

# test\_clue\_BLL

February 20, 2025

## 1 New Clue

In this notebook, we'll test the new, simplified CLUE implementation. We're not using Bayesian Neural Networks here, so the uncertainty is just the entropy of the classifier.

### 1.1 Setup

Import libraries

```
[2]: import importlib
import models.regene_models as regene_models
importlib.reload(regene_models)
import torch
import torch.nn as nn
import torch.optim as optim
import torchvision
import torchvision.transforms as transforms
import matplotlib.pyplot as plt
import numpy as np
import os
import clue.new_CLUE as new_CLUE
importlib.reload(new_CLUE)
import models.BLL
import models.mnist_classifier_BLL
```

Set the configuration

```
[46]: # 1. Configuration
class Config:
    # Data
    train = False    # Evaluate on validation set every epoch
    latent_dim = 256

    # Hardware
    device = 'cuda' if torch.cuda.is_available() \
    else 'mps' if torch.backends.mps.is_available() \
    else 'cpu'

cfg = Config()
```

Load the Datasets

```
[4]: # Load the MNIST dataset
transform = transforms.Compose([transforms.ToTensor()])
trainset = torchvision.datasets.MNIST(root='../data', train=True,
    ↳download=True, transform=transform)
testset = torchvision.datasets.MNIST(root='../data', train=False,
    ↳download=True, transform=transform)

trainloader = torch.utils.data.DataLoader(trainset, batch_size=64,
    ↳shuffle=True, num_workers=2)
testloader = torch.utils.data.DataLoader(testset, batch_size=64, shuffle=False,
    ↳num_workers=2)
```

Create a models directory if it doesn't exist

```
[6]: # Create models directory if it doesn't exist
os.makedirs('../model_saves', exist_ok=True)
model_saves_dir = '../model_saves'
```

## 1.2 Prepare the Backbone and Decoder

We'll be testing the CLUE implementation on the BLL model. We first need load (or train) the decoder.

### 1.2.1 Load the models

We load the backbone classifier

```
[8]: importlib.reload(models.mnist_classifier_BLL) # Reload the module
from models.mnist_classifier_BLL import MNISTClassifierBLL # Import the class

backbone = MNISTClassifierBLL(device=cfg.device)
print(f"Backbone will run on: {cfg.device}")
```

Backbone will run on: mps

Load weights

```
[9]: backbone.load_weights(model_saves_dir + '/mnist_backbone_models/'
    ↳backbone_best_12_epochs.pt')
```

```
[load_weights] Loaded backbone weights from
../model_saves/mnist_backbone_models/backbone_best_12_epochs.pt

/Users/conor/Documents/College terms/College/Thesis/Thesis_Code_Minimised/MyImplementation/models/mnist_classifier_BLL.py:47: FutureWarning: You are using
`torch.load` with `weights_only=False` (the current default value), which uses
the default pickle module implicitly. It is possible to construct malicious
pickle data which will execute arbitrary code during unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for
```

more details). In a future release, the default value for `weights\_only` will be flipped to `True`. This limits the functions that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via `torch.serialization.add\_safe\_globals`. We recommend you start setting `weights\_only=True` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

```
state_dict = torch.load(path, map_location=self.device)
```

Next, define the decoder

```
[13]: decoder = regene_models.Decoder(latent_dim=latent_dim, device=device)
```

Train it if you want

```
[ ]: if cfg.train:
    decoder.train_decoder(trainloader, backbone, num_epochs=12, lr=0.001)
    torch.save(decoder.state_dict(), os.path.join(model_saves_dir, 'decoder.BLL.
    .pth'))
```

```
-----
KeyboardInterrupt                                Traceback (most recent call last)
Cell In[11], line 1
----> 1 decoder.train_decoder(trainloader, backbone, num_epochs=12, lr=0.001)
      2 torch.save(decoder.state_dict(), os.path.join(model_saves_dir,
      .pth'))

File ~/Documents/College terms/College/Thesis/Thesis_Code_Minimised/
MyImplementation/models/regene_models.py:96, in Decoder.train_decoder(self,
train_loader, classifier, num_epochs, lr)
    93 reconstruction_loss = nn.MSELoss()
    95 for epoch in range(num_epochs):
--> 96     for images, _ in train_loader:
    97         images = images.to(self.device)
    98         z, _ = classifier(images)

File ~/Documents/College terms/College/Thesis/Thesis_Code_Minimised/thesis-venv
lib/python3.9/site-packages/torch/utils/data/dataloader.py:701, in
_BaseDataLoaderIter.__next__(self)
    698 if self._sampler_iter is None:
    699     # TODO(https://github.com/pytorch/pytorch/issues/76750)
    700     self._reset() # type: ignore[call-arg]
--> 701 data = self._next_data()
    702 self._num_yielded += 1
    703 if (
    704     self._dataset_kind == _DatasetKind.Iterable
    705     and self._IterableDataset_len_called is not None
    706     and self._num_yielded > self._IterableDataset_len_called
```

707 ):

```
File ~/Documents/College terms/College/Thesis/Thesis_Code_Minimised/thesis-venv
↳ lib/python3.9/site-packages/torch/utils/data/dataloader.py:1448, in
↳ _MultiProcessingDataLoaderIter._next_data(self)
    1445     return self._process_data(data)
    1447     assert not self._shutdown and self._tasks_outstanding > 0
-> 1448     idx, data = self._get_data()
    1449     self._tasks_outstanding -= 1
    1450     if self._dataset_kind == _DatasetKind.Iterable:
    1451         # Check for _IterableDatasetStopIteration
```

```
File ~/Documents/College terms/College/Thesis/Thesis_Code_Minimised/thesis-venv
↳ lib/python3.9/site-packages/torch/utils/data/dataloader.py:1412, in
↳ _MultiProcessingDataLoaderIter._get_data(self)
    1408     # In this case, `self._data_queue` is a `queue.Queue`,. But we don't
    1409     # need to call `.task_done()` because we don't use `.join()`.
    1410 else:
    1411     while True:
-> 1412         success, data = self._try_get_data()
    1413         if success:
    1414             return data
```

```
File ~/Documents/College terms/College/Thesis/Thesis_Code_Minimised/thesis-venv
↳ lib/python3.9/site-packages/torch/utils/data/dataloader.py:1243, in
↳ _MultiProcessingDataLoaderIter._try_get_data(self, timeout)
    1230 def _try_get_data(self, timeout=_utils.MP_STATUS_CHECK_INTERVAL):
    1231     # Tries to fetch data from `self._data_queue` once for a given
↳ timeout.
    1232     # This can also be used as inner loop of fetching without timeout,
↳ with
    (...
    1240     # Returns a 2-tuple:
    1241     # (bool: whether successfully get data, any: data if successful
↳ else None)
    1242     try:
-> 1243         data = self._data_queue.get(timeout=timeout)
    1244         return (True, data)
    1245     except Exception as e:
    1246         # At timeout and error, we manually check whether any worker ha
    1247         # failed. Note that this is the only mechanism for Windows to
↳ detect
    1248         # worker failures.
```

```
File /Library/Developer/CommandLineTools/Library/Frameworks/Python3.framework/
↳ Versions/3.9/lib/python3.9/multiprocessing/queues.py:113, in Queue.get(self,
↳ block, timeout)
    111 if block:
    112     timeout = deadline - time.monotonic()
```

```
--> 113     if not self._poll(timeout):
114         raise Empty
115 elif not self._poll():
```

```
File /Library/Developer/CommandLineTools/Library/Frameworks/Python3.framework/
↳Versions/3.9/lib/python3.9/multiprocessing/connection.py:262, in
↳_ConnectionBase.poll(self, timeout)
260 self._check_closed()
261 self._check_readable()
--> 262 return self._poll(timeout)
```

```
File /Library/Developer/CommandLineTools/Library/Frameworks/Python3.framework/
↳Versions/3.9/lib/python3.9/multiprocessing/connection.py:429, in Connection.
↳_poll(self, timeout)
428 def _poll(self, timeout):
--> 429     r = wait([self], timeout)
430     return bool(r)
```

```
File /Library/Developer/CommandLineTools/Library/Frameworks/Python3.framework/
↳Versions/3.9/lib/python3.9/multiprocessing/connection.py:936, in
↳wait(object_list, timeout)
933     deadline = time.monotonic() + timeout
935 while True:
--> 936     ready = selector.select(timeout)
937     if ready:
938         return [key.fileobj for (key, events) in ready]
```

```
File /Library/Developer/CommandLineTools/Library/Frameworks/Python3.framework/
↳Versions/3.9/lib/python3.9/selectors.py:416, in _PollLikeSelector.select(self
↳timeout)
414 ready = []
415 try:
--> 416     fd_event_list = self._selector.poll(timeout)
417 except InterruptedError:
418     return ready
```

KeyboardInterrupt:

...or load it

```
[14]: decoder.load_state_dict(torch.load(os.path.join(model_saves_dir, 'decoder_BLL.
↳pth'))))
```

/var/folders/tb/ccwl9r592hn9v\_xpq9s1bzlr0000gn/T/ipykernel\_91303/3334151885.py:1  
: FutureWarning: You are using `torch.load` with `weights\_only=False` (the  
current default value), which uses the default pickle module implicitly. It is  
possible to construct malicious pickle data which will execute arbitrary code  
during unpickling (See  
<https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models> for

more details). In a future release, the default value for ``weights_only`` will be flipped to ``True``. This limits the functions that could be executed during unpickling. Arbitrary objects will no longer be allowed to be loaded via this mode unless they are explicitly allowlisted by the user via ``torch.serialization.add_safe_globals``. We recommend you start setting ``weights_only=True`` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

```
decoder.load_state_dict(torch.load(os.path.join(model_saves_dir,
'decoder_BLL.pth')))
```

[14]: <All keys matched successfully>

### 1.3 Load the BLL classifier

Define the model

```
[15]: from models.BLL import BayesianLastLayerCat
importlib.reload(models.BLL)

bll = BayesianLastLayerCat(
    backbone=backbone,
    input_dim=256,  # Matches backbone's encoder output
    output_dim=10,  # MNIST classes
    N_train=len(trainset),
    lr=0.001,
    base_C=1.0,
    gauss_sig=0.01,
    device=cfg.device
)
```

Load the model

```
[16]: bll.load_checkpoint(model_saves_dir + '/mnist_bll_models/
↳BLL_checkpoint_100_epochs.pth')
```

```
[load_checkpoint] Loaded checkpoint from
../model_saves/mnist_bll_models/BLL_checkpoint_100_epochs.pth

/Users/conor/Documents/College
terms/College/Thesis/Thesis_Code_Minimised/MyImplementation/models/BLL.py:313:
FutureWarning: You are using `torch.load` with `weights_only=False` (the current
default value), which uses the default pickle module implicitly. It is possible
to construct malicious pickle data which will execute arbitrary code during
unpickling (See
https://github.com/pytorch/pytorch/blob/main/SECURITY.md#untrusted-models for
more details). In a future release, the default value for `weights_only` will be
flipped to `True`. This limits the functions that could be executed during
unpickling. Arbitrary objects will no longer be allowed to be loaded via this
mode unless they are explicitly allowlisted by the user via
```

``torch.serialization.add_safe_globals``. We recommend you start setting ``weights_only=True`` for any use case where you don't have full control of the loaded file. Please open an issue on GitHub for any issues related to this experimental feature.

```
checkpoint = torch.load(path, map_location=self.device)
```

## 1.4 Get uncertain images

Get the most uncertain images, we need a non-shuffled loader for this.

```
[17]: # Create a non-shuffled loader for uncertainty calculation
eval_loader = torch.utils.data.DataLoader(testset, batch_size=64,
    ↪shuffle=False, num_workers=2)

# Get uncertainty scores for all test set data points
uncertainties = []
indices = []

bll.eval()
with torch.no_grad():
    for i, (images, _) in enumerate(eval_loader):
        images = images.to(cfg.device)
        # Get predictions and uncertainties using BLL model
        _, uncertainty_dict = bll.predict_with_uncertainty(images)

        # Store total uncertainties and indices
        uncertainties.extend(uncertainty_dict['total_entropy'].cpu().numpy())
        indices.extend(range(i*eval_loader.batch_size, min((i+1)*eval_loader.
    ↪batch_size, len(testset))))

# Convert to numpy arrays
uncertainties = np.array(uncertainties)
indices = np.array(indices)

# Sort by uncertainty (descending order)
sorted_idx = np.argsort(-uncertainties)
sorted_uncertainties = uncertainties[sorted_idx]
sorted_data_indices = indices[sorted_idx]
```

We then plot the most uncertain predictions on the test set.

```
[18]: import matplotlib.pyplot as plt
import torch

def plot_most_uncertain(testset, sorted_data_indices, sorted_uncertainties,
    ↪n_plot=5):
    """
    Plots the top-n most uncertain predictions from the training set.
```

```

    Args:
        testset (torch.utils.data.Dataset): Dataset that returns (image, label)
        ↪ samples.
        sorted_data_indices (np.ndarray): Array of indices sorted in descending
        ↪ order by uncertainty.
        sorted_uncertainties (np.ndarray): Array of uncertainty (entropy)
        ↪ values, sorted to match sorted_data_indices.
        n_plot (int): Number of images to plot.
    """
    # Calculate number of rows needed
    images_per_row = 10
    n_rows = (n_plot - 1) // images_per_row + 1

    plt.figure(figsize=(15, 3 * n_rows))
    for i in range(n_plot):
        data_idx = sorted_data_indices[i]
        image, _ = testset[data_idx]

        # If image is a torch.Tensor, convert it to a NumPy array.
        if torch.is_tensor(image):
            image = image.cpu().detach().numpy()
            # If the image has one channel [1, H, W], squeeze out the channel
            ↪ dimension.
            if image.ndim == 3 and image.shape[0] == 1:
                image = image.squeeze(0)

        row = i // images_per_row
        col = i % images_per_row
        plt.subplot(n_rows, images_per_row, i + 1)
        plt.imshow(image, cmap='gray')
        plt.title(f"Entropy: {sorted_uncertainties[i]:.2f}")
        plt.axis("off")

    plt.suptitle("Most Uncertain Predictions")
    plt.show()

```

```

[19]: # Plot the most uncertain predictions
plot_most_uncertain(testset, sorted_data_indices, sorted_uncertainties,
    ↪ n_plot=20)

```



#### Most Uncertain Predictions

Entropy: 1.71 Entropy: 1.56 Entropy: 1.52 Entropy: 1.39 Entropy: 1.32 Entropy: 1.28 Entropy: 1.24 Entropy: 1.22 Entropy: 1.20 Entropy: 1.19



Entropy: 1.16 Entropy: 1.13 Entropy: 1.12 Entropy: 1.09 Entropy: 1.08 Entropy: 1.06 Entropy: 1.06 Entropy: 1.05 Entropy: 1.04 Entropy: 1.03



#### 1.4.1 Test new CLUE implementation

Now we test the “new” CLUE implementation, which accepts only a classifier head, directly optimising the latent code. There is no need for a decoder at each step (and therefore inside the CLUE method). Once the latent code is optimised, we pass it through the decoder to get a reconstruction from this notebook.

The first test is just with one image

```
[ ]: # Get the most uncertain image and its latent representation
most_uncertain_idx = sorted_data_indices[3]
uncertain_image, _ = testset[most_uncertain_idx]
uncertain_image = uncertain_image.to(cfg.device).unsqueeze(0) # Add batch
                        ↪ dimension

# Get its latent representation
bll.eval()
with torch.no_grad():
    z0 = bll.extract_features(uncertain_image)

# Initialize CLUE
clue = new_CLUE.NewCLUE(
    classifier=bll,
    z0=z0,
    uncertainty_weight=1.0,
    distance_weight=0.01,
    lr=0.1,
    device=device,
    bayesian=True
)

# Optimize to find explanation
```

```

z_explained = clue.optimize(steps=400)

# Generate reconstructions using decoder
with torch.no_grad():
    # Original reconstruction
    original_recon = decoder(z0)
    # CLUE reconstruction
    clue_recon = decoder(z_explained)

    # Get predictions and uncertainties from latent codes
    original_probs_latent = bll.sample_predict_z(z0) # [n_ensemble, batch,
    ↪classes]
    explained_probs_latent = bll.sample_predict_z(z_explained)

    # Get predictions from full classifier workflow on reconstructions
    original_probs_recon = bll.sample_predict(original_recon)
    explained_probs_recon = bll.sample_predict(clue_recon)

    # Calculate mean probabilities and entropies for latent predictions
    original_mean_probs_latent = original_probs_latent.mean(dim=0) # [batch,
    ↪classes]
    explained_mean_probs_latent = explained_probs_latent.mean(dim=0)

    original_entropy_latent = -(original_mean_probs_latent * torch.
    ↪log(original_mean_probs_latent + 1e-10)).sum(dim=1)
    explained_entropy_latent = -(explained_mean_probs_latent * torch.
    ↪log(explained_mean_probs_latent + 1e-10)).sum(dim=1)

    # Calculate mean probabilities and entropies for reconstruction predictions
    original_mean_probs_recon = original_probs_recon.mean(dim=0)
    explained_mean_probs_recon = explained_probs_recon.mean(dim=0)

    original_entropy_recon = -(original_mean_probs_recon * torch.
    ↪log(original_mean_probs_recon + 1e-10)).sum(dim=1)
    explained_entropy_recon = -(explained_mean_probs_recon * torch.
    ↪log(explained_mean_probs_recon + 1e-10)).sum(dim=1)

    # Calculate difference between reconstructions and amplify it
    diff = torch.abs(original_recon - clue_recon) * 3.0 # Amplify differences
    ↪by 3x

# Plot results
plt.figure(figsize=(15, 5))

plt.subplot(141)
plt.imshow(uncertain_image[0,0].cpu(), cmap='gray')

```

```

plt.title(f'Original Image\nLatent Entropy: {original_entropy_latent[0]:.3f}\nRecon Entropy: {original_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(142)
plt.imshow(original_recon[0,0].cpu().detach(), cmap='gray')
plt.title(f'Original Reconstruction\nLatent Entropy: {original_entropy_latent[0]:.3f}\nRecon Entropy: {original_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(143)
plt.imshow(clue_recon[0,0].cpu().detach(), cmap='gray')
plt.title(f'CLUE Reconstruction\nLatent Entropy: {explained_entropy_latent[0]:.3f}\nRecon Entropy: {explained_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(144)
plt.imshow(diff[0,0].cpu().detach(), cmap='hot', vmin=0, vmax=1) # Set fixed scale for better visibility
plt.title('Amplified Difference Map\n(Original vs CLUE)')
plt.colorbar()
plt.axis('off')

plt.tight_layout()
plt.show()

```

```

Step 00: Loss: 1.3935, Total Entropy: 1.3935, Epistemic Entropy: 0.0156,
Aleatoric Entropy: 1.3778, Distance: 0.0000
Step 01: Loss: 0.5657, Total Entropy: 0.5497, Epistemic Entropy: 0.0048,
Aleatoric Entropy: 0.5449, Distance: 1.6000
Step 02: Loss: 0.1234, Total Entropy: 0.0947, Epistemic Entropy: 0.0005,
Aleatoric Entropy: 0.0942, Distance: 2.8708
Step 03: Loss: 0.0565, Total Entropy: 0.0162, Epistemic Entropy: 0.0001,
Aleatoric Entropy: 0.0161, Distance: 4.0290
Step 04: Loss: 0.0536, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0036, Distance: 5.0058
Step 05: Loss: 0.0593, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0010, Distance: 5.8283
Step 06: Loss: 0.0656, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0003, Distance: 6.5270
Step 07: Loss: 0.0714, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0001, Distance: 7.1248
Step 08: Loss: 0.0765, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0001, Distance: 7.6391
Step 09: Loss: 0.0809, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0000, Distance: 8.0827

```

Step 10: Loss: 0.0847, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.4659  
Step 11: Loss: 0.0880, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.7965  
Step 12: Loss: 0.0908, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0813  
Step 13: Loss: 0.0933, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3257  
Step 14: Loss: 0.0953, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5342  
Step 15: Loss: 0.0971, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7106  
Step 16: Loss: 0.0986, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8585  
Step 17: Loss: 0.0998, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9806  
Step 18: Loss: 0.1008, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.0796  
Step 19: Loss: 0.1016, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1577  
Step 20: Loss: 0.1022, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2168  
Step 21: Loss: 0.1026, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2589  
Step 22: Loss: 0.1029, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2853  
Step 23: Loss: 0.1030, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2977  
Step 24: Loss: 0.1030, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2972  
Step 25: Loss: 0.1029, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2851  
Step 26: Loss: 0.1026, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2622  
Step 27: Loss: 0.1023, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2297  
Step 28: Loss: 0.1019, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1883  
Step 29: Loss: 0.1014, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1388  
Step 30: Loss: 0.1008, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.0819  
Step 31: Loss: 0.1002, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.0182  
Step 32: Loss: 0.0995, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9484  
Step 33: Loss: 0.0987, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8728

Step 34: Loss: 0.0979, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7922  
Step 35: Loss: 0.0971, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7067  
Step 36: Loss: 0.0962, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6169  
Step 37: Loss: 0.0952, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5232  
Step 38: Loss: 0.0943, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4258  
Step 39: Loss: 0.0933, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3251  
Step 40: Loss: 0.0922, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2213  
Step 41: Loss: 0.0912, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1148  
Step 42: Loss: 0.0901, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0056  
Step 43: Loss: 0.0889, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.8942  
Step 44: Loss: 0.0878, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.7807  
Step 45: Loss: 0.0867, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6652  
Step 46: Loss: 0.0855, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.5479  
Step 47: Loss: 0.0843, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.4290  
Step 48: Loss: 0.0831, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.3087  
Step 49: Loss: 0.0819, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1870  
Step 50: Loss: 0.0807, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.0641  
Step 51: Loss: 0.0794, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.9402  
Step 52: Loss: 0.0782, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.8152  
Step 53: Loss: 0.0769, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.6894  
Step 54: Loss: 0.0757, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.5628  
Step 55: Loss: 0.0744, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.4354  
Step 56: Loss: 0.0731, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.3075  
Step 57: Loss: 0.0718, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.1790

Step 58: Loss: 0.0706, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0500  
 Step 59: Loss: 0.0693, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9207  
 Step 60: Loss: 0.0680, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7910  
 Step 61: Loss: 0.0667, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6611  
 Step 62: Loss: 0.0654, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5310  
 Step 63: Loss: 0.0642, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4008  
 Step 64: Loss: 0.0629, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2707  
 Step 65: Loss: 0.0616, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1406  
 Step 66: Loss: 0.0604, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.0108  
 Step 67: Loss: 0.0591, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8812  
 Step 68: Loss: 0.0579, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.7521  
 Step 69: Loss: 0.0567, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.6236  
 Step 70: Loss: 0.0556, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.4958  
 Step 71: Loss: 0.0544, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.3690  
 Step 72: Loss: 0.0533, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.2434  
 Step 73: Loss: 0.0523, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.1192  
 Step 74: Loss: 0.0513, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.9967  
 Step 75: Loss: 0.0504, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.8764  
 Step 76: Loss: 0.0496, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.7587  
 Step 77: Loss: 0.0489, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.6441  
 Step 78: Loss: 0.0482, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.5331  
 Step 79: Loss: 0.0477, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.4265  
 Step 80: Loss: 0.0473, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0041, Distance: 4.3250  
 Step 81: Loss: 0.0471, Total Entropy: 0.0048, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0048, Distance: 4.2295

Step 82: Loss: 0.0469, Total Entropy: 0.0055, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0055, Distance: 4.1409  
Step 83: Loss: 0.0469, Total Entropy: 0.0063, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0063, Distance: 4.0600  
Step 84: Loss: 0.0469, Total Entropy: 0.0071, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0070, Distance: 3.9879  
Step 85: Loss: 0.0470, Total Entropy: 0.0078, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0078, Distance: 3.9253  
Step 86: Loss: 0.0471, Total Entropy: 0.0084, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0084, Distance: 3.8730  
Step 87: Loss: 0.0472, Total Entropy: 0.0089, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0089, Distance: 3.8316  
Step 88: Loss: 0.0473, Total Entropy: 0.0093, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0092, Distance: 3.8013  
Step 89: Loss: 0.0473, Total Entropy: 0.0095, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0094, Distance: 3.7819  
Step 90: Loss: 0.0472, Total Entropy: 0.0095, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0095, Distance: 3.7732  
Step 91: Loss: 0.0471, Total Entropy: 0.0094, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0093, Distance: 3.7743  
Step 92: Loss: 0.0470, Total Entropy: 0.0091, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0091, Distance: 3.7841  
Step 93: Loss: 0.0468, Total Entropy: 0.0088, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0087, Distance: 3.8014  
Step 94: Loss: 0.0466, Total Entropy: 0.0084, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0084, Distance: 3.8245  
Step 95: Loss: 0.0465, Total Entropy: 0.0080, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0079, Distance: 3.8520  
Step 96: Loss: 0.0464, Total Entropy: 0.0075, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0075, Distance: 3.8824  
Step 97: Loss: 0.0463, Total Entropy: 0.0071, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0071, Distance: 3.9141  
Step 98: Loss: 0.0462, Total Entropy: 0.0067, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0067, Distance: 3.9459  
Step 99: Loss: 0.0462, Total Entropy: 0.0064, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9766  
Step 100: Loss: 0.0461, Total Entropy: 0.0061, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0061, Distance: 4.0055  
Step 101: Loss: 0.0461, Total Entropy: 0.0058, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0058, Distance: 4.0316  
Step 102: Loss: 0.0461, Total Entropy: 0.0056, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0056, Distance: 4.0546  
Step 103: Loss: 0.0461, Total Entropy: 0.0054, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0054, Distance: 4.0739  
Step 104: Loss: 0.0462, Total Entropy: 0.0053, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0052, Distance: 4.0896  
Step 105: Loss: 0.0462, Total Entropy: 0.0052, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0051, Distance: 4.1014

Step 106: Loss: 0.0462, Total Entropy: 0.0051, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0051, Distance: 4.1094  
Step 107: Loss: 0.0462, Total Entropy: 0.0050, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0050, Distance: 4.1137  
Step 108: Loss: 0.0462, Total Entropy: 0.0050, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0050, Distance: 4.1146  
Step 109: Loss: 0.0462, Total Entropy: 0.0050, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0050, Distance: 4.1124  
Step 110: Loss: 0.0462, Total Entropy: 0.0051, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0051, Distance: 4.1074  
Step 111: Loss: 0.0461, Total Entropy: 0.0051, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0051, Distance: 4.1000  
Step 112: Loss: 0.0461, Total Entropy: 0.0052, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0052, Distance: 4.0906  
Step 113: Loss: 0.0461, Total Entropy: 0.0053, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0053, Distance: 4.0795  
Step 114: Loss: 0.0461, Total Entropy: 0.0054, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0054, Distance: 4.0674  
Step 115: Loss: 0.0461, Total Entropy: 0.0055, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0055, Distance: 4.0545  
Step 116: Loss: 0.0460, Total Entropy: 0.0056, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0056, Distance: 4.0412  
Step 117: Loss: 0.0460, Total Entropy: 0.0057, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0057, Distance: 4.0280  
Step 118: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0058, Distance: 4.0153  
Step 119: Loss: 0.0460, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0060, Distance: 4.0032  
Step 120: Loss: 0.0460, Total Entropy: 0.0061, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0061, Distance: 3.9922  
Step 121: Loss: 0.0460, Total Entropy: 0.0062, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0062, Distance: 3.9823  
Step 122: Loss: 0.0460, Total Entropy: 0.0063, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0062, Distance: 3.9739  
Step 123: Loss: 0.0460, Total Entropy: 0.0063, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0063, Distance: 3.9670  
Step 124: Loss: 0.0460, Total Entropy: 0.0064, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9616  
Step 125: Loss: 0.0460, Total Entropy: 0.0064, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9579  
Step 126: Loss: 0.0460, Total Entropy: 0.0064, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9557  
Step 127: Loss: 0.0460, Total Entropy: 0.0065, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9549  
Step 128: Loss: 0.0460, Total Entropy: 0.0064, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9555  
Step 129: Loss: 0.0460, Total Entropy: 0.0064, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9573



Step 130: Loss: 0.0460, Total Entropy: 0.0064, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0064, Distance: 3.9602  
Step 131: Loss: 0.0460, Total Entropy: 0.0063, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0063, Distance: 3.9638  
Step 132: Loss: 0.0460, Total Entropy: 0.0063, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0063, Distance: 3.9681  
Step 133: Loss: 0.0460, Total Entropy: 0.0063, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0062, Distance: 3.9729  
Step 134: Loss: 0.0460, Total Entropy: 0.0062, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0062, Distance: 3.9778  
Step 135: Loss: 0.0460, Total Entropy: 0.0061, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0061, Distance: 3.9828  
Step 136: Loss: 0.0460, Total Entropy: 0.0061, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0061, Distance: 3.9877  
Step 137: Loss: 0.0460, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0060, Distance: 3.9923  
Step 138: Loss: 0.0460, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0060, Distance: 3.9966  
Step 139: Loss: 0.0460, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0003  
Step 140: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0035  
Step 141: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0061  
Step 142: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0081  
Step 143: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0094  
Step 144: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0058, Distance: 4.0101  
Step 145: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0058, Distance: 4.0102  
Step 146: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0058, Distance: 4.0098  
Step 147: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0090  
Step 148: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0077  
Step 149: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0062  
Step 150: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0044  
Step 151: Loss: 0.0460, Total Entropy: 0.0059, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0025  
Step 152: Loss: 0.0460, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 4.0005  
Step 153: Loss: 0.0460, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0059, Distance: 3.9985

[illegible]



[illegible]

[illegible]

[illegible]



[illegible]

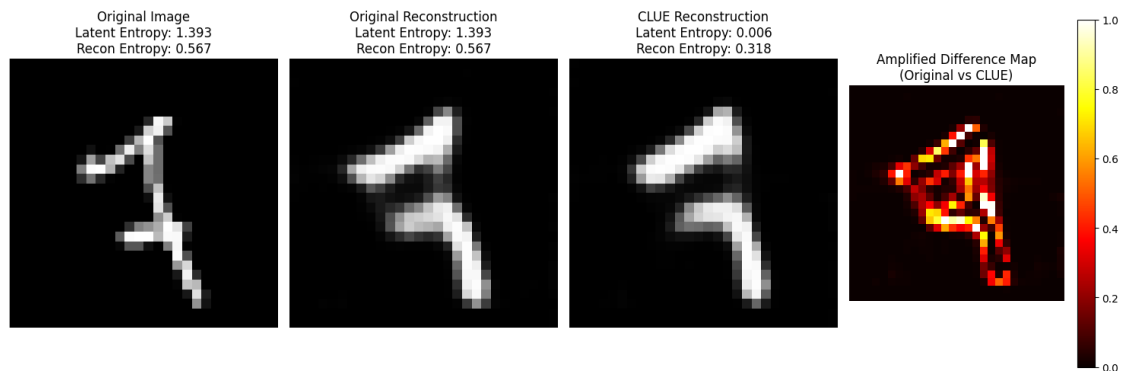




[illegible]

[illegible]

Step 394: Loss: 0.0459, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0060, Distance: 3.9959  
 Step 395: Loss: 0.0459, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0060, Distance: 3.9959  
 Step 396: Loss: 0.0459, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0060, Distance: 3.9959  
 Step 397: Loss: 0.0459, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0060, Distance: 3.9959  
 Step 398: Loss: 0.0459, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0060, Distance: 3.9959  
 Step 399: Loss: 0.0459, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0060, Distance: 3.9959



Below, we plot the t-SNE of the latent space of the test set. We can see that the optimised latent code is close to the original latent code, but not identical.

```

[39]: # Get latent codes for 500 training images to create TSNE visualization
latent_codes = []
labels_list = []
with torch.no_grad():
    for i, (images, labels) in enumerate(testloader):
        if i >= 500/images.shape[0]: # Stop after ~500 images
            break
        images = images.to(device)
        z, _ = backbone(images) # Changed classifier to backbone
        latent_codes.append(z.cpu())
        labels_list.append(labels)
latent_codes = torch.cat(latent_codes, dim=0)
labels = torch.cat(labels_list, dim=0)

# Add z0 and z_explained to the latent codes
all_latents = torch.cat([latent_codes, z0.cpu(), z_explained.cpu()], dim=0)

# Perform t-SNE
  
```

```

from sklearn.manifold import TSNE
tsne = TSNE(n_components=2, random_state=42)
latents_2d = tsne.fit_transform(all_latents.numpy())

# Plot t-SNE
plt.figure(figsize=(10, 8))

# Create scatter plot for each class
testing_latents_2d = latents_2d[:-2]
for i in range(10):
    mask = labels == i
    plt.scatter(testing_latents_2d[mask, 0], testing_latents_2d[mask, 1],
                alpha=0.5, label=f'Class {i}', s=20) # Reduced point size to 20

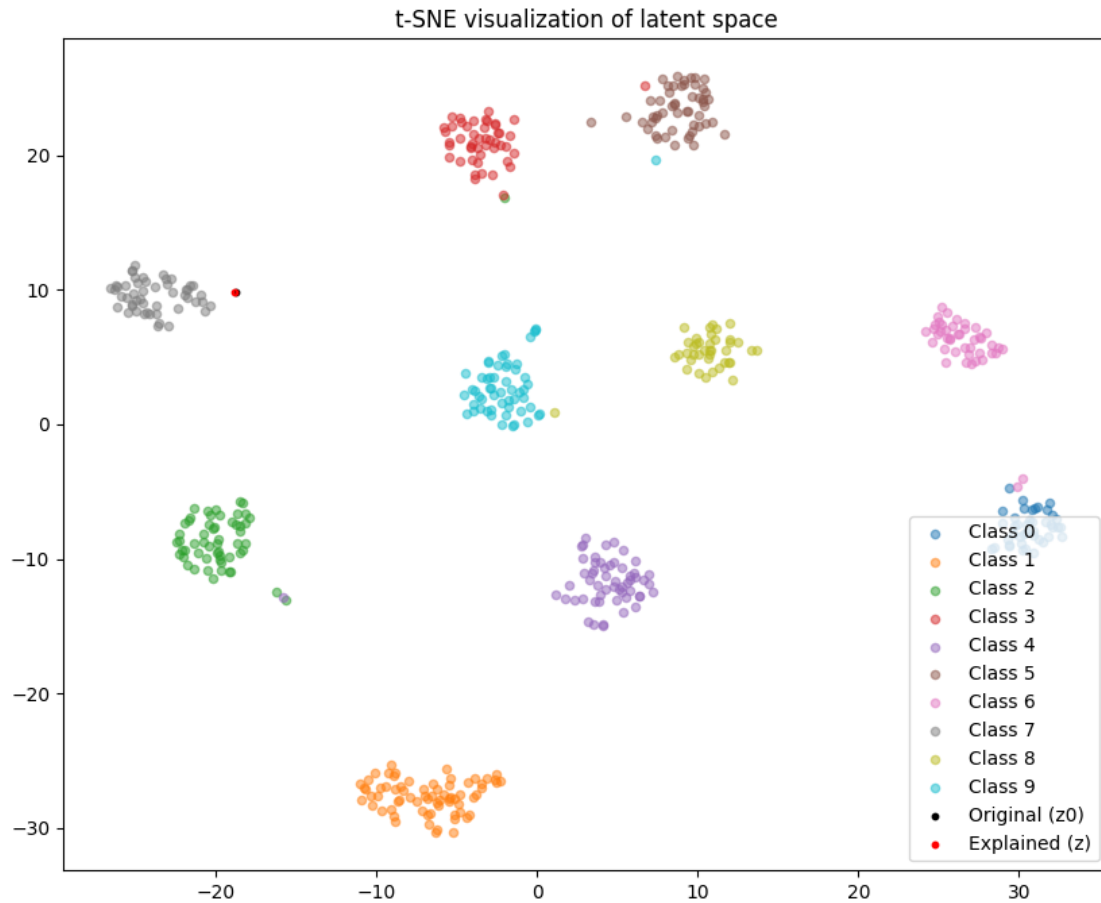
# Plot original and explained points
plt.scatter(latents_2d[-2, 0], latents_2d[-2, 1], c='black', s=10,
            label='Original (z0)') # Increased point size
plt.scatter(latents_2d[-1, 0], latents_2d[-1, 1], c='red', s=10,
            label='Explained (z)') # Increased point size
plt.plot([latents_2d[-2, 0], latents_2d[-1, 0]],
         [latents_2d[-2, 1], latents_2d[-1, 1]],
         'k--', alpha=0.5)

# Calculate and print distance between original and explained points in t-SNE
# space
tsne_distance = np.sqrt(np.sum((latents_2d[-2] - latents_2d[-1])**2))
print(f"\nDistance between original and explained points in t-SNE space:
      {tsne_distance:.3f}")

plt.title('t-SNE visualization of latent space')
plt.legend()
plt.show()

```

Distance between original and explained points in t-SNE space: 0.081



Let's test clue with a batch of images

```
[47]: # Get 50 most uncertain images
uncertain_indices = sorted_data_indices[:50]

# Initialize lists to store metrics
latent_entropy_reductions = []
recon_entropy_reductions = []
distances = []

# Process each uncertain image
for idx in uncertain_indices:
    uncertain_image, _ = testset[idx]
    uncertain_image = uncertain_image.to(cfg.device).unsqueeze(0) # Add batch_
    ↪ dimension

    # Get latent representation
    bll.eval()
    with torch.no_grad():
```

```

    z0 = bll.extract_features(uncertain_image)

    # Initialize CLUE
    clue = new_CLUE.NewCLUE(
        classifier=bll,
        z0=z0,
        uncertainty_weight=1.0,
        distance_weight=0.005,
        lr=0.1,
        device=cfg.device,
        bayesian=True
    )

    # Optimize to find explanation
    z_explained = clue.optimize(steps=200)

    # Calculate distance between original and explained latent codes
    distance = torch.norm(z0 - z_explained).item()
    distances.append(distance)

    # Generate reconstructions using decoder
    with torch.no_grad():
        # Original reconstruction
        original_recon = decoder(z0)
        # CLUE reconstruction
        clue_recon = decoder(z_explained)

        # Get predictions and uncertainties from latent codes
        original_probs_latent = bll.sample_predict_z(z0)
        explained_probs_latent = bll.sample_predict_z(z_explained)

        # Get predictions from full classifier workflow on reconstructions
        original_probs_recon = bll.sample_predict(original_recon)
        explained_probs_recon = bll.sample_predict(clue_recon)

        # Calculate mean probabilities and entropies for latent predictions
        original_mean_probs_latent = original_probs_latent.mean(dim=0)
        explained_mean_probs_latent = explained_probs_latent.mean(dim=0)

        original_entropy_latent = -(original_mean_probs_latent * torch.
↪ log(original_mean_probs_latent + 1e-10)).sum(dim=1)
        explained_entropy_latent = -(explained_mean_probs_latent * torch.
↪ log(explained_mean_probs_latent + 1e-10)).sum(dim=1)

        # Calculate mean probabilities and entropies for reconstruction
↪ predictions
        original_mean_probs_recon = original_probs_recon.mean(dim=0)

```

```

    explained_mean_probs_recon = explained_probs_recon.mean(dim=0)

    original_entropy_recon = -(original_mean_probs_recon * torch.
    ↪log(original_mean_probs_recon + 1e-10)).sum(dim=1)
    explained_entropy_recon = -(explained_mean_probs_recon * torch.
    ↪log(explained_mean_probs_recon + 1e-10)).sum(dim=1)

    # Calculate entropy reductions
    latent_entropy_reduction = (original_entropy_latent -
    ↪explained_entropy_latent).item()
    recon_entropy_reduction = (original_entropy_recon -
    ↪explained_entropy_recon).item()

    latent_entropy_reductions.append(latent_entropy_reduction)
    recon_entropy_reductions.append(recon_entropy_reduction)

# Calculate averages
avg_latent_entropy_reduction = np.mean(latent_entropy_reductions)
avg_recon_entropy_reduction = np.mean(recon_entropy_reductions)
avg_distance = np.mean(distances)

print(f"\nResults over {len(uncertain_indices)} most uncertain images:")
print(f"Average latent entropy reduction: {avg_latent_entropy_reduction:.3f}")
print(f"Average reconstruction entropy reduction: {avg_recon_entropy_reduction:.
    ↪3f}")
print(f"Average distance between original and explained latents: {avg_distance:.
    ↪3f}")

```

```

Step 00: Loss: 1.7058, Total Entropy: 1.7058, Epistemic Entropy: 0.0355,
Aleatoric Entropy: 1.6703, Distance: 0.0000
Step 01: Loss: 1.0065, Total Entropy: 0.9985, Epistemic Entropy: 0.0204,
Aleatoric Entropy: 0.9782, Distance: 1.6000
Step 02: Loss: 0.2621, Total Entropy: 0.2484, Epistemic Entropy: 0.0034,
Aleatoric Entropy: 0.2449, Distance: 2.7443
Step 03: Loss: 0.0590, Total Entropy: 0.0393, Epistemic Entropy: 0.0003,
Aleatoric Entropy: 0.0390, Distance: 3.9371
Step 04: Loss: 0.0322, Total Entropy: 0.0073, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0072, Distance: 4.9978
Step 05: Loss: 0.0312, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0017, Distance: 5.9131
Step 06: Loss: 0.0340, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0005, Distance: 6.7045
Step 07: Loss: 0.0371, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0002, Distance: 7.3933
Step 08: Loss: 0.0400, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,
Aleatoric Entropy: 0.0001, Distance: 7.9963
Step 09: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

```



Aleatoric Entropy: 0.0000, Distance: 8.5264  
 Step 10: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9941  
 Step 11: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4074  
 Step 12: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7730  
 Step 13: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0967  
 Step 14: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3829  
 Step 15: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6359  
 Step 16: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8589  
 Step 17: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0550  
 Step 18: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2269  
 Step 19: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3768  
 Step 20: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5068  
 Step 21: Loss: 0.0581, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6187  
 Step 22: Loss: 0.0586, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7142  
 Step 23: Loss: 0.0590, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7947  
 Step 24: Loss: 0.0593, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8615  
 Step 25: Loss: 0.0596, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9159  
 Step 26: Loss: 0.0598, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9590  
 Step 27: Loss: 0.0600, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9917  
 Step 28: Loss: 0.0601, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0149  
 Step 29: Loss: 0.0601, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0294  
 Step 30: Loss: 0.0602, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0360  
 Step 31: Loss: 0.0602, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0354  
 Step 32: Loss: 0.0601, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0281  
 Step 33: Loss: 0.0601, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 12.0147  
 Step 34: Loss: 0.0600, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9958  
 Step 35: Loss: 0.0599, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9718  
 Step 36: Loss: 0.0597, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9431  
 Step 37: Loss: 0.0596, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9102  
 Step 38: Loss: 0.0594, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8733  
 Step 39: Loss: 0.0592, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8329  
 Step 40: Loss: 0.0589, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7892  
 Step 41: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7425  
 Step 42: Loss: 0.0585, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6930  
 Step 43: Loss: 0.0582, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6411  
 Step 44: Loss: 0.0579, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5868  
 Step 45: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5305  
 Step 46: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4722  
 Step 47: Loss: 0.0571, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4121  
 Step 48: Loss: 0.0568, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3505  
 Step 49: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2873  
 Step 50: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2229  
 Step 51: Loss: 0.0558, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1571  
 Step 52: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0903  
 Step 53: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0224  
 Step 54: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9535  
 Step 55: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8838  
 Step 56: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8133  
 Step 57: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.7421  
 Step 58: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6702  
 Step 59: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5977  
 Step 60: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5247  
 Step 61: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4511  
 Step 62: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3771  
 Step 63: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3026  
 Step 64: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2278  
 Step 65: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1526  
 Step 66: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0771  
 Step 67: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0014  
 Step 68: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9253  
 Step 69: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8490  
 Step 70: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7725  
 Step 71: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6958  
 Step 72: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6189  
 Step 73: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5419  
 Step 74: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4647  
 Step 75: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3874  
 Step 76: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3099  
 Step 77: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2324  
 Step 78: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1548  
 Step 79: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0771  
 Step 80: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9993  
 Step 81: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.9215  
 Step 82: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8437  
 Step 83: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7658  
 Step 84: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6879  
 Step 85: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6100  
 Step 86: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5320  
 Step 87: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4541  
 Step 88: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3762  
 Step 89: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2982  
 Step 90: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2204  
 Step 91: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1425  
 Step 92: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0647  
 Step 93: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9869  
 Step 94: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9092  
 Step 95: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8315  
 Step 96: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7539  
 Step 97: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6764  
 Step 98: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5990  
 Step 99: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5216  
 Step 100: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4444  
 Step 101: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3673  
 Step 102: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2902  
 Step 103: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2134  
 Step 104: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1366  
 Step 105: Loss: 0.0354, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 7.0600  
 Step 106: Loss: 0.0350, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9836  
 Step 107: Loss: 0.0346, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9074  
 Step 108: Loss: 0.0342, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8313  
 Step 109: Loss: 0.0339, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7555  
 Step 110: Loss: 0.0335, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6799  
 Step 111: Loss: 0.0331, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6045  
 Step 112: Loss: 0.0328, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5294  
 Step 113: Loss: 0.0324, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4546  
 Step 114: Loss: 0.0321, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3801  
 Step 115: Loss: 0.0317, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3060  
 Step 116: Loss: 0.0314, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2322  
 Step 117: Loss: 0.0310, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1589  
 Step 118: Loss: 0.0307, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.0860  
 Step 119: Loss: 0.0304, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.0136  
 Step 120: Loss: 0.0300, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.9418  
 Step 121: Loss: 0.0297, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.8706  
 Step 122: Loss: 0.0294, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.8000  
 Step 123: Loss: 0.0291, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.7302  
 Step 124: Loss: 0.0289, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.6612  
 Step 125: Loss: 0.0286, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.5931  
 Step 126: Loss: 0.0283, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.5260  
 Step 127: Loss: 0.0281, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.4600  
 Step 128: Loss: 0.0278, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.3951  
 Step 129: Loss: 0.0276, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0010, Distance: 5.3316  
 Step 130: Loss: 0.0274, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.2695  
 Step 131: Loss: 0.0272, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 5.2089  
 Step 132: Loss: 0.0271, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 5.1501  
 Step 133: Loss: 0.0269, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 5.0932  
 Step 134: Loss: 0.0268, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 5.0382  
 Step 135: Loss: 0.0267, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.9855  
 Step 136: Loss: 0.0266, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.9351  
 Step 137: Loss: 0.0265, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.8872  
 Step 138: Loss: 0.0264, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.8419  
 Step 139: Loss: 0.0264, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.7996  
 Step 140: Loss: 0.0263, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.7601  
 Step 141: Loss: 0.0263, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.7238  
 Step 142: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6906  
 Step 143: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6608  
 Step 144: Loss: 0.0263, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6343  
 Step 145: Loss: 0.0262, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.6111  
 Step 146: Loss: 0.0262, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.5913  
 Step 147: Loss: 0.0262, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.5748  
 Step 148: Loss: 0.0262, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.5616  
 Step 149: Loss: 0.0262, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5513  
 Step 150: Loss: 0.0262, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5441  
 Step 151: Loss: 0.0262, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5395  
 Step 152: Loss: 0.0262, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5374  
 Step 153: Loss: 0.0262, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0035, Distance: 4.5376  
 Step 154: Loss: 0.0262, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5399  
 Step 155: Loss: 0.0262, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.5438  
 Step 156: Loss: 0.0261, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.5492  
 Step 157: Loss: 0.0261, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.5558  
 Step 158: Loss: 0.0261, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.5634  
 Step 159: Loss: 0.0261, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.5716  
 Step 160: Loss: 0.0261, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.5802  
 Step 161: Loss: 0.0261, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.5891  
 Step 162: Loss: 0.0261, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.5979  
 Step 163: Loss: 0.0261, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6067  
 Step 164: Loss: 0.0261, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6151  
 Step 165: Loss: 0.0261, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6230  
 Step 166: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6304  
 Step 167: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6372  
 Step 168: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6433  
 Step 169: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6487  
 Step 170: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6533  
 Step 171: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6572  
 Step 172: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6602  
 Step 173: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6626  
 Step 174: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6642  
 Step 175: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6651  
 Step 176: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6654  
 Step 177: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0027, Distance: 4.6652  
 Step 178: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6644  
 Step 179: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6631  
 Step 180: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6615  
 Step 181: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6594  
 Step 182: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6572  
 Step 183: Loss: 0.0260, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6546  
 Step 184: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.6520  
 Step 185: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6492  
 Step 186: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6464  
 Step 187: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6435  
 Step 188: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6408  
 Step 189: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6380  
 Step 190: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6354  
 Step 191: Loss: 0.0260, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6330  
 Step 192: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6307  
 Step 193: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6286  
 Step 194: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6267  
 Step 195: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6251  
 Step 196: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6236  
 Step 197: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6224  
 Step 198: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6214  
 Step 199: Loss: 0.0260, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6206  
 Step 00: Loss: 1.5581, Total Entropy: 1.5581, Epistemic Entropy: 0.0118,  
 Aleatoric Entropy: 1.5463, Distance: 0.0000  
 Step 01: Loss: 0.6030, Total Entropy: 0.5950, Epistemic Entropy: 0.0061,



