

# test\_clue\_BLL\_joint

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

```
[1]: 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
import models.BLL_VI
import models.regene_models
```

Set the configuration

```
[2]: # 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

```
[3]: # 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

```
[4]: # 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

```
[5]: backbone = regene_models.Classifier(latent_dim=cfg.latent_dim, num_classes=10,
    ↳device=cfg.device)
print(f"Backbone will run on: {cfg.device}")
```

Backbone will run on: mps

Load weights

```
[6]: backbone.load_state_dict(torch.load(os.path.join(model_saves_dir,
    ↳'joint_classifier.pth'), map_location=cfg.device))
```

/var/folders/tb/ccwl9r592hn9v\_xpq9s1bzlr0000gn/T/ipykernel\_21837/613504044.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.

```
backbone.load_state_dict(torch.load(os.path.join(model_saves_dir,
'joint_classifier.pth'), map_location=cfg.device))
```

[6]: <All keys matched successfully>

Next, define the decoder

```
[7]: decoder = regene_models.Decoder(latent_dim=256, device=cfg.device)
```

And load it

```
[8]: decoder.load_state_dict(torch.load(os.path.join(model_saves_dir, 'joint_decoder.
pth'), map_location=cfg.device))
```

```
/var/folders/tb/ccwl9r592hn9v_xpq9s1bzlr0000gn/T/ipykernel_21837/2140094936.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,
'joint_decoder.pth'), map_location=cfg.device))
```

[8]: <All keys matched successfully>

### 1.3 Load the BLL classifier

Define the MCMC model

```
[9]: 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 MCMC model

```
[10]: bll.load_checkpoint(model_saves_dir + '/mnist_bll_models/BLL_MCMC_Joint_Decoder.
      ↪pth')
```

```

[load_checkpoint] Loaded checkpoint from
../model_saves/mnist_bll_models/BLL_MCMC_Joint_Decoder.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)

```

Define the VI model

```
[11]: from models.BLL_VI import BayesianLastLayerVI
importlib.reload(models.BLL_VI)

bll_vi = BayesianLastLayerVI(
    backbone=backbone,
    input_dim=256,
    output_dim=10,
    device=cfg.device
)
```

Load the VI model

```
[12]: bll_vi.load_checkpoint(model_saves_dir + '/mnist_bll_vi_models/
      ↪BLL_VI_Joint_Decoder.pt')
```

```
[load_checkpoint] Loaded checkpoint from
../model_saves/mnist_bll_vi_models/BLL_VI_Joint_Decoder.pt

/Users/conor/Documents/College terms/College/Thesis/Thesis_Code_Minimised/MyImplementation/models/BLL_VI.py:143: 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.

```
[19]: # 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_vi.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.

```
[20]: 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]

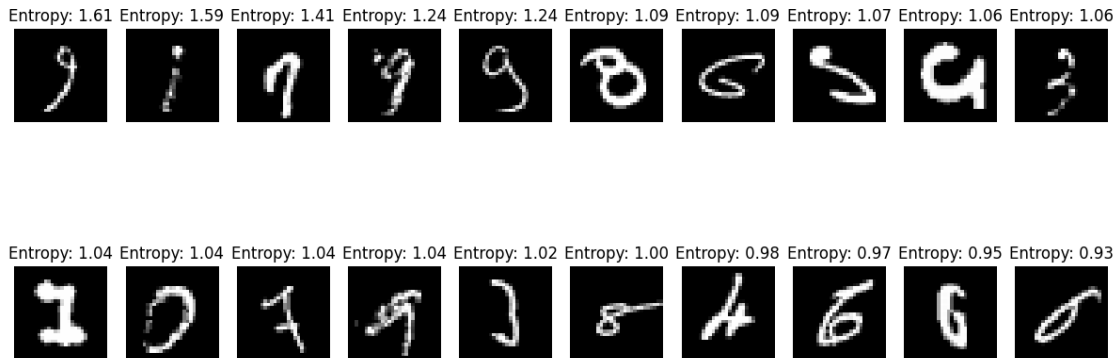
        # If image is a torch.Tensor, convert it to a NumPy array.
        if torch.is_tensor(image):
            image = image.cpu().detach().numpy()
            # If the image has one channel [1, H, W], squeeze out the channel
            ↪dimension.
            if image.ndim == 3 and image.shape[0] == 1: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

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

Most Uncertain Predictions



## 1.5 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.

### 1.5.1 Visualising

The first test is just with one image

```
[22]: # Get the most uncertain image and its latent representation
most_uncertain_idx = sorted_data_indices[2]
uncertain_image, true_label = 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=0.001,
    lr=0.1,
    device=cfg.device,
    bayesian=True,
    verbose=False
)

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

# 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)

```



```

# Get predicted classes
original_pred = original_mean_probs_recon.argmax(dim=1).item()
explained_pred = explained_mean_probs_recon.argmax(dim=1).item()

# Plot results
plt.figure(figsize=(15, 10))

plt.subplot(231)
plt.imshow(uncertain_image[0,0].cpu(), cmap='gray')
plt.title(f'Original Image\nTrue Class: {true_label}, Predicted: {original_pred}\nEntropy: {original_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(232)
plt.imshow(clue_recon[0,0].cpu().detach(), cmap='gray')
plt.title(f'Counterfactual\nPredicted: {explained_pred}\nEntropy: {explained_entropy_recon[0]:.3f}')
plt.axis('off')

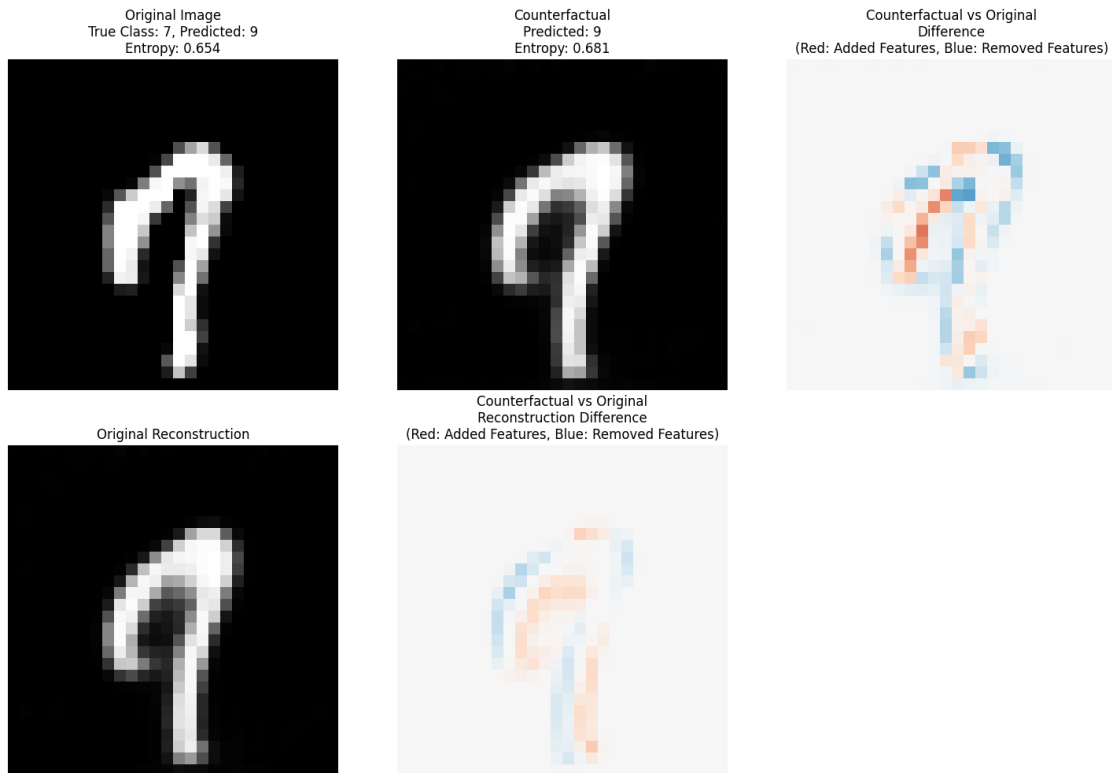
plt.subplot(233)
diff = clue_recon[0,0].cpu().detach() - uncertain_image[0,0].cpu()
plt.imshow(diff, cmap='RdBu', vmin=-1, vmax=1) # Fixed scale -1 to 1
plt.title('Counterfactual vs Original\nDifference\n(Red: Added Features, Blue: Removed Features)')
plt.axis('off')

plt.subplot(234)
plt.imshow(original_recon[0,0].cpu().detach(), cmap='gray')
plt.title('Original Reconstruction')
plt.axis('off')

plt.subplot(235)
recon_diff = clue_recon[0,0].cpu().detach() - original_recon[0,0].cpu().detach()
plt.imshow(recon_diff, cmap='RdBu', vmin=-1, vmax=1) # Fixed scale -1 to 1
plt.title('Counterfactual vs Original\nReconstruction Difference\n(Red: Added Features, Blue: Removed Features)')
plt.axis('off')

plt.tight_layout()
plt.show()

```



And test deterministic equivalent

```
[33]: # Get the most uncertain image and its latent representation
most_uncertain_idx = sorted_data_indices[8]
uncertain_image, true_label = testset[most_uncertain_idx]
uncertain_image = uncertain_image.to(cfg.device).unsqueeze(0) # Add batch
↳ dimension

# Get its latent representation
backbone.eval()
with torch.no_grad():
    z0, _ = backbone(uncertain_image)

# Initialize CLUE
clue = new_CLUE.NewCLUE(
    classifier=backbone.classifier, # Just use the classifier head
    z0=z0,
    uncertainty_weight=1.0,
    distance_weight=0.005,
    lr=0.1,
    device=cfg.device,
    bayesian=False, # Non-Bayesian mode
```

```

        verbose=False
    )

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

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

        # Get predictions from classifier head
        original_logits = backbone.classifier(z0)
        explained_logits = backbone.classifier(z_explained)

        # Convert to probabilities
        original_probs = torch.nn.functional.softmax(original_logits, dim=1)
        explained_probs = torch.nn.functional.softmax(explained_logits, dim=1)

        # Get predictions from full classifier workflow on reconstructions
        _, original_recon_logits = backbone(original_recon)
        _, explained_recon_logits = backbone(clue_recon)

        original_recon_probs = torch.nn.functional.softmax(original_recon_logits,
        ↪dim=1)
        explained_recon_probs = torch.nn.functional.softmax(explained_recon_logits,
        ↪dim=1)

        # Calculate entropies for latent predictions
        original_entropy_latent = -(original_probs * torch.log(original_probs +
        ↪1e-10)).sum(dim=1)
        explained_entropy_latent = -(explained_probs * torch.log(explained_probs +
        ↪1e-10)).sum(dim=1)

        # Calculate entropies for reconstruction predictions
        original_entropy_recon = -(original_recon_probs * torch.
        ↪log(original_recon_probs + 1e-10)).sum(dim=1)
        explained_entropy_recon = -(explained_recon_probs * torch.
        ↪log(explained_recon_probs + 1e-10)).sum(dim=1)

        # Get predicted classes
        original_pred = original_recon_probs.argmax(dim=1).item()
        explained_pred = explained_recon_probs.argmax(dim=1).item()

```

```

# Plot results
plt.figure(figsize=(15, 10))

plt.subplot(231)
plt.imshow(uncertain_image[0,0].cpu(), cmap='gray')
plt.title(f'Original Image\nTrue Class: {true_label}, Predicted: {original_pred}\nEntropy: {original_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(232)
plt.imshow(clue_recon[0,0].cpu().detach(), cmap='gray')
plt.title(f'Counterfactual\nPredicted: {explained_pred}\nEntropy: {explained_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(233)
diff = clue_recon[0,0].cpu().detach() - uncertain_image[0,0].cpu()
plt.imshow(diff, cmap='RdBu', vmin=-1, vmax=1) # Fixed scale -1 to 1
plt.title('Counterfactual vs Original\nDifference\n(Red: Removed Features, Blue: Added Features)')
plt.axis('off')

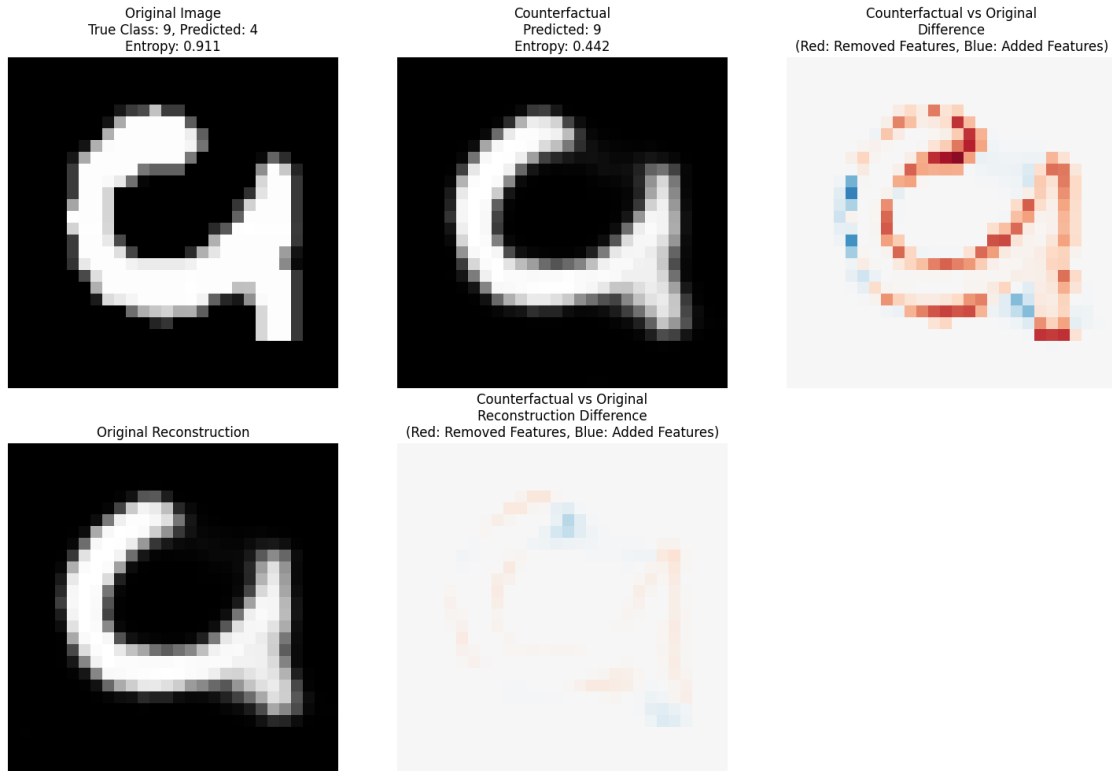
plt.subplot(234)
plt.imshow(original_recon[0,0].cpu().detach(), cmap='gray')
plt.title('Original Reconstruction')
plt.axis('off')

plt.subplot(235)
recon_diff = clue_recon[0,0].cpu().detach() - original_recon[0,0].cpu().detach()
plt.imshow(recon_diff, cmap='RdBu', vmin=-1, vmax=1) # Fixed scale -1 to 1
plt.title('Counterfactual vs Original\nReconstruction Difference\n(Red: Removed Features, Blue: Added Features)')
plt.axis('off')

plt.tight_layout()
plt.show()

# Print probabilities
print("\nClass probabilities:")
print(f"Original (True class: {true_label}, Predicted: {original_pred}):", original_recon_probs.cpu().numpy()[0].round(3))
print(f"Explained (Predicted: {explained_pred}):", explained_recon_probs.cpu().numpy()[0].round(3))

```



Class probabilities:

Original (True class: 9, Predicted: 4): [0.003 0. 0. 0. 0.621 0. 0.264 0. 0. 0.111]

Explained (Predicted: 9): [0.003 0. 0. 0. 0.071 0. 0.041 0. 0. 0.885]

And the BLL VI

```
[28]: # Get the most uncertain image and its latent representation
most_uncertain_idx = sorted_data_indices[2]
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_vi.extract_features(uncertain_image)

# Initialize CLUE
clue = new_CLUE.NewCLUE(
    classifier=bll_vi,
```

```

    z0=z0,
    uncertainty_weight=1.0,
    distance_weight=0.005,
    lr=0.1,
    device=cfg.device,
    bayesian=True,
    verbose=False
)

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

# 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_vi.sample_predict_z(z0) # [n_ensemble, batch, n
    ↪classes]
    explained_probs_latent = bll_vi.sample_predict_z(z_explained)

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

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

```

```

# Get predicted classes
original_pred = original_mean_probs_recon.argmax(dim=1).item()
explained_pred = explained_mean_probs_recon.argmax(dim=1).item()

# Plot results
plt.figure(figsize=(15, 10))

plt.subplot(231)
plt.imshow(uncertain_image[0,0].cpu(), cmap='gray')
plt.title(f'Original Image\nPredicted: {original_pred}\nEntropy:␣
↳{original_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(232)
plt.imshow(clue_recon[0,0].cpu().detach(), cmap='gray')
plt.title(f'Counterfactual\nPredicted: {explained_pred}\nEntropy:␣
↳{explained_entropy_recon[0]:.3f}')
plt.axis('off')

plt.subplot(233)
diff = clue_recon[0,0].cpu().detach() - uncertain_image[0,0].cpu()
plt.imshow(diff, cmap='RdBu', vmin=-1, vmax=1) # Fixed scale -1 to 1
plt.title('Counterfactual vs Original\nDifference\n(Red: Removed Features, Blue:
↳ Added Features)')
plt.axis('off')

plt.subplot(234)
plt.imshow(original_recon[0,0].cpu().detach(), cmap='gray')
plt.title('Original Reconstruction')
plt.axis('off')

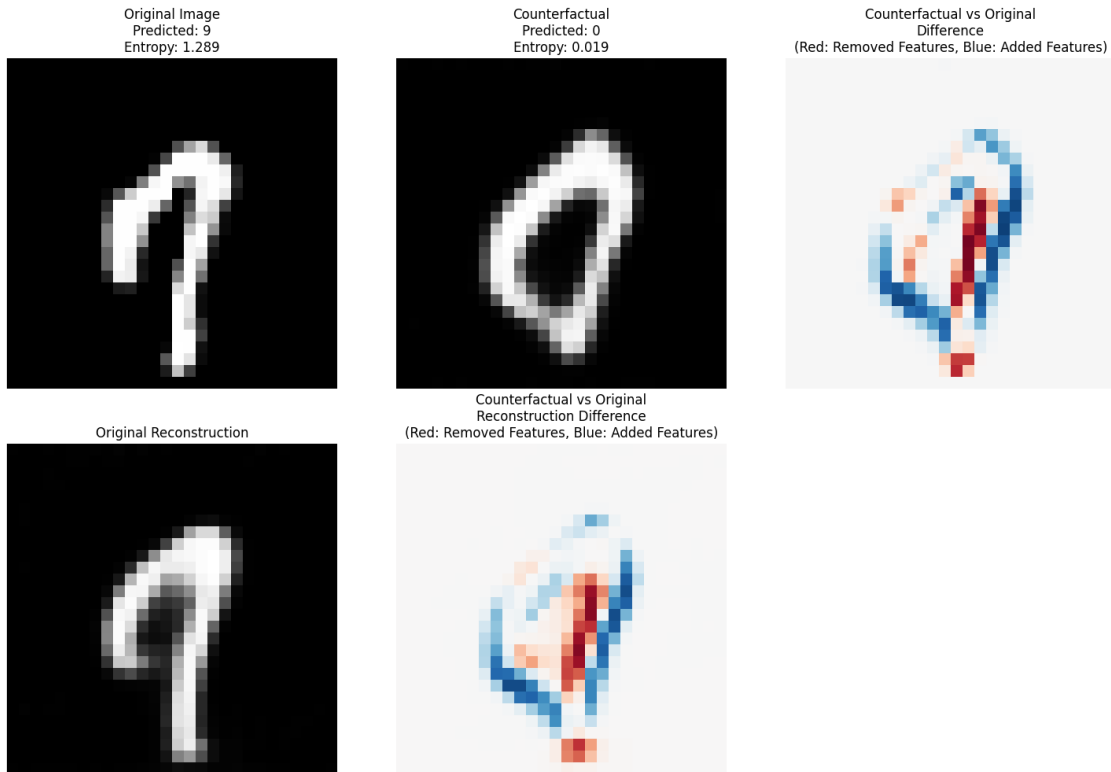
plt.subplot(235)
recon_diff = clue_recon[0,0].cpu().detach() - original_recon[0,0].cpu().detach()
plt.imshow(recon_diff, cmap='RdBu', vmin=-1, vmax=1) # Fixed scale -1 to 1
plt.title('Counterfactual vs Original\nReconstruction Difference\n(Red: Removed,
↳ Features, Blue: Added Features)')
plt.axis('off')

plt.tight_layout()
plt.show()

# Print probabilities
print("\nClass probabilities:")
print(f"Original (True class: {true_label}, Predicted: {original_pred}):",␣
↳original_recon_probs.cpu().numpy()[0].round(3))

```

```
print(f"Explained (Predicted: {explained_pred}):", explained_recon_probs.cpu().
      ↪numpy()[0].round(3))
```



Class probabilities:

```
Original tensor: tensor([[1.9808e-01, 1.3632e-01, 1.9708e-03, 6.3255e-04,
7.8252e-04, 1.1693e-04,
1.3473e-05, 1.7959e-01, 1.9982e-03, 4.8049e-01]], device='mps:0')
Original (True class: 7, Predicted: 9): [0.198 0.136 0.002 0.001 0.001 0.    0.
0.18  0.002 0.48 ]
Explained tensor: tensor([[9.9765e-01, 2.0229e-04, 1.2046e-05, 2.6984e-07,
3.2321e-06, 8.2415e-06,
1.4082e-04, 6.7746e-05, 5.8165e-05, 1.8599e-03]], device='mps:0')
Explained (Predicted: 0): [0.998 0.    0.    0.    0.    0.    0.    0.
0.002]
```

Class probabilities:

```
Original (True class: 7, Predicted: 9): [0.009 0.145 0.    0.    0.    0.    0.
0.283 0.006 0.558]
Explained (Predicted: 0): [0.003 0.091 0.    0.    0.    0.    0.    0.762 0.001
0.142]
```

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.

```
[25]: # 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(cfg.device)
        z = bll_vi.extract_features(images) # Use bll_vi.extract_features
        ↪instead of 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)

# Get latent code of reconstructed counterfactual
with torch.no_grad():
    z_recon = bll_vi.extract_features(clue_recon)

# Add z0, z_explained and z_recon to the latent codes
all_latents = torch.cat([latent_codes, z0.cpu(), z_explained.cpu(), z_recon.
    ↪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[:-3]
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, explained and reconstructed points
plt.scatter(latents_2d[-3, 0], latents_2d[-3, 1], c='black', s=10,
    ↪label='Original (z0)')
plt.scatter(latents_2d[-2, 0], latents_2d[-2, 1], c='red', s=10,
    ↪label='Explained (z)')
plt.scatter(latents_2d[-1, 0], latents_2d[-1, 1], c='blue', s=10,
    ↪label='Reconstructed (z_recon)')
```

```

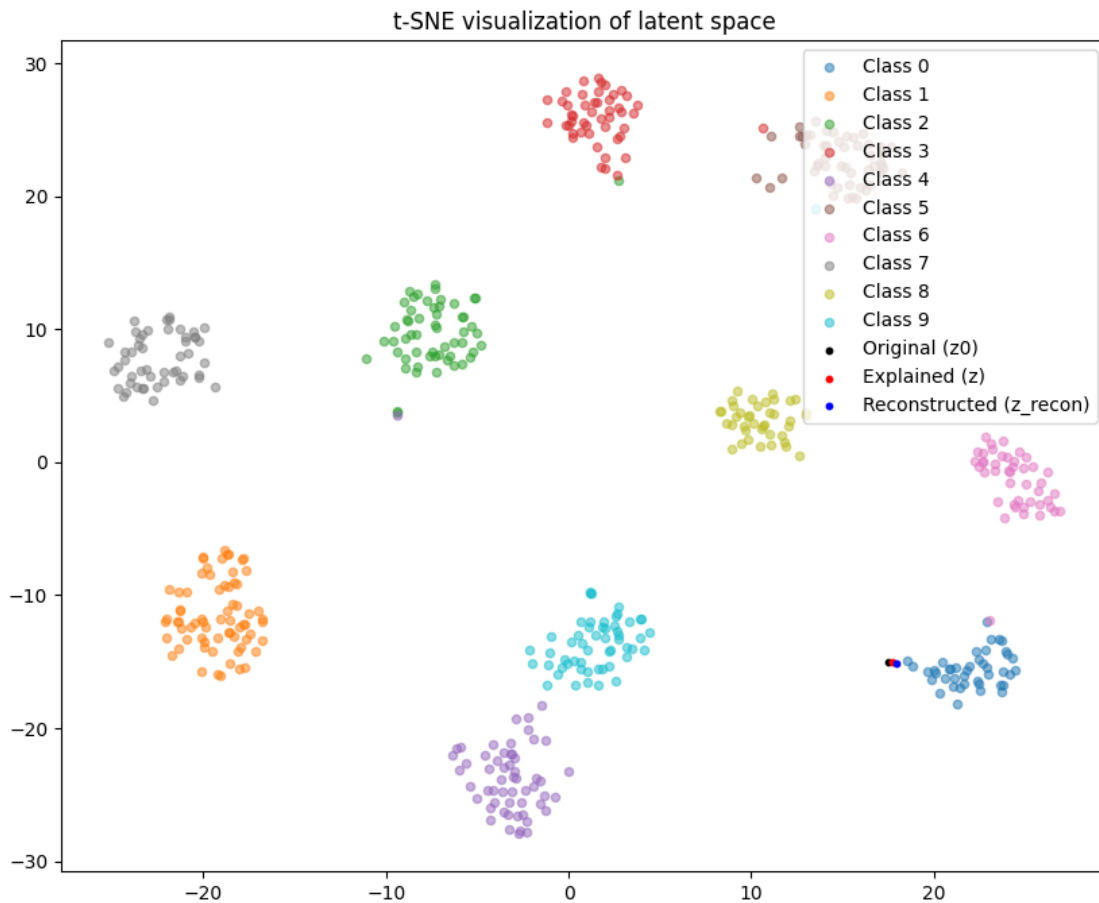
# Calculate and print distances between points in t-SNE space
tsne_distance_orig_exp = np.sqrt(np.sum((latents_2d[-3] - latents_2d[-2])**2))
tsne_distance_exp_recon = np.sqrt(np.sum((latents_2d[-2] - latents_2d[-1])**2))
print(f"\nDistance between original and explained points in t-SNE space:␣
↪{tsne_distance_orig_exp:.3f}")
print(f"Distance between explained and reconstructed points in t-SNE space:␣
↪{tsne_distance_exp_recon:.3f}")

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

```

Distance between original and explained points in t-SNE space: 0.253

Distance between explained and reconstructed points in t-SNE space: 0.203



### 1.5.2 Comparing metrics between Bayesian and Deterministic Last Layer

Test on the MCMC BLL