Aleatoric Entropy: 0.5889, Distance: 1.6000  
 Step 02: Loss: 0.1239, Total Entropy: 0.1090, Epistemic Entropy: 0.0011,  
 Aleatoric Entropy: 0.1079, Distance: 2.9875  
 Step 03: Loss: 0.0417, Total Entropy: 0.0206, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0204, Distance: 4.2295  
 Step 04: Loss: 0.0313, Total Entropy: 0.0049, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0049, Distance: 5.2799  
 Step 05: Loss: 0.0323, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 6.1702  
 Step 06: Loss: 0.0352, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 6.9328  
 Step 07: Loss: 0.0382, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 7.5919  
 Step 08: Loss: 0.0409, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 8.1653  
 Step 09: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6667  
 Step 10: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1063  
 Step 11: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4926  
 Step 12: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8322  
 Step 13: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1307  
 Step 14: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3929  
 Step 15: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6226  
 Step 16: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8234  
 Step 17: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9981  
 Step 18: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1494  
 Step 19: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2796  
 Step 20: Loss: 0.0570, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3907  
 Step 21: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4844  
 Step 22: Loss: 0.0578, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5625  
 Step 23: Loss: 0.0581, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6262  
 Step 24: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6770  
 Step 25: Loss: 0.0586, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.7160  
 Step 26: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7443  
 Step 27: Loss: 0.0588, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7627  
 Step 28: Loss: 0.0589, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7721  
 Step 29: Loss: 0.0589, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7734  
 Step 30: Loss: 0.0588, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7672  
 Step 31: Loss: 0.0588, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7542  
 Step 32: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7350  
 Step 33: Loss: 0.0586, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7100  
 Step 34: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6799  
 Step 35: Loss: 0.0582, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6449  
 Step 36: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6056  
 Step 37: Loss: 0.0578, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5623  
 Step 38: Loss: 0.0576, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5154  
 Step 39: Loss: 0.0573, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4651  
 Step 40: Loss: 0.0571, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4118  
 Step 41: Loss: 0.0568, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3557  
 Step 42: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2971  
 Step 43: Loss: 0.0562, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2361  
 Step 44: Loss: 0.0559, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1731  
 Step 45: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1082  
 Step 46: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0415  
 Step 47: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9732  
 Step 48: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9035  
 Step 49: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.8325  
 Step 50: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7603  
 Step 51: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6870  
 Step 52: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6127  
 Step 53: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5376  
 Step 54: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4616  
 Step 55: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3849  
 Step 56: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3075  
 Step 57: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2295  
 Step 58: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1509  
 Step 59: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0718  
 Step 60: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9923  
 Step 61: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9123  
 Step 62: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8319  
 Step 63: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7512  
 Step 64: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6701  
 Step 65: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5888  
 Step 66: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5072  
 Step 67: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4253  
 Step 68: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3433  
 Step 69: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2610  
 Step 70: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1786  
 Step 71: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0961  
 Step 72: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0134  
 Step 73: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.9306  
 Step 74: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8477  
 Step 75: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7647  
 Step 76: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6817  
 Step 77: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5986  
 Step 78: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5155  
 Step 79: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4323  
 Step 80: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3492  
 Step 81: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2660  
 Step 82: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1829  
 Step 83: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0998  
 Step 84: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0168  
 Step 85: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9338  
 Step 86: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8508  
 Step 87: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7680  
 Step 88: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6852  
 Step 89: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6026  
 Step 90: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5200  
 Step 91: Loss: 0.0372, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.4376  
 Step 92: Loss: 0.0368, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.3553  
 Step 93: Loss: 0.0364, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.2732  
 Step 94: Loss: 0.0360, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.1912  
 Step 95: Loss: 0.0356, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.1094  
 Step 96: Loss: 0.0352, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0279  
 Step 97: Loss: 0.0348, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.9465  
 Step 98: Loss: 0.0344, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8654  
 Step 99: Loss: 0.0341, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7846  
 Step 100: Loss: 0.0337, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7040  
 Step 101: Loss: 0.0333, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.6238  
 Step 102: Loss: 0.0329, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.5439  
 Step 103: Loss: 0.0325, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.4644  
 Step 104: Loss: 0.0322, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3853  
 Step 105: Loss: 0.0318, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.3066  
 Step 106: Loss: 0.0314, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.2284  
 Step 107: Loss: 0.0311, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.1507  
 Step 108: Loss: 0.0307, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 6.0737  
 Step 109: Loss: 0.0304, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.9972  
 Step 110: Loss: 0.0301, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.9215  
 Step 111: Loss: 0.0298, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.8466  
 Step 112: Loss: 0.0295, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.7725  
 Step 113: Loss: 0.0292, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.6994  
 Step 114: Loss: 0.0289, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.6273  
 Step 115: Loss: 0.0286, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.5564  
 Step 116: Loss: 0.0284, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.4867  
 Step 117: Loss: 0.0281, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.4185  
 Step 118: Loss: 0.0279, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.3517  
 Step 119: Loss: 0.0277, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 5.2866  
 Step 120: Loss: 0.0275, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 5.2233  
 Step 121: Loss: 0.0274, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0015, Distance: 5.1619  
 Step 122: Loss: 0.0272, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 5.1027  
 Step 123: Loss: 0.0271, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 5.0458  
 Step 124: Loss: 0.0270, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.9914  
 Step 125: Loss: 0.0269, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.9397  
 Step 126: Loss: 0.0268, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.8908  
 Step 127: Loss: 0.0268, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.8448  
 Step 128: Loss: 0.0267, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.8021  
 Step 129: Loss: 0.0267, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.7626  
 Step 130: Loss: 0.0267, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.7265  
 Step 131: Loss: 0.0267, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.6940  
 Step 132: Loss: 0.0267, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.6650  
 Step 133: Loss: 0.0267, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.6397  
 Step 134: Loss: 0.0267, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.6180  
 Step 135: Loss: 0.0267, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.5998  
 Step 136: Loss: 0.0267, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5851  
 Step 137: Loss: 0.0267, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.5738  
 Step 138: Loss: 0.0266, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.5656  
 Step 139: Loss: 0.0266, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.5605  
 Step 140: Loss: 0.0266, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.5581  
 Step 141: Loss: 0.0266, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.5583  
 Step 142: Loss: 0.0266, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.5606  
 Step 143: Loss: 0.0266, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5650  
 Step 144: Loss: 0.0266, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5709  
 Step 145: Loss: 0.0266, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0036, Distance: 4.5782  
 Step 146: Loss: 0.0265, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.5866  
 Step 147: Loss: 0.0265, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5958  
 Step 148: Loss: 0.0265, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.6055  
 Step 149: Loss: 0.0265, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.6155  
 Step 150: Loss: 0.0265, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.6255  
 Step 151: Loss: 0.0265, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.6354  
 Step 152: Loss: 0.0265, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.6450  
 Step 153: Loss: 0.0265, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.6542  
 Step 154: Loss: 0.0265, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6628  
 Step 155: Loss: 0.0265, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6707  
 Step 156: Loss: 0.0265, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6779  
 Step 157: Loss: 0.0265, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6843  
 Step 158: Loss: 0.0265, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6898  
 Step 159: Loss: 0.0265, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6946  
 Step 160: Loss: 0.0265, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6985  
 Step 161: Loss: 0.0265, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7015  
 Step 162: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7038  
 Step 163: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7054  
 Step 164: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7062  
 Step 165: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7064  
 Step 166: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7060  
 Step 167: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7051  
 Step 168: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7036  
 Step 169: Loss: 0.0265, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0031, Distance: 4.6607  
 Step 194: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6610  
 Step 195: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6614  
 Step 196: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6620  
 Step 197: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6625  
 Step 198: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6632  
 Step 199: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6639  
 Step 00: Loss: 1.5222, Total Entropy: 1.5222, Epistemic Entropy: 0.0212,  
 Aleatoric Entropy: 1.5011, Distance: 0.0000  
 Step 01: Loss: 0.7203, Total Entropy: 0.7123, Epistemic Entropy: 0.0092,  
 Aleatoric Entropy: 0.7031, Distance: 1.6000  
 Step 02: Loss: 0.1607, Total Entropy: 0.1464, Epistemic Entropy: 0.0015,  
 Aleatoric Entropy: 0.1449, Distance: 2.8644  
 Step 03: Loss: 0.0462, Total Entropy: 0.0258, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0256, Distance: 4.0856  
 Step 04: Loss: 0.0312, Total Entropy: 0.0055, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0055, Distance: 5.1362  
 Step 05: Loss: 0.0316, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 6.0313  
 Step 06: Loss: 0.0345, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 6.7997  
 Step 07: Loss: 0.0375, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 7.4647  
 Step 08: Loss: 0.0403, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 8.0440  
 Step 09: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5509  
 Step 10: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9958  
 Step 11: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3869  
 Step 12: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7309  
 Step 13: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0335  
 Step 14: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2992  
 Step 15: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5321  
 Step 16: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7355  
 Step 17: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.9125  
Step 18: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0656  
Step 19: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.1971  
Step 20: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.3091  
Step 21: Loss: 0.0570, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.4033  
Step 22: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.4815  
Step 23: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.5449  
Step 24: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.5951  
Step 25: Loss: 0.0582, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6331  
Step 26: Loss: 0.0583, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6600  
Step 27: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6767  
Step 28: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6843  
Step 29: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6834  
Step 30: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6748  
Step 31: Loss: 0.0583, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6592  
Step 32: Loss: 0.0582, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6371  
Step 33: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6092  
Step 34: Loss: 0.0579, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.5759  
Step 35: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.5378  
Step 36: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.4951  
Step 37: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.4484  
Step 38: Loss: 0.0570, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.3979  
Step 39: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.3441  
Step 40: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2871  
Step 41: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.2273  
 Step 42: Loss: 0.0558, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1649  
 Step 43: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1001  
 Step 44: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0332  
 Step 45: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9643  
 Step 46: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8936  
 Step 47: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8213  
 Step 48: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7475  
 Step 49: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6724  
 Step 50: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5960  
 Step 51: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5186  
 Step 52: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4401  
 Step 53: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3607  
 Step 54: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2805  
 Step 55: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1995  
 Step 56: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1179  
 Step 57: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0356  
 Step 58: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9528  
 Step 59: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8695  
 Step 60: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7858  
 Step 61: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7017  
 Step 62: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6173  
 Step 63: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5326  
 Step 64: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4476  
 Step 65: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3623  
 Step 66: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2769  
 Step 67: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1913  
 Step 68: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1056  
 Step 69: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0197  
 Step 70: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9338  
 Step 71: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8477  
 Step 72: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7617  
 Step 73: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6756  
 Step 74: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5895  
 Step 75: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5033  
 Step 76: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4172  
 Step 77: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3312  
 Step 78: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2452  
 Step 79: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1592  
 Step 80: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0733  
 Step 81: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9875  
 Step 82: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9017  
 Step 83: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8161  
 Step 84: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7306  
 Step 85: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6452  
 Step 86: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5600  
 Step 87: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4749  
 Step 88: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3899  
 Step 89: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.3052  
 Step 90: Loss: 0.0362, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.2206  
 Step 91: Loss: 0.0357, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.1362  
 Step 92: Loss: 0.0353, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0520  
 Step 93: Loss: 0.0349, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9681  
 Step 94: Loss: 0.0345, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8845  
 Step 95: Loss: 0.0341, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8011  
 Step 96: Loss: 0.0337, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7180  
 Step 97: Loss: 0.0333, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6352  
 Step 98: Loss: 0.0329, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.5528  
 Step 99: Loss: 0.0325, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.4707  
 Step 100: Loss: 0.0321, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3891  
 Step 101: Loss: 0.0318, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3079  
 Step 102: Loss: 0.0314, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.2272  
 Step 103: Loss: 0.0310, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.1471  
 Step 104: Loss: 0.0307, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.0676  
 Step 105: Loss: 0.0303, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.9887  
 Step 106: Loss: 0.0300, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.9106  
 Step 107: Loss: 0.0297, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.8333  
 Step 108: Loss: 0.0293, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.7568  
 Step 109: Loss: 0.0290, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.6814  
 Step 110: Loss: 0.0288, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.6071  
 Step 111: Loss: 0.0285, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.5340  
 Step 112: Loss: 0.0282, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.4622  
 Step 113: Loss: 0.0280, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0010, Distance: 5.3919  
 Step 114: Loss: 0.0278, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.3233  
 Step 115: Loss: 0.0276, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 5.2564  
 Step 116: Loss: 0.0274, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 5.1916  
 Step 117: Loss: 0.0272, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 5.1289  
 Step 118: Loss: 0.0271, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 5.0685  
 Step 119: Loss: 0.0269, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 5.0108  
 Step 120: Loss: 0.0268, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.9557  
 Step 121: Loss: 0.0268, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.9037  
 Step 122: Loss: 0.0267, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.8548  
 Step 123: Loss: 0.0266, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.8093  
 Step 124: Loss: 0.0266, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.7674  
 Step 125: Loss: 0.0266, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.7291  
 Step 126: Loss: 0.0266, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6946  
 Step 127: Loss: 0.0266, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.6641  
 Step 128: Loss: 0.0266, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.6375  
 Step 129: Loss: 0.0266, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.6148  
 Step 130: Loss: 0.0266, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5961  
 Step 131: Loss: 0.0266, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.5812  
 Step 132: Loss: 0.0266, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5699  
 Step 133: Loss: 0.0266, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5622  
 Step 134: Loss: 0.0265, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5577  
 Step 135: Loss: 0.0265, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5562  
 Step 136: Loss: 0.0265, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.5573  
 Step 137: Loss: 0.0265, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0036, Distance: 4.5609  
 Step 138: Loss: 0.0265, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.5664  
 Step 139: Loss: 0.0265, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5736  
 Step 140: Loss: 0.0264, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.5821  
 Step 141: Loss: 0.0264, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.5916  
 Step 142: Loss: 0.0264, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.6018  
 Step 143: Loss: 0.0264, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.6124  
 Step 144: Loss: 0.0264, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.6231  
 Step 145: Loss: 0.0264, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.6338  
 Step 146: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6441  
 Step 147: Loss: 0.0264, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.6538  
 Step 148: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6630  
 Step 149: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6714  
 Step 150: Loss: 0.0263, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6789  
 Step 151: Loss: 0.0263, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6855  
 Step 152: Loss: 0.0263, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6912  
 Step 153: Loss: 0.0263, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6959  
 Step 154: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.6997  
 Step 155: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.7025  
 Step 156: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.7044  
 Step 157: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.7055  
 Step 158: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.7058  
 Step 159: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.7053  
 Step 160: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.7042  
 Step 161: Loss: 0.0263, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,

[illegible]



Aleatoric Entropy: 0.0030, Distance: 4.6515  
 Step 186: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6518  
 Step 187: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6523  
 Step 188: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6529  
 Step 189: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6537  
 Step 190: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6544  
 Step 191: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6552  
 Step 192: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6561  
 Step 193: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6569  
 Step 194: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6578  
 Step 195: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6586  
 Step 196: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6593  
 Step 197: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.6601  
 Step 198: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6607  
 Step 199: Loss: 0.0263, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.6613  
 Step 00: Loss: 1.3935, Total Entropy: 1.3935, Epistemic Entropy: 0.0156,  
 Aleatoric Entropy: 1.3778, Distance: 0.0000  
 Step 01: Loss: 0.5577, Total Entropy: 0.5497, Epistemic Entropy: 0.0048,  
 Aleatoric Entropy: 0.5449, Distance: 1.6000  
 Step 02: Loss: 0.1092, Total Entropy: 0.0949, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0944, Distance: 2.8742  
 Step 03: Loss: 0.0363, Total Entropy: 0.0161, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0161, Distance: 4.0410  
 Step 04: Loss: 0.0287, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 5.0331  
 Step 05: Loss: 0.0304, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.8765  
 Step 06: Loss: 0.0333, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.6006  
 Step 07: Loss: 0.0363, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.2277  
 Step 08: Loss: 0.0389, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.7746  
 Step 09: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.2537  
Step 10: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6747  
Step 11: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0454  
Step 12: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3721  
Step 13: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6599  
Step 14: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9133  
Step 15: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1360  
Step 16: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.3312  
Step 17: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.5016  
Step 18: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.6497  
Step 19: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.7776  
Step 20: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.8872  
Step 21: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.9803  
Step 22: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0583  
Step 23: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.1226  
Step 24: Loss: 0.0559, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.1745  
Step 25: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2149  
Step 26: Loss: 0.0562, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2450  
Step 27: Loss: 0.0563, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2656  
Step 28: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2776  
Step 29: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2816  
Step 30: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2784  
Step 31: Loss: 0.0563, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2687  
Step 32: Loss: 0.0563, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2529  
Step 33: Loss: 0.0562, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.2315  
Step 34: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2052  
Step 35: Loss: 0.0559, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.1741  
Step 36: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.1389  
Step 37: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0997  
Step 38: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0571  
Step 39: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0111  
Step 40: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.9622  
Step 41: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.9105  
Step 42: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.8563  
Step 43: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.7998  
Step 44: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.7411  
Step 45: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.6806  
Step 46: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.6182  
Step 47: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.5542  
Step 48: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.4886  
Step 49: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.4217  
Step 50: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.3535  
Step 51: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2840  
Step 52: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2135  
Step 53: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1420  
Step 54: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.0695  
Step 55: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9962  
Step 56: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9220  
Step 57: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.8471  
 Step 58: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7715  
 Step 59: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6953  
 Step 60: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6185  
 Step 61: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5411  
 Step 62: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4633  
 Step 63: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3849  
 Step 64: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3061  
 Step 65: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2269  
 Step 66: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1473  
 Step 67: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0673  
 Step 68: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9870  
 Step 69: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9064  
 Step 70: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8255  
 Step 71: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7443  
 Step 72: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6629  
 Step 73: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5812  
 Step 74: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4993  
 Step 75: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4172  
 Step 76: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3349  
 Step 77: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2525  
 Step 78: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1699  
 Step 79: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0871  
 Step 80: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0042  
 Step 81: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.9211  
 Step 82: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8380  
 Step 83: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7547  
 Step 84: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6714  
 Step 85: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5879  
 Step 86: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5044  
 Step 87: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4209  
 Step 88: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3373  
 Step 89: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2536  
 Step 90: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1700  
 Step 91: Loss: 0.0355, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0863  
 Step 92: Loss: 0.0351, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0027  
 Step 93: Loss: 0.0347, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9191  
 Step 94: Loss: 0.0343, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8355  
 Step 95: Loss: 0.0338, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7520  
 Step 96: Loss: 0.0334, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6686  
 Step 97: Loss: 0.0330, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5853  
 Step 98: Loss: 0.0326, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5021  
 Step 99: Loss: 0.0322, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4191  
 Step 100: Loss: 0.0318, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3363  
 Step 101: Loss: 0.0314, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2537  
 Step 102: Loss: 0.0311, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1714  
 Step 103: Loss: 0.0307, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0893  
 Step 104: Loss: 0.0303, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.0077  
 Step 105: Loss: 0.0299, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0003, Distance: 5.9264  
 Step 106: Loss: 0.0296, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8456  
 Step 107: Loss: 0.0292, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.7654  
 Step 108: Loss: 0.0289, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6858  
 Step 109: Loss: 0.0285, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.6068  
 Step 110: Loss: 0.0282, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.5287  
 Step 111: Loss: 0.0279, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.4514  
 Step 112: Loss: 0.0276, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.3752  
 Step 113: Loss: 0.0273, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.3001  
 Step 114: Loss: 0.0270, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.2262  
 Step 115: Loss: 0.0268, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.1538  
 Step 116: Loss: 0.0266, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.0830  
 Step 117: Loss: 0.0263, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 5.0140  
 Step 118: Loss: 0.0262, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.9469  
 Step 119: Loss: 0.0260, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.8821  
 Step 120: Loss: 0.0258, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.8196  
 Step 121: Loss: 0.0257, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.7597  
 Step 122: Loss: 0.0256, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.7028  
 Step 123: Loss: 0.0255, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.6489  
 Step 124: Loss: 0.0255, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.5983  
 Step 125: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5513  
 Step 126: Loss: 0.0254, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.5080  
 Step 127: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4686  
 Step 128: Loss: 0.0254, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.4333  
 Step 129: Loss: 0.0254, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0034, Distance: 4.4021  
 Step 130: Loss: 0.0254, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.3752  
 Step 131: Loss: 0.0254, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.3525  
 Step 132: Loss: 0.0254, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.3340  
 Step 133: Loss: 0.0254, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.3195  
 Step 134: Loss: 0.0254, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.3090  
 Step 135: Loss: 0.0254, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.3021  
 Step 136: Loss: 0.0254, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2987  
 Step 137: Loss: 0.0253, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2984  
 Step 138: Loss: 0.0253, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.3009  
 Step 139: Loss: 0.0253, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.3058  
 Step 140: Loss: 0.0253, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.3128  
 Step 141: Loss: 0.0253, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.3214  
 Step 142: Loss: 0.0252, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.3314  
 Step 143: Loss: 0.0252, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.3422  
 Step 144: Loss: 0.0252, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.3537  
 Step 145: Loss: 0.0252, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.3655  
 Step 146: Loss: 0.0252, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.3773  
 Step 147: Loss: 0.0252, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.3888  
 Step 148: Loss: 0.0252, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4000  
 Step 149: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4104  
 Step 150: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4202  
 Step 151: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4290  
 Step 152: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.4369  
 Step 153: Loss: 0.0251, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,

[illegible]



Aleatoric Entropy: 0.0030, Distance: 4.4115  
 Step 178: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4092  
 Step 179: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4073  
 Step 180: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4056  
 Step 181: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4043  
 Step 182: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4033  
 Step 183: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4026  
 Step 184: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4022  
 Step 185: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4020  
 Step 186: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4021  
 Step 187: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4024  
 Step 188: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4028  
 Step 189: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4034  
 Step 190: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4041  
 Step 191: Loss: 0.0251, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4050  
 Step 192: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4059  
 Step 193: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4068  
 Step 194: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4078  
 Step 195: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4087  
 Step 196: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4096  
 Step 197: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4105  
 Step 198: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4114  
 Step 199: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4122  
 Step 00: Loss: 1.3171, Total Entropy: 1.3171, Epistemic Entropy: 0.0061,  
 Aleatoric Entropy: 1.3109, Distance: 0.0000  
 Step 01: Loss: 0.3417, Total Entropy: 0.3337, Epistemic Entropy: 0.0015,

Aleatoric Entropy: 0.3322, Distance: 1.6000  
 Step 02: Loss: 0.0727, Total Entropy: 0.0574, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0572, Distance: 3.0428  
 Step 03: Loss: 0.0333, Total Entropy: 0.0121, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0120, Distance: 4.2290  
 Step 04: Loss: 0.0293, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 5.2090  
 Step 05: Loss: 0.0312, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 6.0329  
 Step 06: Loss: 0.0341, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 6.7358  
 Step 07: Loss: 0.0369, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 7.3416  
 Step 08: Loss: 0.0394, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.8677  
 Step 09: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3266  
 Step 10: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7281  
 Step 11: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0801  
 Step 12: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3888  
 Step 13: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6594  
 Step 14: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8962  
 Step 15: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1029  
 Step 16: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2826  
 Step 17: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4382  
 Step 18: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5721  
 Step 19: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6865  
 Step 20: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7831  
 Step 21: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8637  
 Step 22: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9298  
 Step 23: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9828  
 Step 24: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0238  
 Step 25: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.0539  
 Step 26: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0741  
 Step 27: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0854  
 Step 28: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0884  
 Step 29: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0840  
 Step 30: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0727  
 Step 31: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0552  
 Step 32: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0320  
 Step 33: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0037  
 Step 34: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9706  
 Step 35: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9332  
 Step 36: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8919  
 Step 37: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8470  
 Step 38: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7989  
 Step 39: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7478  
 Step 40: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6939  
 Step 41: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6376  
 Step 42: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5791  
 Step 43: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5185  
 Step 44: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4560  
 Step 45: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3919  
 Step 46: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3262  
 Step 47: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2591  
 Step 48: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1907  
 Step 49: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.1212  
 Step 50: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0506  
 Step 51: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9791  
 Step 52: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9066  
 Step 53: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8335  
 Step 54: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7596  
 Step 55: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6850  
 Step 56: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6099  
 Step 57: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5342  
 Step 58: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4581  
 Step 59: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3815  
 Step 60: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3046  
 Step 61: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2272  
 Step 62: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1496  
 Step 63: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0717  
 Step 64: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9935  
 Step 65: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9151  
 Step 66: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8364  
 Step 67: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7576  
 Step 68: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6786  
 Step 69: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5995  
 Step 70: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5202  
 Step 71: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4408  
 Step 72: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3613  
 Step 73: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.2818  
Step 74: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.2021  
Step 75: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1224  
Step 76: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.0427  
Step 77: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.9630  
Step 78: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.8832  
Step 79: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.8034  
Step 80: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.7237  
Step 81: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.6439  
Step 82: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.5642  
Step 83: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.4846  
Step 84: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.4050  
Step 85: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.3255  
Step 86: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.2461  
Step 87: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.1667  
Step 88: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.0875  
Step 89: Loss: 0.0351, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 7.0084  
Step 90: Loss: 0.0347, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.9295  
Step 91: Loss: 0.0343, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.8507  
Step 92: Loss: 0.0339, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.7720  
Step 93: Loss: 0.0336, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.6936  
Step 94: Loss: 0.0332, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.6153  
Step 95: Loss: 0.0328, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.5373  
Step 96: Loss: 0.0324, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.4595  
Step 97: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.3820  
 Step 98: Loss: 0.0317, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3048  
 Step 99: Loss: 0.0313, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2279  
 Step 100: Loss: 0.0309, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1513  
 Step 101: Loss: 0.0306, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0751  
 Step 102: Loss: 0.0302, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9993  
 Step 103: Loss: 0.0299, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.9240  
 Step 104: Loss: 0.0295, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8491  
 Step 105: Loss: 0.0292, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.7748  
 Step 106: Loss: 0.0289, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.7010  
 Step 107: Loss: 0.0286, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6278  
 Step 108: Loss: 0.0282, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.5554  
 Step 109: Loss: 0.0279, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.4836  
 Step 110: Loss: 0.0276, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.4127  
 Step 111: Loss: 0.0274, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.3427  
 Step 112: Loss: 0.0271, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.2736  
 Step 113: Loss: 0.0268, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.2057  
 Step 114: Loss: 0.0266, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.1388  
 Step 115: Loss: 0.0263, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.0732  
 Step 116: Loss: 0.0261, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.0090  
 Step 117: Loss: 0.0259, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.9463  
 Step 118: Loss: 0.0257, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.8852  
 Step 119: Loss: 0.0256, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.8258  
 Step 120: Loss: 0.0254, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.7683  
 Step 121: Loss: 0.0253, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0017, Distance: 4.7129  
 Step 122: Loss: 0.0252, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.6596  
 Step 123: Loss: 0.0251, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.6086  
 Step 124: Loss: 0.0250, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.5600  
 Step 125: Loss: 0.0249, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.5141  
 Step 126: Loss: 0.0248, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.4709  
 Step 127: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4305  
 Step 128: Loss: 0.0248, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3931  
 Step 129: Loss: 0.0247, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3587  
 Step 130: Loss: 0.0247, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.3275  
 Step 131: Loss: 0.0247, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.2995  
 Step 132: Loss: 0.0247, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.2747  
 Step 133: Loss: 0.0247, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.2530  
 Step 134: Loss: 0.0247, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.2346  
 Step 135: Loss: 0.0247, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.2192  
 Step 136: Loss: 0.0247, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.2068  
 Step 137: Loss: 0.0247, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1973  
 Step 138: Loss: 0.0247, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1906  
 Step 139: Loss: 0.0247, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1863  
 Step 140: Loss: 0.0247, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1844  
 Step 141: Loss: 0.0247, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1846  
 Step 142: Loss: 0.0247, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1867  
 Step 143: Loss: 0.0246, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1903  
 Step 144: Loss: 0.0246, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.1954  
 Step 145: Loss: 0.0246, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0036, Distance: 4.2016  
 Step 146: Loss: 0.0246, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.2087  
 Step 147: Loss: 0.0246, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.2165  
 Step 148: Loss: 0.0246, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.2247  
 Step 149: Loss: 0.0246, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.2332  
 Step 150: Loss: 0.0246, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.2417  
 Step 151: Loss: 0.0246, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.2502  
 Step 152: Loss: 0.0246, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.2584  
 Step 153: Loss: 0.0245, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.2663  
 Step 154: Loss: 0.0245, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.2737  
 Step 155: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2806  
 Step 156: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2869  
 Step 157: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2925  
 Step 158: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.2975  
 Step 159: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.3018  
 Step 160: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.3054  
 Step 161: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.3083  
 Step 162: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.3105  
 Step 163: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3121  
 Step 164: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3131  
 Step 165: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3135  
 Step 166: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3135  
 Step 167: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3129  
 Step 168: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3120  
 Step 169: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0031, Distance: 4.2733  
 Step 194: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2733  
 Step 195: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2735  
 Step 196: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2738  
 Step 197: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2741  
 Step 198: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2745  
 Step 199: Loss: 0.0245, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2750  
 Step 00: Loss: 1.2804, Total Entropy: 1.2804, Epistemic Entropy: 0.0234,  
 Aleatoric Entropy: 1.2570, Distance: 0.0000  
 Step 01: Loss: 0.4164, Total Entropy: 0.4084, Epistemic Entropy: 0.0067,  
 Aleatoric Entropy: 0.4017, Distance: 1.6000  
 Step 02: Loss: 0.0685, Total Entropy: 0.0535, Epistemic Entropy: 0.0008,  
 Aleatoric Entropy: 0.0527, Distance: 2.9944  
 Step 03: Loss: 0.0289, Total Entropy: 0.0079, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0078, Distance: 4.2057  
 Step 04: Loss: 0.0276, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 5.2123  
 Step 05: Loss: 0.0307, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 6.0583  
 Step 06: Loss: 0.0340, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7788  
 Step 07: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3986  
 Step 08: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9355  
 Step 09: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4026  
 Step 10: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8101  
 Step 11: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1661  
 Step 12: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4770  
 Step 13: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7483  
 Step 14: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9844  
 Step 15: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1892  
 Step 16: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3660  
 Step 17: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.5175  
 Step 18: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6464  
 Step 19: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7549  
 Step 20: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8448  
 Step 21: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9179  
 Step 22: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9757  
 Step 23: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0198  
 Step 24: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0512  
 Step 25: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0712  
 Step 26: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0807  
 Step 27: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0807  
 Step 28: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0720  
 Step 29: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0554  
 Step 30: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0316  
 Step 31: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0013  
 Step 32: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9649  
 Step 33: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9231  
 Step 34: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8763  
 Step 35: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8250  
 Step 36: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7695  
 Step 37: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7103  
 Step 38: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6477  
 Step 39: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5819  
 Step 40: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5134  
 Step 41: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.4423  
 Step 42: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3688  
 Step 43: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2933  
 Step 44: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2158  
 Step 45: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1366  
 Step 46: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0559  
 Step 47: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9737  
 Step 48: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8902  
 Step 49: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8056  
 Step 50: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7199  
 Step 51: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6333  
 Step 52: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5458  
 Step 53: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4575  
 Step 54: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3685  
 Step 55: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2789  
 Step 56: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1887  
 Step 57: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0980  
 Step 58: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0069  
 Step 59: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9154  
 Step 60: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8234  
 Step 61: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7312  
 Step 62: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6387  
 Step 63: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5459  
 Step 64: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4530  
 Step 65: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.3598  
 Step 66: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2665  
 Step 67: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1730  
 Step 68: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0795  
 Step 69: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9858  
 Step 70: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8921  
 Step 71: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7983  
 Step 72: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7045  
 Step 73: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6106  
 Step 74: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5168  
 Step 75: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4229  
 Step 76: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3291  
 Step 77: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2354  
 Step 78: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1416  
 Step 79: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0480  
 Step 80: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9544  
 Step 81: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8609  
 Step 82: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7675  
 Step 83: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6742  
 Step 84: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5811  
 Step 85: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4881  
 Step 86: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3953  
 Step 87: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3027  
 Step 88: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2103  
 Step 89: Loss: 0.0307, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.1181  
 Step 90: Loss: 0.0302, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0263  
 Step 91: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9347  
 Step 92: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8435  
 Step 93: Loss: 0.0289, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7526  
 Step 94: Loss: 0.0285, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6622  
 Step 95: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5723  
 Step 96: Loss: 0.0276, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4830  
 Step 97: Loss: 0.0272, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3942  
 Step 98: Loss: 0.0268, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3062  
 Step 99: Loss: 0.0265, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2191  
 Step 100: Loss: 0.0261, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1328  
 Step 101: Loss: 0.0257, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.0476  
 Step 102: Loss: 0.0254, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.9637  
 Step 103: Loss: 0.0251, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.8811  
 Step 104: Loss: 0.0248, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.8001  
 Step 105: Loss: 0.0245, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.7209  
 Step 106: Loss: 0.0243, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.6437  
 Step 107: Loss: 0.0241, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.5689  
 Step 108: Loss: 0.0239, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.4966  
 Step 109: Loss: 0.0237, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.4273  
 Step 110: Loss: 0.0236, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.3613  
 Step 111: Loss: 0.0235, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.2989  
 Step 112: Loss: 0.0234, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.2405  
 Step 113: Loss: 0.0234, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0024, Distance: 4.1864  
 Step 114: Loss: 0.0234, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1370  
 Step 115: Loss: 0.0234, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0926  
 Step 116: Loss: 0.0234, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.0536  
 Step 117: Loss: 0.0234, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.0200  
 Step 118: Loss: 0.0234, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.9920  
 Step 119: Loss: 0.0234, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.9697  
 Step 120: Loss: 0.0234, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.9530  
 Step 121: Loss: 0.0234, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9418  
 Step 122: Loss: 0.0234, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9357  
 Step 123: Loss: 0.0234, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9343  
 Step 124: Loss: 0.0234, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.9373  
 Step 125: Loss: 0.0233, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.9440  
 Step 126: Loss: 0.0233, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.9539  
 Step 127: Loss: 0.0233, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.9663  
 Step 128: Loss: 0.0232, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9807  
 Step 129: Loss: 0.0232, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.9964  
 Step 130: Loss: 0.0232, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.0130  
 Step 131: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0297  
 Step 132: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0463  
 Step 133: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0622  
 Step 134: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.0772  
 Step 135: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0910  
 Step 136: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.1033  
 Step 137: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 4.1141  
 Step 138: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1232  
 Step 139: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1306  
 Step 140: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1363  
 Step 141: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1404  
 Step 142: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1428  
 Step 143: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1438  
 Step 144: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1434  
 Step 145: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1418  
 Step 146: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1390  
 Step 147: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1354  
 Step 148: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1310  
 Step 149: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1260  
 Step 150: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1205  
 Step 151: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1147  
 Step 152: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1088  
 Step 153: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1028  
 Step 154: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0970  
 Step 155: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0914  
 Step 156: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0861  
 Step 157: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0812  
 Step 158: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.0767  
 Step 159: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.0728  
 Step 160: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.0694  
 Step 161: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0026, Distance: 4.0838  
 Step 186: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0839  
 Step 187: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0839  
 Step 188: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0837  
 Step 189: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0835  
 Step 190: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0831  
 Step 191: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0826  
 Step 192: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0821  
 Step 193: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0816  
 Step 194: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0810  
 Step 195: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0804  
 Step 196: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0798  
 Step 197: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0793  
 Step 198: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0788  
 Step 199: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0783  
 Step 00: Loss: 1.2398, Total Entropy: 1.2398, Epistemic Entropy: 0.0380,  
 Aleatoric Entropy: 1.2018, Distance: 0.0000  
 Step 01: Loss: 0.7582, Total Entropy: 0.7502, Epistemic Entropy: 0.0210,  
 Aleatoric Entropy: 0.7292, Distance: 1.6000  
 Step 02: Loss: 0.2593, Total Entropy: 0.2458, Epistemic Entropy: 0.0054,  
 Aleatoric Entropy: 0.2404, Distance: 2.6906  
 Step 03: Loss: 0.0570, Total Entropy: 0.0382, Epistemic Entropy: 0.0006,  
 Aleatoric Entropy: 0.0376, Distance: 3.7685  
 Step 04: Loss: 0.0300, Total Entropy: 0.0062, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0061, Distance: 4.7602  
 Step 05: Loss: 0.0294, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 5.6281  
 Step 06: Loss: 0.0322, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.3830  
 Step 07: Loss: 0.0353, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0416  
 Step 08: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6185  
 Step 09: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.1255  
 Step 10: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5720  
 Step 11: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9658  
 Step 12: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3131  
 Step 13: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6194  
 Step 14: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8891  
 Step 15: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1260  
 Step 16: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3337  
 Step 17: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5150  
 Step 18: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6724  
 Step 19: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8083  
 Step 20: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9247  
 Step 21: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0233  
 Step 22: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1058  
 Step 23: Loss: 0.0559, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1735  
 Step 24: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2279  
 Step 25: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2700  
 Step 26: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3009  
 Step 27: Loss: 0.0566, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3216  
 Step 28: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3329  
 Step 29: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3357  
 Step 30: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3306  
 Step 31: Loss: 0.0566, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3183  
 Step 32: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2994  
 Step 33: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.2746  
 Step 34: Loss: 0.0562, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2442  
 Step 35: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2087  
 Step 36: Loss: 0.0558, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1686  
 Step 37: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1242  
 Step 38: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0759  
 Step 39: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0239  
 Step 40: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9687  
 Step 41: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9104  
 Step 42: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8493  
 Step 43: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7856  
 Step 44: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7196  
 Step 45: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6513  
 Step 46: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5811  
 Step 47: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5089  
 Step 48: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4351  
 Step 49: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3597  
 Step 50: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2829  
 Step 51: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2046  
 Step 52: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1252  
 Step 53: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0446  
 Step 54: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9629  
 Step 55: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8803  
 Step 56: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7968  
 Step 57: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.7124  
 Step 58: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6272  
 Step 59: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5414  
 Step 60: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4549  
 Step 61: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3677  
 Step 62: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2800  
 Step 63: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1918  
 Step 64: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1031  
 Step 65: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0140  
 Step 66: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9244  
 Step 67: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8345  
 Step 68: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7442  
 Step 69: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6536  
 Step 70: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5627  
 Step 71: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4716  
 Step 72: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3802  
 Step 73: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2886  
 Step 74: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1968  
 Step 75: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1048  
 Step 76: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0127  
 Step 77: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9205  
 Step 78: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8281  
 Step 79: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7357  
 Step 80: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6431  
 Step 81: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.5505  
 Step 82: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4579  
 Step 83: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3653  
 Step 84: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2726  
 Step 85: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1800  
 Step 86: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0873  
 Step 87: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9948  
 Step 88: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9022  
 Step 89: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8098  
 Step 90: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7175  
 Step 91: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6253  
 Step 92: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5332  
 Step 93: Loss: 0.0323, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4413  
 Step 94: Loss: 0.0318, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3496  
 Step 95: Loss: 0.0314, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2581  
 Step 96: Loss: 0.0309, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1668  
 Step 97: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0759  
 Step 98: Loss: 0.0300, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9853  
 Step 99: Loss: 0.0296, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8950  
 Step 100: Loss: 0.0292, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.8052  
 Step 101: Loss: 0.0288, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7158  
 Step 102: Loss: 0.0284, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6270  
 Step 103: Loss: 0.0280, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.5388  
 Step 104: Loss: 0.0276, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4513  
 Step 105: Loss: 0.0272, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 5.3646  
 Step 106: Loss: 0.0268, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2788  
 Step 107: Loss: 0.0265, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1940  
 Step 108: Loss: 0.0261, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.1104  
 Step 109: Loss: 0.0258, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.0281  
 Step 110: Loss: 0.0255, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.9473  
 Step 111: Loss: 0.0252, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.8682  
 Step 112: Loss: 0.0250, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.7909  
 Step 113: Loss: 0.0247, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.7159  
 Step 114: Loss: 0.0245, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.6432  
 Step 115: Loss: 0.0244, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.5733  
 Step 116: Loss: 0.0242, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.5063  
 Step 117: Loss: 0.0241, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.4427  
 Step 118: Loss: 0.0240, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.3827  
 Step 119: Loss: 0.0239, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.3267  
 Step 120: Loss: 0.0239, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2750  
 Step 121: Loss: 0.0239, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.2280  
 Step 122: Loss: 0.0239, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.1858  
 Step 123: Loss: 0.0239, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.1487  
 Step 124: Loss: 0.0239, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.1169  
 Step 125: Loss: 0.0239, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.0905  
 Step 126: Loss: 0.0239, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.0694  
 Step 127: Loss: 0.0239, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.0536  
 Step 128: Loss: 0.0239, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.0429  
 Step 129: Loss: 0.0239, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0037, Distance: 4.0370  
Step 130: Loss: 0.0239, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0037, Distance: 4.0356  
Step 131: Loss: 0.0239, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0036, Distance: 4.0382  
Step 132: Loss: 0.0238, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0036, Distance: 4.0443  
Step 133: Loss: 0.0238, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0035, Distance: 4.0534  
Step 134: Loss: 0.0238, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 4.0649  
Step 135: Loss: 0.0237, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0033, Distance: 4.0783  
Step 136: Loss: 0.0237, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0032, Distance: 4.0931  
Step 137: Loss: 0.0237, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0031, Distance: 4.1086  
Step 138: Loss: 0.0237, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0030, Distance: 4.1245  
Step 139: Loss: 0.0237, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 4.1403  
Step 140: Loss: 0.0236, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.1556  
Step 141: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.1702  
Step 142: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.1836  
Step 143: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1958  
Step 144: Loss: 0.0236, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.2066  
Step 145: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0025, Distance: 4.2159  
Step 146: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0025, Distance: 4.2236  
Step 147: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0025, Distance: 4.2297  
Step 148: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 4.2343  
Step 149: Loss: 0.0236, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 4.2373  
Step 150: Loss: 0.0236, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 4.2389  
Step 151: Loss: 0.0236, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 4.2392  
Step 152: Loss: 0.0236, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 4.2382  
Step 153: Loss: 0.0236, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0024, Distance: 4.2361  
 Step 154: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.2331  
 Step 155: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.2292  
 Step 156: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2247  
 Step 157: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2196  
 Step 158: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2142  
 Step 159: Loss: 0.0236, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2085  
 Step 160: Loss: 0.0236, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.2026  
 Step 161: Loss: 0.0236, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.1968  
 Step 162: Loss: 0.0236, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.1911  
 Step 163: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.1857  
 Step 164: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1805  
 Step 165: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1757  
 Step 166: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1714  
 Step 167: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1675  
 Step 168: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1642  
 Step 169: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1614  
 Step 170: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1592  
 Step 171: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1575  
 Step 172: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1563  
 Step 173: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1556  
 Step 174: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1554  
 Step 175: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1556  
 Step 176: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1562  
 Step 177: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0028, Distance: 4.1571  
 Step 178: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1583  
 Step 179: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1597  
 Step 180: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1613  
 Step 181: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1629  
 Step 182: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1646  
 Step 183: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1664  
 Step 184: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1680  
 Step 185: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1697  
 Step 186: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1712  
 Step 187: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1726  
 Step 188: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1739  
 Step 189: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1749  
 Step 190: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1759  
 Step 191: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1766  
 Step 192: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1772  
 Step 193: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1776  
 Step 194: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1778  
 Step 195: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1779  
 Step 196: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1778  
 Step 197: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1776  
 Step 198: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1773  
 Step 199: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1769  
 Step 00: Loss: 1.2233, Total Entropy: 1.2233, Epistemic Entropy: 0.0062,  
 Aleatoric Entropy: 1.2171, Distance: 0.0000  
 Step 01: Loss: 0.6318, Total Entropy: 0.6238, Epistemic Entropy: 0.0026,