```
[29]: # 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: 1.6056, Total Entropy: 1.6056, Epistemic Entropy: 0.0867,  
Aleatoric Entropy: 1.5188, Distance: 0.0000  
Step 01: Loss: 0.4358, Total Entropy: 0.4278, Epistemic Entropy: 0.0160,  
Aleatoric Entropy: 0.4117, Distance: 1.6000  
Step 02: Loss: 0.0596, Total Entropy: 0.0447, Epistemic Entropy: 0.0012,  
Aleatoric Entropy: 0.0435, Distance: 2.9715  
Step 03: Loss: 0.0266, Total Entropy: 0.0059, Epistemic Entropy: 0.0002,  
Aleatoric Entropy: 0.0058, Distance: 4.1327  
Step 04: Loss: 0.0266, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0011, Distance: 5.0942  
Step 05: Loss: 0.0298, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 5.9033  
Step 06: Loss: 0.0330, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 6.5941  
Step 07: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.1902  
Step 08: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.7083  
Step 09: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1609  
Step 10: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.5575  
Step 11: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.9058  
Step 12: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2117  
Step 13: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4805  
Step 14: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7163  
Step 15: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9227  
Step 16: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.1029  
Step 17: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.2594  
Step 18: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.3948  
Step 19: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.5110  
Step 20: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.6098  
Step 21: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 10.6930  
Step 22: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.7619  
 Step 23: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8178  
 Step 24: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8620  
 Step 25: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8955  
 Step 26: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9193  
 Step 27: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9341  
 Step 28: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9408  
 Step 29: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9402  
 Step 30: Loss: 0.0547, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9327  
 Step 31: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9192  
 Step 32: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9000  
 Step 33: Loss: 0.0544, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8756  
 Step 34: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8466  
 Step 35: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8132  
 Step 36: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7759  
 Step 37: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7351  
 Step 38: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6910  
 Step 39: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6439  
 Step 40: Loss: 0.0530, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5940  
 Step 41: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5417  
 Step 42: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4871  
 Step 43: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4304  
 Step 44: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3717  
 Step 45: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3114  
 Step 46: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.2495  
 Step 47: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1861  
 Step 48: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1214  
 Step 49: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0555  
 Step 50: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9885  
 Step 51: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9205  
 Step 52: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8516  
 Step 53: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7819  
 Step 54: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7113  
 Step 55: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6401  
 Step 56: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5683  
 Step 57: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4959  
 Step 58: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4230  
 Step 59: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3495  
 Step 60: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2757  
 Step 61: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2014  
 Step 62: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1268  
 Step 63: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0518  
 Step 64: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9765  
 Step 65: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9010  
 Step 66: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8252  
 Step 67: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7492  
 Step 68: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6730  
 Step 69: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5966  
 Step 70: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5200  
 Step 71: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4433  
 Step 72: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3664  
 Step 73: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2895  
 Step 74: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2124  
 Step 75: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1353  
 Step 76: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0581  
 Step 77: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9809  
 Step 78: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9036  
 Step 79: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8262  
 Step 80: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7489  
 Step 81: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6716  
 Step 82: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5942  
 Step 83: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5169  
 Step 84: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4396  
 Step 85: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3623  
 Step 86: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2850  
 Step 87: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2078  
 Step 88: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1307  
 Step 89: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0536  
 Step 90: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9766  
 Step 91: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8997  
 Step 92: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8229  
 Step 93: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7461  
 Step 94: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 6.6695  
 Step 95: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5930  
 Step 96: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5166  
 Step 97: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4403  
 Step 98: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3642  
 Step 99: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2882  
 Step 100: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2124  
 Step 101: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1367  
 Step 102: Loss: 0.0303, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0613  
 Step 103: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9860  
 Step 104: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9109  
 Step 105: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8361  
 Step 106: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7615  
 Step 107: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6871  
 Step 108: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6130  
 Step 109: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5392  
 Step 110: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4657  
 Step 111: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3925  
 Step 112: Loss: 0.0267, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3197  
 Step 113: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2472  
 Step 114: Loss: 0.0260, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1752  
 Step 115: Loss: 0.0257, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1036  
 Step 116: Loss: 0.0253, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0324  
 Step 117: Loss: 0.0250, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9618  
 Step 118: Loss: 0.0247, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.8917  
 Step 119: Loss: 0.0244, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8223  
 Step 120: Loss: 0.0241, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7535  
 Step 121: Loss: 0.0238, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6855  
 Step 122: Loss: 0.0235, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6182  
 Step 123: Loss: 0.0232, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.5518  
 Step 124: Loss: 0.0229, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.4864  
 Step 125: Loss: 0.0227, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.4221  
 Step 126: Loss: 0.0224, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.3588  
 Step 127: Loss: 0.0222, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.2969  
 Step 128: Loss: 0.0220, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.2364  
 Step 129: Loss: 0.0218, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.1773  
 Step 130: Loss: 0.0216, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.1200  
 Step 131: Loss: 0.0214, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.0645  
 Step 132: Loss: 0.0213, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 4.0109  
 Step 133: Loss: 0.0212, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.9595  
 Step 134: Loss: 0.0211, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.9104  
 Step 135: Loss: 0.0210, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.8639  
 Step 136: Loss: 0.0209, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.8200  
 Step 137: Loss: 0.0208, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.7789  
 Step 138: Loss: 0.0208, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.7409  
 Step 139: Loss: 0.0207, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7059  
 Step 140: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6742  
 Step 141: Loss: 0.0207, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.6458  
 Step 142: Loss: 0.0207, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0025, Distance: 3.6208  
 Step 143: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.5992  
 Step 144: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.5810  
 Step 145: Loss: 0.0206, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5660  
 Step 146: Loss: 0.0206, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5542  
 Step 147: Loss: 0.0206, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5454  
 Step 148: Loss: 0.0206, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5393  
 Step 149: Loss: 0.0206, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5359  
 Step 150: Loss: 0.0205, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5347  
 Step 151: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5355  
 Step 152: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5381  
 Step 153: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5421  
 Step 154: Loss: 0.0205, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.5472  
 Step 155: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5532  
 Step 156: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.5598  
 Step 157: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5667  
 Step 158: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.5737  
 Step 159: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5806  
 Step 160: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.5873  
 Step 161: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5937  
 Step 162: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5995  
 Step 163: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6047  
 Step 164: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.6092  
 Step 165: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.6131  
 Step 166: Loss: 0.0203, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0023, Distance: 3.5733  
 Step 191: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5718  
 Step 192: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5705  
 Step 193: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5694  
 Step 194: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5686  
 Step 195: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5679  
 Step 196: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5675  
 Step 197: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5672  
 Step 198: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5671  
 Step 199: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.5671  
 Step 00: Loss: 1.5875, Total Entropy: 1.5875, Epistemic Entropy: 0.0447,  
 Aleatoric Entropy: 1.5428, Distance: 0.0000  
 Step 01: Loss: 0.9259, Total Entropy: 0.9179, Epistemic Entropy: 0.0408,  
 Aleatoric Entropy: 0.8770, Distance: 1.6000  
 Step 02: Loss: 0.3155, Total Entropy: 0.3018, Epistemic Entropy: 0.0214,  
 Aleatoric Entropy: 0.2804, Distance: 2.7429  
 Step 03: Loss: 0.0641, Total Entropy: 0.0450, Epistemic Entropy: 0.0030,  
 Aleatoric Entropy: 0.0421, Distance: 3.8178  
 Step 04: Loss: 0.0307, Total Entropy: 0.0067, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0063, Distance: 4.8048  
 Step 05: Loss: 0.0296, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 5.6709  
 Step 06: Loss: 0.0324, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 6.4264  
 Step 07: Loss: 0.0355, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.0876  
 Step 08: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6684  
 Step 09: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1806  
 Step 10: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6333  
 Step 11: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0342  
 Step 12: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3895  
 Step 13: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7044  
 Step 14: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.9835  
 Step 15: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2304  
 Step 16: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4485  
 Step 17: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6406  
 Step 18: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8092  
 Step 19: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9566  
 Step 20: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0847  
 Step 21: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1953  
 Step 22: Loss: 0.0564, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2899  
 Step 23: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3701  
 Step 24: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4369  
 Step 25: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4917  
 Step 26: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5353  
 Step 27: Loss: 0.0578, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5689  
 Step 28: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5932  
 Step 29: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6090  
 Step 30: Loss: 0.0581, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6170  
 Step 31: Loss: 0.0581, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6180  
 Step 32: Loss: 0.0581, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6124  
 Step 33: Loss: 0.0580, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.6008  
 Step 34: Loss: 0.0579, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5837  
 Step 35: Loss: 0.0578, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5617  
 Step 36: Loss: 0.0577, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5349  
 Step 37: Loss: 0.0575, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.5040  
 Step 38: Loss: 0.0573, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 11.4692  
 Step 39: Loss: 0.0572, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.4307  
 Step 40: Loss: 0.0569, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3891  
 Step 41: Loss: 0.0567, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.3444  
 Step 42: Loss: 0.0565, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2969  
 Step 43: Loss: 0.0562, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.2469  
 Step 44: Loss: 0.0560, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1945  
 Step 45: Loss: 0.0557, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.1400  
 Step 46: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0835  
 Step 47: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0252  
 Step 48: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9653  
 Step 49: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9038  
 Step 50: Loss: 0.0542, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8409  
 Step 51: Loss: 0.0539, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7767  
 Step 52: Loss: 0.0536, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7112  
 Step 53: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6447  
 Step 54: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5772  
 Step 55: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5087  
 Step 56: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4394  
 Step 57: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3693  
 Step 58: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2984  
 Step 59: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2269  
 Step 60: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1548  
 Step 61: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0821  
 Step 62: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.0088  
 Step 63: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9351  
 Step 64: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8610  
 Step 65: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7864  
 Step 66: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7114  
 Step 67: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6361  
 Step 68: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5605  
 Step 69: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4846  
 Step 70: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4084  
 Step 71: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3320  
 Step 72: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2554  
 Step 73: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1785  
 Step 74: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1015  
 Step 75: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0243  
 Step 76: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9470  
 Step 77: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8695  
 Step 78: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7919  
 Step 79: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7141  
 Step 80: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6363  
 Step 81: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5584  
 Step 82: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4804  
 Step 83: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4024  
 Step 84: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3243  
 Step 85: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2461  
 Step 86: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.1679  
 Step 87: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0897  
 Step 88: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0115  
 Step 89: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9332  
 Step 90: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8550  
 Step 91: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7767  
 Step 92: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6985  
 Step 93: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6203  
 Step 94: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5421  
 Step 95: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4639  
 Step 96: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3858  
 Step 97: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3077  
 Step 98: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2297  
 Step 99: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1517  
 Step 100: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0738  
 Step 101: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9960  
 Step 102: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9183  
 Step 103: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8406  
 Step 104: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7631  
 Step 105: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6857  
 Step 106: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6084  
 Step 107: Loss: 0.0327, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5313  
 Step 108: Loss: 0.0323, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4543  
 Step 109: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3774  
 Step 110: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.3008  
 Step 111: Loss: 0.0312, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2244  
 Step 112: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1481  
 Step 113: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0721  
 Step 114: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9964  
 Step 115: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9210  
 Step 116: Loss: 0.0294, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8458  
 Step 117: Loss: 0.0290, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7710  
 Step 118: Loss: 0.0287, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6966  
 Step 119: Loss: 0.0283, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6227  
 Step 120: Loss: 0.0280, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5491  
 Step 121: Loss: 0.0277, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4761  
 Step 122: Loss: 0.0274, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4037  
 Step 123: Loss: 0.0270, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.3319  
 Step 124: Loss: 0.0267, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2607  
 Step 125: Loss: 0.0264, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1904  
 Step 126: Loss: 0.0261, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 5.1209  
 Step 127: Loss: 0.0259, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.0523  
 Step 128: Loss: 0.0256, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.9848  
 Step 129: Loss: 0.0254, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.9185  
 Step 130: Loss: 0.0251, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.8534  
 Step 131: Loss: 0.0249, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.7898  
 Step 132: Loss: 0.0247, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 4.7277  
 Step 133: Loss: 0.0245, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 4.6674  
 Step 134: Loss: 0.0243, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0012, Distance: 4.6089  
 Step 135: Loss: 0.0242, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 4.5525  
 Step 136: Loss: 0.0241, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 4.4983  
 Step 137: Loss: 0.0240, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 4.4465  
 Step 138: Loss: 0.0239, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 4.3974  
 Step 139: Loss: 0.0238, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 4.3510  
 Step 140: Loss: 0.0237, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 4.3076  
 Step 141: Loss: 0.0237, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 4.2673  
 Step 142: Loss: 0.0236, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.2304  
 Step 143: Loss: 0.0236, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1968  
 Step 144: Loss: 0.0236, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1667  
 Step 145: Loss: 0.0236, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.1402  
 Step 146: Loss: 0.0235, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.1173  
 Step 147: Loss: 0.0235, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.0979  
 Step 148: Loss: 0.0235, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 4.0820  
 Step 149: Loss: 0.0235, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0695  
 Step 150: Loss: 0.0235, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0603  
 Step 151: Loss: 0.0235, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0540  
 Step 152: Loss: 0.0235, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0506  
 Step 153: Loss: 0.0235, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0497  
 Step 154: Loss: 0.0234, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0510  
 Step 155: Loss: 0.0234, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 4.0543  
 Step 156: Loss: 0.0234, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 4.0593  
 Step 157: Loss: 0.0234, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 4.0655  
 Step 158: Loss: 0.0234, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0029, Distance: 4.0728  
 Step 159: Loss: 0.0234, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 4.0809  
 Step 160: Loss: 0.0233, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.0894  
 Step 161: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 4.0981  
 Step 162: Loss: 0.0233, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.1068  
 Step 163: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 4.1152  
 Step 164: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1233  
 Step 165: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1309  
 Step 166: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1378  
 Step 167: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1440  
 Step 168: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1495  
 Step 169: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1541  
 Step 170: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1579  
 Step 171: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1608  
 Step 172: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1629  
 Step 173: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1643  
 Step 174: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1649  
 Step 175: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1648  
 Step 176: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1641  
 Step 177: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1628  
 Step 178: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1610  
 Step 179: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1589  
 Step 180: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1564  
 Step 181: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 4.1536  
 Step 182: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0024, Distance: 4.1506  
 Step 183: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1475  
 Step 184: Loss: 0.0233, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1444  
 Step 185: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1412  
 Step 186: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1381  
 Step 187: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1351  
 Step 188: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1323  
 Step 189: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 4.1296  
 Step 190: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1271  
 Step 191: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1249  
 Step 192: Loss: 0.0233, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1229  
 Step 193: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1212  
 Step 194: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1198  
 Step 195: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1186  
 Step 196: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1177  
 Step 197: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1171  
 Step 198: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1166  
 Step 199: Loss: 0.0233, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 4.1164  
 Step 00: Loss: 1.4066, Total Entropy: 1.4066, Epistemic Entropy: 0.1324,  
 Aleatoric Entropy: 1.2742, Distance: 0.0000  
 Step 01: Loss: 0.6621, Total Entropy: 0.6541, Epistemic Entropy: 0.0818,  
 Aleatoric Entropy: 0.5723, Distance: 1.6000  
 Step 02: Loss: 0.1122, Total Entropy: 0.0986, Epistemic Entropy: 0.0075,  
 Aleatoric Entropy: 0.0911, Distance: 2.7085  
 Step 03: Loss: 0.0296, Total Entropy: 0.0106, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0101, Distance: 3.7921  
 Step 04: Loss: 0.0252, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 4.7238  
 Step 05: Loss: 0.0279, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.5174  
 Step 06: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.1985  
 Step 07: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7876  
 Step 08: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3003  
 Step 09: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7483  
 Step 10: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1408  
 Step 11: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4852  
 Step 12: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7876  
 Step 13: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0529  
 Step 14: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2853  
 Step 15: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4884  
 Step 16: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6653  
 Step 17: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8187  
 Step 18: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9509  
 Step 19: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0640  
 Step 20: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1598  
 Step 21: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2401  
 Step 22: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3061  
 Step 23: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3593  
 Step 24: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4007  
 Step 25: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4315  
 Step 26: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4527  
 Step 27: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4650  
 Step 28: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4693  
 Step 29: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4662  
 Step 30: Loss: 0.0523, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.4564  
 Step 31: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4405  
 Step 32: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4190  
 Step 33: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3923  
 Step 34: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3610  
 Step 35: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3254  
 Step 36: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2859  
 Step 37: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2428  
 Step 38: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1964  
 Step 39: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1470  
 Step 40: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0948  
 Step 41: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0401  
 Step 42: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9830  
 Step 43: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9238  
 Step 44: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8627  
 Step 45: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7997  
 Step 46: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7352  
 Step 47: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6691  
 Step 48: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6016  
 Step 49: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5328  
 Step 50: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4629  
 Step 51: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3920  
 Step 52: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3201  
 Step 53: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2473  
 Step 54: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.1737  
 Step 55: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0994  
 Step 56: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0244  
 Step 57: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9488  
 Step 58: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8727  
 Step 59: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7961  
 Step 60: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7191  
 Step 61: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6416  
 Step 62: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5638  
 Step 63: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4858  
 Step 64: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4074  
 Step 65: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3288  
 Step 66: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2500  
 Step 67: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1710  
 Step 68: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0919  
 Step 69: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0127  
 Step 70: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9333  
 Step 71: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8539  
 Step 72: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7744  
 Step 73: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6949  
 Step 74: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6154  
 Step 75: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5359  
 Step 76: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4564  
 Step 77: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3769  
 Step 78: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 7.2975  
 Step 79: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2181  
 Step 80: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1389  
 Step 81: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0597  
 Step 82: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9806  
 Step 83: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9017  
 Step 84: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8228  
 Step 85: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7442  
 Step 86: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6656  
 Step 87: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5872  
 Step 88: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5090  
 Step 89: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4310  
 Step 90: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3532  
 Step 91: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2756  
 Step 92: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1982  
 Step 93: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1210  
 Step 94: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0440  
 Step 95: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9673  
 Step 96: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8908  
 Step 97: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8145  
 Step 98: Loss: 0.0287, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7386  
 Step 99: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6629  
 Step 100: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5875  
 Step 101: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5124  
 Step 102: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.4376  
 Step 103: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3632  
 Step 104: Loss: 0.0265, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2891  
 Step 105: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2153  
 Step 106: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1420  
 Step 107: Loss: 0.0254, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0690  
 Step 108: Loss: 0.0251, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9965  
 Step 109: Loss: 0.0247, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9244  
 Step 110: Loss: 0.0244, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8528  
 Step 111: Loss: 0.0241, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7817  
 Step 112: Loss: 0.0237, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7112  
 Step 113: Loss: 0.0234, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6413  
 Step 114: Loss: 0.0231, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5720  
 Step 115: Loss: 0.0228, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5034  
 Step 116: Loss: 0.0225, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4355  
 Step 117: Loss: 0.0222, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3685  
 Step 118: Loss: 0.0219, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3023  
 Step 119: Loss: 0.0217, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.2372  
 Step 120: Loss: 0.0214, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1731  
 Step 121: Loss: 0.0212, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1102  
 Step 122: Loss: 0.0209, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.0485  
 Step 123: Loss: 0.0207, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.9883  
 Step 124: Loss: 0.0205, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.9296  
 Step 125: Loss: 0.0203, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.8726  
 Step 126: Loss: 0.0202, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0011, Distance: 3.8175  
 Step 127: Loss: 0.0200, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.7644  
 Step 128: Loss: 0.0199, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.7135  
 Step 129: Loss: 0.0198, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.6650  
 Step 130: Loss: 0.0197, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.6191  
 Step 131: Loss: 0.0196, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.5759  
 Step 132: Loss: 0.0196, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.5356  
 Step 133: Loss: 0.0195, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4985  
 Step 134: Loss: 0.0195, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4646  
 Step 135: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4341  
 Step 136: Loss: 0.0194, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4070  
 Step 137: Loss: 0.0194, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3834  
 Step 138: Loss: 0.0194, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3634  
 Step 139: Loss: 0.0194, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3467  
 Step 140: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3335  
 Step 141: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3234  
 Step 142: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3163  
 Step 143: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3120  
 Step 144: Loss: 0.0192, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3102  
 Step 145: Loss: 0.0192, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3105  
 Step 146: Loss: 0.0192, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3126  
 Step 147: Loss: 0.0192, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3162  
 Step 148: Loss: 0.0191, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3210  
 Step 149: Loss: 0.0191, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3266  
 Step 150: Loss: 0.0191, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0024, Distance: 3.3328  
 Step 151: Loss: 0.0191, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3392  
 Step 152: Loss: 0.0190, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3457  
 Step 153: Loss: 0.0190, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3520  
 Step 154: Loss: 0.0190, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3579  
 Step 155: Loss: 0.0190, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3632  
 Step 156: Loss: 0.0190, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3679  
 Step 157: Loss: 0.0190, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3719  
 Step 158: Loss: 0.0190, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3750  
 Step 159: Loss: 0.0190, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3773  
 Step 160: Loss: 0.0189, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3788  
 Step 161: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3794  
 Step 162: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3792  
 Step 163: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3783  
 Step 164: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3766  
 Step 165: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3743  
 Step 166: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3714  
 Step 167: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3680  
 Step 168: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3642  
 Step 169: Loss: 0.0189, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3601  
 Step 170: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3557  
 Step 171: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3512  
 Step 172: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3466  
 Step 173: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3419  
 Step 174: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0021, Distance: 3.2937  
 Step 199: Loss: 0.0186, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2934  
 Step 00: Loss: 1.2428, Total Entropy: 1.2428, Epistemic Entropy: 0.0189,  
 Aleatoric Entropy: 1.2240, Distance: 0.0000  
 Step 01: Loss: 0.3121, Total Entropy: 0.3041, Epistemic Entropy: 0.0034,  
 Aleatoric Entropy: 0.3007, Distance: 1.6000  
 Step 02: Loss: 0.0428, Total Entropy: 0.0285, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0281, Distance: 2.8741  
 Step 03: Loss: 0.0233, Total Entropy: 0.0035, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0035, Distance: 3.9569  
 Step 04: Loss: 0.0249, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8554  
 Step 05: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6123  
 Step 06: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2589  
 Step 07: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8168  
 Step 08: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3015  
 Step 09: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7245  
 Step 10: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0946  
 Step 11: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4189  
 Step 12: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7032  
 Step 13: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9520  
 Step 14: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1695  
 Step 15: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3589  
 Step 16: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5232  
 Step 17: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6648  
 Step 18: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7860  
 Step 19: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8887  
 Step 20: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9747  
 Step 21: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0454  
 Step 22: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.1023  
 Step 23: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1466  
 Step 24: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1794  
 Step 25: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2017  
 Step 26: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2144  
 Step 27: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2184  
 Step 28: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2144  
 Step 29: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2030  
 Step 30: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1850  
 Step 31: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1609  
 Step 32: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1312  
 Step 33: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0964  
 Step 34: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0569  
 Step 35: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0132  
 Step 36: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9655  
 Step 37: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9143  
 Step 38: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8599  
 Step 39: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8024  
 Step 40: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7423  
 Step 41: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6797  
 Step 42: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6148  
 Step 43: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5480  
 Step 44: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4792  
 Step 45: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4088  
 Step 46: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3368  
 Step 47: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2634  
 Step 48: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1888  
 Step 49: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1130  
 Step 50: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0363  
 Step 51: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9586  
 Step 52: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8801  
 Step 53: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8008  
 Step 54: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7209  
 Step 55: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6405  
 Step 56: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5595  
 Step 57: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4780  
 Step 58: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3962  
 Step 59: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3141  
 Step 60: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2316  
 Step 61: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1490  
 Step 62: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0661  
 Step 63: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9831  
 Step 64: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8999  
 Step 65: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8167  
 Step 66: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7334  
 Step 67: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6501  
 Step 68: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5668  
 Step 69: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4835  
 Step 70: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 7.4002  
 Step 71: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3170  
 Step 72: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2339  
 Step 73: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1509  
 Step 74: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0680  
 Step 75: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9853  
 Step 76: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9027  
 Step 77: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8202  
 Step 78: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7380  
 Step 79: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6559  
 Step 80: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5740  
 Step 81: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4924  
 Step 82: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4110  
 Step 83: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3298  
 Step 84: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2488  
 Step 85: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1682  
 Step 86: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0877  
 Step 87: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0076  
 Step 88: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9278  
 Step 89: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8482  
 Step 90: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7690  
 Step 91: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6900  
 Step 92: Loss: 0.0281, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6114  
 Step 93: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5332  
 Step 94: Loss: 0.0273, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.4553  
Step 95: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.3778  
Step 96: Loss: 0.0265, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.3006  
Step 97: Loss: 0.0262, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.2238  
Step 98: Loss: 0.0258, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.1475  
Step 99: Loss: 0.0254, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.0715  
Step 100: Loss: 0.0250, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.9960  
Step 101: Loss: 0.0247, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.9210  
Step 102: Loss: 0.0243, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.8464  
Step 103: Loss: 0.0240, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.7723  
Step 104: Loss: 0.0236, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.6988  
Step 105: Loss: 0.0232, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.6258  
Step 106: Loss: 0.0229, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.5534  
Step 107: Loss: 0.0226, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.4816  
Step 108: Loss: 0.0222, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.4105  
Step 109: Loss: 0.0219, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.3401  
Step 110: Loss: 0.0216, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.2704  
Step 111: Loss: 0.0213, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 4.2016  
Step 112: Loss: 0.0210, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 4.1336  
Step 113: Loss: 0.0207, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 4.0666  
Step 114: Loss: 0.0204, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 4.0006  
Step 115: Loss: 0.0202, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0005, Distance: 3.9357  
Step 116: Loss: 0.0199, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0006, Distance: 3.8720  
Step 117: Loss: 0.0197, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0006, Distance: 3.8097  
Step 118: Loss: 0.0195, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0007, Distance: 3.7488  
 Step 119: Loss: 0.0193, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.6895  
 Step 120: Loss: 0.0191, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.6320  
 Step 121: Loss: 0.0189, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.5763  
 Step 122: Loss: 0.0188, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.5227  
 Step 123: Loss: 0.0187, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.4713  
 Step 124: Loss: 0.0186, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.4223  
 Step 125: Loss: 0.0185, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.3760  
 Step 126: Loss: 0.0184, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.3324  
 Step 127: Loss: 0.0183, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.2917  
 Step 128: Loss: 0.0183, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.2542  
 Step 129: Loss: 0.0182, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.2200  
 Step 130: Loss: 0.0182, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1891  
 Step 131: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.1617  
 Step 132: Loss: 0.0181, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1378  
 Step 133: Loss: 0.0181, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.1174  
 Step 134: Loss: 0.0181, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.1004  
 Step 135: Loss: 0.0181, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.0868  
 Step 136: Loss: 0.0180, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.0763  
 Step 137: Loss: 0.0180, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.0688  
 Step 138: Loss: 0.0180, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.0640  
 Step 139: Loss: 0.0179, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.0617  
 Step 140: Loss: 0.0179, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.0615  
 Step 141: Loss: 0.0179, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.0630  
 Step 142: Loss: 0.0179, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 3.0660  
 Step 143: Loss: 0.0178, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.0701  
 Step 144: Loss: 0.0178, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.0750  
 Step 145: Loss: 0.0178, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.0804  
 Step 146: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.0861  
 Step 147: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.0917  
 Step 148: Loss: 0.0177, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0971  
 Step 149: Loss: 0.0177, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1021  
 Step 150: Loss: 0.0177, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1065  
 Step 151: Loss: 0.0177, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1103  
 Step 152: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1133  
 Step 153: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1156  
 Step 154: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1171  
 Step 155: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1178  
 Step 156: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1177  
 Step 157: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1169  
 Step 158: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1155  
 Step 159: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1134  
 Step 160: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1107  
 Step 161: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1076  
 Step 162: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1041  
 Step 163: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1003  
 Step 164: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.0962  
 Step 165: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.0921  
 Step 166: Loss: 0.0176, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0022, Distance: 3.0430  
 Step 191: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0429  
 Step 192: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0427  
 Step 193: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0425  
 Step 194: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0421  
 Step 195: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0417  
 Step 196: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0413  
 Step 197: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.0407  
 Step 198: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.0401  
 Step 199: Loss: 0.0174, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.0394  
 Step 00: Loss: 1.2369, Total Entropy: 1.2369, Epistemic Entropy: 0.0399,  
 Aleatoric Entropy: 1.1970, Distance: 0.0000  
 Step 01: Loss: 0.3706, Total Entropy: 0.3626, Epistemic Entropy: 0.0103,  
 Aleatoric Entropy: 0.3523, Distance: 1.6000  
 Step 02: Loss: 0.0532, Total Entropy: 0.0387, Epistemic Entropy: 0.0011,  
 Aleatoric Entropy: 0.0376, Distance: 2.8991  
 Step 03: Loss: 0.0252, Total Entropy: 0.0051, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0049, Distance: 4.0169  
 Step 04: Loss: 0.0257, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.9449  
 Step 05: Loss: 0.0289, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.7254  
 Step 06: Loss: 0.0320, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3908  
 Step 07: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9637  
 Step 08: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4603  
 Step 09: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8926  
 Step 10: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2699  
 Step 11: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5996  
 Step 12: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8878  
 Step 13: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1393  
 Step 14: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3584  
 Step 15: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5484  
 Step 16: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7125  
 Step 17: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8534  
 Step 18: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9732  
 Step 19: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0742  
 Step 20: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1580  
 Step 21: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2262  
 Step 22: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2804  
 Step 23: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3217  
 Step 24: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3515  
 Step 25: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3706  
 Step 26: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3801  
 Step 27: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3808  
 Step 28: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3735  
 Step 29: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3589  
 Step 30: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3376  
 Step 31: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3103  
 Step 32: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2774  
 Step 33: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2395  
 Step 34: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1970  
 Step 35: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1504  
 Step 36: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0998  
 Step 37: Loss: 0.0502, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0459  
 Step 38: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.9887  
 Step 39: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9287  
 Step 40: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8660  
 Step 41: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8009  
 Step 42: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7337  
 Step 43: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6645  
 Step 44: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5935  
 Step 45: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5209  
 Step 46: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4469  
 Step 47: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3715  
 Step 48: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2949  
 Step 49: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2172  
 Step 50: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1386  
 Step 51: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0590  
 Step 52: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9788  
 Step 53: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8978  
 Step 54: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8162  
 Step 55: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7340  
 Step 56: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6513  
 Step 57: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5683  
 Step 58: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4848  
 Step 59: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4010  
 Step 60: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3169  
 Step 61: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2326  
 Step 62: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.1481  
 Step 63: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0634  
 Step 64: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9786  
 Step 65: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8936  
 Step 66: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8086  
 Step 67: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7235  
 Step 68: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6383  
 Step 69: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5532  
 Step 70: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4680  
 Step 71: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3829  
 Step 72: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2977  
 Step 73: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2127  
 Step 74: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1276  
 Step 75: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0427  
 Step 76: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9578  
 Step 77: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8731  
 Step 78: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7884  
 Step 79: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7039  
 Step 80: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6195  
 Step 81: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5353  
 Step 82: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4512  
 Step 83: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3672  
 Step 84: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2835  
 Step 85: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2000  
 Step 86: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1166  
 Step 87: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0335  
 Step 88: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9506  
 Step 89: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8680  
 Step 90: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7856  
 Step 91: Loss: 0.0286, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7036  
 Step 92: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6218  
 Step 93: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5404  
 Step 94: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4594  
 Step 95: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3787  
 Step 96: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2985  
 Step 97: Loss: 0.0263, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2188  
 Step 98: Loss: 0.0259, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1396  
 Step 99: Loss: 0.0255, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0609  
 Step 100: Loss: 0.0252, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9829  
 Step 101: Loss: 0.0248, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9056  
 Step 102: Loss: 0.0245, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8290  
 Step 103: Loss: 0.0242, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.7532  
 Step 104: Loss: 0.0238, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6784  
 Step 105: Loss: 0.0235, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.6047  
 Step 106: Loss: 0.0232, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5320  
 Step 107: Loss: 0.0229, Total Entropy: 0.0006, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0006, Distance: 4.4607  
 Step 108: Loss: 0.0227, Total Entropy: 0.0007, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 4.3907  
 Step 109: Loss: 0.0224, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 4.3223  
 Step 110: Loss: 0.0222, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0008, Distance: 4.2556  
 Step 111: Loss: 0.0220, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 4.1909  
 Step 112: Loss: 0.0218, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 4.1282  
 Step 113: Loss: 0.0216, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 4.0678  
 Step 114: Loss: 0.0214, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 4.0098  
 Step 115: Loss: 0.0213, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.9546  
 Step 116: Loss: 0.0211, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.9022  
 Step 117: Loss: 0.0210, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.8529  
 Step 118: Loss: 0.0209, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.8069  
 Step 119: Loss: 0.0208, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.7642  
 Step 120: Loss: 0.0208, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.7251  
 Step 121: Loss: 0.0207, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6896  
 Step 122: Loss: 0.0207, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.6578  
 Step 123: Loss: 0.0207, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.6297  
 Step 124: Loss: 0.0206, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6053  
 Step 125: Loss: 0.0206, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.5846  
 Step 126: Loss: 0.0206, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.5674  
 Step 127: Loss: 0.0206, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5537  
 Step 128: Loss: 0.0206, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5432  
 Step 129: Loss: 0.0206, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5358  
 Step 130: Loss: 0.0206, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5312  
 Step 131: Loss: 0.0205, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5292  
 Step 132: Loss: 0.0205, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5295  
 Step 133: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5318  
 Step 134: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0027, Distance: 3.5358  
 Step 135: Loss: 0.0205, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.5411  
 Step 136: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.5475  
 Step 137: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.5547  
 Step 138: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5623  
 Step 139: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5702  
 Step 140: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5780  
 Step 141: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5855  
 Step 142: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5927  
 Step 143: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5992  
 Step 144: Loss: 0.0204, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.6051  
 Step 145: Loss: 0.0204, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.6102  
 Step 146: Loss: 0.0204, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6145  
 Step 147: Loss: 0.0204, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6179  
 Step 148: Loss: 0.0204, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6204  
 Step 149: Loss: 0.0204, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6221  
 Step 150: Loss: 0.0204, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6230  
 Step 151: Loss: 0.0204, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6231  
 Step 152: Loss: 0.0204, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6225  
 Step 153: Loss: 0.0204, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6213  
 Step 154: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6196  
 Step 155: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6174  
 Step 156: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6148  
 Step 157: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.6120  
 Step 158: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0024, Distance: 3.5816  
 Step 183: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5825  
 Step 184: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5834  
 Step 185: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5842  
 Step 186: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5850  
 Step 187: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5857  
 Step 188: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5864  
 Step 189: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5869  
 Step 190: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5873  
 Step 191: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5877  
 Step 192: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5880  
 Step 193: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5881  
 Step 194: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5882  
 Step 195: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5882  
 Step 196: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5882  
 Step 197: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5881  
 Step 198: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5879  
 Step 199: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5877  
 Step 00: Loss: 1.0894, Total Entropy: 1.0894, Epistemic Entropy: 0.1493,  
 Aleatoric Entropy: 0.9402, Distance: 0.0000  
 Step 01: Loss: 0.3781, Total Entropy: 0.3701, Epistemic Entropy: 0.0454,  
 Aleatoric Entropy: 0.3247, Distance: 1.6000  
 Step 02: Loss: 0.0532, Total Entropy: 0.0391, Epistemic Entropy: 0.0022,  
 Aleatoric Entropy: 0.0369, Distance: 2.8084  
 Step 03: Loss: 0.0238, Total Entropy: 0.0044, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0042, Distance: 3.8824  
 Step 04: Loss: 0.0246, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7815  
 Step 05: Loss: 0.0279, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5398  
 Step 06: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1867  
 Step 07: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7435  
 Step 08: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2257  
 Step 09: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6450  
 Step 10: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0102  
 Step 11: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3286  
 Step 12: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6060  
 Step 13: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8472  
 Step 14: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0563  
 Step 15: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2367  
 Step 16: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3914  
 Step 17: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5231  
 Step 18: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6339  
 Step 19: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7259  
 Step 20: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8009  
 Step 21: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8604  
 Step 22: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9060  
 Step 23: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9388  
 Step 24: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9600  
 Step 25: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9707  
 Step 26: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9718  
 Step 27: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9642  
 Step 28: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9486  
 Step 29: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9258  
 Step 30: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.8964  
 Step 31: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8610  
 Step 32: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8201  
 Step 33: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7743  
 Step 34: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7239  
 Step 35: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6694  
 Step 36: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6112  
 Step 37: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5495  
 Step 38: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4848  
 Step 39: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4172  
 Step 40: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3471  
 Step 41: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2747  
 Step 42: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2002  
 Step 43: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1238  
 Step 44: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0457  
 Step 45: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9660  
 Step 46: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8849  
 Step 47: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8025  
 Step 48: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7190  
 Step 49: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6345  
 Step 50: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5490  
 Step 51: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4627  
 Step 52: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3757  
 Step 53: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2880  
 Step 54: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.1997  
 Step 55: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1109  
 Step 56: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0216  
 Step 57: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9319  
 Step 58: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8419  
 Step 59: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7516  
 Step 60: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6610  
 Step 61: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5702  
 Step 62: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4792  
 Step 63: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3881  
 Step 64: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2969  
 Step 65: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2057  
 Step 66: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1144  
 Step 67: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0230  
 Step 68: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9317  
 Step 69: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8405  
 Step 70: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7493  
 Step 71: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6582  
 Step 72: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5673  
 Step 73: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4764  
 Step 74: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3858  
 Step 75: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2953  
 Step 76: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2050  
 Step 77: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1150  
 Step 78: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.0252  
 Step 79: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9357  
 Step 80: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8465  
 Step 81: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7575  
 Step 82: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6690  
 Step 83: Loss: 0.0279, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5808  
 Step 84: Loss: 0.0275, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4929  
 Step 85: Loss: 0.0271, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4055  
 Step 86: Loss: 0.0266, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3185  
 Step 87: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2320  
 Step 88: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1459  
 Step 89: Loss: 0.0254, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0604  
 Step 90: Loss: 0.0250, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9755  
 Step 91: Loss: 0.0246, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8911  
 Step 92: Loss: 0.0242, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8073  
 Step 93: Loss: 0.0238, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7243  
 Step 94: Loss: 0.0234, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6419  
 Step 95: Loss: 0.0230, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5604  
 Step 96: Loss: 0.0226, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4797  
 Step 97: Loss: 0.0223, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4000  
 Step 98: Loss: 0.0219, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3213  
 Step 99: Loss: 0.0216, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2438  
 Step 100: Loss: 0.0213, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1675  
 Step 101: Loss: 0.0210, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0926  
 Step 102: Loss: 0.0207, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0006, Distance: 4.0193  
 Step 103: Loss: 0.0204, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.9478  
 Step 104: Loss: 0.0202, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.8782  
 Step 105: Loss: 0.0200, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.8108  
 Step 106: Loss: 0.0198, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.7459  
 Step 107: Loss: 0.0197, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.6838  
 Step 108: Loss: 0.0195, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.6246  
 Step 109: Loss: 0.0194, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.5689  
 Step 110: Loss: 0.0194, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.5168  
 Step 111: Loss: 0.0193, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.4688  
 Step 112: Loss: 0.0193, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4252  
 Step 113: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3862  
 Step 114: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3521  
 Step 115: Loss: 0.0192, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3231  
 Step 116: Loss: 0.0192, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2992  
 Step 117: Loss: 0.0192, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2804  
 Step 118: Loss: 0.0192, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2667  
 Step 119: Loss: 0.0192, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2577  
 Step 120: Loss: 0.0191, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2532  
 Step 121: Loss: 0.0191, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2527  
 Step 122: Loss: 0.0191, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2557  
 Step 123: Loss: 0.0190, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2617  
 Step 124: Loss: 0.0190, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2700  
 Step 125: Loss: 0.0190, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2802  
 Step 126: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0024, Distance: 3.2916  
 Step 127: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3037  
 Step 128: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3160  
 Step 129: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3281  
 Step 130: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3397  
 Step 131: Loss: 0.0189, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3503  
 Step 132: Loss: 0.0189, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3599  
 Step 133: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.3682  
 Step 134: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.3752  
 Step 135: Loss: 0.0189, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3807  
 Step 136: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3847  
 Step 137: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3874  
 Step 138: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3886  
 Step 139: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3886  
 Step 140: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3874  
 Step 141: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3852  
 Step 142: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3821  
 Step 143: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3782  
 Step 144: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3738  
 Step 145: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3689  
 Step 146: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.3637  
 Step 147: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.3584  
 Step 148: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.3530  
 Step 149: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3478  
 Step 150: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,



[illegible]

Aleatoric Entropy: 0.0021, Distance: 3.3306  
 Step 199: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3306  
 Step 00: Loss: 1.0894, Total Entropy: 1.0894, Epistemic Entropy: 0.1659,  
 Aleatoric Entropy: 0.9235, Distance: 0.0000  
 Step 01: Loss: 0.5571, Total Entropy: 0.5491, Epistemic Entropy: 0.1023,  
 Aleatoric Entropy: 0.4468, Distance: 1.6000  
 Step 02: Loss: 0.1134, Total Entropy: 0.0999, Epistemic Entropy: 0.0164,  
 Aleatoric Entropy: 0.0835, Distance: 2.6913  
 Step 03: Loss: 0.0275, Total Entropy: 0.0087, Epistemic Entropy: 0.0009,  
 Aleatoric Entropy: 0.0079, Distance: 3.7593  
 Step 04: Loss: 0.0244, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 4.6878  
 Step 05: Loss: 0.0276, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4822  
 Step 06: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1656  
 Step 07: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7576  
 Step 08: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2730  
 Step 09: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7234  
 Step 10: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1179  
 Step 11: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4638  
 Step 12: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7670  
 Step 13: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0324  
 Step 14: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2642  
 Step 15: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4660  
 Step 16: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6409  
 Step 17: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7915  
 Step 18: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9201  
 Step 19: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0290  
 Step 20: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1198  
 Step 21: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1943  
 Step 22: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.2539  
 Step 23: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2999  
 Step 24: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3335  
 Step 25: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3559  
 Step 26: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3680  
 Step 27: Loss: 0.0519, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3706  
 Step 28: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3647  
 Step 29: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3509  
 Step 30: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3299  
 Step 31: Loss: 0.0515, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3023  
 Step 32: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2688  
 Step 33: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2297  
 Step 34: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1856  
 Step 35: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1370  
 Step 36: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0841  
 Step 37: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0275  
 Step 38: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9673  
 Step 39: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9040  
 Step 40: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8378  
 Step 41: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7690  
 Step 42: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6977  
 Step 43: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6243  
 Step 44: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5489  
 Step 45: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4717  
 Step 46: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.3929  
 Step 47: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3126  
 Step 48: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2310  
 Step 49: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1482  
 Step 50: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0644  
 Step 51: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9796  
 Step 52: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8939  
 Step 53: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8075  
 Step 54: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7204  
 Step 55: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6327  
 Step 56: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5444  
 Step 57: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4558  
 Step 58: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3667  
 Step 59: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2773  
 Step 60: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1876  
 Step 61: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0976  
 Step 62: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0075  
 Step 63: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9173  
 Step 64: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8269  
 Step 65: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7364  
 Step 66: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6459  
 Step 67: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5553  
 Step 68: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4648  
 Step 69: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3743  
 Step 70: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.2839  
 Step 71: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1935  
 Step 72: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1033  
 Step 73: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0131  
 Step 74: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9231  
 Step 75: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8333  
 Step 76: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7436  
 Step 77: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6540  
 Step 78: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5647  
 Step 79: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4756  
 Step 80: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3866  
 Step 81: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2979  
 Step 82: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2094  
 Step 83: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1212  
 Step 84: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0332  
 Step 85: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9454  
 Step 86: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8579  
 Step 87: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7707  
 Step 88: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6838  
 Step 89: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5972  
 Step 90: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5108  
 Step 91: Loss: 0.0271, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4248  
 Step 92: Loss: 0.0267, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3391  
 Step 93: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2538  
 Step 94: Loss: 0.0259, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.1688  
 Step 95: Loss: 0.0255, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0842  
 Step 96: Loss: 0.0251, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0000  
 Step 97: Loss: 0.0246, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9162  
 Step 98: Loss: 0.0242, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8329  
 Step 99: Loss: 0.0239, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7502  
 Step 100: Loss: 0.0235, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6679  
 Step 101: Loss: 0.0231, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5863  
 Step 102: Loss: 0.0227, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5054  
 Step 103: Loss: 0.0223, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4252  
 Step 104: Loss: 0.0220, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.3459  
 Step 105: Loss: 0.0217, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.2676  
 Step 106: Loss: 0.0213, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1904  
 Step 107: Loss: 0.0210, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1144  
 Step 108: Loss: 0.0207, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0398  
 Step 109: Loss: 0.0205, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.9669  
 Step 110: Loss: 0.0202, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 3.8959  
 Step 111: Loss: 0.0200, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 3.8270  
 Step 112: Loss: 0.0198, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.7605  
 Step 113: Loss: 0.0197, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.6968  
 Step 114: Loss: 0.0195, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.6362  
 Step 115: Loss: 0.0194, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.5791  
 Step 116: Loss: 0.0193, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.5260  
 Step 117: Loss: 0.0193, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.4770  
 Step 118: Loss: 0.0192, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0019, Distance: 3.4327  
 Step 119: Loss: 0.0192, Total Entropy: 0.0022, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0021, Distance: 3.3934  
 Step 120: Loss: 0.0192, Total Entropy: 0.0024, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0022, Distance: 3.3592  
 Step 121: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0023, Distance: 3.3305  
 Step 122: Loss: 0.0191, Total Entropy: 0.0026, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0024, Distance: 3.3072  
 Step 123: Loss: 0.0191, Total Entropy: 0.0027, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0025, Distance: 3.2893  
 Step 124: Loss: 0.0191, Total Entropy: 0.0027, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0025, Distance: 3.2767  
 Step 125: Loss: 0.0191, Total Entropy: 0.0027, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0025, Distance: 3.2690  
 Step 126: Loss: 0.0190, Total Entropy: 0.0027, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0025, Distance: 3.2658  
 Step 127: Loss: 0.0190, Total Entropy: 0.0027, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0025, Distance: 3.2668  
 Step 128: Loss: 0.0190, Total Entropy: 0.0026, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0024, Distance: 3.2711  
 Step 129: Loss: 0.0189, Total Entropy: 0.0025, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0024, Distance: 3.2783  
 Step 130: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2877  
 Step 131: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2987  
 Step 132: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3105  
 Step 133: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3228  
 Step 134: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3348  
 Step 135: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3463  
 Step 136: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3569  
 Step 137: Loss: 0.0188, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.3662  
 Step 138: Loss: 0.0188, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.3741  
 Step 139: Loss: 0.0187, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.3804  
 Step 140: Loss: 0.0187, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.3851  
 Step 141: Loss: 0.0187, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.3881  
 Step 142: Loss: 0.0187, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,

[illegible]

[illegible]

Aleatoric Entropy: 0.0019, Distance: 3.3259  
 Step 191: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3251  
 Step 192: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3243  
 Step 193: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3236  
 Step 194: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3230  
 Step 195: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3225  
 Step 196: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3221  
 Step 197: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3219  
 Step 198: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3217  
 Step 199: Loss: 0.0187, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3216  
 Step 00: Loss: 1.0749, Total Entropy: 1.0749, Epistemic Entropy: 0.0712,  
 Aleatoric Entropy: 1.0037, Distance: 0.0000  
 Step 01: Loss: 0.4993, Total Entropy: 0.4913, Epistemic Entropy: 0.0246,  
 Aleatoric Entropy: 0.4668, Distance: 1.6000  
 Step 02: Loss: 0.0748, Total Entropy: 0.0616, Epistemic Entropy: 0.0021,  
 Aleatoric Entropy: 0.0595, Distance: 2.6459  
 Step 03: Loss: 0.0253, Total Entropy: 0.0070, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0068, Distance: 3.6631  
 Step 04: Loss: 0.0238, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.5385  
 Step 05: Loss: 0.0267, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2856  
 Step 06: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9277  
 Step 07: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4837  
 Step 08: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9677  
 Step 09: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3909  
 Step 10: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7618  
 Step 11: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0871  
 Step 12: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3727  
 Step 13: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6231  
 Step 14: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8424  
Step 15: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0338  
Step 16: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2003  
Step 17: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3444  
Step 18: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4683  
Step 19: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5740  
Step 20: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6632  
Step 21: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7374  
Step 22: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7981  
Step 23: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8465  
Step 24: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8836  
Step 25: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9106  
Step 26: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9283  
Step 27: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9375  
Step 28: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9391  
Step 29: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9336  
Step 30: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9216  
Step 31: Loss: 0.0495, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.9039  
Step 32: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8808  
Step 33: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8528  
Step 34: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8204  
Step 35: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7839  
Step 36: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7438  
Step 37: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7002  
Step 38: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.6536  
 Step 39: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6041  
 Step 40: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5521  
 Step 41: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4977  
 Step 42: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4411  
 Step 43: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3827  
 Step 44: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3224  
 Step 45: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2605  
 Step 46: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1971  
 Step 47: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1323  
 Step 48: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0664  
 Step 49: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9992  
 Step 50: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9311  
 Step 51: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8620  
 Step 52: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7921  
 Step 53: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7214  
 Step 54: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6500  
 Step 55: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5780  
 Step 56: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5054  
 Step 57: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4322  
 Step 58: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3586  
 Step 59: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2846  
 Step 60: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2101  
 Step 61: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1354  
 Step 62: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0603  
 Step 63: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9849  
 Step 64: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9093  
 Step 65: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8334  
 Step 66: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7574  
 Step 67: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6811  
 Step 68: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6048  
 Step 69: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5283  
 Step 70: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4517  
 Step 71: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3750  
 Step 72: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2982  
 Step 73: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2214  
 Step 74: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1445  
 Step 75: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0676  
 Step 76: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9906  
 Step 77: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9137  
 Step 78: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8368  
 Step 79: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7599  
 Step 80: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6831  
 Step 81: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6062  
 Step 82: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5295  
 Step 83: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4528  
 Step 84: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3761  
 Step 85: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2996  
 Step 86: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.2231  
 Step 87: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1468  
 Step 88: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0705  
 Step 89: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9944  
 Step 90: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9183  
 Step 91: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8425  
 Step 92: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7667  
 Step 93: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6911  
 Step 94: Loss: 0.0281, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6157  
 Step 95: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5405  
 Step 96: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4654  
 Step 97: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3906  
 Step 98: Loss: 0.0267, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3160  
 Step 99: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2416  
 Step 100: Loss: 0.0259, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1675  
 Step 101: Loss: 0.0256, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0937  
 Step 102: Loss: 0.0252, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0201  
 Step 103: Loss: 0.0249, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9470  
 Step 104: Loss: 0.0245, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8742  
 Step 105: Loss: 0.0242, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8018  
 Step 106: Loss: 0.0239, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7299  
 Step 107: Loss: 0.0236, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6586  
 Step 108: Loss: 0.0232, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5877  
 Step 109: Loss: 0.0229, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5176  
 Step 110: Loss: 0.0226, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 4.4481  
 Step 111: Loss: 0.0223, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3794  
 Step 112: Loss: 0.0221, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.3116  
 Step 113: Loss: 0.0218, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.2447  
 Step 114: Loss: 0.0215, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1790  
 Step 115: Loss: 0.0213, Total Entropy: 0.0007, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 4.1144  
 Step 116: Loss: 0.0211, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 4.0513  
 Step 117: Loss: 0.0209, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 3.9896  
 Step 118: Loss: 0.0207, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.9296  
 Step 119: Loss: 0.0205, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.8715  
 Step 120: Loss: 0.0203, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.8154  
 Step 121: Loss: 0.0202, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.7615  
 Step 122: Loss: 0.0201, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.7101  
 Step 123: Loss: 0.0200, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.6613  
 Step 124: Loss: 0.0199, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.6154  
 Step 125: Loss: 0.0198, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.5725  
 Step 126: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.5329  
 Step 127: Loss: 0.0197, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4967  
 Step 128: Loss: 0.0197, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4640  
 Step 129: Loss: 0.0196, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4350  
 Step 130: Loss: 0.0196, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4096  
 Step 131: Loss: 0.0196, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3880  
 Step 132: Loss: 0.0196, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3700  
 Step 133: Loss: 0.0196, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3556  
 Step 134: Loss: 0.0196, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0027, Distance: 3.3447  
 Step 135: Loss: 0.0196, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3370  
 Step 136: Loss: 0.0195, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3323  
 Step 137: Loss: 0.0195, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3304  
 Step 138: Loss: 0.0195, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3309  
 Step 139: Loss: 0.0195, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3335  
 Step 140: Loss: 0.0195, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3379  
 Step 141: Loss: 0.0195, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3437  
 Step 142: Loss: 0.0194, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3507  
 Step 143: Loss: 0.0194, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3584  
 Step 144: Loss: 0.0194, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3666  
 Step 145: Loss: 0.0194, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3750  
 Step 146: Loss: 0.0194, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3834  
 Step 147: Loss: 0.0194, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3915  
 Step 148: Loss: 0.0194, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3992  
 Step 149: Loss: 0.0194, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4063  
 Step 150: Loss: 0.0194, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4126  
 Step 151: Loss: 0.0194, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4182  
 Step 152: Loss: 0.0194, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4229  
 Step 153: Loss: 0.0194, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4267  
 Step 154: Loss: 0.0194, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4297  
 Step 155: Loss: 0.0194, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4317  
 Step 156: Loss: 0.0194, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4329  
 Step 157: Loss: 0.0194, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4333  
 Step 158: Loss: 0.0193, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0023, Distance: 3.3856  
 Step 183: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3860  
 Step 184: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3866  
 Step 185: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3873  
 Step 186: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3882  
 Step 187: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3890  
 Step 188: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3899  
 Step 189: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3909  
 Step 190: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3918  
 Step 191: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3926  
 Step 192: Loss: 0.0193, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3934  
 Step 193: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3942  
 Step 194: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3948  
 Step 195: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3954  
 Step 196: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3958  
 Step 197: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3962  
 Step 198: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3965  
 Step 199: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3967  
 Step 00: Loss: 1.0628, Total Entropy: 1.0628, Epistemic Entropy: 0.0965,  
 Aleatoric Entropy: 0.9662, Distance: 0.0000  
 Step 01: Loss: 0.3685, Total Entropy: 0.3605, Epistemic Entropy: 0.0308,  
 Aleatoric Entropy: 0.3297, Distance: 1.5999  
 Step 02: Loss: 0.0618, Total Entropy: 0.0477, Epistemic Entropy: 0.0043,  
 Aleatoric Entropy: 0.0435, Distance: 2.8036  
 Step 03: Loss: 0.0269, Total Entropy: 0.0075, Epistemic Entropy: 0.0007,  
 Aleatoric Entropy: 0.0068, Distance: 3.8736  
 Step 04: Loss: 0.0256, Total Entropy: 0.0018, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0016, Distance: 4.7749  
 Step 05: Loss: 0.0283, Total Entropy: 0.0006, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0005, Distance: 5.5383  
 Step 06: Loss: 0.0312, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 6.1921  
 Step 07: Loss: 0.0339, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7568  
 Step 08: Loss: 0.0363, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 7.2476  
 Step 09: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6760  
 Step 10: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0509  
 Step 11: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3793  
 Step 12: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6669  
 Step 13: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9186  
 Step 14: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1384  
 Step 15: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3298  
 Step 16: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4955  
 Step 17: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6383  
 Step 18: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7603  
 Step 19: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8636  
 Step 20: Loss: 0.0498, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9498  
 Step 21: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0207  
 Step 22: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0774  
 Step 23: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1215  
 Step 24: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1538  
 Step 25: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1756  
 Step 26: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1877  
 Step 27: Loss: 0.0510, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1909  
 Step 28: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1861  
 Step 29: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1739  
 Step 30: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 10.1549  
 Step 31: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1298  
 Step 32: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0990  
 Step 33: Loss: 0.0503, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0631  
 Step 34: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0225  
 Step 35: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9775  
 Step 36: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9286  
 Step 37: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8761  
 Step 38: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8203  
 Step 39: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7615  
 Step 40: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7000  
 Step 41: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6359  
 Step 42: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5695  
 Step 43: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5011  
 Step 44: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4307  
 Step 45: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3586  
 Step 46: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2850  
 Step 47: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2099  
 Step 48: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1335  
 Step 49: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0559  
 Step 50: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9773  
 Step 51: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8977  
 Step 52: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8172  
 Step 53: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7360  
 Step 54: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.6541  
 Step 55: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5715  
 Step 56: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4884  
 Step 57: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4049  
 Step 58: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3209  
 Step 59: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2365  
 Step 60: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1518  
 Step 61: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0669  
 Step 62: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9817  
 Step 63: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8963  
 Step 64: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8108  
 Step 65: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7251  
 Step 66: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6394  
 Step 67: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5536  
 Step 68: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4678  
 Step 69: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3819  
 Step 70: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2961  
 Step 71: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2103  
 Step 72: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1245  
 Step 73: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0389  
 Step 74: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9533  
 Step 75: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8678  
 Step 76: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7824  
 Step 77: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6972  
 Step 78: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.6122  
 Step 79: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5273  
 Step 80: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4426  
 Step 81: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3580  
 Step 82: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2737  
 Step 83: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1896  
 Step 84: Loss: 0.0306, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1058  
 Step 85: Loss: 0.0302, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.0222  
 Step 86: Loss: 0.0298, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9389  
 Step 87: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8558  
 Step 88: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7731  
 Step 89: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6906  
 Step 90: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6085  
 Step 91: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5268  
 Step 92: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4454  
 Step 93: Loss: 0.0270, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3645  
 Step 94: Loss: 0.0266, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2840  
 Step 95: Loss: 0.0262, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2039  
 Step 96: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1244  
 Step 97: Loss: 0.0255, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0454  
 Step 98: Loss: 0.0251, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.9671  
 Step 99: Loss: 0.0248, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8893  
 Step 100: Loss: 0.0244, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8123  
 Step 101: Loss: 0.0241, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.7361  
 Step 102: Loss: 0.0238, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 4.6607  
 Step 103: Loss: 0.0235, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5863  
 Step 104: Loss: 0.0232, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5130  
 Step 105: Loss: 0.0229, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.4407  
 Step 106: Loss: 0.0226, Total Entropy: 0.0007, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 4.3698  
 Step 107: Loss: 0.0223, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 4.3003  
 Step 108: Loss: 0.0221, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 4.2324  
 Step 109: Loss: 0.0219, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 4.1662  
 Step 110: Loss: 0.0217, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 4.1019  
 Step 111: Loss: 0.0215, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 4.0397  
 Step 112: Loss: 0.0213, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.9798  
 Step 113: Loss: 0.0212, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.9225  
 Step 114: Loss: 0.0211, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.8679  
 Step 115: Loss: 0.0210, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.8163  
 Step 116: Loss: 0.0209, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.7679  
 Step 117: Loss: 0.0208, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.7229  
 Step 118: Loss: 0.0208, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.6816  
 Step 119: Loss: 0.0208, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.6440  
 Step 120: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.6104  
 Step 121: Loss: 0.0207, Total Entropy: 0.0028, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.5808  
 Step 122: Loss: 0.0207, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0028, Distance: 3.5553  
 Step 123: Loss: 0.0207, Total Entropy: 0.0030, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0028, Distance: 3.5338  
 Step 124: Loss: 0.0207, Total Entropy: 0.0031, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0029, Distance: 3.5164  
 Step 125: Loss: 0.0207, Total Entropy: 0.0031, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.5029  
 Step 126: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,

Aleatoric Entropy: 0.0030, Distance: 3.4930  
 Step 127: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.4867  
 Step 128: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.4835  
 Step 129: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.4832  
 Step 130: Loss: 0.0206, Total Entropy: 0.0031, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.4853  
 Step 131: Loss: 0.0205, Total Entropy: 0.0031, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0029, Distance: 3.4896  
 Step 132: Loss: 0.0205, Total Entropy: 0.0030, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0029, Distance: 3.4957  
 Step 133: Loss: 0.0205, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5031  
 Step 134: Loss: 0.0205, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5115  
 Step 135: Loss: 0.0205, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.5205  
 Step 136: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.5299  
 Step 137: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.5393  
 Step 138: Loss: 0.0204, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5485  
 Step 139: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5573  
 Step 140: Loss: 0.0204, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5655  
 Step 141: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5729  
 Step 142: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5795  
 Step 143: Loss: 0.0204, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5852  
 Step 144: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5898  
 Step 145: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5935  
 Step 146: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5963  
 Step 147: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5980  
 Step 148: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5989  
 Step 149: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5989  
 Step 150: Loss: 0.0204, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,



[illegible]

Aleatoric Entropy: 0.0024, Distance: 3.5588  
 Step 199: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5585  
 Step 00: Loss: 1.0557, Total Entropy: 1.0557, Epistemic Entropy: 0.0208,  
 Aleatoric Entropy: 1.0348, Distance: 0.0000  
 Step 01: Loss: 0.1715, Total Entropy: 0.1635, Epistemic Entropy: 0.0029,  
 Aleatoric Entropy: 0.1606, Distance: 1.6000  
 Step 02: Loss: 0.0337, Total Entropy: 0.0190, Epistemic Entropy: 0.0006,  
 Aleatoric Entropy: 0.0184, Distance: 2.9503  
 Step 03: Loss: 0.0237, Total Entropy: 0.0036, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0034, Distance: 4.0242  
 Step 04: Loss: 0.0255, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 4.8994  
 Step 05: Loss: 0.0285, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.6299  
 Step 06: Loss: 0.0314, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2494  
 Step 07: Loss: 0.0340, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7804  
 Step 08: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2388  
 Step 09: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6362  
 Step 10: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9816  
 Step 11: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2821  
 Step 12: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5433  
 Step 13: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7701  
 Step 14: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9664  
 Step 15: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1355  
 Step 16: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2803  
 Step 17: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4033  
 Step 18: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5068  
 Step 19: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5926  
 Step 20: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6624  
 Step 21: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7178  
 Step 22: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.7601  
 Step 23: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7906  
 Step 24: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8103  
 Step 25: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8202  
 Step 26: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8212  
 Step 27: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8141  
 Step 28: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7997  
 Step 29: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7785  
 Step 30: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7512  
 Step 31: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7184  
 Step 32: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6805  
 Step 33: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6379  
 Step 34: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5912  
 Step 35: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5406  
 Step 36: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4865  
 Step 37: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4293  
 Step 38: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3691  
 Step 39: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3063  
 Step 40: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2411  
 Step 41: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1737  
 Step 42: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1043  
 Step 43: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0331  
 Step 44: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9603  
 Step 45: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8861  
 Step 46: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8105  
 Step 47: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7338  
 Step 48: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6560  
 Step 49: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5772  
 Step 50: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4976  
 Step 51: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4173  
 Step 52: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3364  
 Step 53: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2548  
 Step 54: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1728  
 Step 55: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0904  
 Step 56: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0076  
 Step 57: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9245  
 Step 58: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8412  
 Step 59: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7577  
 Step 60: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6740  
 Step 61: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5903  
 Step 62: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5064  
 Step 63: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4226  
 Step 64: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3387  
 Step 65: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2549  
 Step 66: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1711  
 Step 67: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0874  
 Step 68: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0038  
 Step 69: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9203  
 Step 70: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.8370  
 Step 71: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7539  
 Step 72: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6709  
 Step 73: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5882  
 Step 74: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5057  
 Step 75: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4234  
 Step 76: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3414  
 Step 77: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2597  
 Step 78: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1783  
 Step 79: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0971  
 Step 80: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0163  
 Step 81: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9358  
 Step 82: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8557  
 Step 83: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7759  
 Step 84: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6965  
 Step 85: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6174  
 Step 86: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5388  
 Step 87: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4606  
 Step 88: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3828  
 Step 89: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3055  
 Step 90: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2286  
 Step 91: Loss: 0.0259, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1523  
 Step 92: Loss: 0.0255, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0765  
 Step 93: Loss: 0.0252, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0012  
 Step 94: Loss: 0.0248, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.9265  
 Step 95: Loss: 0.0245, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8523  
 Step 96: Loss: 0.0241, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7789  
 Step 97: Loss: 0.0238, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7061  
 Step 98: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6340  
 Step 99: Loss: 0.0231, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5628  
 Step 100: Loss: 0.0228, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4923  
 Step 101: Loss: 0.0225, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.4228  
 Step 102: Loss: 0.0222, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3541  
 Step 103: Loss: 0.0219, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.2866  
 Step 104: Loss: 0.0217, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.2201  
 Step 105: Loss: 0.0214, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1549  
 Step 106: Loss: 0.0212, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.0910  
 Step 107: Loss: 0.0210, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.0285  
 Step 108: Loss: 0.0207, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.9675  
 Step 109: Loss: 0.0206, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.9083  
 Step 110: Loss: 0.0204, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.8508  
 Step 111: Loss: 0.0202, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.7954  
 Step 112: Loss: 0.0201, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.7421  
 Step 113: Loss: 0.0199, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.6912  
 Step 114: Loss: 0.0198, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.6427  
 Step 115: Loss: 0.0197, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.5970  
 Step 116: Loss: 0.0197, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.5541  
 Step 117: Loss: 0.0196, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.5141  
 Step 118: Loss: 0.0195, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0021, Distance: 3.4774  
 Step 119: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4439  
 Step 120: Loss: 0.0194, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4138  
 Step 121: Loss: 0.0194, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3870  
 Step 122: Loss: 0.0194, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3637  
 Step 123: Loss: 0.0194, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3437  
 Step 124: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3270  
 Step 125: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3134  
 Step 126: Loss: 0.0193, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3026  
 Step 127: Loss: 0.0193, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2946  
 Step 128: Loss: 0.0192, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2890  
 Step 129: Loss: 0.0192, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2856  
 Step 130: Loss: 0.0192, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2840  
 Step 131: Loss: 0.0192, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2840  
 Step 132: Loss: 0.0192, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2852  
 Step 133: Loss: 0.0192, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2875  
 Step 134: Loss: 0.0191, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2905  
 Step 135: Loss: 0.0191, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2940  
 Step 136: Loss: 0.0191, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2978  
 Step 137: Loss: 0.0191, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3018  
 Step 138: Loss: 0.0191, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3058  
 Step 139: Loss: 0.0191, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3096  
 Step 140: Loss: 0.0191, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3133  
 Step 141: Loss: 0.0191, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3166  
 Step 142: Loss: 0.0191, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0024, Distance: 3.3071  
 Step 191: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3072  
 Step 192: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3073  
 Step 193: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3074  
 Step 194: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3074  
 Step 195: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3075  
 Step 196: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3075  
 Step 197: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3075  
 Step 198: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3076  
 Step 199: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3076  
 Step 00: Loss: 1.0448, Total Entropy: 1.0448, Epistemic Entropy: 0.1279,  
 Aleatoric Entropy: 0.9170, Distance: 0.0000  
 Step 01: Loss: 0.2079, Total Entropy: 0.1999, Epistemic Entropy: 0.0275,  
 Aleatoric Entropy: 0.1724, Distance: 1.6000  
 Step 02: Loss: 0.0384, Total Entropy: 0.0239, Epistemic Entropy: 0.0027,  
 Aleatoric Entropy: 0.0212, Distance: 2.8963  
 Step 03: Loss: 0.0234, Total Entropy: 0.0037, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0033, Distance: 3.9489  
 Step 04: Loss: 0.0248, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 4.8128  
 Step 05: Loss: 0.0279, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5367  
 Step 06: Loss: 0.0308, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1527  
 Step 07: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6824  
 Step 08: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1413  
 Step 09: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5407  
 Step 10: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8894  
 Step 11: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1941  
 Step 12: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4604  
 Step 13: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6930  
 Step 14: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.8955  
Step 15: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0714  
Step 16: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2233  
Step 17: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3538  
Step 18: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4649  
Step 19: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5585  
Step 20: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6364  
Step 21: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6999  
Step 22: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7505  
Step 23: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7894  
Step 24: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8176  
Step 25: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8360  
Step 26: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8457  
Step 27: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8474  
Step 28: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8418  
Step 29: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8296  
Step 30: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.8113  
Step 31: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7875  
Step 32: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7587  
Step 33: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.7253  
Step 34: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6877  
Step 35: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6462  
Step 36: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.6013  
Step 37: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.5532  
Step 38: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.5021  
 Step 39: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4484  
 Step 40: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3922  
 Step 41: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3338  
 Step 42: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2734  
 Step 43: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2112  
 Step 44: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1472  
 Step 45: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0817  
 Step 46: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0148  
 Step 47: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9467  
 Step 48: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8773  
 Step 49: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8069  
 Step 50: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7355  
 Step 51: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6632  
 Step 52: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5902  
 Step 53: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5164  
 Step 54: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4419  
 Step 55: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3668  
 Step 56: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2912  
 Step 57: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2152  
 Step 58: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1387  
 Step 59: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0618  
 Step 60: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9846  
 Step 61: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9070  
 Step 62: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.8293  
 Step 63: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7513  
 Step 64: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6731  
 Step 65: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5947  
 Step 66: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5162  
 Step 67: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4376  
 Step 68: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3589  
 Step 69: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2802  
 Step 70: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2014  
 Step 71: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1225  
 Step 72: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0437  
 Step 73: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9649  
 Step 74: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8861  
 Step 75: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8074  
 Step 76: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7287  
 Step 77: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6502  
 Step 78: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5716  
 Step 79: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4932  
 Step 80: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4149  
 Step 81: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3368  
 Step 82: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2587  
 Step 83: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1808  
 Step 84: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1031  
 Step 85: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0255  
 Step 86: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.9481  
 Step 87: Loss: 0.0294, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8708  
 Step 88: Loss: 0.0290, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7938  
 Step 89: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7170  
 Step 90: Loss: 0.0282, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6403  
 Step 91: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5639  
 Step 92: Loss: 0.0275, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4877  
 Step 93: Loss: 0.0271, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4118  
 Step 94: Loss: 0.0267, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3361  
 Step 95: Loss: 0.0264, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2607  
 Step 96: Loss: 0.0260, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1856  
 Step 97: Loss: 0.0256, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1108  
 Step 98: Loss: 0.0253, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0363  
 Step 99: Loss: 0.0249, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9622  
 Step 100: Loss: 0.0246, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8884  
 Step 101: Loss: 0.0242, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8151  
 Step 102: Loss: 0.0239, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7422  
 Step 103: Loss: 0.0235, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6698  
 Step 104: Loss: 0.0232, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5979  
 Step 105: Loss: 0.0229, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5266  
 Step 106: Loss: 0.0226, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4559  
 Step 107: Loss: 0.0223, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3860  
 Step 108: Loss: 0.0220, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3168  
 Step 109: Loss: 0.0217, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2485  
 Step 110: Loss: 0.0214, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0005, Distance: 4.1812  
 Step 111: Loss: 0.0211, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1149  
 Step 112: Loss: 0.0209, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0499  
 Step 113: Loss: 0.0207, Total Entropy: 0.0007, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 3.9861  
 Step 114: Loss: 0.0205, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 3.9239  
 Step 115: Loss: 0.0203, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 3.8633  
 Step 116: Loss: 0.0201, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.8045  
 Step 117: Loss: 0.0199, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.7477  
 Step 118: Loss: 0.0198, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.6931  
 Step 119: Loss: 0.0197, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.6409  
 Step 120: Loss: 0.0196, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.5913  
 Step 121: Loss: 0.0195, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.5445  
 Step 122: Loss: 0.0194, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.5008  
 Step 123: Loss: 0.0194, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.4603  
 Step 124: Loss: 0.0193, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4232  
 Step 125: Loss: 0.0193, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3896  
 Step 126: Loss: 0.0193, Total Entropy: 0.0025, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0023, Distance: 3.3597  
 Step 127: Loss: 0.0192, Total Entropy: 0.0026, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0024, Distance: 3.3335  
 Step 128: Loss: 0.0192, Total Entropy: 0.0027, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0025, Distance: 3.3110  
 Step 129: Loss: 0.0192, Total Entropy: 0.0028, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0026, Distance: 3.2922  
 Step 130: Loss: 0.0192, Total Entropy: 0.0028, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.2770  
 Step 131: Loss: 0.0192, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.2654  
 Step 132: Loss: 0.0192, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.2571  
 Step 133: Loss: 0.0192, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.2518  
 Step 134: Loss: 0.0191, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,

Aleatoric Entropy: 0.0027, Distance: 3.2494  
 Step 135: Loss: 0.0191, Total Entropy: 0.0029, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.2496  
 Step 136: Loss: 0.0191, Total Entropy: 0.0028, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.2519  
 Step 137: Loss: 0.0191, Total Entropy: 0.0028, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0027, Distance: 3.2561  
 Step 138: Loss: 0.0191, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2618  
 Step 139: Loss: 0.0190, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2687  
 Step 140: Loss: 0.0190, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2765  
 Step 141: Loss: 0.0190, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2848  
 Step 142: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2933  
 Step 143: Loss: 0.0190, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3019  
 Step 144: Loss: 0.0190, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3102  
 Step 145: Loss: 0.0190, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3181  
 Step 146: Loss: 0.0190, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3254  
 Step 147: Loss: 0.0190, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3320  
 Step 148: Loss: 0.0190, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3379  
 Step 149: Loss: 0.0190, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3428  
 Step 150: Loss: 0.0190, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3469  
 Step 151: Loss: 0.0190, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3501  
 Step 152: Loss: 0.0190, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3524  
 Step 153: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3538  
 Step 154: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3545  
 Step 155: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3543  
 Step 156: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3535  
 Step 157: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3521  
 Step 158: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

[illegible]

Aleatoric Entropy: 0.0022, Distance: 3.3054  
 Step 183: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3061  
 Step 184: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3069  
 Step 185: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3077  
 Step 186: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3086  
 Step 187: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3095  
 Step 188: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3104  
 Step 189: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3112  
 Step 190: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3120  
 Step 191: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3128  
 Step 192: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3134  
 Step 193: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3140  
 Step 194: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3145  
 Step 195: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3148  
 Step 196: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3151  
 Step 197: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3153  
 Step 198: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3154  
 Step 199: Loss: 0.0189, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3154  
 Step 00: Loss: 1.0431, Total Entropy: 1.0431, Epistemic Entropy: 0.0579,  
 Aleatoric Entropy: 0.9852, Distance: 0.0000  
 Step 01: Loss: 0.1736, Total Entropy: 0.1656, Epistemic Entropy: 0.0066,  
 Aleatoric Entropy: 0.1589, Distance: 1.6000  
 Step 02: Loss: 0.0278, Total Entropy: 0.0133, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0129, Distance: 2.9045  
 Step 03: Loss: 0.0215, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.9611  
 Step 04: Loss: 0.0245, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8258  
 Step 05: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5490  
 Step 06: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 6.1634  
 Step 07: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6907  
 Step 08: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1465  
 Step 09: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5420  
 Step 10: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8860  
 Step 11: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1855  
 Step 12: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4459  
 Step 13: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6720  
 Step 14: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8677  
 Step 15: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0361  
 Step 16: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1802  
 Step 17: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3023  
 Step 18: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4048  
 Step 19: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4894  
 Step 20: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5579  
 Step 21: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6117  
 Step 22: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6523  
 Step 23: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6808  
 Step 24: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6983  
 Step 25: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7058  
 Step 26: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7042  
 Step 27: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6943  
 Step 28: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6769  
 Step 29: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6525  
 Step 30: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.6219  
 Step 31: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5856  
 Step 32: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5440  
 Step 33: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4977  
 Step 34: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4471  
 Step 35: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3925  
 Step 36: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3343  
 Step 37: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2729  
 Step 38: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2085  
 Step 39: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1415  
 Step 40: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0719  
 Step 41: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0002  
 Step 42: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9264  
 Step 43: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8509  
 Step 44: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7736  
 Step 45: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6949  
 Step 46: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6149  
 Step 47: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5337  
 Step 48: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4514  
 Step 49: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3681  
 Step 50: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2840  
 Step 51: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1992  
 Step 52: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1136  
 Step 53: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0275  
 Step 54: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.9409  
 Step 55: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8539  
 Step 56: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7666  
 Step 57: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6789  
 Step 58: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5910  
 Step 59: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5029  
 Step 60: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4146  
 Step 61: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3263  
 Step 62: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2379  
 Step 63: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1496  
 Step 64: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0612  
 Step 65: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9729  
 Step 66: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8847  
 Step 67: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7967  
 Step 68: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7088  
 Step 69: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6211  
 Step 70: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5335  
 Step 71: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4463  
 Step 72: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3592  
 Step 73: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2725  
 Step 74: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1860  
 Step 75: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0998  
 Step 76: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0139  
 Step 77: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9284  
 Step 78: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.8432  
 Step 79: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7584  
 Step 80: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6740  
 Step 81: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5899  
 Step 82: Loss: 0.0275, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5063  
 Step 83: Loss: 0.0271, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4230  
 Step 84: Loss: 0.0267, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3402  
 Step 85: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2578  
 Step 86: Loss: 0.0259, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1758  
 Step 87: Loss: 0.0255, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0943  
 Step 88: Loss: 0.0251, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0133  
 Step 89: Loss: 0.0247, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9327  
 Step 90: Loss: 0.0243, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8526  
 Step 91: Loss: 0.0239, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7731  
 Step 92: Loss: 0.0235, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.6940  
 Step 93: Loss: 0.0231, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6155  
 Step 94: Loss: 0.0227, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5375  
 Step 95: Loss: 0.0224, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4602  
 Step 96: Loss: 0.0220, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3834  
 Step 97: Loss: 0.0216, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3073  
 Step 98: Loss: 0.0213, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2318  
 Step 99: Loss: 0.0209, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1571  
 Step 100: Loss: 0.0206, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0831  
 Step 101: Loss: 0.0203, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0100  
 Step 102: Loss: 0.0199, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 3.9378  
 Step 103: Loss: 0.0196, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8665  
 Step 104: Loss: 0.0193, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7962  
 Step 105: Loss: 0.0190, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.7271  
 Step 106: Loss: 0.0188, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.6592  
 Step 107: Loss: 0.0185, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.5928  
 Step 108: Loss: 0.0183, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5278  
 Step 109: Loss: 0.0180, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.4646  
 Step 110: Loss: 0.0178, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.4032  
 Step 111: Loss: 0.0177, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.3438  
 Step 112: Loss: 0.0175, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.2867  
 Step 113: Loss: 0.0174, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.2321  
 Step 114: Loss: 0.0172, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.1802  
 Step 115: Loss: 0.0171, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.1313  
 Step 116: Loss: 0.0170, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.0856  
 Step 117: Loss: 0.0170, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0432  
 Step 118: Loss: 0.0169, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0045  
 Step 119: Loss: 0.0168, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.9695  
 Step 120: Loss: 0.0168, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9384  
 Step 121: Loss: 0.0167, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9111  
 Step 122: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8878  
 Step 123: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8682  
 Step 124: Loss: 0.0166, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8523  
 Step 125: Loss: 0.0166, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8398  
 Step 126: Loss: 0.0166, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0023, Distance: 2.8304  
 Step 127: Loss: 0.0165, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.8238  
 Step 128: Loss: 0.0165, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8197  
 Step 129: Loss: 0.0165, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8176  
 Step 130: Loss: 0.0165, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8173  
 Step 131: Loss: 0.0164, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8184  
 Step 132: Loss: 0.0164, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8205  
 Step 133: Loss: 0.0164, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8234  
 Step 134: Loss: 0.0164, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8267  
 Step 135: Loss: 0.0163, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8302  
 Step 136: Loss: 0.0163, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8338  
 Step 137: Loss: 0.0163, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8371  
 Step 138: Loss: 0.0163, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8402  
 Step 139: Loss: 0.0163, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8428  
 Step 140: Loss: 0.0163, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8449  
 Step 141: Loss: 0.0163, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8464  
 Step 142: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8473  
 Step 143: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8476  
 Step 144: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8473  
 Step 145: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8465  
 Step 146: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8451  
 Step 147: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8433  
 Step 148: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8411  
 Step 149: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8385  
 Step 150: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,



[illegible]



Aleatoric Entropy: 0.0020, Distance: 2.7697  
 Step 199: Loss: 0.0159, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.7689  
 Step 00: Loss: 1.0421, Total Entropy: 1.0421, Epistemic Entropy: 0.0509,  
 Aleatoric Entropy: 0.9912, Distance: 0.0000  
 Step 01: Loss: 0.1496, Total Entropy: 0.1416, Epistemic Entropy: 0.0052,  
 Aleatoric Entropy: 0.1364, Distance: 1.6000  
 Step 02: Loss: 0.0299, Total Entropy: 0.0154, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0151, Distance: 2.8814  
 Step 03: Loss: 0.0220, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.8984  
 Step 04: Loss: 0.0242, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7259  
 Step 05: Loss: 0.0272, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4154  
 Step 06: Loss: 0.0301, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9995  
 Step 07: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4995  
 Step 08: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9307  
 Step 09: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3042  
 Step 10: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6286  
 Step 11: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9105  
 Step 12: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1554  
 Step 13: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3679  
 Step 14: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5516  
 Step 15: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7098  
 Step 16: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8452  
 Step 17: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9602  
 Step 18: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0568  
 Step 19: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1370  
 Step 20: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2023  
 Step 21: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2541  
 Step 22: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.2939  
Step 23: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3226  
Step 24: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3414  
Step 25: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3512  
Step 26: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3528  
Step 27: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3470  
Step 28: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3345  
Step 29: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3159  
Step 30: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2918  
Step 31: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2626  
Step 32: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2289  
Step 33: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1910  
Step 34: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1494  
Step 35: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1043  
Step 36: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0562  
Step 37: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.0052  
Step 38: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.9517  
Step 39: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.8959  
Step 40: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.8380  
Step 41: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.7782  
Step 42: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.7167  
Step 43: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6536  
Step 44: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.5892  
Step 45: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.5236  
Step 46: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.4569  
 Step 47: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3891  
 Step 48: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3205  
 Step 49: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2511  
 Step 50: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1810  
 Step 51: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1103  
 Step 52: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0391  
 Step 53: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9673  
 Step 54: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8952  
 Step 55: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8228  
 Step 56: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7500  
 Step 57: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6770  
 Step 58: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6038  
 Step 59: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5305  
 Step 60: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4571  
 Step 61: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3836  
 Step 62: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3100  
 Step 63: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2365  
 Step 64: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1629  
 Step 65: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0894  
 Step 66: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0159  
 Step 67: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9425  
 Step 68: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8693  
 Step 69: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7961  
 Step 70: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.7230  
 Step 71: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6501  
 Step 72: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5774  
 Step 73: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5048  
 Step 74: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4324  
 Step 75: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3602  
 Step 76: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2881  
 Step 77: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2163  
 Step 78: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1447  
 Step 79: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0733  
 Step 80: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0021  
 Step 81: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9312  
 Step 82: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8605  
 Step 83: Loss: 0.0290, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7900  
 Step 84: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7198  
 Step 85: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6499  
 Step 86: Loss: 0.0279, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5802  
 Step 87: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5109  
 Step 88: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4418  
 Step 89: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3730  
 Step 90: Loss: 0.0265, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3045  
 Step 91: Loss: 0.0262, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2363  
 Step 92: Loss: 0.0259, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1684  
 Step 93: Loss: 0.0255, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1009  
 Step 94: Loss: 0.0252, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.0337  
 Step 95: Loss: 0.0249, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9668  
 Step 96: Loss: 0.0245, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9003  
 Step 97: Loss: 0.0242, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8341  
 Step 98: Loss: 0.0239, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7683  
 Step 99: Loss: 0.0236, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7028  
 Step 100: Loss: 0.0233, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6378  
 Step 101: Loss: 0.0229, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5731  
 Step 102: Loss: 0.0226, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5089  
 Step 103: Loss: 0.0223, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4451  
 Step 104: Loss: 0.0220, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3817  
 Step 105: Loss: 0.0217, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3189  
 Step 106: Loss: 0.0214, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2565  
 Step 107: Loss: 0.0211, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1946  
 Step 108: Loss: 0.0208, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1333  
 Step 109: Loss: 0.0206, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0726  
 Step 110: Loss: 0.0203, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0124  
 Step 111: Loss: 0.0200, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.9529  
 Step 112: Loss: 0.0198, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8941  
 Step 113: Loss: 0.0195, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8360  
 Step 114: Loss: 0.0193, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.7787  
 Step 115: Loss: 0.0190, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.7222  
 Step 116: Loss: 0.0188, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.6667  
 Step 117: Loss: 0.0186, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.6121  
 Step 118: Loss: 0.0184, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0006, Distance: 3.5585  
 Step 119: Loss: 0.0182, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5060  
 Step 120: Loss: 0.0180, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.4548  
 Step 121: Loss: 0.0178, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.4048  
 Step 122: Loss: 0.0177, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.3563  
 Step 123: Loss: 0.0175, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.3092  
 Step 124: Loss: 0.0174, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.2637  
 Step 125: Loss: 0.0173, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.2200  
 Step 126: Loss: 0.0172, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.1781  
 Step 127: Loss: 0.0171, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.1381  
 Step 128: Loss: 0.0170, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.1002  
 Step 129: Loss: 0.0170, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.0645  
 Step 130: Loss: 0.0169, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.0311  
 Step 131: Loss: 0.0169, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.0000  
 Step 132: Loss: 0.0169, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9714  
 Step 133: Loss: 0.0168, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9453  
 Step 134: Loss: 0.0168, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.9218  
 Step 135: Loss: 0.0168, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.9009  
 Step 136: Loss: 0.0168, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8826  
 Step 137: Loss: 0.0168, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.8668  
 Step 138: Loss: 0.0167, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.8535  
 Step 139: Loss: 0.0167, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.8427  
 Step 140: Loss: 0.0167, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.8342  
 Step 141: Loss: 0.0167, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.8278  
 Step 142: Loss: 0.0167, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0025, Distance: 2.8234  
 Step 143: Loss: 0.0167, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.8208  
 Step 144: Loss: 0.0166, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.8198  
 Step 145: Loss: 0.0166, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.8203  
 Step 146: Loss: 0.0166, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.8218  
 Step 147: Loss: 0.0166, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.8244  
 Step 148: Loss: 0.0166, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.8276  
 Step 149: Loss: 0.0165, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8315  
 Step 150: Loss: 0.0165, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8356  
 Step 151: Loss: 0.0165, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8399  
 Step 152: Loss: 0.0165, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8443  
 Step 153: Loss: 0.0165, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8485  
 Step 154: Loss: 0.0165, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8525  
 Step 155: Loss: 0.0165, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8562  
 Step 156: Loss: 0.0165, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8594  
 Step 157: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8622  
 Step 158: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8645  
 Step 159: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8662  
 Step 160: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8674  
 Step 161: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8681  
 Step 162: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8682  
 Step 163: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8678  
 Step 164: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8670  
 Step 165: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8657  
 Step 166: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0021, Distance: 2.8081  
 Step 191: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8072  
 Step 192: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8064  
 Step 193: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8058  
 Step 194: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8051  
 Step 195: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8046  
 Step 196: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8041  
 Step 197: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8036  
 Step 198: Loss: 0.0162, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8031  
 Step 199: Loss: 0.0162, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8026  
 Step 00: Loss: 1.0356, Total Entropy: 1.0356, Epistemic Entropy: 0.0336,  
 Aleatoric Entropy: 1.0020, Distance: 0.0000  
 Step 01: Loss: 0.7461, Total Entropy: 0.7381, Epistemic Entropy: 0.0446,  
 Aleatoric Entropy: 0.6936, Distance: 1.6000  
 Step 02: Loss: 0.4535, Total Entropy: 0.4402, Epistemic Entropy: 0.0542,  
 Aleatoric Entropy: 0.3860, Distance: 2.6610  
 Step 03: Loss: 0.1220, Total Entropy: 0.1044, Epistemic Entropy: 0.0170,  
 Aleatoric Entropy: 0.0874, Distance: 3.5272  
 Step 04: Loss: 0.0370, Total Entropy: 0.0149, Epistemic Entropy: 0.0021,  
 Aleatoric Entropy: 0.0128, Distance: 4.4059  
 Step 05: Loss: 0.0285, Total Entropy: 0.0024, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0021, Distance: 5.2197  
 Step 06: Loss: 0.0302, Total Entropy: 0.0005, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0004, Distance: 5.9445  
 Step 07: Loss: 0.0330, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.5841  
 Step 08: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1473  
 Step 09: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6435  
 Step 10: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0809  
 Step 11: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4663  
 Step 12: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8058  
 Step 13: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1045  
 Step 14: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3668  
 Step 15: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5964  
 Step 16: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7967  
 Step 17: Loss: 0.0499, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9705  
 Step 18: Loss: 0.0506, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1205  
 Step 19: Loss: 0.0512, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2489  
 Step 20: Loss: 0.0518, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3577  
 Step 21: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4488  
 Step 22: Loss: 0.0526, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5237  
 Step 23: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5840  
 Step 24: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6310  
 Step 25: Loss: 0.0533, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6657  
 Step 26: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6894  
 Step 27: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7031  
 Step 28: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7075  
 Step 29: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7035  
 Step 30: Loss: 0.0535, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6919  
 Step 31: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6733  
 Step 32: Loss: 0.0532, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6483  
 Step 33: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6175  
 Step 34: Loss: 0.0529, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5814  
 Step 35: Loss: 0.0527, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5405  
 Step 36: Loss: 0.0525, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4952  
 Step 37: Loss: 0.0522, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4458  
 Step 38: Loss: 0.0520, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.3928  
 Step 39: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3365  
 Step 40: Loss: 0.0514, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2771  
 Step 41: Loss: 0.0511, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2149  
 Step 42: Loss: 0.0508, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1502  
 Step 43: Loss: 0.0504, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0833  
 Step 44: Loss: 0.0501, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0142  
 Step 45: Loss: 0.0497, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9433  
 Step 46: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8706  
 Step 47: Loss: 0.0490, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7964  
 Step 48: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7208  
 Step 49: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6439  
 Step 50: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5659  
 Step 51: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4868  
 Step 52: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4068  
 Step 53: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3260  
 Step 54: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2443  
 Step 55: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1621  
 Step 56: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0792  
 Step 57: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9957  
 Step 58: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9118  
 Step 59: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8274  
 Step 60: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7427  
 Step 61: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6576  
 Step 62: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5722  
 Step 63: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4866  
 Step 64: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4007  
 Step 65: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3147  
 Step 66: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2284  
 Step 67: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1421  
 Step 68: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0556  
 Step 69: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9690  
 Step 70: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8824  
 Step 71: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7957  
 Step 72: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7089  
 Step 73: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6222  
 Step 74: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5354  
 Step 75: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4486  
 Step 76: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3619  
 Step 77: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2752  
 Step 78: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1885  
 Step 79: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1019  
 Step 80: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0153  
 Step 81: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9288  
 Step 82: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8424  
 Step 83: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7560  
 Step 84: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6697  
 Step 85: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5836  
 Step 86: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.4975  
 Step 87: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4116  
 Step 88: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3257  
 Step 89: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2400  
 Step 90: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1545  
 Step 91: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0691  
 Step 92: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9838  
 Step 93: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8987  
 Step 94: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8138  
 Step 95: Loss: 0.0287, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7291  
 Step 96: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6446  
 Step 97: Loss: 0.0279, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5603  
 Step 98: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4763  
 Step 99: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3926  
 Step 100: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3091  
 Step 101: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2260  
 Step 102: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1432  
 Step 103: Loss: 0.0254, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0608  
 Step 104: Loss: 0.0251, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9788  
 Step 105: Loss: 0.0247, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8974  
 Step 106: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8164  
 Step 107: Loss: 0.0239, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7361  
 Step 108: Loss: 0.0236, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6565  
 Step 109: Loss: 0.0232, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5776  
 Step 110: Loss: 0.0229, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 4.4996  
 Step 111: Loss: 0.0226, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.4226  
 Step 112: Loss: 0.0223, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.3467  
 Step 113: Loss: 0.0220, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.2720  
 Step 114: Loss: 0.0217, Total Entropy: 0.0007, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 4.1988  
 Step 115: Loss: 0.0214, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 4.1272  
 Step 116: Loss: 0.0212, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 4.0575  
 Step 117: Loss: 0.0210, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.9898  
 Step 118: Loss: 0.0208, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.9244  
 Step 119: Loss: 0.0206, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.8617  
 Step 120: Loss: 0.0205, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.8018  
 Step 121: Loss: 0.0204, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.7451  
 Step 122: Loss: 0.0203, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.6919  
 Step 123: Loss: 0.0202, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.6425  
 Step 124: Loss: 0.0201, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5971  
 Step 125: Loss: 0.0201, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5560  
 Step 126: Loss: 0.0201, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5195  
 Step 127: Loss: 0.0200, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4876  
 Step 128: Loss: 0.0200, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4605  
 Step 129: Loss: 0.0200, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4380  
 Step 130: Loss: 0.0200, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.4203  
 Step 131: Loss: 0.0200, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.4070  
 Step 132: Loss: 0.0199, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3979  
 Step 133: Loss: 0.0199, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3926  
 Step 134: Loss: 0.0199, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0028, Distance: 3.3909  
 Step 135: Loss: 0.0198, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3922  
 Step 136: Loss: 0.0198, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3960  
 Step 137: Loss: 0.0198, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4020  
 Step 138: Loss: 0.0197, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4095  
 Step 139: Loss: 0.0197, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4181  
 Step 140: Loss: 0.0197, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4274  
 Step 141: Loss: 0.0196, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4370  
 Step 142: Loss: 0.0196, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4465  
 Step 143: Loss: 0.0196, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4556  
 Step 144: Loss: 0.0196, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4641  
 Step 145: Loss: 0.0196, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4717  
 Step 146: Loss: 0.0196, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4783  
 Step 147: Loss: 0.0196, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4838  
 Step 148: Loss: 0.0196, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4880  
 Step 149: Loss: 0.0196, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4911  
 Step 150: Loss: 0.0196, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4930  
 Step 151: Loss: 0.0196, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4937  
 Step 152: Loss: 0.0196, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4934  
 Step 153: Loss: 0.0196, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4920  
 Step 154: Loss: 0.0195, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4898  
 Step 155: Loss: 0.0195, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4868  
 Step 156: Loss: 0.0195, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4831  
 Step 157: Loss: 0.0195, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4789  
 Step 158: Loss: 0.0195, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

[illegible]



Aleatoric Entropy: 0.0023, Distance: 3.4280  
 Step 183: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4293  
 Step 184: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4305  
 Step 185: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4317  
 Step 186: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4327  
 Step 187: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4336  
 Step 188: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4344  
 Step 189: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4350  
 Step 190: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4354  
 Step 191: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4357  
 Step 192: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4358  
 Step 193: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4358  
 Step 194: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4356  
 Step 195: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4353  
 Step 196: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4350  
 Step 197: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4345  
 Step 198: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4340  
 Step 199: Loss: 0.0195, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4334  
 Step 00: Loss: 1.0224, Total Entropy: 1.0224, Epistemic Entropy: 0.0526,  
 Aleatoric Entropy: 0.9698, Distance: 0.0000  
 Step 01: Loss: 0.1497, Total Entropy: 0.1417, Epistemic Entropy: 0.0027,  
 Aleatoric Entropy: 0.1390, Distance: 1.6000  
 Step 02: Loss: 0.0312, Total Entropy: 0.0166, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0164, Distance: 2.9148  
 Step 03: Loss: 0.0227, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0029, Distance: 3.9508  
 Step 04: Loss: 0.0247, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.7915  
 Step 05: Loss: 0.0277, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.4909  
 Step 06: Loss: 0.0305, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.0825  
 Step 07: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5885  
 Step 08: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0245  
 Step 09: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4019  
 Step 10: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7295  
 Step 11: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0141  
 Step 12: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2613  
 Step 13: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4757  
 Step 14: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6610  
 Step 15: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8206  
 Step 16: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9571  
 Step 17: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0731  
 Step 18: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1705  
 Step 19: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2512  
 Step 20: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3169  
 Step 21: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3689  
 Step 22: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4087  
 Step 23: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4372  
 Step 24: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4556  
 Step 25: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4648  
 Step 26: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4657  
 Step 27: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4590  
 Step 28: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4454  
 Step 29: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4256  
 Step 30: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.4001  
 Step 31: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3695  
 Step 32: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3343  
 Step 33: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2948  
 Step 34: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2516  
 Step 35: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2049  
 Step 36: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1551  
 Step 37: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1025  
 Step 38: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0474  
 Step 39: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9899  
 Step 40: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9304  
 Step 41: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8690  
 Step 42: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8059  
 Step 43: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7413  
 Step 44: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6754  
 Step 45: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6082  
 Step 46: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5399  
 Step 47: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4706  
 Step 48: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4005  
 Step 49: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3296  
 Step 50: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2581  
 Step 51: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1859  
 Step 52: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1133  
 Step 53: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0401  
 Step 54: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.9667  
 Step 55: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8928  
 Step 56: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8188  
 Step 57: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7444  
 Step 58: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6699  
 Step 59: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5952  
 Step 60: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5205  
 Step 61: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4456  
 Step 62: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3707  
 Step 63: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2957  
 Step 64: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2207  
 Step 65: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1458  
 Step 66: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0709  
 Step 67: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9960  
 Step 68: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9213  
 Step 69: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8466  
 Step 70: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7720  
 Step 71: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6976  
 Step 72: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6233  
 Step 73: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5491  
 Step 74: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4751  
 Step 75: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4012  
 Step 76: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3276  
 Step 77: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2541  
 Step 78: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1808  
 Step 79: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1078  
 Step 80: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0349  
 Step 81: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9623  
 Step 82: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8899  
 Step 83: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8178  
 Step 84: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7459  
 Step 85: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6743  
 Step 86: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6029  
 Step 87: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5319  
 Step 88: Loss: 0.0273, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4611  
 Step 89: Loss: 0.0270, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3906  
 Step 90: Loss: 0.0266, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3204  
 Step 91: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2506  
 Step 92: Loss: 0.0260, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1811  
 Step 93: Loss: 0.0256, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1119  
 Step 94: Loss: 0.0253, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0431  
 Step 95: Loss: 0.0250, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9747  
 Step 96: Loss: 0.0246, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9066  
 Step 97: Loss: 0.0243, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8390  
 Step 98: Loss: 0.0240, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7718  
 Step 99: Loss: 0.0237, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7051  
 Step 100: Loss: 0.0233, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6388  
 Step 101: Loss: 0.0230, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5731  
 Step 102: Loss: 0.0227, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.5078  
 Step 103: Loss: 0.0224, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4432  
 Step 104: Loss: 0.0221, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.3791  
 Step 105: Loss: 0.0218, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3157  
 Step 106: Loss: 0.0216, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.2530  
 Step 107: Loss: 0.0213, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.1910  
 Step 108: Loss: 0.0210, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1298  
 Step 109: Loss: 0.0208, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.0694  
 Step 110: Loss: 0.0205, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0100  
 Step 111: Loss: 0.0203, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.9515  
 Step 112: Loss: 0.0201, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.8941  
 Step 113: Loss: 0.0199, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.8379  
 Step 114: Loss: 0.0197, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7829  
 Step 115: Loss: 0.0195, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7293  
 Step 116: Loss: 0.0193, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.6772  
 Step 117: Loss: 0.0192, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.6267  
 Step 118: Loss: 0.0191, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.5779  
 Step 119: Loss: 0.0189, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.5309  
 Step 120: Loss: 0.0188, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.4860  
 Step 121: Loss: 0.0187, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.4432  
 Step 122: Loss: 0.0187, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.4027  
 Step 123: Loss: 0.0186, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.3646  
 Step 124: Loss: 0.0186, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3291  
 Step 125: Loss: 0.0185, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.2962  
 Step 126: Loss: 0.0185, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0021, Distance: 3.2661  
 Step 127: Loss: 0.0185, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.2389  
 Step 128: Loss: 0.0185, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.2146  
 Step 129: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1932  
 Step 130: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.1747  
 Step 131: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.1591  
 Step 132: Loss: 0.0184, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.1463  
 Step 133: Loss: 0.0184, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1361  
 Step 134: Loss: 0.0184, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1285  
 Step 135: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1232  
 Step 136: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1201  
 Step 137: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1189  
 Step 138: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1195  
 Step 139: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1214  
 Step 140: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.1246  
 Step 141: Loss: 0.0183, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.1288  
 Step 142: Loss: 0.0183, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.1338  
 Step 143: Loss: 0.0183, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.1393  
 Step 144: Loss: 0.0182, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.1451  
 Step 145: Loss: 0.0182, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1511  
 Step 146: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1571  
 Step 147: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1629  
 Step 148: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.1684  
 Step 149: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.1736  
 Step 150: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,