Aleatoric Entropy: 0.6212, Distance: 1.6000  
Step 02: Loss: 0.1562, Total Entropy: 0.1423, Epistemic Entropy: 0.0004,  
Aleatoric Entropy: 0.1419, Distance: 2.7683  
Step 03: Loss: 0.0451, Total Entropy: 0.0254, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0254, Distance: 3.9257  
Step 04: Loss: 0.0300, Total Entropy: 0.0053, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0053, Distance: 4.9378  
Step 05: Loss: 0.0304, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0014, Distance: 5.8046  
Step 06: Loss: 0.0332, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 6.5496  
Step 07: Loss: 0.0361, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 7.1939  
Step 08: Loss: 0.0388, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 7.7542  
Step 09: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.2434  
Step 10: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6716  
Step 11: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0468  
Step 12: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3758  
Step 13: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6639  
Step 14: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9158  
Step 15: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1355  
Step 16: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.3262  
Step 17: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.4909  
Step 18: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.6323  
Step 19: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.7525  
Step 20: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.8536  
Step 21: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.9374  
Step 22: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0054  
Step 23: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0591  
Step 24: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0998  
Step 25: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.1286  
 Step 26: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1465  
 Step 27: Loss: 0.0558, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1546  
 Step 28: Loss: 0.0558, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1536  
 Step 29: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1444  
 Step 30: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1277  
 Step 31: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1041  
 Step 32: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0742  
 Step 33: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0386  
 Step 34: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9977  
 Step 35: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9519  
 Step 36: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9018  
 Step 37: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8477  
 Step 38: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7900  
 Step 39: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7289  
 Step 40: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6647  
 Step 41: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5978  
 Step 42: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5283  
 Step 43: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4566  
 Step 44: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3827  
 Step 45: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3070  
 Step 46: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2295  
 Step 47: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1504  
 Step 48: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0700  
 Step 49: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.9882  
 Step 50: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9053  
 Step 51: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8213  
 Step 52: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7364  
 Step 53: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6506  
 Step 54: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5641  
 Step 55: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4769  
 Step 56: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3890  
 Step 57: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3005  
 Step 58: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2116  
 Step 59: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1222  
 Step 60: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0324  
 Step 61: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9422  
 Step 62: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8518  
 Step 63: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7610  
 Step 64: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6700  
 Step 65: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5787  
 Step 66: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4873  
 Step 67: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3956  
 Step 68: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3039  
 Step 69: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2120  
 Step 70: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1200  
 Step 71: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0279  
 Step 72: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9358  
 Step 73: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.8436  
 Step 74: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7515  
 Step 75: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6593  
 Step 76: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5671  
 Step 77: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4749  
 Step 78: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3828  
 Step 79: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2908  
 Step 80: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1988  
 Step 81: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1069  
 Step 82: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0152  
 Step 83: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9235  
 Step 84: Loss: 0.0342, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8321  
 Step 85: Loss: 0.0338, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7407  
 Step 86: Loss: 0.0333, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6496  
 Step 87: Loss: 0.0329, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5587  
 Step 88: Loss: 0.0324, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4680  
 Step 89: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3776  
 Step 90: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2875  
 Step 91: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1978  
 Step 92: Loss: 0.0307, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1084  
 Step 93: Loss: 0.0303, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0195  
 Step 94: Loss: 0.0299, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9310  
 Step 95: Loss: 0.0295, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8432  
 Step 96: Loss: 0.0291, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.7559  
 Step 97: Loss: 0.0287, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 5.6694  
 Step 98: Loss: 0.0283, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.5836  
 Step 99: Loss: 0.0280, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.4988  
 Step 100: Loss: 0.0276, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.4150  
 Step 101: Loss: 0.0273, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.3324  
 Step 102: Loss: 0.0270, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.2512  
 Step 103: Loss: 0.0267, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.1714  
 Step 104: Loss: 0.0264, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.0933  
 Step 105: Loss: 0.0262, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.0171  
 Step 106: Loss: 0.0260, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.9431  
 Step 107: Loss: 0.0258, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.8715  
 Step 108: Loss: 0.0256, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.8025  
 Step 109: Loss: 0.0255, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.7365  
 Step 110: Loss: 0.0254, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.6738  
 Step 111: Loss: 0.0253, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.6147  
 Step 112: Loss: 0.0252, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.5594  
 Step 113: Loss: 0.0252, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.5083  
 Step 114: Loss: 0.0252, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.4616  
 Step 115: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4196  
 Step 116: Loss: 0.0251, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.3826  
 Step 117: Loss: 0.0252, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.3505  
 Step 118: Loss: 0.0252, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.3235  
 Step 119: Loss: 0.0252, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.3017  
 Step 120: Loss: 0.0252, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.2848  
 Step 121: Loss: 0.0252, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0038, Distance: 4.2728  
 Step 122: Loss: 0.0252, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2653  
 Step 123: Loss: 0.0252, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2622  
 Step 124: Loss: 0.0251, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2629  
 Step 125: Loss: 0.0251, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2670  
 Step 126: Loss: 0.0251, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.2741  
 Step 127: Loss: 0.0251, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.2837  
 Step 128: Loss: 0.0250, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.2953  
 Step 129: Loss: 0.0250, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.3083  
 Step 130: Loss: 0.0250, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.3224  
 Step 131: Loss: 0.0250, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.3370  
 Step 132: Loss: 0.0249, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.3518  
 Step 133: Loss: 0.0249, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.3663  
 Step 134: Loss: 0.0249, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.3804  
 Step 135: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3936  
 Step 136: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.4059  
 Step 137: Loss: 0.0249, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.4170  
 Step 138: Loss: 0.0249, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.4268  
 Step 139: Loss: 0.0249, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4352  
 Step 140: Loss: 0.0249, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4421  
 Step 141: Loss: 0.0249, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4477  
 Step 142: Loss: 0.0249, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4518  
 Step 143: Loss: 0.0249, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4546  
 Step 144: Loss: 0.0249, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4561  
 Step 145: Loss: 0.0249, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,



[illegible]

[illegible]

Aleatoric Entropy: 0.0028, Distance: 4.4013  
 Step 194: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.4010  
 Step 195: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.4006  
 Step 196: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.4002  
 Step 197: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3997  
 Step 198: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3992  
 Step 199: Loss: 0.0249, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3987  
 Step 00: Loss: 1.2034, Total Entropy: 1.2034, Epistemic Entropy: 0.0088,  
 Aleatoric Entropy: 1.1946, Distance: 0.0000  
 Step 01: Loss: 0.8145, Total Entropy: 0.8065, Epistemic Entropy: 0.0056,  
 Aleatoric Entropy: 0.8009, Distance: 1.6000  
 Step 02: Loss: 0.4397, Total Entropy: 0.4257, Epistemic Entropy: 0.0026,  
 Aleatoric Entropy: 0.4232, Distance: 2.7925  
 Step 03: Loss: 0.1227, Total Entropy: 0.1036, Epistemic Entropy: 0.0006,  
 Aleatoric Entropy: 0.1030, Distance: 3.8313  
 Step 04: Loss: 0.0438, Total Entropy: 0.0195, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0194, Distance: 4.8469  
 Step 05: Loss: 0.0330, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0041, Distance: 5.7654  
 Step 06: Loss: 0.0339, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 6.5749  
 Step 07: Loss: 0.0367, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 7.2855  
 Step 08: Loss: 0.0397, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.9098  
 Step 09: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4593  
 Step 10: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9438  
 Step 11: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3714  
 Step 12: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7487  
 Step 13: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0815  
 Step 14: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3747  
 Step 15: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6323  
 Step 16: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8582  
 Step 17: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.0553  
 Step 18: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2265  
 Step 19: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3742  
 Step 20: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5007  
 Step 21: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6078  
 Step 22: Loss: 0.0585, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6974  
 Step 23: Loss: 0.0589, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7710  
 Step 24: Loss: 0.0591, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8300  
 Step 25: Loss: 0.0594, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8756  
 Step 26: Loss: 0.0595, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9092  
 Step 27: Loss: 0.0597, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9316  
 Step 28: Loss: 0.0597, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9438  
 Step 29: Loss: 0.0597, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9467  
 Step 30: Loss: 0.0597, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9412  
 Step 31: Loss: 0.0596, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9278  
 Step 32: Loss: 0.0595, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9073  
 Step 33: Loss: 0.0594, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8803  
 Step 34: Loss: 0.0592, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8473  
 Step 35: Loss: 0.0590, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8087  
 Step 36: Loss: 0.0588, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7651  
 Step 37: Loss: 0.0586, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7169  
 Step 38: Loss: 0.0583, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6645  
 Step 39: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6081  
 Step 40: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5481  
 Step 41: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.4849  
 Step 42: Loss: 0.0571, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4186  
 Step 43: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3495  
 Step 44: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2779  
 Step 45: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2039  
 Step 46: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1278  
 Step 47: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0497  
 Step 48: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9697  
 Step 49: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8881  
 Step 50: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8050  
 Step 51: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7204  
 Step 52: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6345  
 Step 53: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5475  
 Step 54: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4593  
 Step 55: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3702  
 Step 56: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2801  
 Step 57: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1892  
 Step 58: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0975  
 Step 59: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0052  
 Step 60: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9122  
 Step 61: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8186  
 Step 62: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7245  
 Step 63: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6300  
 Step 64: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5350  
 Step 65: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.4396  
 Step 66: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3439  
 Step 67: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2479  
 Step 68: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1515  
 Step 69: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0550  
 Step 70: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9582  
 Step 71: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8612  
 Step 72: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7641  
 Step 73: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6668  
 Step 74: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5694  
 Step 75: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4719  
 Step 76: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3743  
 Step 77: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2766  
 Step 78: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1789  
 Step 79: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0811  
 Step 80: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9833  
 Step 81: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8855  
 Step 82: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7878  
 Step 83: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6900  
 Step 84: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5923  
 Step 85: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4946  
 Step 86: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3970  
 Step 87: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2995  
 Step 88: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2020  
 Step 89: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.1047  
 Step 90: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0075  
 Step 91: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9104  
 Step 92: Loss: 0.0341, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8135  
 Step 93: Loss: 0.0336, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7168  
 Step 94: Loss: 0.0332, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6203  
 Step 95: Loss: 0.0327, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5240  
 Step 96: Loss: 0.0322, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4280  
 Step 97: Loss: 0.0318, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3323  
 Step 98: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2369  
 Step 99: Loss: 0.0309, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1419  
 Step 100: Loss: 0.0304, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0474  
 Step 101: Loss: 0.0300, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9533  
 Step 102: Loss: 0.0296, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8598  
 Step 103: Loss: 0.0291, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.7670  
 Step 104: Loss: 0.0287, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.6749  
 Step 105: Loss: 0.0283, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.5836  
 Step 106: Loss: 0.0279, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.4933  
 Step 107: Loss: 0.0276, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.4040  
 Step 108: Loss: 0.0272, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.3160  
 Step 109: Loss: 0.0269, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.2294  
 Step 110: Loss: 0.0266, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.1445  
 Step 111: Loss: 0.0263, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.0613  
 Step 112: Loss: 0.0260, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.9802  
 Step 113: Loss: 0.0258, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0013, Distance: 4.9014  
 Step 114: Loss: 0.0256, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.8253  
 Step 115: Loss: 0.0254, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.7520  
 Step 116: Loss: 0.0253, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.6820  
 Step 117: Loss: 0.0251, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.6156  
 Step 118: Loss: 0.0251, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.5532  
 Step 119: Loss: 0.0250, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.4950  
 Step 120: Loss: 0.0249, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4414  
 Step 121: Loss: 0.0249, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3928  
 Step 122: Loss: 0.0249, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.3494  
 Step 123: Loss: 0.0249, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.3113  
 Step 124: Loss: 0.0249, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.2788  
 Step 125: Loss: 0.0249, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.2518  
 Step 126: Loss: 0.0249, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.2305  
 Step 127: Loss: 0.0249, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2145  
 Step 128: Loss: 0.0249, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.2037  
 Step 129: Loss: 0.0248, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.1979  
 Step 130: Loss: 0.0248, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.1965  
 Step 131: Loss: 0.0248, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.1991  
 Step 132: Loss: 0.0248, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.2052  
 Step 133: Loss: 0.0247, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.2143  
 Step 134: Loss: 0.0247, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.2257  
 Step 135: Loss: 0.0247, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.2389  
 Step 136: Loss: 0.0246, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.2534  
 Step 137: Loss: 0.0246, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0033, Distance: 4.2686  
 Step 138: Loss: 0.0246, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.2840  
 Step 139: Loss: 0.0246, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2993  
 Step 140: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.3141  
 Step 141: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3280  
 Step 142: Loss: 0.0246, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3408  
 Step 143: Loss: 0.0246, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3523  
 Step 144: Loss: 0.0246, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3624  
 Step 145: Loss: 0.0246, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3710  
 Step 146: Loss: 0.0245, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3779  
 Step 147: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3834  
 Step 148: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3872  
 Step 149: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3896  
 Step 150: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3905  
 Step 151: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3901  
 Step 152: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3886  
 Step 153: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3860  
 Step 154: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3825  
 Step 155: Loss: 0.0245, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3782  
 Step 156: Loss: 0.0245, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.3734  
 Step 157: Loss: 0.0245, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3680  
 Step 158: Loss: 0.0245, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3624  
 Step 159: Loss: 0.0245, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3565  
 Step 160: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3506  
 Step 161: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0029, Distance: 4.3224  
 Step 186: Loss: 0.0245, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3239  
 Step 187: Loss: 0.0245, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3253  
 Step 188: Loss: 0.0245, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3265  
 Step 189: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3276  
 Step 190: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3285  
 Step 191: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3291  
 Step 192: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3296  
 Step 193: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3299  
 Step 194: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3301  
 Step 195: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3301  
 Step 196: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3299  
 Step 197: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3296  
 Step 198: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3292  
 Step 199: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3287  
 Step 00: Loss: 1.1925, Total Entropy: 1.1925, Epistemic Entropy: 0.0342,  
 Aleatoric Entropy: 1.1583, Distance: 0.0000  
 Step 01: Loss: 0.7975, Total Entropy: 0.7895, Epistemic Entropy: 0.0240,  
 Aleatoric Entropy: 0.7655, Distance: 1.6000  
 Step 02: Loss: 0.4140, Total Entropy: 0.4002, Epistemic Entropy: 0.0096,  
 Aleatoric Entropy: 0.3906, Distance: 2.7532  
 Step 03: Loss: 0.1120, Total Entropy: 0.0931, Epistemic Entropy: 0.0013,  
 Aleatoric Entropy: 0.0918, Distance: 3.7786  
 Step 04: Loss: 0.0411, Total Entropy: 0.0172, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0170, Distance: 4.7874  
 Step 05: Loss: 0.0321, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 5.6996  
 Step 06: Loss: 0.0334, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 6.5033  
 Step 07: Loss: 0.0363, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 7.2081  
 Step 08: Loss: 0.0392, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.8267  
 Step 09: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.3707  
Step 10: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.8496  
Step 11: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2715  
Step 12: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6432  
Step 13: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9703  
Step 14: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2577  
Step 15: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.5096  
Step 16: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.7296  
Step 17: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.9208  
Step 18: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.0861  
Step 19: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.2279  
Step 20: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.3484  
Step 21: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.4496  
Step 22: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.5332  
Step 23: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6008  
Step 24: Loss: 0.0583, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6539  
Step 25: Loss: 0.0585, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6937  
Step 26: Loss: 0.0586, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.7214  
Step 27: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.7380  
Step 28: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.7446  
Step 29: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.7420  
Step 30: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.7310  
Step 31: Loss: 0.0586, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.7123  
Step 32: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 11.6866  
Step 33: Loss: 0.0583, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.6545  
 Step 34: Loss: 0.0581, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6166  
 Step 35: Loss: 0.0579, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5732  
 Step 36: Loss: 0.0576, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5250  
 Step 37: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4723  
 Step 38: Loss: 0.0571, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4155  
 Step 39: Loss: 0.0568, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3550  
 Step 40: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2910  
 Step 41: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2239  
 Step 42: Loss: 0.0558, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1539  
 Step 43: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0812  
 Step 44: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0062  
 Step 45: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9289  
 Step 46: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8496  
 Step 47: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7685  
 Step 48: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6857  
 Step 49: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6013  
 Step 50: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5155  
 Step 51: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4284  
 Step 52: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3401  
 Step 53: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2507  
 Step 54: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1604  
 Step 55: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0691  
 Step 56: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9771  
 Step 57: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.8843  
 Step 58: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7908  
 Step 59: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6966  
 Step 60: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6020  
 Step 61: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5068  
 Step 62: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4112  
 Step 63: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3152  
 Step 64: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2188  
 Step 65: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1220  
 Step 66: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0250  
 Step 67: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9278  
 Step 68: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8303  
 Step 69: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7326  
 Step 70: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6348  
 Step 71: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5368  
 Step 72: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4387  
 Step 73: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3405  
 Step 74: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2422  
 Step 75: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1439  
 Step 76: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0455  
 Step 77: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9471  
 Step 78: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8487  
 Step 79: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7504  
 Step 80: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6521  
 Step 81: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.5538  
 Step 82: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4556  
 Step 83: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3575  
 Step 84: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2595  
 Step 85: Loss: 0.0359, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.1617  
 Step 86: Loss: 0.0354, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0640  
 Step 87: Loss: 0.0349, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9665  
 Step 88: Loss: 0.0344, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8692  
 Step 89: Loss: 0.0340, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7721  
 Step 90: Loss: 0.0335, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6752  
 Step 91: Loss: 0.0330, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5787  
 Step 92: Loss: 0.0326, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4825  
 Step 93: Loss: 0.0321, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3866  
 Step 94: Loss: 0.0316, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2912  
 Step 95: Loss: 0.0312, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1962  
 Step 96: Loss: 0.0308, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1018  
 Step 97: Loss: 0.0303, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.0079  
 Step 98: Loss: 0.0299, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.9147  
 Step 99: Loss: 0.0295, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.8223  
 Step 100: Loss: 0.0291, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.7307  
 Step 101: Loss: 0.0287, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.6401  
 Step 102: Loss: 0.0283, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.5505  
 Step 103: Loss: 0.0280, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.4622  
 Step 104: Loss: 0.0277, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.3754  
 Step 105: Loss: 0.0273, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0009, Distance: 5.2900  
 Step 106: Loss: 0.0271, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.2065  
 Step 107: Loss: 0.0268, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 5.1250  
 Step 108: Loss: 0.0265, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 5.0458  
 Step 109: Loss: 0.0263, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.9691  
 Step 110: Loss: 0.0262, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.8953  
 Step 111: Loss: 0.0260, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.8247  
 Step 112: Loss: 0.0259, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.7575  
 Step 113: Loss: 0.0258, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.6942  
 Step 114: Loss: 0.0257, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.6351  
 Step 115: Loss: 0.0257, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.5805  
 Step 116: Loss: 0.0257, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.5308  
 Step 117: Loss: 0.0257, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.4863  
 Step 118: Loss: 0.0257, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.4470  
 Step 119: Loss: 0.0257, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.4134  
 Step 120: Loss: 0.0257, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.3854  
 Step 121: Loss: 0.0257, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 4.3630  
 Step 122: Loss: 0.0257, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 4.3462  
 Step 123: Loss: 0.0257, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.3347  
 Step 124: Loss: 0.0257, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.3283  
 Step 125: Loss: 0.0257, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.3266  
 Step 126: Loss: 0.0256, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.3291  
 Step 127: Loss: 0.0256, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 4.3352  
 Step 128: Loss: 0.0256, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.3446  
 Step 129: Loss: 0.0255, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0037, Distance: 4.3564  
 Step 130: Loss: 0.0255, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.3702  
 Step 131: Loss: 0.0255, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.3855  
 Step 132: Loss: 0.0255, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.4016  
 Step 133: Loss: 0.0254, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.4180  
 Step 134: Loss: 0.0254, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.4344  
 Step 135: Loss: 0.0254, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4502  
 Step 136: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4653  
 Step 137: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4793  
 Step 138: Loss: 0.0254, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.4920  
 Step 139: Loss: 0.0254, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.5033  
 Step 140: Loss: 0.0254, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.5130  
 Step 141: Loss: 0.0254, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.5211  
 Step 142: Loss: 0.0254, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5275  
 Step 143: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5323  
 Step 144: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5356  
 Step 145: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5374  
 Step 146: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5377  
 Step 147: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5369  
 Step 148: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5348  
 Step 149: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5318  
 Step 150: Loss: 0.0254, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5280  
 Step 151: Loss: 0.0254, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.5234  
 Step 152: Loss: 0.0254, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.5183  
 Step 153: Loss: 0.0254, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0028, Distance: 4.5128  
 Step 154: Loss: 0.0254, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.5071  
 Step 155: Loss: 0.0254, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.5012  
 Step 156: Loss: 0.0254, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.4953  
 Step 157: Loss: 0.0254, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.4896  
 Step 158: Loss: 0.0254, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.4841  
 Step 159: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4789  
 Step 160: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4741  
 Step 161: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4697  
 Step 162: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4659  
 Step 163: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4625  
 Step 164: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4598  
 Step 165: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4576  
 Step 166: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4559  
 Step 167: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4548  
 Step 168: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4541  
 Step 169: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4540  
 Step 170: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4542  
 Step 171: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4548  
 Step 172: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4558  
 Step 173: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.4570  
 Step 174: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4584  
 Step 175: Loss: 0.0254, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4599  
 Step 176: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4616  
 Step 177: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0030, Distance: 4.4633  
 Step 178: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4650  
 Step 179: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4667  
 Step 180: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4683  
 Step 181: Loss: 0.0254, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4698  
 Step 182: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4712  
 Step 183: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4724  
 Step 184: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4735  
 Step 185: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4743  
 Step 186: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4751  
 Step 187: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4756  
 Step 188: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4760  
 Step 189: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4762  
 Step 190: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4762  
 Step 191: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4762  
 Step 192: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4760  
 Step 193: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4757  
 Step 194: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4753  
 Step 195: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4748  
 Step 196: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4743  
 Step 197: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4737  
 Step 198: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4732  
 Step 199: Loss: 0.0253, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4726  
 Step 00: Loss: 1.1606, Total Entropy: 1.1606, Epistemic Entropy: 0.0377,  
 Aleatoric Entropy: 1.1229, Distance: 0.0000  
 Step 01: Loss: 0.9059, Total Entropy: 0.8979, Epistemic Entropy: 0.0371,

Aleatoric Entropy: 0.8608, Distance: 1.6000  
 Step 02: Loss: 0.5024, Total Entropy: 0.4893, Epistemic Entropy: 0.0258,  
 Aleatoric Entropy: 0.4635, Distance: 2.6292  
 Step 03: Loss: 0.1350, Total Entropy: 0.1174, Epistemic Entropy: 0.0056,  
 Aleatoric Entropy: 0.1118, Distance: 3.5241  
 Step 04: Loss: 0.0417, Total Entropy: 0.0193, Epistemic Entropy: 0.0008,  
 Aleatoric Entropy: 0.0186, Distance: 4.4778  
 Step 05: Loss: 0.0304, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 5.3695  
 Step 06: Loss: 0.0316, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 6.1662  
 Step 07: Loss: 0.0346, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.8706  
 Step 08: Loss: 0.0375, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.4923  
 Step 09: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0413  
 Step 10: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5265  
 Step 11: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9554  
 Step 12: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3346  
 Step 13: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6694  
 Step 14: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9647  
 Step 15: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2244  
 Step 16: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4522  
 Step 17: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6512  
 Step 18: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8240  
 Step 19: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9733  
 Step 20: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1010  
 Step 21: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2093  
 Step 22: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2997  
 Step 23: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3740  
 Step 24: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4335  
 Step 25: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.4795  
 Step 26: Loss: 0.0576, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5132  
 Step 27: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5356  
 Step 28: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5477  
 Step 29: Loss: 0.0578, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5504  
 Step 30: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5445  
 Step 31: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5307  
 Step 32: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5097  
 Step 33: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4820  
 Step 34: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4482  
 Step 35: Loss: 0.0570, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4089  
 Step 36: Loss: 0.0568, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3645  
 Step 37: Loss: 0.0566, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3155  
 Step 38: Loss: 0.0563, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2621  
 Step 39: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2048  
 Step 40: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1439  
 Step 41: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0797  
 Step 42: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0125  
 Step 43: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9425  
 Step 44: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8700  
 Step 45: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7951  
 Step 46: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7181  
 Step 47: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6391  
 Step 48: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5583  
 Step 49: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.4759  
 Step 50: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3919  
 Step 51: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3066  
 Step 52: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2200  
 Step 53: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1322  
 Step 54: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0434  
 Step 55: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9535  
 Step 56: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8628  
 Step 57: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7712  
 Step 58: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6789  
 Step 59: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5859  
 Step 60: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4922  
 Step 61: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3980  
 Step 62: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3032  
 Step 63: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2079  
 Step 64: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1122  
 Step 65: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0162  
 Step 66: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9197  
 Step 67: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8230  
 Step 68: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7259  
 Step 69: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6286  
 Step 70: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5310  
 Step 71: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4333  
 Step 72: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3354  
 Step 73: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.2373  
 Step 74: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1391  
 Step 75: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0408  
 Step 76: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9424  
 Step 77: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8440  
 Step 78: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7455  
 Step 79: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6470  
 Step 80: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5485  
 Step 81: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4500  
 Step 82: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3515  
 Step 83: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2531  
 Step 84: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1548  
 Step 85: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0566  
 Step 86: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9585  
 Step 87: Loss: 0.0344, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8605  
 Step 88: Loss: 0.0339, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7627  
 Step 89: Loss: 0.0334, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6651  
 Step 90: Loss: 0.0329, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5678  
 Step 91: Loss: 0.0325, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4707  
 Step 92: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3739  
 Step 93: Loss: 0.0315, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2774  
 Step 94: Loss: 0.0311, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1814  
 Step 95: Loss: 0.0306, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0857  
 Step 96: Loss: 0.0302, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9906  
 Step 97: Loss: 0.0298, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0003, Distance: 5.8961  
 Step 98: Loss: 0.0293, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8023  
 Step 99: Loss: 0.0289, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.7092  
 Step 100: Loss: 0.0285, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6169  
 Step 101: Loss: 0.0281, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.5257  
 Step 102: Loss: 0.0278, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.4356  
 Step 103: Loss: 0.0274, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.3467  
 Step 104: Loss: 0.0271, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.2594  
 Step 105: Loss: 0.0268, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.1737  
 Step 106: Loss: 0.0265, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.0900  
 Step 107: Loss: 0.0262, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 5.0084  
 Step 108: Loss: 0.0260, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.9293  
 Step 109: Loss: 0.0258, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.8529  
 Step 110: Loss: 0.0256, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.7797  
 Step 111: Loss: 0.0255, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.7099  
 Step 112: Loss: 0.0254, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.6439  
 Step 113: Loss: 0.0253, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.5821  
 Step 114: Loss: 0.0252, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.5249  
 Step 115: Loss: 0.0252, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.4726  
 Step 116: Loss: 0.0252, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.4255  
 Step 117: Loss: 0.0252, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 4.3839  
 Step 118: Loss: 0.0252, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 4.3480  
 Step 119: Loss: 0.0252, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 4.3179  
 Step 120: Loss: 0.0251, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 4.2937  
 Step 121: Loss: 0.0251, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0037, Distance: 4.2752  
 Step 122: Loss: 0.0251, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 4.2622  
 Step 123: Loss: 0.0251, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 4.2544  
 Step 124: Loss: 0.0251, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 4.2516  
 Step 125: Loss: 0.0250, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 4.2531  
 Step 126: Loss: 0.0250, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 4.2584  
 Step 127: Loss: 0.0250, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 4.2669  
 Step 128: Loss: 0.0249, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 4.2781  
 Step 129: Loss: 0.0249, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 4.2913  
 Step 130: Loss: 0.0249, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 4.3059  
 Step 131: Loss: 0.0249, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 4.3213  
 Step 132: Loss: 0.0249, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.3371  
 Step 133: Loss: 0.0248, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 4.3528  
 Step 134: Loss: 0.0248, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3679  
 Step 135: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3822  
 Step 136: Loss: 0.0248, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3953  
 Step 137: Loss: 0.0248, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4071  
 Step 138: Loss: 0.0248, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4174  
 Step 139: Loss: 0.0248, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4261  
 Step 140: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4331  
 Step 141: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4384  
 Step 142: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4421  
 Step 143: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.4443  
 Step 144: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.4450  
 Step 145: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 4.4444  
 Step 146: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.4425  
 Step 147: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4395  
 Step 148: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4357  
 Step 149: Loss: 0.0248, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4311  
 Step 150: Loss: 0.0248, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4258  
 Step 151: Loss: 0.0248, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.4202  
 Step 152: Loss: 0.0248, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4143  
 Step 153: Loss: 0.0248, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4082  
 Step 154: Loss: 0.0248, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.4022  
 Step 155: Loss: 0.0248, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3963  
 Step 156: Loss: 0.0248, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3906  
 Step 157: Loss: 0.0248, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3853  
 Step 158: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3804  
 Step 159: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3761  
 Step 160: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3722  
 Step 161: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3689  
 Step 162: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3663  
 Step 163: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3642  
 Step 164: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3627  
 Step 165: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3618  
 Step 166: Loss: 0.0248, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3614  
 Step 167: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3615  
 Step 168: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.3620  
 Step 169: Loss: 0.0248, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,

[illegible]

Aleatoric Entropy: 0.0028, Distance: 4.3813  
 Step 194: Loss: 0.0247, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3807  
 Step 195: Loss: 0.0247, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3800  
 Step 196: Loss: 0.0247, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3794  
 Step 197: Loss: 0.0247, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3787  
 Step 198: Loss: 0.0247, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3782  
 Step 199: Loss: 0.0247, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3776  
 Step 00: Loss: 1.1328, Total Entropy: 1.1328, Epistemic Entropy: 0.0060,  
 Aleatoric Entropy: 1.1267, Distance: 0.0000  
 Step 01: Loss: 0.2638, Total Entropy: 0.2558, Epistemic Entropy: 0.0017,  
 Aleatoric Entropy: 0.2541, Distance: 1.6000  
 Step 02: Loss: 0.0556, Total Entropy: 0.0404, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0402, Distance: 3.0380  
 Step 03: Loss: 0.0295, Total Entropy: 0.0085, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0084, Distance: 4.2121  
 Step 04: Loss: 0.0282, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 5.1742  
 Step 05: Loss: 0.0307, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.9775  
 Step 06: Loss: 0.0336, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.6581  
 Step 07: Loss: 0.0364, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 7.2406  
 Step 08: Loss: 0.0388, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.7425  
 Step 09: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1768  
 Step 10: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5535  
 Step 11: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8804  
 Step 12: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1641  
 Step 13: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4097  
 Step 14: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6218  
 Step 15: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8041  
 Step 16: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9599  
 Step 17: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.0921  
 Step 18: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2030  
 Step 19: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2948  
 Step 20: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3696  
 Step 21: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4289  
 Step 22: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4744  
 Step 23: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5073  
 Step 24: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5289  
 Step 25: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5403  
 Step 26: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5425  
 Step 27: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5364  
 Step 28: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5227  
 Step 29: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5022  
 Step 30: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4755  
 Step 31: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4432  
 Step 32: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4059  
 Step 33: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3641  
 Step 34: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3181  
 Step 35: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2684  
 Step 36: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2153  
 Step 37: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1591  
 Step 38: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1002  
 Step 39: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0388  
 Step 40: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9751  
 Step 41: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.9093  
 Step 42: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8417  
 Step 43: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7724  
 Step 44: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7016  
 Step 45: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6294  
 Step 46: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5560  
 Step 47: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4815  
 Step 48: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4060  
 Step 49: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3295  
 Step 50: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2523  
 Step 51: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1744  
 Step 52: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0958  
 Step 53: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0168  
 Step 54: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9372  
 Step 55: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8572  
 Step 56: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7768  
 Step 57: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6962  
 Step 58: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6153  
 Step 59: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5342  
 Step 60: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4529  
 Step 61: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3715  
 Step 62: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2899  
 Step 63: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2084  
 Step 64: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1267  
 Step 65: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0451  
 Step 66: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9634  
 Step 67: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8818  
 Step 68: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8003  
 Step 69: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7187  
 Step 70: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6373  
 Step 71: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5559  
 Step 72: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4747  
 Step 73: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3935  
 Step 74: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3125  
 Step 75: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2316  
 Step 76: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1508  
 Step 77: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0702  
 Step 78: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9897  
 Step 79: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9094  
 Step 80: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8293  
 Step 81: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7493  
 Step 82: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6695  
 Step 83: Loss: 0.0330, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5899  
 Step 84: Loss: 0.0326, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5106  
 Step 85: Loss: 0.0322, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4314  
 Step 86: Loss: 0.0318, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3525  
 Step 87: Loss: 0.0315, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2738  
 Step 88: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1954  
 Step 89: Loss: 0.0307, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.1172  
 Step 90: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0393  
 Step 91: Loss: 0.0299, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9618  
 Step 92: Loss: 0.0296, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.8846  
 Step 93: Loss: 0.0292, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.8077  
 Step 94: Loss: 0.0288, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7312  
 Step 95: Loss: 0.0285, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6552  
 Step 96: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5795  
 Step 97: Loss: 0.0278, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.5044  
 Step 98: Loss: 0.0275, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4298  
 Step 99: Loss: 0.0271, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3558  
 Step 100: Loss: 0.0268, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2824  
 Step 101: Loss: 0.0265, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2097  
 Step 102: Loss: 0.0262, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1377  
 Step 103: Loss: 0.0259, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.0666  
 Step 104: Loss: 0.0256, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.9963  
 Step 105: Loss: 0.0253, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.9270  
 Step 106: Loss: 0.0251, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.8588  
 Step 107: Loss: 0.0248, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.7918  
 Step 108: Loss: 0.0246, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.7261  
 Step 109: Loss: 0.0244, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.6618  
 Step 110: Loss: 0.0242, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.5990  
 Step 111: Loss: 0.0240, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.5379  
 Step 112: Loss: 0.0238, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.4787  
 Step 113: Loss: 0.0237, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0015, Distance: 4.4214  
 Step 114: Loss: 0.0235, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.3662  
 Step 115: Loss: 0.0234, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.3134  
 Step 116: Loss: 0.0233, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.2631  
 Step 117: Loss: 0.0232, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.2154  
 Step 118: Loss: 0.0232, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.1705  
 Step 119: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1285  
 Step 120: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0896  
 Step 121: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0540  
 Step 122: Loss: 0.0230, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0216  
 Step 123: Loss: 0.0230, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9926  
 Step 124: Loss: 0.0230, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.9670  
 Step 125: Loss: 0.0230, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9448  
 Step 126: Loss: 0.0230, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.9260  
 Step 127: Loss: 0.0230, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.9105  
 Step 128: Loss: 0.0230, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8982  
 Step 129: Loss: 0.0230, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8889  
 Step 130: Loss: 0.0230, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8824  
 Step 131: Loss: 0.0230, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.8786  
 Step 132: Loss: 0.0230, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8772  
 Step 133: Loss: 0.0229, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8780  
 Step 134: Loss: 0.0229, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8806  
 Step 135: Loss: 0.0229, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8847  
 Step 136: Loss: 0.0229, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.8902  
 Step 137: Loss: 0.0229, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0034, Distance: 3.8968  
 Step 138: Loss: 0.0229, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9041  
 Step 139: Loss: 0.0229, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9120  
 Step 140: Loss: 0.0228, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.9202  
 Step 141: Loss: 0.0228, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.9285  
 Step 142: Loss: 0.0228, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.9367  
 Step 143: Loss: 0.0228, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.9447  
 Step 144: Loss: 0.0228, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9523  
 Step 145: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9594  
 Step 146: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9660  
 Step 147: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9719  
 Step 148: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9771  
 Step 149: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9817  
 Step 150: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9855  
 Step 151: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9885  
 Step 152: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9909  
 Step 153: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9926  
 Step 154: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9937  
 Step 155: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9942  
 Step 156: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9941  
 Step 157: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9935  
 Step 158: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9925  
 Step 159: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9911  
 Step 160: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9894  
 Step 161: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0030, Distance: 3.9570  
 Step 186: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9575  
 Step 187: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9580  
 Step 188: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9585  
 Step 189: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9590  
 Step 190: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9596  
 Step 191: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9602  
 Step 192: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9607  
 Step 193: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9612  
 Step 194: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9617  
 Step 195: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9622  
 Step 196: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9626  
 Step 197: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9629  
 Step 198: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9632  
 Step 199: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9635  
 Step 00: Loss: 1.1154, Total Entropy: 1.1154, Epistemic Entropy: 0.0382,  
 Aleatoric Entropy: 1.0772, Distance: 0.0000  
 Step 01: Loss: 0.4486, Total Entropy: 0.4406, Epistemic Entropy: 0.0132,  
 Aleatoric Entropy: 0.4274, Distance: 1.6000  
 Step 02: Loss: 0.0894, Total Entropy: 0.0750, Epistemic Entropy: 0.0016,  
 Aleatoric Entropy: 0.0735, Distance: 2.8725  
 Step 03: Loss: 0.0328, Total Entropy: 0.0126, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0124, Distance: 4.0410  
 Step 04: Loss: 0.0279, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 5.0323  
 Step 05: Loss: 0.0301, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.8729  
 Step 06: Loss: 0.0332, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.5927  
 Step 07: Loss: 0.0362, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.2143  
 Step 08: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7546  
 Step 09: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.2263  
 Step 10: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6392  
 Step 11: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0011  
 Step 12: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3184  
 Step 13: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5963  
 Step 14: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8392  
 Step 15: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0509  
 Step 16: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2346  
 Step 17: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3932  
 Step 18: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5290  
 Step 19: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6443  
 Step 20: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7410  
 Step 21: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8207  
 Step 22: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8851  
 Step 23: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9354  
 Step 24: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9730  
 Step 25: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9990  
 Step 26: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0143  
 Step 27: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0199  
 Step 28: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0166  
 Step 29: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0052  
 Step 30: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9863  
 Step 31: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9607  
 Step 32: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9288  
 Step 33: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.8912  
 Step 34: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8484  
 Step 35: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8008  
 Step 36: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7488  
 Step 37: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6928  
 Step 38: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6331  
 Step 39: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5700  
 Step 40: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5039  
 Step 41: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4349  
 Step 42: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3633  
 Step 43: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2894  
 Step 44: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2132  
 Step 45: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1351  
 Step 46: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0551  
 Step 47: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9734  
 Step 48: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8902  
 Step 49: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8056  
 Step 50: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7197  
 Step 51: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6327  
 Step 52: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5445  
 Step 53: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4553  
 Step 54: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3653  
 Step 55: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2744  
 Step 56: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1827  
 Step 57: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.0904  
 Step 58: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9974  
 Step 59: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9038  
 Step 60: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8097  
 Step 61: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7151  
 Step 62: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6201  
 Step 63: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5247  
 Step 64: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4290  
 Step 65: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3329  
 Step 66: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2365  
 Step 67: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1399  
 Step 68: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0430  
 Step 69: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9459  
 Step 70: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8487  
 Step 71: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7513  
 Step 72: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6537  
 Step 73: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5561  
 Step 74: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4583  
 Step 75: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3605  
 Step 76: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2627  
 Step 77: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1648  
 Step 78: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0669  
 Step 79: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9690  
 Step 80: Loss: 0.0344, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8712  
 Step 81: Loss: 0.0339, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.7735  
 Step 82: Loss: 0.0334, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6758  
 Step 83: Loss: 0.0330, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5783  
 Step 84: Loss: 0.0325, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4810  
 Step 85: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3839  
 Step 86: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2870  
 Step 87: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1904  
 Step 88: Loss: 0.0306, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0941  
 Step 89: Loss: 0.0302, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9982  
 Step 90: Loss: 0.0297, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9028  
 Step 91: Loss: 0.0293, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8079  
 Step 92: Loss: 0.0289, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.7137  
 Step 93: Loss: 0.0285, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6201  
 Step 94: Loss: 0.0281, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.5273  
 Step 95: Loss: 0.0277, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.4355  
 Step 96: Loss: 0.0273, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.3448  
 Step 97: Loss: 0.0269, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.2552  
 Step 98: Loss: 0.0266, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.1670  
 Step 99: Loss: 0.0263, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.0805  
 Step 100: Loss: 0.0260, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.9957  
 Step 101: Loss: 0.0257, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.9129  
 Step 102: Loss: 0.0255, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.8325  
 Step 103: Loss: 0.0252, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.7546  
 Step 104: Loss: 0.0251, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.6797  
 Step 105: Loss: 0.0249, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0019, Distance: 4.6080  
 Step 106: Loss: 0.0248, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.5398  
 Step 107: Loss: 0.0247, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.4756  
 Step 108: Loss: 0.0246, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.4157  
 Step 109: Loss: 0.0246, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3604  
 Step 110: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.3101  
 Step 111: Loss: 0.0246, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.2651  
 Step 112: Loss: 0.0246, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.2255  
 Step 113: Loss: 0.0246, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.1917  
 Step 114: Loss: 0.0247, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.1636  
 Step 115: Loss: 0.0247, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 4.1413  
 Step 116: Loss: 0.0247, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.1247  
 Step 117: Loss: 0.0247, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0041, Distance: 4.1136  
 Step 118: Loss: 0.0247, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0041, Distance: 4.1077  
 Step 119: Loss: 0.0246, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0041, Distance: 4.1066  
 Step 120: Loss: 0.0246, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.1098  
 Step 121: Loss: 0.0246, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.1169  
 Step 122: Loss: 0.0246, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 4.1272  
 Step 123: Loss: 0.0245, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.1401  
 Step 124: Loss: 0.0245, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1551  
 Step 125: Loss: 0.0245, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.1715  
 Step 126: Loss: 0.0244, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.1888  
 Step 127: Loss: 0.0244, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.2065  
 Step 128: Loss: 0.0244, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.2241  
 Step 129: Loss: 0.0244, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0032, Distance: 4.2411  
 Step 130: Loss: 0.0244, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.2574  
 Step 131: Loss: 0.0244, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.2725  
 Step 132: Loss: 0.0244, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2862  
 Step 133: Loss: 0.0244, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2984  
 Step 134: Loss: 0.0244, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3090  
 Step 135: Loss: 0.0244, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3179  
 Step 136: Loss: 0.0244, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3251  
 Step 137: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3306  
 Step 138: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3345  
 Step 139: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3367  
 Step 140: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3376  
 Step 141: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3371  
 Step 142: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3354  
 Step 143: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3326  
 Step 144: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3289  
 Step 145: Loss: 0.0244, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3245  
 Step 146: Loss: 0.0244, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3194  
 Step 147: Loss: 0.0244, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3140  
 Step 148: Loss: 0.0244, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3082  
 Step 149: Loss: 0.0243, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.3022  
 Step 150: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2963  
 Step 151: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2904  
 Step 152: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2847  
 Step 153: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0029, Distance: 4.2704  
 Step 178: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2716  
 Step 179: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2725  
 Step 180: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2733  
 Step 181: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2739  
 Step 182: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2743  
 Step 183: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2746  
 Step 184: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2747  
 Step 185: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2747  
 Step 186: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2745  
 Step 187: Loss: 0.0243, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2742  
 Step 188: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2738  
 Step 189: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2733  
 Step 190: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2728  
 Step 191: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2723  
 Step 192: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2717  
 Step 193: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2711  
 Step 194: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2705  
 Step 195: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2699  
 Step 196: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2694  
 Step 197: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2689  
 Step 198: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2685  
 Step 199: Loss: 0.0243, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2681  
 Step 00: Loss: 1.0879, Total Entropy: 1.0879, Epistemic Entropy: 0.0109,  
 Aleatoric Entropy: 1.0770, Distance: 0.0000  
 Step 01: Loss: 0.6363, Total Entropy: 0.6283, Epistemic Entropy: 0.0070,

Aleatoric Entropy: 0.6213, Distance: 1.6000  
 Step 02: Loss: 0.1669, Total Entropy: 0.1534, Epistemic Entropy: 0.0015,  
 Aleatoric Entropy: 0.1519, Distance: 2.6850  
 Step 03: Loss: 0.0428, Total Entropy: 0.0238, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0235, Distance: 3.8018  
 Step 04: Loss: 0.0283, Total Entropy: 0.0043, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0043, Distance: 4.7942  
 Step 05: Loss: 0.0292, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.6492  
 Step 06: Loss: 0.0322, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.3865  
 Step 07: Loss: 0.0352, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0259  
 Step 08: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5831  
 Step 09: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0704  
 Step 10: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4976  
 Step 11: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8725  
 Step 12: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2015  
 Step 13: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4899  
 Step 14: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7422  
 Step 15: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9624  
 Step 16: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1536  
 Step 17: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3188  
 Step 18: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4606  
 Step 19: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5811  
 Step 20: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6824  
 Step 21: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7662  
 Step 22: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8341  
 Step 23: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8875  
 Step 24: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9277  
 Step 25: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.9559  
 Step 26: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9731  
 Step 27: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9803  
 Step 28: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9784  
 Step 29: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9681  
 Step 30: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9501  
 Step 31: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9252  
 Step 32: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8939  
 Step 33: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8568  
 Step 34: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8143  
 Step 35: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7670  
 Step 36: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7152  
 Step 37: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6593  
 Step 38: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5997  
 Step 39: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5367  
 Step 40: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4706  
 Step 41: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4017  
 Step 42: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3302  
 Step 43: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2564  
 Step 44: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1803  
 Step 45: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1024  
 Step 46: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0226  
 Step 47: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9412  
 Step 48: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8583  
 Step 49: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.7741  
 Step 50: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6886  
 Step 51: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6021  
 Step 52: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5145  
 Step 53: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4260  
 Step 54: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3367  
 Step 55: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2466  
 Step 56: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1559  
 Step 57: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0645  
 Step 58: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9727  
 Step 59: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8803  
 Step 60: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7875  
 Step 61: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6943  
 Step 62: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6008  
 Step 63: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5070  
 Step 64: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4129  
 Step 65: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3186  
 Step 66: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2241  
 Step 67: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1294  
 Step 68: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0347  
 Step 69: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9398  
 Step 70: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8448  
 Step 71: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7498  
 Step 72: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6547  
 Step 73: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.5597  
 Step 74: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4646  
 Step 75: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3696  
 Step 76: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2746  
 Step 77: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1797  
 Step 78: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0848  
 Step 79: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9901  
 Step 80: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8954  
 Step 81: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8009  
 Step 82: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7065  
 Step 83: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6123  
 Step 84: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5183  
 Step 85: Loss: 0.0322, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4244  
 Step 86: Loss: 0.0317, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3308  
 Step 87: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2375  
 Step 88: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1444  
 Step 89: Loss: 0.0304, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0517  
 Step 90: Loss: 0.0299, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9593  
 Step 91: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8673  
 Step 92: Loss: 0.0290, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7757  
 Step 93: Loss: 0.0286, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6847  
 Step 94: Loss: 0.0282, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5941  
 Step 95: Loss: 0.0278, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.5042  
 Step 96: Loss: 0.0274, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4150  
 Step 97: Loss: 0.0270, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0004, Distance: 5.3266  
 Step 98: Loss: 0.0266, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2391  
 Step 99: Loss: 0.0263, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1526  
 Step 100: Loss: 0.0259, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.0673  
 Step 101: Loss: 0.0256, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.9832  
 Step 102: Loss: 0.0253, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.9007  
 Step 103: Loss: 0.0250, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.8198  
 Step 104: Loss: 0.0247, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.7409  
 Step 105: Loss: 0.0245, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.6641  
 Step 106: Loss: 0.0243, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.5897  
 Step 107: Loss: 0.0241, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.5181  
 Step 108: Loss: 0.0240, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.4495  
 Step 109: Loss: 0.0238, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.3843  
 Step 110: Loss: 0.0237, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.3229  
 Step 111: Loss: 0.0237, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.2655  
 Step 112: Loss: 0.0236, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.2125  
 Step 113: Loss: 0.0236, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1643  
 Step 114: Loss: 0.0236, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1211  
 Step 115: Loss: 0.0236, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.0832  
 Step 116: Loss: 0.0236, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.0507  
 Step 117: Loss: 0.0236, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.0238  
 Step 118: Loss: 0.0236, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.0025  
 Step 119: Loss: 0.0236, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9866  
 Step 120: Loss: 0.0236, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9760  
 Step 121: Loss: 0.0236, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0037, Distance: 3.9704  
 Step 122: Loss: 0.0236, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9694  
 Step 123: Loss: 0.0236, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9724  
 Step 124: Loss: 0.0235, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.9791  
 Step 125: Loss: 0.0235, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.9887  
 Step 126: Loss: 0.0235, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.0008  
 Step 127: Loss: 0.0234, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.0147  
 Step 128: Loss: 0.0234, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.0299  
 Step 129: Loss: 0.0234, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.0457  
 Step 130: Loss: 0.0234, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0617  
 Step 131: Loss: 0.0234, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0775  
 Step 132: Loss: 0.0234, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0927  
 Step 133: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1070  
 Step 134: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1201  
 Step 135: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1317  
 Step 136: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.1419  
 Step 137: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.1504  
 Step 138: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1573  
 Step 139: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1626  
 Step 140: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1662  
 Step 141: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1684  
 Step 142: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1690  
 Step 143: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1684  
 Step 144: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1665  
 Step 145: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 4.1637  
Step 146: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0025, Distance: 4.1599  
Step 147: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0025, Distance: 4.1554  
Step 148: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1503  
Step 149: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1448  
Step 150: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1390  
Step 151: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1331  
Step 152: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.1271  
Step 153: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.1214  
Step 154: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.1158  
Step 155: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.1106  
Step 156: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.1057  
Step 157: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.1014  
Step 158: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0976  
Step 159: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0943  
Step 160: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0916  
Step 161: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0895  
Step 162: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0879  
Step 163: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0869  
Step 164: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 4.0864  
Step 165: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 4.0864  
Step 166: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0868  
Step 167: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0875  
Step 168: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0886  
Step 169: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0027, Distance: 4.1058  
 Step 194: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1052  
 Step 195: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1046  
 Step 196: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1040  
 Step 197: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1034  
 Step 198: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1029  
 Step 199: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.1025  
 Step 00: Loss: 1.0760, Total Entropy: 1.0760, Epistemic Entropy: 0.0216,  
 Aleatoric Entropy: 1.0544, Distance: 0.0000  
 Step 01: Loss: 0.7719, Total Entropy: 0.7639, Epistemic Entropy: 0.0134,  
 Aleatoric Entropy: 0.7505, Distance: 1.6000  
 Step 02: Loss: 0.5768, Total Entropy: 0.5627, Epistemic Entropy: 0.0105,  
 Aleatoric Entropy: 0.5522, Distance: 2.8201  
 Step 03: Loss: 0.2073, Total Entropy: 0.1890, Epistemic Entropy: 0.0032,  
 Aleatoric Entropy: 0.1858, Distance: 3.6571  
 Step 04: Loss: 0.0569, Total Entropy: 0.0343, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0338, Distance: 4.5294  
 Step 05: Loss: 0.0331, Total Entropy: 0.0062, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0061, Distance: 5.3739  
 Step 06: Loss: 0.0320, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 6.1418  
 Step 07: Loss: 0.0345, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.8266  
 Step 08: Loss: 0.0373, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.4340  
 Step 09: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9721  
 Step 10: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4487  
 Step 11: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8706  
 Step 12: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2439  
 Step 13: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5739  
 Step 14: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8651  
 Step 15: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1215  
 Step 16: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3465  
 Step 17: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.5432  
 Step 18: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7143  
 Step 19: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8621  
 Step 20: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9889  
 Step 21: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0964  
 Step 22: Loss: 0.0559, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1865  
 Step 23: Loss: 0.0563, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2607  
 Step 24: Loss: 0.0566, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3203  
 Step 25: Loss: 0.0568, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3667  
 Step 26: Loss: 0.0570, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4009  
 Step 27: Loss: 0.0571, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4241  
 Step 28: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4371  
 Step 29: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4409  
 Step 30: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4362  
 Step 31: Loss: 0.0571, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4238  
 Step 32: Loss: 0.0570, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4042  
 Step 33: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3781  
 Step 34: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3460  
 Step 35: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3084  
 Step 36: Loss: 0.0563, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2658  
 Step 37: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2186  
 Step 38: Loss: 0.0558, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1672  
 Step 39: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1119  
 Step 40: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0530  
 Step 41: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.9909  
 Step 42: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9257  
 Step 43: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8578  
 Step 44: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7874  
 Step 45: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7146  
 Step 46: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6397  
 Step 47: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5628  
 Step 48: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4841  
 Step 49: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4038  
 Step 50: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3220  
 Step 51: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2388  
 Step 52: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1543  
 Step 53: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0686  
 Step 54: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9819  
 Step 55: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8942  
 Step 56: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8056  
 Step 57: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7162  
 Step 58: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6260  
 Step 59: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5352  
 Step 60: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4438  
 Step 61: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3518  
 Step 62: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2593  
 Step 63: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1664  
 Step 64: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0730  
 Step 65: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.9793  
 Step 66: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8853  
 Step 67: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7910  
 Step 68: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6964  
 Step 69: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6016  
 Step 70: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5066  
 Step 71: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4115  
 Step 72: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3162  
 Step 73: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2208  
 Step 74: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1252  
 Step 75: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0296  
 Step 76: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9340  
 Step 77: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8383  
 Step 78: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7425  
 Step 79: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6468  
 Step 80: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5510  
 Step 81: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4553  
 Step 82: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3596  
 Step 83: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2639  
 Step 84: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1683  
 Step 85: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0727  
 Step 86: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9772  
 Step 87: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8818  
 Step 88: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7865  
 Step 89: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 6.6913  
 Step 90: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5963  
 Step 91: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5013  
 Step 92: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4065  
 Step 93: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3119  
 Step 94: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2175  
 Step 95: Loss: 0.0307, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1233  
 Step 96: Loss: 0.0302, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0293  
 Step 97: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9355  
 Step 98: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8421  
 Step 99: Loss: 0.0288, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7489  
 Step 100: Loss: 0.0284, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6562  
 Step 101: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5638  
 Step 102: Loss: 0.0275, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4719  
 Step 103: Loss: 0.0271, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3806  
 Step 104: Loss: 0.0267, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2898  
 Step 105: Loss: 0.0263, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1998  
 Step 106: Loss: 0.0259, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1106  
 Step 107: Loss: 0.0255, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0224  
 Step 108: Loss: 0.0252, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9352  
 Step 109: Loss: 0.0248, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8492  
 Step 110: Loss: 0.0245, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7648  
 Step 111: Loss: 0.0242, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.6819  
 Step 112: Loss: 0.0239, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.6010  
 Step 113: Loss: 0.0237, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0011, Distance: 4.5223  
 Step 114: Loss: 0.0235, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.4461  
 Step 115: Loss: 0.0233, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.3728  
 Step 116: Loss: 0.0231, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.3026  
 Step 117: Loss: 0.0230, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.2361  
 Step 118: Loss: 0.0229, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.1737  
 Step 119: Loss: 0.0229, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.1156  
 Step 120: Loss: 0.0229, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.0625  
 Step 121: Loss: 0.0228, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.0145  
 Step 122: Loss: 0.0228, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9721  
 Step 123: Loss: 0.0229, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.9356  
 Step 124: Loss: 0.0229, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9050  
 Step 125: Loss: 0.0229, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.8806  
 Step 126: Loss: 0.0229, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8622  
 Step 127: Loss: 0.0228, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.8496  
 Step 128: Loss: 0.0228, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.8426  
 Step 129: Loss: 0.0228, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8408  
 Step 130: Loss: 0.0228, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8436  
 Step 131: Loss: 0.0227, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.8504  
 Step 132: Loss: 0.0227, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.8605  
 Step 133: Loss: 0.0226, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.8734  
 Step 134: Loss: 0.0226, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.8882  
 Step 135: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9044  
 Step 136: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9213  
 Step 137: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0028, Distance: 3.9384  
 Step 138: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9550  
 Step 139: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9709  
 Step 140: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9856  
 Step 141: Loss: 0.0225, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9989  
 Step 142: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0105  
 Step 143: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0204  
 Step 144: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0284  
 Step 145: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0345  
 Step 146: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0388  
 Step 147: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.0412  
 Step 148: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.0420  
 Step 149: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.0411  
 Step 150: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.0389  
 Step 151: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0354  
 Step 152: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0308  
 Step 153: Loss: 0.0224, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0253  
 Step 154: Loss: 0.0224, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0191  
 Step 155: Loss: 0.0224, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0124  
 Step 156: Loss: 0.0224, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0054  
 Step 157: Loss: 0.0224, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.9982  
 Step 158: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.9911  
 Step 159: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9841  
 Step 160: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9773  
 Step 161: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0025, Distance: 3.9682  
 Step 186: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9692  
 Step 187: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9700  
 Step 188: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9706  
 Step 189: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9709  
 Step 190: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9710  
 Step 191: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9708  
 Step 192: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9705  
 Step 193: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9700  
 Step 194: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9694  
 Step 195: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9687  
 Step 196: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9679  
 Step 197: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9671  
 Step 198: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9662  
 Step 199: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9653  
 Step 00: Loss: 1.0648, Total Entropy: 1.0648, Epistemic Entropy: 0.0501,  
 Aleatoric Entropy: 1.0146, Distance: 0.0000  
 Step 01: Loss: 0.7813, Total Entropy: 0.7733, Epistemic Entropy: 0.0573,  
 Aleatoric Entropy: 0.7160, Distance: 1.6000  
 Step 02: Loss: 0.6135, Total Entropy: 0.5993, Epistemic Entropy: 0.0656,  
 Aleatoric Entropy: 0.5337, Distance: 2.8378  
 Step 03: Loss: 0.2309, Total Entropy: 0.2123, Epistemic Entropy: 0.0243,  
 Aleatoric Entropy: 0.1880, Distance: 3.7161  
 Step 04: Loss: 0.0555, Total Entropy: 0.0323, Epistemic Entropy: 0.0028,  
 Aleatoric Entropy: 0.0295, Distance: 4.6322  
 Step 05: Loss: 0.0323, Total Entropy: 0.0047, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0043, Distance: 5.5192  
 Step 06: Loss: 0.0324, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 6.3227  
 Step 07: Loss: 0.0354, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 7.0378  
 Step 08: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6714  
 Step 09: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.2323  
 Step 10: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7290  
 Step 11: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1688  
 Step 12: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5581  
 Step 13: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9025  
 Step 14: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2066  
 Step 15: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4745  
 Step 16: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7099  
 Step 17: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9160  
 Step 18: Loss: 0.0555, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0955  
 Step 19: Loss: 0.0563, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2510  
 Step 20: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3846  
 Step 21: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4983  
 Step 22: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5939  
 Step 23: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6729  
 Step 24: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7369  
 Step 25: Loss: 0.0589, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7871  
 Step 26: Loss: 0.0591, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8247  
 Step 27: Loss: 0.0593, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8508  
 Step 28: Loss: 0.0593, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8664  
 Step 29: Loss: 0.0594, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8722  
 Step 30: Loss: 0.0593, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8692  
 Step 31: Loss: 0.0593, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8581  
 Step 32: Loss: 0.0592, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8394  
 Step 33: Loss: 0.0591, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.8140  
 Step 34: Loss: 0.0589, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7822  
 Step 35: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7446  
 Step 36: Loss: 0.0585, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7018  
 Step 37: Loss: 0.0583, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6540  
 Step 38: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6017  
 Step 39: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5453  
 Step 40: Loss: 0.0574, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4850  
 Step 41: Loss: 0.0571, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4212  
 Step 42: Loss: 0.0568, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3542  
 Step 43: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2842  
 Step 44: Loss: 0.0561, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2115  
 Step 45: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1362  
 Step 46: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0586  
 Step 47: Loss: 0.0549, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9788  
 Step 48: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8970  
 Step 49: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8134  
 Step 50: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7281  
 Step 51: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6413  
 Step 52: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5530  
 Step 53: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4634  
 Step 54: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3726  
 Step 55: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2807  
 Step 56: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1877  
 Step 57: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.0938  
 Step 58: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9991  
 Step 59: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9035  
 Step 60: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8071  
 Step 61: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7101  
 Step 62: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6125  
 Step 63: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5143  
 Step 64: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4155  
 Step 65: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3162  
 Step 66: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2165  
 Step 67: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1164  
 Step 68: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0159  
 Step 69: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9151  
 Step 70: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8139  
 Step 71: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7124  
 Step 72: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6107  
 Step 73: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5087  
 Step 74: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4065  
 Step 75: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3041  
 Step 76: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2015  
 Step 77: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0988  
 Step 78: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9959  
 Step 79: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8928  
 Step 80: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7897  
 Step 81: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 7.6865  
 Step 82: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5832  
 Step 83: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4798  
 Step 84: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3764  
 Step 85: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2730  
 Step 86: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1696  
 Step 87: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0662  
 Step 88: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9628  
 Step 89: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8594  
 Step 90: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7561  
 Step 91: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6529  
 Step 92: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5499  
 Step 93: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4469  
 Step 94: Loss: 0.0318, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3441  
 Step 95: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2415  
 Step 96: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1392  
 Step 97: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0371  
 Step 98: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9353  
 Step 99: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8339  
 Step 100: Loss: 0.0288, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7329  
 Step 101: Loss: 0.0284, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6325  
 Step 102: Loss: 0.0279, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5326  
 Step 103: Loss: 0.0274, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4334  
 Step 104: Loss: 0.0270, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3349  
 Step 105: Loss: 0.0266, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 5.2374  
 Step 106: Loss: 0.0262, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1409  
 Step 107: Loss: 0.0258, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.0457  
 Step 108: Loss: 0.0254, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.9519  
 Step 109: Loss: 0.0251, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.8598  
 Step 110: Loss: 0.0247, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.7696  
 Step 111: Loss: 0.0245, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.6815  
 Step 112: Loss: 0.0242, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.5961  
 Step 113: Loss: 0.0240, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.5135  
 Step 114: Loss: 0.0238, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.4342  
 Step 115: Loss: 0.0237, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.3587  
 Step 116: Loss: 0.0236, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.2874  
 Step 117: Loss: 0.0235, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 4.2208  
 Step 118: Loss: 0.0234, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1594  
 Step 119: Loss: 0.0234, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.1037  
 Step 120: Loss: 0.0234, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0540  
 Step 121: Loss: 0.0235, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 4.0108  
 Step 122: Loss: 0.0235, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.9744  
 Step 123: Loss: 0.0235, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.9448  
 Step 124: Loss: 0.0235, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.9222  
 Step 125: Loss: 0.0235, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.9065  
 Step 126: Loss: 0.0235, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.8973  
 Step 127: Loss: 0.0235, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.8943  
 Step 128: Loss: 0.0235, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.8969  
 Step 129: Loss: 0.0234, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0038, Distance: 3.9045  
 Step 130: Loss: 0.0234, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.9162  
 Step 131: Loss: 0.0233, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.9314  
 Step 132: Loss: 0.0233, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.9491  
 Step 133: Loss: 0.0232, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.9686  
 Step 134: Loss: 0.0232, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.9891  
 Step 135: Loss: 0.0232, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0100  
 Step 136: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.0305  
 Step 137: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.0503  
 Step 138: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0687  
 Step 139: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.0855  
 Step 140: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1004  
 Step 141: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1132  
 Step 142: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1238  
 Step 143: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1321  
 Step 144: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1382  
 Step 145: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1421  
 Step 146: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1440  
 Step 147: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1439  
 Step 148: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1420  
 Step 149: Loss: 0.0231, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1386  
 Step 150: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1338  
 Step 151: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1279  
 Step 152: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1211  
 Step 153: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0025, Distance: 4.1135  
Step 154: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0025, Distance: 4.1055  
Step 155: Loss: 0.0231, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0026, Distance: 4.0972  
Step 156: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0026, Distance: 4.0888  
Step 157: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0026, Distance: 4.0806  
Step 158: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0027, Distance: 4.0726  
Step 159: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0027, Distance: 4.0651  
Step 160: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0027, Distance: 4.0582  
Step 161: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0519  
Step 162: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0463  
Step 163: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0415  
Step 164: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0376  
Step 165: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0346  
Step 166: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0029, Distance: 4.0324  
Step 167: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0029, Distance: 4.0310  
Step 168: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0029, Distance: 4.0303  
Step 169: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0029, Distance: 4.0304  
Step 170: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0029, Distance: 4.0311  
Step 171: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0029, Distance: 4.0324  
Step 172: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0341  
Step 173: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0362  
Step 174: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0386  
Step 175: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0412  
Step 176: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0028, Distance: 4.0439  
Step 177: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0028, Distance: 4.0466  
 Step 178: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.0492  
 Step 179: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.0517  
 Step 180: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0541  
 Step 181: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0562  
 Step 182: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0581  
 Step 183: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0597  
 Step 184: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0610  
 Step 185: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0620  
 Step 186: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0627  
 Step 187: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0631  
 Step 188: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0632  
 Step 189: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0631  
 Step 190: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0627  
 Step 191: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0622  
 Step 192: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0614  
 Step 193: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0606  
 Step 194: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0596  
 Step 195: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0586  
 Step 196: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0576  
 Step 197: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0565  
 Step 198: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0555  
 Step 199: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0545  
 Step 00: Loss: 1.0614, Total Entropy: 1.0614, Epistemic Entropy: 0.0458,  
 Aleatoric Entropy: 1.0156, Distance: 0.0000  
 Step 01: Loss: 0.7861, Total Entropy: 0.7781, Epistemic Entropy: 0.0414,

Aleatoric Entropy: 0.7367, Distance: 1.6000  
 Step 02: Loss: 0.6793, Total Entropy: 0.6647, Epistemic Entropy: 0.0422,  
 Aleatoric Entropy: 0.6225, Distance: 2.9352  
 Step 03: Loss: 0.3503, Total Entropy: 0.3314, Epistemic Entropy: 0.0265,  
 Aleatoric Entropy: 0.3049, Distance: 3.7878  
 Step 04: Loss: 0.0950, Total Entropy: 0.0720, Epistemic Entropy: 0.0053,  
 Aleatoric Entropy: 0.0667, Distance: 4.6113  
 Step 05: Loss: 0.0396, Total Entropy: 0.0122, Epistemic Entropy: 0.0008,  
 Aleatoric Entropy: 0.0114, Distance: 5.4739  
 Step 06: Loss: 0.0338, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 6.2884  
 Step 07: Loss: 0.0357, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 7.0275  
 Step 08: Loss: 0.0386, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 7.6894  
 Step 09: Loss: 0.0415, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 8.2794  
 Step 10: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8042  
 Step 11: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2705  
 Step 12: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6844  
 Step 13: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0511  
 Step 14: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3755  
 Step 15: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6618  
 Step 16: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9135  
 Step 17: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1341  
 Step 18: Loss: 0.0566, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3264  
 Step 19: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4930  
 Step 20: Loss: 0.0582, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6362  
 Step 21: Loss: 0.0588, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7581  
 Step 22: Loss: 0.0593, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8607  
 Step 23: Loss: 0.0597, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9455  
 Step 24: Loss: 0.0601, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0141  
 Step 25: Loss: 0.0603, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 12.0680  
 Step 26: Loss: 0.0605, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1083  
 Step 27: Loss: 0.0607, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1362  
 Step 28: Loss: 0.0608, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1528  
 Step 29: Loss: 0.0608, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1590  
 Step 30: Loss: 0.0608, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1557  
 Step 31: Loss: 0.0607, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1436  
 Step 32: Loss: 0.0606, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1236  
 Step 33: Loss: 0.0605, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0961  
 Step 34: Loss: 0.0603, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0620  
 Step 35: Loss: 0.0601, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0216  
 Step 36: Loss: 0.0599, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9756  
 Step 37: Loss: 0.0596, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9243  
 Step 38: Loss: 0.0593, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8683  
 Step 39: Loss: 0.0590, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8078  
 Step 40: Loss: 0.0587, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7432  
 Step 41: Loss: 0.0584, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6749  
 Step 42: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6032  
 Step 43: Loss: 0.0576, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5283  
 Step 44: Loss: 0.0573, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4505  
 Step 45: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3700  
 Step 46: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2871  
 Step 47: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2018  
 Step 48: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1145  
 Step 49: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.0252  
 Step 50: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9341  
 Step 51: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8414  
 Step 52: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7472  
 Step 53: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6515  
 Step 54: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5546  
 Step 55: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4564  
 Step 56: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3572  
 Step 57: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2569  
 Step 58: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1557  
 Step 59: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0536  
 Step 60: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9506  
 Step 61: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8470  
 Step 62: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7426  
 Step 63: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6376  
 Step 64: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5320  
 Step 65: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4259  
 Step 66: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3192  
 Step 67: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2120  
 Step 68: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1044  
 Step 69: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9964  
 Step 70: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8881  
 Step 71: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7793  
 Step 72: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6703  
 Step 73: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.5609  
 Step 74: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4513  
 Step 75: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3414  
 Step 76: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2313  
 Step 77: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1209  
 Step 78: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0104  
 Step 79: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8997  
 Step 80: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7888  
 Step 81: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6778  
 Step 82: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5667  
 Step 83: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4555  
 Step 84: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3443  
 Step 85: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2330  
 Step 86: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1217  
 Step 87: Loss: 0.0351, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0104  
 Step 88: Loss: 0.0346, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8991  
 Step 89: Loss: 0.0340, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7879  
 Step 90: Loss: 0.0335, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6769  
 Step 91: Loss: 0.0329, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5659  
 Step 92: Loss: 0.0324, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4552  
 Step 93: Loss: 0.0319, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3447  
 Step 94: Loss: 0.0313, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2346  
 Step 95: Loss: 0.0308, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1248  
 Step 96: Loss: 0.0303, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0155  
 Step 97: Loss: 0.0298, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0003, Distance: 5.9067  
 Step 98: Loss: 0.0293, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.7986  
 Step 99: Loss: 0.0288, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6913  
 Step 100: Loss: 0.0284, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.5849  
 Step 101: Loss: 0.0279, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.4796  
 Step 102: Loss: 0.0275, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.3757  
 Step 103: Loss: 0.0271, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.2733  
 Step 104: Loss: 0.0267, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.1728  
 Step 105: Loss: 0.0264, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.0744  
 Step 106: Loss: 0.0261, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.9785  
 Step 107: Loss: 0.0258, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.8855  
 Step 108: Loss: 0.0256, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 4.7960  
 Step 109: Loss: 0.0254, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 4.7103  
 Step 110: Loss: 0.0253, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 4.6291  
 Step 111: Loss: 0.0252, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 4.5528  
 Step 112: Loss: 0.0251, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.4823  
 Step 113: Loss: 0.0251, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.4179  
 Step 114: Loss: 0.0251, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 4.3603  
 Step 115: Loss: 0.0251, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 4.3100  
 Step 116: Loss: 0.0251, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 4.2675  
 Step 117: Loss: 0.0252, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 4.2328  
 Step 118: Loss: 0.0252, Total Entropy: 0.0042, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0040, Distance: 4.2062  
 Step 119: Loss: 0.0252, Total Entropy: 0.0042, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0041, Distance: 4.1876  
 Step 120: Loss: 0.0252, Total Entropy: 0.0043, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0041, Distance: 4.1767  
 Step 121: Loss: 0.0251, Total Entropy: 0.0043, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0041, Distance: 4.1730  
 Step 122: Loss: 0.0251, Total Entropy: 0.0042, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0041, Distance: 4.1759  
 Step 123: Loss: 0.0250, Total Entropy: 0.0041, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0040, Distance: 4.1846  
 Step 124: Loss: 0.0250, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 4.1981  
 Step 125: Loss: 0.0249, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 4.2156  
 Step 126: Loss: 0.0249, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 4.2360  
 Step 127: Loss: 0.0248, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 4.2584  
 Step 128: Loss: 0.0248, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 4.2818  
 Step 129: Loss: 0.0247, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.3055  
 Step 130: Loss: 0.0247, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 4.3287  
 Step 131: Loss: 0.0247, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3508  
 Step 132: Loss: 0.0247, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3712  
 Step 133: Loss: 0.0247, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.3897  
 Step 134: Loss: 0.0247, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.4058  
 Step 135: Loss: 0.0247, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.4194  
 Step 136: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.4303  
 Step 137: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4387  
 Step 138: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4444  
 Step 139: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4475  
 Step 140: Loss: 0.0247, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4483  
 Step 141: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4470  
 Step 142: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4436  
 Step 143: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4385  
 Step 144: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.4320  
 Step 145: Loss: 0.0247, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0025, Distance: 4.4242  
 Step 146: Loss: 0.0247, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.4155  
 Step 147: Loss: 0.0246, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.4061  
 Step 148: Loss: 0.0246, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.3963  
 Step 149: Loss: 0.0246, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.3864  
 Step 150: Loss: 0.0246, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.3765  
 Step 151: Loss: 0.0246, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.3669  
 Step 152: Loss: 0.0246, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.3578  
 Step 153: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3493  
 Step 154: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3416  
 Step 155: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3349  
 Step 156: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3291  
 Step 157: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3243  
 Step 158: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3206  
 Step 159: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3179  
 Step 160: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3162  
 Step 161: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3154  
 Step 162: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3156  
 Step 163: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3165  
 Step 164: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3181  
 Step 165: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3203  
 Step 166: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3229  
 Step 167: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3258  
 Step 168: Loss: 0.0246, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.3290  
 Step 169: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,

[illegible]

Aleatoric Entropy: 0.0028, Distance: 4.3410  
 Step 194: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3402  
 Step 195: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3395  
 Step 196: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3389  
 Step 197: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3386  
 Step 198: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3383  
 Step 199: Loss: 0.0246, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.3382  
 Step 00: Loss: 1.0542, Total Entropy: 1.0542, Epistemic Entropy: 0.0219,  
 Aleatoric Entropy: 1.0324, Distance: 0.0000  
 Step 01: Loss: 0.7856, Total Entropy: 0.7776, Epistemic Entropy: 0.0118,  
 Aleatoric Entropy: 0.7658, Distance: 1.6000  
 Step 02: Loss: 0.7228, Total Entropy: 0.7082, Epistemic Entropy: 0.0095,  
 Aleatoric Entropy: 0.6987, Distance: 2.9312  
 Step 03: Loss: 0.5242, Total Entropy: 0.5047, Epistemic Entropy: 0.0061,  
 Aleatoric Entropy: 0.4986, Distance: 3.9024  
 Step 04: Loss: 0.1850, Total Entropy: 0.1617, Epistemic Entropy: 0.0016,  
 Aleatoric Entropy: 0.1601, Distance: 4.6515  
 Step 05: Loss: 0.0583, Total Entropy: 0.0310, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0307, Distance: 5.4613  
 Step 06: Loss: 0.0373, Total Entropy: 0.0060, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0059, Distance: 6.2579  
 Step 07: Loss: 0.0363, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 6.9950  
 Step 08: Loss: 0.0387, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 7.6618  
 Step 09: Loss: 0.0414, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 8.2599  
 Step 10: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7944  
 Step 11: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2710  
 Step 12: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6953  
 Step 13: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0724  
 Step 14: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4069  
 Step 15: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7029  
 Step 16: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9640  
 Step 17: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.1934  
 Step 18: Loss: 0.0570, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3941  
 Step 19: Loss: 0.0578, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5687  
 Step 20: Loss: 0.0586, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7194  
 Step 21: Loss: 0.0592, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.8484  
 Step 22: Loss: 0.0598, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9575  
 Step 23: Loss: 0.0602, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0484  
 Step 24: Loss: 0.0606, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1227  
 Step 25: Loss: 0.0609, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1818  
 Step 26: Loss: 0.0611, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2269  
 Step 27: Loss: 0.0613, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2593  
 Step 28: Loss: 0.0614, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2800  
 Step 29: Loss: 0.0614, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2899  
 Step 30: Loss: 0.0615, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2901  
 Step 31: Loss: 0.0614, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2812  
 Step 32: Loss: 0.0613, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2641  
 Step 33: Loss: 0.0612, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2395  
 Step 34: Loss: 0.0610, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.2079  
 Step 35: Loss: 0.0608, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1699  
 Step 36: Loss: 0.0606, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.1262  
 Step 37: Loss: 0.0604, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0771  
 Step 38: Loss: 0.0601, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 12.0231  
 Step 39: Loss: 0.0598, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9647  
 Step 40: Loss: 0.0595, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.9021  
 Step 41: Loss: 0.0592, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.8357  
 Step 42: Loss: 0.0588, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.7658  
 Step 43: Loss: 0.0585, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6928  
 Step 44: Loss: 0.0581, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6168  
 Step 45: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5381  
 Step 46: Loss: 0.0573, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4569  
 Step 47: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3735  
 Step 48: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2879  
 Step 49: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2004  
 Step 50: Loss: 0.0556, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1111  
 Step 51: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0202  
 Step 52: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9277  
 Step 53: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8339  
 Step 54: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7388  
 Step 55: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6426  
 Step 56: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5453  
 Step 57: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4470  
 Step 58: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3478  
 Step 59: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2478  
 Step 60: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1470  
 Step 61: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0455  
 Step 62: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9435  
 Step 63: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8408  
 Step 64: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7376  
 Step 65: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.6340  
 Step 66: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5299  
 Step 67: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4254  
 Step 68: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3206  
 Step 69: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2154  
 Step 70: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1100  
 Step 71: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0044  
 Step 72: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8985  
 Step 73: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7924  
 Step 74: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6862  
 Step 75: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5798  
 Step 76: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4733  
 Step 77: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3668  
 Step 78: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2601  
 Step 79: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1534  
 Step 80: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0467  
 Step 81: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9400  
 Step 82: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8333  
 Step 83: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7266  
 Step 84: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6199  
 Step 85: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5133  
 Step 86: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4068  
 Step 87: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3003  
 Step 88: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1940  
 Step 89: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.0878  
 Step 90: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9818  
 Step 91: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8759  
 Step 92: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7703  
 Step 93: Loss: 0.0334, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6648  
 Step 94: Loss: 0.0329, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5596  
 Step 95: Loss: 0.0324, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4547  
 Step 96: Loss: 0.0318, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3501  
 Step 97: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2458  
 Step 98: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1420  
 Step 99: Loss: 0.0304, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0386  
 Step 100: Loss: 0.0299, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9357  
 Step 101: Loss: 0.0294, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.8334  
 Step 102: Loss: 0.0289, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.7318  
 Step 103: Loss: 0.0285, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.6310  
 Step 104: Loss: 0.0280, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.5310  
 Step 105: Loss: 0.0276, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.4321  
 Step 106: Loss: 0.0272, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.3344  
 Step 107: Loss: 0.0268, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.2380  
 Step 108: Loss: 0.0264, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.1431  
 Step 109: Loss: 0.0261, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 5.0501  
 Step 110: Loss: 0.0258, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.9591  
 Step 111: Loss: 0.0255, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.8704  
 Step 112: Loss: 0.0253, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.7844  
 Step 113: Loss: 0.0250, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0015, Distance: 4.7015  
 Step 114: Loss: 0.0249, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.6220  
 Step 115: Loss: 0.0247, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.5464  
 Step 116: Loss: 0.0246, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.4751  
 Step 117: Loss: 0.0245, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.4086  
 Step 118: Loss: 0.0245, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.3474  
 Step 119: Loss: 0.0245, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.2918  
 Step 120: Loss: 0.0245, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.2423  
 Step 121: Loss: 0.0245, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 4.1991  
 Step 122: Loss: 0.0245, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1626  
 Step 123: Loss: 0.0245, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.1328  
 Step 124: Loss: 0.0245, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 4.1098  
 Step 125: Loss: 0.0245, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.0934  
 Step 126: Loss: 0.0245, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.0832  
 Step 127: Loss: 0.0245, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.0791  
 Step 128: Loss: 0.0244, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 4.0802  
 Step 129: Loss: 0.0244, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 4.0862  
 Step 130: Loss: 0.0243, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 4.0961  
 Step 131: Loss: 0.0243, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 4.1094  
 Step 132: Loss: 0.0242, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 4.1252  
 Step 133: Loss: 0.0242, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.1427  
 Step 134: Loss: 0.0241, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.1613  
 Step 135: Loss: 0.0241, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.1803  
 Step 136: Loss: 0.0241, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.1991  
 Step 137: Loss: 0.0241, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0030, Distance: 4.2172  
 Step 138: Loss: 0.0241, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2342  
 Step 139: Loss: 0.0241, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2497  
 Step 140: Loss: 0.0241, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.2635  
 Step 141: Loss: 0.0241, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.2753  
 Step 142: Loss: 0.0241, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.2850  
 Step 143: Loss: 0.0240, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.2927  
 Step 144: Loss: 0.0240, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2983  
 Step 145: Loss: 0.0240, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.3018  
 Step 146: Loss: 0.0240, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.3033  
 Step 147: Loss: 0.0240, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.3030  
 Step 148: Loss: 0.0240, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.3011  
 Step 149: Loss: 0.0240, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2976  
 Step 150: Loss: 0.0240, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2928  
 Step 151: Loss: 0.0240, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.2869  
 Step 152: Loss: 0.0240, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.2801  
 Step 153: Loss: 0.0240, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.2726  
 Step 154: Loss: 0.0240, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.2647  
 Step 155: Loss: 0.0240, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.2564  
 Step 156: Loss: 0.0240, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.2481  
 Step 157: Loss: 0.0240, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2399  
 Step 158: Loss: 0.0240, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2319  
 Step 159: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2243  
 Step 160: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2172  
 Step 161: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0029, Distance: 4.2108  
 Step 162: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2051  
 Step 163: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2001  
 Step 164: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1959  
 Step 165: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1925  
 Step 166: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1900  
 Step 167: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1882  
 Step 168: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1872  
 Step 169: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1869  
 Step 170: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1873  
 Step 171: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1881  
 Step 172: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1895  
 Step 173: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1913  
 Step 174: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1934  
 Step 175: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.1956  
 Step 176: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.1981  
 Step 177: Loss: 0.0240, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2006  
 Step 178: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2031  
 Step 179: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2055  
 Step 180: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2078  
 Step 181: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2099  
 Step 182: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2117  
 Step 183: Loss: 0.0240, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2134  
 Step 184: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2147  
 Step 185: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0028, Distance: 4.2158  
 Step 186: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2167  
 Step 187: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2172  
 Step 188: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2175  
 Step 189: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2175  
 Step 190: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2173  
 Step 191: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2169  
 Step 192: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2163  
 Step 193: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.2155  
 Step 194: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2147  
 Step 195: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2138  
 Step 196: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2128  
 Step 197: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2118  
 Step 198: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2108  
 Step 199: Loss: 0.0239, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.2098  
 Step 00: Loss: 1.0425, Total Entropy: 1.0425, Epistemic Entropy: 0.0397,  
 Aleatoric Entropy: 1.0028, Distance: 0.0000  
 Step 01: Loss: 0.3811, Total Entropy: 0.3731, Epistemic Entropy: 0.0144,  
 Aleatoric Entropy: 0.3587, Distance: 1.6000  
 Step 02: Loss: 0.0723, Total Entropy: 0.0580, Epistemic Entropy: 0.0018,  
 Aleatoric Entropy: 0.0562, Distance: 2.8666  
 Step 03: Loss: 0.0294, Total Entropy: 0.0094, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0092, Distance: 3.9945  
 Step 04: Loss: 0.0267, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.9431  
 Step 05: Loss: 0.0293, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.7451  
 Step 06: Loss: 0.0323, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.4307  
 Step 07: Loss: 0.0352, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0221  
 Step 08: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5355  
 Step 09: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.9833  
 Step 10: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3749  
 Step 11: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7177  
 Step 12: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0180  
 Step 13: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2807  
 Step 14: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5100  
 Step 15: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7097  
 Step 16: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8826  
 Step 17: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0317  
 Step 18: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1591  
 Step 19: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2669  
 Step 20: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3571  
 Step 21: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4312  
 Step 22: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4907  
 Step 23: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5368  
 Step 24: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5708  
 Step 25: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5938  
 Step 26: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6066  
 Step 27: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6102  
 Step 28: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6054  
 Step 29: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5929  
 Step 30: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5733  
 Step 31: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5472  
 Step 32: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5152  
 Step 33: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.4778  
Step 34: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.4355  
Step 35: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.3886  
Step 36: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.3375  
Step 37: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2826  
Step 38: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2243  
Step 39: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1627  
Step 40: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.0983  
Step 41: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.0311  
Step 42: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9614  
Step 43: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8895  
Step 44: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8155  
Step 45: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7397  
Step 46: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6620  
Step 47: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5828  
Step 48: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5020  
Step 49: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4199  
Step 50: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3366  
Step 51: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2521  
Step 52: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1666  
Step 53: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0801  
Step 54: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.9928  
Step 55: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.9046  
Step 56: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.8157  
Step 57: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.7262  
 Step 58: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6360  
 Step 59: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5453  
 Step 60: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4541  
 Step 61: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3624  
 Step 62: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2703  
 Step 63: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1779  
 Step 64: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0851  
 Step 65: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9920  
 Step 66: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8987  
 Step 67: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8051  
 Step 68: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7113  
 Step 69: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6173  
 Step 70: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5232  
 Step 71: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4290  
 Step 72: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3346  
 Step 73: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2401  
 Step 74: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1456  
 Step 75: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0511  
 Step 76: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9565  
 Step 77: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8619  
 Step 78: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7674  
 Step 79: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6729  
 Step 80: Loss: 0.0329, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5784  
 Step 81: Loss: 0.0325, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.4841  
 Step 82: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3898  
 Step 83: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2958  
 Step 84: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2018  
 Step 85: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1081  
 Step 86: Loss: 0.0302, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0147  
 Step 87: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9215  
 Step 88: Loss: 0.0293, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.8287  
 Step 89: Loss: 0.0289, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7362  
 Step 90: Loss: 0.0284, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6442  
 Step 91: Loss: 0.0280, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.5527  
 Step 92: Loss: 0.0276, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4618  
 Step 93: Loss: 0.0272, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3715  
 Step 94: Loss: 0.0268, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2819  
 Step 95: Loss: 0.0264, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1932  
 Step 96: Loss: 0.0261, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1055  
 Step 97: Loss: 0.0257, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.0190  
 Step 98: Loss: 0.0254, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.9337  
 Step 99: Loss: 0.0251, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.8498  
 Step 100: Loss: 0.0248, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.7676  
 Step 101: Loss: 0.0245, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.6873  
 Step 102: Loss: 0.0243, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.6091  
 Step 103: Loss: 0.0241, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.5333  
 Step 104: Loss: 0.0239, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.4602  
 Step 105: Loss: 0.0237, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0018, Distance: 4.3900  
 Step 106: Loss: 0.0236, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.3232  
 Step 107: Loss: 0.0235, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.2601  
 Step 108: Loss: 0.0235, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.2010  
 Step 109: Loss: 0.0234, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.1463  
 Step 110: Loss: 0.0234, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.0963  
 Step 111: Loss: 0.0234, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0513  
 Step 112: Loss: 0.0234, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 4.0115  
 Step 113: Loss: 0.0234, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.9772  
 Step 114: Loss: 0.0234, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.9485  
 Step 115: Loss: 0.0234, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.9254  
 Step 116: Loss: 0.0234, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.9078  
 Step 117: Loss: 0.0234, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.8955  
 Step 118: Loss: 0.0234, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.8884  
 Step 119: Loss: 0.0234, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.8861  
 Step 120: Loss: 0.0234, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.8881  
 Step 121: Loss: 0.0234, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.8939  
 Step 122: Loss: 0.0233, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.9030  
 Step 123: Loss: 0.0233, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.9147  
 Step 124: Loss: 0.0233, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.9286  
 Step 125: Loss: 0.0232, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.9440  
 Step 126: Loss: 0.0232, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.9604  
 Step 127: Loss: 0.0232, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.9772  
 Step 128: Loss: 0.0232, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.9940  
 Step 129: Loss: 0.0232, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0031, Distance: 4.0104  
Step 130: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0030, Distance: 4.0260  
Step 131: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 4.0405  
Step 132: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0538  
Step 133: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0656  
Step 134: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0758  
Step 135: Loss: 0.0232, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0844  
Step 136: Loss: 0.0232, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0912  
Step 137: Loss: 0.0232, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.0965  
Step 138: Loss: 0.0232, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1001  
Step 139: Loss: 0.0232, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1021  
Step 140: Loss: 0.0232, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1028  
Step 141: Loss: 0.0232, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1021  
Step 142: Loss: 0.0232, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.1003  
Step 143: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.0974  
Step 144: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 4.0937  
Step 145: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0892  
Step 146: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0842  
Step 147: Loss: 0.0231, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0787  
Step 148: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0730  
Step 149: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 4.0671  
Step 150: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0613  
Step 151: Loss: 0.0231, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0556  
Step 152: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 4.0501  
Step 153: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0029, Distance: 4.0414  
 Step 178: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0426  
 Step 179: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0435  
 Step 180: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0442  
 Step 181: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0448  
 Step 182: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0452  
 Step 183: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0453  
 Step 184: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0454  
 Step 185: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0453  
 Step 186: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0450  
 Step 187: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0446  
 Step 188: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0442  
 Step 189: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0437  
 Step 190: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0431  
 Step 191: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0425  
 Step 192: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0418  
 Step 193: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0412  
 Step 194: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0406  
 Step 195: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0400  
 Step 196: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0395  
 Step 197: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0390  
 Step 198: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0385  
 Step 199: Loss: 0.0231, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0382  
 Step 00: Loss: 1.0275, Total Entropy: 1.0275, Epistemic Entropy: 0.0241,  
 Aleatoric Entropy: 1.0034, Distance: 0.0000  
 Step 01: Loss: 0.3771, Total Entropy: 0.3691, Epistemic Entropy: 0.0038,

Aleatoric Entropy: 0.3653, Distance: 1.6000  
 Step 02: Loss: 0.0701, Total Entropy: 0.0556, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0552, Distance: 2.8958  
 Step 03: Loss: 0.0288, Total Entropy: 0.0086, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0085, Distance: 4.0566  
 Step 04: Loss: 0.0269, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 5.0305  
 Step 05: Loss: 0.0297, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.8509  
 Step 06: Loss: 0.0329, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5493  
 Step 07: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1492  
 Step 08: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6676  
 Step 09: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1173  
 Step 10: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5083  
 Step 11: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8485  
 Step 12: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1442  
 Step 13: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4007  
 Step 14: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6226  
 Step 15: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8136  
 Step 16: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9770  
 Step 17: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1155  
 Step 18: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2316  
 Step 19: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3276  
 Step 20: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4054  
 Step 21: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4665  
 Step 22: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5127  
 Step 23: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5452  
 Step 24: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5653  
 Step 25: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.5740  
 Step 26: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5725  
 Step 27: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5616  
 Step 28: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5422  
 Step 29: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5150  
 Step 30: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4806  
 Step 31: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4398  
 Step 32: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3930  
 Step 33: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3409  
 Step 34: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2838  
 Step 35: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2222  
 Step 36: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1564  
 Step 37: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0870  
 Step 38: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0141  
 Step 39: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9380  
 Step 40: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8591  
 Step 41: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7777  
 Step 42: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6938  
 Step 43: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6078  
 Step 44: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5198  
 Step 45: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4301  
 Step 46: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3387  
 Step 47: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2459  
 Step 48: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1518  
 Step 49: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.0564  
 Step 50: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9600  
 Step 51: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8626  
 Step 52: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7644  
 Step 53: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6654  
 Step 54: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5656  
 Step 55: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4653  
 Step 56: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3644  
 Step 57: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2631  
 Step 58: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1614  
 Step 59: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0593  
 Step 60: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9569  
 Step 61: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8543  
 Step 62: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7515  
 Step 63: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6486  
 Step 64: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5456  
 Step 65: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4425  
 Step 66: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3394  
 Step 67: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2364  
 Step 68: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1333  
 Step 69: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0304  
 Step 70: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9275  
 Step 71: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8248  
 Step 72: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7223  
 Step 73: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.6199  
 Step 74: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5178  
 Step 75: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4159  
 Step 76: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3142  
 Step 77: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2129  
 Step 78: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1118  
 Step 79: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0112  
 Step 80: Loss: 0.0296, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9109  
 Step 81: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8111  
 Step 82: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7117  
 Step 83: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6129  
 Step 84: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5147  
 Step 85: Loss: 0.0273, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4171  
 Step 86: Loss: 0.0269, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3203  
 Step 87: Loss: 0.0264, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2244  
 Step 88: Loss: 0.0260, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1294  
 Step 89: Loss: 0.0256, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0355  
 Step 90: Loss: 0.0252, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9429  
 Step 91: Loss: 0.0249, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8516  
 Step 92: Loss: 0.0245, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7620  
 Step 93: Loss: 0.0242, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.6743  
 Step 94: Loss: 0.0239, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.5886  
 Step 95: Loss: 0.0237, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.5054  
 Step 96: Loss: 0.0234, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.4249  
 Step 97: Loss: 0.0232, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0015, Distance: 4.3476  
 Step 98: Loss: 0.0231, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.2738  
 Step 99: Loss: 0.0230, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.2039  
 Step 100: Loss: 0.0229, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.1384  
 Step 101: Loss: 0.0228, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0778  
 Step 102: Loss: 0.0228, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.0225  
 Step 103: Loss: 0.0228, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9729  
 Step 104: Loss: 0.0228, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.9295  
 Step 105: Loss: 0.0228, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.8924  
 Step 106: Loss: 0.0229, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8618  
 Step 107: Loss: 0.0229, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.8380  
 Step 108: Loss: 0.0229, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.8207  
 Step 109: Loss: 0.0229, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.8098  
 Step 110: Loss: 0.0228, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.8049  
 Step 111: Loss: 0.0228, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.8055  
 Step 112: Loss: 0.0228, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.8111  
 Step 113: Loss: 0.0227, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.8208  
 Step 114: Loss: 0.0227, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8341  
 Step 115: Loss: 0.0226, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.8500  
 Step 116: Loss: 0.0226, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.8678  
 Step 117: Loss: 0.0226, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.8868  
 Step 118: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9063  
 Step 119: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9256  
 Step 120: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9443  
 Step 121: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0027, Distance: 3.9618  
 Step 122: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9779  
 Step 123: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9921  
 Step 124: Loss: 0.0225, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.0044  
 Step 125: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0146  
 Step 126: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0227  
 Step 127: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0287  
 Step 128: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0325  
 Step 129: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0344  
 Step 130: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0345  
 Step 131: Loss: 0.0225, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0328  
 Step 132: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.0297  
 Step 133: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0253  
 Step 134: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0199  
 Step 135: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0136  
 Step 136: Loss: 0.0225, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0067  
 Step 137: Loss: 0.0225, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9993  
 Step 138: Loss: 0.0225, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9917  
 Step 139: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9842  
 Step 140: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9767  
 Step 141: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9696  
 Step 142: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9629  
 Step 143: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9568  
 Step 144: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9514  
 Step 145: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,

[illegible]

[illegible]