[illegible]

Aleatoric Entropy: 0.0023, Distance: 3.1660  
 Step 199: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.1664  
 Step 00: Loss: 0.9988, Total Entropy: 0.9988, Epistemic Entropy: 0.0529,  
 Aleatoric Entropy: 0.9458, Distance: 0.0000  
 Step 01: Loss: 0.1573, Total Entropy: 0.1493, Epistemic Entropy: 0.0085,  
 Aleatoric Entropy: 0.1409, Distance: 1.6000  
 Step 02: Loss: 0.0300, Total Entropy: 0.0153, Epistemic Entropy: 0.0008,  
 Aleatoric Entropy: 0.0146, Distance: 2.9232  
 Step 03: Loss: 0.0222, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.9745  
 Step 04: Loss: 0.0246, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.8300  
 Step 05: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5432  
 Step 06: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1474  
 Step 07: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6645  
 Step 08: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1101  
 Step 09: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4955  
 Step 10: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8298  
 Step 11: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1197  
 Step 12: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3710  
 Step 13: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5885  
 Step 14: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7760  
 Step 15: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9371  
 Step 16: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0747  
 Step 17: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1912  
 Step 18: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2888  
 Step 19: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3694  
 Step 20: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4348  
 Step 21: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4864  
 Step 22: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.5254  
 Step 23: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5532  
 Step 24: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5706  
 Step 25: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5788  
 Step 26: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5784  
 Step 27: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5703  
 Step 28: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5552  
 Step 29: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5338  
 Step 30: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5065  
 Step 31: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4740  
 Step 32: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4366  
 Step 33: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3950  
 Step 34: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3493  
 Step 35: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3001  
 Step 36: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2477  
 Step 37: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1923  
 Step 38: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1342  
 Step 39: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0737  
 Step 40: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0110  
 Step 41: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9464  
 Step 42: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8799  
 Step 43: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8119  
 Step 44: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7424  
 Step 45: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6716  
 Step 46: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5997  
 Step 47: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5267  
 Step 48: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4529  
 Step 49: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3782  
 Step 50: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3027  
 Step 51: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2266  
 Step 52: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1500  
 Step 53: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0728  
 Step 54: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9951  
 Step 55: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9171  
 Step 56: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8387  
 Step 57: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7600  
 Step 58: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6810  
 Step 59: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6019  
 Step 60: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5225  
 Step 61: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4430  
 Step 62: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3633  
 Step 63: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2836  
 Step 64: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2037  
 Step 65: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1238  
 Step 66: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0439  
 Step 67: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9640  
 Step 68: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8841  
 Step 69: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8042  
 Step 70: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.7243  
 Step 71: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6445  
 Step 72: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5647  
 Step 73: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4851  
 Step 74: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4055  
 Step 75: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3261  
 Step 76: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2467  
 Step 77: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1675  
 Step 78: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0885  
 Step 79: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0096  
 Step 80: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9308  
 Step 81: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8523  
 Step 82: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7739  
 Step 83: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6957  
 Step 84: Loss: 0.0281, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6177  
 Step 85: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5399  
 Step 86: Loss: 0.0273, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4623  
 Step 87: Loss: 0.0270, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3850  
 Step 88: Loss: 0.0266, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3079  
 Step 89: Loss: 0.0262, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2311  
 Step 90: Loss: 0.0258, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1545  
 Step 91: Loss: 0.0254, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0783  
 Step 92: Loss: 0.0251, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0023  
 Step 93: Loss: 0.0247, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9267  
 Step 94: Loss: 0.0243, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 4.8514  
 Step 95: Loss: 0.0240, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7765  
 Step 96: Loss: 0.0236, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7021  
 Step 97: Loss: 0.0233, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6280  
 Step 98: Loss: 0.0229, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5544  
 Step 99: Loss: 0.0226, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4814  
 Step 100: Loss: 0.0222, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4089  
 Step 101: Loss: 0.0219, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.3370  
 Step 102: Loss: 0.0216, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.2657  
 Step 103: Loss: 0.0213, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.1952  
 Step 104: Loss: 0.0210, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.1256  
 Step 105: Loss: 0.0207, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.0568  
 Step 106: Loss: 0.0204, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.9890  
 Step 107: Loss: 0.0202, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.9223  
 Step 108: Loss: 0.0199, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.8569  
 Step 109: Loss: 0.0197, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.7928  
 Step 110: Loss: 0.0195, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7302  
 Step 111: Loss: 0.0193, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.6693  
 Step 112: Loss: 0.0191, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.6103  
 Step 113: Loss: 0.0189, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.5534  
 Step 114: Loss: 0.0188, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.4987  
 Step 115: Loss: 0.0187, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.4465  
 Step 116: Loss: 0.0186, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.3971  
 Step 117: Loss: 0.0185, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.3505  
 Step 118: Loss: 0.0184, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0018, Distance: 3.3071  
 Step 119: Loss: 0.0184, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2671  
 Step 120: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2306  
 Step 121: Loss: 0.0183, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1979  
 Step 122: Loss: 0.0183, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1689  
 Step 123: Loss: 0.0183, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1438  
 Step 124: Loss: 0.0183, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1226  
 Step 125: Loss: 0.0182, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1053  
 Step 126: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0917  
 Step 127: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0817  
 Step 128: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0750  
 Step 129: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0714  
 Step 130: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0707  
 Step 131: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0723  
 Step 132: Loss: 0.0181, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0761  
 Step 133: Loss: 0.0181, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0815  
 Step 134: Loss: 0.0181, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0883  
 Step 135: Loss: 0.0181, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0961  
 Step 136: Loss: 0.0181, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1046  
 Step 137: Loss: 0.0180, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1133  
 Step 138: Loss: 0.0180, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1221  
 Step 139: Loss: 0.0180, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1308  
 Step 140: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1390  
 Step 141: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1466  
 Step 142: Loss: 0.0180, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,





[illegible]

Aleatoric Entropy: 0.0022, Distance: 3.1425  
 Step 191: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1428  
 Step 192: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1429  
 Step 193: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1430  
 Step 194: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1430  
 Step 195: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1430  
 Step 196: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1429  
 Step 197: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1428  
 Step 198: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1426  
 Step 199: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1424  
 Step 00: Loss: 0.9758, Total Entropy: 0.9758, Epistemic Entropy: 0.1134,  
 Aleatoric Entropy: 0.8624, Distance: 0.0000  
 Step 01: Loss: 0.7320, Total Entropy: 0.7240, Epistemic Entropy: 0.1008,  
 Aleatoric Entropy: 0.6232, Distance: 1.6000  
 Step 02: Loss: 0.5990, Total Entropy: 0.5853, Epistemic Entropy: 0.0863,  
 Aleatoric Entropy: 0.4990, Distance: 2.7361  
 Step 03: Loss: 0.2093, Total Entropy: 0.1917, Epistemic Entropy: 0.0179,  
 Aleatoric Entropy: 0.1738, Distance: 3.5152  
 Step 04: Loss: 0.0465, Total Entropy: 0.0246, Epistemic Entropy: 0.0014,  
 Aleatoric Entropy: 0.0232, Distance: 4.3751  
 Step 05: Loss: 0.0295, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 5.2223  
 Step 06: Loss: 0.0306, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 5.9929  
 Step 07: Loss: 0.0335, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.6786  
 Step 08: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2851  
 Step 09: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8204  
 Step 10: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2926  
 Step 11: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7086  
 Step 12: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0748  
 Step 13: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3966  
 Step 14: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.6786  
 Step 15: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9249  
 Step 16: Loss: 0.0507, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1391  
 Step 17: Loss: 0.0516, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3244  
 Step 18: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4835  
 Step 19: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6190  
 Step 20: Loss: 0.0537, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7331  
 Step 21: Loss: 0.0541, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8277  
 Step 22: Loss: 0.0545, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9047  
 Step 23: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9656  
 Step 24: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0120  
 Step 25: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0451  
 Step 26: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0661  
 Step 27: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0761  
 Step 28: Loss: 0.0554, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0762  
 Step 29: Loss: 0.0553, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0671  
 Step 30: Loss: 0.0552, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0498  
 Step 31: Loss: 0.0551, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 11.0249  
 Step 32: Loss: 0.0550, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9932  
 Step 33: Loss: 0.0548, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9552  
 Step 34: Loss: 0.0546, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.9115  
 Step 35: Loss: 0.0543, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8626  
 Step 36: Loss: 0.0540, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.8091  
 Step 37: Loss: 0.0538, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.7513  
 Step 38: Loss: 0.0534, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 10.6895  
 Step 39: Loss: 0.0531, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.6243  
 Step 40: Loss: 0.0528, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.5558  
 Step 41: Loss: 0.0524, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4844  
 Step 42: Loss: 0.0521, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.4103  
 Step 43: Loss: 0.0517, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.3338  
 Step 44: Loss: 0.0513, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.2551  
 Step 45: Loss: 0.0509, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.1744  
 Step 46: Loss: 0.0505, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0919  
 Step 47: Loss: 0.0500, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 10.0077  
 Step 48: Loss: 0.0496, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.9221  
 Step 49: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8351  
 Step 50: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7469  
 Step 51: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6575  
 Step 52: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5672  
 Step 53: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4759  
 Step 54: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3838  
 Step 55: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2910  
 Step 56: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1975  
 Step 57: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1034  
 Step 58: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0087  
 Step 59: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9136  
 Step 60: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8180  
 Step 61: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7221  
 Step 62: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.6258  
 Step 63: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5293  
 Step 64: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4324  
 Step 65: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3354  
 Step 66: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2381  
 Step 67: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1407  
 Step 68: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0432  
 Step 69: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9455  
 Step 70: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8478  
 Step 71: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7500  
 Step 72: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6522  
 Step 73: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5544  
 Step 74: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4565  
 Step 75: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3587  
 Step 76: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2609  
 Step 77: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1632  
 Step 78: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0655  
 Step 79: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9680  
 Step 80: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8705  
 Step 81: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7731  
 Step 82: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6759  
 Step 83: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5788  
 Step 84: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4819  
 Step 85: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3852  
 Step 86: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.2886  
 Step 87: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1922  
 Step 88: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0961  
 Step 89: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0002  
 Step 90: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9045  
 Step 91: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8091  
 Step 92: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7140  
 Step 93: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6191  
 Step 94: Loss: 0.0277, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5246  
 Step 95: Loss: 0.0272, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4305  
 Step 96: Loss: 0.0268, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3368  
 Step 97: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2435  
 Step 98: Loss: 0.0259, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1507  
 Step 99: Loss: 0.0254, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0584  
 Step 100: Loss: 0.0250, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9667  
 Step 101: Loss: 0.0246, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8756  
 Step 102: Loss: 0.0242, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7853  
 Step 103: Loss: 0.0238, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6959  
 Step 104: Loss: 0.0234, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6074  
 Step 105: Loss: 0.0230, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.5201  
 Step 106: Loss: 0.0227, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.4341  
 Step 107: Loss: 0.0224, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.3495  
 Step 108: Loss: 0.0221, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.2667  
 Step 109: Loss: 0.0218, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.1858  
 Step 110: Loss: 0.0215, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0010, Distance: 4.1072  
 Step 111: Loss: 0.0213, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.0313  
 Step 112: Loss: 0.0211, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.9583  
 Step 113: Loss: 0.0210, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.8888  
 Step 114: Loss: 0.0209, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.8232  
 Step 115: Loss: 0.0208, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.7619  
 Step 116: Loss: 0.0208, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.7055  
 Step 117: Loss: 0.0207, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.6544  
 Step 118: Loss: 0.0207, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.6091  
 Step 119: Loss: 0.0207, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.5699  
 Step 120: Loss: 0.0207, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.5371  
 Step 121: Loss: 0.0207, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.5108  
 Step 122: Loss: 0.0207, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.4912  
 Step 123: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.4780  
 Step 124: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.4708  
 Step 125: Loss: 0.0206, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.4693  
 Step 126: Loss: 0.0205, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.4727  
 Step 127: Loss: 0.0205, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.4804  
 Step 128: Loss: 0.0204, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.4915  
 Step 129: Loss: 0.0204, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.5052  
 Step 130: Loss: 0.0203, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.5207  
 Step 131: Loss: 0.0203, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.5372  
 Step 132: Loss: 0.0203, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5539  
 Step 133: Loss: 0.0203, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5702  
 Step 134: Loss: 0.0203, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0023, Distance: 3.5857  
 Step 135: Loss: 0.0202, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5998  
 Step 136: Loss: 0.0202, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.6122  
 Step 137: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.6227  
 Step 138: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6312  
 Step 139: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6376  
 Step 140: Loss: 0.0202, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6419  
 Step 141: Loss: 0.0202, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6442  
 Step 142: Loss: 0.0202, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6445  
 Step 143: Loss: 0.0202, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6431  
 Step 144: Loss: 0.0202, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6401  
 Step 145: Loss: 0.0202, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6357  
 Step 146: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6302  
 Step 147: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6238  
 Step 148: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.6167  
 Step 149: Loss: 0.0202, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.6092  
 Step 150: Loss: 0.0202, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.6014  
 Step 151: Loss: 0.0202, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5937  
 Step 152: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5861  
 Step 153: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5789  
 Step 154: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5722  
 Step 155: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5661  
 Step 156: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5608  
 Step 157: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5563  
 Step 158: Loss: 0.0202, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0022, Distance: 3.5747  
 Step 183: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5742  
 Step 184: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5735  
 Step 185: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5727  
 Step 186: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5717  
 Step 187: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5708  
 Step 188: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5698  
 Step 189: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5688  
 Step 190: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5678  
 Step 191: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5669  
 Step 192: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5661  
 Step 193: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5654  
 Step 194: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5648  
 Step 195: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5643  
 Step 196: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5640  
 Step 197: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5637  
 Step 198: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5636  
 Step 199: Loss: 0.0202, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.5636  
 Step 00: Loss: 0.9740, Total Entropy: 0.9740, Epistemic Entropy: 0.0994,  
 Aleatoric Entropy: 0.8745, Distance: 0.0000  
 Step 01: Loss: 0.3712, Total Entropy: 0.3632, Epistemic Entropy: 0.0373,  
 Aleatoric Entropy: 0.3259, Distance: 1.6000  
 Step 02: Loss: 0.0600, Total Entropy: 0.0463, Epistemic Entropy: 0.0023,  
 Aleatoric Entropy: 0.0440, Distance: 2.7433  
 Step 03: Loss: 0.0249, Total Entropy: 0.0060, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0058, Distance: 3.7851  
 Step 04: Loss: 0.0245, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.6662  
 Step 05: Loss: 0.0274, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 5.4123  
 Step 06: Loss: 0.0304, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.0504  
 Step 07: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6005  
 Step 08: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0778  
 Step 09: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4934  
 Step 10: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8562  
 Step 11: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1732  
 Step 12: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4502  
 Step 13: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6919  
 Step 14: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9023  
 Step 15: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0849  
 Step 16: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2425  
 Step 17: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3778  
 Step 18: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4930  
 Step 19: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5900  
 Step 20: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6705  
 Step 21: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7362  
 Step 22: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7884  
 Step 23: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8284  
 Step 24: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8572  
 Step 25: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8758  
 Step 26: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8852  
 Step 27: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8862  
 Step 28: Loss: 0.0494, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8795  
 Step 29: Loss: 0.0493, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8657  
 Step 30: Loss: 0.0492, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.8455  
 Step 31: Loss: 0.0491, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.8194  
 Step 32: Loss: 0.0489, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7879  
 Step 33: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7515  
 Step 34: Loss: 0.0486, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7106  
 Step 35: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6656  
 Step 36: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6168  
 Step 37: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5646  
 Step 38: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5092  
 Step 39: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4509  
 Step 40: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3899  
 Step 41: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3265  
 Step 42: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2609  
 Step 43: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1933  
 Step 44: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1237  
 Step 45: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0525  
 Step 46: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9797  
 Step 47: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9054  
 Step 48: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8299  
 Step 49: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7531  
 Step 50: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6751  
 Step 51: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5962  
 Step 52: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5163  
 Step 53: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4356  
 Step 54: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.3540  
 Step 55: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2718  
 Step 56: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1888  
 Step 57: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1052  
 Step 58: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0211  
 Step 59: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9364  
 Step 60: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8512  
 Step 61: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7656  
 Step 62: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6796  
 Step 63: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5933  
 Step 64: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5066  
 Step 65: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4196  
 Step 66: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3323  
 Step 67: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2448  
 Step 68: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1572  
 Step 69: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0693  
 Step 70: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9813  
 Step 71: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8932  
 Step 72: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8049  
 Step 73: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7166  
 Step 74: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6283  
 Step 75: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5399  
 Step 76: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4515  
 Step 77: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3631  
 Step 78: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.2748  
 Step 79: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1864  
 Step 80: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0982  
 Step 81: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0100  
 Step 82: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9220  
 Step 83: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8340  
 Step 84: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7462  
 Step 85: Loss: 0.0283, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6585  
 Step 86: Loss: 0.0279, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5711  
 Step 87: Loss: 0.0275, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4838  
 Step 88: Loss: 0.0271, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3968  
 Step 89: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3100  
 Step 90: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2235  
 Step 91: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1374  
 Step 92: Loss: 0.0254, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0516  
 Step 93: Loss: 0.0250, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9662  
 Step 94: Loss: 0.0246, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8813  
 Step 95: Loss: 0.0242, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7969  
 Step 96: Loss: 0.0238, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7131  
 Step 97: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6300  
 Step 98: Loss: 0.0231, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5477  
 Step 99: Loss: 0.0227, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.4662  
 Step 100: Loss: 0.0224, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.3857  
 Step 101: Loss: 0.0221, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.3064  
 Step 102: Loss: 0.0218, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0006, Distance: 4.2283  
 Step 103: Loss: 0.0215, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.1518  
 Step 104: Loss: 0.0212, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.0769  
 Step 105: Loss: 0.0210, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.0039  
 Step 106: Loss: 0.0208, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.9331  
 Step 107: Loss: 0.0206, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.8648  
 Step 108: Loss: 0.0204, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.7992  
 Step 109: Loss: 0.0203, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.7368  
 Step 110: Loss: 0.0202, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.6779  
 Step 111: Loss: 0.0201, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.6228  
 Step 112: Loss: 0.0201, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5719  
 Step 113: Loss: 0.0201, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.5255  
 Step 114: Loss: 0.0201, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4841  
 Step 115: Loss: 0.0201, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.4478  
 Step 116: Loss: 0.0201, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.4169  
 Step 117: Loss: 0.0201, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.3915  
 Step 118: Loss: 0.0201, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3717  
 Step 119: Loss: 0.0201, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3573  
 Step 120: Loss: 0.0201, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.3481  
 Step 121: Loss: 0.0201, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.3440  
 Step 122: Loss: 0.0200, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3444  
 Step 123: Loss: 0.0200, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.3489  
 Step 124: Loss: 0.0200, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.3569  
 Step 125: Loss: 0.0199, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.3678  
 Step 126: Loss: 0.0199, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0029, Distance: 3.3809  
 Step 127: Loss: 0.0199, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3957  
 Step 128: Loss: 0.0199, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.4115  
 Step 129: Loss: 0.0198, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.4277  
 Step 130: Loss: 0.0198, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.4438  
 Step 131: Loss: 0.0198, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4594  
 Step 132: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.4742  
 Step 133: Loss: 0.0198, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4877  
 Step 134: Loss: 0.0198, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.4998  
 Step 135: Loss: 0.0198, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5103  
 Step 136: Loss: 0.0198, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5191  
 Step 137: Loss: 0.0198, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5262  
 Step 138: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5315  
 Step 139: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5351  
 Step 140: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5370  
 Step 141: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5374  
 Step 142: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5364  
 Step 143: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5341  
 Step 144: Loss: 0.0198, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5308  
 Step 145: Loss: 0.0198, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5265  
 Step 146: Loss: 0.0198, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5214  
 Step 147: Loss: 0.0198, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.5157  
 Step 148: Loss: 0.0198, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5097  
 Step 149: Loss: 0.0198, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.5034  
 Step 150: Loss: 0.0198, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,







Aleatoric Entropy: 0.0023, Distance: 3.4696  
 Step 199: Loss: 0.0197, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4694  
 Step 00: Loss: 0.9525, Total Entropy: 0.9525, Epistemic Entropy: 0.0462,  
 Aleatoric Entropy: 0.9064, Distance: 0.0000  
 Step 01: Loss: 0.1690, Total Entropy: 0.1610, Epistemic Entropy: 0.0069,  
 Aleatoric Entropy: 0.1541, Distance: 1.6000  
 Step 02: Loss: 0.0366, Total Entropy: 0.0219, Epistemic Entropy: 0.0009,  
 Aleatoric Entropy: 0.0210, Distance: 2.9451  
 Step 03: Loss: 0.0244, Total Entropy: 0.0043, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0041, Distance: 4.0164  
 Step 04: Loss: 0.0256, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.8875  
 Step 05: Loss: 0.0284, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.6121  
 Step 06: Loss: 0.0313, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2243  
 Step 07: Loss: 0.0338, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7470  
 Step 08: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1964  
 Step 09: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5842  
 Step 10: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9197  
 Step 11: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2102  
 Step 12: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4613  
 Step 13: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6781  
 Step 14: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8644  
 Step 15: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0239  
 Step 16: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1594  
 Step 17: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2734  
 Step 18: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3683  
 Step 19: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4459  
 Step 20: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5081  
 Step 21: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5563  
 Step 22: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.5918  
 Step 23: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6160  
 Step 24: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6298  
 Step 25: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6343  
 Step 26: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6303  
 Step 27: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6185  
 Step 28: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5998  
 Step 29: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5747  
 Step 30: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5437  
 Step 31: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5075  
 Step 32: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4666  
 Step 33: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4212  
 Step 34: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3719  
 Step 35: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3189  
 Step 36: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2627  
 Step 37: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2036  
 Step 38: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1417  
 Step 39: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0775  
 Step 40: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0110  
 Step 41: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9426  
 Step 42: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8725  
 Step 43: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8007  
 Step 44: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7276  
 Step 45: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6532  
 Step 46: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5777  
 Step 47: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5013  
 Step 48: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4239  
 Step 49: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3458  
 Step 50: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2671  
 Step 51: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1878  
 Step 52: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1080  
 Step 53: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0278  
 Step 54: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9473  
 Step 55: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8664  
 Step 56: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7854  
 Step 57: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7041  
 Step 58: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6228  
 Step 59: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5413  
 Step 60: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4598  
 Step 61: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3783  
 Step 62: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2968  
 Step 63: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2153  
 Step 64: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1338  
 Step 65: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0525  
 Step 66: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9712  
 Step 67: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8901  
 Step 68: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8091  
 Step 69: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7282  
 Step 70: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.6476  
 Step 71: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5670  
 Step 72: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4867  
 Step 73: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4066  
 Step 74: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3267  
 Step 75: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2470  
 Step 76: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1675  
 Step 77: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0883  
 Step 78: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0094  
 Step 79: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9307  
 Step 80: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8523  
 Step 81: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7741  
 Step 82: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6963  
 Step 83: Loss: 0.0281, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6188  
 Step 84: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5416  
 Step 85: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4647  
 Step 86: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3882  
 Step 87: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3120  
 Step 88: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2363  
 Step 89: Loss: 0.0259, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1609  
 Step 90: Loss: 0.0255, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0859  
 Step 91: Loss: 0.0252, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0114  
 Step 92: Loss: 0.0248, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9374  
 Step 93: Loss: 0.0245, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8638  
 Step 94: Loss: 0.0241, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.7908  
 Step 95: Loss: 0.0238, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7184  
 Step 96: Loss: 0.0235, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6466  
 Step 97: Loss: 0.0231, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5754  
 Step 98: Loss: 0.0228, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5050  
 Step 99: Loss: 0.0225, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4353  
 Step 100: Loss: 0.0222, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3664  
 Step 101: Loss: 0.0219, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2985  
 Step 102: Loss: 0.0217, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.2315  
 Step 103: Loss: 0.0214, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1656  
 Step 104: Loss: 0.0212, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1009  
 Step 105: Loss: 0.0209, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.0375  
 Step 106: Loss: 0.0207, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.9755  
 Step 107: Loss: 0.0205, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.9150  
 Step 108: Loss: 0.0203, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.8563  
 Step 109: Loss: 0.0202, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.7994  
 Step 110: Loss: 0.0200, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.7445  
 Step 111: Loss: 0.0199, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.6917  
 Step 112: Loss: 0.0198, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.6414  
 Step 113: Loss: 0.0197, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.5935  
 Step 114: Loss: 0.0196, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.5485  
 Step 115: Loss: 0.0196, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.5063  
 Step 116: Loss: 0.0195, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4671  
 Step 117: Loss: 0.0195, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.4313  
 Step 118: Loss: 0.0195, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0024, Distance: 3.3987  
 Step 119: Loss: 0.0195, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3697  
 Step 120: Loss: 0.0195, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3441  
 Step 121: Loss: 0.0195, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.3222  
 Step 122: Loss: 0.0195, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.3038  
 Step 123: Loss: 0.0195, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.2889  
 Step 124: Loss: 0.0194, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2773  
 Step 125: Loss: 0.0194, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2691  
 Step 126: Loss: 0.0194, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2638  
 Step 127: Loss: 0.0194, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2614  
 Step 128: Loss: 0.0194, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2615  
 Step 129: Loss: 0.0194, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2638  
 Step 130: Loss: 0.0194, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.2680  
 Step 131: Loss: 0.0193, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.2738  
 Step 132: Loss: 0.0193, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2808  
 Step 133: Loss: 0.0193, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2887  
 Step 134: Loss: 0.0193, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2973  
 Step 135: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.3062  
 Step 136: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3151  
 Step 137: Loss: 0.0193, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3239  
 Step 138: Loss: 0.0193, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3323  
 Step 139: Loss: 0.0193, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.3403  
 Step 140: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3475  
 Step 141: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3541  
 Step 142: Loss: 0.0192, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,



[illegible]



Aleatoric Entropy: 0.0024, Distance: 3.3425  
 Step 191: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3427  
 Step 192: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3429  
 Step 193: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3430  
 Step 194: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3430  
 Step 195: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3430  
 Step 196: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3430  
 Step 197: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3428  
 Step 198: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3427  
 Step 199: Loss: 0.0192, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3426  
 Step 00: Loss: 0.9283, Total Entropy: 0.9283, Epistemic Entropy: 0.0485,  
 Aleatoric Entropy: 0.8798, Distance: 0.0000  
 Step 01: Loss: 0.2994, Total Entropy: 0.2914, Epistemic Entropy: 0.0183,  
 Aleatoric Entropy: 0.2732, Distance: 1.6000  
 Step 02: Loss: 0.0394, Total Entropy: 0.0257, Epistemic Entropy: 0.0013,  
 Aleatoric Entropy: 0.0244, Distance: 2.7541  
 Step 03: Loss: 0.0216, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7783  
 Step 04: Loss: 0.0236, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.6358  
 Step 05: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3597  
 Step 06: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9777  
 Step 07: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5101  
 Step 08: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9714  
 Step 09: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3727  
 Step 10: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7225  
 Step 11: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0277  
 Step 12: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2938  
 Step 13: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5254  
 Step 14: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.7264  
 Step 15: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8999  
 Step 16: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0490  
 Step 17: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1759  
 Step 18: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2830  
 Step 19: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3720  
 Step 20: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4447  
 Step 21: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5026  
 Step 22: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5469  
 Step 23: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5790  
 Step 24: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5999  
 Step 25: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6106  
 Step 26: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6120  
 Step 27: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6048  
 Step 28: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5899  
 Step 29: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5678  
 Step 30: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5392  
 Step 31: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5046  
 Step 32: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4646  
 Step 33: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4196  
 Step 34: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3701  
 Step 35: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3163  
 Step 36: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2588  
 Step 37: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1977  
 Step 38: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.1335  
 Step 39: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0664  
 Step 40: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9966  
 Step 41: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9244  
 Step 42: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8500  
 Step 43: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7735  
 Step 44: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6953  
 Step 45: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6153  
 Step 46: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5339  
 Step 47: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4511  
 Step 48: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3670  
 Step 49: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2818  
 Step 50: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1956  
 Step 51: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1085  
 Step 52: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0205  
 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: 7.8425  
 Step 55: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7525  
 Step 56: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6621  
 Step 57: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5711  
 Step 58: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4798  
 Step 59: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3881  
 Step 60: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2961  
 Step 61: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2039  
 Step 62: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.1114  
 Step 63: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0188  
 Step 64: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9261  
 Step 65: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8332  
 Step 66: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7403  
 Step 67: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6473  
 Step 68: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5543  
 Step 69: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4614  
 Step 70: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3685  
 Step 71: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2756  
 Step 72: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1828  
 Step 73: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0902  
 Step 74: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9976  
 Step 75: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9052  
 Step 76: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8130  
 Step 77: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7210  
 Step 78: Loss: 0.0282, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6292  
 Step 79: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5376  
 Step 80: Loss: 0.0273, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4462  
 Step 81: Loss: 0.0268, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3552  
 Step 82: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2644  
 Step 83: Loss: 0.0259, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1740  
 Step 84: Loss: 0.0255, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0839  
 Step 85: Loss: 0.0250, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9942  
 Step 86: Loss: 0.0246, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 4.9048  
 Step 87: Loss: 0.0241, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8160  
 Step 88: Loss: 0.0237, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7276  
 Step 89: Loss: 0.0233, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6397  
 Step 90: Loss: 0.0229, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5524  
 Step 91: Loss: 0.0224, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4656  
 Step 92: Loss: 0.0220, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3795  
 Step 93: Loss: 0.0216, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.2942  
 Step 94: Loss: 0.0212, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.2096  
 Step 95: Loss: 0.0209, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1260  
 Step 96: Loss: 0.0205, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.0432  
 Step 97: Loss: 0.0201, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.9616  
 Step 98: Loss: 0.0198, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.8812  
 Step 99: Loss: 0.0195, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.8022  
 Step 100: Loss: 0.0192, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.7247  
 Step 101: Loss: 0.0189, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.6489  
 Step 102: Loss: 0.0186, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.5751  
 Step 103: Loss: 0.0184, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.5036  
 Step 104: Loss: 0.0182, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.4346  
 Step 105: Loss: 0.0180, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.3684  
 Step 106: Loss: 0.0179, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.3056  
 Step 107: Loss: 0.0178, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.2463  
 Step 108: Loss: 0.0177, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.1912  
 Step 109: Loss: 0.0177, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1405  
 Step 110: Loss: 0.0177, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0021, Distance: 3.0947  
 Step 111: Loss: 0.0176, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0543  
 Step 112: Loss: 0.0176, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0194  
 Step 113: Loss: 0.0177, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9904  
 Step 114: Loss: 0.0177, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9674  
 Step 115: Loss: 0.0176, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9503  
 Step 116: Loss: 0.0176, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9391  
 Step 117: Loss: 0.0176, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9333  
 Step 118: Loss: 0.0176, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9326  
 Step 119: Loss: 0.0175, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9364  
 Step 120: Loss: 0.0175, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9439  
 Step 121: Loss: 0.0174, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9545  
 Step 122: Loss: 0.0174, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.9673  
 Step 123: Loss: 0.0174, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.9817  
 Step 124: Loss: 0.0173, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.9969  
 Step 125: Loss: 0.0173, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.0123  
 Step 126: Loss: 0.0173, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0274  
 Step 127: Loss: 0.0173, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0416  
 Step 128: Loss: 0.0173, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0545  
 Step 129: Loss: 0.0173, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0659  
 Step 130: Loss: 0.0173, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0756  
 Step 131: Loss: 0.0173, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0835  
 Step 132: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0895  
 Step 133: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0935  
 Step 134: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0017, Distance: 3.0957  
 Step 135: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0962  
 Step 136: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0951  
 Step 137: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0926  
 Step 138: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0888  
 Step 139: Loss: 0.0173, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0841  
 Step 140: Loss: 0.0172, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0785  
 Step 141: Loss: 0.0172, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0722  
 Step 142: Loss: 0.0172, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0656  
 Step 143: Loss: 0.0172, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0588  
 Step 144: Loss: 0.0172, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0519  
 Step 145: Loss: 0.0172, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0452  
 Step 146: Loss: 0.0172, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0389  
 Step 147: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0329  
 Step 148: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0275  
 Step 149: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0228  
 Step 150: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0188  
 Step 151: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0155  
 Step 152: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0130  
 Step 153: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0113  
 Step 154: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0103  
 Step 155: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0100  
 Step 156: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0103  
 Step 157: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0112  
 Step 158: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

[illegible]

Aleatoric Entropy: 0.0020, Distance: 3.0289  
 Step 183: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0281  
 Step 184: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0274  
 Step 185: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0268  
 Step 186: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0263  
 Step 187: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0259  
 Step 188: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0256  
 Step 189: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0254  
 Step 190: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0254  
 Step 191: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0254  
 Step 192: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0256  
 Step 193: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0258  
 Step 194: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0260  
 Step 195: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0264  
 Step 196: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0267  
 Step 197: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0271  
 Step 198: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0275  
 Step 199: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0278  
 Step 00: Loss: 0.8911, Total Entropy: 0.8911, Epistemic Entropy: 0.0514,  
 Aleatoric Entropy: 0.8397, Distance: 0.0000  
 Step 01: Loss: 0.2098, Total Entropy: 0.2018, Epistemic Entropy: 0.0067,  
 Aleatoric Entropy: 0.1951, Distance: 1.6000  
 Step 02: Loss: 0.0280, Total Entropy: 0.0137, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0135, Distance: 2.8503  
 Step 03: Loss: 0.0209, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.9093  
 Step 04: Loss: 0.0241, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7822  
 Step 05: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5126  
 Step 06: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1321  
 Step 07: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6622  
 Step 08: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1186  
 Step 09: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5127  
 Step 10: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8537  
 Step 11: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1485  
 Step 12: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4030  
 Step 13: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6220  
 Step 14: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8094  
 Step 15: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9687  
 Step 16: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1029  
 Step 17: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2144  
 Step 18: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3056  
 Step 19: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3784  
 Step 20: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4346  
 Step 21: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4758  
 Step 22: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5032  
 Step 23: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5183  
 Step 24: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5221  
 Step 25: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5157  
 Step 26: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5000  
 Step 27: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4758  
 Step 28: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4438  
 Step 29: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4049  
 Step 30: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.3595  
 Step 31: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3083  
 Step 32: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2519  
 Step 33: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1906  
 Step 34: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1249  
 Step 35: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0552  
 Step 36: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9819  
 Step 37: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9053  
 Step 38: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8257  
 Step 39: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7434  
 Step 40: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6586  
 Step 41: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5716  
 Step 42: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4826  
 Step 43: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3918  
 Step 44: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2994  
 Step 45: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2056  
 Step 46: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1104  
 Step 47: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0141  
 Step 48: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9168  
 Step 49: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8186  
 Step 50: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7196  
 Step 51: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6200  
 Step 52: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5198  
 Step 53: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4191  
 Step 54: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.3180  
 Step 55: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2166  
 Step 56: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1149  
 Step 57: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0130  
 Step 58: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9110  
 Step 59: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8088  
 Step 60: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7067  
 Step 61: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6045  
 Step 62: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5024  
 Step 63: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4003  
 Step 64: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2984  
 Step 65: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1966  
 Step 66: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0950  
 Step 67: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9936  
 Step 68: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8925  
 Step 69: Loss: 0.0290, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7916  
 Step 70: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6910  
 Step 71: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5907  
 Step 72: Loss: 0.0275, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4908  
 Step 73: Loss: 0.0270, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3912  
 Step 74: Loss: 0.0265, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2921  
 Step 75: Loss: 0.0260, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1934  
 Step 76: Loss: 0.0255, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0951  
 Step 77: Loss: 0.0250, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9973  
 Step 78: Loss: 0.0245, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 4.9000  
 Step 79: Loss: 0.0240, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8033  
 Step 80: Loss: 0.0236, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7071  
 Step 81: Loss: 0.0231, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.6115  
 Step 82: Loss: 0.0226, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.5166  
 Step 83: Loss: 0.0222, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.4223  
 Step 84: Loss: 0.0217, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3288  
 Step 85: Loss: 0.0213, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2361  
 Step 86: Loss: 0.0208, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1442  
 Step 87: Loss: 0.0204, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.0532  
 Step 88: Loss: 0.0200, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 3.9632  
 Step 89: Loss: 0.0195, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.8742  
 Step 90: Loss: 0.0191, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.7865  
 Step 91: Loss: 0.0188, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7001  
 Step 92: Loss: 0.0184, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.6151  
 Step 93: Loss: 0.0181, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.5317  
 Step 94: Loss: 0.0177, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.4502  
 Step 95: Loss: 0.0174, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.3707  
 Step 96: Loss: 0.0172, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.2935  
 Step 97: Loss: 0.0169, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.2189  
 Step 98: Loss: 0.0167, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.1473  
 Step 99: Loss: 0.0166, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.0790  
 Step 100: Loss: 0.0164, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.0145  
 Step 101: Loss: 0.0163, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 2.9542  
 Step 102: Loss: 0.0163, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0018, Distance: 2.8987  
 Step 103: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8483  
 Step 104: Loss: 0.0162, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8036  
 Step 105: Loss: 0.0162, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.7648  
 Step 106: Loss: 0.0162, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.7325  
 Step 107: Loss: 0.0162, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.7066  
 Step 108: Loss: 0.0162, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.6872  
 Step 109: Loss: 0.0161, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.6742  
 Step 110: Loss: 0.0161, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.6672  
 Step 111: Loss: 0.0160, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.6656  
 Step 112: Loss: 0.0159, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.6687  
 Step 113: Loss: 0.0159, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6756  
 Step 114: Loss: 0.0158, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.6856  
 Step 115: Loss: 0.0158, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.6977  
 Step 116: Loss: 0.0158, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.7109  
 Step 117: Loss: 0.0157, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7246  
 Step 118: Loss: 0.0157, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.7380  
 Step 119: Loss: 0.0157, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.7504  
 Step 120: Loss: 0.0157, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.7616  
 Step 121: Loss: 0.0157, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.7710  
 Step 122: Loss: 0.0157, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7785  
 Step 123: Loss: 0.0157, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7840  
 Step 124: Loss: 0.0156, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7874  
 Step 125: Loss: 0.0156, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7888  
 Step 126: Loss: 0.0156, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0017, Distance: 2.7882  
 Step 127: Loss: 0.0156, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7859  
 Step 128: Loss: 0.0156, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7820  
 Step 129: Loss: 0.0156, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7768  
 Step 130: Loss: 0.0156, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7705  
 Step 131: Loss: 0.0156, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7633  
 Step 132: Loss: 0.0156, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.7555  
 Step 133: Loss: 0.0155, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.7474  
 Step 134: Loss: 0.0155, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.7392  
 Step 135: Loss: 0.0155, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.7311  
 Step 136: Loss: 0.0155, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.7233  
 Step 137: Loss: 0.0155, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.7160  
 Step 138: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.7093  
 Step 139: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.7034  
 Step 140: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6983  
 Step 141: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6941  
 Step 142: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6907  
 Step 143: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6883  
 Step 144: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6867  
 Step 145: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6860  
 Step 146: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6859  
 Step 147: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6865  
 Step 148: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6876  
 Step 149: Loss: 0.0155, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6890  
 Step 150: Loss: 0.0154, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,

[illegible]

[illegible]