Aleatoric Entropy: 0.0027, Distance: 3.9556  
 Step 194: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9559  
 Step 195: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9562  
 Step 196: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9565  
 Step 197: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9569  
 Step 198: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9572  
 Step 199: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9576  
 Step 00: Loss: 0.9819, Total Entropy: 0.9819, Epistemic Entropy: 0.0089,  
 Aleatoric Entropy: 0.9730, Distance: 0.0000  
 Step 01: Loss: 0.2612, Total Entropy: 0.2532, Epistemic Entropy: 0.0014,  
 Aleatoric Entropy: 0.2518, Distance: 1.6000  
 Step 02: Loss: 0.0498, Total Entropy: 0.0351, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0349, Distance: 2.9416  
 Step 03: Loss: 0.0266, Total Entropy: 0.0063, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0062, Distance: 4.0709  
 Step 04: Loss: 0.0265, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 5.0039  
 Step 05: Loss: 0.0294, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.7862  
 Step 06: Loss: 0.0324, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.4513  
 Step 07: Loss: 0.0352, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0225  
 Step 08: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5165  
 Step 09: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9458  
 Step 10: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3197  
 Step 11: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6458  
 Step 12: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9303  
 Step 13: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1779  
 Step 14: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3931  
 Step 15: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5793  
 Step 16: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7395  
 Step 17: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.8764  
 Step 18: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9922  
 Step 19: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0892  
 Step 20: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1689  
 Step 21: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2331  
 Step 22: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2831  
 Step 23: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3203  
 Step 24: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3457  
 Step 25: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3605  
 Step 26: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3656  
 Step 27: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3618  
 Step 28: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3499  
 Step 29: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3306  
 Step 30: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3045  
 Step 31: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2722  
 Step 32: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2342  
 Step 33: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1911  
 Step 34: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1432  
 Step 35: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0910  
 Step 36: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0348  
 Step 37: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9750  
 Step 38: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9119  
 Step 39: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8458  
 Step 40: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7769  
 Step 41: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.7056  
 Step 42: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6320  
 Step 43: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5563  
 Step 44: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4788  
 Step 45: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3995  
 Step 46: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3187  
 Step 47: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2365  
 Step 48: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1529  
 Step 49: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0683  
 Step 50: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9825  
 Step 51: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8958  
 Step 52: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8083  
 Step 53: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7199  
 Step 54: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6309  
 Step 55: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5412  
 Step 56: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4509  
 Step 57: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3601  
 Step 58: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2689  
 Step 59: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1773  
 Step 60: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0853  
 Step 61: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9930  
 Step 62: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9005  
 Step 63: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8078  
 Step 64: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7148  
 Step 65: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.6218  
 Step 66: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5285  
 Step 67: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4352  
 Step 68: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3418  
 Step 69: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2484  
 Step 70: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1550  
 Step 71: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0616  
 Step 72: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9682  
 Step 73: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8748  
 Step 74: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7816  
 Step 75: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6884  
 Step 76: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5953  
 Step 77: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5024  
 Step 78: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4097  
 Step 79: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3171  
 Step 80: Loss: 0.0312, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2248  
 Step 81: Loss: 0.0307, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1327  
 Step 82: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0409  
 Step 83: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9493  
 Step 84: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8581  
 Step 85: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7672  
 Step 86: Loss: 0.0285, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6768  
 Step 87: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5868  
 Step 88: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4972  
 Step 89: Loss: 0.0273, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 5.4082  
 Step 90: Loss: 0.0269, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3198  
 Step 91: Loss: 0.0265, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2321  
 Step 92: Loss: 0.0261, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1452  
 Step 93: Loss: 0.0257, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0591  
 Step 94: Loss: 0.0254, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9739  
 Step 95: Loss: 0.0250, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8899  
 Step 96: Loss: 0.0247, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8070  
 Step 97: Loss: 0.0244, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7255  
 Step 98: Loss: 0.0241, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.6456  
 Step 99: Loss: 0.0238, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.5674  
 Step 100: Loss: 0.0236, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.4911  
 Step 101: Loss: 0.0234, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.4170  
 Step 102: Loss: 0.0232, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.3453  
 Step 103: Loss: 0.0230, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.2763  
 Step 104: Loss: 0.0229, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.2103  
 Step 105: Loss: 0.0227, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.1476  
 Step 106: Loss: 0.0227, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.0885  
 Step 107: Loss: 0.0226, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.0333  
 Step 108: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9823  
 Step 109: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9358  
 Step 110: Loss: 0.0225, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.8941  
 Step 111: Loss: 0.0225, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.8573  
 Step 112: Loss: 0.0225, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.8255  
 Step 113: Loss: 0.0225, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0035, Distance: 3.7989  
 Step 114: Loss: 0.0225, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.7774  
 Step 115: Loss: 0.0225, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.7610  
 Step 116: Loss: 0.0225, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.7494  
 Step 117: Loss: 0.0225, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.7423  
 Step 118: Loss: 0.0224, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.7395  
 Step 119: Loss: 0.0224, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.7404  
 Step 120: Loss: 0.0224, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.7446  
 Step 121: Loss: 0.0224, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.7517  
 Step 122: Loss: 0.0223, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.7610  
 Step 123: Loss: 0.0223, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.7720  
 Step 124: Loss: 0.0223, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.7844  
 Step 125: Loss: 0.0223, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7975  
 Step 126: Loss: 0.0223, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.8109  
 Step 127: Loss: 0.0223, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.8243  
 Step 128: Loss: 0.0222, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.8373  
 Step 129: Loss: 0.0222, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.8497  
 Step 130: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8611  
 Step 131: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8715  
 Step 132: Loss: 0.0222, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8807  
 Step 133: Loss: 0.0222, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8886  
 Step 134: Loss: 0.0222, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8952  
 Step 135: Loss: 0.0222, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9004  
 Step 136: Loss: 0.0222, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9043  
 Step 137: Loss: 0.0222, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0029, Distance: 3.8634  
 Step 186: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8632  
 Step 187: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8629  
 Step 188: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8626  
 Step 189: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8623  
 Step 190: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8620  
 Step 191: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8617  
 Step 192: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8614  
 Step 193: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8612  
 Step 194: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8609  
 Step 195: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8607  
 Step 196: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8605  
 Step 197: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8604  
 Step 198: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8603  
 Step 199: Loss: 0.0222, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8602  
 Step 00: Loss: 0.9807, Total Entropy: 0.9807, Epistemic Entropy: 0.0369,  
 Aleatoric Entropy: 0.9438, Distance: 0.0000  
 Step 01: Loss: 0.2059, Total Entropy: 0.1979, Epistemic Entropy: 0.0051,  
 Aleatoric Entropy: 0.1928, Distance: 1.6000  
 Step 02: Loss: 0.0470, Total Entropy: 0.0320, Epistemic Entropy: 0.0006,  
 Aleatoric Entropy: 0.0314, Distance: 2.9995  
 Step 03: Loss: 0.0275, Total Entropy: 0.0069, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0068, Distance: 4.1246  
 Step 04: Loss: 0.0271, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 5.0426  
 Step 05: Loss: 0.0297, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.8075  
 Step 06: Loss: 0.0325, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.4547  
 Step 07: Loss: 0.0352, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0079  
 Step 08: Loss: 0.0375, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.4842  
 Step 09: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.8961  
 Step 10: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2531  
 Step 11: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5629  
 Step 12: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8316  
 Step 13: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0642  
 Step 14: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2650  
 Step 15: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4375  
 Step 16: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5849  
 Step 17: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7099  
 Step 18: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8147  
 Step 19: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9014  
 Step 20: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9718  
 Step 21: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0276  
 Step 22: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0701  
 Step 23: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1006  
 Step 24: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1202  
 Step 25: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1300  
 Step 26: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1309  
 Step 27: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1237  
 Step 28: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1092  
 Step 29: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0879  
 Step 30: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0606  
 Step 31: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0278  
 Step 32: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9899  
 Step 33: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.9474  
 Step 34: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9007  
 Step 35: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8502  
 Step 36: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7963  
 Step 37: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7391  
 Step 38: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6791  
 Step 39: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6165  
 Step 40: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5515  
 Step 41: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4843  
 Step 42: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4151  
 Step 43: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3442  
 Step 44: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2717  
 Step 45: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1977  
 Step 46: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1224  
 Step 47: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0459  
 Step 48: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9684  
 Step 49: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8900  
 Step 50: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8107  
 Step 51: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7307  
 Step 52: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6501  
 Step 53: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5690  
 Step 54: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4874  
 Step 55: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4054  
 Step 56: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3230  
 Step 57: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.2404  
 Step 58: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1575  
 Step 59: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0745  
 Step 60: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9913  
 Step 61: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9080  
 Step 62: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8246  
 Step 63: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7411  
 Step 64: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6577  
 Step 65: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5742  
 Step 66: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4908  
 Step 67: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4073  
 Step 68: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3240  
 Step 69: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2407  
 Step 70: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1575  
 Step 71: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0744  
 Step 72: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9914  
 Step 73: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9085  
 Step 74: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8258  
 Step 75: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7432  
 Step 76: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6607  
 Step 77: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5784  
 Step 78: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4964  
 Step 79: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4145  
 Step 80: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3328  
 Step 81: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.2513  
 Step 82: Loss: 0.0309, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1700  
 Step 83: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0890  
 Step 84: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0083  
 Step 85: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9278  
 Step 86: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8477  
 Step 87: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7678  
 Step 88: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6884  
 Step 89: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6093  
 Step 90: Loss: 0.0278, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5306  
 Step 91: Loss: 0.0275, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4523  
 Step 92: Loss: 0.0271, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3746  
 Step 93: Loss: 0.0267, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2973  
 Step 94: Loss: 0.0264, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2207  
 Step 95: Loss: 0.0260, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1447  
 Step 96: Loss: 0.0257, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0693  
 Step 97: Loss: 0.0254, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.9947  
 Step 98: Loss: 0.0251, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9209  
 Step 99: Loss: 0.0248, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.8480  
 Step 100: Loss: 0.0245, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7760  
 Step 101: Loss: 0.0242, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7052  
 Step 102: Loss: 0.0239, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.6355  
 Step 103: Loss: 0.0237, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.5670  
 Step 104: Loss: 0.0234, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.5000  
 Step 105: Loss: 0.0232, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0010, Distance: 4.4345  
 Step 106: Loss: 0.0230, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.3707  
 Step 107: Loss: 0.0228, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.3087  
 Step 108: Loss: 0.0227, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.2487  
 Step 109: Loss: 0.0225, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.1908  
 Step 110: Loss: 0.0224, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.1352  
 Step 111: Loss: 0.0223, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.0821  
 Step 112: Loss: 0.0222, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.0317  
 Step 113: Loss: 0.0221, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.9841  
 Step 114: Loss: 0.0221, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.9395  
 Step 115: Loss: 0.0220, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8981  
 Step 116: Loss: 0.0220, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8600  
 Step 117: Loss: 0.0220, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8253  
 Step 118: Loss: 0.0220, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7941  
 Step 119: Loss: 0.0220, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7665  
 Step 120: Loss: 0.0220, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.7426  
 Step 121: Loss: 0.0220, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7222  
 Step 122: Loss: 0.0219, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.7053  
 Step 123: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.6920  
 Step 124: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.6819  
 Step 125: Loss: 0.0219, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.6750  
 Step 126: Loss: 0.0219, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.6710  
 Step 127: Loss: 0.0219, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.6696  
 Step 128: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.6707  
 Step 129: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0035, Distance: 3.6739  
 Step 130: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.6789  
 Step 131: Loss: 0.0218, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6853  
 Step 132: Loss: 0.0218, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6930  
 Step 133: Loss: 0.0218, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7015  
 Step 134: Loss: 0.0218, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.7107  
 Step 135: Loss: 0.0218, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7202  
 Step 136: Loss: 0.0218, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7297  
 Step 137: Loss: 0.0218, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7392  
 Step 138: Loss: 0.0218, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7484  
 Step 139: Loss: 0.0218, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7571  
 Step 140: Loss: 0.0218, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7652  
 Step 141: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7727  
 Step 142: Loss: 0.0217, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7793  
 Step 143: Loss: 0.0217, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7852  
 Step 144: Loss: 0.0217, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7902  
 Step 145: Loss: 0.0217, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7943  
 Step 146: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7976  
 Step 147: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8000  
 Step 148: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8017  
 Step 149: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8026  
 Step 150: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8028  
 Step 151: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8024  
 Step 152: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8013  
 Step 153: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0029, Distance: 3.7558  
 Step 178: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7561  
 Step 179: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7566  
 Step 180: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7571  
 Step 181: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7577  
 Step 182: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7584  
 Step 183: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7591  
 Step 184: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7598  
 Step 185: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7605  
 Step 186: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7612  
 Step 187: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7618  
 Step 188: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7624  
 Step 189: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7630  
 Step 190: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7635  
 Step 191: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7640  
 Step 192: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7643  
 Step 193: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7646  
 Step 194: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7649  
 Step 195: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7651  
 Step 196: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7652  
 Step 197: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7653  
 Step 198: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7653  
 Step 199: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7652  
 Step 00: Loss: 0.9267, Total Entropy: 0.9267, Epistemic Entropy: 0.0092,  
 Aleatoric Entropy: 0.9175, Distance: 0.0000  
 Step 01: Loss: 0.3104, Total Entropy: 0.3024, Epistemic Entropy: 0.0027,

Aleatoric Entropy: 0.2997, Distance: 1.6000  
 Step 02: Loss: 0.0640, Total Entropy: 0.0494, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0490, Distance: 2.9224  
 Step 03: Loss: 0.0296, Total Entropy: 0.0092, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0092, Distance: 4.0775  
 Step 04: Loss: 0.0275, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 5.0426  
 Step 05: Loss: 0.0300, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.8549  
 Step 06: Loss: 0.0330, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.5462  
 Step 07: Loss: 0.0358, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.1399  
 Step 08: Loss: 0.0383, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.6528  
 Step 09: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0975  
 Step 10: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4838  
 Step 11: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8195  
 Step 12: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1110  
 Step 13: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3634  
 Step 14: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5814  
 Step 15: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7686  
 Step 16: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9284  
 Step 17: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0635  
 Step 18: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1765  
 Step 19: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2695  
 Step 20: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3445  
 Step 21: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4032  
 Step 22: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4470  
 Step 23: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4774  
 Step 24: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4955  
 Step 25: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 10.5025  
 Step 26: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4993  
 Step 27: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4869  
 Step 28: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4661  
 Step 29: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4377  
 Step 30: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4023  
 Step 31: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3605  
 Step 32: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3129  
 Step 33: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2601  
 Step 34: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2024  
 Step 35: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1402  
 Step 36: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0741  
 Step 37: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0042  
 Step 38: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9310  
 Step 39: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8546  
 Step 40: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7755  
 Step 41: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6938  
 Step 42: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6097  
 Step 43: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5236  
 Step 44: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4355  
 Step 45: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3456  
 Step 46: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2542  
 Step 47: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1613  
 Step 48: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0671  
 Step 49: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.9718  
 Step 50: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8754  
 Step 51: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7781  
 Step 52: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6800  
 Step 53: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5812  
 Step 54: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4818  
 Step 55: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3818  
 Step 56: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2813  
 Step 57: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1805  
 Step 58: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0794  
 Step 59: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9780  
 Step 60: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8764  
 Step 61: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7746  
 Step 62: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6728  
 Step 63: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5709  
 Step 64: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4690  
 Step 65: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3672  
 Step 66: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2654  
 Step 67: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1638  
 Step 68: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0623  
 Step 69: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9609  
 Step 70: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8598  
 Step 71: Loss: 0.0338, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7590  
 Step 72: Loss: 0.0334, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6584  
 Step 73: Loss: 0.0329, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.5582  
Step 74: Loss: 0.0324, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.4583  
Step 75: Loss: 0.0319, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.3587  
Step 76: Loss: 0.0314, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.2596  
Step 77: Loss: 0.0309, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.1609  
Step 78: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.0628  
Step 79: Loss: 0.0300, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 5.9651  
Step 80: Loss: 0.0295, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 5.8680  
Step 81: Loss: 0.0291, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 5.7716  
Step 82: Loss: 0.0286, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 5.6759  
Step 83: Loss: 0.0282, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 5.5809  
Step 84: Loss: 0.0278, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 5.4867  
Step 85: Loss: 0.0274, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 5.3935  
Step 86: Loss: 0.0269, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 5.3013  
Step 87: Loss: 0.0266, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0005, Distance: 5.2102  
Step 88: Loss: 0.0262, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0006, Distance: 5.1204  
Step 89: Loss: 0.0258, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0007, Distance: 5.0320  
Step 90: Loss: 0.0255, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0008, Distance: 4.9451  
Step 91: Loss: 0.0252, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0009, Distance: 4.8599  
Step 92: Loss: 0.0249, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0010, Distance: 4.7766  
Step 93: Loss: 0.0246, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0011, Distance: 4.6954  
Step 94: Loss: 0.0244, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0013, Distance: 4.6166  
Step 95: Loss: 0.0242, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0015, Distance: 4.5404  
Step 96: Loss: 0.0240, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0016, Distance: 4.4671  
Step 97: Loss: 0.0238, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0018, Distance: 4.3970  
 Step 98: Loss: 0.0237, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.3303  
 Step 99: Loss: 0.0236, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.2674  
 Step 100: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.2086  
 Step 101: Loss: 0.0235, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.1543  
 Step 102: Loss: 0.0235, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.1046  
 Step 103: Loss: 0.0235, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.0599  
 Step 104: Loss: 0.0235, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 4.0204  
 Step 105: Loss: 0.0235, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.9862  
 Step 106: Loss: 0.0235, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9575  
 Step 107: Loss: 0.0235, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.9342  
 Step 108: Loss: 0.0235, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.9162  
 Step 109: Loss: 0.0235, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.9034  
 Step 110: Loss: 0.0235, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.8956  
 Step 111: Loss: 0.0235, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.8923  
 Step 112: Loss: 0.0234, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.8933  
 Step 113: Loss: 0.0234, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.8978  
 Step 114: Loss: 0.0234, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.9056  
 Step 115: Loss: 0.0233, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.9159  
 Step 116: Loss: 0.0233, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.9283  
 Step 117: Loss: 0.0233, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.9422  
 Step 118: Loss: 0.0233, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.9570  
 Step 119: Loss: 0.0233, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.9723  
 Step 120: Loss: 0.0232, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9876  
 Step 121: Loss: 0.0232, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0032, Distance: 4.0026  
 Step 122: Loss: 0.0232, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 4.0169  
 Step 123: Loss: 0.0232, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0302  
 Step 124: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0424  
 Step 125: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0531  
 Step 126: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0625  
 Step 127: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0703  
 Step 128: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0765  
 Step 129: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0813  
 Step 130: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0845  
 Step 131: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0863  
 Step 132: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0868  
 Step 133: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0861  
 Step 134: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0844  
 Step 135: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0817  
 Step 136: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0782  
 Step 137: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0741  
 Step 138: Loss: 0.0232, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0694  
 Step 139: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 4.0644  
 Step 140: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0592  
 Step 141: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0539  
 Step 142: Loss: 0.0232, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0486  
 Step 143: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0434  
 Step 144: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0385  
 Step 145: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,

[illegible]



Aleatoric Entropy: 0.0030, Distance: 4.0277  
 Step 194: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0276  
 Step 195: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0276  
 Step 196: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0276  
 Step 197: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0277  
 Step 198: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0278  
 Step 199: Loss: 0.0232, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 4.0279  
 Step 00: Loss: 0.9246, Total Entropy: 0.9246, Epistemic Entropy: 0.0329,  
 Aleatoric Entropy: 0.8918, Distance: 0.0000  
 Step 01: Loss: 0.2087, Total Entropy: 0.2007, Epistemic Entropy: 0.0042,  
 Aleatoric Entropy: 0.1964, Distance: 1.6000  
 Step 02: Loss: 0.0408, Total Entropy: 0.0254, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0250, Distance: 3.0848  
 Step 03: Loss: 0.0256, Total Entropy: 0.0042, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0042, Distance: 4.2819  
 Step 04: Loss: 0.0272, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.2531  
 Step 05: Loss: 0.0305, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.0573  
 Step 06: Loss: 0.0338, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7339  
 Step 07: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3089  
 Step 08: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8010  
 Step 09: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2237  
 Step 10: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5877  
 Step 11: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9010  
 Step 12: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1702  
 Step 13: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4009  
 Step 14: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5976  
 Step 15: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7642  
 Step 16: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9038  
 Step 17: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 10.0195  
 Step 18: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1136  
 Step 19: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1883  
 Step 20: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2457  
 Step 21: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2872  
 Step 22: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3146  
 Step 23: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3292  
 Step 24: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3321  
 Step 25: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3246  
 Step 26: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3076  
 Step 27: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2820  
 Step 28: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2487  
 Step 29: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2084  
 Step 30: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1618  
 Step 31: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1095  
 Step 32: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0520  
 Step 33: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9900  
 Step 34: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9238  
 Step 35: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8539  
 Step 36: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7806  
 Step 37: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7042  
 Step 38: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6252  
 Step 39: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5438  
 Step 40: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4602  
 Step 41: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3747  
 Step 42: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2875  
 Step 43: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1988  
 Step 44: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1088  
 Step 45: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0176  
 Step 46: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9254  
 Step 47: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8323  
 Step 48: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7384  
 Step 49: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6438  
 Step 50: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5487  
 Step 51: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4531  
 Step 52: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3571  
 Step 53: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2607  
 Step 54: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1641  
 Step 55: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0672  
 Step 56: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9702  
 Step 57: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8730  
 Step 58: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7758  
 Step 59: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6785  
 Step 60: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5812  
 Step 61: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4839  
 Step 62: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3867  
 Step 63: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2895  
 Step 64: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1925  
 Step 65: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.0956  
 Step 66: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9988  
 Step 67: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9022  
 Step 68: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8057  
 Step 69: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7095  
 Step 70: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6134  
 Step 71: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5176  
 Step 72: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4219  
 Step 73: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3266  
 Step 74: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2314  
 Step 75: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1366  
 Step 76: Loss: 0.0303, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0420  
 Step 77: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9478  
 Step 78: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8539  
 Step 79: Loss: 0.0289, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7603  
 Step 80: Loss: 0.0284, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6671  
 Step 81: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5744  
 Step 82: Loss: 0.0275, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4820  
 Step 83: Loss: 0.0271, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3902  
 Step 84: Loss: 0.0267, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2989  
 Step 85: Loss: 0.0262, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2081  
 Step 86: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1180  
 Step 87: Loss: 0.0254, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.0286  
 Step 88: Loss: 0.0250, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9400  
 Step 89: Loss: 0.0246, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 4.8523  
 Step 90: Loss: 0.0243, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.7656  
 Step 91: Loss: 0.0239, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.6800  
 Step 92: Loss: 0.0236, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.5957  
 Step 93: Loss: 0.0232, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.5129  
 Step 94: Loss: 0.0230, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.4317  
 Step 95: Loss: 0.0227, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.3523  
 Step 96: Loss: 0.0224, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.2750  
 Step 97: Loss: 0.0222, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.2001  
 Step 98: Loss: 0.0220, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.1279  
 Step 99: Loss: 0.0219, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.0587  
 Step 100: Loss: 0.0217, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.9928  
 Step 101: Loss: 0.0216, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.9305  
 Step 102: Loss: 0.0215, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8724  
 Step 103: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8186  
 Step 104: Loss: 0.0215, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7695  
 Step 105: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7255  
 Step 106: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6868  
 Step 107: Loss: 0.0215, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.6535  
 Step 108: Loss: 0.0215, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6258  
 Step 109: Loss: 0.0215, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6038  
 Step 110: Loss: 0.0215, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5872  
 Step 111: Loss: 0.0214, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5761  
 Step 112: Loss: 0.0214, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5699  
 Step 113: Loss: 0.0214, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0035, Distance: 3.5685  
 Step 114: Loss: 0.0214, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5713  
 Step 115: Loss: 0.0214, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5777  
 Step 116: Loss: 0.0213, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.5871  
 Step 117: Loss: 0.0213, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.5990  
 Step 118: Loss: 0.0213, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.6126  
 Step 119: Loss: 0.0212, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6275  
 Step 120: Loss: 0.0212, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6429  
 Step 121: Loss: 0.0212, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6585  
 Step 122: Loss: 0.0212, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6736  
 Step 123: Loss: 0.0212, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6880  
 Step 124: Loss: 0.0212, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7014  
 Step 125: Loss: 0.0212, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7134  
 Step 126: Loss: 0.0212, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7240  
 Step 127: Loss: 0.0212, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7329  
 Step 128: Loss: 0.0212, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7402  
 Step 129: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7458  
 Step 130: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7497  
 Step 131: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7521  
 Step 132: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7530  
 Step 133: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7526  
 Step 134: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7509  
 Step 135: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7482  
 Step 136: Loss: 0.0212, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7446  
 Step 137: Loss: 0.0212, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0026, Distance: 3.6970  
 Step 186: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6966  
 Step 187: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6962  
 Step 188: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6959  
 Step 189: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6956  
 Step 190: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6955  
 Step 191: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6953  
 Step 192: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6953  
 Step 193: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6953  
 Step 194: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6953  
 Step 195: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6954  
 Step 196: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6955  
 Step 197: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6956  
 Step 198: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6958  
 Step 199: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6960  
 Step 00: Loss: 0.9147, Total Entropy: 0.9147, Epistemic Entropy: 0.0088,  
 Aleatoric Entropy: 0.9058, Distance: 0.0000  
 Step 01: Loss: 0.4027, Total Entropy: 0.3947, Epistemic Entropy: 0.0024,  
 Aleatoric Entropy: 0.3923, Distance: 1.6000  
 Step 02: Loss: 0.0768, Total Entropy: 0.0630, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0627, Distance: 2.7570  
 Step 03: Loss: 0.0287, Total Entropy: 0.0095, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0094, Distance: 3.8427  
 Step 04: Loss: 0.0257, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.7687  
 Step 05: Loss: 0.0282, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.5547  
 Step 06: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2275  
 Step 07: Loss: 0.0341, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8078  
 Step 08: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3112  
 Step 09: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 7.7495  
 Step 10: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1321  
 Step 11: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4662  
 Step 12: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7579  
 Step 13: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0121  
 Step 14: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2330  
 Step 15: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4243  
 Step 16: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5889  
 Step 17: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7296  
 Step 18: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8486  
 Step 19: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9481  
 Step 20: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0300  
 Step 21: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0957  
 Step 22: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1468  
 Step 23: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1846  
 Step 24: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2103  
 Step 25: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2249  
 Step 26: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2294  
 Step 27: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2248  
 Step 28: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2117  
 Step 29: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1910  
 Step 30: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1632  
 Step 31: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1291  
 Step 32: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0891  
 Step 33: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.0438  
 Step 34: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9936  
 Step 35: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9389  
 Step 36: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8803  
 Step 37: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8179  
 Step 38: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7521  
 Step 39: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6833  
 Step 40: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6117  
 Step 41: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5376  
 Step 42: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4611  
 Step 43: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3825  
 Step 44: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3020  
 Step 45: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2198  
 Step 46: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1359  
 Step 47: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0506  
 Step 48: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9640  
 Step 49: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8762  
 Step 50: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7873  
 Step 51: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6974  
 Step 52: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6066  
 Step 53: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5150  
 Step 54: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4226  
 Step 55: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3296  
 Step 56: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2359  
 Step 57: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.1417  
 Step 58: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0469  
 Step 59: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9517  
 Step 60: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8561  
 Step 61: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7601  
 Step 62: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6638  
 Step 63: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5672  
 Step 64: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4703  
 Step 65: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3732  
 Step 66: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2759  
 Step 67: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1785  
 Step 68: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0809  
 Step 69: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9832  
 Step 70: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8854  
 Step 71: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7875  
 Step 72: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6896  
 Step 73: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5916  
 Step 74: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4937  
 Step 75: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3957  
 Step 76: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2979  
 Step 77: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2001  
 Step 78: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1024  
 Step 79: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0048  
 Step 80: Loss: 0.0296, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9074  
 Step 81: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.8102  
 Step 82: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7132  
 Step 83: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6164  
 Step 84: Loss: 0.0277, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5200  
 Step 85: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4240  
 Step 86: Loss: 0.0268, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3283  
 Step 87: Loss: 0.0264, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2332  
 Step 88: Loss: 0.0259, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1386  
 Step 89: Loss: 0.0255, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.0447  
 Step 90: Loss: 0.0251, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9515  
 Step 91: Loss: 0.0247, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.8593  
 Step 92: Loss: 0.0243, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.7681  
 Step 93: Loss: 0.0240, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.6780  
 Step 94: Loss: 0.0236, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.5893  
 Step 95: Loss: 0.0233, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.5023  
 Step 96: Loss: 0.0230, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.4170  
 Step 97: Loss: 0.0227, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.3339  
 Step 98: Loss: 0.0225, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.2532  
 Step 99: Loss: 0.0223, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.1753  
 Step 100: Loss: 0.0221, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.1005  
 Step 101: Loss: 0.0220, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.0292  
 Step 102: Loss: 0.0219, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.9620  
 Step 103: Loss: 0.0218, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.8992  
 Step 104: Loss: 0.0218, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8412  
 Step 105: Loss: 0.0218, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0028, Distance: 3.7886  
 Step 106: Loss: 0.0218, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7417  
 Step 107: Loss: 0.0218, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7009  
 Step 108: Loss: 0.0218, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6664  
 Step 109: Loss: 0.0218, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6384  
 Step 110: Loss: 0.0218, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6169  
 Step 111: Loss: 0.0218, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.6019  
 Step 112: Loss: 0.0218, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.5931  
 Step 113: Loss: 0.0218, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.5901  
 Step 114: Loss: 0.0218, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.5923  
 Step 115: Loss: 0.0217, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.5993  
 Step 116: Loss: 0.0217, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6102  
 Step 117: Loss: 0.0217, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6244  
 Step 118: Loss: 0.0216, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6410  
 Step 119: Loss: 0.0216, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6594  
 Step 120: Loss: 0.0216, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6787  
 Step 121: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6984  
 Step 122: Loss: 0.0215, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7177  
 Step 123: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7364  
 Step 124: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7538  
 Step 125: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7697  
 Step 126: Loss: 0.0215, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7838  
 Step 127: Loss: 0.0215, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7960  
 Step 128: Loss: 0.0215, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8061  
 Step 129: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0024, Distance: 3.8141  
 Step 130: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8200  
 Step 131: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8239  
 Step 132: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8259  
 Step 133: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8261  
 Step 134: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8247  
 Step 135: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8218  
 Step 136: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8177  
 Step 137: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8125  
 Step 138: Loss: 0.0215, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8065  
 Step 139: Loss: 0.0215, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7998  
 Step 140: Loss: 0.0215, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7928  
 Step 141: Loss: 0.0215, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7854  
 Step 142: Loss: 0.0215, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7781  
 Step 143: Loss: 0.0215, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7708  
 Step 144: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7638  
 Step 145: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7572  
 Step 146: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7512  
 Step 147: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7457  
 Step 148: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7409  
 Step 149: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7369  
 Step 150: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7336  
 Step 151: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7310  
 Step 152: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7292  
 Step 153: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0027, Distance: 3.7568  
 Step 178: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7563  
 Step 179: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7556  
 Step 180: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7548  
 Step 181: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7540  
 Step 182: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7532  
 Step 183: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7523  
 Step 184: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7515  
 Step 185: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7508  
 Step 186: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7501  
 Step 187: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7494  
 Step 188: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7489  
 Step 189: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7484  
 Step 190: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7481  
 Step 191: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7478  
 Step 192: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7477  
 Step 193: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7476  
 Step 194: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7476  
 Step 195: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7477  
 Step 196: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7478  
 Step 197: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7480  
 Step 198: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7483  
 Step 199: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7485  
 Step 00: Loss: 0.9124, Total Entropy: 0.9124, Epistemic Entropy: 0.0497,  
 Aleatoric Entropy: 0.8627, Distance: 0.0000  
 Step 01: Loss: 0.2851, Total Entropy: 0.2771, Epistemic Entropy: 0.0141,



Aleatoric Entropy: 0.2630, Distance: 1.6000  
 Step 02: Loss: 0.0552, Total Entropy: 0.0403, Epistemic Entropy: 0.0016,  
 Aleatoric Entropy: 0.0387, Distance: 2.9703  
 Step 03: Loss: 0.0274, Total Entropy: 0.0067, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0064, Distance: 4.1381  
 Step 04: Loss: 0.0270, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 5.1054  
 Step 05: Loss: 0.0300, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.9161  
 Step 06: Loss: 0.0332, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6046  
 Step 07: Loss: 0.0360, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.1948  
 Step 08: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7039  
 Step 09: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1449  
 Step 10: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5275  
 Step 11: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8597  
 Step 12: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1477  
 Step 13: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3970  
 Step 14: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6117  
 Step 15: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7958  
 Step 16: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9523  
 Step 17: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0842  
 Step 18: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1939  
 Step 19: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2835  
 Step 20: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3549  
 Step 21: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4099  
 Step 22: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4500  
 Step 23: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4765  
 Step 24: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4907  
 Step 25: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.4937  
 Step 26: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4865  
 Step 27: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4700  
 Step 28: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4450  
 Step 29: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4124  
 Step 30: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3727  
 Step 31: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3266  
 Step 32: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2746  
 Step 33: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2173  
 Step 34: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1552  
 Step 35: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0886  
 Step 36: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0180  
 Step 37: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9437  
 Step 38: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8661  
 Step 39: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7854  
 Step 40: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7019  
 Step 41: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6159  
 Step 42: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5276  
 Step 43: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4372  
 Step 44: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3449  
 Step 45: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2509  
 Step 46: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1554  
 Step 47: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0584  
 Step 48: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9602  
 Step 49: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8608  
 Step 50: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7604  
 Step 51: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6590  
 Step 52: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5569  
 Step 53: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4540  
 Step 54: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3505  
 Step 55: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2464  
 Step 56: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1419  
 Step 57: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0369  
 Step 58: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9315  
 Step 59: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8259  
 Step 60: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7199  
 Step 61: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6138  
 Step 62: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5075  
 Step 63: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4011  
 Step 64: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2946  
 Step 65: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1881  
 Step 66: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0815  
 Step 67: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9750  
 Step 68: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8685  
 Step 69: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7622  
 Step 70: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6559  
 Step 71: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5498  
 Step 72: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4438  
 Step 73: Loss: 0.0317, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.3381  
 Step 74: Loss: 0.0312, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2326  
 Step 75: Loss: 0.0307, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1274  
 Step 76: Loss: 0.0302, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0225  
 Step 77: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9180  
 Step 78: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8139  
 Step 79: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7103  
 Step 80: Loss: 0.0282, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6073  
 Step 81: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5048  
 Step 82: Loss: 0.0273, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4031  
 Step 83: Loss: 0.0268, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3022  
 Step 84: Loss: 0.0264, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2022  
 Step 85: Loss: 0.0259, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1032  
 Step 86: Loss: 0.0255, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.0054  
 Step 87: Loss: 0.0251, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.9091  
 Step 88: Loss: 0.0248, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.8143  
 Step 89: Loss: 0.0244, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.7213  
 Step 90: Loss: 0.0241, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.6304  
 Step 91: Loss: 0.0238, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.5419  
 Step 92: Loss: 0.0236, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.4561  
 Step 93: Loss: 0.0234, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.3734  
 Step 94: Loss: 0.0232, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.2943  
 Step 95: Loss: 0.0230, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.2191  
 Step 96: Loss: 0.0230, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 4.1484  
 Step 97: Loss: 0.0229, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0024, Distance: 4.0827  
 Step 98: Loss: 0.0229, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.0224  
 Step 99: Loss: 0.0229, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.9680  
 Step 100: Loss: 0.0229, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.9200  
 Step 101: Loss: 0.0229, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.8786  
 Step 102: Loss: 0.0229, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.8443  
 Step 103: Loss: 0.0229, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.8170  
 Step 104: Loss: 0.0230, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.7968  
 Step 105: Loss: 0.0230, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.7836  
 Step 106: Loss: 0.0229, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0040, Distance: 3.7770  
 Step 107: Loss: 0.0229, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.7765  
 Step 108: Loss: 0.0229, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.7815  
 Step 109: Loss: 0.0228, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.7913  
 Step 110: Loss: 0.0228, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.8050  
 Step 111: Loss: 0.0227, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.8219  
 Step 112: Loss: 0.0227, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.8411  
 Step 113: Loss: 0.0227, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.8616  
 Step 114: Loss: 0.0226, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.8828  
 Step 115: Loss: 0.0226, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.9040  
 Step 116: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.9245  
 Step 117: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.9439  
 Step 118: Loss: 0.0226, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9617  
 Step 119: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9776  
 Step 120: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9913  
 Step 121: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0025, Distance: 4.0029  
 Step 122: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.0120  
 Step 123: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0189  
 Step 124: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0235  
 Step 125: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0260  
 Step 126: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0264  
 Step 127: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0250  
 Step 128: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0220  
 Step 129: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0175  
 Step 130: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.0119  
 Step 131: Loss: 0.0226, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.0054  
 Step 132: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9981  
 Step 133: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9904  
 Step 134: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9824  
 Step 135: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9743  
 Step 136: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9664  
 Step 137: Loss: 0.0226, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9588  
 Step 138: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9516  
 Step 139: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.9451  
 Step 140: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.9392  
 Step 141: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.9342  
 Step 142: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.9299  
 Step 143: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.9265  
 Step 144: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.9240  
 Step 145: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,







Aleatoric Entropy: 0.0028, Distance: 3.9451  
 Step 194: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9454  
 Step 195: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9458  
 Step 196: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9461  
 Step 197: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9464  
 Step 198: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9466  
 Step 199: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9468  
 Step 00: Loss: 0.9102, Total Entropy: 0.9102, Epistemic Entropy: 0.0286,  
 Aleatoric Entropy: 0.8816, Distance: 0.0000  
 Step 01: Loss: 0.2613, Total Entropy: 0.2533, Epistemic Entropy: 0.0098,  
 Aleatoric Entropy: 0.2435, Distance: 1.6000  
 Step 02: Loss: 0.0484, Total Entropy: 0.0334, Epistemic Entropy: 0.0011,  
 Aleatoric Entropy: 0.0324, Distance: 2.9882  
 Step 03: Loss: 0.0263, Total Entropy: 0.0055, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0053, Distance: 4.1642  
 Step 04: Loss: 0.0269, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 5.1353  
 Step 05: Loss: 0.0301, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.9482  
 Step 06: Loss: 0.0333, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6382  
 Step 07: Loss: 0.0362, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2295  
 Step 08: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7395  
 Step 09: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1813  
 Step 10: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5646  
 Step 11: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8974  
 Step 12: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1861  
 Step 13: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4358  
 Step 14: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6509  
 Step 15: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8353  
 Step 16: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9920  
 Step 17: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.1239  
 Step 18: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2335  
 Step 19: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3228  
 Step 20: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3937  
 Step 21: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4480  
 Step 22: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4872  
 Step 23: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5126  
 Step 24: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5254  
 Step 25: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5268  
 Step 26: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5178  
 Step 27: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4993  
 Step 28: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4721  
 Step 29: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4370  
 Step 30: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3948  
 Step 31: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3460  
 Step 32: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2912  
 Step 33: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2310  
 Step 34: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1658  
 Step 35: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0962  
 Step 36: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0225  
 Step 37: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9450  
 Step 38: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8642  
 Step 39: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7804  
 Step 40: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6937  
 Step 41: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.6046  
 Step 42: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5132  
 Step 43: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4197  
 Step 44: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3243  
 Step 45: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2272  
 Step 46: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1286  
 Step 47: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0287  
 Step 48: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9274  
 Step 49: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8251  
 Step 50: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7217  
 Step 51: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6175  
 Step 52: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5125  
 Step 53: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4067  
 Step 54: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3004  
 Step 55: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1935  
 Step 56: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0861  
 Step 57: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9784  
 Step 58: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8703  
 Step 59: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7619  
 Step 60: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6533  
 Step 61: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5445  
 Step 62: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4356  
 Step 63: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3266  
 Step 64: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2176  
 Step 65: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.1086  
 Step 66: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9995  
 Step 67: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8906  
 Step 68: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7817  
 Step 69: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6730  
 Step 70: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5645  
 Step 71: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4561  
 Step 72: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3480  
 Step 73: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2402  
 Step 74: Loss: 0.0307, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1327  
 Step 75: Loss: 0.0302, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0255  
 Step 76: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9188  
 Step 77: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8125  
 Step 78: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7067  
 Step 79: Loss: 0.0282, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6015  
 Step 80: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4969  
 Step 81: Loss: 0.0272, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3931  
 Step 82: Loss: 0.0267, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2901  
 Step 83: Loss: 0.0263, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1880  
 Step 84: Loss: 0.0258, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0870  
 Step 85: Loss: 0.0254, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9872  
 Step 86: Loss: 0.0250, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.8888  
 Step 87: Loss: 0.0246, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7920  
 Step 88: Loss: 0.0243, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.6971  
 Step 89: Loss: 0.0239, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0009, Distance: 4.6043  
 Step 90: Loss: 0.0237, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.5140  
 Step 91: Loss: 0.0234, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.4265  
 Step 92: Loss: 0.0232, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.3422  
 Step 93: Loss: 0.0230, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.2616  
 Step 94: Loss: 0.0229, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 4.1852  
 Step 95: Loss: 0.0228, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 4.1134  
 Step 96: Loss: 0.0227, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.0468  
 Step 97: Loss: 0.0227, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9859  
 Step 98: Loss: 0.0227, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.9312  
 Step 99: Loss: 0.0227, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.8832  
 Step 100: Loss: 0.0227, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.8422  
 Step 101: Loss: 0.0227, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.8085  
 Step 102: Loss: 0.0227, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.7821  
 Step 103: Loss: 0.0227, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.7631  
 Step 104: Loss: 0.0227, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.7511  
 Step 105: Loss: 0.0227, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.7458  
 Step 106: Loss: 0.0227, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.7466  
 Step 107: Loss: 0.0226, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.7528  
 Step 108: Loss: 0.0226, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.7635  
 Step 109: Loss: 0.0225, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.7778  
 Step 110: Loss: 0.0225, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.7950  
 Step 111: Loss: 0.0225, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.8140  
 Step 112: Loss: 0.0224, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.8341  
 Step 113: Loss: 0.0224, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0031, Distance: 3.8545  
 Step 114: Loss: 0.0224, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.8745  
 Step 115: Loss: 0.0224, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.8936  
 Step 116: Loss: 0.0224, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.9114  
 Step 117: Loss: 0.0224, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9274  
 Step 118: Loss: 0.0224, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9413  
 Step 119: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9532  
 Step 120: Loss: 0.0224, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9627  
 Step 121: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9700  
 Step 122: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.9751  
 Step 123: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.9780  
 Step 124: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.9789  
 Step 125: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.9779  
 Step 126: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.9754  
 Step 127: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.9714  
 Step 128: Loss: 0.0224, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9663  
 Step 129: Loss: 0.0223, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9602  
 Step 130: Loss: 0.0223, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9534  
 Step 131: Loss: 0.0223, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9461  
 Step 132: Loss: 0.0223, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9386  
 Step 133: Loss: 0.0223, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.9311  
 Step 134: Loss: 0.0223, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9236  
 Step 135: Loss: 0.0223, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9165  
 Step 136: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9099  
 Step 137: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,



[illegible]



Aleatoric Entropy: 0.0027, Distance: 3.9023  
 Step 186: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9025  
 Step 187: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9027  
 Step 188: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9029  
 Step 189: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9032  
 Step 190: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9034  
 Step 191: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9037  
 Step 192: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9039  
 Step 193: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9042  
 Step 194: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9044  
 Step 195: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9046  
 Step 196: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9047  
 Step 197: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9048  
 Step 198: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9049  
 Step 199: Loss: 0.0223, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.9050  
 Step 00: Loss: 0.8929, Total Entropy: 0.8929, Epistemic Entropy: 0.0165,  
 Aleatoric Entropy: 0.8764, Distance: 0.0000  
 Step 01: Loss: 0.3543, Total Entropy: 0.3463, Epistemic Entropy: 0.0051,  
 Aleatoric Entropy: 0.3412, Distance: 1.6000  
 Step 02: Loss: 0.0747, Total Entropy: 0.0607, Epistemic Entropy: 0.0006,  
 Aleatoric Entropy: 0.0601, Distance: 2.8037  
 Step 03: Loss: 0.0300, Total Entropy: 0.0105, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0104, Distance: 3.8994  
 Step 04: Loss: 0.0265, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 4.8302  
 Step 05: Loss: 0.0287, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.6197  
 Step 06: Loss: 0.0317, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2953  
 Step 07: Loss: 0.0345, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8779  
 Step 08: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3833  
 Step 09: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.8235  
 Step 10: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2078  
 Step 11: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5435  
 Step 12: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8366  
 Step 13: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0922  
 Step 14: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3143  
 Step 15: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5067  
 Step 16: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6723  
 Step 17: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8138  
 Step 18: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9336  
 Step 19: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0338  
 Step 20: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1162  
 Step 21: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1824  
 Step 22: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2338  
 Step 23: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2718  
 Step 24: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2976  
 Step 25: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3121  
 Step 26: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3164  
 Step 27: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3114  
 Step 28: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2978  
 Step 29: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2763  
 Step 30: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2477  
 Step 31: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2124  
 Step 32: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1711  
 Step 33: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.1242  
 Step 34: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0722  
 Step 35: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0156  
 Step 36: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9546  
 Step 37: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8897  
 Step 38: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8212  
 Step 39: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7494  
 Step 40: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6745  
 Step 41: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5969  
 Step 42: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5167  
 Step 43: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4341  
 Step 44: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3494  
 Step 45: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2628  
 Step 46: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1744  
 Step 47: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0844  
 Step 48: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9929  
 Step 49: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9000  
 Step 50: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8059  
 Step 51: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7107  
 Step 52: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6145  
 Step 53: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5175  
 Step 54: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4195  
 Step 55: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3209  
 Step 56: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2216  
 Step 57: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.1218  
 Step 58: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0214  
 Step 59: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9206  
 Step 60: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8194  
 Step 61: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7179  
 Step 62: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6161  
 Step 63: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5140  
 Step 64: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4118  
 Step 65: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3095  
 Step 66: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2070  
 Step 67: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1045  
 Step 68: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0020  
 Step 69: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8995  
 Step 70: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7970  
 Step 71: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6946  
 Step 72: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5923  
 Step 73: Loss: 0.0325, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4902  
 Step 74: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3883  
 Step 75: Loss: 0.0315, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2866  
 Step 76: Loss: 0.0310, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1851  
 Step 77: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0840  
 Step 78: Loss: 0.0300, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9832  
 Step 79: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8828  
 Step 80: Loss: 0.0291, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7828  
 Step 81: Loss: 0.0286, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 5.6834  
 Step 82: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5846  
 Step 83: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4863  
 Step 84: Loss: 0.0272, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3889  
 Step 85: Loss: 0.0268, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2922  
 Step 86: Loss: 0.0264, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1965  
 Step 87: Loss: 0.0260, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1019  
 Step 88: Loss: 0.0256, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.0084  
 Step 89: Loss: 0.0252, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.9163  
 Step 90: Loss: 0.0249, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.8258  
 Step 91: Loss: 0.0245, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.7370  
 Step 92: Loss: 0.0242, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.6502  
 Step 93: Loss: 0.0240, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.5656  
 Step 94: Loss: 0.0237, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.4835  
 Step 95: Loss: 0.0235, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.4043  
 Step 96: Loss: 0.0233, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.3282  
 Step 97: Loss: 0.0232, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.2556  
 Step 98: Loss: 0.0231, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.1870  
 Step 99: Loss: 0.0230, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.1227  
 Step 100: Loss: 0.0229, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0631  
 Step 101: Loss: 0.0229, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0086  
 Step 102: Loss: 0.0229, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.9595  
 Step 103: Loss: 0.0229, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9162  
 Step 104: Loss: 0.0229, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8789  
 Step 105: Loss: 0.0230, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0037, Distance: 3.8477  
 Step 106: Loss: 0.0230, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.8228  
 Step 107: Loss: 0.0230, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.8041  
 Step 108: Loss: 0.0230, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.7914  
 Step 109: Loss: 0.0230, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.7844  
 Step 110: Loss: 0.0229, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.7828  
 Step 111: Loss: 0.0229, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.7861  
 Step 112: Loss: 0.0229, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.7936  
 Step 113: Loss: 0.0228, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.8047  
 Step 114: Loss: 0.0228, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.8187  
 Step 115: Loss: 0.0228, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.8350  
 Step 116: Loss: 0.0227, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.8529  
 Step 117: Loss: 0.0227, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.8717  
 Step 118: Loss: 0.0227, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.8908  
 Step 119: Loss: 0.0227, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.9097  
 Step 120: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9279  
 Step 121: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9450  
 Step 122: Loss: 0.0226, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9607  
 Step 123: Loss: 0.0226, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9748  
 Step 124: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9870  
 Step 125: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9973  
 Step 126: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0056  
 Step 127: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0119  
 Step 128: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.0163  
 Step 129: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 4.0187  
 Step 130: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.0194  
 Step 131: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.0185  
 Step 132: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.0162  
 Step 133: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0126  
 Step 134: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0079  
 Step 135: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 4.0023  
 Step 136: Loss: 0.0226, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9960  
 Step 137: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9892  
 Step 138: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9821  
 Step 139: Loss: 0.0226, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9749  
 Step 140: Loss: 0.0226, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9677  
 Step 141: Loss: 0.0226, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9607  
 Step 142: Loss: 0.0226, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9540  
 Step 143: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9477  
 Step 144: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9420  
 Step 145: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9369  
 Step 146: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9325  
 Step 147: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9287  
 Step 148: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9257  
 Step 149: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9235  
 Step 150: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9219  
 Step 151: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9211  
 Step 152: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9209  
 Step 153: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,