Aleatoric Entropy: 0.0019, Distance: 2.6828  
 Step 199: Loss: 0.0153, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6825  
 Step 00: Loss: 0.8501, Total Entropy: 0.8501, Epistemic Entropy: 0.0406,  
 Aleatoric Entropy: 0.8096, Distance: 0.0000  
 Step 01: Loss: 0.1069, Total Entropy: 0.0989, Epistemic Entropy: 0.0029,  
 Aleatoric Entropy: 0.0960, Distance: 1.6000  
 Step 02: Loss: 0.0255, Total Entropy: 0.0114, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0112, Distance: 2.8207  
 Step 03: Loss: 0.0209, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.7782  
 Step 04: Loss: 0.0233, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5561  
 Step 05: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2046  
 Step 06: Loss: 0.0288, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7543  
 Step 07: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2253  
 Step 08: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6320  
 Step 09: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9846  
 Step 10: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2911  
 Step 11: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5579  
 Step 12: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7901  
 Step 13: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9918  
 Step 14: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1664  
 Step 15: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3171  
 Step 16: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4463  
 Step 17: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5562  
 Step 18: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6488  
 Step 19: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7258  
 Step 20: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7886  
 Step 21: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8386  
 Step 22: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8770  
 Step 23: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9048  
 Step 24: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9230  
 Step 25: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9326  
 Step 26: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9342  
 Step 27: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9286  
 Step 28: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9165  
 Step 29: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8983  
 Step 30: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8748  
 Step 31: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8462  
 Step 32: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8132  
 Step 33: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7760  
 Step 34: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7352  
 Step 35: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6909  
 Step 36: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6435  
 Step 37: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5933  
 Step 38: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5405  
 Step 39: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4854  
 Step 40: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4282  
 Step 41: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3690  
 Step 42: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3080  
 Step 43: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2454  
 Step 44: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1813  
 Step 45: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1159  
 Step 46: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0492  
 Step 47: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9815  
 Step 48: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9127  
 Step 49: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8430  
 Step 50: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7725  
 Step 51: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7013  
 Step 52: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6294  
 Step 53: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5568  
 Step 54: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4838  
 Step 55: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4103  
 Step 56: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3363  
 Step 57: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2620  
 Step 58: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1873  
 Step 59: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1124  
 Step 60: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0373  
 Step 61: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9619  
 Step 62: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8864  
 Step 63: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8107  
 Step 64: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7350  
 Step 65: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6591  
 Step 66: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5832  
 Step 67: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5073  
 Step 68: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4314  
 Step 69: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3555  
 Step 70: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.2796  
 Step 71: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2038  
 Step 72: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1281  
 Step 73: Loss: 0.0303, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0525  
 Step 74: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9769  
 Step 75: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9015  
 Step 76: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8262  
 Step 77: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7511  
 Step 78: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6761  
 Step 79: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6013  
 Step 80: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5266  
 Step 81: Loss: 0.0273, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4522  
 Step 82: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3779  
 Step 83: Loss: 0.0265, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3039  
 Step 84: Loss: 0.0262, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2301  
 Step 85: Loss: 0.0258, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1565  
 Step 86: Loss: 0.0254, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0832  
 Step 87: Loss: 0.0251, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0101  
 Step 88: Loss: 0.0247, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9373  
 Step 89: Loss: 0.0244, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8648  
 Step 90: Loss: 0.0240, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7925  
 Step 91: Loss: 0.0237, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7206  
 Step 92: Loss: 0.0233, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6491  
 Step 93: Loss: 0.0230, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5778  
 Step 94: Loss: 0.0226, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 4.5070  
 Step 95: Loss: 0.0223, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4365  
 Step 96: Loss: 0.0219, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3665  
 Step 97: Loss: 0.0216, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2969  
 Step 98: Loss: 0.0213, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2278  
 Step 99: Loss: 0.0209, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1592  
 Step 100: Loss: 0.0206, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0912  
 Step 101: Loss: 0.0203, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0237  
 Step 102: Loss: 0.0200, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.9569  
 Step 103: Loss: 0.0197, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8908  
 Step 104: Loss: 0.0194, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8254  
 Step 105: Loss: 0.0191, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7609  
 Step 106: Loss: 0.0189, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.6972  
 Step 107: Loss: 0.0186, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.6345  
 Step 108: Loss: 0.0184, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.5729  
 Step 109: Loss: 0.0181, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5124  
 Step 110: Loss: 0.0179, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.4532  
 Step 111: Loss: 0.0177, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.3954  
 Step 112: Loss: 0.0175, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.3391  
 Step 113: Loss: 0.0173, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.2845  
 Step 114: Loss: 0.0172, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.2317  
 Step 115: Loss: 0.0170, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.1809  
 Step 116: Loss: 0.0169, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.1322  
 Step 117: Loss: 0.0168, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.0858  
 Step 118: Loss: 0.0167, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0015, Distance: 3.0419  
 Step 119: Loss: 0.0167, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.0006  
 Step 120: Loss: 0.0166, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.9621  
 Step 121: Loss: 0.0166, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.9265  
 Step 122: Loss: 0.0165, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8940  
 Step 123: Loss: 0.0165, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8646  
 Step 124: Loss: 0.0165, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8384  
 Step 125: Loss: 0.0165, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.8155  
 Step 126: Loss: 0.0165, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.7959  
 Step 127: Loss: 0.0165, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.7794  
 Step 128: Loss: 0.0164, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.7660  
 Step 129: Loss: 0.0164, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.7556  
 Step 130: Loss: 0.0164, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 2.7481  
 Step 131: Loss: 0.0164, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 2.7431  
 Step 132: Loss: 0.0164, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 2.7406  
 Step 133: Loss: 0.0164, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.7402  
 Step 134: Loss: 0.0163, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.7416  
 Step 135: Loss: 0.0163, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.7447  
 Step 136: Loss: 0.0163, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.7491  
 Step 137: Loss: 0.0163, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.7546  
 Step 138: Loss: 0.0163, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.7608  
 Step 139: Loss: 0.0163, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.7676  
 Step 140: Loss: 0.0162, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.7746  
 Step 141: Loss: 0.0162, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.7817  
 Step 142: Loss: 0.0162, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0021, Distance: 2.7814  
 Step 191: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7818  
 Step 192: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7820  
 Step 193: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7823  
 Step 194: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7824  
 Step 195: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7825  
 Step 196: Loss: 0.0160, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7825  
 Step 197: Loss: 0.0160, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7824  
 Step 198: Loss: 0.0160, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7823  
 Step 199: Loss: 0.0160, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7821  
 Step 00: Loss: 0.8415, Total Entropy: 0.8415, Epistemic Entropy: 0.0712,  
 Aleatoric Entropy: 0.7703, Distance: 0.0000  
 Step 01: Loss: 0.1499, Total Entropy: 0.1419, Epistemic Entropy: 0.0061,  
 Aleatoric Entropy: 0.1358, Distance: 1.6000  
 Step 02: Loss: 0.0286, Total Entropy: 0.0138, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0134, Distance: 2.9632  
 Step 03: Loss: 0.0224, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 4.0528  
 Step 04: Loss: 0.0252, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9343  
 Step 05: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6637  
 Step 06: Loss: 0.0314, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2768  
 Step 07: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7975  
 Step 08: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2426  
 Step 09: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6245  
 Step 10: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9527  
 Step 11: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2348  
 Step 12: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4768  
 Step 13: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6837  
 Step 14: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8596  
 Step 15: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0081  
 Step 16: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1323  
 Step 17: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2347  
 Step 18: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3176  
 Step 19: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3830  
 Step 20: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4326  
 Step 21: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4681  
 Step 22: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4907  
 Step 23: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5018  
 Step 24: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5024  
 Step 25: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4936  
 Step 26: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4761  
 Step 27: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4509  
 Step 28: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4187  
 Step 29: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3801  
 Step 30: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3357  
 Step 31: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2861  
 Step 32: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2318  
 Step 33: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1733  
 Step 34: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1109  
 Step 35: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0450  
 Step 36: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9759  
 Step 37: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9041  
 Step 38: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8297  
 Step 39: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7530  
 Step 40: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6742  
 Step 41: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5936  
 Step 42: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5113  
 Step 43: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4275  
 Step 44: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3424  
 Step 45: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2561  
 Step 46: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1688  
 Step 47: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0805  
 Step 48: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9914  
 Step 49: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9016  
 Step 50: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8112  
 Step 51: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7202  
 Step 52: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6288  
 Step 53: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5370  
 Step 54: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4448  
 Step 55: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3524  
 Step 56: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2597  
 Step 57: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1669  
 Step 58: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0739  
 Step 59: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9808  
 Step 60: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8876  
 Step 61: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7945  
 Step 62: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.7012  
 Step 63: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6080  
 Step 64: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5149  
 Step 65: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4217  
 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: 6.2358  
 Step 68: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1429  
 Step 69: Loss: 0.0303, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0502  
 Step 70: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9576  
 Step 71: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8653  
 Step 72: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7730  
 Step 73: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6810  
 Step 74: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5892  
 Step 75: Loss: 0.0275, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4977  
 Step 76: Loss: 0.0271, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4064  
 Step 77: Loss: 0.0266, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3154  
 Step 78: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2247  
 Step 79: Loss: 0.0257, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1344  
 Step 80: Loss: 0.0253, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0443  
 Step 81: Loss: 0.0249, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9547  
 Step 82: Loss: 0.0244, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8655  
 Step 83: Loss: 0.0240, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7767  
 Step 84: Loss: 0.0236, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6885  
 Step 85: Loss: 0.0232, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6007  
 Step 86: Loss: 0.0228, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.5136  
 Step 87: Loss: 0.0224, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4271  
 Step 88: Loss: 0.0220, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3414  
 Step 89: Loss: 0.0216, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.2566  
 Step 90: Loss: 0.0212, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1727  
 Step 91: Loss: 0.0209, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.0898  
 Step 92: Loss: 0.0206, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0082  
 Step 93: Loss: 0.0202, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.9281  
 Step 94: Loss: 0.0199, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.8495  
 Step 95: Loss: 0.0197, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7727  
 Step 96: Loss: 0.0194, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.6980  
 Step 97: Loss: 0.0192, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.6258  
 Step 98: Loss: 0.0190, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.5562  
 Step 99: Loss: 0.0189, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.4897  
 Step 100: Loss: 0.0188, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.4266  
 Step 101: Loss: 0.0187, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.3674  
 Step 102: Loss: 0.0186, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3124  
 Step 103: Loss: 0.0186, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2621  
 Step 104: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2168  
 Step 105: Loss: 0.0186, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1770  
 Step 106: Loss: 0.0186, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1428  
 Step 107: Loss: 0.0186, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1145  
 Step 108: Loss: 0.0186, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0921  
 Step 109: Loss: 0.0186, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.0757  
 Step 110: Loss: 0.0186, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0032, Distance: 3.0650  
 Step 111: Loss: 0.0186, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.0598  
 Step 112: Loss: 0.0185, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.0595  
 Step 113: Loss: 0.0185, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.0637  
 Step 114: Loss: 0.0185, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0717  
 Step 115: Loss: 0.0184, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0828  
 Step 116: Loss: 0.0184, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0962  
 Step 117: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1113  
 Step 118: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1274  
 Step 119: Loss: 0.0183, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1438  
 Step 120: Loss: 0.0183, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1599  
 Step 121: Loss: 0.0183, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1754  
 Step 122: Loss: 0.0183, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1898  
 Step 123: Loss: 0.0183, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2028  
 Step 124: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2142  
 Step 125: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2238  
 Step 126: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2315  
 Step 127: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2374  
 Step 128: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2415  
 Step 129: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2438  
 Step 130: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2444  
 Step 131: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2435  
 Step 132: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2413  
 Step 133: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2380  
 Step 134: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0023, Distance: 3.1813  
 Step 183: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1808  
 Step 184: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1804  
 Step 185: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1801  
 Step 186: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1799  
 Step 187: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1797  
 Step 188: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1796  
 Step 189: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1797  
 Step 190: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1797  
 Step 191: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1799  
 Step 192: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1800  
 Step 193: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1802  
 Step 194: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1805  
 Step 195: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1807  
 Step 196: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1810  
 Step 197: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1812  
 Step 198: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1815  
 Step 199: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1817  
 Step 00: Loss: 0.8357, Total Entropy: 0.8357, Epistemic Entropy: 0.0944,  
 Aleatoric Entropy: 0.7413, Distance: 0.0000  
 Step 01: Loss: 0.1815, Total Entropy: 0.1735, Epistemic Entropy: 0.0119,  
 Aleatoric Entropy: 0.1616, Distance: 1.6000  
 Step 02: Loss: 0.0314, Total Entropy: 0.0169, Epistemic Entropy: 0.0008,  
 Aleatoric Entropy: 0.0161, Distance: 2.9107  
 Step 03: Loss: 0.0225, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.9951  
 Step 04: Loss: 0.0250, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.8855  
 Step 05: Loss: 0.0283, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6299  
 Step 06: Loss: 0.0314, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 6.2613  
 Step 07: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8019  
 Step 08: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2677  
 Step 09: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6705  
 Step 10: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0195  
 Step 11: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3218  
 Step 12: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5833  
 Step 13: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8089  
 Step 14: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0026  
 Step 15: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1680  
 Step 16: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3080  
 Step 17: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4251  
 Step 18: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5218  
 Step 19: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5999  
 Step 20: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6613  
 Step 21: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7075  
 Step 22: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7399  
 Step 23: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7599  
 Step 24: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7685  
 Step 25: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7667  
 Step 26: Loss: 0.0488, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7556  
 Step 27: Loss: 0.0487, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7358  
 Step 28: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7083  
 Step 29: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6737  
 Step 30: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.6326  
 Step 31: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5856  
 Step 32: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5332  
 Step 33: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4759  
 Step 34: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4142  
 Step 35: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3484  
 Step 36: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2790  
 Step 37: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2061  
 Step 38: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1302  
 Step 39: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0516  
 Step 40: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9704  
 Step 41: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8869  
 Step 42: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8013  
 Step 43: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7139  
 Step 44: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6248  
 Step 45: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5341  
 Step 46: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4420  
 Step 47: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3487  
 Step 48: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2543  
 Step 49: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1588  
 Step 50: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0625  
 Step 51: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9653  
 Step 52: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8675  
 Step 53: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7690  
 Step 54: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.6700  
 Step 55: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5706  
 Step 56: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4707  
 Step 57: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3705  
 Step 58: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2700  
 Step 59: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1693  
 Step 60: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0685  
 Step 61: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9675  
 Step 62: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8664  
 Step 63: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7653  
 Step 64: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6642  
 Step 65: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5631  
 Step 66: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4621  
 Step 67: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3613  
 Step 68: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2605  
 Step 69: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1600  
 Step 70: Loss: 0.0303, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0597  
 Step 71: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9596  
 Step 72: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8597  
 Step 73: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7602  
 Step 74: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6610  
 Step 75: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5621  
 Step 76: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4636  
 Step 77: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3656  
 Step 78: Loss: 0.0264, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.2680  
 Step 79: Loss: 0.0259, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1709  
 Step 80: Loss: 0.0255, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0743  
 Step 81: Loss: 0.0250, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9783  
 Step 82: Loss: 0.0245, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8829  
 Step 83: Loss: 0.0241, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7881  
 Step 84: Loss: 0.0236, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6942  
 Step 85: Loss: 0.0232, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6010  
 Step 86: Loss: 0.0228, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5087  
 Step 87: Loss: 0.0224, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4174  
 Step 88: Loss: 0.0220, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3272  
 Step 89: Loss: 0.0216, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2383  
 Step 90: Loss: 0.0212, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1508  
 Step 91: Loss: 0.0209, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0649  
 Step 92: Loss: 0.0206, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.9807  
 Step 93: Loss: 0.0203, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.8986  
 Step 94: Loss: 0.0200, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.8189  
 Step 95: Loss: 0.0198, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.7418  
 Step 96: Loss: 0.0196, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.6677  
 Step 97: Loss: 0.0195, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.5970  
 Step 98: Loss: 0.0193, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.5302  
 Step 99: Loss: 0.0193, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.4676  
 Step 100: Loss: 0.0192, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4099  
 Step 101: Loss: 0.0192, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3573  
 Step 102: Loss: 0.0192, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0025, Distance: 3.3105  
 Step 103: Loss: 0.0191, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2696  
 Step 104: Loss: 0.0191, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2352  
 Step 105: Loss: 0.0191, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2072  
 Step 106: Loss: 0.0191, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.1857  
 Step 107: Loss: 0.0191, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.1706  
 Step 108: Loss: 0.0191, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.1615  
 Step 109: Loss: 0.0190, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.1581  
 Step 110: Loss: 0.0190, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.1596  
 Step 111: Loss: 0.0189, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1654  
 Step 112: Loss: 0.0189, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1747  
 Step 113: Loss: 0.0189, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1866  
 Step 114: Loss: 0.0188, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2004  
 Step 115: Loss: 0.0188, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2153  
 Step 116: Loss: 0.0188, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2306  
 Step 117: Loss: 0.0188, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2457  
 Step 118: Loss: 0.0188, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2601  
 Step 119: Loss: 0.0188, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2734  
 Step 120: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2853  
 Step 121: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2956  
 Step 122: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3041  
 Step 123: Loss: 0.0187, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3108  
 Step 124: Loss: 0.0187, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3156  
 Step 125: Loss: 0.0187, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3187  
 Step 126: Loss: 0.0187, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,





[illegible]

Aleatoric Entropy: 0.0023, Distance: 3.2588  
 Step 199: Loss: 0.0187, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2589  
 Step 00: Loss: 0.8299, Total Entropy: 0.8299, Epistemic Entropy: 0.0273,  
 Aleatoric Entropy: 0.8025, Distance: 0.0000  
 Step 01: Loss: 0.1865, Total Entropy: 0.1785, Epistemic Entropy: 0.0044,  
 Aleatoric Entropy: 0.1741, Distance: 1.6000  
 Step 02: Loss: 0.0309, Total Entropy: 0.0162, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0158, Distance: 2.9299  
 Step 03: Loss: 0.0225, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 4.0326  
 Step 04: Loss: 0.0252, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.9360  
 Step 05: Loss: 0.0286, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.6891  
 Step 06: Loss: 0.0317, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3257  
 Step 07: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8687  
 Step 08: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3347  
 Step 09: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7358  
 Step 10: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0816  
 Step 11: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3794  
 Step 12: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6354  
 Step 13: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8545  
 Step 14: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0410  
 Step 15: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1985  
 Step 16: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3299  
 Step 17: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4380  
 Step 18: Loss: 0.0476, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5251  
 Step 19: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5933  
 Step 20: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6442  
 Step 21: Loss: 0.0484, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6796  
 Step 22: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.7009  
 Step 23: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7094  
 Step 24: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.7062  
 Step 25: Loss: 0.0485, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6924  
 Step 26: Loss: 0.0483, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6690  
 Step 27: Loss: 0.0482, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6367  
 Step 28: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5965  
 Step 29: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5489  
 Step 30: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4947  
 Step 31: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4344  
 Step 32: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3687  
 Step 33: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2979  
 Step 34: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2226  
 Step 35: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1431  
 Step 36: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0599  
 Step 37: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9732  
 Step 38: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8834  
 Step 39: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7908  
 Step 40: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6957  
 Step 41: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5983  
 Step 42: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4988  
 Step 43: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3975  
 Step 44: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2946  
 Step 45: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1901  
 Step 46: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0844  
 Step 47: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9776  
 Step 48: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8699  
 Step 49: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7613  
 Step 50: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6519  
 Step 51: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5421  
 Step 52: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4317  
 Step 53: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3210  
 Step 54: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2100  
 Step 55: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0988  
 Step 56: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9875  
 Step 57: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8761  
 Step 58: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7649  
 Step 59: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6537  
 Step 60: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5426  
 Step 61: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4318  
 Step 62: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3213  
 Step 63: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2111  
 Step 64: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1013  
 Step 65: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9919  
 Step 66: Loss: 0.0294, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8829  
 Step 67: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7744  
 Step 68: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6665  
 Step 69: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5591  
 Step 70: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.4523  
 Step 71: Loss: 0.0268, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3462  
 Step 72: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2407  
 Step 73: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1360  
 Step 74: Loss: 0.0253, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0320  
 Step 75: Loss: 0.0248, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9289  
 Step 76: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8266  
 Step 77: Loss: 0.0238, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7253  
 Step 78: Loss: 0.0233, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6250  
 Step 79: Loss: 0.0229, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5257  
 Step 80: Loss: 0.0224, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4277  
 Step 81: Loss: 0.0220, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3309  
 Step 82: Loss: 0.0216, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2356  
 Step 83: Loss: 0.0212, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1418  
 Step 84: Loss: 0.0208, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0498  
 Step 85: Loss: 0.0205, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.9598  
 Step 86: Loss: 0.0202, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.8720  
 Step 87: Loss: 0.0199, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.7866  
 Step 88: Loss: 0.0196, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.7041  
 Step 89: Loss: 0.0194, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.6248  
 Step 90: Loss: 0.0192, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.5490  
 Step 91: Loss: 0.0191, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.4773  
 Step 92: Loss: 0.0190, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.4101  
 Step 93: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3479  
 Step 94: Loss: 0.0189, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0024, Distance: 3.2913  
 Step 95: Loss: 0.0189, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2408  
 Step 96: Loss: 0.0189, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1967  
 Step 97: Loss: 0.0189, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1596  
 Step 98: Loss: 0.0189, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.1297  
 Step 99: Loss: 0.0189, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.1071  
 Step 100: Loss: 0.0189, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.0917  
 Step 101: Loss: 0.0189, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 3.0832  
 Step 102: Loss: 0.0188, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.0813  
 Step 103: Loss: 0.0188, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 3.0851  
 Step 104: Loss: 0.0187, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.0940  
 Step 105: Loss: 0.0186, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1070  
 Step 106: Loss: 0.0186, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1230  
 Step 107: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1412  
 Step 108: Loss: 0.0185, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1606  
 Step 109: Loss: 0.0185, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1803  
 Step 110: Loss: 0.0185, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1995  
 Step 111: Loss: 0.0185, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2175  
 Step 112: Loss: 0.0185, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2339  
 Step 113: Loss: 0.0185, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2482  
 Step 114: Loss: 0.0185, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2601  
 Step 115: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2694  
 Step 116: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2762  
 Step 117: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2804  
 Step 118: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0020, Distance: 3.2822  
 Step 119: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2817  
 Step 120: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2791  
 Step 121: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2747  
 Step 122: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2688  
 Step 123: Loss: 0.0185, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2617  
 Step 124: Loss: 0.0184, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2536  
 Step 125: Loss: 0.0184, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2449  
 Step 126: Loss: 0.0184, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2358  
 Step 127: Loss: 0.0184, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2266  
 Step 128: Loss: 0.0184, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2176  
 Step 129: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2090  
 Step 130: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2011  
 Step 131: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1939  
 Step 132: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1877  
 Step 133: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1824  
 Step 134: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1783  
 Step 135: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1753  
 Step 136: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1733  
 Step 137: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1724  
 Step 138: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1725  
 Step 139: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1734  
 Step 140: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1751  
 Step 141: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1774  
 Step 142: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,



[illegible]

Aleatoric Entropy: 0.0023, Distance: 3.2012  
 Step 191: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2012  
 Step 192: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2011  
 Step 193: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2009  
 Step 194: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2008  
 Step 195: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2006  
 Step 196: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2004  
 Step 197: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2002  
 Step 198: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2000  
 Step 199: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1998  
 Step 00: Loss: 0.8277, Total Entropy: 0.8277, Epistemic Entropy: 0.0399,  
 Aleatoric Entropy: 0.7878, Distance: 0.0000  
 Step 01: Loss: 0.1647, Total Entropy: 0.1567, Epistemic Entropy: 0.0060,  
 Aleatoric Entropy: 0.1507, Distance: 1.6000  
 Step 02: Loss: 0.0294, Total Entropy: 0.0149, Epistemic Entropy: 0.0006,  
 Aleatoric Entropy: 0.0143, Distance: 2.9034  
 Step 03: Loss: 0.0223, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.9707  
 Step 04: Loss: 0.0249, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.8436  
 Step 05: Loss: 0.0281, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.5713  
 Step 06: Loss: 0.0311, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.1866  
 Step 07: Loss: 0.0336, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.7118  
 Step 08: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1628  
 Step 09: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5513  
 Step 10: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8863  
 Step 11: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1750  
 Step 12: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4232  
 Step 13: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6356  
 Step 14: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8165  
 Step 15: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9691  
 Step 16: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0965  
 Step 17: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2014  
 Step 18: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2859  
 Step 19: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3521  
 Step 20: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4019  
 Step 21: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4369  
 Step 22: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4584  
 Step 23: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4678  
 Step 24: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4663  
 Step 25: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4549  
 Step 26: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4346  
 Step 27: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4061  
 Step 28: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3703  
 Step 29: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3278  
 Step 30: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2794  
 Step 31: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2255  
 Step 32: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1667  
 Step 33: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1034  
 Step 34: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0361  
 Step 35: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9653  
 Step 36: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8913  
 Step 37: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8144  
 Step 38: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.7349  
 Step 39: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6531  
 Step 40: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5694  
 Step 41: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4838  
 Step 42: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3967  
 Step 43: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3082  
 Step 44: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2185  
 Step 45: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1277  
 Step 46: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0360  
 Step 47: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9435  
 Step 48: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8503  
 Step 49: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7566  
 Step 50: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6624  
 Step 51: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5678  
 Step 52: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4729  
 Step 53: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3777  
 Step 54: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2824  
 Step 55: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1869  
 Step 56: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0914  
 Step 57: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9958  
 Step 58: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9003  
 Step 59: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8048  
 Step 60: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7095  
 Step 61: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6142  
 Step 62: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.5191  
 Step 63: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4242  
 Step 64: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3296  
 Step 65: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2351  
 Step 66: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1409  
 Step 67: Loss: 0.0303, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0470  
 Step 68: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9534  
 Step 69: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8601  
 Step 70: Loss: 0.0289, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7671  
 Step 71: Loss: 0.0284, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6744  
 Step 72: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5821  
 Step 73: Loss: 0.0275, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4902  
 Step 74: Loss: 0.0271, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3986  
 Step 75: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3075  
 Step 76: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2168  
 Step 77: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1265  
 Step 78: Loss: 0.0253, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0367  
 Step 79: Loss: 0.0249, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9473  
 Step 80: Loss: 0.0245, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8585  
 Step 81: Loss: 0.0240, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7702  
 Step 82: Loss: 0.0236, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6825  
 Step 83: Loss: 0.0232, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5955  
 Step 84: Loss: 0.0228, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5092  
 Step 85: Loss: 0.0224, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4236  
 Step 86: Loss: 0.0220, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0003, Distance: 4.3388  
 Step 87: Loss: 0.0217, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2550  
 Step 88: Loss: 0.0213, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1721  
 Step 89: Loss: 0.0210, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0904  
 Step 90: Loss: 0.0206, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0099  
 Step 91: Loss: 0.0203, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.9307  
 Step 92: Loss: 0.0200, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.8532  
 Step 93: Loss: 0.0197, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7773  
 Step 94: Loss: 0.0195, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.7034  
 Step 95: Loss: 0.0192, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.6316  
 Step 96: Loss: 0.0190, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.5623  
 Step 97: Loss: 0.0189, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.4957  
 Step 98: Loss: 0.0187, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.4322  
 Step 99: Loss: 0.0186, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.3720  
 Step 100: Loss: 0.0185, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.3156  
 Step 101: Loss: 0.0184, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2633  
 Step 102: Loss: 0.0183, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2154  
 Step 103: Loss: 0.0183, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1723  
 Step 104: Loss: 0.0183, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1343  
 Step 105: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1016  
 Step 106: Loss: 0.0182, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0744  
 Step 107: Loss: 0.0182, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0527  
 Step 108: Loss: 0.0182, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0364  
 Step 109: Loss: 0.0182, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0253  
 Step 110: Loss: 0.0182, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0030, Distance: 3.0190  
 Step 111: Loss: 0.0181, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0172  
 Step 112: Loss: 0.0181, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0192  
 Step 113: Loss: 0.0181, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0245  
 Step 114: Loss: 0.0181, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0323  
 Step 115: Loss: 0.0180, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0421  
 Step 116: Loss: 0.0180, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0532  
 Step 117: Loss: 0.0180, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0650  
 Step 118: Loss: 0.0180, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0769  
 Step 119: Loss: 0.0180, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0886  
 Step 120: Loss: 0.0180, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0996  
 Step 121: Loss: 0.0180, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1097  
 Step 122: Loss: 0.0180, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1186  
 Step 123: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1262  
 Step 124: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1324  
 Step 125: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1372  
 Step 126: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1405  
 Step 127: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1426  
 Step 128: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1433  
 Step 129: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1429  
 Step 130: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1416  
 Step 131: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1394  
 Step 132: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1364  
 Step 133: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1330  
 Step 134: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0023, Distance: 3.0993  
 Step 183: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0992  
 Step 184: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0993  
 Step 185: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0993  
 Step 186: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0993  
 Step 187: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0994  
 Step 188: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0995  
 Step 189: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0996  
 Step 190: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0996  
 Step 191: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0997  
 Step 192: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0998  
 Step 193: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0999  
 Step 194: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0999  
 Step 195: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1000  
 Step 196: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1000  
 Step 197: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1001  
 Step 198: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1001  
 Step 199: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1001  
 Step 00: Loss: 0.8276, Total Entropy: 0.8276, Epistemic Entropy: 0.0664,  
 Aleatoric Entropy: 0.7611, Distance: 0.0000  
 Step 01: Loss: 0.1100, Total Entropy: 0.1020, Epistemic Entropy: 0.0052,  
 Aleatoric Entropy: 0.0968, Distance: 1.6000  
 Step 02: Loss: 0.0261, Total Entropy: 0.0118, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0113, Distance: 2.8660  
 Step 03: Loss: 0.0214, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.8602  
 Step 04: Loss: 0.0239, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.6658  
 Step 05: Loss: 0.0268, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.3353  
 Step 06: Loss: 0.0296, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.9007  
 Step 07: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3833  
 Step 08: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7981  
 Step 09: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1558  
 Step 10: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4649  
 Step 11: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7319  
 Step 12: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9623  
 Step 13: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1606  
 Step 14: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3304  
 Step 15: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4751  
 Step 16: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5973  
 Step 17: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6996  
 Step 18: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7839  
 Step 19: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8522  
 Step 20: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9059  
 Step 21: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9467  
 Step 22: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9756  
 Step 23: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9938  
 Step 24: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0024  
 Step 25: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0021  
 Step 26: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9938  
 Step 27: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9783  
 Step 28: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9561  
 Step 29: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9280  
 Step 30: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8944  
 Step 31: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8558  
 Step 32: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8128  
 Step 33: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7657  
 Step 34: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7149  
 Step 35: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6607  
 Step 36: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6035  
 Step 37: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5435  
 Step 38: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4810  
 Step 39: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4162  
 Step 40: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3494  
 Step 41: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2808  
 Step 42: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2106  
 Step 43: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1389  
 Step 44: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0659  
 Step 45: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9919  
 Step 46: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9169  
 Step 47: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8410  
 Step 48: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7644  
 Step 49: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6872  
 Step 50: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6094  
 Step 51: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5312  
 Step 52: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4525  
 Step 53: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3736  
 Step 54: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.2944  
 Step 55: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2151  
 Step 56: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1356  
 Step 57: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0559  
 Step 58: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9763  
 Step 59: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8965  
 Step 60: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8168  
 Step 61: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7371  
 Step 62: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6575  
 Step 63: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5780  
 Step 64: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4985  
 Step 65: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4192  
 Step 66: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3400  
 Step 67: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2609  
 Step 68: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1821  
 Step 69: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1034  
 Step 70: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0249  
 Step 71: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9466  
 Step 72: Loss: 0.0294, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8685  
 Step 73: Loss: 0.0290, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7907  
 Step 74: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7131  
 Step 75: Loss: 0.0282, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6358  
 Step 76: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5588  
 Step 77: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4821  
 Step 78: Loss: 0.0270, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 5.4056  
Step 79: Loss: 0.0267, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.3295  
Step 80: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.2537  
Step 81: Loss: 0.0259, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.1783  
Step 82: Loss: 0.0255, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.1032  
Step 83: Loss: 0.0252, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.0284  
Step 84: Loss: 0.0248, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 4.9541  
Step 85: Loss: 0.0245, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 4.8801  
Step 86: Loss: 0.0241, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.8065  
Step 87: Loss: 0.0237, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.7334  
Step 88: Loss: 0.0234, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.6607  
Step 89: Loss: 0.0230, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.5885  
Step 90: Loss: 0.0227, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.5167  
Step 91: Loss: 0.0223, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.4455  
Step 92: Loss: 0.0220, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.3748  
Step 93: Loss: 0.0217, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 4.3047  
Step 94: Loss: 0.0213, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.2352  
Step 95: Loss: 0.0210, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.1663  
Step 96: Loss: 0.0207, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.0981  
Step 97: Loss: 0.0204, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 4.0307  
Step 98: Loss: 0.0201, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 3.9640  
Step 99: Loss: 0.0198, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 3.8981  
Step 100: Loss: 0.0196, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 3.8331  
Step 101: Loss: 0.0193, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 3.7691  
Step 102: Loss: 0.0190, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0005, Distance: 3.7061  
 Step 103: Loss: 0.0188, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.6443  
 Step 104: Loss: 0.0186, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5837  
 Step 105: Loss: 0.0183, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.5245  
 Step 106: Loss: 0.0181, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.4667  
 Step 107: Loss: 0.0180, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.4106  
 Step 108: Loss: 0.0178, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.3561  
 Step 109: Loss: 0.0176, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.3036  
 Step 110: Loss: 0.0175, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.2531  
 Step 111: Loss: 0.0174, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.2049  
 Step 112: Loss: 0.0173, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.1590  
 Step 113: Loss: 0.0172, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.1157  
 Step 114: Loss: 0.0172, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0751  
 Step 115: Loss: 0.0171, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0374  
 Step 116: Loss: 0.0171, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0027  
 Step 117: Loss: 0.0170, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9712  
 Step 118: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9430  
 Step 119: Loss: 0.0170, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.9181  
 Step 120: Loss: 0.0170, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.8966  
 Step 121: Loss: 0.0170, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8784  
 Step 122: Loss: 0.0169, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8634  
 Step 123: Loss: 0.0169, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.8517  
 Step 124: Loss: 0.0169, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.8430  
 Step 125: Loss: 0.0169, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.8371  
 Step 126: Loss: 0.0169, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0026, Distance: 2.8339  
 Step 127: Loss: 0.0169, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.8329  
 Step 128: Loss: 0.0168, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.8340  
 Step 129: Loss: 0.0168, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8368  
 Step 130: Loss: 0.0168, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8410  
 Step 131: Loss: 0.0168, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8463  
 Step 132: Loss: 0.0168, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.8523  
 Step 133: Loss: 0.0167, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.8589  
 Step 134: Loss: 0.0167, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8656  
 Step 135: Loss: 0.0167, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8724  
 Step 136: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8790  
 Step 137: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8852  
 Step 138: Loss: 0.0167, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8909  
 Step 139: Loss: 0.0167, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8960  
 Step 140: Loss: 0.0167, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9005  
 Step 141: Loss: 0.0167, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9042  
 Step 142: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9072  
 Step 143: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9094  
 Step 144: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9109  
 Step 145: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9117  
 Step 146: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9118  
 Step 147: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9113  
 Step 148: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9103  
 Step 149: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9088  
 Step 150: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,

[illegible]



Aleatoric Entropy: 0.0021, Distance: 2.8741  
 Step 199: Loss: 0.0166, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8739  
 Step 00: Loss: 0.8269, Total Entropy: 0.8269, Epistemic Entropy: 0.0464,  
 Aleatoric Entropy: 0.7805, Distance: 0.0000  
 Step 01: Loss: 0.1303, Total Entropy: 0.1223, Epistemic Entropy: 0.0056,  
 Aleatoric Entropy: 0.1168, Distance: 1.6000  
 Step 02: Loss: 0.0324, Total Entropy: 0.0181, Epistemic Entropy: 0.0007,  
 Aleatoric Entropy: 0.0174, Distance: 2.8498  
 Step 03: Loss: 0.0230, Total Entropy: 0.0038, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0037, Distance: 3.8389  
 Step 04: Loss: 0.0243, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 4.6431  
 Step 05: Loss: 0.0269, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.3122  
 Step 06: Loss: 0.0295, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8776  
 Step 07: Loss: 0.0319, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.3602  
 Step 08: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7750  
 Step 09: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1329  
 Step 10: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4424  
 Step 11: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7101  
 Step 12: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9415  
 Step 13: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1411  
 Step 14: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3125  
 Step 15: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4591  
 Step 16: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5835  
 Step 17: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6881  
 Step 18: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7749  
 Step 19: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8457  
 Step 20: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9022  
 Step 21: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9456  
 Step 22: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.9773  
 Step 23: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9984  
 Step 24: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0098  
 Step 25: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0125  
 Step 26: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0073  
 Step 27: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9949  
 Step 28: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9760  
 Step 29: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9512  
 Step 30: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9210  
 Step 31: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8860  
 Step 32: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8467  
 Step 33: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8033  
 Step 34: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7563  
 Step 35: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7060  
 Step 36: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6527  
 Step 37: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5967  
 Step 38: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5383  
 Step 39: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4777  
 Step 40: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4151  
 Step 41: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3508  
 Step 42: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2849  
 Step 43: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2177  
 Step 44: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1492  
 Step 45: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0796  
 Step 46: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0090  
 Step 47: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9377  
 Step 48: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8656  
 Step 49: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7929  
 Step 50: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7196  
 Step 51: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6459  
 Step 52: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5718  
 Step 53: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4974  
 Step 54: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4228  
 Step 55: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3479  
 Step 56: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2729  
 Step 57: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1978  
 Step 58: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1227  
 Step 59: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0475  
 Step 60: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9723  
 Step 61: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8972  
 Step 62: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8222  
 Step 63: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7473  
 Step 64: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6725  
 Step 65: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5979  
 Step 66: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5235  
 Step 67: Loss: 0.0323, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4492  
 Step 68: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3752  
 Step 69: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3014  
 Step 70: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 6.2279  
 Step 71: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1546  
 Step 72: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0816  
 Step 73: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0089  
 Step 74: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9365  
 Step 75: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8643  
 Step 76: Loss: 0.0290, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7925  
 Step 77: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7210  
 Step 78: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6498  
 Step 79: Loss: 0.0279, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5790  
 Step 80: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5084  
 Step 81: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4382  
 Step 82: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3684  
 Step 83: Loss: 0.0265, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2989  
 Step 84: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2297  
 Step 85: Loss: 0.0259, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1609  
 Step 86: Loss: 0.0255, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0925  
 Step 87: Loss: 0.0252, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0245  
 Step 88: Loss: 0.0249, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9569  
 Step 89: Loss: 0.0246, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8896  
 Step 90: Loss: 0.0242, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8228  
 Step 91: Loss: 0.0239, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7564  
 Step 92: Loss: 0.0236, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6905  
 Step 93: Loss: 0.0233, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6250  
 Step 94: Loss: 0.0230, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.5600  
 Step 95: Loss: 0.0227, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4955  
 Step 96: Loss: 0.0224, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4316  
 Step 97: Loss: 0.0221, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3682  
 Step 98: Loss: 0.0218, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3054  
 Step 99: Loss: 0.0215, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.2433  
 Step 100: Loss: 0.0213, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1819  
 Step 101: Loss: 0.0210, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1212  
 Step 102: Loss: 0.0208, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.0614  
 Step 103: Loss: 0.0205, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0023  
 Step 104: Loss: 0.0203, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.9443  
 Step 105: Loss: 0.0201, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.8872  
 Step 106: Loss: 0.0199, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.8311  
 Step 107: Loss: 0.0197, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7763  
 Step 108: Loss: 0.0195, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7227  
 Step 109: Loss: 0.0193, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.6704  
 Step 110: Loss: 0.0191, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.6196  
 Step 111: Loss: 0.0190, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.5704  
 Step 112: Loss: 0.0189, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.5229  
 Step 113: Loss: 0.0188, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.4771  
 Step 114: Loss: 0.0186, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.4333  
 Step 115: Loss: 0.0186, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.3915  
 Step 116: Loss: 0.0185, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.3518  
 Step 117: Loss: 0.0184, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.3144  
 Step 118: Loss: 0.0184, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0019, Distance: 3.2794  
 Step 119: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2468  
 Step 120: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2168  
 Step 121: Loss: 0.0183, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1894  
 Step 122: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1646  
 Step 123: Loss: 0.0182, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1424  
 Step 124: Loss: 0.0182, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1229  
 Step 125: Loss: 0.0182, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1061  
 Step 126: Loss: 0.0182, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0918  
 Step 127: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0800  
 Step 128: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0706  
 Step 129: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0635  
 Step 130: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0585  
 Step 131: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0554  
 Step 132: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0540  
 Step 133: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0542  
 Step 134: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0557  
 Step 135: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0583  
 Step 136: Loss: 0.0181, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0618  
 Step 137: Loss: 0.0180, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0660  
 Step 138: Loss: 0.0180, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0708  
 Step 139: Loss: 0.0180, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0759  
 Step 140: Loss: 0.0180, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0811  
 Step 141: Loss: 0.0180, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0864  
 Step 142: Loss: 0.0180, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0024, Distance: 3.0987  
 Step 191: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0990  
 Step 192: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0993  
 Step 193: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0995  
 Step 194: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0997  
 Step 195: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0999  
 Step 196: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1000  
 Step 197: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1001  
 Step 198: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1002  
 Step 199: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1003  
 Step 00: Loss: 0.8021, Total Entropy: 0.8021, Epistemic Entropy: 0.0509,  
 Aleatoric Entropy: 0.7512, Distance: 0.0000  
 Step 01: Loss: 0.1557, Total Entropy: 0.1477, Epistemic Entropy: 0.0123,  
 Aleatoric Entropy: 0.1354, Distance: 1.6000  
 Step 02: Loss: 0.0246, Total Entropy: 0.0100, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0096, Distance: 2.9188  
 Step 03: Loss: 0.0212, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.9872  
 Step 04: Loss: 0.0245, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8555  
 Step 05: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5765  
 Step 06: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1844  
 Step 07: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7020  
 Step 08: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1453  
 Step 09: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5260  
 Step 10: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8534  
 Step 11: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1344  
 Step 12: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3748  
 Step 13: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5794  
 Step 14: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.7522  
 Step 15: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8967  
 Step 16: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0156  
 Step 17: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1118  
 Step 18: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1874  
 Step 19: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2445  
 Step 20: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2849  
 Step 21: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3102  
 Step 22: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3219  
 Step 23: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3213  
 Step 24: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3096  
 Step 25: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2877  
 Step 26: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2567  
 Step 27: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2174  
 Step 28: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1705  
 Step 29: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1167  
 Step 30: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0567  
 Step 31: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9909  
 Step 32: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9200  
 Step 33: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8443  
 Step 34: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7644  
 Step 35: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6806  
 Step 36: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5932  
 Step 37: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5027  
 Step 38: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.4093  
 Step 39: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3133  
 Step 40: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2150  
 Step 41: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1146  
 Step 42: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0123  
 Step 43: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9084  
 Step 44: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8029  
 Step 45: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6961  
 Step 46: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5882  
 Step 47: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4792  
 Step 48: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3693  
 Step 49: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2587  
 Step 50: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1475  
 Step 51: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0358  
 Step 52: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9236  
 Step 53: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8112  
 Step 54: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6986  
 Step 55: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5858  
 Step 56: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4731  
 Step 57: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3603  
 Step 58: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2477  
 Step 59: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1353  
 Step 60: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0230  
 Step 61: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9111  
 Step 62: Loss: 0.0290, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 5.7995  
 Step 63: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6884  
 Step 64: Loss: 0.0279, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5776  
 Step 65: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4673  
 Step 66: Loss: 0.0268, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3575  
 Step 67: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2483  
 Step 68: Loss: 0.0257, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1396  
 Step 69: Loss: 0.0252, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0316  
 Step 70: Loss: 0.0247, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9242  
 Step 71: Loss: 0.0241, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8175  
 Step 72: Loss: 0.0236, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7116  
 Step 73: Loss: 0.0231, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6065  
 Step 74: Loss: 0.0226, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5023  
 Step 75: Loss: 0.0221, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3990  
 Step 76: Loss: 0.0216, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2967  
 Step 77: Loss: 0.0212, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1956  
 Step 78: Loss: 0.0207, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0956  
 Step 79: Loss: 0.0202, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.9969  
 Step 80: Loss: 0.0198, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8997  
 Step 81: Loss: 0.0194, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.8041  
 Step 82: Loss: 0.0190, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.7103  
 Step 83: Loss: 0.0186, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.6184  
 Step 84: Loss: 0.0183, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5287  
 Step 85: Loss: 0.0180, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.4415  
 Step 86: Loss: 0.0177, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0009, Distance: 3.3570  
 Step 87: Loss: 0.0174, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.2757  
 Step 88: Loss: 0.0172, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.1979  
 Step 89: Loss: 0.0171, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.1240  
 Step 90: Loss: 0.0169, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.0545  
 Step 91: Loss: 0.0168, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.9900  
 Step 92: Loss: 0.0168, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9309  
 Step 93: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8777  
 Step 94: Loss: 0.0167, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8310  
 Step 95: Loss: 0.0167, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.7912  
 Step 96: Loss: 0.0167, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7585  
 Step 97: Loss: 0.0167, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7332  
 Step 98: Loss: 0.0167, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7152  
 Step 99: Loss: 0.0167, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.7043  
 Step 100: Loss: 0.0166, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7001  
 Step 101: Loss: 0.0166, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7019  
 Step 102: Loss: 0.0165, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7090  
 Step 103: Loss: 0.0164, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.7204  
 Step 104: Loss: 0.0164, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.7351  
 Step 105: Loss: 0.0163, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.7520  
 Step 106: Loss: 0.0163, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.7702  
 Step 107: Loss: 0.0163, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.7886  
 Step 108: Loss: 0.0163, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8064  
 Step 109: Loss: 0.0162, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8231  
 Step 110: Loss: 0.0162, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0020, Distance: 2.8380  
 Step 111: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8507  
 Step 112: Loss: 0.0162, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8610  
 Step 113: Loss: 0.0162, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8687  
 Step 114: Loss: 0.0162, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8738  
 Step 115: Loss: 0.0162, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8764  
 Step 116: Loss: 0.0162, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8766  
 Step 117: Loss: 0.0162, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8747  
 Step 118: Loss: 0.0162, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8707  
 Step 119: Loss: 0.0162, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8652  
 Step 120: Loss: 0.0162, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8582  
 Step 121: Loss: 0.0162, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8502  
 Step 122: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8414  
 Step 123: Loss: 0.0162, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8322  
 Step 124: Loss: 0.0161, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8229  
 Step 125: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8137  
 Step 126: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8049  
 Step 127: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7967  
 Step 128: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7892  
 Step 129: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.7827  
 Step 130: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.7773  
 Step 131: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.7729  
 Step 132: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.7696  
 Step 133: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.7674  
 Step 134: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,



[illegible]

Aleatoric Entropy: 0.0021, Distance: 2.7886  
 Step 183: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7887  
 Step 184: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7887  
 Step 185: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7886  
 Step 186: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7885  
 Step 187: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7883  
 Step 188: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7882  
 Step 189: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7880  
 Step 190: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7877  
 Step 191: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7875  
 Step 192: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7873  
 Step 193: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7871  
 Step 194: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7870  
 Step 195: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7869  
 Step 196: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7868  
 Step 197: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7867  
 Step 198: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7867  
 Step 199: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7867  
 Step 00: Loss: 0.7975, Total Entropy: 0.7975, Epistemic Entropy: 0.0206,  
 Aleatoric Entropy: 0.7769, Distance: 0.0000  
 Step 01: Loss: 0.1119, Total Entropy: 0.1039, Epistemic Entropy: 0.0023,  
 Aleatoric Entropy: 0.1017, Distance: 1.6000  
 Step 02: Loss: 0.0300, Total Entropy: 0.0158, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0155, Distance: 2.8441  
 Step 03: Loss: 0.0227, Total Entropy: 0.0036, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.8189  
 Step 04: Loss: 0.0241, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 4.6094  
 Step 05: Loss: 0.0267, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.2668  
 Step 06: Loss: 0.0293, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 5.8224  
 Step 07: Loss: 0.0316, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.2972  
 Step 08: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7058  
 Step 09: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0590  
 Step 10: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3650  
 Step 11: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6303  
 Step 12: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8602  
 Step 13: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0591  
 Step 14: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2304  
 Step 15: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3773  
 Step 16: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5024  
 Step 17: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6080  
 Step 18: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6961  
 Step 19: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7684  
 Step 20: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8267  
 Step 21: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8721  
 Step 22: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9061  
 Step 23: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9296  
 Step 24: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9437  
 Step 25: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9494  
 Step 26: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9473  
 Step 27: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9383  
 Step 28: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9229  
 Step 29: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9018  
 Step 30: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8755  
 Step 31: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8444  
 Step 32: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8090  
 Step 33: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7697  
 Step 34: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7267  
 Step 35: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6806  
 Step 36: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6314  
 Step 37: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5796  
 Step 38: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5253  
 Step 39: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4688  
 Step 40: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4102  
 Step 41: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3499  
 Step 42: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2879  
 Step 43: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2243  
 Step 44: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1595  
 Step 45: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0934  
 Step 46: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0262  
 Step 47: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9580  
 Step 48: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8888  
 Step 49: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8188  
 Step 50: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7481  
 Step 51: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6767  
 Step 52: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6047  
 Step 53: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5321  
 Step 54: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 7.4590  
 Step 55: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3855  
 Step 56: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3116  
 Step 57: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2374  
 Step 58: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1629  
 Step 59: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0881  
 Step 60: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0131  
 Step 61: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9380  
 Step 62: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8627  
 Step 63: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7874  
 Step 64: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7119  
 Step 65: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6364  
 Step 66: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5609  
 Step 67: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4853  
 Step 68: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4098  
 Step 69: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3344  
 Step 70: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2590  
 Step 71: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1837  
 Step 72: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1085  
 Step 73: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0334  
 Step 74: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9585  
 Step 75: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8837  
 Step 76: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8091  
 Step 77: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7347  
 Step 78: Loss: 0.0284, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.6605  
 Step 79: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5866  
 Step 80: Loss: 0.0276, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5128  
 Step 81: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4394  
 Step 82: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3662  
 Step 83: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2933  
 Step 84: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2207  
 Step 85: Loss: 0.0259, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1485  
 Step 86: Loss: 0.0255, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0767  
 Step 87: Loss: 0.0252, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0052  
 Step 88: Loss: 0.0248, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9341  
 Step 89: Loss: 0.0245, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8635  
 Step 90: Loss: 0.0242, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7934  
 Step 91: Loss: 0.0239, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7237  
 Step 92: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6546  
 Step 93: Loss: 0.0232, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5861  
 Step 94: Loss: 0.0229, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5181  
 Step 95: Loss: 0.0226, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4509  
 Step 96: Loss: 0.0223, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3843  
 Step 97: Loss: 0.0220, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3184  
 Step 98: Loss: 0.0218, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.2534  
 Step 99: Loss: 0.0215, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1893  
 Step 100: Loss: 0.0212, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1261  
 Step 101: Loss: 0.0210, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0639  
 Step 102: Loss: 0.0207, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0007, Distance: 4.0028  
 Step 103: Loss: 0.0205, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.9428  
 Step 104: Loss: 0.0203, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.8842  
 Step 105: Loss: 0.0201, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.8268  
 Step 106: Loss: 0.0199, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.7710  
 Step 107: Loss: 0.0197, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.7167  
 Step 108: Loss: 0.0196, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.6641  
 Step 109: Loss: 0.0194, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.6133  
 Step 110: Loss: 0.0193, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.5645  
 Step 111: Loss: 0.0192, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.5176  
 Step 112: Loss: 0.0191, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.4728  
 Step 113: Loss: 0.0190, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.4303  
 Step 114: Loss: 0.0189, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3901  
 Step 115: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3524  
 Step 116: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3171  
 Step 117: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2844  
 Step 118: Loss: 0.0187, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2543  
 Step 119: Loss: 0.0187, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2269  
 Step 120: Loss: 0.0186, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2022  
 Step 121: Loss: 0.0186, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1802  
 Step 122: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1608  
 Step 123: Loss: 0.0186, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1441  
 Step 124: Loss: 0.0186, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1301  
 Step 125: Loss: 0.0186, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1185  
 Step 126: Loss: 0.0186, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0030, Distance: 3.1094  
 Step 127: Loss: 0.0186, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1026  
 Step 128: Loss: 0.0185, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0980  
 Step 129: Loss: 0.0185, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0954  
 Step 130: Loss: 0.0185, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0946  
 Step 131: Loss: 0.0185, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0954  
 Step 132: Loss: 0.0185, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0976  
 Step 133: Loss: 0.0185, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1011  
 Step 134: Loss: 0.0185, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1056  
 Step 135: Loss: 0.0185, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1108  
 Step 136: Loss: 0.0185, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1166  
 Step 137: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1228  
 Step 138: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1292  
 Step 139: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1357  
 Step 140: Loss: 0.0184, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1420  
 Step 141: Loss: 0.0184, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1481  
 Step 142: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1538  
 Step 143: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1591  
 Step 144: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1639  
 Step 145: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1682  
 Step 146: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1718  
 Step 147: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1748  
 Step 148: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1772  
 Step 149: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1790  
 Step 150: Loss: 0.0184, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,



[illegible]

Aleatoric Entropy: 0.0025, Distance: 3.1551  
 Step 199: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1551  
 Step 00: Loss: 0.7937, Total Entropy: 0.7937, Epistemic Entropy: 0.0155,  
 Aleatoric Entropy: 0.7781, Distance: 0.0000  
 Step 01: Loss: 0.0920, Total Entropy: 0.0840, Epistemic Entropy: 0.0009,  
 Aleatoric Entropy: 0.0831, Distance: 1.6000  
 Step 02: Loss: 0.0252, Total Entropy: 0.0112, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0111, Distance: 2.8025  
 Step 03: Loss: 0.0209, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.7358  
 Step 04: Loss: 0.0231, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.4948  
 Step 05: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1275  
 Step 06: Loss: 0.0284, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6631  
 Step 07: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1211  
 Step 08: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5154  
 Step 09: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8563  
 Step 10: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1519  
 Step 11: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4085  
 Step 12: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6311  
 Step 13: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8241  
 Step 14: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9909  
 Step 15: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1343  
 Step 16: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2568  
 Step 17: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3605  
 Step 18: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4474  
 Step 19: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5189  
 Step 20: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5767  
 Step 21: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6220  
 Step 22: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.6560  
 Step 23: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6797  
 Step 24: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6942  
 Step 25: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7003  
 Step 26: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6987  
 Step 27: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6903  
 Step 28: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6755  
 Step 29: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6550  
 Step 30: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6293  
 Step 31: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5989  
 Step 32: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5643  
 Step 33: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5257  
 Step 34: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4836  
 Step 35: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4383  
 Step 36: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3901  
 Step 37: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3393  
 Step 38: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2861  
 Step 39: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2307  
 Step 40: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1735  
 Step 41: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1145  
 Step 42: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0539  
 Step 43: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9920  
 Step 44: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9288  
 Step 45: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8645  
 Step 46: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 7.7992  
 Step 47: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7330  
 Step 48: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6660  
 Step 49: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5983  
 Step 50: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5300  
 Step 51: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4612  
 Step 52: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3918  
 Step 53: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3221  
 Step 54: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2520  
 Step 55: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1816  
 Step 56: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1110  
 Step 57: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0402  
 Step 58: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9691  
 Step 59: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8980  
 Step 60: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8267  
 Step 61: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7554  
 Step 62: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6841  
 Step 63: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6127  
 Step 64: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5414  
 Step 65: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4701  
 Step 66: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3989  
 Step 67: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3278  
 Step 68: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2568  
 Step 69: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1859  
 Step 70: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1151  
 Step 71: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0445  
 Step 72: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9741  
 Step 73: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9039  
 Step 74: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8338  
 Step 75: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7640  
 Step 76: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6944  
 Step 77: Loss: 0.0281, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6250  
 Step 78: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5559  
 Step 79: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4870  
 Step 80: Loss: 0.0271, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4184  
 Step 81: Loss: 0.0268, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3501  
 Step 82: Loss: 0.0264, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2820  
 Step 83: Loss: 0.0261, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2142  
 Step 84: Loss: 0.0258, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1467  
 Step 85: Loss: 0.0254, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0795  
 Step 86: Loss: 0.0251, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0127  
 Step 87: Loss: 0.0248, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9461  
 Step 88: Loss: 0.0244, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8799  
 Step 89: Loss: 0.0241, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8140  
 Step 90: Loss: 0.0238, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7485  
 Step 91: Loss: 0.0235, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6833  
 Step 92: Loss: 0.0232, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6185  
 Step 93: Loss: 0.0228, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5540  
 Step 94: Loss: 0.0225, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 4.4900  
 Step 95: Loss: 0.0222, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4264  
 Step 96: Loss: 0.0219, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3631  
 Step 97: Loss: 0.0216, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3003  
 Step 98: Loss: 0.0213, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2380  
 Step 99: Loss: 0.0210, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1761  
 Step 100: Loss: 0.0207, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1148  
 Step 101: Loss: 0.0204, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0539  
 Step 102: Loss: 0.0202, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.9936  
 Step 103: Loss: 0.0199, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.9338  
 Step 104: Loss: 0.0196, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.8747  
 Step 105: Loss: 0.0194, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8162  
 Step 106: Loss: 0.0191, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7583  
 Step 107: Loss: 0.0189, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7012  
 Step 108: Loss: 0.0186, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.6448  
 Step 109: Loss: 0.0184, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.5893  
 Step 110: Loss: 0.0182, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.5346  
 Step 111: Loss: 0.0179, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.4808  
 Step 112: Loss: 0.0177, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.4280  
 Step 113: Loss: 0.0175, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.3762  
 Step 114: Loss: 0.0174, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.3256  
 Step 115: Loss: 0.0172, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.2762  
 Step 116: Loss: 0.0170, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.2281  
 Step 117: Loss: 0.0169, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.1813  
 Step 118: Loss: 0.0168, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0011, Distance: 3.1360  
 Step 119: Loss: 0.0166, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.0923  
 Step 120: Loss: 0.0165, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.0503  
 Step 121: Loss: 0.0164, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.0099  
 Step 122: Loss: 0.0163, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 2.9715  
 Step 123: Loss: 0.0163, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 2.9350  
 Step 124: Loss: 0.0162, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.9005  
 Step 125: Loss: 0.0162, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8682  
 Step 126: Loss: 0.0161, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8380  
 Step 127: Loss: 0.0161, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.8101  
 Step 128: Loss: 0.0160, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7845  
 Step 129: Loss: 0.0160, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.7613  
 Step 130: Loss: 0.0160, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.7405  
 Step 131: Loss: 0.0160, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.7220  
 Step 132: Loss: 0.0159, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.7058  
 Step 133: Loss: 0.0159, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.6919  
 Step 134: Loss: 0.0159, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6801  
 Step 135: Loss: 0.0159, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6705  
 Step 136: Loss: 0.0159, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6628  
 Step 137: Loss: 0.0159, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6570  
 Step 138: Loss: 0.0158, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6528  
 Step 139: Loss: 0.0158, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6501  
 Step 140: Loss: 0.0158, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6488  
 Step 141: Loss: 0.0158, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6486  
 Step 142: Loss: 0.0158, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0022, Distance: 2.6258  
 Step 191: Loss: 0.0154, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6251  
 Step 192: Loss: 0.0154, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6244  
 Step 193: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6237  
 Step 194: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6231  
 Step 195: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6224  
 Step 196: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6218  
 Step 197: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6212  
 Step 198: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6206  
 Step 199: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6200  
 Step 00: Loss: 0.7900, Total Entropy: 0.7900, Epistemic Entropy: 0.0749,  
 Aleatoric Entropy: 0.7151, Distance: 0.0000  
 Step 01: Loss: 0.4456, Total Entropy: 0.4376, Epistemic Entropy: 0.0366,  
 Aleatoric Entropy: 0.4010, Distance: 1.6000  
 Step 02: Loss: 0.0681, Total Entropy: 0.0554, Epistemic Entropy: 0.0022,  
 Aleatoric Entropy: 0.0532, Distance: 2.5265  
 Step 03: Loss: 0.0232, Total Entropy: 0.0056, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0055, Distance: 3.5189  
 Step 04: Loss: 0.0228, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.3849  
 Step 05: Loss: 0.0258, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1245  
 Step 06: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7584  
 Step 07: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3049  
 Step 08: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7781  
 Step 09: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1891  
 Step 10: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5464  
 Step 11: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8572  
 Step 12: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1271  
 Step 13: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3609  
 Step 14: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5625  
 Step 15: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7355  
 Step 16: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8829  
 Step 17: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0071  
 Step 18: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1105  
 Step 19: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1950  
 Step 20: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2624  
 Step 21: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3144  
 Step 22: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3523  
 Step 23: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3774  
 Step 24: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3909  
 Step 25: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3937  
 Step 26: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3869  
 Step 27: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3713  
 Step 28: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3476  
 Step 29: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3166  
 Step 30: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2789  
 Step 31: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2352  
 Step 32: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1859  
 Step 33: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1316  
 Step 34: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0727  
 Step 35: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0096  
 Step 36: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9427  
 Step 37: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8723  
 Step 38: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.7989  
Step 39: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.7226  
Step 40: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6438  
Step 41: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.5627  
Step 42: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.4794  
Step 43: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.3944  
Step 44: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.3076  
Step 45: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.2193  
Step 46: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1298  
Step 47: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.0390  
Step 48: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.9471  
Step 49: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.8544  
Step 50: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.7608  
Step 51: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.6666  
Step 52: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.5718  
Step 53: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.4764  
Step 54: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.3807  
Step 55: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.2846  
Step 56: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.1883  
Step 57: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.0918  
Step 58: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.9951  
Step 59: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.8984  
Step 60: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.8017  
Step 61: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.7050  
Step 62: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.6084  
 Step 63: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5119  
 Step 64: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4155  
 Step 65: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3194  
 Step 66: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2234  
 Step 67: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1278  
 Step 68: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0324  
 Step 69: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9372  
 Step 70: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8424  
 Step 71: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7480  
 Step 72: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6539  
 Step 73: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5602  
 Step 74: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4669  
 Step 75: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3740  
 Step 76: Loss: 0.0265, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2815  
 Step 77: Loss: 0.0260, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1895  
 Step 78: Loss: 0.0256, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0980  
 Step 79: Loss: 0.0251, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0069  
 Step 80: Loss: 0.0247, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9164  
 Step 81: Loss: 0.0242, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8265  
 Step 82: Loss: 0.0238, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7371  
 Step 83: Loss: 0.0234, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6484  
 Step 84: Loss: 0.0230, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5603  
 Step 85: Loss: 0.0226, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.4730  
 Step 86: Loss: 0.0222, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.3866  
 Step 87: Loss: 0.0218, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3009  
 Step 88: Loss: 0.0214, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.2163  
 Step 89: Loss: 0.0211, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1327  
 Step 90: Loss: 0.0207, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.0504  
 Step 91: Loss: 0.0204, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.9694  
 Step 92: Loss: 0.0201, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.8899  
 Step 93: Loss: 0.0198, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.8121  
 Step 94: Loss: 0.0195, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7363  
 Step 95: Loss: 0.0193, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.6627  
 Step 96: Loss: 0.0191, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.5916  
 Step 97: Loss: 0.0189, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.5233  
 Step 98: Loss: 0.0187, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.4583  
 Step 99: Loss: 0.0186, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.3969  
 Step 100: Loss: 0.0185, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.3394  
 Step 101: Loss: 0.0184, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2864  
 Step 102: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2381  
 Step 103: Loss: 0.0183, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1949  
 Step 104: Loss: 0.0183, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1572  
 Step 105: Loss: 0.0182, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1250  
 Step 106: Loss: 0.0182, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0986  
 Step 107: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0779  
 Step 108: Loss: 0.0182, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0628  
 Step 109: Loss: 0.0182, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0530  
 Step 110: Loss: 0.0181, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0028, Distance: 3.0483  
 Step 111: Loss: 0.0181, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0481  
 Step 112: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0520  
 Step 113: Loss: 0.0180, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0593  
 Step 114: Loss: 0.0180, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0693  
 Step 115: Loss: 0.0180, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0814  
 Step 116: Loss: 0.0179, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0948  
 Step 117: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1089  
 Step 118: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1230  
 Step 119: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1367  
 Step 120: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1494  
 Step 121: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1609  
 Step 122: Loss: 0.0179, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1707  
 Step 123: Loss: 0.0179, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1787  
 Step 124: Loss: 0.0179, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1849  
 Step 125: Loss: 0.0178, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.1892  
 Step 126: Loss: 0.0178, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.1916  
 Step 127: Loss: 0.0178, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.1922  
 Step 128: Loss: 0.0178, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.1911  
 Step 129: Loss: 0.0178, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.1885  
 Step 130: Loss: 0.0178, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1847  
 Step 131: Loss: 0.0178, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1797  
 Step 132: Loss: 0.0178, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1738  
 Step 133: Loss: 0.0178, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1672  
 Step 134: Loss: 0.0178, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0020, Distance: 3.1602  
 Step 135: Loss: 0.0178, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1530  
 Step 136: Loss: 0.0178, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1457  
 Step 137: Loss: 0.0178, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1386  
 Step 138: Loss: 0.0178, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1319  
 Step 139: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1256  
 Step 140: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1200  
 Step 141: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1151  
 Step 142: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1110  
 Step 143: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1078  
 Step 144: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1054  
 Step 145: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1039  
 Step 146: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1032  
 Step 147: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1033  
 Step 148: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1041  
 Step 149: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1054  
 Step 150: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1072  
 Step 151: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1094  
 Step 152: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1119  
 Step 153: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1145  
 Step 154: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1172  
 Step 155: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1198  
 Step 156: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1224  
 Step 157: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1247  
 Step 158: Loss: 0.0178, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,

[illegible]

Aleatoric Entropy: 0.0021, Distance: 3.1209  
 Step 183: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1211  
 Step 184: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1213  
 Step 185: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1216  
 Step 186: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1219  
 Step 187: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1223  
 Step 188: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1227  
 Step 189: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1232  
 Step 190: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1236  
 Step 191: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1240  
 Step 192: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1244  
 Step 193: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1247  
 Step 194: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1249  
 Step 195: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1252  
 Step 196: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1253  
 Step 197: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1254  
 Step 198: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1255  
 Step 199: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1255  
 Step 00: Loss: 0.7877, Total Entropy: 0.7877, Epistemic Entropy: 0.0612,  
 Aleatoric Entropy: 0.7265, Distance: 0.0000  
 Step 01: Loss: 0.2580, Total Entropy: 0.2500, Epistemic Entropy: 0.0304,  
 Aleatoric Entropy: 0.2196, Distance: 1.6000  
 Step 02: Loss: 0.0430, Total Entropy: 0.0289, Epistemic Entropy: 0.0031,  
 Aleatoric Entropy: 0.0258, Distance: 2.8152  
 Step 03: Loss: 0.0230, Total Entropy: 0.0036, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0033, Distance: 3.8877  
 Step 04: Loss: 0.0245, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.7820  
 Step 05: Loss: 0.0278, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5324  
 Step 06: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1689  
 Step 07: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7132  
 Step 08: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1812  
 Step 09: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5846  
 Step 10: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9328  
 Step 11: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2329  
 Step 12: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4911  
 Step 13: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7122  
 Step 14: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9004  
 Step 15: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0592  
 Step 16: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1918  
 Step 17: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3008  
 Step 18: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3885  
 Step 19: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4571  
 Step 20: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5083  
 Step 21: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5439  
 Step 22: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5653  
 Step 23: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5737  
 Step 24: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5705  
 Step 25: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5567  
 Step 26: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5331  
 Step 27: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5009  
 Step 28: Loss: 0.0473, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4606  
 Step 29: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4130  
 Step 30: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.3589  
 Step 31: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2987  
 Step 32: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2331  
 Step 33: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1626  
 Step 34: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0876  
 Step 35: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0085  
 Step 36: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9257  
 Step 37: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8396  
 Step 38: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7505  
 Step 39: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6586  
 Step 40: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5644  
 Step 41: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4680  
 Step 42: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3696  
 Step 43: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2695  
 Step 44: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1678  
 Step 45: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0647  
 Step 46: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9604  
 Step 47: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8550  
 Step 48: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7487  
 Step 49: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6416  
 Step 50: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5337  
 Step 51: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4253  
 Step 52: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3164  
 Step 53: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2071  
 Step 54: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.0975  
 Step 55: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9877  
 Step 56: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8777  
 Step 57: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7676  
 Step 58: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6575  
 Step 59: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5474  
 Step 60: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4374  
 Step 61: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3276  
 Step 62: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2180  
 Step 63: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1086  
 Step 64: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9996  
 Step 65: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8908  
 Step 66: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7825  
 Step 67: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6745  
 Step 68: Loss: 0.0279, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5671  
 Step 69: Loss: 0.0273, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4601  
 Step 70: Loss: 0.0268, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3537  
 Step 71: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2479  
 Step 72: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1427  
 Step 73: Loss: 0.0253, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0382  
 Step 74: Loss: 0.0248, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9345  
 Step 75: Loss: 0.0243, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8315  
 Step 76: Loss: 0.0238, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7295  
 Step 77: Loss: 0.0234, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6284  
 Step 78: Loss: 0.0229, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.5283  
 Step 79: Loss: 0.0225, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4295  
 Step 80: Loss: 0.0220, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3320  
 Step 81: Loss: 0.0216, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2359  
 Step 82: Loss: 0.0212, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1416  
 Step 83: Loss: 0.0209, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0491  
 Step 84: Loss: 0.0206, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.9588  
 Step 85: Loss: 0.0203, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.8710  
 Step 86: Loss: 0.0200, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.7860  
 Step 87: Loss: 0.0198, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.7042  
 Step 88: Loss: 0.0196, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.6262  
 Step 89: Loss: 0.0195, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.5524  
 Step 90: Loss: 0.0194, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.4834  
 Step 91: Loss: 0.0193, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.4198  
 Step 92: Loss: 0.0193, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.3621  
 Step 93: Loss: 0.0193, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.3111  
 Step 94: Loss: 0.0193, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2671  
 Step 95: Loss: 0.0193, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.2306  
 Step 96: Loss: 0.0193, Total Entropy: 0.0033, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0031, Distance: 3.2020  
 Step 97: Loss: 0.0193, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.1811  
 Step 98: Loss: 0.0193, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0033, Distance: 3.1680  
 Step 99: Loss: 0.0192, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.1623  
 Step 100: Loss: 0.0192, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 3.1632  
 Step 101: Loss: 0.0191, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 3.1701  
 Step 102: Loss: 0.0190, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0030, Distance: 3.1819  
 Step 103: Loss: 0.0190, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1976  
 Step 104: Loss: 0.0189, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2161  
 Step 105: Loss: 0.0189, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2362  
 Step 106: Loss: 0.0189, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2570  
 Step 107: Loss: 0.0188, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2776  
 Step 108: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2972  
 Step 109: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3151  
 Step 110: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3309  
 Step 111: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3442  
 Step 112: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3547  
 Step 113: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3625  
 Step 114: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3675  
 Step 115: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3698  
 Step 116: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3695  
 Step 117: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3669  
 Step 118: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3623  
 Step 119: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3559  
 Step 120: Loss: 0.0188, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3481  
 Step 121: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3392  
 Step 122: Loss: 0.0188, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3296  
 Step 123: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3195  
 Step 124: Loss: 0.0188, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3094  
 Step 125: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2994  
 Step 126: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0022, Distance: 3.2899  
 Step 127: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2811  
 Step 128: Loss: 0.0188, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2733  
 Step 129: Loss: 0.0188, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2664  
 Step 130: Loss: 0.0188, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2608  
 Step 131: Loss: 0.0188, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2563  
 Step 132: Loss: 0.0188, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2531  
 Step 133: Loss: 0.0188, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2511  
 Step 134: Loss: 0.0188, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2503  
 Step 135: Loss: 0.0187, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2506  
 Step 136: Loss: 0.0187, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2519  
 Step 137: Loss: 0.0187, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2539  
 Step 138: Loss: 0.0187, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2566  
 Step 139: Loss: 0.0187, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2599  
 Step 140: Loss: 0.0187, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2634  
 Step 141: Loss: 0.0187, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2672  
 Step 142: Loss: 0.0187, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2710  
 Step 143: Loss: 0.0187, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2747  
 Step 144: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2782  
 Step 145: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2814  
 Step 146: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2842  
 Step 147: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2866  
 Step 148: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2885  
 Step 149: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2899  
 Step 150: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0022, Distance: 3.2794  
 Step 199: Loss: 0.0187, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2794  
 Step 00: Loss: 0.7858, Total Entropy: 0.7858, Epistemic Entropy: 0.0996,  
 Aleatoric Entropy: 0.6862, Distance: 0.0000  
 Step 01: Loss: 0.4633, Total Entropy: 0.4553, Epistemic Entropy: 0.0765,  
 Aleatoric Entropy: 0.3788, Distance: 1.6000  
 Step 02: Loss: 0.0876, Total Entropy: 0.0747, Epistemic Entropy: 0.0070,  
 Aleatoric Entropy: 0.0677, Distance: 2.5854  
 Step 03: Loss: 0.0260, Total Entropy: 0.0079, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0075, Distance: 3.6087  
 Step 04: Loss: 0.0237, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 4.5028  
 Step 05: Loss: 0.0266, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2660  
 Step 06: Loss: 0.0297, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9195  
 Step 07: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4822  
 Step 08: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9687  
 Step 09: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3905  
 Step 10: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7566  
 Step 11: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0743  
 Step 12: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3496  
 Step 13: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5874  
 Step 14: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7919  
 Step 15: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9669  
 Step 16: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1154  
 Step 17: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2401  
 Step 18: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3435  
 Step 19: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4276  
 Step 20: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4943  
 Step 21: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5454  
 Step 22: Loss: 0.0479, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 9.5822  
 Step 23: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6061  
 Step 24: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6183  
 Step 25: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6198  
 Step 26: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6117  
 Step 27: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5948  
 Step 28: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5699  
 Step 29: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5377  
 Step 30: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4988  
 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: 9.4035  
 Step 33: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3481  
 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: 9.2242  
 Step 36: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1564  
 Step 37: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0852  
 Step 38: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0109  
 Step 39: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9339  
 Step 40: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8543  
 Step 41: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7724  
 Step 42: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6885  
 Step 43: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6027  
 Step 44: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5153  
 Step 45: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4263  
 Step 46: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.3360  
Step 47: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.2445  
Step 48: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1519  
Step 49: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.0584  
Step 50: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.9640  
Step 51: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.8690  
Step 52: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.7733  
Step 53: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.6770  
Step 54: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.5804  
Step 55: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.4833  
Step 56: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.3859  
Step 57: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.2883  
Step 58: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.1904  
Step 59: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.0924  
Step 60: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.9943  
Step 61: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.8961  
Step 62: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.7979  
Step 63: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.6997  
Step 64: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.6016  
Step 65: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.5035  
Step 66: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.4056  
Step 67: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.3077  
Step 68: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.2100  
Step 69: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.1125  
Step 70: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.0152  
 Step 71: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9181  
 Step 72: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8212  
 Step 73: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7246  
 Step 74: Loss: 0.0282, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6283  
 Step 75: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5323  
 Step 76: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4367  
 Step 77: Loss: 0.0268, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3414  
 Step 78: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2465  
 Step 79: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1520  
 Step 80: Loss: 0.0254, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0581  
 Step 81: Loss: 0.0249, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9646  
 Step 82: Loss: 0.0245, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8717  
 Step 83: Loss: 0.0240, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7794  
 Step 84: Loss: 0.0236, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6878  
 Step 85: Loss: 0.0232, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5969  
 Step 86: Loss: 0.0228, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5069  
 Step 87: Loss: 0.0224, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4178  
 Step 88: Loss: 0.0220, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3299  
 Step 89: Loss: 0.0217, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2431  
 Step 90: Loss: 0.0213, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1578  
 Step 91: Loss: 0.0210, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0740  
 Step 92: Loss: 0.0207, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.9920  
 Step 93: Loss: 0.0204, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.9120  
 Step 94: Loss: 0.0201, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0009, Distance: 3.8344  
 Step 95: Loss: 0.0199, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.7594  
 Step 96: Loss: 0.0197, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.6874  
 Step 97: Loss: 0.0195, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.6187  
 Step 98: Loss: 0.0193, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.5537  
 Step 99: Loss: 0.0192, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.4929  
 Step 100: Loss: 0.0191, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.4366  
 Step 101: Loss: 0.0190, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.3851  
 Step 102: Loss: 0.0189, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3388  
 Step 103: Loss: 0.0188, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2978  
 Step 104: Loss: 0.0188, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.2625  
 Step 105: Loss: 0.0187, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2327  
 Step 106: Loss: 0.0187, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2086  
 Step 107: Loss: 0.0187, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1898  
 Step 108: Loss: 0.0187, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1761  
 Step 109: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1673  
 Step 110: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1628  
 Step 111: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1621  
 Step 112: Loss: 0.0186, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1647  
 Step 113: Loss: 0.0185, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1700  
 Step 114: Loss: 0.0185, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1775  
 Step 115: Loss: 0.0185, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1866  
 Step 116: Loss: 0.0185, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1967  
 Step 117: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2072  
 Step 118: Loss: 0.0184, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0023, Distance: 3.2178  
 Step 119: Loss: 0.0184, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2280  
 Step 120: Loss: 0.0184, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2374  
 Step 121: Loss: 0.0184, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2459  
 Step 122: Loss: 0.0184, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2532  
 Step 123: Loss: 0.0184, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2592  
 Step 124: Loss: 0.0184, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2638  
 Step 125: Loss: 0.0184, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2670  
 Step 126: Loss: 0.0184, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2689  
 Step 127: Loss: 0.0184, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2694  
 Step 128: Loss: 0.0183, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2688  
 Step 129: Loss: 0.0183, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2671  
 Step 130: Loss: 0.0183, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2646  
 Step 131: Loss: 0.0183, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2612  
 Step 132: Loss: 0.0183, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2573  
 Step 133: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2529  
 Step 134: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2482  
 Step 135: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2434  
 Step 136: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2386  
 Step 137: Loss: 0.0183, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2339  
 Step 138: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2295  
 Step 139: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2254  
 Step 140: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2218  
 Step 141: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2187  
 Step 142: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

[illegible]



Aleatoric Entropy: 0.0021, Distance: 3.2213  
 Step 191: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2214  
 Step 192: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2214  
 Step 193: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2215  
 Step 194: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2215  
 Step 195: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2215  
 Step 196: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2215  
 Step 197: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2215  
 Step 198: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2214  
 Step 199: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2214  
 Step 00: Loss: 0.7794, Total Entropy: 0.7794, Epistemic Entropy: 0.0740,  
 Aleatoric Entropy: 0.7054, Distance: 0.0000  
 Step 01: Loss: 0.1644, Total Entropy: 0.1564, Epistemic Entropy: 0.0180,  
 Aleatoric Entropy: 0.1384, Distance: 1.6000  
 Step 02: Loss: 0.0256, Total Entropy: 0.0111, Epistemic Entropy: 0.0008,  
 Aleatoric Entropy: 0.0104, Distance: 2.8942  
 Step 03: Loss: 0.0210, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.9579  
 Step 04: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8268  
 Step 05: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5502  
 Step 06: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1611  
 Step 07: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6819  
 Step 08: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1284  
 Step 09: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5123  
 Step 10: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8428  
 Step 11: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1268  
 Step 12: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3702  
 Step 13: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5779  
 Step 14: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 8.7538  
 Step 15: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9014  
 Step 16: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0237  
 Step 17: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1233  
 Step 18: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2025  
 Step 19: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2634  
 Step 20: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3076  
 Step 21: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3369  
 Step 22: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3527  
 Step 23: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3563  
 Step 24: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3489  
 Step 25: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3314  
 Step 26: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3048  
 Step 27: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2700  
 Step 28: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2278  
 Step 29: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1787  
 Step 30: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1235  
 Step 31: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0628  
 Step 32: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9970  
 Step 33: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9266  
 Step 34: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8521  
 Step 35: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7739  
 Step 36: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6923  
 Step 37: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6077  
 Step 38: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5205  
 Step 39: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4308  
 Step 40: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3389  
 Step 41: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2451  
 Step 42: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1496  
 Step 43: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0526  
 Step 44: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9541  
 Step 45: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8545  
 Step 46: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7539  
 Step 47: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6523  
 Step 48: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5499  
 Step 49: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4469  
 Step 50: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3433  
 Step 51: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2392  
 Step 52: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1348  
 Step 53: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0300  
 Step 54: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9250  
 Step 55: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8199  
 Step 56: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7147  
 Step 57: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6094  
 Step 58: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5041  
 Step 59: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3989  
 Step 60: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2937  
 Step 61: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1887  
 Step 62: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.0838  
 Step 63: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9791  
 Step 64: Loss: 0.0294, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8746  
 Step 65: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7703  
 Step 66: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6663  
 Step 67: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5626  
 Step 68: Loss: 0.0273, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4592  
 Step 69: Loss: 0.0268, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3562  
 Step 70: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2535  
 Step 71: Loss: 0.0258, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1512  
 Step 72: Loss: 0.0253, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0493  
 Step 73: Loss: 0.0248, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9478  
 Step 74: Loss: 0.0243, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8468  
 Step 75: Loss: 0.0238, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7463  
 Step 76: Loss: 0.0233, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.6463  
 Step 77: Loss: 0.0228, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5469  
 Step 78: Loss: 0.0223, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4481  
 Step 79: Loss: 0.0218, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3500  
 Step 80: Loss: 0.0214, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2525  
 Step 81: Loss: 0.0209, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1559  
 Step 82: Loss: 0.0205, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0602  
 Step 83: Loss: 0.0200, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.9655  
 Step 84: Loss: 0.0196, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8719  
 Step 85: Loss: 0.0192, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7795  
 Step 86: Loss: 0.0188, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 3.6886  
 Step 87: Loss: 0.0185, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.5993  
 Step 88: Loss: 0.0182, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5120  
 Step 89: Loss: 0.0179, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.4270  
 Step 90: Loss: 0.0176, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.3445  
 Step 91: Loss: 0.0174, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.2652  
 Step 92: Loss: 0.0172, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.1893  
 Step 93: Loss: 0.0171, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.1176  
 Step 94: Loss: 0.0170, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0507  
 Step 95: Loss: 0.0170, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.9892  
 Step 96: Loss: 0.0169, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9338  
 Step 97: Loss: 0.0170, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.8851  
 Step 98: Loss: 0.0170, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.8439  
 Step 99: Loss: 0.0170, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.8105  
 Step 100: Loss: 0.0170, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7853  
 Step 101: Loss: 0.0170, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7683  
 Step 102: Loss: 0.0169, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7592  
 Step 103: Loss: 0.0169, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7576  
 Step 104: Loss: 0.0168, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7627  
 Step 105: Loss: 0.0167, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.7733  
 Step 106: Loss: 0.0167, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.7884  
 Step 107: Loss: 0.0166, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8066  
 Step 108: Loss: 0.0166, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.8268  
 Step 109: Loss: 0.0166, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8477  
 Step 110: Loss: 0.0165, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0021, Distance: 2.8683  
 Step 111: Loss: 0.0165, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8879  
 Step 112: Loss: 0.0165, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.9056  
 Step 113: Loss: 0.0165, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9210  
 Step 114: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9338  
 Step 115: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9437  
 Step 116: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9507  
 Step 117: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9549  
 Step 118: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9563  
 Step 119: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9553  
 Step 120: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9519  
 Step 121: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9467  
 Step 122: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9399  
 Step 123: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9318  
 Step 124: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9228  
 Step 125: Loss: 0.0165, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9133  
 Step 126: Loss: 0.0164, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.9035  
 Step 127: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.8938  
 Step 128: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.8845  
 Step 129: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8758  
 Step 130: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8679  
 Step 131: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8610  
 Step 132: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8552  
 Step 133: Loss: 0.0164, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8506  
 Step 134: Loss: 0.0164, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0020, Distance: 2.8691  
 Step 183: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8692  
 Step 184: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8693  
 Step 185: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8693  
 Step 186: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8692  
 Step 187: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8691  
 Step 188: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8690  
 Step 189: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8688  
 Step 190: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8687  
 Step 191: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8685  
 Step 192: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8683  
 Step 193: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8681  
 Step 194: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8680  
 Step 195: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8679  
 Step 196: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8678  
 Step 197: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8677  
 Step 198: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8677  
 Step 199: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8677  
 Step 00: Loss: 0.7789, Total Entropy: 0.7789, Epistemic Entropy: 0.0821,  
 Aleatoric Entropy: 0.6967, Distance: 0.0000  
 Step 01: Loss: 0.2245, Total Entropy: 0.2165, Epistemic Entropy: 0.0156,  
 Aleatoric Entropy: 0.2009, Distance: 1.6000  
 Step 02: Loss: 0.0291, Total Entropy: 0.0152, Epistemic Entropy: 0.0006,  
 Aleatoric Entropy: 0.0146, Distance: 2.7769  
 Step 03: Loss: 0.0206, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.8010  
 Step 04: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6485  
 Step 05: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3572  
 Step 06: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0000, Distance: 5.9568  
 Step 07: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4683  
 Step 08: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9068  
 Step 09: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2836  
 Step 10: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6076  
 Step 11: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8859  
 Step 12: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1242  
 Step 13: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3272  
 Step 14: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4989  
 Step 15: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6428  
 Step 16: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7619  
 Step 17: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8586  
 Step 18: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9353  
 Step 19: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9939  
 Step 20: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0362  
 Step 21: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0638  
 Step 22: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0780  
 Step 23: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0801  
 Step 24: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0713  
 Step 25: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0526  
 Step 26: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0248  
 Step 27: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9888  
 Step 28: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9454  
 Step 29: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8952  
 Step 30: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8389  
 Step 31: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7770  
 Step 32: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7100  
 Step 33: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6383  
 Step 34: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5625  
 Step 35: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4829  
 Step 36: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3998  
 Step 37: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3136  
 Step 38: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2246  
 Step 39: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1330  
 Step 40: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0391  
 Step 41: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9431  
 Step 42: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8452  
 Step 43: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7457  
 Step 44: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6448  
 Step 45: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5425  
 Step 46: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4391  
 Step 47: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3346  
 Step 48: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2294  
 Step 49: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1233  
 Step 50: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0167  
 Step 51: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9095  
 Step 52: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8020  
 Step 53: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6941  
 Step 54: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.5860  
 Step 55: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4778  
 Step 56: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3695  
 Step 57: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2612  
 Step 58: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1530  
 Step 59: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0449  
 Step 60: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9371  
 Step 61: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8295  
 Step 62: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7222  
 Step 63: Loss: 0.0281, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6153  
 Step 64: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5088  
 Step 65: Loss: 0.0270, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4028  
 Step 66: Loss: 0.0265, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2973  
 Step 67: Loss: 0.0260, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1924  
 Step 68: Loss: 0.0255, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0881  
 Step 69: Loss: 0.0250, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9844  
 Step 70: Loss: 0.0245, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8815  
 Step 71: Loss: 0.0240, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7792  
 Step 72: Loss: 0.0235, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6778  
 Step 73: Loss: 0.0230, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5772  
 Step 74: Loss: 0.0225, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4775  
 Step 75: Loss: 0.0220, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3787  
 Step 76: Loss: 0.0216, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2809  
 Step 77: Loss: 0.0211, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1842  
 Step 78: Loss: 0.0207, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.0887  
 Step 79: Loss: 0.0202, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.9943  
 Step 80: Loss: 0.0198, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.9013  
 Step 81: Loss: 0.0194, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8098  
 Step 82: Loss: 0.0190, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.7198  
 Step 83: Loss: 0.0187, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.6316  
 Step 84: Loss: 0.0183, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5454  
 Step 85: Loss: 0.0180, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.4615  
 Step 86: Loss: 0.0177, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.3800  
 Step 87: Loss: 0.0175, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.3015  
 Step 88: Loss: 0.0173, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.2262  
 Step 89: Loss: 0.0172, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.1548  
 Step 90: Loss: 0.0171, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.0877  
 Step 91: Loss: 0.0170, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0256  
 Step 92: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9691  
 Step 93: Loss: 0.0170, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.9188  
 Step 94: Loss: 0.0170, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8753  
 Step 95: Loss: 0.0170, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.8393  
 Step 96: Loss: 0.0170, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.8111  
 Step 97: Loss: 0.0170, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7908  
 Step 98: Loss: 0.0170, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7785  
 Step 99: Loss: 0.0169, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7737  
 Step 100: Loss: 0.0168, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7759  
 Step 101: Loss: 0.0168, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.7842  
 Step 102: Loss: 0.0167, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0026, Distance: 2.7974  
 Step 103: Loss: 0.0166, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.8143  
 Step 104: Loss: 0.0166, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8337  
 Step 105: Loss: 0.0165, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8544  
 Step 106: Loss: 0.0165, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.8753  
 Step 107: Loss: 0.0165, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.8954  
 Step 108: Loss: 0.0165, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.9139  
 Step 109: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9302  
 Step 110: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9438  
 Step 111: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9545  
 Step 112: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 2.9622  
 Step 113: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 2.9667  
 Step 114: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 2.9683  
 Step 115: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 2.9672  
 Step 116: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 2.9635  
 Step 117: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 2.9576  
 Step 118: Loss: 0.0165, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9499  
 Step 119: Loss: 0.0165, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9408  
 Step 120: Loss: 0.0164, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.9306  
 Step 121: Loss: 0.0164, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9197  
 Step 122: Loss: 0.0164, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.9085  
 Step 123: Loss: 0.0164, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.8974  
 Step 124: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.8867  
 Step 125: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8767  
 Step 126: Loss: 0.0164, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,