[illegible]



Aleatoric Entropy: 0.0028, Distance: 3.9502  
 Step 178: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9495  
 Step 179: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9487  
 Step 180: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9478  
 Step 181: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9469  
 Step 182: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9461  
 Step 183: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9453  
 Step 184: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9446  
 Step 185: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9439  
 Step 186: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9433  
 Step 187: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9428  
 Step 188: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9423  
 Step 189: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9420  
 Step 190: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9418  
 Step 191: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9417  
 Step 192: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9416  
 Step 193: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9417  
 Step 194: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9418  
 Step 195: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9420  
 Step 196: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9422  
 Step 197: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9425  
 Step 198: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9428  
 Step 199: Loss: 0.0226, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9431  
 Step 00: Loss: 0.8832, Total Entropy: 0.8832, Epistemic Entropy: 0.0459,  
 Aleatoric Entropy: 0.8373, Distance: 0.0000  
 Step 01: Loss: 0.7336, Total Entropy: 0.7256, Epistemic Entropy: 0.0540,

Aleatoric Entropy: 0.6717, Distance: 1.6000  
 Step 02: Loss: 0.5306, Total Entropy: 0.5171, Epistemic Entropy: 0.0490,  
 Aleatoric Entropy: 0.4682, Distance: 2.6991  
 Step 03: Loss: 0.1614, Total Entropy: 0.1441, Epistemic Entropy: 0.0145,  
 Aleatoric Entropy: 0.1296, Distance: 3.4553  
 Step 04: Loss: 0.0426, Total Entropy: 0.0210, Epistemic Entropy: 0.0018,  
 Aleatoric Entropy: 0.0192, Distance: 4.3190  
 Step 05: Loss: 0.0290, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 5.1576  
 Step 06: Loss: 0.0302, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.9162  
 Step 07: Loss: 0.0331, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5898  
 Step 08: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1847  
 Step 09: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7094  
 Step 10: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1720  
 Step 11: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5794  
 Step 12: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9378  
 Step 13: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2525  
 Step 14: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5282  
 Step 15: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7688  
 Step 16: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9778  
 Step 17: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1584  
 Step 18: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3132  
 Step 19: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4447  
 Step 20: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5551  
 Step 21: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6462  
 Step 22: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7199  
 Step 23: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7778  
 Step 24: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8211  
 Step 25: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.8513  
 Step 26: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8695  
 Step 27: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8767  
 Step 28: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8739  
 Step 29: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8619  
 Step 30: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8417  
 Step 31: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8138  
 Step 32: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7789  
 Step 33: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7377  
 Step 34: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6906  
 Step 35: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6383  
 Step 36: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5811  
 Step 37: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5194  
 Step 38: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4537  
 Step 39: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3843  
 Step 40: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3114  
 Step 41: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2355  
 Step 42: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1567  
 Step 43: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0753  
 Step 44: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9916  
 Step 45: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9057  
 Step 46: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8179  
 Step 47: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7282  
 Step 48: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6369  
 Step 49: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.5442  
 Step 50: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4501  
 Step 51: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3547  
 Step 52: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2583  
 Step 53: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1609  
 Step 54: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0626  
 Step 55: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9634  
 Step 56: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8636  
 Step 57: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7631  
 Step 58: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6621  
 Step 59: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5606  
 Step 60: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4586  
 Step 61: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3563  
 Step 62: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2537  
 Step 63: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1508  
 Step 64: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0477  
 Step 65: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9444  
 Step 66: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8411  
 Step 67: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7376  
 Step 68: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6341  
 Step 69: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5306  
 Step 70: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4271  
 Step 71: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3237  
 Step 72: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2204  
 Step 73: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.1171  
 Step 74: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0141  
 Step 75: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9111  
 Step 76: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8084  
 Step 77: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7059  
 Step 78: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6036  
 Step 79: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5016  
 Step 80: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3999  
 Step 81: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2985  
 Step 82: Loss: 0.0310, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1974  
 Step 83: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0966  
 Step 84: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9963  
 Step 85: Loss: 0.0296, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8964  
 Step 86: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7969  
 Step 87: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6980  
 Step 88: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5996  
 Step 89: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5018  
 Step 90: Loss: 0.0272, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4047  
 Step 91: Loss: 0.0268, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3082  
 Step 92: Loss: 0.0264, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2126  
 Step 93: Loss: 0.0259, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1179  
 Step 94: Loss: 0.0255, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0243  
 Step 95: Loss: 0.0251, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9317  
 Step 96: Loss: 0.0248, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.8404  
 Step 97: Loss: 0.0244, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0006, Distance: 4.7505  
 Step 98: Loss: 0.0241, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.6622  
 Step 99: Loss: 0.0237, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.5758  
 Step 100: Loss: 0.0235, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.4914  
 Step 101: Loss: 0.0232, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.4093  
 Step 102: Loss: 0.0230, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.3299  
 Step 103: Loss: 0.0228, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.2533  
 Step 104: Loss: 0.0226, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.1801  
 Step 105: Loss: 0.0225, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.1105  
 Step 106: Loss: 0.0223, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 4.0449  
 Step 107: Loss: 0.0222, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.9839  
 Step 108: Loss: 0.0222, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.9277  
 Step 109: Loss: 0.0221, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.8767  
 Step 110: Loss: 0.0221, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.8313  
 Step 111: Loss: 0.0221, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7917  
 Step 112: Loss: 0.0221, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.7583  
 Step 113: Loss: 0.0220, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.7309  
 Step 114: Loss: 0.0220, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.7098  
 Step 115: Loss: 0.0220, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.6946  
 Step 116: Loss: 0.0220, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.6851  
 Step 117: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.6810  
 Step 118: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.6817  
 Step 119: Loss: 0.0219, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.6866  
 Step 120: Loss: 0.0218, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.6950  
 Step 121: Loss: 0.0218, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0032, Distance: 3.7062  
 Step 122: Loss: 0.0218, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.7196  
 Step 123: Loss: 0.0217, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7345  
 Step 124: Loss: 0.0217, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.7501  
 Step 125: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.7659  
 Step 126: Loss: 0.0217, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.7813  
 Step 127: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7960  
 Step 128: Loss: 0.0217, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.8096  
 Step 129: Loss: 0.0217, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.8217  
 Step 130: Loss: 0.0217, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.8321  
 Step 131: Loss: 0.0217, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.8408  
 Step 132: Loss: 0.0217, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8477  
 Step 133: Loss: 0.0217, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8526  
 Step 134: Loss: 0.0217, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8557  
 Step 135: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8571  
 Step 136: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8568  
 Step 137: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8551  
 Step 138: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8520  
 Step 139: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8477  
 Step 140: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8425  
 Step 141: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.8366  
 Step 142: Loss: 0.0216, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.8301  
 Step 143: Loss: 0.0216, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.8232  
 Step 144: Loss: 0.0216, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.8162  
 Step 145: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,

[illegible]





Aleatoric Entropy: 0.0026, Distance: 3.7801  
 Step 194: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7800  
 Step 195: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7800  
 Step 196: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7801  
 Step 197: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7803  
 Step 198: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7805  
 Step 199: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7807  
 Step 00: Loss: 0.8366, Total Entropy: 0.8366, Epistemic Entropy: 0.0178,  
 Aleatoric Entropy: 0.8188, Distance: 0.0000  
 Step 01: Loss: 0.6422, Total Entropy: 0.6342, Epistemic Entropy: 0.0131,  
 Aleatoric Entropy: 0.6211, Distance: 1.6000  
 Step 02: Loss: 0.1889, Total Entropy: 0.1766, Epistemic Entropy: 0.0026,  
 Aleatoric Entropy: 0.1740, Distance: 2.4709  
 Step 03: Loss: 0.0400, Total Entropy: 0.0224, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0222, Distance: 3.5127  
 Step 04: Loss: 0.0257, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 4.4875  
 Step 05: Loss: 0.0273, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.3373  
 Step 06: Loss: 0.0305, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0721  
 Step 07: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7088  
 Step 08: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2626  
 Step 09: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7454  
 Step 10: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1672  
 Step 11: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5358  
 Step 12: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8577  
 Step 13: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1384  
 Step 14: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3825  
 Step 15: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5939  
 Step 16: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7761  
 Step 17: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.9318  
 Step 18: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0637  
 Step 19: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1740  
 Step 20: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2648  
 Step 21: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3379  
 Step 22: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3947  
 Step 23: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4368  
 Step 24: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4655  
 Step 25: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4819  
 Step 26: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4871  
 Step 27: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4820  
 Step 28: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4676  
 Step 29: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4447  
 Step 30: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4140  
 Step 31: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3761  
 Step 32: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3317  
 Step 33: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2814  
 Step 34: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2256  
 Step 35: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1648  
 Step 36: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0995  
 Step 37: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0300  
 Step 38: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9566  
 Step 39: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8798  
 Step 40: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7997  
 Step 41: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.7167  
 Step 42: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6310  
 Step 43: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5428  
 Step 44: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4524  
 Step 45: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3599  
 Step 46: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2656  
 Step 47: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1695  
 Step 48: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0720  
 Step 49: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9730  
 Step 50: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8727  
 Step 51: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7714  
 Step 52: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6690  
 Step 53: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5657  
 Step 54: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4617  
 Step 55: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3569  
 Step 56: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2515  
 Step 57: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1456  
 Step 58: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0393  
 Step 59: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9325  
 Step 60: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8255  
 Step 61: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7182  
 Step 62: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6106  
 Step 63: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5030  
 Step 64: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3952  
 Step 65: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.2874  
 Step 66: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1796  
 Step 67: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0718  
 Step 68: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9640  
 Step 69: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8564  
 Step 70: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7489  
 Step 71: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6416  
 Step 72: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5345  
 Step 73: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4276  
 Step 74: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3210  
 Step 75: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2148  
 Step 76: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1088  
 Step 77: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0032  
 Step 78: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8981  
 Step 79: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7934  
 Step 80: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6892  
 Step 81: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5855  
 Step 82: Loss: 0.0275, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4824  
 Step 83: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3799  
 Step 84: Loss: 0.0266, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2781  
 Step 85: Loss: 0.0261, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1771  
 Step 86: Loss: 0.0256, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0769  
 Step 87: Loss: 0.0252, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9777  
 Step 88: Loss: 0.0247, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8795  
 Step 89: Loss: 0.0243, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 4.7825  
 Step 90: Loss: 0.0239, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.6867  
 Step 91: Loss: 0.0235, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5924  
 Step 92: Loss: 0.0231, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.4998  
 Step 93: Loss: 0.0228, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.4090  
 Step 94: Loss: 0.0225, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.3204  
 Step 95: Loss: 0.0222, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.2341  
 Step 96: Loss: 0.0219, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.1505  
 Step 97: Loss: 0.0217, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.0700  
 Step 98: Loss: 0.0215, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.9929  
 Step 99: Loss: 0.0214, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.9197  
 Step 100: Loss: 0.0213, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.8507  
 Step 101: Loss: 0.0212, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7866  
 Step 102: Loss: 0.0211, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7277  
 Step 103: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6745  
 Step 104: Loss: 0.0211, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6274  
 Step 105: Loss: 0.0211, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.5869  
 Step 106: Loss: 0.0211, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.5531  
 Step 107: Loss: 0.0211, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5261  
 Step 108: Loss: 0.0211, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5061  
 Step 109: Loss: 0.0211, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4929  
 Step 110: Loss: 0.0211, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4860  
 Step 111: Loss: 0.0210, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4851  
 Step 112: Loss: 0.0210, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4895  
 Step 113: Loss: 0.0209, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0034, Distance: 3.4985  
 Step 114: Loss: 0.0209, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.5113  
 Step 115: Loss: 0.0208, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.5269  
 Step 116: Loss: 0.0208, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.5445  
 Step 117: Loss: 0.0208, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5634  
 Step 118: Loss: 0.0207, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5827  
 Step 119: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6018  
 Step 120: Loss: 0.0207, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6200  
 Step 121: Loss: 0.0207, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6368  
 Step 122: Loss: 0.0207, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6520  
 Step 123: Loss: 0.0207, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6651  
 Step 124: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6760  
 Step 125: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6846  
 Step 126: Loss: 0.0207, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6909  
 Step 127: Loss: 0.0207, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6948  
 Step 128: Loss: 0.0207, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6966  
 Step 129: Loss: 0.0207, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6962  
 Step 130: Loss: 0.0207, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6940  
 Step 131: Loss: 0.0207, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6902  
 Step 132: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6848  
 Step 133: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6783  
 Step 134: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6709  
 Step 135: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6628  
 Step 136: Loss: 0.0207, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6543  
 Step 137: Loss: 0.0206, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0024, Distance: 3.6455  
 Step 138: Loss: 0.0206, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6369  
 Step 139: Loss: 0.0206, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6284  
 Step 140: Loss: 0.0206, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6204  
 Step 141: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6130  
 Step 142: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6062  
 Step 143: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6004  
 Step 144: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5954  
 Step 145: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5913  
 Step 146: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5882  
 Step 147: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5861  
 Step 148: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5849  
 Step 149: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5845  
 Step 150: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5849  
 Step 151: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5860  
 Step 152: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5878  
 Step 153: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5899  
 Step 154: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5925  
 Step 155: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5953  
 Step 156: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5983  
 Step 157: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6013  
 Step 158: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6043  
 Step 159: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6071  
 Step 160: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6097  
 Step 161: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0026, Distance: 3.6056  
 Step 186: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6056  
 Step 187: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6057  
 Step 188: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6060  
 Step 189: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6063  
 Step 190: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6067  
 Step 191: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6071  
 Step 192: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6076  
 Step 193: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6081  
 Step 194: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6086  
 Step 195: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6091  
 Step 196: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6095  
 Step 197: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6099  
 Step 198: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6103  
 Step 199: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6106  
 Step 00: Loss: 0.8199, Total Entropy: 0.8199, Epistemic Entropy: 0.0322,  
 Aleatoric Entropy: 0.7877, Distance: 0.0000  
 Step 01: Loss: 0.6907, Total Entropy: 0.6827, Epistemic Entropy: 0.0295,  
 Aleatoric Entropy: 0.6532, Distance: 1.6000  
 Step 02: Loss: 0.2947, Total Entropy: 0.2820, Epistemic Entropy: 0.0107,  
 Aleatoric Entropy: 0.2713, Distance: 2.5324  
 Step 03: Loss: 0.0639, Total Entropy: 0.0462, Epistemic Entropy: 0.0014,  
 Aleatoric Entropy: 0.0448, Distance: 3.5429  
 Step 04: Loss: 0.0297, Total Entropy: 0.0070, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0068, Distance: 4.5463  
 Step 05: Loss: 0.0285, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 5.4393  
 Step 06: Loss: 0.0314, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.2174  
 Step 07: Loss: 0.0346, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8942  
 Step 08: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4839  
 Step 09: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.9985  
 Step 10: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4481  
 Step 11: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8408  
 Step 12: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1834  
 Step 13: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4816  
 Step 14: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7404  
 Step 15: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9638  
 Step 16: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1556  
 Step 17: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3188  
 Step 18: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4562  
 Step 19: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5704  
 Step 20: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6633  
 Step 21: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7372  
 Step 22: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7935  
 Step 23: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8341  
 Step 24: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8601  
 Step 25: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8730  
 Step 26: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8739  
 Step 27: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8638  
 Step 28: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8438  
 Step 29: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8146  
 Step 30: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7771  
 Step 31: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7319  
 Step 32: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6798  
 Step 33: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.6214  
 Step 34: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5571  
 Step 35: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4876  
 Step 36: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4132  
 Step 37: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3344  
 Step 38: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2516  
 Step 39: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1651  
 Step 40: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0753  
 Step 41: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9824  
 Step 42: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8868  
 Step 43: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7887  
 Step 44: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6883  
 Step 45: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5858  
 Step 46: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4815  
 Step 47: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3755  
 Step 48: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2680  
 Step 49: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1592  
 Step 50: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0492  
 Step 51: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9381  
 Step 52: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8260  
 Step 53: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7132  
 Step 54: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5995  
 Step 55: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4853  
 Step 56: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3705  
 Step 57: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.2553  
 Step 58: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1396  
 Step 59: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0237  
 Step 60: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9075  
 Step 61: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7911  
 Step 62: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6746  
 Step 63: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5579  
 Step 64: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4413  
 Step 65: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3246  
 Step 66: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2080  
 Step 67: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0914  
 Step 68: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9750  
 Step 69: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8587  
 Step 70: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7426  
 Step 71: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6268  
 Step 72: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5111  
 Step 73: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3958  
 Step 74: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2808  
 Step 75: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1662  
 Step 76: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0520  
 Step 77: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9382  
 Step 78: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8249  
 Step 79: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7121  
 Step 80: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6000  
 Step 81: Loss: 0.0276, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.4885  
Step 82: Loss: 0.0271, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 5.3777  
Step 83: Loss: 0.0265, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 5.2678  
Step 84: Loss: 0.0260, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 5.1588  
Step 85: Loss: 0.0256, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 5.0508  
Step 86: Loss: 0.0251, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 4.9441  
Step 87: Loss: 0.0246, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 4.8388  
Step 88: Loss: 0.0242, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0005, Distance: 4.7351  
Step 89: Loss: 0.0238, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0006, Distance: 4.6332  
Step 90: Loss: 0.0235, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0008, Distance: 4.5334  
Step 91: Loss: 0.0231, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0009, Distance: 4.4362  
Step 92: Loss: 0.0228, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0011, Distance: 4.3418  
Step 93: Loss: 0.0226, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0013, Distance: 4.2507  
Step 94: Loss: 0.0224, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0015, Distance: 4.1634  
Step 95: Loss: 0.0222, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0018, Distance: 4.0805  
Step 96: Loss: 0.0221, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0021, Distance: 4.0026  
Step 97: Loss: 0.0221, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 3.9304  
Step 98: Loss: 0.0220, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.8645  
Step 99: Loss: 0.0220, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0030, Distance: 3.8055  
Step 100: Loss: 0.0221, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0032, Distance: 3.7542  
Step 101: Loss: 0.0221, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0035, Distance: 3.7109  
Step 102: Loss: 0.0221, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0037, Distance: 3.6760  
Step 103: Loss: 0.0221, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0038, Distance: 3.6498  
Step 104: Loss: 0.0221, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
Aleatoric Entropy: 0.0039, Distance: 3.6322  
Step 105: Loss: 0.0221, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0039, Distance: 3.6229  
 Step 106: Loss: 0.0221, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.6214  
 Step 107: Loss: 0.0220, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.6270  
 Step 108: Loss: 0.0219, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.6386  
 Step 109: Loss: 0.0219, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.6552  
 Step 110: Loss: 0.0218, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.6756  
 Step 111: Loss: 0.0218, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.6987  
 Step 112: Loss: 0.0217, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7233  
 Step 113: Loss: 0.0217, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.7485  
 Step 114: Loss: 0.0217, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7732  
 Step 115: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7966  
 Step 116: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8181  
 Step 117: Loss: 0.0216, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8373  
 Step 118: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.8537  
 Step 119: Loss: 0.0216, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.8672  
 Step 120: Loss: 0.0217, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8775  
 Step 121: Loss: 0.0217, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8848  
 Step 122: Loss: 0.0217, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8891  
 Step 123: Loss: 0.0217, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8905  
 Step 124: Loss: 0.0217, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8893  
 Step 125: Loss: 0.0216, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8857  
 Step 126: Loss: 0.0216, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8801  
 Step 127: Loss: 0.0216, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8727  
 Step 128: Loss: 0.0216, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.8638  
 Step 129: Loss: 0.0216, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0023, Distance: 3.8540  
 Step 130: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.8433  
 Step 131: Loss: 0.0216, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8323  
 Step 132: Loss: 0.0216, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8213  
 Step 133: Loss: 0.0216, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8104  
 Step 134: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8000  
 Step 135: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7903  
 Step 136: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7815  
 Step 137: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7738  
 Step 138: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7672  
 Step 139: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7619  
 Step 140: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7579  
 Step 141: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7552  
 Step 142: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7537  
 Step 143: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7533  
 Step 144: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7540  
 Step 145: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7557  
 Step 146: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7581  
 Step 147: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7611  
 Step 148: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7646  
 Step 149: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7685  
 Step 150: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7725  
 Step 151: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7765  
 Step 152: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7803  
 Step 153: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0026, Distance: 3.7797  
 Step 178: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7795  
 Step 179: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7795  
 Step 180: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7797  
 Step 181: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7800  
 Step 182: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7804  
 Step 183: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7810  
 Step 184: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7816  
 Step 185: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7822  
 Step 186: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7829  
 Step 187: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7835  
 Step 188: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7841  
 Step 189: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7847  
 Step 190: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7852  
 Step 191: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7856  
 Step 192: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7859  
 Step 193: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7862  
 Step 194: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7864  
 Step 195: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7864  
 Step 196: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7865  
 Step 197: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7864  
 Step 198: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7863  
 Step 199: Loss: 0.0216, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.7861  
 Step 00: Loss: 0.8133, Total Entropy: 0.8133, Epistemic Entropy: 0.0099,  
 Aleatoric Entropy: 0.8034, Distance: 0.0000  
 Step 01: Loss: 0.1853, Total Entropy: 0.1773, Epistemic Entropy: 0.0018,

Aleatoric Entropy: 0.1755, Distance: 1.6000  
 Step 02: Loss: 0.0415, Total Entropy: 0.0266, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0264, Distance: 2.9836  
 Step 03: Loss: 0.0263, Total Entropy: 0.0057, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0057, Distance: 4.1183  
 Step 04: Loss: 0.0269, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 5.0449  
 Step 05: Loss: 0.0297, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.8148  
 Step 06: Loss: 0.0326, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.4634  
 Step 07: Loss: 0.0352, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0151  
 Step 08: Loss: 0.0375, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.4872  
 Step 09: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8926  
 Step 10: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2413  
 Step 11: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5410  
 Step 12: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7981  
 Step 13: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0179  
 Step 14: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2048  
 Step 15: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3624  
 Step 16: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4942  
 Step 17: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6027  
 Step 18: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6904  
 Step 19: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7596  
 Step 20: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8120  
 Step 21: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8493  
 Step 22: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8731  
 Step 23: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8846  
 Step 24: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8850  
 Step 25: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.8754  
 Step 26: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8568  
 Step 27: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8299  
 Step 28: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7957  
 Step 29: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7547  
 Step 30: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7077  
 Step 31: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6551  
 Step 32: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5976  
 Step 33: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5357  
 Step 34: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4696  
 Step 35: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4000  
 Step 36: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3270  
 Step 37: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2511  
 Step 38: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1725  
 Step 39: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0916  
 Step 40: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0086  
 Step 41: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9237  
 Step 42: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8370  
 Step 43: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7489  
 Step 44: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6595  
 Step 45: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5688  
 Step 46: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4772  
 Step 47: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3846  
 Step 48: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2912  
 Step 49: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.1971  
 Step 50: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1024  
 Step 51: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0072  
 Step 52: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9115  
 Step 53: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8155  
 Step 54: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7191  
 Step 55: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6226  
 Step 56: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5258  
 Step 57: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4289  
 Step 58: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3319  
 Step 59: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2349  
 Step 60: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1379  
 Step 61: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0409  
 Step 62: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9440  
 Step 63: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8472  
 Step 64: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7505  
 Step 65: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6539  
 Step 66: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5576  
 Step 67: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4614  
 Step 68: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3654  
 Step 69: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2697  
 Step 70: Loss: 0.0309, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1743  
 Step 71: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0791  
 Step 72: Loss: 0.0300, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9843  
 Step 73: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.8898  
 Step 74: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7957  
 Step 75: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7020  
 Step 76: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6087  
 Step 77: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5158  
 Step 78: Loss: 0.0273, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4235  
 Step 79: Loss: 0.0269, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3318  
 Step 80: Loss: 0.0264, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2406  
 Step 81: Loss: 0.0260, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1502  
 Step 82: Loss: 0.0256, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.0604  
 Step 83: Loss: 0.0252, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.9715  
 Step 84: Loss: 0.0248, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.8835  
 Step 85: Loss: 0.0245, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.7965  
 Step 86: Loss: 0.0241, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7106  
 Step 87: Loss: 0.0238, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.6260  
 Step 88: Loss: 0.0235, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.5428  
 Step 89: Loss: 0.0232, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.4613  
 Step 90: Loss: 0.0229, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.3815  
 Step 91: Loss: 0.0227, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.3038  
 Step 92: Loss: 0.0224, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.2283  
 Step 93: Loss: 0.0222, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.1554  
 Step 94: Loss: 0.0221, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.0853  
 Step 95: Loss: 0.0219, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.0183  
 Step 96: Loss: 0.0218, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.9548  
 Step 97: Loss: 0.0218, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0023, Distance: 3.8951  
 Step 98: Loss: 0.0217, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8396  
 Step 99: Loss: 0.0217, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7885  
 Step 100: Loss: 0.0216, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7422  
 Step 101: Loss: 0.0216, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7009  
 Step 102: Loss: 0.0216, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6648  
 Step 103: Loss: 0.0216, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6342  
 Step 104: Loss: 0.0216, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6090  
 Step 105: Loss: 0.0216, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.5891  
 Step 106: Loss: 0.0216, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.5746  
 Step 107: Loss: 0.0216, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.5651  
 Step 108: Loss: 0.0216, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.5603  
 Step 109: Loss: 0.0216, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.5597  
 Step 110: Loss: 0.0215, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.5629  
 Step 111: Loss: 0.0215, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.5694  
 Step 112: Loss: 0.0215, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.5785  
 Step 113: Loss: 0.0215, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5897  
 Step 114: Loss: 0.0214, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6025  
 Step 115: Loss: 0.0214, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6162  
 Step 116: Loss: 0.0214, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.6305  
 Step 117: Loss: 0.0214, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6449  
 Step 118: Loss: 0.0214, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6590  
 Step 119: Loss: 0.0214, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6724  
 Step 120: Loss: 0.0214, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6849  
 Step 121: Loss: 0.0214, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0029, Distance: 3.6963  
 Step 122: Loss: 0.0214, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7065  
 Step 123: Loss: 0.0214, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7153  
 Step 124: Loss: 0.0214, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7226  
 Step 125: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7285  
 Step 126: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7330  
 Step 127: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7361  
 Step 128: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7379  
 Step 129: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7385  
 Step 130: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7380  
 Step 131: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7365  
 Step 132: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7341  
 Step 133: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7311  
 Step 134: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7275  
 Step 135: Loss: 0.0213, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7234  
 Step 136: Loss: 0.0213, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7190  
 Step 137: Loss: 0.0213, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7145  
 Step 138: Loss: 0.0213, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7099  
 Step 139: Loss: 0.0213, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7053  
 Step 140: Loss: 0.0213, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7009  
 Step 141: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6967  
 Step 142: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6928  
 Step 143: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6892  
 Step 144: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6860  
 Step 145: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,



[illegible]

[illegible]

Aleatoric Entropy: 0.0029, Distance: 3.6889  
 Step 194: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6889  
 Step 195: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6890  
 Step 196: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6891  
 Step 197: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6892  
 Step 198: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6894  
 Step 199: Loss: 0.0213, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6895  
 Step 00: Loss: 0.8110, Total Entropy: 0.8110, Epistemic Entropy: 0.0363,  
 Aleatoric Entropy: 0.7747, Distance: 0.0000  
 Step 01: Loss: 0.1431, Total Entropy: 0.1351, Epistemic Entropy: 0.0041,  
 Aleatoric Entropy: 0.1310, Distance: 1.6000  
 Step 02: Loss: 0.0343, Total Entropy: 0.0195, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0192, Distance: 2.9598  
 Step 03: Loss: 0.0243, Total Entropy: 0.0042, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0041, Distance: 4.0313  
 Step 04: Loss: 0.0257, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.8998  
 Step 05: Loss: 0.0285, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6209  
 Step 06: Loss: 0.0313, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2291  
 Step 07: Loss: 0.0338, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7475  
 Step 08: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1922  
 Step 09: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5754  
 Step 10: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9062  
 Step 11: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1918  
 Step 12: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4381  
 Step 13: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6499  
 Step 14: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8313  
 Step 15: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9858  
 Step 16: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1163  
 Step 17: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.2253  
Step 18: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3152  
Step 19: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3878  
Step 20: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4449  
Step 21: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4880  
Step 22: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5185  
Step 23: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5375  
Step 24: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5462  
Step 25: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5454  
Step 26: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5361  
Step 27: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5191  
Step 28: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4950  
Step 29: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4645  
Step 30: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4281  
Step 31: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3864  
Step 32: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3399  
Step 33: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2890  
Step 34: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2340  
Step 35: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1755  
Step 36: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1135  
Step 37: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0486  
Step 38: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.9809  
Step 39: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.9108  
Step 40: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.8383  
Step 41: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.7638  
Step 42: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6875  
Step 43: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6095  
Step 44: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.5300  
Step 45: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.4490  
Step 46: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.3669  
Step 47: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.2837  
Step 48: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1994  
Step 49: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1143  
Step 50: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.0284  
Step 51: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.9418  
Step 52: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.8546  
Step 53: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.7668  
Step 54: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.6785  
Step 55: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.5899  
Step 56: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.5009  
Step 57: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.4116  
Step 58: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.3221  
Step 59: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.2323  
Step 60: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.1425  
Step 61: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.0525  
Step 62: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.9624  
Step 63: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.8723  
Step 64: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.7821  
Step 65: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.6920  
 Step 66: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6020  
 Step 67: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5120  
 Step 68: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4221  
 Step 69: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3324  
 Step 70: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2428  
 Step 71: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1534  
 Step 72: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0643  
 Step 73: Loss: 0.0299, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9753  
 Step 74: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8867  
 Step 75: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7983  
 Step 76: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7102  
 Step 77: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6224  
 Step 78: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5350  
 Step 79: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4480  
 Step 80: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3614  
 Step 81: Loss: 0.0265, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2752  
 Step 82: Loss: 0.0261, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1895  
 Step 83: Loss: 0.0257, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1044  
 Step 84: Loss: 0.0253, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0198  
 Step 85: Loss: 0.0249, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9358  
 Step 86: Loss: 0.0246, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8525  
 Step 87: Loss: 0.0242, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7699  
 Step 88: Loss: 0.0238, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6882  
 Step 89: Loss: 0.0235, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0005, Distance: 4.6073  
 Step 90: Loss: 0.0232, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5275  
 Step 91: Loss: 0.0228, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.4487  
 Step 92: Loss: 0.0225, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.3712  
 Step 93: Loss: 0.0222, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.2950  
 Step 94: Loss: 0.0220, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.2203  
 Step 95: Loss: 0.0217, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.1473  
 Step 96: Loss: 0.0215, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.0761  
 Step 97: Loss: 0.0213, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.0070  
 Step 98: Loss: 0.0211, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.9401  
 Step 99: Loss: 0.0209, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.8757  
 Step 100: Loss: 0.0208, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.8140  
 Step 101: Loss: 0.0207, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.7553  
 Step 102: Loss: 0.0206, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.6997  
 Step 103: Loss: 0.0205, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6477  
 Step 104: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5993  
 Step 105: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.5549  
 Step 106: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.5147  
 Step 107: Loss: 0.0204, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.4788  
 Step 108: Loss: 0.0204, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.4474  
 Step 109: Loss: 0.0204, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.4206  
 Step 110: Loss: 0.0204, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.3984  
 Step 111: Loss: 0.0204, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.3807  
 Step 112: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.3676  
 Step 113: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0035, Distance: 3.3587  
 Step 114: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.3539  
 Step 115: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.3527  
 Step 116: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.3548  
 Step 117: Loss: 0.0202, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.3598  
 Step 118: Loss: 0.0202, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.3673  
 Step 119: Loss: 0.0202, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3766  
 Step 120: Loss: 0.0202, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3875  
 Step 121: Loss: 0.0202, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.3993  
 Step 122: Loss: 0.0201, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.4117  
 Step 123: Loss: 0.0201, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.4243  
 Step 124: Loss: 0.0201, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.4367  
 Step 125: Loss: 0.0201, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.4486  
 Step 126: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4598  
 Step 127: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4701  
 Step 128: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4793  
 Step 129: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4873  
 Step 130: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4941  
 Step 131: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4995  
 Step 132: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5037  
 Step 133: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5067  
 Step 134: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5084  
 Step 135: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5091  
 Step 136: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5087  
 Step 137: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,







Aleatoric Entropy: 0.0027, Distance: 3.4639  
 Step 186: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4634  
 Step 187: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4630  
 Step 188: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4626  
 Step 189: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4622  
 Step 190: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4618  
 Step 191: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4615  
 Step 192: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4612  
 Step 193: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4609  
 Step 194: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4607  
 Step 195: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4605  
 Step 196: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4604  
 Step 197: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4603  
 Step 198: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4603  
 Step 199: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4603  
 Step 00: Loss: 0.8100, Total Entropy: 0.8100, Epistemic Entropy: 0.0349,  
 Aleatoric Entropy: 0.7750, Distance: 0.0000  
 Step 01: Loss: 0.6988, Total Entropy: 0.6908, Epistemic Entropy: 0.0268,  
 Aleatoric Entropy: 0.6641, Distance: 1.6000  
 Step 02: Loss: 0.2942, Total Entropy: 0.2817, Epistemic Entropy: 0.0090,  
 Aleatoric Entropy: 0.2727, Distance: 2.5011  
 Step 03: Loss: 0.0613, Total Entropy: 0.0439, Epistemic Entropy: 0.0011,  
 Aleatoric Entropy: 0.0428, Distance: 3.4832  
 Step 04: Loss: 0.0287, Total Entropy: 0.0063, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0062, Distance: 4.4703  
 Step 05: Loss: 0.0279, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.3516  
 Step 06: Loss: 0.0309, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1205  
 Step 07: Loss: 0.0340, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7897  
 Step 08: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3729  
 Step 09: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.8819  
 Step 10: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3266  
 Step 11: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7149  
 Step 12: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0536  
 Step 13: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3484  
 Step 14: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6041  
 Step 15: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8247  
 Step 16: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0139  
 Step 17: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1749  
 Step 18: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3102  
 Step 19: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4225  
 Step 20: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5138  
 Step 21: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5861  
 Step 22: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6411  
 Step 23: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6804  
 Step 24: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7054  
 Step 25: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7173  
 Step 26: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7173  
 Step 27: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7065  
 Step 28: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6858  
 Step 29: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6561  
 Step 30: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6181  
 Step 31: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5726  
 Step 32: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5203  
 Step 33: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.4617  
 Step 34: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3974  
 Step 35: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3279  
 Step 36: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2537  
 Step 37: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1752  
 Step 38: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0927  
 Step 39: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0068  
 Step 40: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9175  
 Step 41: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8254  
 Step 42: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7306  
 Step 43: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6334  
 Step 44: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5340  
 Step 45: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4327  
 Step 46: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3296  
 Step 47: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2249  
 Step 48: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1188  
 Step 49: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0114  
 Step 50: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9028  
 Step 51: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7933  
 Step 52: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6828  
 Step 53: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5715  
 Step 54: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4595  
 Step 55: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3468  
 Step 56: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2336  
 Step 57: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.1198  
 Step 58: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0056  
 Step 59: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8911  
 Step 60: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7761  
 Step 61: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6609  
 Step 62: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5454  
 Step 63: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4297  
 Step 64: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3139  
 Step 65: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1979  
 Step 66: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0817  
 Step 67: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9655  
 Step 68: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8493  
 Step 69: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7330  
 Step 70: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6168  
 Step 71: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5005  
 Step 72: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3844  
 Step 73: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2684  
 Step 74: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1526  
 Step 75: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0369  
 Step 76: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9215  
 Step 77: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8063  
 Step 78: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6915  
 Step 79: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5771  
 Step 80: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4631  
 Step 81: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.3496  
 Step 82: Loss: 0.0263, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2368  
 Step 83: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1248  
 Step 84: Loss: 0.0253, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0136  
 Step 85: Loss: 0.0248, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9034  
 Step 86: Loss: 0.0243, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.7944  
 Step 87: Loss: 0.0239, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6868  
 Step 88: Loss: 0.0235, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.5809  
 Step 89: Loss: 0.0231, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.4770  
 Step 90: Loss: 0.0227, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.3754  
 Step 91: Loss: 0.0224, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.2765  
 Step 92: Loss: 0.0221, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.1809  
 Step 93: Loss: 0.0219, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.0891  
 Step 94: Loss: 0.0217, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.0017  
 Step 95: Loss: 0.0216, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.9194  
 Step 96: Loss: 0.0215, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.8431  
 Step 97: Loss: 0.0215, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7733  
 Step 98: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.7111  
 Step 99: Loss: 0.0216, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.6569  
 Step 100: Loss: 0.0216, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.6116  
 Step 101: Loss: 0.0216, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.5755  
 Step 102: Loss: 0.0216, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.5489  
 Step 103: Loss: 0.0216, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.5317  
 Step 104: Loss: 0.0216, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0039, Distance: 3.5236  
 Step 105: Loss: 0.0216, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0039, Distance: 3.5239  
 Step 106: Loss: 0.0215, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.5318  
 Step 107: Loss: 0.0214, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.5461  
 Step 108: Loss: 0.0214, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.5655  
 Step 109: Loss: 0.0213, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.5887  
 Step 110: Loss: 0.0212, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.6143  
 Step 111: Loss: 0.0212, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.6412  
 Step 112: Loss: 0.0212, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.6681  
 Step 113: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6940  
 Step 114: Loss: 0.0211, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.7182  
 Step 115: Loss: 0.0211, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7400  
 Step 116: Loss: 0.0211, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7589  
 Step 117: Loss: 0.0211, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7746  
 Step 118: Loss: 0.0211, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7870  
 Step 119: Loss: 0.0211, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.7961  
 Step 120: Loss: 0.0211, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.8018  
 Step 121: Loss: 0.0211, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.8043  
 Step 122: Loss: 0.0211, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.8040  
 Step 123: Loss: 0.0211, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.8010  
 Step 124: Loss: 0.0211, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.7956  
 Step 125: Loss: 0.0211, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.7883  
 Step 126: Loss: 0.0211, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7794  
 Step 127: Loss: 0.0211, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7692  
 Step 128: Loss: 0.0211, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7582  
 Step 129: Loss: 0.0211, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0023, Distance: 3.7466  
 Step 130: Loss: 0.0211, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7349  
 Step 131: Loss: 0.0211, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.7234  
 Step 132: Loss: 0.0211, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.7123  
 Step 133: Loss: 0.0211, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.7020  
 Step 134: Loss: 0.0211, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6926  
 Step 135: Loss: 0.0211, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6844  
 Step 136: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6774  
 Step 137: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6718  
 Step 138: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.6676  
 Step 139: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.6647  
 Step 140: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.6632  
 Step 141: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.6630  
 Step 142: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.6639  
 Step 143: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.6658  
 Step 144: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.6685  
 Step 145: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6719  
 Step 146: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6757  
 Step 147: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6798  
 Step 148: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6841  
 Step 149: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6883  
 Step 150: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6923  
 Step 151: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6960  
 Step 152: Loss: 0.0210, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6993  
 Step 153: Loss: 0.0210, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0025, Distance: 3.6906  
 Step 178: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6910  
 Step 179: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6915  
 Step 180: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6921  
 Step 181: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6927  
 Step 182: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6934  
 Step 183: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6941  
 Step 184: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6947  
 Step 185: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6953  
 Step 186: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6958  
 Step 187: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6962  
 Step 188: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6966  
 Step 189: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6968  
 Step 190: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6970  
 Step 191: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6970  
 Step 192: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6970  
 Step 193: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6969  
 Step 194: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6968  
 Step 195: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6966  
 Step 196: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6963  
 Step 197: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6960  
 Step 198: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6958  
 Step 199: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6955  
 Step 00: Loss: 0.8084, Total Entropy: 0.8084, Epistemic Entropy: 0.0267,  
 Aleatoric Entropy: 0.7816, Distance: 0.0000  
 Step 01: Loss: 0.1696, Total Entropy: 0.1616, Epistemic Entropy: 0.0033,

Aleatoric Entropy: 0.1583, Distance: 1.6000  
 Step 02: Loss: 0.0388, Total Entropy: 0.0239, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0235, Distance: 2.9961  
 Step 03: Loss: 0.0252, Total Entropy: 0.0046, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0046, Distance: 4.1115  
 Step 04: Loss: 0.0262, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.0143  
 Step 05: Loss: 0.0292, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.7602  
 Step 06: Loss: 0.0321, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3860  
 Step 07: Loss: 0.0346, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9163  
 Step 08: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3688  
 Step 09: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7563  
 Step 10: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0889  
 Step 11: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3745  
 Step 12: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6192  
 Step 13: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8285  
 Step 14: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0064  
 Step 15: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1568  
 Step 16: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2826  
 Step 17: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3865  
 Step 18: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4708  
 Step 19: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5376  
 Step 20: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5885  
 Step 21: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6252  
 Step 22: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6490  
 Step 23: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6612  
 Step 24: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6630  
 Step 25: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.6552  
 Step 26: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6389  
 Step 27: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6148  
 Step 28: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5836  
 Step 29: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5461  
 Step 30: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5026  
 Step 31: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4539  
 Step 32: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4004  
 Step 33: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3426  
 Step 34: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2808  
 Step 35: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2154  
 Step 36: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1469  
 Step 37: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0754  
 Step 38: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0014  
 Step 39: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9251  
 Step 40: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8467  
 Step 41: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7665  
 Step 42: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6845  
 Step 43: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6012  
 Step 44: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5165  
 Step 45: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4307  
 Step 46: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3439  
 Step 47: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2562  
 Step 48: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1678  
 Step 49: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0788  
 Step 50: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9893  
 Step 51: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8993  
 Step 52: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8090  
 Step 53: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7183  
 Step 54: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6275  
 Step 55: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5364  
 Step 56: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4453  
 Step 57: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3540  
 Step 58: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2628  
 Step 59: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1715  
 Step 60: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0803  
 Step 61: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9891  
 Step 62: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8980  
 Step 63: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8070  
 Step 64: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7161  
 Step 65: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6254  
 Step 66: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5348  
 Step 67: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4444  
 Step 68: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3543  
 Step 69: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2644  
 Step 70: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1747  
 Step 71: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0854  
 Step 72: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9963  
 Step 73: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.9075  
 Step 74: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8191  
 Step 75: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7311  
 Step 76: Loss: 0.0283, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6434  
 Step 77: Loss: 0.0279, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5561  
 Step 78: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4693  
 Step 79: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3829  
 Step 80: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2971  
 Step 81: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2117  
 Step 82: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1269  
 Step 83: Loss: 0.0254, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0427  
 Step 84: Loss: 0.0250, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9592  
 Step 85: Loss: 0.0246, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8763  
 Step 86: Loss: 0.0243, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7943  
 Step 87: Loss: 0.0239, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7131  
 Step 88: Loss: 0.0235, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6328  
 Step 89: Loss: 0.0232, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.5535  
 Step 90: Loss: 0.0229, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.4753  
 Step 91: Loss: 0.0226, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.3984  
 Step 92: Loss: 0.0223, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.3229  
 Step 93: Loss: 0.0220, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.2489  
 Step 94: Loss: 0.0218, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.1766  
 Step 95: Loss: 0.0216, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.1061  
 Step 96: Loss: 0.0213, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.0378  
 Step 97: Loss: 0.0212, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0013, Distance: 3.9718  
Step 98: Loss: 0.0210, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0015, Distance: 3.9083  
Step 99: Loss: 0.0209, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0016, Distance: 3.8476  
Step 100: Loss: 0.0208, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0018, Distance: 3.7899  
Step 101: Loss: 0.0207, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0020, Distance: 3.7356  
Step 102: Loss: 0.0206, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0022, Distance: 3.6848  
Step 103: Loss: 0.0206, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 3.6379  
Step 104: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 3.5951  
Step 105: Loss: 0.0206, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 3.5567  
Step 106: Loss: 0.0206, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 3.5227  
Step 107: Loss: 0.0206, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0031, Distance: 3.4933  
Step 108: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0032, Distance: 3.4686  
Step 109: Loss: 0.0206, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0033, Distance: 3.4486  
Step 110: Loss: 0.0206, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.4332  
Step 111: Loss: 0.0206, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.4222  
Step 112: Loss: 0.0205, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.4155  
Step 113: Loss: 0.0205, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.4127  
Step 114: Loss: 0.0205, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.4134  
Step 115: Loss: 0.0205, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.4173  
Step 116: Loss: 0.0205, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0033, Distance: 3.4238  
Step 117: Loss: 0.0204, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0032, Distance: 3.4325  
Step 118: Loss: 0.0204, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0032, Distance: 3.4428  
Step 119: Loss: 0.0204, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0031, Distance: 3.4544  
Step 120: Loss: 0.0204, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0030, Distance: 3.4668  
Step 121: Loss: 0.0204, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0029, Distance: 3.4795  
 Step 122: Loss: 0.0203, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.4921  
 Step 123: Loss: 0.0203, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5044  
 Step 124: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5161  
 Step 125: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5269  
 Step 126: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5367  
 Step 127: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5453  
 Step 128: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5526  
 Step 129: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5587  
 Step 130: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5635  
 Step 131: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5670  
 Step 132: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5692  
 Step 133: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5704  
 Step 134: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5704  
 Step 135: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5695  
 Step 136: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5677  
 Step 137: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5652  
 Step 138: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5621  
 Step 139: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5585  
 Step 140: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5546  
 Step 141: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5504  
 Step 142: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5460  
 Step 143: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5416  
 Step 144: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5373  
 Step 145: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,