[illegible]



Aleatoric Entropy: 0.0020, Distance: 2.8716  
 Step 199: Loss: 0.0164, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8717  
 Step 00: Loss: 0.7763, Total Entropy: 0.7763, Epistemic Entropy: 0.0431,  
 Aleatoric Entropy: 0.7332, Distance: 0.0000  
 Step 01: Loss: 0.0985, Total Entropy: 0.0905, Epistemic Entropy: 0.0032,  
 Aleatoric Entropy: 0.0873, Distance: 1.6000  
 Step 02: Loss: 0.0263, Total Entropy: 0.0120, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0117, Distance: 2.8470  
 Step 03: Loss: 0.0215, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.8147  
 Step 04: Loss: 0.0236, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.5947  
 Step 05: Loss: 0.0264, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2406  
 Step 06: Loss: 0.0290, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7849  
 Step 07: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2486  
 Step 08: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6465  
 Step 09: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9894  
 Step 10: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2855  
 Step 11: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5414  
 Step 12: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7623  
 Step 13: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9526  
 Step 14: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1160  
 Step 15: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2558  
 Step 16: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3745  
 Step 17: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4744  
 Step 18: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5576  
 Step 19: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6258  
 Step 20: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6804  
 Step 21: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7228  
 Step 22: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.7541  
 Step 23: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7754  
 Step 24: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7875  
 Step 25: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7913  
 Step 26: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7875  
 Step 27: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7769  
 Step 28: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7601  
 Step 29: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7377  
 Step 30: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7101  
 Step 31: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6780  
 Step 32: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6417  
 Step 33: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6015  
 Step 34: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5580  
 Step 35: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5112  
 Step 36: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4617  
 Step 37: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4095  
 Step 38: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3550  
 Step 39: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2984  
 Step 40: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2399  
 Step 41: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1796  
 Step 42: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1178  
 Step 43: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0547  
 Step 44: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9903  
 Step 45: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9248  
 Step 46: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.8584  
 Step 47: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7910  
 Step 48: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7229  
 Step 49: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6541  
 Step 50: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5847  
 Step 51: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5148  
 Step 52: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4443  
 Step 53: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3735  
 Step 54: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3023  
 Step 55: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2308  
 Step 56: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1590  
 Step 57: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0870  
 Step 58: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0148  
 Step 59: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9425  
 Step 60: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8700  
 Step 61: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7974  
 Step 62: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7247  
 Step 63: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6520  
 Step 64: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5793  
 Step 65: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5066  
 Step 66: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4339  
 Step 67: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3612  
 Step 68: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2885  
 Step 69: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2159  
 Step 70: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1434  
 Step 71: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0710  
 Step 72: Loss: 0.0300, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9986  
 Step 73: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9264  
 Step 74: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8542  
 Step 75: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7822  
 Step 76: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7104  
 Step 77: Loss: 0.0282, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6387  
 Step 78: Loss: 0.0279, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5672  
 Step 79: Loss: 0.0275, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4958  
 Step 80: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4246  
 Step 81: Loss: 0.0268, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3537  
 Step 82: Loss: 0.0265, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2829  
 Step 83: Loss: 0.0261, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2124  
 Step 84: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1421  
 Step 85: Loss: 0.0254, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0720  
 Step 86: Loss: 0.0251, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0023  
 Step 87: Loss: 0.0247, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9327  
 Step 88: Loss: 0.0244, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8635  
 Step 89: Loss: 0.0241, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7946  
 Step 90: Loss: 0.0237, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7260  
 Step 91: Loss: 0.0234, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6577  
 Step 92: Loss: 0.0231, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5898  
 Step 93: Loss: 0.0228, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5223  
 Step 94: Loss: 0.0225, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.4552  
 Step 95: Loss: 0.0221, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.3885  
 Step 96: Loss: 0.0218, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.3223  
 Step 97: Loss: 0.0215, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.2566  
 Step 98: Loss: 0.0213, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.1915  
 Step 99: Loss: 0.0210, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.1270  
 Step 100: Loss: 0.0207, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.0631  
 Step 101: Loss: 0.0204, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.0000  
 Step 102: Loss: 0.0202, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.9376  
 Step 103: Loss: 0.0199, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.8761  
 Step 104: Loss: 0.0197, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.8156  
 Step 105: Loss: 0.0195, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.7561  
 Step 106: Loss: 0.0192, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.6978  
 Step 107: Loss: 0.0191, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.6407  
 Step 108: Loss: 0.0189, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.5850  
 Step 109: Loss: 0.0187, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.5308  
 Step 110: Loss: 0.0185, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.4783  
 Step 111: Loss: 0.0184, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.4275  
 Step 112: Loss: 0.0183, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.3788  
 Step 113: Loss: 0.0182, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.3321  
 Step 114: Loss: 0.0181, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.2877  
 Step 115: Loss: 0.0180, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2456  
 Step 116: Loss: 0.0180, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2062  
 Step 117: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1694  
 Step 118: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0021, Distance: 3.1355  
 Step 119: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1045  
 Step 120: Loss: 0.0178, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0765  
 Step 121: Loss: 0.0178, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0516  
 Step 122: Loss: 0.0178, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0298  
 Step 123: Loss: 0.0178, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.0112  
 Step 124: Loss: 0.0178, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9956  
 Step 125: Loss: 0.0177, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9829  
 Step 126: Loss: 0.0177, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9732  
 Step 127: Loss: 0.0177, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9662  
 Step 128: Loss: 0.0177, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9617  
 Step 129: Loss: 0.0177, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9596  
 Step 130: Loss: 0.0177, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9595  
 Step 131: Loss: 0.0177, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9613  
 Step 132: Loss: 0.0177, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9647  
 Step 133: Loss: 0.0176, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9693  
 Step 134: Loss: 0.0176, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9749  
 Step 135: Loss: 0.0176, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9813  
 Step 136: Loss: 0.0176, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9883  
 Step 137: Loss: 0.0176, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.9954  
 Step 138: Loss: 0.0176, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0027  
 Step 139: Loss: 0.0176, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0098  
 Step 140: Loss: 0.0176, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0167  
 Step 141: Loss: 0.0176, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0232  
 Step 142: Loss: 0.0176, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,







Aleatoric Entropy: 0.0023, Distance: 3.0270  
 Step 191: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0274  
 Step 192: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0276  
 Step 193: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0279  
 Step 194: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0280  
 Step 195: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0281  
 Step 196: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0282  
 Step 197: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0282  
 Step 198: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0282  
 Step 199: Loss: 0.0175, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0281  
 Step 00: Loss: 0.7716, Total Entropy: 0.7716, Epistemic Entropy: 0.0359,  
 Aleatoric Entropy: 0.7357, Distance: 0.0000  
 Step 01: Loss: 0.5804, Total Entropy: 0.5724, Epistemic Entropy: 0.0239,  
 Aleatoric Entropy: 0.5485, Distance: 1.6000  
 Step 02: Loss: 0.1260, Total Entropy: 0.1138, Epistemic Entropy: 0.0021,  
 Aleatoric Entropy: 0.1117, Distance: 2.4455  
 Step 03: Loss: 0.0298, Total Entropy: 0.0125, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0122, Distance: 3.4589  
 Step 04: Loss: 0.0237, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 4.3706  
 Step 05: Loss: 0.0262, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.1534  
 Step 06: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8249  
 Step 07: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4034  
 Step 08: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9040  
 Step 09: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3382  
 Step 10: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7153  
 Step 11: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0428  
 Step 12: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3268  
 Step 13: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5723  
 Step 14: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.7835  
 Step 15: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9642  
 Step 16: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1174  
 Step 17: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2459  
 Step 18: Loss: 0.0468, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3521  
 Step 19: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4382  
 Step 20: Loss: 0.0475, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5060  
 Step 21: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5573  
 Step 22: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5937  
 Step 23: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6164  
 Step 24: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6269  
 Step 25: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6262  
 Step 26: Loss: 0.0481, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.6153  
 Step 27: Loss: 0.0480, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5953  
 Step 28: Loss: 0.0478, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5669  
 Step 29: Loss: 0.0477, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.5310  
 Step 30: Loss: 0.0474, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4882  
 Step 31: Loss: 0.0472, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.4393  
 Step 32: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3846  
 Step 33: Loss: 0.0466, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.3249  
 Step 34: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2605  
 Step 35: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1920  
 Step 36: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1197  
 Step 37: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0441  
 Step 38: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.9654  
 Step 39: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8839  
 Step 40: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8001  
 Step 41: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7140  
 Step 42: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6261  
 Step 43: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5364  
 Step 44: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4453  
 Step 45: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3528  
 Step 46: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2591  
 Step 47: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1645  
 Step 48: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0689  
 Step 49: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9726  
 Step 50: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8757  
 Step 51: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7782  
 Step 52: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6803  
 Step 53: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5821  
 Step 54: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4836  
 Step 55: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3849  
 Step 56: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2861  
 Step 57: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1873  
 Step 58: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0885  
 Step 59: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9898  
 Step 60: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8912  
 Step 61: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7927  
 Step 62: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.6945  
 Step 63: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5964  
 Step 64: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4987  
 Step 65: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4013  
 Step 66: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3041  
 Step 67: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2074  
 Step 68: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1111  
 Step 69: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0151  
 Step 70: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9197  
 Step 71: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8246  
 Step 72: Loss: 0.0287, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7301  
 Step 73: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6361  
 Step 74: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5426  
 Step 75: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4497  
 Step 76: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3573  
 Step 77: Loss: 0.0264, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2655  
 Step 78: Loss: 0.0260, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1744  
 Step 79: Loss: 0.0256, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0839  
 Step 80: Loss: 0.0251, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9941  
 Step 81: Loss: 0.0247, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9051  
 Step 82: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8168  
 Step 83: Loss: 0.0239, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7293  
 Step 84: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6427  
 Step 85: Loss: 0.0231, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5570  
 Step 86: Loss: 0.0227, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0003, Distance: 4.4723  
 Step 87: Loss: 0.0224, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3887  
 Step 88: Loss: 0.0220, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3062  
 Step 89: Loss: 0.0216, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.2249  
 Step 90: Loss: 0.0213, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1450  
 Step 91: Loss: 0.0210, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0666  
 Step 92: Loss: 0.0207, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.9897  
 Step 93: Loss: 0.0204, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.9146  
 Step 94: Loss: 0.0201, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.8415  
 Step 95: Loss: 0.0199, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.7704  
 Step 96: Loss: 0.0196, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.7017  
 Step 97: Loss: 0.0194, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.6355  
 Step 98: Loss: 0.0192, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.5722  
 Step 99: Loss: 0.0190, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.5118  
 Step 100: Loss: 0.0189, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.4548  
 Step 101: Loss: 0.0188, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.4013  
 Step 102: Loss: 0.0187, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.3517  
 Step 103: Loss: 0.0186, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.3062  
 Step 104: Loss: 0.0185, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.2650  
 Step 105: Loss: 0.0185, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2283  
 Step 106: Loss: 0.0185, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1963  
 Step 107: Loss: 0.0185, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1690  
 Step 108: Loss: 0.0184, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1465  
 Step 109: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1286  
 Step 110: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0028, Distance: 3.1152  
 Step 111: Loss: 0.0184, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1061  
 Step 112: Loss: 0.0184, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1010  
 Step 113: Loss: 0.0184, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0993  
 Step 114: Loss: 0.0183, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1008  
 Step 115: Loss: 0.0183, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1048  
 Step 116: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1109  
 Step 117: Loss: 0.0182, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1186  
 Step 118: Loss: 0.0182, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1273  
 Step 119: Loss: 0.0182, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1366  
 Step 120: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1461  
 Step 121: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.1554  
 Step 122: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.1642  
 Step 123: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1722  
 Step 124: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1793  
 Step 125: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1853  
 Step 126: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1902  
 Step 127: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1938  
 Step 128: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1962  
 Step 129: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1974  
 Step 130: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1975  
 Step 131: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1966  
 Step 132: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1948  
 Step 133: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1923  
 Step 134: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,

[illegible]





Aleatoric Entropy: 0.0022, Distance: 3.1499  
 Step 183: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1497  
 Step 184: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1495  
 Step 185: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1494  
 Step 186: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1493  
 Step 187: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1492  
 Step 188: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1492  
 Step 189: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1492  
 Step 190: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1492  
 Step 191: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1493  
 Step 192: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1493  
 Step 193: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1494  
 Step 194: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1494  
 Step 195: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1495  
 Step 196: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1496  
 Step 197: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1496  
 Step 198: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1497  
 Step 199: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1497  
 Step 00: Loss: 0.7715, Total Entropy: 0.7715, Epistemic Entropy: 0.0401,  
 Aleatoric Entropy: 0.7314, Distance: 0.0000  
 Step 01: Loss: 0.1106, Total Entropy: 0.1026, Epistemic Entropy: 0.0032,  
 Aleatoric Entropy: 0.0993, Distance: 1.6000  
 Step 02: Loss: 0.0301, Total Entropy: 0.0158, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0153, Distance: 2.8739  
 Step 03: Loss: 0.0231, Total Entropy: 0.0037, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0035, Distance: 3.8755  
 Step 04: Loss: 0.0246, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 4.6863  
 Step 05: Loss: 0.0273, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.3592  
 Step 06: Loss: 0.0299, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 5.9273  
 Step 07: Loss: 0.0322, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.4125  
 Step 08: Loss: 0.0342, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 6.8300  
 Step 09: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1908  
 Step 10: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5035  
 Step 11: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7747  
 Step 12: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0096  
 Step 13: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2127  
 Step 14: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3876  
 Step 15: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5373  
 Step 16: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6645  
 Step 17: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7716  
 Step 18: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8604  
 Step 19: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9330  
 Step 20: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9909  
 Step 21: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0354  
 Step 22: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0681  
 Step 23: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0899  
 Step 24: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1020  
 Step 25: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1052  
 Step 26: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1004  
 Step 27: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0884  
 Step 28: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0697  
 Step 29: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0449  
 Step 30: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.0146  
 Step 31: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9792  
 Step 32: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9391  
 Step 33: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8948  
 Step 34: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8465  
 Step 35: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7947  
 Step 36: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7397  
 Step 37: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6816  
 Step 38: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6209  
 Step 39: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5577  
 Step 40: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4924  
 Step 41: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4250  
 Step 42: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3558  
 Step 43: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2851  
 Step 44: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2128  
 Step 45: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1393  
 Step 46: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0645  
 Step 47: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9888  
 Step 48: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9120  
 Step 49: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8345  
 Step 50: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7563  
 Step 51: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6774  
 Step 52: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5980  
 Step 53: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5182  
 Step 54: Loss: 0.0372, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.4381  
 Step 55: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3576  
 Step 56: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2769  
 Step 57: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1961  
 Step 58: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1151  
 Step 59: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0341  
 Step 60: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9530  
 Step 61: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8719  
 Step 62: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7908  
 Step 63: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7098  
 Step 64: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6289  
 Step 65: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5482  
 Step 66: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4676  
 Step 67: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3872  
 Step 68: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3069  
 Step 69: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2270  
 Step 70: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1472  
 Step 71: Loss: 0.0304, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0677  
 Step 72: Loss: 0.0300, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9885  
 Step 73: Loss: 0.0296, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.9096  
 Step 74: Loss: 0.0292, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8311  
 Step 75: Loss: 0.0288, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.7528  
 Step 76: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6749  
 Step 77: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5974  
 Step 78: Loss: 0.0277, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.5202  
 Step 79: Loss: 0.0273, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4435  
 Step 80: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3672  
 Step 81: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2913  
 Step 82: Loss: 0.0262, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2158  
 Step 83: Loss: 0.0259, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.1409  
 Step 84: Loss: 0.0255, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.0664  
 Step 85: Loss: 0.0252, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9924  
 Step 86: Loss: 0.0248, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9190  
 Step 87: Loss: 0.0245, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8462  
 Step 88: Loss: 0.0242, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7740  
 Step 89: Loss: 0.0238, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7024  
 Step 90: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6315  
 Step 91: Loss: 0.0232, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.5612  
 Step 92: Loss: 0.0229, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.4918  
 Step 93: Loss: 0.0226, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.4231  
 Step 94: Loss: 0.0223, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.3553  
 Step 95: Loss: 0.0220, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.2884  
 Step 96: Loss: 0.0217, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.2225  
 Step 97: Loss: 0.0215, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.1576  
 Step 98: Loss: 0.0212, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 4.0938  
 Step 99: Loss: 0.0210, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.0312  
 Step 100: Loss: 0.0207, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.9699  
 Step 101: Loss: 0.0205, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.9100  
 Step 102: Loss: 0.0203, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0010, Distance: 3.8515  
 Step 103: Loss: 0.0201, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.7946  
 Step 104: Loss: 0.0199, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.7393  
 Step 105: Loss: 0.0198, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.6859  
 Step 106: Loss: 0.0196, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.6344  
 Step 107: Loss: 0.0195, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.5849  
 Step 108: Loss: 0.0194, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.5375  
 Step 109: Loss: 0.0193, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.4924  
 Step 110: Loss: 0.0192, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.4497  
 Step 111: Loss: 0.0191, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.4095  
 Step 112: Loss: 0.0190, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.3718  
 Step 113: Loss: 0.0190, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.3369  
 Step 114: Loss: 0.0189, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.3046  
 Step 115: Loss: 0.0189, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2752  
 Step 116: Loss: 0.0189, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.2487  
 Step 117: Loss: 0.0189, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.2250  
 Step 118: Loss: 0.0188, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.2042  
 Step 119: Loss: 0.0188, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1863  
 Step 120: Loss: 0.0188, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1712  
 Step 121: Loss: 0.0188, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1587  
 Step 122: Loss: 0.0188, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1489  
 Step 123: Loss: 0.0188, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1416  
 Step 124: Loss: 0.0188, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1365  
 Step 125: Loss: 0.0188, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1336  
 Step 126: Loss: 0.0187, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0030, Distance: 3.1325  
 Step 127: Loss: 0.0187, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1332  
 Step 128: Loss: 0.0187, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.1353  
 Step 129: Loss: 0.0187, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1387  
 Step 130: Loss: 0.0187, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1431  
 Step 131: Loss: 0.0187, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1482  
 Step 132: Loss: 0.0186, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1539  
 Step 133: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1599  
 Step 134: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1661  
 Step 135: Loss: 0.0186, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1722  
 Step 136: Loss: 0.0186, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1782  
 Step 137: Loss: 0.0186, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1839  
 Step 138: Loss: 0.0186, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1892  
 Step 139: Loss: 0.0186, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1941  
 Step 140: Loss: 0.0186, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1983  
 Step 141: Loss: 0.0186, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2021  
 Step 142: Loss: 0.0186, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2051  
 Step 143: Loss: 0.0186, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2076  
 Step 144: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2095  
 Step 145: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2108  
 Step 146: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2114  
 Step 147: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2116  
 Step 148: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2113  
 Step 149: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.2105  
 Step 150: Loss: 0.0186, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,







Aleatoric Entropy: 0.0026, Distance: 3.1864  
 Step 199: Loss: 0.0185, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1863  
 Step 00: Loss: 0.7635, Total Entropy: 0.7635, Epistemic Entropy: 0.0641,  
 Aleatoric Entropy: 0.6994, Distance: 0.0000  
 Step 01: Loss: 0.3467, Total Entropy: 0.3387, Epistemic Entropy: 0.0172,  
 Aleatoric Entropy: 0.3215, Distance: 1.6000  
 Step 02: Loss: 0.0533, Total Entropy: 0.0401, Epistemic Entropy: 0.0011,  
 Aleatoric Entropy: 0.0390, Distance: 2.6393  
 Step 03: Loss: 0.0232, Total Entropy: 0.0049, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0048, Distance: 3.6487  
 Step 04: Loss: 0.0234, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 4.5084  
 Step 05: Loss: 0.0264, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 5.2355  
 Step 06: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8547  
 Step 07: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3856  
 Step 08: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8427  
 Step 09: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2374  
 Step 10: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5784  
 Step 11: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8726  
 Step 12: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1260  
 Step 13: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3433  
 Step 14: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5286  
 Step 15: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6852  
 Step 16: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8163  
 Step 17: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9243  
 Step 18: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0117  
 Step 19: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0804  
 Step 20: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1322  
 Step 21: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1688  
 Step 22: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.1915  
 Step 23: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2018  
 Step 24: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2007  
 Step 25: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1893  
 Step 26: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1687  
 Step 27: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1396  
 Step 28: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1028  
 Step 29: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0592  
 Step 30: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0093  
 Step 31: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9538  
 Step 32: Loss: 0.0445, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8931  
 Step 33: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8278  
 Step 34: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7584  
 Step 35: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6853  
 Step 36: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6087  
 Step 37: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5292  
 Step 38: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4470  
 Step 39: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3623  
 Step 40: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2754  
 Step 41: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1867  
 Step 42: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0962  
 Step 43: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0042  
 Step 44: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9108  
 Step 45: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8163  
 Step 46: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.7207  
 Step 47: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6242  
 Step 48: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5269  
 Step 49: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4289  
 Step 50: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3303  
 Step 51: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2312  
 Step 52: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1318  
 Step 53: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0319  
 Step 54: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9318  
 Step 55: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8315  
 Step 56: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7311  
 Step 57: Loss: 0.0332, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6305  
 Step 58: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5299  
 Step 59: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4292  
 Step 60: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3286  
 Step 61: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2280  
 Step 62: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1275  
 Step 63: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0272  
 Step 64: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9270  
 Step 65: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8270  
 Step 66: Loss: 0.0287, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7273  
 Step 67: Loss: 0.0282, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6278  
 Step 68: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5286  
 Step 69: Loss: 0.0272, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4298  
 Step 70: Loss: 0.0267, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.3313  
 Step 71: Loss: 0.0262, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2332  
 Step 72: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1356  
 Step 73: Loss: 0.0253, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0384  
 Step 74: Loss: 0.0248, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9418  
 Step 75: Loss: 0.0244, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8458  
 Step 76: Loss: 0.0239, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7505  
 Step 77: Loss: 0.0235, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6559  
 Step 78: Loss: 0.0231, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5620  
 Step 79: Loss: 0.0226, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4691  
 Step 80: Loss: 0.0222, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3771  
 Step 81: Loss: 0.0218, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2862  
 Step 82: Loss: 0.0214, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1965  
 Step 83: Loss: 0.0211, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1082  
 Step 84: Loss: 0.0207, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0213  
 Step 85: Loss: 0.0204, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.9362  
 Step 86: Loss: 0.0201, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.8531  
 Step 87: Loss: 0.0198, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.7721  
 Step 88: Loss: 0.0195, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.6936  
 Step 89: Loss: 0.0193, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.6178  
 Step 90: Loss: 0.0191, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0013, Distance: 3.5452  
 Step 91: Loss: 0.0189, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0015, Distance: 3.4761  
 Step 92: Loss: 0.0187, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.4109  
 Step 93: Loss: 0.0186, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.3500  
 Step 94: Loss: 0.0185, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0020, Distance: 3.2938  
 Step 95: Loss: 0.0184, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.2428  
 Step 96: Loss: 0.0184, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1973  
 Step 97: Loss: 0.0184, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.1577  
 Step 98: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.1241  
 Step 99: Loss: 0.0183, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0968  
 Step 100: Loss: 0.0183, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0756  
 Step 101: Loss: 0.0183, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0605  
 Step 102: Loss: 0.0183, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0512  
 Step 103: Loss: 0.0183, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0473  
 Step 104: Loss: 0.0183, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0481  
 Step 105: Loss: 0.0182, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0532  
 Step 106: Loss: 0.0182, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0616  
 Step 107: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 3.0728  
 Step 108: Loss: 0.0181, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0027, Distance: 3.0859  
 Step 109: Loss: 0.0181, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 3.1002  
 Step 110: Loss: 0.0181, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 3.1151  
 Step 111: Loss: 0.0181, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1298  
 Step 112: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.1439  
 Step 113: Loss: 0.0180, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1569  
 Step 114: Loss: 0.0180, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1685  
 Step 115: Loss: 0.0180, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1784  
 Step 116: Loss: 0.0180, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1866  
 Step 117: Loss: 0.0180, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1928  
 Step 118: Loss: 0.0180, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,

[illegible]







Aleatoric Entropy: 0.0022, Distance: 3.1377  
 Step 191: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1376  
 Step 192: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1376  
 Step 193: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1375  
 Step 194: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1374  
 Step 195: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1373  
 Step 196: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1372  
 Step 197: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1371  
 Step 198: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1370  
 Step 199: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.1369  
 Step 00: Loss: 0.7595, Total Entropy: 0.7595, Epistemic Entropy: 0.0601,  
 Aleatoric Entropy: 0.6994, Distance: 0.0000  
 Step 01: Loss: 0.1159, Total Entropy: 0.1079, Epistemic Entropy: 0.0037,  
 Aleatoric Entropy: 0.1042, Distance: 1.6000  
 Step 02: Loss: 0.0233, Total Entropy: 0.0086, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0085, Distance: 2.9374  
 Step 03: Loss: 0.0211, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.9928  
 Step 04: Loss: 0.0244, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8430  
 Step 05: Loss: 0.0278, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5442  
 Step 06: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1314  
 Step 07: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6279  
 Step 08: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0500  
 Step 09: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4098  
 Step 10: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7166  
 Step 11: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9776  
 Step 12: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1989  
 Step 13: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3854  
 Step 14: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5411  
 Step 15: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6696  
 Step 16: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7738  
 Step 17: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8565  
 Step 18: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9199  
 Step 19: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9659  
 Step 20: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9964  
 Step 21: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0130  
 Step 22: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0170  
 Step 23: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0097  
 Step 24: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9922  
 Step 25: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9655  
 Step 26: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9306  
 Step 27: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8882  
 Step 28: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8391  
 Step 29: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7839  
 Step 30: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7233  
 Step 31: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6577  
 Step 32: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5876  
 Step 33: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5136  
 Step 34: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4359  
 Step 35: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3550  
 Step 36: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2712  
 Step 37: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1848  
 Step 38: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0961  
 Step 39: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0052  
 Step 40: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9126  
 Step 41: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8183  
 Step 42: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7226  
 Step 43: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6257  
 Step 44: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5277  
 Step 45: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4289  
 Step 46: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3294  
 Step 47: Loss: 0.0361, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2292  
 Step 48: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1287  
 Step 49: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0278  
 Step 50: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9268  
 Step 51: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8256  
 Step 52: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7244  
 Step 53: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6233  
 Step 54: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5224  
 Step 55: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4216  
 Step 56: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3211  
 Step 57: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2210  
 Step 58: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1211  
 Step 59: Loss: 0.0301, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0217  
 Step 60: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9227  
 Step 61: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8241  
 Step 62: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.7259  
 Step 63: Loss: 0.0281, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6283  
 Step 64: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5311  
 Step 65: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4345  
 Step 66: Loss: 0.0267, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3385  
 Step 67: Loss: 0.0262, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2430  
 Step 68: Loss: 0.0258, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1480  
 Step 69: Loss: 0.0253, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0537  
 Step 70: Loss: 0.0248, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9600  
 Step 71: Loss: 0.0244, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8670  
 Step 72: Loss: 0.0239, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7746  
 Step 73: Loss: 0.0234, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.6828  
 Step 74: Loss: 0.0230, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.5917  
 Step 75: Loss: 0.0225, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.5013  
 Step 76: Loss: 0.0221, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.4117  
 Step 77: Loss: 0.0217, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3227  
 Step 78: Loss: 0.0212, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2345  
 Step 79: Loss: 0.0208, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1471  
 Step 80: Loss: 0.0204, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.0605  
 Step 81: Loss: 0.0200, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 3.9747  
 Step 82: Loss: 0.0196, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 3.8899  
 Step 83: Loss: 0.0192, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.8059  
 Step 84: Loss: 0.0188, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.7231  
 Step 85: Loss: 0.0185, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.6413  
 Step 86: Loss: 0.0181, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0003, Distance: 3.5607  
 Step 87: Loss: 0.0178, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.4815  
 Step 88: Loss: 0.0175, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.4038  
 Step 89: Loss: 0.0172, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.3278  
 Step 90: Loss: 0.0169, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.2536  
 Step 91: Loss: 0.0167, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.1815  
 Step 92: Loss: 0.0165, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.1118  
 Step 93: Loss: 0.0163, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.0448  
 Step 94: Loss: 0.0161, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 2.9807  
 Step 95: Loss: 0.0160, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 2.9200  
 Step 96: Loss: 0.0159, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 2.8631  
 Step 97: Loss: 0.0158, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.8103  
 Step 98: Loss: 0.0158, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.7620  
 Step 99: Loss: 0.0157, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.7186  
 Step 100: Loss: 0.0157, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.6804  
 Step 101: Loss: 0.0157, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.6477  
 Step 102: Loss: 0.0157, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.6207  
 Step 103: Loss: 0.0156, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.5994  
 Step 104: Loss: 0.0156, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.5838  
 Step 105: Loss: 0.0156, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.5735  
 Step 106: Loss: 0.0155, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.5683  
 Step 107: Loss: 0.0155, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.5675  
 Step 108: Loss: 0.0154, Total Entropy: 0.0026, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.5706  
 Step 109: Loss: 0.0154, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0025, Distance: 2.5769  
 Step 110: Loss: 0.0154, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0024, Distance: 2.5855  
 Step 111: Loss: 0.0153, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.5958  
 Step 112: Loss: 0.0153, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.6070  
 Step 113: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.6186  
 Step 114: Loss: 0.0153, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.6299  
 Step 115: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6404  
 Step 116: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6499  
 Step 117: Loss: 0.0152, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6580  
 Step 118: Loss: 0.0152, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6645  
 Step 119: Loss: 0.0152, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6693  
 Step 120: Loss: 0.0152, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6725  
 Step 121: Loss: 0.0152, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6739  
 Step 122: Loss: 0.0152, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6738  
 Step 123: Loss: 0.0152, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6722  
 Step 124: Loss: 0.0151, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6693  
 Step 125: Loss: 0.0151, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6653  
 Step 126: Loss: 0.0151, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6603  
 Step 127: Loss: 0.0151, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6546  
 Step 128: Loss: 0.0151, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6484  
 Step 129: Loss: 0.0151, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6419  
 Step 130: Loss: 0.0151, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6352  
 Step 131: Loss: 0.0151, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6286  
 Step 132: Loss: 0.0151, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6222  
 Step 133: Loss: 0.0151, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6161  
 Step 134: Loss: 0.0150, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,







Aleatoric Entropy: 0.0019, Distance: 2.5761  
 Step 183: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5759  
 Step 184: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5757  
 Step 185: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5756  
 Step 186: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5754  
 Step 187: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5752  
 Step 188: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5750  
 Step 189: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5748  
 Step 190: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5746  
 Step 191: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5744  
 Step 192: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5741  
 Step 193: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5739  
 Step 194: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5736  
 Step 195: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5733  
 Step 196: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5730  
 Step 197: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5727  
 Step 198: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5724  
 Step 199: Loss: 0.0148, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.5721  
 Step 00: Loss: 0.7567, Total Entropy: 0.7567, Epistemic Entropy: 0.0774,  
 Aleatoric Entropy: 0.6793, Distance: 0.0000  
 Step 01: Loss: 0.1801, Total Entropy: 0.1721, Epistemic Entropy: 0.0197,  
 Aleatoric Entropy: 0.1524, Distance: 1.6000  
 Step 02: Loss: 0.0274, Total Entropy: 0.0129, Epistemic Entropy: 0.0007,  
 Aleatoric Entropy: 0.0122, Distance: 2.9162  
 Step 03: Loss: 0.0215, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 4.0053  
 Step 04: Loss: 0.0247, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8941  
 Step 05: Loss: 0.0282, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6323  
 Step 06: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.2540  
Step 07: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.7823  
Step 08: Loss: 0.0362, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.2336  
Step 09: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.6203  
Step 10: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.9516  
Step 11: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.2352  
Step 12: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.4771  
Step 13: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.6824  
Step 14: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.8551  
Step 15: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.9990  
Step 16: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1171  
Step 17: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2121  
Step 18: Loss: 0.0464, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2864  
Step 19: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3420  
Step 20: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3808  
Step 21: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4043  
Step 22: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4141  
Step 23: Loss: 0.0471, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.4114  
Step 24: Loss: 0.0470, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3975  
Step 25: Loss: 0.0469, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3733  
Step 26: Loss: 0.0467, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.3399  
Step 27: Loss: 0.0465, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2982  
Step 28: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.2488  
Step 29: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 9.1926  
Step 30: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.1302  
 Step 31: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0622  
 Step 32: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9891  
 Step 33: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9114  
 Step 34: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8297  
 Step 35: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7443  
 Step 36: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6555  
 Step 37: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5638  
 Step 38: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4694  
 Step 39: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3726  
 Step 40: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2737  
 Step 41: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1729  
 Step 42: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0703  
 Step 43: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9663  
 Step 44: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8609  
 Step 45: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7543  
 Step 46: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6466  
 Step 47: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5380  
 Step 48: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4287  
 Step 49: Loss: 0.0366, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3186  
 Step 50: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2079  
 Step 51: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0968  
 Step 52: Loss: 0.0349, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9852  
 Step 53: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8733  
 Step 54: Loss: 0.0338, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.7612  
 Step 55: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6489  
 Step 56: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5365  
 Step 57: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4240  
 Step 58: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3115  
 Step 59: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1991  
 Step 60: Loss: 0.0305, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0867  
 Step 61: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9745  
 Step 62: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8625  
 Step 63: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7508  
 Step 64: Loss: 0.0282, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6393  
 Step 65: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5281  
 Step 66: Loss: 0.0271, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4173  
 Step 67: Loss: 0.0266, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3070  
 Step 68: Loss: 0.0261, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1971  
 Step 69: Loss: 0.0255, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0878  
 Step 70: Loss: 0.0250, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9791  
 Step 71: Loss: 0.0245, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8711  
 Step 72: Loss: 0.0240, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7639  
 Step 73: Loss: 0.0235, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6574  
 Step 74: Loss: 0.0230, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5520  
 Step 75: Loss: 0.0225, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4475  
 Step 76: Loss: 0.0221, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3442  
 Step 77: Loss: 0.0216, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2422  
 Step 78: Loss: 0.0212, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0005, Distance: 4.1417  
 Step 79: Loss: 0.0208, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0429  
 Step 80: Loss: 0.0204, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.9460  
 Step 81: Loss: 0.0200, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.8512  
 Step 82: Loss: 0.0197, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.7589  
 Step 83: Loss: 0.0194, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.6694  
 Step 84: Loss: 0.0191, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.5831  
 Step 85: Loss: 0.0189, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.5005  
 Step 86: Loss: 0.0187, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.4220  
 Step 87: Loss: 0.0185, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 3.3483  
 Step 88: Loss: 0.0184, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.2797  
 Step 89: Loss: 0.0183, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.2170  
 Step 90: Loss: 0.0183, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 3.1608  
 Step 91: Loss: 0.0182, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1115  
 Step 92: Loss: 0.0182, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0696  
 Step 93: Loss: 0.0182, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0354  
 Step 94: Loss: 0.0181, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 3.0091  
 Step 95: Loss: 0.0181, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.9906  
 Step 96: Loss: 0.0181, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.9797  
 Step 97: Loss: 0.0181, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.9758  
 Step 98: Loss: 0.0180, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.9782  
 Step 99: Loss: 0.0180, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.9860  
 Step 100: Loss: 0.0179, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.9983  
 Step 101: Loss: 0.0179, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0138  
 Step 102: Loss: 0.0178, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0026, Distance: 3.0315  
 Step 103: Loss: 0.0178, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0503  
 Step 104: Loss: 0.0178, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0693  
 Step 105: Loss: 0.0178, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0877  
 Step 106: Loss: 0.0177, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1046  
 Step 107: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1197  
 Step 108: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1324  
 Step 109: Loss: 0.0177, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1425  
 Step 110: Loss: 0.0177, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1499  
 Step 111: Loss: 0.0177, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1546  
 Step 112: Loss: 0.0177, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1567  
 Step 113: Loss: 0.0177, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1563  
 Step 114: Loss: 0.0177, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1536  
 Step 115: Loss: 0.0177, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1490  
 Step 116: Loss: 0.0177, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1427  
 Step 117: Loss: 0.0177, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1351  
 Step 118: Loss: 0.0177, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1265  
 Step 119: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.1172  
 Step 120: Loss: 0.0177, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.1077  
 Step 121: Loss: 0.0177, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 3.0981  
 Step 122: Loss: 0.0176, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0888  
 Step 123: Loss: 0.0176, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0801  
 Step 124: Loss: 0.0176, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0722  
 Step 125: Loss: 0.0176, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 3.0652  
 Step 126: Loss: 0.0176, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,





[illegible]

[illegible]

Aleatoric Entropy: 0.0022, Distance: 3.0724  
 Step 199: Loss: 0.0176, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 3.0725  
 Step 00: Loss: 0.7485, Total Entropy: 0.7485, Epistemic Entropy: 0.0250,  
 Aleatoric Entropy: 0.7235, Distance: 0.0000  
 Step 01: Loss: 0.2488, Total Entropy: 0.2408, Epistemic Entropy: 0.0041,  
 Aleatoric Entropy: 0.2367, Distance: 1.6000  
 Step 02: Loss: 0.0359, Total Entropy: 0.0224, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0221, Distance: 2.7050  
 Step 03: Loss: 0.0212, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.7186  
 Step 04: Loss: 0.0233, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.5662  
 Step 05: Loss: 0.0265, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2763  
 Step 06: Loss: 0.0294, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.8763  
 Step 07: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3868  
 Step 08: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8228  
 Step 09: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1957  
 Step 10: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5146  
 Step 11: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7868  
 Step 12: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0182  
 Step 13: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2135  
 Step 14: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3771  
 Step 15: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5122  
 Step 16: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6219  
 Step 17: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7088  
 Step 18: Loss: 0.0439, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7751  
 Step 19: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8229  
 Step 20: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8538  
 Step 21: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8697  
 Step 22: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.8718  
 Step 23: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8615  
 Step 24: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8399  
 Step 25: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8081  
 Step 26: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7671  
 Step 27: Loss: 0.0436, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7177  
 Step 28: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6606  
 Step 29: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5967  
 Step 30: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5265  
 Step 31: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4507  
 Step 32: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3699  
 Step 33: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2845  
 Step 34: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1951  
 Step 35: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1022  
 Step 36: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0060  
 Step 37: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9070  
 Step 38: Loss: 0.0390, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8055  
 Step 39: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7019  
 Step 40: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5963  
 Step 41: Loss: 0.0375, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4892  
 Step 42: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3807  
 Step 43: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2710  
 Step 44: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1603  
 Step 45: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0489  
 Step 46: Loss: 0.0347, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.9368  
 Step 47: Loss: 0.0341, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8242  
 Step 48: Loss: 0.0336, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7113  
 Step 49: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5981  
 Step 50: Loss: 0.0324, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4847  
 Step 51: Loss: 0.0319, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3713  
 Step 52: Loss: 0.0313, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2579  
 Step 53: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1446  
 Step 54: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0315  
 Step 55: Loss: 0.0296, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9186  
 Step 56: Loss: 0.0291, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8061  
 Step 57: Loss: 0.0285, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6940  
 Step 58: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5823  
 Step 59: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4711  
 Step 60: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3605  
 Step 61: Loss: 0.0264, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2506  
 Step 62: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1413  
 Step 63: Loss: 0.0253, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0328  
 Step 64: Loss: 0.0248, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9251  
 Step 65: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8182  
 Step 66: Loss: 0.0238, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7123  
 Step 67: Loss: 0.0233, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.6074  
 Step 68: Loss: 0.0228, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5036  
 Step 69: Loss: 0.0224, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.4010  
 Step 70: Loss: 0.0219, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0004, Distance: 4.2996  
 Step 71: Loss: 0.0215, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1997  
 Step 72: Loss: 0.0211, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1014  
 Step 73: Loss: 0.0207, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 4.0047  
 Step 74: Loss: 0.0203, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.9100  
 Step 75: Loss: 0.0199, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 3.8173  
 Step 76: Loss: 0.0196, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 3.7271  
 Step 77: Loss: 0.0193, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.6394  
 Step 78: Loss: 0.0190, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.5547  
 Step 79: Loss: 0.0187, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.4734  
 Step 80: Loss: 0.0185, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.3957  
 Step 81: Loss: 0.0182, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.3221  
 Step 82: Loss: 0.0181, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2531  
 Step 83: Loss: 0.0179, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1890  
 Step 84: Loss: 0.0178, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1304  
 Step 85: Loss: 0.0177, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0776  
 Step 86: Loss: 0.0177, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0309  
 Step 87: Loss: 0.0176, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9908  
 Step 88: Loss: 0.0176, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9574  
 Step 89: Loss: 0.0176, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.9309  
 Step 90: Loss: 0.0176, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.9111  
 Step 91: Loss: 0.0176, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.8979  
 Step 92: Loss: 0.0175, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.8908  
 Step 93: Loss: 0.0175, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.8893  
 Step 94: Loss: 0.0175, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0029, Distance: 2.8926  
 Step 95: Loss: 0.0174, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9000  
 Step 96: Loss: 0.0174, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9104  
 Step 97: Loss: 0.0173, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9230  
 Step 98: Loss: 0.0173, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.9369  
 Step 99: Loss: 0.0173, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.9513  
 Step 100: Loss: 0.0172, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.9655  
 Step 101: Loss: 0.0172, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.9788  
 Step 102: Loss: 0.0172, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9907  
 Step 103: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0007  
 Step 104: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0087  
 Step 105: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0144  
 Step 106: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0178  
 Step 107: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0190  
 Step 108: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0183  
 Step 109: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0157  
 Step 110: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0116  
 Step 111: Loss: 0.0171, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0062  
 Step 112: Loss: 0.0171, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9999  
 Step 113: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9929  
 Step 114: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9855  
 Step 115: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9779  
 Step 116: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9704  
 Step 117: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9632  
 Step 118: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,









Aleatoric Entropy: 0.0022, Distance: 2.9362  
 Step 191: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9362  
 Step 192: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9362  
 Step 193: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9362  
 Step 194: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9362  
 Step 195: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9361  
 Step 196: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9361  
 Step 197: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9361  
 Step 198: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9361  
 Step 199: Loss: 0.0170, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9360  
 Step 00: Loss: 0.7426, Total Entropy: 0.7426, Epistemic Entropy: 0.0838,  
 Aleatoric Entropy: 0.6588, Distance: 0.0000  
 Step 01: Loss: 0.2221, Total Entropy: 0.2141, Epistemic Entropy: 0.0370,  
 Aleatoric Entropy: 0.1772, Distance: 1.6000  
 Step 02: Loss: 0.0326, Total Entropy: 0.0185, Epistemic Entropy: 0.0023,  
 Aleatoric Entropy: 0.0162, Distance: 2.8113  
 Step 03: Loss: 0.0213, Total Entropy: 0.0019, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0017, Distance: 3.8705  
 Step 04: Loss: 0.0240, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.7430  
 Step 05: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4680  
 Step 06: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0771  
 Step 07: Loss: 0.0330, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5927  
 Step 08: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0311  
 Step 09: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4045  
 Step 10: Loss: 0.0386, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7223  
 Step 11: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9921  
 Step 12: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2202  
 Step 13: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4115  
 Step 14: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5704  
 Step 15: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7005  
 Step 16: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8051  
 Step 17: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8868  
 Step 18: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9480  
 Step 19: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9910  
 Step 20: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0174  
 Step 21: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0291  
 Step 22: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0274  
 Step 23: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0137  
 Step 24: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9892  
 Step 25: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9550  
 Step 26: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9119  
 Step 27: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8608  
 Step 28: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8026  
 Step 29: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7378  
 Step 30: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6672  
 Step 31: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5912  
 Step 32: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5104  
 Step 33: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4253  
 Step 34: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3363  
 Step 35: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2438  
 Step 36: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1481  
 Step 37: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0495  
 Step 38: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.9484  
 Step 39: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8451  
 Step 40: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7398  
 Step 41: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6327  
 Step 42: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5241  
 Step 43: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4141  
 Step 44: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3031  
 Step 45: Loss: 0.0360, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1910  
 Step 46: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0782  
 Step 47: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9647  
 Step 48: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8507  
 Step 49: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7363  
 Step 50: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6216  
 Step 51: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5067  
 Step 52: Loss: 0.0320, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3918  
 Step 53: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2768  
 Step 54: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1619  
 Step 55: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0472  
 Step 56: Loss: 0.0297, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9327  
 Step 57: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8184  
 Step 58: Loss: 0.0285, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7044  
 Step 59: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5908  
 Step 60: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4776  
 Step 61: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3649  
 Step 62: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.2526  
 Step 63: Loss: 0.0257, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1409  
 Step 64: Loss: 0.0252, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0298  
 Step 65: Loss: 0.0247, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.9192  
 Step 66: Loss: 0.0241, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8094  
 Step 67: Loss: 0.0236, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7002  
 Step 68: Loss: 0.0231, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5918  
 Step 69: Loss: 0.0226, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4843  
 Step 70: Loss: 0.0221, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.3776  
 Step 71: Loss: 0.0216, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.2719  
 Step 72: Loss: 0.0211, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.1674  
 Step 73: Loss: 0.0206, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.0641  
 Step 74: Loss: 0.0202, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.9622  
 Step 75: Loss: 0.0198, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.8620  
 Step 76: Loss: 0.0194, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.7636  
 Step 77: Loss: 0.0190, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.6674  
 Step 78: Loss: 0.0187, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.5738  
 Step 79: Loss: 0.0184, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0010, Distance: 3.4831  
 Step 80: Loss: 0.0182, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0012, Distance: 3.3960  
 Step 81: Loss: 0.0180, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.3130  
 Step 82: Loss: 0.0178, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 3.2348  
 Step 83: Loss: 0.0177, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 3.1623  
 Step 84: Loss: 0.0177, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.0961  
 Step 85: Loss: 0.0176, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.0373  
 Step 86: Loss: 0.0176, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0026, Distance: 2.9866  
 Step 87: Loss: 0.0176, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.9447  
 Step 88: Loss: 0.0176, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.9123  
 Step 89: Loss: 0.0176, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.8895  
 Step 90: Loss: 0.0176, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.8763  
 Step 91: Loss: 0.0176, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.8722  
 Step 92: Loss: 0.0175, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.8764  
 Step 93: Loss: 0.0174, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.8875  
 Step 94: Loss: 0.0174, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.9041  
 Step 95: Loss: 0.0173, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9248  
 Step 96: Loss: 0.0172, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.9478  
 Step 97: Loss: 0.0172, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.9716  
 Step 98: Loss: 0.0172, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9951  
 Step 99: Loss: 0.0172, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0172  
 Step 100: Loss: 0.0172, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0369  
 Step 101: Loss: 0.0172, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0538  
 Step 102: Loss: 0.0172, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0674  
 Step 103: Loss: 0.0172, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0774  
 Step 104: Loss: 0.0172, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0839  
 Step 105: Loss: 0.0172, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0869  
 Step 106: Loss: 0.0172, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0867  
 Step 107: Loss: 0.0171, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0835  
 Step 108: Loss: 0.0171, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0776  
 Step 109: Loss: 0.0171, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.0696  
 Step 110: Loss: 0.0171, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0018, Distance: 3.0598  
 Step 111: Loss: 0.0171, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0487  
 Step 112: Loss: 0.0171, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.0369  
 Step 113: Loss: 0.0171, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0247  
 Step 114: Loss: 0.0171, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.0126  
 Step 115: Loss: 0.0171, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.0010  
 Step 116: Loss: 0.0171, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9903  
 Step 117: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9807  
 Step 118: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9725  
 Step 119: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9659  
 Step 120: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9609  
 Step 121: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9575  
 Step 122: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9558  
 Step 123: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9556  
 Step 124: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9567  
 Step 125: Loss: 0.0171, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9590  
 Step 126: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.9622  
 Step 127: Loss: 0.0171, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9662  
 Step 128: Loss: 0.0170, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9707  
 Step 129: Loss: 0.0170, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9754  
 Step 130: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9801  
 Step 131: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.9846  
 Step 132: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9887  
 Step 133: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9924  
 Step 134: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,







Aleatoric Entropy: 0.0020, Distance: 2.9855  
 Step 183: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9855  
 Step 184: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9855  
 Step 185: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9856  
 Step 186: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9858  
 Step 187: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9859  
 Step 188: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9861  
 Step 189: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9863  
 Step 190: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9865  
 Step 191: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9867  
 Step 192: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9868  
 Step 193: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9870  
 Step 194: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9871  
 Step 195: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9871  
 Step 196: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9872  
 Step 197: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9872  
 Step 198: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9872  
 Step 199: Loss: 0.0170, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9871  
 Step 00: Loss: 0.7416, Total Entropy: 0.7416, Epistemic Entropy: 0.0768,  
 Aleatoric Entropy: 0.6648, Distance: 0.0000  
 Step 01: Loss: 0.1813, Total Entropy: 0.1733, Epistemic Entropy: 0.0102,  
 Aleatoric Entropy: 0.1631, Distance: 1.6000  
 Step 02: Loss: 0.0255, Total Entropy: 0.0112, Epistemic Entropy: 0.0003,  
 Aleatoric Entropy: 0.0109, Distance: 2.8679  
 Step 03: Loss: 0.0208, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.9409  
 Step 04: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8168  
 Step 05: Loss: 0.0278, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5421  
 Step 06: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 6.1504  
 Step 07: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6646  
 Step 08: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1011  
 Step 09: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4724  
 Step 10: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7879  
 Step 11: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0551  
 Step 12: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2801  
 Step 13: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4681  
 Step 14: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6232  
 Step 15: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7492  
 Step 16: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8490  
 Step 17: Loss: 0.0446, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9256  
 Step 18: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9811  
 Step 19: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0179  
 Step 20: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0376  
 Step 21: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0420  
 Step 22: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0326  
 Step 23: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0106  
 Step 24: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9774  
 Step 25: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9339  
 Step 26: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8811  
 Step 27: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8199  
 Step 28: Loss: 0.0438, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7511  
 Step 29: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6754  
 Step 30: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5935  
Step 31: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.5059  
Step 32: Loss: 0.0421, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.4132  
Step 33: Loss: 0.0416, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.3160  
Step 34: Loss: 0.0411, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.2146  
Step 35: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.1096  
Step 36: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 8.0012  
Step 37: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.8899  
Step 38: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.7759  
Step 39: Loss: 0.0383, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.6597  
Step 40: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.5413  
Step 41: Loss: 0.0371, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.4211  
Step 42: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.2993  
Step 43: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.1762  
Step 44: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 7.0518  
Step 45: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.9264  
Step 46: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.8001  
Step 47: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.6731  
Step 48: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.5455  
Step 49: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.4174  
Step 50: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.2891  
Step 51: Loss: 0.0308, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.1605  
Step 52: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 6.0319  
Step 53: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0000, Distance: 5.9033  
Step 54: Loss: 0.0289, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.7748  
 Step 55: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6466  
 Step 56: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5187  
 Step 57: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3913  
 Step 58: Loss: 0.0264, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2644  
 Step 59: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1381  
 Step 60: Loss: 0.0251, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0125  
 Step 61: Loss: 0.0245, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8878  
 Step 62: Loss: 0.0239, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7640  
 Step 63: Loss: 0.0233, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6411  
 Step 64: Loss: 0.0228, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5194  
 Step 65: Loss: 0.0222, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.3989  
 Step 66: Loss: 0.0216, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.2797  
 Step 67: Loss: 0.0211, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1620  
 Step 68: Loss: 0.0205, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.0460  
 Step 69: Loss: 0.0200, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.9317  
 Step 70: Loss: 0.0196, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.8195  
 Step 71: Loss: 0.0191, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.7095  
 Step 72: Loss: 0.0187, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.6022  
 Step 73: Loss: 0.0183, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.4978  
 Step 74: Loss: 0.0179, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.3968  
 Step 75: Loss: 0.0176, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.2998  
 Step 76: Loss: 0.0174, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.2073  
 Step 77: Loss: 0.0172, Total Entropy: 0.0016, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0015, Distance: 3.1201  
 Step 78: Loss: 0.0170, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0018, Distance: 3.0390  
 Step 79: Loss: 0.0169, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.9649  
 Step 80: Loss: 0.0169, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.8988  
 Step 81: Loss: 0.0169, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.8416  
 Step 82: Loss: 0.0169, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.7942  
 Step 83: Loss: 0.0169, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0030, Distance: 2.7571  
 Step 84: Loss: 0.0169, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.7307  
 Step 85: Loss: 0.0169, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 2.7150  
 Step 86: Loss: 0.0168, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 2.7094  
 Step 87: Loss: 0.0167, Total Entropy: 0.0031, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.7132  
 Step 88: Loss: 0.0166, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.7248  
 Step 89: Loss: 0.0165, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.7428  
 Step 90: Loss: 0.0164, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.7652  
 Step 91: Loss: 0.0164, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.7902  
 Step 92: Loss: 0.0163, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.8161  
 Step 93: Loss: 0.0163, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8413  
 Step 94: Loss: 0.0163, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.8646  
 Step 95: Loss: 0.0163, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.8849  
 Step 96: Loss: 0.0163, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.9015  
 Step 97: Loss: 0.0163, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.9141  
 Step 98: Loss: 0.0163, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 2.9223  
 Step 99: Loss: 0.0163, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 2.9262  
 Step 100: Loss: 0.0163, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 2.9260  
 Step 101: Loss: 0.0162, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 2.9221  
 Step 102: Loss: 0.0162, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0016, Distance: 2.9147  
 Step 103: Loss: 0.0162, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0016, Distance: 2.9045  
 Step 104: Loss: 0.0162, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.8921  
 Step 105: Loss: 0.0162, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.8779  
 Step 106: Loss: 0.0162, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.8627  
 Step 107: Loss: 0.0161, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.8471  
 Step 108: Loss: 0.0161, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.8316  
 Step 109: Loss: 0.0161, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8167  
 Step 110: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.8031  
 Step 111: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.7910  
 Step 112: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.7807  
 Step 113: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7726  
 Step 114: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7666  
 Step 115: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7629  
 Step 116: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7613  
 Step 117: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7616  
 Step 118: Loss: 0.0161, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7636  
 Step 119: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7669  
 Step 120: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7714  
 Step 121: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.7765  
 Step 122: Loss: 0.0161, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.7820  
 Step 123: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.7876  
 Step 124: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.7930  
 Step 125: Loss: 0.0161, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.7979  
 Step 126: Loss: 0.0161, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,







[illegible]

Aleatoric Entropy: 0.0020, Distance: 2.7899  
 Step 199: Loss: 0.0160, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.7899  
 Step 00: Loss: 0.7316, Total Entropy: 0.7316, Epistemic Entropy: 0.0178,  
 Aleatoric Entropy: 0.7138, Distance: 0.0000  
 Step 01: Loss: 0.0781, Total Entropy: 0.0701, Epistemic Entropy: 0.0010,  
 Aleatoric Entropy: 0.0691, Distance: 1.6000  
 Step 02: Loss: 0.0222, Total Entropy: 0.0082, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0081, Distance: 2.8085  
 Step 03: Loss: 0.0202, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.7476  
 Step 04: Loss: 0.0229, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5074  
 Step 05: Loss: 0.0258, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1380  
 Step 06: Loss: 0.0284, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6697  
 Step 07: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1228  
 Step 08: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5115  
 Step 09: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8465  
 Step 10: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1358  
 Step 11: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3859  
 Step 12: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6017  
 Step 13: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7874  
 Step 14: Loss: 0.0397, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9466  
 Step 15: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0822  
 Step 16: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1967  
 Step 17: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2926  
 Step 18: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3717  
 Step 19: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4357  
 Step 20: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4861  
 Step 21: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5243  
 Step 22: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.5513  
 Step 23: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5682  
 Step 24: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5760  
 Step 25: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5756  
 Step 26: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5677  
 Step 27: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5531  
 Step 28: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5323  
 Step 29: Loss: 0.0425, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5058  
 Step 30: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4743  
 Step 31: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4382  
 Step 32: Loss: 0.0420, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3978  
 Step 33: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3536  
 Step 34: Loss: 0.0415, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3059  
 Step 35: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2550  
 Step 36: Loss: 0.0410, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2013  
 Step 37: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1449  
 Step 38: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0862  
 Step 39: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0252  
 Step 40: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9624  
 Step 41: Loss: 0.0395, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8977  
 Step 42: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8315  
 Step 43: Loss: 0.0388, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7638  
 Step 44: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6949  
 Step 45: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6248  
 Step 46: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.5537  
 Step 47: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4818  
 Step 48: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4090  
 Step 49: Loss: 0.0367, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3356  
 Step 50: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2616  
 Step 51: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1870  
 Step 52: Loss: 0.0356, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1120  
 Step 53: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0367  
 Step 54: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9610  
 Step 55: Loss: 0.0344, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8851  
 Step 56: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8089  
 Step 57: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7327  
 Step 58: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6563  
 Step 59: Loss: 0.0329, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5798  
 Step 60: Loss: 0.0325, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5033  
 Step 61: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4269  
 Step 62: Loss: 0.0318, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3504  
 Step 63: Loss: 0.0314, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2741  
 Step 64: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1978  
 Step 65: Loss: 0.0306, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1217  
 Step 66: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0457  
 Step 67: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9698  
 Step 68: Loss: 0.0295, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8942  
 Step 69: Loss: 0.0291, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8187  
 Step 70: Loss: 0.0287, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.7435  
 Step 71: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6685  
 Step 72: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5938  
 Step 73: Loss: 0.0276, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5194  
 Step 74: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4452  
 Step 75: Loss: 0.0269, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3714  
 Step 76: Loss: 0.0265, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2978  
 Step 77: Loss: 0.0261, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2246  
 Step 78: Loss: 0.0258, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1518  
 Step 79: Loss: 0.0254, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0793  
 Step 80: Loss: 0.0250, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0072  
 Step 81: Loss: 0.0247, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9354  
 Step 82: Loss: 0.0243, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8641  
 Step 83: Loss: 0.0240, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7931  
 Step 84: Loss: 0.0236, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7226  
 Step 85: Loss: 0.0233, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.6525  
 Step 86: Loss: 0.0229, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.5829  
 Step 87: Loss: 0.0226, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.5137  
 Step 88: Loss: 0.0223, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.4449  
 Step 89: Loss: 0.0219, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.3767  
 Step 90: Loss: 0.0216, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.3089  
 Step 91: Loss: 0.0213, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2417  
 Step 92: Loss: 0.0209, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1749  
 Step 93: Loss: 0.0206, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1087  
 Step 94: Loss: 0.0203, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 4.0430  
Step 95: Loss: 0.0200, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 3.9779  
Step 96: Loss: 0.0197, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 3.9135  
Step 97: Loss: 0.0194, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0001, Distance: 3.8496  
Step 98: Loss: 0.0191, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 3.7864  
Step 99: Loss: 0.0188, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 3.7238  
Step 100: Loss: 0.0185, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 3.6620  
Step 101: Loss: 0.0182, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0002, Distance: 3.6009  
Step 102: Loss: 0.0180, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 3.5407  
Step 103: Loss: 0.0177, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 3.4812  
Step 104: Loss: 0.0175, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0003, Distance: 3.4227  
Step 105: Loss: 0.0172, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 3.3651  
Step 106: Loss: 0.0170, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0004, Distance: 3.3086  
Step 107: Loss: 0.0168, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0005, Distance: 3.2532  
Step 108: Loss: 0.0166, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0006, Distance: 3.1989  
Step 109: Loss: 0.0164, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0006, Distance: 3.1459  
Step 110: Loss: 0.0162, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0007, Distance: 3.0943  
Step 111: Loss: 0.0160, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0008, Distance: 3.0442  
Step 112: Loss: 0.0159, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0009, Distance: 2.9957  
Step 113: Loss: 0.0158, Total Entropy: 0.0010, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0010, Distance: 2.9488  
Step 114: Loss: 0.0156, Total Entropy: 0.0011, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0011, Distance: 2.9039  
Step 115: Loss: 0.0155, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0012, Distance: 2.8608  
Step 116: Loss: 0.0154, Total Entropy: 0.0013, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0013, Distance: 2.8199  
Step 117: Loss: 0.0154, Total Entropy: 0.0015, Epistemic Entropy: 0.0000,  
Aleatoric Entropy: 0.0014, Distance: 2.7811  
Step 118: Loss: 0.0153, Total Entropy: 0.0016, Epistemic Entropy: 0.0000,



Aleatoric Entropy: 0.0016, Distance: 2.7447  
 Step 119: Loss: 0.0152, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.7108  
 Step 120: Loss: 0.0152, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.6794  
 Step 121: Loss: 0.0152, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.6507  
 Step 122: Loss: 0.0151, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.6246  
 Step 123: Loss: 0.0151, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.6014  
 Step 124: Loss: 0.0151, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.5809  
 Step 125: Loss: 0.0151, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.5631  
 Step 126: Loss: 0.0151, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.5480  
 Step 127: Loss: 0.0150, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.5355  
 Step 128: Loss: 0.0150, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.5256  
 Step 129: Loss: 0.0150, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.5180  
 Step 130: Loss: 0.0150, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.5125  
 Step 131: Loss: 0.0150, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.5091  
 Step 132: Loss: 0.0149, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.5075  
 Step 133: Loss: 0.0149, Total Entropy: 0.0024, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.5074  
 Step 134: Loss: 0.0149, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.5086  
 Step 135: Loss: 0.0149, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.5109  
 Step 136: Loss: 0.0149, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.5141  
 Step 137: Loss: 0.0148, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.5178  
 Step 138: Loss: 0.0148, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.5220  
 Step 139: Loss: 0.0148, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.5264  
 Step 140: Loss: 0.0148, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.5309  
 Step 141: Loss: 0.0148, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.5352  
 Step 142: Loss: 0.0148, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0020, Distance: 2.4981  
 Step 191: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4977  
 Step 192: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4974  
 Step 193: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4969  
 Step 194: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4965  
 Step 195: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4959  
 Step 196: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4954  
 Step 197: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4948  
 Step 198: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4942  
 Step 199: Loss: 0.0145, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.4935  
 Step 00: Loss: 0.7312, Total Entropy: 0.7312, Epistemic Entropy: 0.1157,  
 Aleatoric Entropy: 0.6155, Distance: 0.0000  
 Step 01: Loss: 0.1060, Total Entropy: 0.0980, Epistemic Entropy: 0.0103,  
 Aleatoric Entropy: 0.0877, Distance: 1.6000  
 Step 02: Loss: 0.0213, Total Entropy: 0.0065, Epistemic Entropy: 0.0004,  
 Aleatoric Entropy: 0.0061, Distance: 2.9490  
 Step 03: Loss: 0.0210, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 4.0126  
 Step 04: Loss: 0.0246, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8699  
 Step 05: Loss: 0.0280, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5774  
 Step 06: Loss: 0.0309, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1704  
 Step 07: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6722  
 Step 08: Loss: 0.0355, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0993  
 Step 09: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4639  
 Step 10: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7751  
 Step 11: Loss: 0.0402, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0404  
 Step 12: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2658  
 Step 13: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4560  
 Step 14: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.6153  
 Step 15: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7471  
 Step 16: Loss: 0.0443, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8545  
 Step 17: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9400  
 Step 18: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0059  
 Step 19: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0542  
 Step 20: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0866  
 Step 21: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1047  
 Step 22: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1100  
 Step 23: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1035  
 Step 24: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0866  
 Step 25: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0601  
 Step 26: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0250  
 Step 27: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9820  
 Step 28: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9321  
 Step 29: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8758  
 Step 30: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8137  
 Step 31: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7464  
 Step 32: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6745  
 Step 33: Loss: 0.0430, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5983  
 Step 34: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5184  
 Step 35: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4350  
 Step 36: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3486  
 Step 37: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2595  
 Step 38: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.1679  
 Step 39: Loss: 0.0404, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0740  
 Step 40: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9782  
 Step 41: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8807  
 Step 42: Loss: 0.0389, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7816  
 Step 43: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6811  
 Step 44: Loss: 0.0379, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5793  
 Step 45: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4765  
 Step 46: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3727  
 Step 47: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2681  
 Step 48: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1627  
 Step 49: Loss: 0.0353, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0567  
 Step 50: Loss: 0.0348, Total Entropy: 0.0000, Epistemic Entropy: -0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9501  
 Step 51: Loss: 0.0342, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8431  
 Step 52: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7357  
 Step 53: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6279  
 Step 54: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5199  
 Step 55: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4118  
 Step 56: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3034  
 Step 57: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1950  
 Step 58: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0866  
 Step 59: Loss: 0.0299, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9781  
 Step 60: Loss: 0.0294, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8698  
 Step 61: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7615  
 Step 62: Loss: 0.0283, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 5.6533  
 Step 63: Loss: 0.0277, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5454  
 Step 64: Loss: 0.0272, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4377  
 Step 65: Loss: 0.0267, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3304  
 Step 66: Loss: 0.0261, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2233  
 Step 67: Loss: 0.0256, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1167  
 Step 68: Loss: 0.0251, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0106  
 Step 69: Loss: 0.0246, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.9049  
 Step 70: Loss: 0.0240, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.7999  
 Step 71: Loss: 0.0235, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6954  
 Step 72: Loss: 0.0230, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5917  
 Step 73: Loss: 0.0225, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.4887  
 Step 74: Loss: 0.0220, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3864  
 Step 75: Loss: 0.0215, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.2851  
 Step 76: Loss: 0.0211, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.1847  
 Step 77: Loss: 0.0206, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0853  
 Step 78: Loss: 0.0201, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.9871  
 Step 79: Loss: 0.0197, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 3.8900  
 Step 80: Loss: 0.0192, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7943  
 Step 81: Loss: 0.0188, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.7000  
 Step 82: Loss: 0.0184, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.6074  
 Step 83: Loss: 0.0181, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.5165  
 Step 84: Loss: 0.0177, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.4276  
 Step 85: Loss: 0.0174, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.3410  
 Step 86: Loss: 0.0171, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0007, Distance: 3.2568  
 Step 87: Loss: 0.0168, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.1755  
 Step 88: Loss: 0.0166, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.0974  
 Step 89: Loss: 0.0164, Total Entropy: 0.0013, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.0228  
 Step 90: Loss: 0.0162, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 2.9523  
 Step 91: Loss: 0.0161, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 2.8862  
 Step 92: Loss: 0.0160, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.8252  
 Step 93: Loss: 0.0160, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.7697  
 Step 94: Loss: 0.0159, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.7203  
 Step 95: Loss: 0.0159, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.6773  
 Step 96: Loss: 0.0159, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.6411  
 Step 97: Loss: 0.0159, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.6121  
 Step 98: Loss: 0.0159, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.5903  
 Step 99: Loss: 0.0159, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.5756  
 Step 100: Loss: 0.0158, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.5676  
 Step 101: Loss: 0.0158, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 2.5659  
 Step 102: Loss: 0.0157, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 2.5698  
 Step 103: Loss: 0.0156, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.5783  
 Step 104: Loss: 0.0156, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 2.5904  
 Step 105: Loss: 0.0155, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 2.6052  
 Step 106: Loss: 0.0155, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 2.6216  
 Step 107: Loss: 0.0154, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 2.6386  
 Step 108: Loss: 0.0154, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.6554  
 Step 109: Loss: 0.0154, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.6712  
 Step 110: Loss: 0.0154, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0019, Distance: 2.6855  
 Step 111: Loss: 0.0154, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.6978  
 Step 112: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.7079  
 Step 113: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7155  
 Step 114: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7207  
 Step 115: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7235  
 Step 116: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7240  
 Step 117: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7223  
 Step 118: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7188  
 Step 119: Loss: 0.0154, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7136  
 Step 120: Loss: 0.0153, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 2.7071  
 Step 121: Loss: 0.0153, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.6995  
 Step 122: Loss: 0.0153, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.6912  
 Step 123: Loss: 0.0153, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 2.6824  
 Step 124: Loss: 0.0153, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6735  
 Step 125: Loss: 0.0153, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6646  
 Step 126: Loss: 0.0153, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6561  
 Step 127: Loss: 0.0153, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.6481  
 Step 128: Loss: 0.0153, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.6409  
 Step 129: Loss: 0.0153, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.6346  
 Step 130: Loss: 0.0153, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 2.6293  
 Step 131: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.6250  
 Step 132: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.6219  
 Step 133: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 2.6198  
 Step 134: Loss: 0.0153, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,





Aleatoric Entropy: 0.0019, Distance: 2.6394  
 Step 183: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6395  
 Step 184: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6395  
 Step 185: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6395  
 Step 186: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6395  
 Step 187: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6395  
 Step 188: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6394  
 Step 189: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6393  
 Step 190: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6393  
 Step 191: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6392  
 Step 192: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6391  
 Step 193: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6390  
 Step 194: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6389  
 Step 195: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6389  
 Step 196: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6388  
 Step 197: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6388  
 Step 198: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6388  
 Step 199: Loss: 0.0152, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 2.6388  
 Step 00: Loss: 0.7306, Total Entropy: 0.7306, Epistemic Entropy: 0.0850,  
 Aleatoric Entropy: 0.6456, Distance: 0.0000  
 Step 01: Loss: 0.5238, Total Entropy: 0.5158, Epistemic Entropy: 0.0477,  
 Aleatoric Entropy: 0.4680, Distance: 1.6000  
 Step 02: Loss: 0.1066, Total Entropy: 0.0945, Epistemic Entropy: 0.0046,  
 Aleatoric Entropy: 0.0899, Distance: 2.4329  
 Step 03: Loss: 0.0281, Total Entropy: 0.0109, Epistemic Entropy: 0.0005,  
 Aleatoric Entropy: 0.0104, Distance: 3.4337  
 Step 04: Loss: 0.0234, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 4.3263  
 Step 05: Loss: 0.0258, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 5.0885  
 Step 06: Loss: 0.0288, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.7387  
 Step 07: Loss: 0.0315, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2956  
 Step 08: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7744  
 Step 09: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1871  
 Step 10: Loss: 0.0377, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5430  
 Step 11: Loss: 0.0393, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8500  
 Step 12: Loss: 0.0406, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1141  
 Step 13: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3406  
 Step 14: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5339  
 Step 15: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6978  
 Step 16: Loss: 0.0442, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8353  
 Step 17: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9493  
 Step 18: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0422  
 Step 19: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1161  
 Step 20: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1730  
 Step 21: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2144  
 Step 22: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2419  
 Step 23: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2568  
 Step 24: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2604  
 Step 25: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2538  
 Step 26: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2379  
 Step 27: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2138  
 Step 28: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1821  
 Step 29: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1438  
 Step 30: Loss: 0.0455, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.0994  
 Step 31: Loss: 0.0452, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0496  
 Step 32: Loss: 0.0450, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9950  
 Step 33: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9360  
 Step 34: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8731  
 Step 35: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8067  
 Step 36: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7372  
 Step 37: Loss: 0.0433, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6647  
 Step 38: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5897  
 Step 39: Loss: 0.0426, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5123  
 Step 40: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4328  
 Step 41: Loss: 0.0418, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3514  
 Step 42: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2682  
 Step 43: Loss: 0.0409, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1834  
 Step 44: Loss: 0.0405, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0972  
 Step 45: Loss: 0.0400, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0096  
 Step 46: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9209  
 Step 47: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8311  
 Step 48: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7403  
 Step 49: Loss: 0.0382, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6488  
 Step 50: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5565  
 Step 51: Loss: 0.0373, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4635  
 Step 52: Loss: 0.0369, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3700  
 Step 53: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2760  
 Step 54: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.1817  
 Step 55: Loss: 0.0354, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0869  
 Step 56: Loss: 0.0350, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9920  
 Step 57: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8967  
 Step 58: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8013  
 Step 59: Loss: 0.0335, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7058  
 Step 60: Loss: 0.0331, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6103  
 Step 61: Loss: 0.0326, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5147  
 Step 62: Loss: 0.0321, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4191  
 Step 63: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3235  
 Step 64: Loss: 0.0312, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2281  
 Step 65: Loss: 0.0307, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1328  
 Step 66: Loss: 0.0302, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0377  
 Step 67: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9428  
 Step 68: Loss: 0.0293, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8481  
 Step 69: Loss: 0.0288, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7537  
 Step 70: Loss: 0.0284, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.6595  
 Step 71: Loss: 0.0279, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5657  
 Step 72: Loss: 0.0274, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.4723  
 Step 73: Loss: 0.0270, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3792  
 Step 74: Loss: 0.0265, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.2865  
 Step 75: Loss: 0.0261, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1942  
 Step 76: Loss: 0.0256, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1024  
 Step 77: Loss: 0.0252, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0110  
 Step 78: Loss: 0.0248, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0002, Distance: 4.9202  
 Step 79: Loss: 0.0243, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.8300  
 Step 80: Loss: 0.0239, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.7404  
 Step 81: Loss: 0.0235, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6515  
 Step 82: Loss: 0.0231, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.5633  
 Step 83: Loss: 0.0227, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4759  
 Step 84: Loss: 0.0223, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3895  
 Step 85: Loss: 0.0219, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.3040  
 Step 86: Loss: 0.0216, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.2197  
 Step 87: Loss: 0.0212, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.1366  
 Step 88: Loss: 0.0209, Total Entropy: 0.0006, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0006, Distance: 4.0549  
 Step 89: Loss: 0.0206, Total Entropy: 0.0007, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0006, Distance: 3.9747  
 Step 90: Loss: 0.0203, Total Entropy: 0.0008, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0007, Distance: 3.8963  
 Step 91: Loss: 0.0200, Total Entropy: 0.0009, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0008, Distance: 3.8199  
 Step 92: Loss: 0.0197, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0009, Distance: 3.7456  
 Step 93: Loss: 0.0195, Total Entropy: 0.0011, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.6738  
 Step 94: Loss: 0.0193, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0012, Distance: 3.6047  
 Step 95: Loss: 0.0191, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0013, Distance: 3.5387  
 Step 96: Loss: 0.0189, Total Entropy: 0.0015, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.4760  
 Step 97: Loss: 0.0188, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.4171  
 Step 98: Loss: 0.0187, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.3621  
 Step 99: Loss: 0.0186, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3116  
 Step 100: Loss: 0.0186, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2659  
 Step 101: Loss: 0.0185, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.2251  
 Step 102: Loss: 0.0185, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0024, Distance: 3.1897  
 Step 103: Loss: 0.0185, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1597  
 Step 104: Loss: 0.0185, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1354  
 Step 105: Loss: 0.0185, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.1166  
 Step 106: Loss: 0.0185, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.1034  
 Step 107: Loss: 0.0185, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0955  
 Step 108: Loss: 0.0185, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0926  
 Step 109: Loss: 0.0184, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0941  
 Step 110: Loss: 0.0184, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0028, Distance: 3.0994  
 Step 111: Loss: 0.0184, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1080  
 Step 112: Loss: 0.0183, Total Entropy: 0.0027, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 3.1191  
 Step 113: Loss: 0.0183, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.1321  
 Step 114: Loss: 0.0183, Total Entropy: 0.0025, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1460  
 Step 115: Loss: 0.0182, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1605  
 Step 116: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1747  
 Step 117: Loss: 0.0182, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1883  
 Step 118: Loss: 0.0182, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2009  
 Step 119: Loss: 0.0182, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2120  
 Step 120: Loss: 0.0182, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2216  
 Step 121: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2294  
 Step 122: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2353  
 Step 123: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2394  
 Step 124: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2417  
 Step 125: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2424  
 Step 126: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0019, Distance: 3.2415  
 Step 127: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2392  
 Step 128: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2357  
 Step 129: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2312  
 Step 130: Loss: 0.0182, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.2260  
 Step 131: Loss: 0.0182, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2201  
 Step 132: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2139  
 Step 133: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2076  
 Step 134: Loss: 0.0181, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.2012  
 Step 135: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1951  
 Step 136: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1893  
 Step 137: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1839  
 Step 138: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1792  
 Step 139: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1750  
 Step 140: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1715  
 Step 141: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1688  
 Step 142: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1667  
 Step 143: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1654  
 Step 144: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1647  
 Step 145: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1646  
 Step 146: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1651  
 Step 147: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1660  
 Step 148: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1673  
 Step 149: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1690  
 Step 150: Loss: 0.0181, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,

[illegible]

[illegible]

Aleatoric Entropy: 0.0021, Distance: 3.1814  
 Step 199: Loss: 0.0181, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1814  
 Step 00: Loss: 0.7298, Total Entropy: 0.7298, Epistemic Entropy: 0.0292,  
 Aleatoric Entropy: 0.7006, Distance: 0.0000  
 Step 01: Loss: 0.1056, Total Entropy: 0.0976, Epistemic Entropy: 0.0025,  
 Aleatoric Entropy: 0.0951, Distance: 1.6000  
 Step 02: Loss: 0.0214, Total Entropy: 0.0064, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0063, Distance: 2.9957  
 Step 03: Loss: 0.0213, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 4.1015  
 Step 04: Loss: 0.0251, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.9924  
 Step 05: Loss: 0.0287, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7267  
 Step 06: Loss: 0.0317, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3410  
 Step 07: Loss: 0.0343, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8594  
 Step 08: Loss: 0.0365, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2990  
 Step 09: Loss: 0.0384, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6725  
 Step 10: Loss: 0.0399, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9897  
 Step 11: Loss: 0.0413, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2582  
 Step 12: Loss: 0.0424, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4843  
 Step 13: Loss: 0.0434, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6732  
 Step 14: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8294  
 Step 15: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9564  
 Step 16: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0577  
 Step 17: Loss: 0.0457, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1359  
 Step 18: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1935  
 Step 19: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2327  
 Step 20: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2553  
 Step 21: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2632  
 Step 22: Loss: 0.0463, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 9.2577  
 Step 23: Loss: 0.0462, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2403  
 Step 24: Loss: 0.0461, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.2122  
 Step 25: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1744  
 Step 26: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1279  
 Step 27: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0735  
 Step 28: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0121  
 Step 29: Loss: 0.0447, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9444  
 Step 30: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8709  
 Step 31: Loss: 0.0440, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7923  
 Step 32: Loss: 0.0435, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7090  
 Step 33: Loss: 0.0431, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6216  
 Step 34: Loss: 0.0427, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5304  
 Step 35: Loss: 0.0422, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4357  
 Step 36: Loss: 0.0417, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3381  
 Step 37: Loss: 0.0412, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2376  
 Step 38: Loss: 0.0407, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1348  
 Step 39: Loss: 0.0401, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.0297  
 Step 40: Loss: 0.0396, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9226  
 Step 41: Loss: 0.0391, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8138  
 Step 42: Loss: 0.0385, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7035  
 Step 43: Loss: 0.0380, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5917  
 Step 44: Loss: 0.0374, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.4788  
 Step 45: Loss: 0.0368, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3648  
 Step 46: Loss: 0.0363, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 7.2499  
 Step 47: Loss: 0.0357, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1343  
 Step 48: Loss: 0.0351, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0179  
 Step 49: Loss: 0.0345, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9010  
 Step 50: Loss: 0.0339, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7837  
 Step 51: Loss: 0.0333, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6659  
 Step 52: Loss: 0.0327, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5479  
 Step 53: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4297  
 Step 54: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3113  
 Step 55: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.1928  
 Step 56: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0743  
 Step 57: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9559  
 Step 58: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8375  
 Step 59: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7193  
 Step 60: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.6012  
 Step 61: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4834  
 Step 62: Loss: 0.0268, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.3659  
 Step 63: Loss: 0.0263, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.2487  
 Step 64: Loss: 0.0257, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.1319  
 