[illegible]

Aleatoric Entropy: 0.0026, Distance: 3.5211  
 Step 194: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5210  
 Step 195: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5209  
 Step 196: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5208  
 Step 197: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5208  
 Step 198: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5208  
 Step 199: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5209  
 Step 00: Loss: 0.8083, Total Entropy: 0.8083, Epistemic Entropy: 0.0042,  
 Aleatoric Entropy: 0.8041, Distance: 0.0000  
 Step 01: Loss: 0.1706, Total Entropy: 0.1626, Epistemic Entropy: 0.0010,  
 Aleatoric Entropy: 0.1616, Distance: 1.6000  
 Step 02: Loss: 0.0439, Total Entropy: 0.0291, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0289, Distance: 2.9502  
 Step 03: Loss: 0.0270, Total Entropy: 0.0068, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0068, Distance: 4.0433  
 Step 04: Loss: 0.0267, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.9390  
 Step 05: Loss: 0.0292, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.6860  
 Step 06: Loss: 0.0319, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.3176  
 Step 07: Loss: 0.0344, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8566  
 Step 08: Loss: 0.0367, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.3192  
 Step 09: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7178  
 Step 10: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0616  
 Step 11: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3582  
 Step 12: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6136  
 Step 13: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8329  
 Step 14: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0203  
 Step 15: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1794  
 Step 16: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3134  
 Step 17: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.4249  
 Step 18: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5163  
 Step 19: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5897  
 Step 20: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6469  
 Step 21: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6895  
 Step 22: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7189  
 Step 23: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7366  
 Step 24: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7435  
 Step 25: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7408  
 Step 26: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7293  
 Step 27: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7099  
 Step 28: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6834  
 Step 29: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6503  
 Step 30: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6114  
 Step 31: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5672  
 Step 32: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5182  
 Step 33: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4649  
 Step 34: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4076  
 Step 35: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3468  
 Step 36: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2828  
 Step 37: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2160  
 Step 38: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1466  
 Step 39: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0749  
 Step 40: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0012  
 Step 41: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.9256  
 Step 42: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8484  
 Step 43: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7697  
 Step 44: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6898  
 Step 45: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6087  
 Step 46: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5265  
 Step 47: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4435  
 Step 48: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3597  
 Step 49: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2752  
 Step 50: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1901  
 Step 51: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1044  
 Step 52: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0183  
 Step 53: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9318  
 Step 54: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8450  
 Step 55: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7579  
 Step 56: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6706  
 Step 57: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5832  
 Step 58: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4956  
 Step 59: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4079  
 Step 60: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3202  
 Step 61: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2325  
 Step 62: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1448  
 Step 63: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0572  
 Step 64: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9696  
 Step 65: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.8822  
 Step 66: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7948  
 Step 67: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7077  
 Step 68: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6206  
 Step 69: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5338  
 Step 70: Loss: 0.0323, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4472  
 Step 71: Loss: 0.0319, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3608  
 Step 72: Loss: 0.0314, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2746  
 Step 73: Loss: 0.0310, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1887  
 Step 74: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1031  
 Step 75: Loss: 0.0302, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0178  
 Step 76: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9328  
 Step 77: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8481  
 Step 78: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7638  
 Step 79: Loss: 0.0286, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6799  
 Step 80: Loss: 0.0282, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5964  
 Step 81: Loss: 0.0278, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5134  
 Step 82: Loss: 0.0274, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4308  
 Step 83: Loss: 0.0270, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3488  
 Step 84: Loss: 0.0266, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2673  
 Step 85: Loss: 0.0263, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1864  
 Step 86: Loss: 0.0259, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1062  
 Step 87: Loss: 0.0255, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0268  
 Step 88: Loss: 0.0252, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9481  
 Step 89: Loss: 0.0249, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0005, Distance: 4.8703  
 Step 90: Loss: 0.0246, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7935  
 Step 91: Loss: 0.0243, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7178  
 Step 92: Loss: 0.0240, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.6432  
 Step 93: Loss: 0.0237, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.5699  
 Step 94: Loss: 0.0234, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.4980  
 Step 95: Loss: 0.0232, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.4277  
 Step 96: Loss: 0.0230, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.3591  
 Step 97: Loss: 0.0228, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.2924  
 Step 98: Loss: 0.0226, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.2277  
 Step 99: Loss: 0.0224, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.1652  
 Step 100: Loss: 0.0223, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.1052  
 Step 101: Loss: 0.0222, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.0479  
 Step 102: Loss: 0.0221, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.9934  
 Step 103: Loss: 0.0220, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.9419  
 Step 104: Loss: 0.0219, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8937  
 Step 105: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8489  
 Step 106: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8077  
 Step 107: Loss: 0.0218, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7704  
 Step 108: Loss: 0.0218, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7369  
 Step 109: Loss: 0.0218, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7074  
 Step 110: Loss: 0.0218, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6819  
 Step 111: Loss: 0.0218, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6605  
 Step 112: Loss: 0.0218, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6430  
 Step 113: Loss: 0.0218, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0037, Distance: 3.6294  
 Step 114: Loss: 0.0218, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6195  
 Step 115: Loss: 0.0218, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6131  
 Step 116: Loss: 0.0218, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6100  
 Step 117: Loss: 0.0218, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6097  
 Step 118: Loss: 0.0218, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6121  
 Step 119: Loss: 0.0217, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6167  
 Step 120: Loss: 0.0217, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6232  
 Step 121: Loss: 0.0217, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6313  
 Step 122: Loss: 0.0217, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6405  
 Step 123: Loss: 0.0217, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6505  
 Step 124: Loss: 0.0217, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6610  
 Step 125: Loss: 0.0217, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6718  
 Step 126: Loss: 0.0217, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.6824  
 Step 127: Loss: 0.0216, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.6928  
 Step 128: Loss: 0.0216, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7027  
 Step 129: Loss: 0.0216, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7120  
 Step 130: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7205  
 Step 131: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7281  
 Step 132: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7348  
 Step 133: Loss: 0.0216, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7406  
 Step 134: Loss: 0.0216, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7454  
 Step 135: Loss: 0.0216, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7492  
 Step 136: Loss: 0.0216, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7521  
 Step 137: Loss: 0.0216, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0030, Distance: 3.7225  
 Step 186: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7225  
 Step 187: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7225  
 Step 188: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7224  
 Step 189: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7223  
 Step 190: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7222  
 Step 191: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7221  
 Step 192: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7219  
 Step 193: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7217  
 Step 194: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7215  
 Step 195: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7213  
 Step 196: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7212  
 Step 197: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7210  
 Step 198: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7208  
 Step 199: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7207  
 Step 00: Loss: 0.8052, Total Entropy: 0.8052, Epistemic Entropy: 0.0091,  
 Aleatoric Entropy: 0.7961, Distance: 0.0000  
 Step 01: Loss: 0.1463, Total Entropy: 0.1383, Epistemic Entropy: 0.0015,  
 Aleatoric Entropy: 0.1369, Distance: 1.6000  
 Step 02: Loss: 0.0354, Total Entropy: 0.0206, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0204, Distance: 2.9546  
 Step 03: Loss: 0.0244, Total Entropy: 0.0042, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0042, Distance: 4.0327  
 Step 04: Loss: 0.0257, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.9088  
 Step 05: Loss: 0.0286, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6369  
 Step 06: Loss: 0.0314, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2516  
 Step 07: Loss: 0.0340, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7762  
 Step 08: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2269  
 Step 09: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.6159  
 Step 10: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9524  
 Step 11: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2436  
 Step 12: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4954  
 Step 13: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7126  
 Step 14: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8993  
 Step 15: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0589  
 Step 16: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1944  
 Step 17: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3081  
 Step 18: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4024  
 Step 19: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4792  
 Step 20: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5402  
 Step 21: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5868  
 Step 22: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6205  
 Step 23: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6424  
 Step 24: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6537  
 Step 25: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6552  
 Step 26: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6480  
 Step 27: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6327  
 Step 28: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6102  
 Step 29: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5811  
 Step 30: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5460  
 Step 31: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5054  
 Step 32: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4599  
 Step 33: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.4099  
 Step 34: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3558  
 Step 35: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2981  
 Step 36: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2369  
 Step 37: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1728  
 Step 38: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1059  
 Step 39: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0365  
 Step 40: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9648  
 Step 41: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8911  
 Step 42: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8155  
 Step 43: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7382  
 Step 44: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6594  
 Step 45: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5792  
 Step 46: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4977  
 Step 47: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4152  
 Step 48: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3316  
 Step 49: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2470  
 Step 50: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1617  
 Step 51: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0757  
 Step 52: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9891  
 Step 53: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9019  
 Step 54: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8143  
 Step 55: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7262  
 Step 56: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6378  
 Step 57: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.5492  
 Step 58: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4603  
 Step 59: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3712  
 Step 60: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2820  
 Step 61: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1927  
 Step 62: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1033  
 Step 63: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0139  
 Step 64: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9245  
 Step 65: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8351  
 Step 66: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7458  
 Step 67: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6566  
 Step 68: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5674  
 Step 69: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4784  
 Step 70: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3895  
 Step 71: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3008  
 Step 72: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2122  
 Step 73: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1239  
 Step 74: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0358  
 Step 75: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9479  
 Step 76: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8602  
 Step 77: Loss: 0.0289, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7728  
 Step 78: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6857  
 Step 79: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5990  
 Step 80: Loss: 0.0277, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5125  
 Step 81: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.4264  
 Step 82: Loss: 0.0268, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3408  
 Step 83: Loss: 0.0264, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2555  
 Step 84: Loss: 0.0260, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1708  
 Step 85: Loss: 0.0257, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0865  
 Step 86: Loss: 0.0253, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0029  
 Step 87: Loss: 0.0249, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9198  
 Step 88: Loss: 0.0245, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8375  
 Step 89: Loss: 0.0242, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.7559  
 Step 90: Loss: 0.0238, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6752  
 Step 91: Loss: 0.0235, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5955  
 Step 92: Loss: 0.0232, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.5168  
 Step 93: Loss: 0.0228, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.4393  
 Step 94: Loss: 0.0226, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.3631  
 Step 95: Loss: 0.0223, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.2883  
 Step 96: Loss: 0.0220, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.2152  
 Step 97: Loss: 0.0218, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.1439  
 Step 98: Loss: 0.0216, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.0746  
 Step 99: Loss: 0.0214, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.0075  
 Step 100: Loss: 0.0212, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.9428  
 Step 101: Loss: 0.0211, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.8809  
 Step 102: Loss: 0.0210, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.8219  
 Step 103: Loss: 0.0209, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.7662  
 Step 104: Loss: 0.0208, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7139  
 Step 105: Loss: 0.0208, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0024, Distance: 3.6653  
 Step 106: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6207  
 Step 107: Loss: 0.0207, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5803  
 Step 108: Loss: 0.0207, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.5442  
 Step 109: Loss: 0.0207, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.5126  
 Step 110: Loss: 0.0207, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.4855  
 Step 111: Loss: 0.0207, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.4631  
 Step 112: Loss: 0.0207, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4451  
 Step 113: Loss: 0.0207, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4316  
 Step 114: Loss: 0.0207, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4222  
 Step 115: Loss: 0.0207, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4168  
 Step 116: Loss: 0.0207, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4149  
 Step 117: Loss: 0.0206, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4164  
 Step 118: Loss: 0.0206, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4207  
 Step 119: Loss: 0.0206, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.4273  
 Step 120: Loss: 0.0206, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.4360  
 Step 121: Loss: 0.0206, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.4462  
 Step 122: Loss: 0.0205, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.4575  
 Step 123: Loss: 0.0205, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.4694  
 Step 124: Loss: 0.0205, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.4817  
 Step 125: Loss: 0.0205, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.4940  
 Step 126: Loss: 0.0205, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5060  
 Step 127: Loss: 0.0205, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5174  
 Step 128: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5280  
 Step 129: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0028, Distance: 3.5376  
 Step 130: Loss: 0.0205, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5462  
 Step 131: Loss: 0.0205, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5537  
 Step 132: Loss: 0.0205, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5599  
 Step 133: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5649  
 Step 134: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5687  
 Step 135: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5714  
 Step 136: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5729  
 Step 137: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5734  
 Step 138: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5729  
 Step 139: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5716  
 Step 140: Loss: 0.0205, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5696  
 Step 141: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5669  
 Step 142: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5637  
 Step 143: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5601  
 Step 144: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5562  
 Step 145: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5521  
 Step 146: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5480  
 Step 147: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5438  
 Step 148: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5397  
 Step 149: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5357  
 Step 150: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5320  
 Step 151: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5286  
 Step 152: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5254  
 Step 153: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0027, Distance: 3.5292  
 Step 178: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5297  
 Step 179: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5300  
 Step 180: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5302  
 Step 181: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5302  
 Step 182: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5302  
 Step 183: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5301  
 Step 184: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5299  
 Step 185: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5297  
 Step 186: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5293  
 Step 187: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5290  
 Step 188: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5286  
 Step 189: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5282  
 Step 190: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5279  
 Step 191: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5275  
 Step 192: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5271  
 Step 193: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5268  
 Step 194: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5265  
 Step 195: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5262  
 Step 196: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5259  
 Step 197: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5257  
 Step 198: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5256  
 Step 199: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5255  
 Step 00: Loss: 0.7889, Total Entropy: 0.7889, Epistemic Entropy: 0.0106,  
 Aleatoric Entropy: 0.7782, Distance: 0.0000  
 Step 01: Loss: 0.5848, Total Entropy: 0.5768, Epistemic Entropy: 0.0103,

Aleatoric Entropy: 0.5665, Distance: 1.6000  
 Step 02: Loss: 0.1533, Total Entropy: 0.1408, Epistemic Entropy: 0.0027,  
 Aleatoric Entropy: 0.1381, Distance: 2.5064  
 Step 03: Loss: 0.0372, Total Entropy: 0.0192, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0188, Distance: 3.5941  
 Step 04: Loss: 0.0260, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 4.5842  
 Step 05: Loss: 0.0278, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.4377  
 Step 06: Loss: 0.0310, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1706  
 Step 07: Loss: 0.0341, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8023  
 Step 08: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3489  
 Step 09: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8232  
 Step 10: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2353  
 Step 11: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5933  
 Step 12: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9039  
 Step 13: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1727  
 Step 14: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4045  
 Step 15: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6032  
 Step 16: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7722  
 Step 17: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9147  
 Step 18: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0332  
 Step 19: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1301  
 Step 20: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2074  
 Step 21: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2671  
 Step 22: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3106  
 Step 23: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3395  
 Step 24: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3551  
 Step 25: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.3587  
 Step 26: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3512  
 Step 27: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3338  
 Step 28: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3073  
 Step 29: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2725  
 Step 30: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2302  
 Step 31: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1810  
 Step 32: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1256  
 Step 33: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0645  
 Step 34: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9983  
 Step 35: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9275  
 Step 36: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8525  
 Step 37: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7737  
 Step 38: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6915  
 Step 39: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6061  
 Step 40: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5180  
 Step 41: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4274  
 Step 42: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3345  
 Step 43: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2397  
 Step 44: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1430  
 Step 45: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0448  
 Step 46: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9452  
 Step 47: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8443  
 Step 48: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7423  
 Step 49: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.6393  
 Step 50: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5355  
 Step 51: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4311  
 Step 52: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3259  
 Step 53: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2203  
 Step 54: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1143  
 Step 55: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0079  
 Step 56: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9012  
 Step 57: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7942  
 Step 58: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6872  
 Step 59: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5800  
 Step 60: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4727  
 Step 61: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3655  
 Step 62: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2582  
 Step 63: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1511  
 Step 64: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0440  
 Step 65: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9370  
 Step 66: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8302  
 Step 67: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7235  
 Step 68: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6171  
 Step 69: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5109  
 Step 70: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4049  
 Step 71: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2992  
 Step 72: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1939  
 Step 73: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.0888  
 Step 74: Loss: 0.0300, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9841  
 Step 75: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8797  
 Step 76: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7758  
 Step 77: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6722  
 Step 78: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5692  
 Step 79: Loss: 0.0275, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4667  
 Step 80: Loss: 0.0270, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3648  
 Step 81: Loss: 0.0265, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2636  
 Step 82: Loss: 0.0261, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1631  
 Step 83: Loss: 0.0256, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.0634  
 Step 84: Loss: 0.0252, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.9646  
 Step 85: Loss: 0.0248, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.8669  
 Step 86: Loss: 0.0243, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.7704  
 Step 87: Loss: 0.0240, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.6753  
 Step 88: Loss: 0.0236, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.5817  
 Step 89: Loss: 0.0232, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.4898  
 Step 90: Loss: 0.0229, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.4000  
 Step 91: Loss: 0.0226, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.3125  
 Step 92: Loss: 0.0224, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.2277  
 Step 93: Loss: 0.0221, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.1458  
 Step 94: Loss: 0.0219, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.0673  
 Step 95: Loss: 0.0218, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.9927  
 Step 96: Loss: 0.0217, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.9224  
 Step 97: Loss: 0.0216, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0022, Distance: 3.8569  
 Step 98: Loss: 0.0215, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7967  
 Step 99: Loss: 0.0214, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7422  
 Step 100: Loss: 0.0214, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6939  
 Step 101: Loss: 0.0214, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6521  
 Step 102: Loss: 0.0214, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6172  
 Step 103: Loss: 0.0214, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5893  
 Step 104: Loss: 0.0214, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5682  
 Step 105: Loss: 0.0214, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.5540  
 Step 106: Loss: 0.0214, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.5462  
 Step 107: Loss: 0.0213, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.5443  
 Step 108: Loss: 0.0213, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.5477  
 Step 109: Loss: 0.0213, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5557  
 Step 110: Loss: 0.0212, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5673  
 Step 111: Loss: 0.0212, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.5818  
 Step 112: Loss: 0.0212, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.5982  
 Step 113: Loss: 0.0211, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6159  
 Step 114: Loss: 0.0211, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6339  
 Step 115: Loss: 0.0211, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6517  
 Step 116: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6686  
 Step 117: Loss: 0.0211, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6843  
 Step 118: Loss: 0.0211, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6983  
 Step 119: Loss: 0.0211, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7104  
 Step 120: Loss: 0.0211, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7204  
 Step 121: Loss: 0.0211, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0024, Distance: 3.7283  
 Step 122: Loss: 0.0211, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7340  
 Step 123: Loss: 0.0211, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7375  
 Step 124: Loss: 0.0211, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7391  
 Step 125: Loss: 0.0210, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7388  
 Step 126: Loss: 0.0210, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7368  
 Step 127: Loss: 0.0210, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7333  
 Step 128: Loss: 0.0210, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7286  
 Step 129: Loss: 0.0210, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7229  
 Step 130: Loss: 0.0210, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7164  
 Step 131: Loss: 0.0210, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7094  
 Step 132: Loss: 0.0210, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7021  
 Step 133: Loss: 0.0210, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6946  
 Step 134: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6873  
 Step 135: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6803  
 Step 136: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6736  
 Step 137: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6676  
 Step 138: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6622  
 Step 139: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6575  
 Step 140: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6537  
 Step 141: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6506  
 Step 142: Loss: 0.0210, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6484  
 Step 143: Loss: 0.0210, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6470  
 Step 144: Loss: 0.0210, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6464  
 Step 145: Loss: 0.0210, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0026, Distance: 3.6663  
 Step 194: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6665  
 Step 195: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6666  
 Step 196: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6667  
 Step 197: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6667  
 Step 198: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6666  
 Step 199: Loss: 0.0210, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6666  
 Step 00: Loss: 0.7796, Total Entropy: 0.7796, Epistemic Entropy: 0.0269,  
 Aleatoric Entropy: 0.7527, Distance: 0.0000  
 Step 01: Loss: 0.2567, Total Entropy: 0.2487, Epistemic Entropy: 0.0084,  
 Aleatoric Entropy: 0.2402, Distance: 1.6000  
 Step 02: Loss: 0.0487, Total Entropy: 0.0342, Epistemic Entropy: 0.0009,  
 Aleatoric Entropy: 0.0333, Distance: 2.9068  
 Step 03: Loss: 0.0257, Total Entropy: 0.0054, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0053, Distance: 4.0552  
 Step 04: Loss: 0.0262, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 5.0121  
 Step 05: Loss: 0.0294, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8150  
 Step 06: Loss: 0.0326, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4965  
 Step 07: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0797  
 Step 08: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5816  
 Step 09: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0149  
 Step 10: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3895  
 Step 11: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7131  
 Step 12: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9922  
 Step 13: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2319  
 Step 14: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4367  
 Step 15: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6104  
 Step 16: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7562  
 Step 17: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.8770  
 Step 18: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9752  
 Step 19: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0531  
 Step 20: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1125  
 Step 21: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1552  
 Step 22: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1827  
 Step 23: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1964  
 Step 24: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1976  
 Step 25: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1874  
 Step 26: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1669  
 Step 27: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1369  
 Step 28: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0982  
 Step 29: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0517  
 Step 30: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9980  
 Step 31: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9378  
 Step 32: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8716  
 Step 33: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7999  
 Step 34: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7233  
 Step 35: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6421  
 Step 36: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5568  
 Step 37: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4677  
 Step 38: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3751  
 Step 39: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2793  
 Step 40: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1807  
 Step 41: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.0795  
 Step 42: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9759  
 Step 43: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8701  
 Step 44: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7624  
 Step 45: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6529  
 Step 46: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5418  
 Step 47: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4292  
 Step 48: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3153  
 Step 49: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2002  
 Step 50: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0841  
 Step 51: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9671  
 Step 52: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8492  
 Step 53: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7307  
 Step 54: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6114  
 Step 55: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4917  
 Step 56: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3715  
 Step 57: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2510  
 Step 58: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1301  
 Step 59: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0090  
 Step 60: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8878  
 Step 61: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7665  
 Step 62: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6451  
 Step 63: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5238  
 Step 64: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4026  
 Step 65: Loss: 0.0315, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.2816  
 Step 66: Loss: 0.0309, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1608  
 Step 67: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0403  
 Step 68: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9202  
 Step 69: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8006  
 Step 70: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6815  
 Step 71: Loss: 0.0280, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5630  
 Step 72: Loss: 0.0274, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4453  
 Step 73: Loss: 0.0269, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3284  
 Step 74: Loss: 0.0264, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2125  
 Step 75: Loss: 0.0259, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0978  
 Step 76: Loss: 0.0254, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.9844  
 Step 77: Loss: 0.0249, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.8725  
 Step 78: Loss: 0.0245, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7625  
 Step 79: Loss: 0.0241, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.6546  
 Step 80: Loss: 0.0237, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.5490  
 Step 81: Loss: 0.0233, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.4463  
 Step 82: Loss: 0.0230, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.3469  
 Step 83: Loss: 0.0228, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.2512  
 Step 84: Loss: 0.0226, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.1598  
 Step 85: Loss: 0.0225, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.0734  
 Step 86: Loss: 0.0224, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.9926  
 Step 87: Loss: 0.0223, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9182  
 Step 88: Loss: 0.0223, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.8507  
 Step 89: Loss: 0.0223, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0033, Distance: 3.7909  
 Step 90: Loss: 0.0224, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.7394  
 Step 91: Loss: 0.0224, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.6967  
 Step 92: Loss: 0.0224, Total Entropy: 0.0041, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0040, Distance: 3.6631  
 Step 93: Loss: 0.0225, Total Entropy: 0.0043, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0042, Distance: 3.6388  
 Step 94: Loss: 0.0225, Total Entropy: 0.0043, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0043, Distance: 3.6235  
 Step 95: Loss: 0.0224, Total Entropy: 0.0043, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0043, Distance: 3.6170  
 Step 96: Loss: 0.0224, Total Entropy: 0.0043, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0042, Distance: 3.6186  
 Step 97: Loss: 0.0223, Total Entropy: 0.0042, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0041, Distance: 3.6275  
 Step 98: Loss: 0.0222, Total Entropy: 0.0040, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0040, Distance: 3.6425  
 Step 99: Loss: 0.0222, Total Entropy: 0.0039, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0038, Distance: 3.6625  
 Step 100: Loss: 0.0221, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.6863  
 Step 101: Loss: 0.0221, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.7126  
 Step 102: Loss: 0.0220, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.7402  
 Step 103: Loss: 0.0220, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.7681  
 Step 104: Loss: 0.0220, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.7951  
 Step 105: Loss: 0.0220, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8207  
 Step 106: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8440  
 Step 107: Loss: 0.0220, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8645  
 Step 108: Loss: 0.0220, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8821  
 Step 109: Loss: 0.0220, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8964  
 Step 110: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.9073  
 Step 111: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.9148  
 Step 112: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.9192  
 Step 113: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0023, Distance: 3.9204  
 Step 114: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.9189  
 Step 115: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.9148  
 Step 116: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.9085  
 Step 117: Loss: 0.0219, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.9004  
 Step 118: Loss: 0.0219, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.8908  
 Step 119: Loss: 0.0219, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8800  
 Step 120: Loss: 0.0219, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8685  
 Step 121: Loss: 0.0219, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8566  
 Step 122: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8447  
 Step 123: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8330  
 Step 124: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8218  
 Step 125: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8115  
 Step 126: Loss: 0.0219, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8022  
 Step 127: Loss: 0.0219, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7940  
 Step 128: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7871  
 Step 129: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.7816  
 Step 130: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7775  
 Step 131: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7748  
 Step 132: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7735  
 Step 133: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7734  
 Step 134: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7744  
 Step 135: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7764  
 Step 136: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.7792  
 Step 137: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,

[illegible]

[illegible]

Aleatoric Entropy: 0.0028, Distance: 3.8122  
 Step 186: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8122  
 Step 187: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8122  
 Step 188: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8120  
 Step 189: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8118  
 Step 190: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8116  
 Step 191: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8113  
 Step 192: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8111  
 Step 193: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8108  
 Step 194: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8105  
 Step 195: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8103  
 Step 196: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8100  
 Step 197: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8098  
 Step 198: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8096  
 Step 199: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8095  
 Step 00: Loss: 0.7791, Total Entropy: 0.7791, Epistemic Entropy: 0.0080,  
 Aleatoric Entropy: 0.7711, Distance: 0.0000  
 Step 01: Loss: 0.1737, Total Entropy: 0.1657, Epistemic Entropy: 0.0012,  
 Aleatoric Entropy: 0.1645, Distance: 1.6000  
 Step 02: Loss: 0.0463, Total Entropy: 0.0314, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0312, Distance: 2.9828  
 Step 03: Loss: 0.0281, Total Entropy: 0.0077, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0077, Distance: 4.0845  
 Step 04: Loss: 0.0273, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 4.9787  
 Step 05: Loss: 0.0295, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 5.7194  
 Step 06: Loss: 0.0321, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 6.3423  
 Step 07: Loss: 0.0345, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.8716  
 Step 08: Loss: 0.0367, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.3244  
 Step 09: Loss: 0.0386, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 7.7131  
 Step 10: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0474  
 Step 11: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3348  
 Step 12: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5816  
 Step 13: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7926  
 Step 14: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9723  
 Step 15: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1242  
 Step 16: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2515  
 Step 17: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3569  
 Step 18: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4427  
 Step 19: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5110  
 Step 20: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5637  
 Step 21: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6022  
 Step 22: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6279  
 Step 23: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6421  
 Step 24: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6458  
 Step 25: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6401  
 Step 26: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6259  
 Step 27: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6039  
 Step 28: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5749  
 Step 29: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5396  
 Step 30: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4986  
 Step 31: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4525  
 Step 32: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4017  
 Step 33: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3468  
 Step 34: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2882  
 Step 35: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2261  
 Step 36: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1610  
 Step 37: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0932  
 Step 38: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0228  
 Step 39: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9502  
 Step 40: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8756  
 Step 41: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7991  
 Step 42: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7209  
 Step 43: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6413  
 Step 44: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5604  
 Step 45: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4782  
 Step 46: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3950  
 Step 47: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3108  
 Step 48: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2257  
 Step 49: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1399  
 Step 50: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0534  
 Step 51: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9664  
 Step 52: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8788  
 Step 53: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7907  
 Step 54: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7023  
 Step 55: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6135  
 Step 56: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5244  
 Step 57: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.4351  
 Step 58: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3455  
 Step 59: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2558  
 Step 60: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1660  
 Step 61: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0762  
 Step 62: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9863  
 Step 63: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8964  
 Step 64: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8065  
 Step 65: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7167  
 Step 66: Loss: 0.0332, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6271  
 Step 67: Loss: 0.0327, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5376  
 Step 68: Loss: 0.0323, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4483  
 Step 69: Loss: 0.0319, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3591  
 Step 70: Loss: 0.0314, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2703  
 Step 71: Loss: 0.0310, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1817  
 Step 72: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0934  
 Step 73: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0054  
 Step 74: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9178  
 Step 75: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8306  
 Step 76: Loss: 0.0289, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7439  
 Step 77: Loss: 0.0285, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6577  
 Step 78: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5720  
 Step 79: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4869  
 Step 80: Loss: 0.0273, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4024  
 Step 81: Loss: 0.0269, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0003, Distance: 5.3186  
 Step 82: Loss: 0.0265, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2355  
 Step 83: Loss: 0.0261, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1532  
 Step 84: Loss: 0.0258, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0718  
 Step 85: Loss: 0.0254, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9913  
 Step 86: Loss: 0.0251, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9118  
 Step 87: Loss: 0.0248, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8335  
 Step 88: Loss: 0.0245, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7563  
 Step 89: Loss: 0.0242, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.6804  
 Step 90: Loss: 0.0239, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.6060  
 Step 91: Loss: 0.0236, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.5331  
 Step 92: Loss: 0.0234, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.4619  
 Step 93: Loss: 0.0232, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.3925  
 Step 94: Loss: 0.0230, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.3251  
 Step 95: Loss: 0.0228, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.2598  
 Step 96: Loss: 0.0226, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.1969  
 Step 97: Loss: 0.0225, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 4.1365  
 Step 98: Loss: 0.0223, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.0788  
 Step 99: Loss: 0.0222, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.0240  
 Step 100: Loss: 0.0222, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.9723  
 Step 101: Loss: 0.0221, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9239  
 Step 102: Loss: 0.0221, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8788  
 Step 103: Loss: 0.0220, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8374  
 Step 104: Loss: 0.0220, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7996  
 Step 105: Loss: 0.0220, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0031, Distance: 3.7657  
 Step 106: Loss: 0.0220, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7357  
 Step 107: Loss: 0.0220, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.7096  
 Step 108: Loss: 0.0220, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6874  
 Step 109: Loss: 0.0220, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6691  
 Step 110: Loss: 0.0220, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6545  
 Step 111: Loss: 0.0220, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6435  
 Step 112: Loss: 0.0220, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.6359  
 Step 113: Loss: 0.0219, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.6315  
 Step 114: Loss: 0.0219, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.6299  
 Step 115: Loss: 0.0219, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6310  
 Step 116: Loss: 0.0219, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6344  
 Step 117: Loss: 0.0219, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6397  
 Step 118: Loss: 0.0219, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6466  
 Step 119: Loss: 0.0218, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.6548  
 Step 120: Loss: 0.0218, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6640  
 Step 121: Loss: 0.0218, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6738  
 Step 122: Loss: 0.0218, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6840  
 Step 123: Loss: 0.0218, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.6944  
 Step 124: Loss: 0.0218, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7046  
 Step 125: Loss: 0.0218, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.7144  
 Step 126: Loss: 0.0218, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7238  
 Step 127: Loss: 0.0218, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7326  
 Step 128: Loss: 0.0218, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7406  
 Step 129: Loss: 0.0218, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,

[illegible]





Aleatoric Entropy: 0.3009, Distance: 1.6000  
 Step 02: Loss: 0.0561, Total Entropy: 0.0424, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0420, Distance: 2.7249  
 Step 03: Loss: 0.0250, Total Entropy: 0.0061, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0060, Distance: 3.7917  
 Step 04: Loss: 0.0247, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.6954  
 Step 05: Loss: 0.0276, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4572  
 Step 06: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1048  
 Step 07: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6591  
 Step 08: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1361  
 Step 09: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5476  
 Step 10: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9030  
 Step 11: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2098  
 Step 12: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4740  
 Step 13: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7006  
 Step 14: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8940  
 Step 15: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0576  
 Step 16: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1947  
 Step 17: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3078  
 Step 18: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3995  
 Step 19: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4718  
 Step 20: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5265  
 Step 21: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5652  
 Step 22: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5896  
 Step 23: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6008  
 Step 24: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6000  
 Step 25: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.5884  
 Step 26: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5669  
 Step 27: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5364  
 Step 28: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4976  
 Step 29: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4514  
 Step 30: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3982  
 Step 31: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3388  
 Step 32: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2737  
 Step 33: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2034  
 Step 34: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1283  
 Step 35: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0488  
 Step 36: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9654  
 Step 37: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8783  
 Step 38: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7879  
 Step 39: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6945  
 Step 40: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5983  
 Step 41: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4996  
 Step 42: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3987  
 Step 43: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2958  
 Step 44: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1910  
 Step 45: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0845  
 Step 46: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9766  
 Step 47: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8673  
 Step 48: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7569  
 Step 49: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.6455  
 Step 50: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5332  
 Step 51: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4201  
 Step 52: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3064  
 Step 53: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1921  
 Step 54: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0775  
 Step 55: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9624  
 Step 56: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8472  
 Step 57: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7317  
 Step 58: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6162  
 Step 59: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5007  
 Step 60: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3852  
 Step 61: Loss: 0.0314, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2699  
 Step 62: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1547  
 Step 63: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0398  
 Step 64: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9252  
 Step 65: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8110  
 Step 66: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6973  
 Step 67: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5841  
 Step 68: Loss: 0.0275, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4714  
 Step 69: Loss: 0.0270, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3595  
 Step 70: Loss: 0.0265, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2483  
 Step 71: Loss: 0.0260, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.1379  
 Step 72: Loss: 0.0255, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0286  
 Step 73: Loss: 0.0250, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0004, Distance: 4.9204  
 Step 74: Loss: 0.0246, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.8134  
 Step 75: Loss: 0.0241, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7079  
 Step 76: Loss: 0.0237, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.6040  
 Step 77: Loss: 0.0233, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.5020  
 Step 78: Loss: 0.0230, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.4021  
 Step 79: Loss: 0.0226, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.3047  
 Step 80: Loss: 0.0223, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.2102  
 Step 81: Loss: 0.0221, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.1190  
 Step 82: Loss: 0.0219, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.0315  
 Step 83: Loss: 0.0217, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.9483  
 Step 84: Loss: 0.0215, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.8699  
 Step 85: Loss: 0.0214, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7969  
 Step 86: Loss: 0.0213, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.7301  
 Step 87: Loss: 0.0213, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6700  
 Step 88: Loss: 0.0213, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.6171  
 Step 89: Loss: 0.0213, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5720  
 Step 90: Loss: 0.0213, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.5350  
 Step 91: Loss: 0.0213, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.5063  
 Step 92: Loss: 0.0213, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.4860  
 Step 93: Loss: 0.0212, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.4738  
 Step 94: Loss: 0.0212, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.4693  
 Step 95: Loss: 0.0212, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.4717  
 Step 96: Loss: 0.0211, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.4803  
 Step 97: Loss: 0.0211, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0036, Distance: 3.4940  
 Step 98: Loss: 0.0210, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5117  
 Step 99: Loss: 0.0210, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.5324  
 Step 100: Loss: 0.0209, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.5548  
 Step 101: Loss: 0.0209, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.5781  
 Step 102: Loss: 0.0209, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.6012  
 Step 103: Loss: 0.0209, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6233  
 Step 104: Loss: 0.0209, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6438  
 Step 105: Loss: 0.0209, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6622  
 Step 106: Loss: 0.0209, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6780  
 Step 107: Loss: 0.0209, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6910  
 Step 108: Loss: 0.0209, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7010  
 Step 109: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7080  
 Step 110: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7122  
 Step 111: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7135  
 Step 112: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7122  
 Step 113: Loss: 0.0208, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7087  
 Step 114: Loss: 0.0208, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7031  
 Step 115: Loss: 0.0208, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6958  
 Step 116: Loss: 0.0208, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6871  
 Step 117: Loss: 0.0208, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.6774  
 Step 118: Loss: 0.0208, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6671  
 Step 119: Loss: 0.0208, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.6564  
 Step 120: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6457  
 Step 121: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0026, Distance: 3.6353  
 Step 122: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6255  
 Step 123: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6165  
 Step 124: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6084  
 Step 125: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6014  
 Step 126: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5957  
 Step 127: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5912  
 Step 128: Loss: 0.0208, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5881  
 Step 129: Loss: 0.0208, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5862  
 Step 130: Loss: 0.0208, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5855  
 Step 131: Loss: 0.0208, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5859  
 Step 132: Loss: 0.0208, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5873  
 Step 133: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5896  
 Step 134: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5926  
 Step 135: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5961  
 Step 136: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6000  
 Step 137: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6040  
 Step 138: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6082  
 Step 139: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6122  
 Step 140: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6161  
 Step 141: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6196  
 Step 142: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6227  
 Step 143: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6254  
 Step 144: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6276  
 Step 145: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,

[illegible]

[illegible]

Aleatoric Entropy: 0.0027, Distance: 3.6180  
 Step 194: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6179  
 Step 195: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6177  
 Step 196: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6176  
 Step 197: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6176  
 Step 198: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6176  
 Step 199: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6176  
 Step 00: Loss: 0.7755, Total Entropy: 0.7755, Epistemic Entropy: 0.0041,  
 Aleatoric Entropy: 0.7714, Distance: 0.0000  
 Step 01: Loss: 0.7108, Total Entropy: 0.7028, Epistemic Entropy: 0.0035,  
 Aleatoric Entropy: 0.6992, Distance: 1.6000  
 Step 02: Loss: 0.3863, Total Entropy: 0.3737, Epistemic Entropy: 0.0017,  
 Aleatoric Entropy: 0.3720, Distance: 2.5283  
 Step 03: Loss: 0.1008, Total Entropy: 0.0840, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0836, Distance: 3.3753  
 Step 04: Loss: 0.0361, Total Entropy: 0.0145, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0144, Distance: 4.3213  
 Step 05: Loss: 0.0289, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 5.1996  
 Step 06: Loss: 0.0306, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.9746  
 Step 07: Loss: 0.0335, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.6505  
 Step 08: Loss: 0.0363, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.2386  
 Step 09: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7503  
 Step 10: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1953  
 Step 11: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5818  
 Step 12: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9168  
 Step 13: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2063  
 Step 14: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4553  
 Step 15: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6681  
 Step 16: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8487  
 Step 17: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.0002  
 Step 18: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1257  
 Step 19: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2276  
 Step 20: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3084  
 Step 21: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3700  
 Step 22: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4144  
 Step 23: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4430  
 Step 24: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4575  
 Step 25: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4591  
 Step 26: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4491  
 Step 27: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4285  
 Step 28: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3983  
 Step 29: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3595  
 Step 30: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3128  
 Step 31: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2590  
 Step 32: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1987  
 Step 33: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1326  
 Step 34: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0612  
 Step 35: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9849  
 Step 36: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9044  
 Step 37: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8200  
 Step 38: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7320  
 Step 39: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6409  
 Step 40: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5469  
 Step 41: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.4503  
 Step 42: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3515  
 Step 43: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2506  
 Step 44: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1478  
 Step 45: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0434  
 Step 46: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9375  
 Step 47: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8302  
 Step 48: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7219  
 Step 49: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6125  
 Step 50: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5022  
 Step 51: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3910  
 Step 52: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2792  
 Step 53: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1668  
 Step 54: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0539  
 Step 55: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9406  
 Step 56: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8269  
 Step 57: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7130  
 Step 58: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5989  
 Step 59: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4846  
 Step 60: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3703  
 Step 61: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2560  
 Step 62: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1417  
 Step 63: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0276  
 Step 64: Loss: 0.0346, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9137  
 Step 65: Loss: 0.0341, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0001, Distance: 6.8000  
 Step 66: Loss: 0.0335, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6866  
 Step 67: Loss: 0.0330, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5736  
 Step 68: Loss: 0.0324, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4610  
 Step 69: Loss: 0.0319, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3488  
 Step 70: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2372  
 Step 71: Loss: 0.0308, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1262  
 Step 72: Loss: 0.0303, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.0157  
 Step 73: Loss: 0.0297, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.9060  
 Step 74: Loss: 0.0292, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7971  
 Step 75: Loss: 0.0287, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.6889  
 Step 76: Loss: 0.0282, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.5818  
 Step 77: Loss: 0.0278, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.4756  
 Step 78: Loss: 0.0273, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.3705  
 Step 79: Loss: 0.0268, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.2667  
 Step 80: Loss: 0.0264, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.1642  
 Step 81: Loss: 0.0260, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 5.0633  
 Step 82: Loss: 0.0256, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.9640  
 Step 83: Loss: 0.0252, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.8666  
 Step 84: Loss: 0.0249, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.7714  
 Step 85: Loss: 0.0245, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.6785  
 Step 86: Loss: 0.0242, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.5882  
 Step 87: Loss: 0.0240, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.5009  
 Step 88: Loss: 0.0237, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 4.4168  
 Step 89: Loss: 0.0235, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0018, Distance: 4.3365  
 Step 90: Loss: 0.0233, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.2602  
 Step 91: Loss: 0.0232, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.1885  
 Step 92: Loss: 0.0231, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 4.1217  
 Step 93: Loss: 0.0230, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 4.0602  
 Step 94: Loss: 0.0229, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 4.0045  
 Step 95: Loss: 0.0229, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.9550  
 Step 96: Loss: 0.0229, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.9119  
 Step 97: Loss: 0.0229, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8755  
 Step 98: Loss: 0.0229, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.8458  
 Step 99: Loss: 0.0229, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.8228  
 Step 100: Loss: 0.0229, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.8063  
 Step 101: Loss: 0.0229, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.7961  
 Step 102: Loss: 0.0228, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.7918  
 Step 103: Loss: 0.0228, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.7926  
 Step 104: Loss: 0.0228, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.7981  
 Step 105: Loss: 0.0227, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.8074  
 Step 106: Loss: 0.0227, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.8197  
 Step 107: Loss: 0.0227, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.8344  
 Step 108: Loss: 0.0226, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.8505  
 Step 109: Loss: 0.0226, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.8675  
 Step 110: Loss: 0.0226, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.8846  
 Step 111: Loss: 0.0226, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9013  
 Step 112: Loss: 0.0226, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.9171  
 Step 113: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0029, Distance: 3.9316  
 Step 114: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9445  
 Step 115: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9556  
 Step 116: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9647  
 Step 117: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9719  
 Step 118: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9770  
 Step 119: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9802  
 Step 120: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9815  
 Step 121: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9811  
 Step 122: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9791  
 Step 123: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9758  
 Step 124: Loss: 0.0225, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.9713  
 Step 125: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9659  
 Step 126: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9598  
 Step 127: Loss: 0.0225, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9531  
 Step 128: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9462  
 Step 129: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9391  
 Step 130: Loss: 0.0225, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9322  
 Step 131: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.9255  
 Step 132: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9192  
 Step 133: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9134  
 Step 134: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9082  
 Step 135: Loss: 0.0225, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9037  
 Step 136: Loss: 0.0225, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.8999  
 Step 137: Loss: 0.0225, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,



[illegible]

Aleatoric Entropy: 0.0029, Distance: 3.9085  
 Step 186: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9087  
 Step 187: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9089  
 Step 188: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9090  
 Step 189: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9092  
 Step 190: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9094  
 Step 191: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9095  
 Step 192: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9097  
 Step 193: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9098  
 Step 194: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9098  
 Step 195: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9099  
 Step 196: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9099  
 Step 197: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9100  
 Step 198: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9100  
 Step 199: Loss: 0.0225, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9099  
 Step 00: Loss: 0.7693, Total Entropy: 0.7693, Epistemic Entropy: 0.0238,  
 Aleatoric Entropy: 0.7455, Distance: 0.0000  
 Step 01: Loss: 0.3144, Total Entropy: 0.3064, Epistemic Entropy: 0.0072,  
 Aleatoric Entropy: 0.2993, Distance: 1.5998  
 Step 02: Loss: 0.0654, Total Entropy: 0.0516, Epistemic Entropy: 0.0007,  
 Aleatoric Entropy: 0.0508, Distance: 2.7692  
 Step 03: Loss: 0.0280, Total Entropy: 0.0086, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0085, Distance: 3.8723  
 Step 04: Loss: 0.0259, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.8094  
 Step 05: Loss: 0.0285, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.5998  
 Step 06: Loss: 0.0315, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.2710  
 Step 07: Loss: 0.0343, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8447  
 Step 08: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3375  
 Step 09: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.7616  
 Step 10: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1269  
 Step 11: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4412  
 Step 12: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7107  
 Step 13: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9409  
 Step 14: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1360  
 Step 15: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3000  
 Step 16: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4360  
 Step 17: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5471  
 Step 18: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6356  
 Step 19: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7038  
 Step 20: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7537  
 Step 21: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7870  
 Step 22: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8053  
 Step 23: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8101  
 Step 24: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8025  
 Step 25: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7839  
 Step 26: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7551  
 Step 27: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7171  
 Step 28: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6709  
 Step 29: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6172  
 Step 30: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5566  
 Step 31: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4899  
 Step 32: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4177  
 Step 33: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3403  
 Step 34: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2584  
 Step 35: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1724  
 Step 36: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0827  
 Step 37: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9897  
 Step 38: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8936  
 Step 39: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7948  
 Step 40: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6935  
 Step 41: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5901  
 Step 42: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4847  
 Step 43: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3776  
 Step 44: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2690  
 Step 45: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1590  
 Step 46: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0478  
 Step 47: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9355  
 Step 48: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8224  
 Step 49: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7085  
 Step 50: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5939  
 Step 51: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4788  
 Step 52: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3632  
 Step 53: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2474  
 Step 54: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1313  
 Step 55: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0150  
 Step 56: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8987  
 Step 57: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 6.7824  
 Step 58: Loss: 0.0334, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6663  
 Step 59: Loss: 0.0328, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5502  
 Step 60: Loss: 0.0322, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4345  
 Step 61: Loss: 0.0317, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3190  
 Step 62: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2039  
 Step 63: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0893  
 Step 64: Loss: 0.0300, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9752  
 Step 65: Loss: 0.0295, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.8616  
 Step 66: Loss: 0.0289, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7488  
 Step 67: Loss: 0.0284, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6367  
 Step 68: Loss: 0.0279, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.5254  
 Step 69: Loss: 0.0274, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4151  
 Step 70: Loss: 0.0269, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.3059  
 Step 71: Loss: 0.0264, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1978  
 Step 72: Loss: 0.0259, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.0910  
 Step 73: Loss: 0.0255, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.9856  
 Step 74: Loss: 0.0251, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.8819  
 Step 75: Loss: 0.0247, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.7800  
 Step 76: Loss: 0.0243, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.6802  
 Step 77: Loss: 0.0239, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.5827  
 Step 78: Loss: 0.0236, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.4878  
 Step 79: Loss: 0.0233, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.3959  
 Step 80: Loss: 0.0231, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.3074  
 Step 81: Loss: 0.0229, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0018, Distance: 4.2226  
 Step 82: Loss: 0.0227, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 4.1420  
 Step 83: Loss: 0.0226, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 4.0661  
 Step 84: Loss: 0.0225, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.9955  
 Step 85: Loss: 0.0224, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.9306  
 Step 86: Loss: 0.0224, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.8719  
 Step 87: Loss: 0.0223, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.8199  
 Step 88: Loss: 0.0223, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.7750  
 Step 89: Loss: 0.0223, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.7375  
 Step 90: Loss: 0.0224, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.7076  
 Step 91: Loss: 0.0224, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.6852  
 Step 92: Loss: 0.0223, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.6702  
 Step 93: Loss: 0.0223, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.6623  
 Step 94: Loss: 0.0223, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.6609  
 Step 95: Loss: 0.0222, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.6653  
 Step 96: Loss: 0.0222, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.6748  
 Step 97: Loss: 0.0221, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6885  
 Step 98: Loss: 0.0221, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.7055  
 Step 99: Loss: 0.0221, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.7247  
 Step 100: Loss: 0.0220, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7453  
 Step 101: Loss: 0.0220, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.7664  
 Step 102: Loss: 0.0220, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7873  
 Step 103: Loss: 0.0220, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8072  
 Step 104: Loss: 0.0220, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8257  
 Step 105: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0027, Distance: 3.8423  
 Step 106: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8566  
 Step 107: Loss: 0.0219, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8685  
 Step 108: Loss: 0.0220, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8778  
 Step 109: Loss: 0.0220, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8846  
 Step 110: Loss: 0.0220, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8888  
 Step 111: Loss: 0.0220, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8906  
 Step 112: Loss: 0.0219, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8902  
 Step 113: Loss: 0.0219, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8877  
 Step 114: Loss: 0.0219, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8835  
 Step 115: Loss: 0.0219, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8777  
 Step 116: Loss: 0.0219, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8707  
 Step 117: Loss: 0.0219, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8627  
 Step 118: Loss: 0.0219, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8541  
 Step 119: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8451  
 Step 120: Loss: 0.0219, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8360  
 Step 121: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.8271  
 Step 122: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8185  
 Step 123: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8105  
 Step 124: Loss: 0.0219, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.8031  
 Step 125: Loss: 0.0219, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7967  
 Step 126: Loss: 0.0219, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7912  
 Step 127: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7867  
 Step 128: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7832  
 Step 129: Loss: 0.0219, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,





[illegible]

Aleatoric Entropy: 0.1270, Distance: 1.6000  
 Step 02: Loss: 0.0332, Total Entropy: 0.0184, Epistemic Entropy: 0.0013,  
 Aleatoric Entropy: 0.0171, Distance: 2.9550  
 Step 03: Loss: 0.0235, Total Entropy: 0.0033, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0031, Distance: 4.0427  
 Step 04: Loss: 0.0254, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.9282  
 Step 05: Loss: 0.0286, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6644  
 Step 06: Loss: 0.0315, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2858  
 Step 07: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8156  
 Step 08: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2702  
 Step 09: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6617  
 Step 10: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9993  
 Step 11: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2905  
 Step 12: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5412  
 Step 13: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7562  
 Step 14: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9398  
 Step 15: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0954  
 Step 16: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2260  
 Step 17: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3343  
 Step 18: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4226  
 Step 19: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4929  
 Step 20: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5469  
 Step 21: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5863  
 Step 22: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6124  
 Step 23: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6266  
 Step 24: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6299  
 Step 25: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.6234  
 Step 26: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6080  
 Step 27: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5846  
 Step 28: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5539  
 Step 29: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5166  
 Step 30: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4733  
 Step 31: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4246  
 Step 32: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3710  
 Step 33: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3129  
 Step 34: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2508  
 Step 35: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1851  
 Step 36: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1161  
 Step 37: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0442  
 Step 38: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9696  
 Step 39: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8926  
 Step 40: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8134  
 Step 41: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7323  
 Step 42: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6495  
 Step 43: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5651  
 Step 44: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4794  
 Step 45: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3924  
 Step 46: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3043  
 Step 47: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2153  
 Step 48: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1254  
 Step 49: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.0347  
 Step 50: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9435  
 Step 51: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8517  
 Step 52: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7594  
 Step 53: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6667  
 Step 54: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5736  
 Step 55: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4803  
 Step 56: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3868  
 Step 57: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2931  
 Step 58: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1993  
 Step 59: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1054  
 Step 60: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0114  
 Step 61: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9175  
 Step 62: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8236  
 Step 63: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7297  
 Step 64: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6360  
 Step 65: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5423  
 Step 66: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4488  
 Step 67: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3555  
 Step 68: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2624  
 Step 69: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1694  
 Step 70: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0767  
 Step 71: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9843  
 Step 72: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8921  
 Step 73: Loss: 0.0290, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.8002  
 Step 74: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7087  
 Step 75: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6174  
 Step 76: Loss: 0.0277, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5266  
 Step 77: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4361  
 Step 78: Loss: 0.0268, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3460  
 Step 79: Loss: 0.0264, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2564  
 Step 80: Loss: 0.0260, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1672  
 Step 81: Loss: 0.0255, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0786  
 Step 82: Loss: 0.0251, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9905  
 Step 83: Loss: 0.0247, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9030  
 Step 84: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8162  
 Step 85: Loss: 0.0239, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7301  
 Step 86: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6449  
 Step 87: Loss: 0.0232, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5605  
 Step 88: Loss: 0.0228, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.4772  
 Step 89: Loss: 0.0225, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.3950  
 Step 90: Loss: 0.0221, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.3141  
 Step 91: Loss: 0.0218, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.2347  
 Step 92: Loss: 0.0216, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.1568  
 Step 93: Loss: 0.0213, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.0808  
 Step 94: Loss: 0.0211, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 4.0069  
 Step 95: Loss: 0.0208, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.9353  
 Step 96: Loss: 0.0207, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.8662  
 Step 97: Loss: 0.0205, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0014, Distance: 3.8000  
 Step 98: Loss: 0.0204, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.7370  
 Step 99: Loss: 0.0203, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.6775  
 Step 100: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6219  
 Step 101: Loss: 0.0201, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5703  
 Step 102: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5233  
 Step 103: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4810  
 Step 104: Loss: 0.0201, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.4436  
 Step 105: Loss: 0.0201, Total Entropy: 0.0030, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0028, Distance: 3.4114  
 Step 106: Loss: 0.0201, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.3844  
 Step 107: Loss: 0.0201, Total Entropy: 0.0033, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0031, Distance: 3.3627  
 Step 108: Loss: 0.0201, Total Entropy: 0.0033, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.3462  
 Step 109: Loss: 0.0201, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.3346  
 Step 110: Loss: 0.0200, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.3278  
 Step 111: Loss: 0.0200, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.3254  
 Step 112: Loss: 0.0200, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.3269  
 Step 113: Loss: 0.0200, Total Entropy: 0.0033, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0031, Distance: 3.3319  
 Step 114: Loss: 0.0199, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0031, Distance: 3.3397  
 Step 115: Loss: 0.0199, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.3498  
 Step 116: Loss: 0.0199, Total Entropy: 0.0031, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0029, Distance: 3.3617  
 Step 117: Loss: 0.0199, Total Entropy: 0.0030, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0028, Distance: 3.3747  
 Step 118: Loss: 0.0198, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0028, Distance: 3.3883  
 Step 119: Loss: 0.0198, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4021  
 Step 120: Loss: 0.0198, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4156  
 Step 121: Loss: 0.0198, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0025, Distance: 3.4284  
 Step 122: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4403  
 Step 123: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4511  
 Step 124: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4606  
 Step 125: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4686  
 Step 126: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4752  
 Step 127: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4803  
 Step 128: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4840  
 Step 129: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4862  
 Step 130: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4872  
 Step 131: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4870  
 Step 132: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4857  
 Step 133: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4834  
 Step 134: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4804  
 Step 135: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4766  
 Step 136: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4724  
 Step 137: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4679  
 Step 138: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4631  
 Step 139: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4582  
 Step 140: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4533  
 Step 141: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4486  
 Step 142: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4441  
 Step 143: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4400  
 Step 144: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4362  
 Step 145: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0025, Distance: 3.4338  
 Step 194: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4339  
 Step 195: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4340  
 Step 196: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4342  
 Step 197: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4343  
 Step 198: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4345  
 Step 199: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4347  
 Step 00: Loss: 0.7565, Total Entropy: 0.7565, Epistemic Entropy: 0.0059,  
 Aleatoric Entropy: 0.7506, Distance: 0.0000  
 Step 01: Loss: 0.1503, Total Entropy: 0.1423, Epistemic Entropy: 0.0008,  
 Aleatoric Entropy: 0.1415, Distance: 1.6000  
 Step 02: Loss: 0.0385, Total Entropy: 0.0240, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0239, Distance: 2.8991  
 Step 03: Loss: 0.0251, Total Entropy: 0.0053, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0053, Distance: 3.9528  
 Step 04: Loss: 0.0256, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.8158  
 Step 05: Loss: 0.0282, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.5352  
 Step 06: Loss: 0.0309, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.1429  
 Step 07: Loss: 0.0334, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6613  
 Step 08: Loss: 0.0356, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.1061  
 Step 09: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4891  
 Step 10: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8196  
 Step 11: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1048  
 Step 12: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3506  
 Step 13: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5618  
 Step 14: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7426  
 Step 15: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8963  
 Step 16: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0261  
 Step 17: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.1345  
 Step 18: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2236  
 Step 19: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2956  
 Step 20: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3520  
 Step 21: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3946  
 Step 22: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4245  
 Step 23: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4431  
 Step 24: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4514  
 Step 25: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4504  
 Step 26: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4410  
 Step 27: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4240  
 Step 28: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4001  
 Step 29: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3700  
 Step 30: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3341  
 Step 31: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2931  
 Step 32: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2475  
 Step 33: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1975  
 Step 34: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1438  
 Step 35: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0864  
 Step 36: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0259  
 Step 37: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9625  
 Step 38: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8964  
 Step 39: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8279  
 Step 40: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7572  
 Step 41: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.6845  
 Step 42: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6100  
 Step 43: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5338  
 Step 44: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4561  
 Step 45: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3770  
 Step 46: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2967  
 Step 47: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2154  
 Step 48: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1331  
 Step 49: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0499  
 Step 50: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9659  
 Step 51: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8813  
 Step 52: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7961  
 Step 53: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7103  
 Step 54: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6242  
 Step 55: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5377  
 Step 56: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4509  
 Step 57: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3638  
 Step 58: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2766  
 Step 59: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1892  
 Step 60: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1017  
 Step 61: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0141  
 Step 62: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9265  
 Step 63: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8389  
 Step 64: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7512  
 Step 65: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.6637  
 Step 66: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5761  
 Step 67: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4887  
 Step 68: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4013  
 Step 69: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3141  
 Step 70: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2269  
 Step 71: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1400  
 Step 72: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0532  
 Step 73: Loss: 0.0299, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9666  
 Step 74: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8802  
 Step 75: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7940  
 Step 76: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7081  
 Step 77: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6225  
 Step 78: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5372  
 Step 79: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4523  
 Step 80: Loss: 0.0270, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3677  
 Step 81: Loss: 0.0266, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2836  
 Step 82: Loss: 0.0262, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1999  
 Step 83: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1167  
 Step 84: Loss: 0.0254, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.0341  
 Step 85: Loss: 0.0251, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9521  
 Step 86: Loss: 0.0247, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.8708  
 Step 87: Loss: 0.0244, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.7903  
 Step 88: Loss: 0.0240, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.7106  
 Step 89: Loss: 0.0237, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0005, Distance: 4.6318  
 Step 90: Loss: 0.0234, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.5541  
 Step 91: Loss: 0.0231, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.4776  
 Step 92: Loss: 0.0228, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.4023  
 Step 93: Loss: 0.0225, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.3285  
 Step 94: Loss: 0.0223, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.2562  
 Step 95: Loss: 0.0220, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.1857  
 Step 96: Loss: 0.0218, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.1172  
 Step 97: Loss: 0.0217, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.0508  
 Step 98: Loss: 0.0215, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.9868  
 Step 99: Loss: 0.0214, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.9254  
 Step 100: Loss: 0.0212, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.8668  
 Step 101: Loss: 0.0211, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.8113  
 Step 102: Loss: 0.0211, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.7590  
 Step 103: Loss: 0.0210, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.7103  
 Step 104: Loss: 0.0210, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6653  
 Step 105: Loss: 0.0210, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6243  
 Step 106: Loss: 0.0209, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.5874  
 Step 107: Loss: 0.0209, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.5547  
 Step 108: Loss: 0.0209, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.5264  
 Step 109: Loss: 0.0209, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.5024  
 Step 110: Loss: 0.0209, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4827  
 Step 111: Loss: 0.0209, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4673  
 Step 112: Loss: 0.0209, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4561  
 Step 113: Loss: 0.0209, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0037, Distance: 3.4487  
 Step 114: Loss: 0.0209, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.4450  
 Step 115: Loss: 0.0209, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.4447  
 Step 116: Loss: 0.0209, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4473  
 Step 117: Loss: 0.0209, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.4526  
 Step 118: Loss: 0.0208, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4600  
 Step 119: Loss: 0.0208, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.4692  
 Step 120: Loss: 0.0208, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.4798  
 Step 121: Loss: 0.0208, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.4913  
 Step 122: Loss: 0.0208, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.5034  
 Step 123: Loss: 0.0208, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.5157  
 Step 124: Loss: 0.0208, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.5280  
 Step 125: Loss: 0.0207, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.5399  
 Step 126: Loss: 0.0207, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.5512  
 Step 127: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5617  
 Step 128: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5713  
 Step 129: Loss: 0.0207, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5798  
 Step 130: Loss: 0.0207, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5873  
 Step 131: Loss: 0.0207, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5935  
 Step 132: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5986  
 Step 133: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6025  
 Step 134: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6053  
 Step 135: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6071  
 Step 136: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6078  
 Step 137: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,

[illegible]



Aleatoric Entropy: 0.0028, Distance: 3.5670  
 Step 186: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5667  
 Step 187: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5665  
 Step 188: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5662  
 Step 189: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5658  
 Step 190: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5655  
 Step 191: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5652  
 Step 192: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5649  
 Step 193: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5646  
 Step 194: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5643  
 Step 195: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5641  
 Step 196: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5639  
 Step 197: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5637  
 Step 198: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5635  
 Step 199: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.5634  
 Step 00: Loss: 0.7537, Total Entropy: 0.7537, Epistemic Entropy: 0.0645,  
 Aleatoric Entropy: 0.6892, Distance: 0.0000  
 Step 01: Loss: 0.1348, Total Entropy: 0.1268, Epistemic Entropy: 0.0064,  
 Aleatoric Entropy: 0.1204, Distance: 1.6000  
 Step 02: Loss: 0.0313, Total Entropy: 0.0163, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0159, Distance: 3.0011  
 Step 03: Loss: 0.0242, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 4.1084  
 Step 04: Loss: 0.0262, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 5.0042  
 Step 05: Loss: 0.0292, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.7467  
 Step 06: Loss: 0.0321, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.3721  
 Step 07: Loss: 0.0346, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.9042  
 Step 08: Loss: 0.0369, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.3598  
 Step 09: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.7512  
 Step 10: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0879  
 Step 11: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3773  
 Step 12: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6254  
 Step 13: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8374  
 Step 14: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0172  
 Step 15: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1685  
 Step 16: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2944  
 Step 17: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3976  
 Step 18: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4803  
 Step 19: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5447  
 Step 20: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5926  
 Step 21: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6256  
 Step 22: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6452  
 Step 23: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6526  
 Step 24: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6491  
 Step 25: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6356  
 Step 26: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6131  
 Step 27: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5825  
 Step 28: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5444  
 Step 29: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4997  
 Step 30: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4488  
 Step 31: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3923  
 Step 32: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3308  
 Step 33: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.2648  
 Step 34: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1945  
 Step 35: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1205  
 Step 36: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0430  
 Step 37: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9623  
 Step 38: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8789  
 Step 39: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7928  
 Step 40: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7044  
 Step 41: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6138  
 Step 42: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5213  
 Step 43: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4271  
 Step 44: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3313  
 Step 45: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2340  
 Step 46: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1354  
 Step 47: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0357  
 Step 48: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9349  
 Step 49: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8333  
 Step 50: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7308  
 Step 51: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6277  
 Step 52: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5240  
 Step 53: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4198  
 Step 54: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3151  
 Step 55: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2102  
 Step 56: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1049  
 Step 57: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.9995  
 Step 58: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8939  
 Step 59: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7882  
 Step 60: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6825  
 Step 61: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5768  
 Step 62: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4712  
 Step 63: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3657  
 Step 64: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2603  
 Step 65: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1551  
 Step 66: Loss: 0.0303, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0501  
 Step 67: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9453  
 Step 68: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8409  
 Step 69: Loss: 0.0288, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7368  
 Step 70: Loss: 0.0283, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6331  
 Step 71: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5297  
 Step 72: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4269  
 Step 73: Loss: 0.0268, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3245  
 Step 74: Loss: 0.0263, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2228  
 Step 75: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1216  
 Step 76: Loss: 0.0253, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0212  
 Step 77: Loss: 0.0249, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9215  
 Step 78: Loss: 0.0244, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8227  
 Step 79: Loss: 0.0240, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7249  
 Step 80: Loss: 0.0235, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6281  
 Step 81: Loss: 0.0231, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0005, Distance: 4.5326  
 Step 82: Loss: 0.0227, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.4384  
 Step 83: Loss: 0.0224, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.3457  
 Step 84: Loss: 0.0220, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.2547  
 Step 85: Loss: 0.0217, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.1657  
 Step 86: Loss: 0.0214, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.0787  
 Step 87: Loss: 0.0211, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.9942  
 Step 88: Loss: 0.0208, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.9124  
 Step 89: Loss: 0.0206, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.8336  
 Step 90: Loss: 0.0204, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.7583  
 Step 91: Loss: 0.0203, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.6866  
 Step 92: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.6192  
 Step 93: Loss: 0.0201, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5564  
 Step 94: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4986  
 Step 95: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.4463  
 Step 96: Loss: 0.0201, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.3998  
 Step 97: Loss: 0.0201, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3595  
 Step 98: Loss: 0.0201, Total Entropy: 0.0035, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.3256  
 Step 99: Loss: 0.0201, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.2983  
 Step 100: Loss: 0.0201, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.2777  
 Step 101: Loss: 0.0201, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.2636  
 Step 102: Loss: 0.0201, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.2557  
 Step 103: Loss: 0.0201, Total Entropy: 0.0038, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0037, Distance: 3.2537  
 Step 104: Loss: 0.0200, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0036, Distance: 3.2568  
 Step 105: Loss: 0.0200, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0036, Distance: 3.2645  
 Step 106: Loss: 0.0199, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.2759  
 Step 107: Loss: 0.0199, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.2903  
 Step 108: Loss: 0.0199, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3067  
 Step 109: Loss: 0.0198, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.3245  
 Step 110: Loss: 0.0198, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.3428  
 Step 111: Loss: 0.0198, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.3610  
 Step 112: Loss: 0.0198, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3786  
 Step 113: Loss: 0.0198, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3952  
 Step 114: Loss: 0.0198, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4103  
 Step 115: Loss: 0.0197, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4237  
 Step 116: Loss: 0.0197, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4352  
 Step 117: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4447  
 Step 118: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4521  
 Step 119: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4575  
 Step 120: Loss: 0.0197, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4609  
 Step 121: Loss: 0.0197, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4625  
 Step 122: Loss: 0.0197, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4623  
 Step 123: Loss: 0.0197, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4605  
 Step 124: Loss: 0.0197, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4574  
 Step 125: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4531  
 Step 126: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4478  
 Step 127: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4418  
 Step 128: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4353  
 Step 129: Loss: 0.0197, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0025, Distance: 3.4284  
 Step 130: Loss: 0.0197, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4215  
 Step 131: Loss: 0.0197, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4146  
 Step 132: Loss: 0.0197, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4079  
 Step 133: Loss: 0.0197, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4015  
 Step 134: Loss: 0.0197, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3956  
 Step 135: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3903  
 Step 136: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3857  
 Step 137: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3817  
 Step 138: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3784  
 Step 139: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3759  
 Step 140: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3741  
 Step 141: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3730  
 Step 142: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3726  
 Step 143: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3728  
 Step 144: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3735  
 Step 145: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3746  
 Step 146: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3762  
 Step 147: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3780  
 Step 148: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3800  
 Step 149: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3822  
 Step 150: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3844  
 Step 151: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3866  
 Step 152: Loss: 0.0197, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3887  
 Step 153: Loss: 0.0197, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,



[illegible]

Aleatoric Entropy: 0.1337, Distance: 1.6000  
 Step 02: Loss: 0.0325, Total Entropy: 0.0177, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0176, Distance: 2.9527  
 Step 03: Loss: 0.0235, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 4.0447  
 Step 04: Loss: 0.0255, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.9348  
 Step 05: Loss: 0.0287, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.6753  
 Step 06: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3007  
 Step 07: Loss: 0.0342, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8341  
 Step 08: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2919  
 Step 09: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6862  
 Step 10: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0264  
 Step 11: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3199  
 Step 12: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5726  
 Step 13: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7894  
 Step 14: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9746  
 Step 15: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1315  
 Step 16: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2632  
 Step 17: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3723  
 Step 18: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4611  
 Step 19: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5317  
 Step 20: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5858  
 Step 21: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6250  
 Step 22: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6507  
 Step 23: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6642  
 Step 24: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6666  
 Step 25: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.6590  
 Step 26: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6423  
 Step 27: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6174  
 Step 28: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5850  
 Step 29: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5458  
 Step 30: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5004  
 Step 31: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4495  
 Step 32: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3936  
 Step 33: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3330  
 Step 34: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2684  
 Step 35: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2000  
 Step 36: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1282  
 Step 37: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0533  
 Step 38: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9757  
 Step 39: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8956  
 Step 40: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8133  
 Step 41: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7289  
 Step 42: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6427  
 Step 43: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5548  
 Step 44: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4654  
 Step 45: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3747  
 Step 46: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2828  
 Step 47: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1898  
 Step 48: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0959  
 Step 49: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0011  
 Step 50: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9055  
 Step 51: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8093  
 Step 52: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7125  
 Step 53: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6152  
 Step 54: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5175  
 Step 55: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4194  
 Step 56: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3210  
 Step 57: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2223  
 Step 58: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1234  
 Step 59: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0243  
 Step 60: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9251  
 Step 61: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8257  
 Step 62: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7263  
 Step 63: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6269  
 Step 64: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5274  
 Step 65: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4280  
 Step 66: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3287  
 Step 67: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2294  
 Step 68: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1302  
 Step 69: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0312  
 Step 70: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9323  
 Step 71: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8336  
 Step 72: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7352  
 Step 73: Loss: 0.0283, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.6370  
 Step 74: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5390  
 Step 75: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4414  
 Step 76: Loss: 0.0268, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3442  
 Step 77: Loss: 0.0264, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2474  
 Step 78: Loss: 0.0259, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1510  
 Step 79: Loss: 0.0255, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0552  
 Step 80: Loss: 0.0250, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9599  
 Step 81: Loss: 0.0246, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8654  
 Step 82: Loss: 0.0242, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7716  
 Step 83: Loss: 0.0238, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6787  
 Step 84: Loss: 0.0234, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.5868  
 Step 85: Loss: 0.0230, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.4960  
 Step 86: Loss: 0.0226, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.4065  
 Step 87: Loss: 0.0223, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.3186  
 Step 88: Loss: 0.0220, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.2322  
 Step 89: Loss: 0.0217, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.1478  
 Step 90: Loss: 0.0214, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.0656  
 Step 91: Loss: 0.0212, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.9858  
 Step 92: Loss: 0.0210, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.9089  
 Step 93: Loss: 0.0208, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.8350  
 Step 94: Loss: 0.0207, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.7647  
 Step 95: Loss: 0.0206, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.6982  
 Step 96: Loss: 0.0205, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6361  
 Step 97: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 3.5787  
 Step 98: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.5264  
 Step 99: Loss: 0.0204, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.4796  
 Step 100: Loss: 0.0204, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.4386  
 Step 101: Loss: 0.0204, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.4037  
 Step 102: Loss: 0.0204, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.3750  
 Step 103: Loss: 0.0204, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.3526  
 Step 104: Loss: 0.0204, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.3364  
 Step 105: Loss: 0.0204, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.3261  
 Step 106: Loss: 0.0204, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.3215  
 Step 107: Loss: 0.0204, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.3221  
 Step 108: Loss: 0.0203, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.3273  
 Step 109: Loss: 0.0203, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.3365  
 Step 110: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.3489  
 Step 111: Loss: 0.0202, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.3638  
 Step 112: Loss: 0.0202, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.3805  
 Step 113: Loss: 0.0202, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.3983  
 Step 114: Loss: 0.0202, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.4165  
 Step 115: Loss: 0.0201, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.4345  
 Step 116: Loss: 0.0201, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.4519  
 Step 117: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.4683  
 Step 118: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4832  
 Step 119: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.4965  
 Step 120: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5079  
 Step 121: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 3.5174  
 Step 122: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5249  
 Step 123: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5305  
 Step 124: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5341  
 Step 125: Loss: 0.0201, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5360  
 Step 126: Loss: 0.0201, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5362  
 Step 127: Loss: 0.0201, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5349  
 Step 128: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5322  
 Step 129: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5284  
 Step 130: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5236  
 Step 131: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5180  
 Step 132: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5119  
 Step 133: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5054  
 Step 134: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.4987  
 Step 135: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.4920  
 Step 136: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.4855  
 Step 137: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4791  
 Step 138: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4732  
 Step 139: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4678  
 Step 140: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4629  
 Step 141: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.4587  
 Step 142: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.4552  
 Step 143: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.4523  
 Step 144: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.4502  
 Step 145: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0027, Distance: 3.4672  
 Step 194: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4674  
 Step 195: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4677  
 Step 196: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4679  
 Step 197: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4681  
 Step 198: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4683  
 Step 199: Loss: 0.0201, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4685  
 Step 00: Loss: 0.7459, Total Entropy: 0.7459, Epistemic Entropy: 0.0083,  
 Aleatoric Entropy: 0.7376, Distance: 0.0000  
 Step 01: Loss: 0.2575, Total Entropy: 0.2495, Epistemic Entropy: 0.0025,  
 Aleatoric Entropy: 0.2470, Distance: 1.6000  
 Step 02: Loss: 0.0490, Total Entropy: 0.0345, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0342, Distance: 2.9118  
 Step 03: Loss: 0.0256, Total Entropy: 0.0052, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0052, Distance: 4.0814  
 Step 04: Loss: 0.0263, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 5.0524  
 Step 05: Loss: 0.0296, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.8621  
 Step 06: Loss: 0.0328, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5442  
 Step 07: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1231  
 Step 08: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6167  
 Step 09: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0385  
 Step 10: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3989  
 Step 11: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7061  
 Step 12: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9668  
 Step 13: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1867  
 Step 14: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3703  
 Step 15: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5218  
 Step 16: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6445  
 Step 17: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.7414  
 Step 18: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8152  
 Step 19: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8682  
 Step 20: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9024  
 Step 21: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9197  
 Step 22: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9217  
 Step 23: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9099  
 Step 24: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8856  
 Step 25: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8500  
 Step 26: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8042  
 Step 27: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7491  
 Step 28: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6857  
 Step 29: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6147  
 Step 30: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5369  
 Step 31: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4529  
 Step 32: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3634  
 Step 33: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2689  
 Step 34: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1699  
 Step 35: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0669  
 Step 36: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9602  
 Step 37: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8504  
 Step 38: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7377  
 Step 39: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6224  
 Step 40: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5050  
 Step 41: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.3856  
 Step 42: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2645  
 Step 43: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1420  
 Step 44: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0182  
 Step 45: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8933  
 Step 46: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7676  
 Step 47: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6412  
 Step 48: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5142  
 Step 49: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3868  
 Step 50: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2592  
 Step 51: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1313  
 Step 52: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0034  
 Step 53: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8755  
 Step 54: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7477  
 Step 55: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6200  
 Step 56: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4927  
 Step 57: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3657  
 Step 58: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2391  
 Step 59: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1131  
 Step 60: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9875  
 Step 61: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8626  
 Step 62: Loss: 0.0288, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7384  
 Step 63: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6150  
 Step 64: Loss: 0.0276, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4925  
 Step 65: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.3709  
 Step 66: Loss: 0.0264, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2504  
 Step 67: Loss: 0.0259, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1310  
 Step 68: Loss: 0.0253, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.0130  
 Step 69: Loss: 0.0248, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8964  
 Step 70: Loss: 0.0243, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.7814  
 Step 71: Loss: 0.0238, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.6683  
 Step 72: Loss: 0.0234, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.5573  
 Step 73: Loss: 0.0230, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.4487  
 Step 74: Loss: 0.0226, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.3429  
 Step 75: Loss: 0.0223, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.2403  
 Step 76: Loss: 0.0220, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.1414  
 Step 77: Loss: 0.0218, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.0467  
 Step 78: Loss: 0.0216, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.9568  
 Step 79: Loss: 0.0215, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.8726  
 Step 80: Loss: 0.0214, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.7946  
 Step 81: Loss: 0.0214, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.7239  
 Step 82: Loss: 0.0214, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6610  
 Step 83: Loss: 0.0214, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.6068  
 Step 84: Loss: 0.0215, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.5619  
 Step 85: Loss: 0.0215, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.5266  
 Step 86: Loss: 0.0215, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.5013  
 Step 87: Loss: 0.0214, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.4858  
 Step 88: Loss: 0.0214, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.4797  
 Step 89: Loss: 0.0213, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0039, Distance: 3.4821  
Step 90: Loss: 0.0213, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0038, Distance: 3.4922  
Step 91: Loss: 0.0212, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0036, Distance: 3.5085  
Step 92: Loss: 0.0211, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.5297  
Step 93: Loss: 0.0210, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0032, Distance: 3.5543  
Step 94: Loss: 0.0210, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0031, Distance: 3.5808  
Step 95: Loss: 0.0210, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 3.6079  
Step 96: Loss: 0.0209, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.6344  
Step 97: Loss: 0.0209, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0026, Distance: 3.6594  
Step 98: Loss: 0.0209, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0025, Distance: 3.6819  
Step 99: Loss: 0.0209, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 3.7015  
Step 100: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0023, Distance: 3.7177  
Step 101: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0023, Distance: 3.7303  
Step 102: Loss: 0.0209, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0022, Distance: 3.7392  
Step 103: Loss: 0.0209, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0022, Distance: 3.7446  
Step 104: Loss: 0.0209, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0022, Distance: 3.7465  
Step 105: Loss: 0.0209, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0022, Distance: 3.7452  
Step 106: Loss: 0.0209, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0022, Distance: 3.7410  
Step 107: Loss: 0.0209, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0022, Distance: 3.7344  
Step 108: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0023, Distance: 3.7258  
Step 109: Loss: 0.0209, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0023, Distance: 3.7155  
Step 110: Loss: 0.0209, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0023, Distance: 3.7040  
Step 111: Loss: 0.0209, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 3.6918  
Step 112: Loss: 0.0209, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0024, Distance: 3.6793  
Step 113: Loss: 0.0209, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 3.6669  
 Step 114: Loss: 0.0209, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6548  
 Step 115: Loss: 0.0209, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6436  
 Step 116: Loss: 0.0209, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6333  
 Step 117: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6244  
 Step 118: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6168  
 Step 119: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6108  
 Step 120: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6063  
 Step 121: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6034  
 Step 122: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6021  
 Step 123: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6021  
 Step 124: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6035  
 Step 125: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6059  
 Step 126: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6092  
 Step 127: Loss: 0.0208, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.6133  
 Step 128: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6177  
 Step 129: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6225  
 Step 130: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6273  
 Step 131: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.6320  
 Step 132: Loss: 0.0208, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6364  
 Step 133: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6404  
 Step 134: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6438  
 Step 135: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6467  
 Step 136: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6490  
 Step 137: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0026, Distance: 3.6373  
 Step 186: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6373  
 Step 187: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6373  
 Step 188: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6374  
 Step 189: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6374  
 Step 190: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6376  
 Step 191: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6377  
 Step 192: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6378  
 Step 193: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6380  
 Step 194: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6382  
 Step 195: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6383  
 Step 196: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6384  
 Step 197: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6386  
 Step 198: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6387  
 Step 199: Loss: 0.0208, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.6387  
 Step 00: Loss: 0.7448, Total Entropy: 0.7448, Epistemic Entropy: 0.0119,  
 Aleatoric Entropy: 0.7329, Distance: 0.0000  
 Step 01: Loss: 0.1673, Total Entropy: 0.1593, Epistemic Entropy: 0.0020,  
 Aleatoric Entropy: 0.1573, Distance: 1.6000  
 Step 02: Loss: 0.0386, Total Entropy: 0.0235, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0232, Distance: 3.0118  
 Step 03: Loss: 0.0256, Total Entropy: 0.0048, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0048, Distance: 4.1562  
 Step 04: Loss: 0.0268, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 5.0884  
 Step 05: Loss: 0.0298, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.8623  
 Step 06: Loss: 0.0328, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 6.5142  
 Step 07: Loss: 0.0354, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0690  
 Step 08: Loss: 0.0378, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.5439  
 Step 09: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 7.9519  
 Step 10: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3030  
 Step 11: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6049  
 Step 12: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8641  
 Step 13: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0857  
 Step 14: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2741  
 Step 15: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4330  
 Step 16: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5655  
 Step 17: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6745  
 Step 18: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7623  
 Step 19: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8311  
 Step 20: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8826  
 Step 21: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9185  
 Step 22: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9403  
 Step 23: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9493  
 Step 24: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9467  
 Step 25: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9335  
 Step 26: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9108  
 Step 27: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8793  
 Step 28: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8398  
 Step 29: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7932  
 Step 30: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7399  
 Step 31: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6808  
 Step 32: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6162  
 Step 33: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.5467  
 Step 34: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4728  
 Step 35: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3949  
 Step 36: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3134  
 Step 37: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2286  
 Step 38: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1408  
 Step 39: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0505  
 Step 40: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9577  
 Step 41: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8629  
 Step 42: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7661  
 Step 43: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6677  
 Step 44: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5677  
 Step 45: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4664  
 Step 46: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3639  
 Step 47: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2604  
 Step 48: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1559  
 Step 49: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0506  
 Step 50: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9446  
 Step 51: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8380  
 Step 52: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7308  
 Step 53: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6232  
 Step 54: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5152  
 Step 55: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4070  
 Step 56: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2985  
 Step 57: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.1898  
 Step 58: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0811  
 Step 59: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9722  
 Step 60: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8634  
 Step 61: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7547  
 Step 62: Loss: 0.0333, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6460  
 Step 63: Loss: 0.0327, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5376  
 Step 64: Loss: 0.0322, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4293  
 Step 65: Loss: 0.0317, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3212  
 Step 66: Loss: 0.0312, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2135  
 Step 67: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1061  
 Step 68: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9991  
 Step 69: Loss: 0.0296, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8925  
 Step 70: Loss: 0.0291, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7865  
 Step 71: Loss: 0.0286, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6810  
 Step 72: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5762  
 Step 73: Loss: 0.0276, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4721  
 Step 74: Loss: 0.0271, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3687  
 Step 75: Loss: 0.0267, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.2662  
 Step 76: Loss: 0.0262, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1646  
 Step 77: Loss: 0.0258, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0641  
 Step 78: Loss: 0.0253, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9648  
 Step 79: Loss: 0.0249, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8668  
 Step 80: Loss: 0.0245, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7703  
 Step 81: Loss: 0.0242, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0008, Distance: 4.6755  
 Step 82: Loss: 0.0238, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.5824  
 Step 83: Loss: 0.0235, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.4915  
 Step 84: Loss: 0.0232, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.4028  
 Step 85: Loss: 0.0229, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 4.3168  
 Step 86: Loss: 0.0227, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 4.2336  
 Step 87: Loss: 0.0225, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 4.1537  
 Step 88: Loss: 0.0223, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 4.0773  
 Step 89: Loss: 0.0221, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 4.0049  
 Step 90: Loss: 0.0220, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.9368  
 Step 91: Loss: 0.0220, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.8734  
 Step 92: Loss: 0.0219, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.8152  
 Step 93: Loss: 0.0219, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7623  
 Step 94: Loss: 0.0219, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.7153  
 Step 95: Loss: 0.0219, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.6742  
 Step 96: Loss: 0.0219, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0037, Distance: 3.6394  
 Step 97: Loss: 0.0219, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.6109  
 Step 98: Loss: 0.0219, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.5887  
 Step 99: Loss: 0.0219, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.5726  
 Step 100: Loss: 0.0219, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.5625  
 Step 101: Loss: 0.0219, Total Entropy: 0.0041, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.5580  
 Step 102: Loss: 0.0218, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0040, Distance: 3.5586  
 Step 103: Loss: 0.0218, Total Entropy: 0.0040, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0039, Distance: 3.5638  
 Step 104: Loss: 0.0217, Total Entropy: 0.0039, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0038, Distance: 3.5729  
 Step 105: Loss: 0.0217, Total Entropy: 0.0038, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0037, Distance: 3.5852  
Step 106: Loss: 0.0217, Total Entropy: 0.0037, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0036, Distance: 3.6000  
Step 107: Loss: 0.0216, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0035, Distance: 3.6165  
Step 108: Loss: 0.0216, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0034, Distance: 3.6342  
Step 109: Loss: 0.0216, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0033, Distance: 3.6522  
Step 110: Loss: 0.0216, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0032, Distance: 3.6702  
Step 111: Loss: 0.0216, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0031, Distance: 3.6875  
Step 112: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0030, Distance: 3.7037  
Step 113: Loss: 0.0216, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 3.7185  
Step 114: Loss: 0.0216, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0029, Distance: 3.7316  
Step 115: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 3.7429  
Step 116: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 3.7523  
Step 117: Loss: 0.0216, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7596  
Step 118: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7650  
Step 119: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7685  
Step 120: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7701  
Step 121: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7701  
Step 122: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7686  
Step 123: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7657  
Step 124: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7618  
Step 125: Loss: 0.0215, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7568  
Step 126: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0027, Distance: 3.7512  
Step 127: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 3.7450  
Step 128: Loss: 0.0215, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0028, Distance: 3.7385  
Step 129: Loss: 0.0215, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0028, Distance: 3.7318  
 Step 130: Loss: 0.0215, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7251  
 Step 131: Loss: 0.0215, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7186  
 Step 132: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.7123  
 Step 133: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7065  
 Step 134: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.7012  
 Step 135: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6965  
 Step 136: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6925  
 Step 137: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6891  
 Step 138: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6864  
 Step 139: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6844  
 Step 140: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6831  
 Step 141: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6824  
 Step 142: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6824  
 Step 143: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6828  
 Step 144: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6838  
 Step 145: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0031, Distance: 3.6851  
 Step 146: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6868  
 Step 147: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6887  
 Step 148: Loss: 0.0215, Total Entropy: 0.0031, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6908  
 Step 149: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6930  
 Step 150: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6952  
 Step 151: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6974  
 Step 152: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.6995  
 Step 153: Loss: 0.0215, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,

[illegible]

[illegible]



Aleatoric Entropy: 0.3313, Distance: 1.6000  
 Step 02: Loss: 0.0623, Total Entropy: 0.0491, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0486, Distance: 2.6445  
 Step 03: Loss: 0.0251, Total Entropy: 0.0066, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0066, Distance: 3.6908  
 Step 04: Loss: 0.0241, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.5864  
 Step 05: Loss: 0.0270, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.3428  
 Step 06: Loss: 0.0300, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9855  
 Step 07: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5348  
 Step 08: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0066  
 Step 09: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4127  
 Step 10: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7625  
 Step 11: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0636  
 Step 12: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3219  
 Step 13: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5427  
 Step 14: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7302  
 Step 15: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8881  
 Step 16: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0194  
 Step 17: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1268  
 Step 18: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2129  
 Step 19: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2796  
 Step 20: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3288  
 Step 21: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3623  
 Step 22: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3815  
 Step 23: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3878  
 Step 24: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3824  
 Step 25: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3663  
 Step 26: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3407  
 Step 27: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3062  
 Step 28: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2639  
 Step 29: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2143  
 Step 30: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1582  
 Step 31: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0961  
 Step 32: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0287  
 Step 33: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9563  
 Step 34: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8795  
 Step 35: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7987  
 Step 36: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7142  
 Step 37: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6264  
 Step 38: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5357  
 Step 39: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4423  
 Step 40: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3465  
 Step 41: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2485  
 Step 42: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1485  
 Step 43: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0467  
 Step 44: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9434  
 Step 45: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8387  
 Step 46: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7327  
 Step 47: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6256  
 Step 48: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5176  
 Step 49: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.4087  
 Step 50: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2990  
 Step 51: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1888  
 Step 52: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0780  
 Step 53: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9668  
 Step 54: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8552  
 Step 55: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7433  
 Step 56: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6313  
 Step 57: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5191  
 Step 58: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4068  
 Step 59: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2945  
 Step 60: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1823  
 Step 61: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0701  
 Step 62: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9582  
 Step 63: Loss: 0.0293, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8464  
 Step 64: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7349  
 Step 65: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6237  
 Step 66: Loss: 0.0277, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5128  
 Step 67: Loss: 0.0271, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4024  
 Step 68: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2925  
 Step 69: Loss: 0.0261, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1831  
 Step 70: Loss: 0.0256, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0744  
 Step 71: Loss: 0.0251, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9664  
 Step 72: Loss: 0.0246, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8593  
 Step 73: Loss: 0.0241, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0003, Distance: 4.7531  
 Step 74: Loss: 0.0236, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6481  
 Step 75: Loss: 0.0232, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5443  
 Step 76: Loss: 0.0228, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.4421  
 Step 77: Loss: 0.0224, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.3416  
 Step 78: Loss: 0.0220, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.2431  
 Step 79: Loss: 0.0217, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.1471  
 Step 80: Loss: 0.0214, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.0537  
 Step 81: Loss: 0.0211, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.9636  
 Step 82: Loss: 0.0209, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.8772  
 Step 83: Loss: 0.0207, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.7951  
 Step 84: Loss: 0.0206, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.7178  
 Step 85: Loss: 0.0205, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6461  
 Step 86: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5807  
 Step 87: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5221  
 Step 88: Loss: 0.0203, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.4711  
 Step 89: Loss: 0.0203, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.4280  
 Step 90: Loss: 0.0203, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0033, Distance: 3.3933  
 Step 91: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.3671  
 Step 92: Loss: 0.0203, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.3492  
 Step 93: Loss: 0.0203, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.3394  
 Step 94: Loss: 0.0203, Total Entropy: 0.0036, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0036, Distance: 3.3371  
 Step 95: Loss: 0.0203, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.3414  
 Step 96: Loss: 0.0202, Total Entropy: 0.0034, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0034, Distance: 3.3513  
 Step 97: Loss: 0.0202, Total Entropy: 0.0033, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0033, Distance: 3.3657  
 Step 98: Loss: 0.0201, Total Entropy: 0.0032, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0032, Distance: 3.3836  
 Step 99: Loss: 0.0201, Total Entropy: 0.0030, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0030, Distance: 3.4037  
 Step 100: Loss: 0.0200, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.4250  
 Step 101: Loss: 0.0200, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.4464  
 Step 102: Loss: 0.0200, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.4672  
 Step 103: Loss: 0.0200, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.4867  
 Step 104: Loss: 0.0200, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5042  
 Step 105: Loss: 0.0200, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5195  
 Step 106: Loss: 0.0199, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5322  
 Step 107: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.5422  
 Step 108: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.5494  
 Step 109: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.5538  
 Step 110: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.5557  
 Step 111: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.5552  
 Step 112: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.5525  
 Step 113: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.5480  
 Step 114: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.5418  
 Step 115: Loss: 0.0199, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.5344  
 Step 116: Loss: 0.0199, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5260  
 Step 117: Loss: 0.0199, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5170  
 Step 118: Loss: 0.0199, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5077  
 Step 119: Loss: 0.0199, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.4984  
 Step 120: Loss: 0.0199, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.4893  
 Step 121: Loss: 0.0199, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,

[illegible]

[illegible]





Aleatoric Entropy: 0.0025, Distance: 3.4706  
 Step 194: Loss: 0.0199, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.4706  
 Step 195: Loss: 0.0199, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.4706  
 Step 196: Loss: 0.0199, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.4706  
 Step 197: Loss: 0.0199, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.4707  
 Step 198: Loss: 0.0199, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.4707  
 Step 199: Loss: 0.0199, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.4707

Results over 50 most uncertain images:

Average latent entropy reduction: 0.982

Average reconstruction entropy reduction: 0.062

Average distance between original and explained latents: 3.925

```

[48]: # Create a figure with two subplots
plt.figure(figsize=(12, 5))

# Plot histogram of latent entropy reductions
plt.subplot(1, 2, 1)
plt.hist(latent_entropy_reductions, bins=20, alpha=0.7)
plt.axvline(avg_latent_entropy_reduction, color='r', linestyle='--',
            label=f'Mean: {avg_latent_entropy_reduction:.3f}')
plt.xlabel('Entropy Reduction')
plt.ylabel('Count')
plt.title('Distribution of Latent Entropy Reductions')
plt.legend()

# Plot histogram of reconstruction entropy reductions
plt.subplot(1, 2, 2)
plt.hist(recon_entropy_reductions, bins=20, alpha=0.7)
plt.axvline(avg_recon_entropy_reduction, color='r', linestyle='--',
            label=f'Mean: {avg_recon_entropy_reduction:.3f}')
plt.xlabel('Entropy Reduction')
plt.ylabel('Count')
plt.title('Distribution of Reconstruction Entropy Reductions')
plt.legend()

plt.tight_layout()
plt.show()
  
```

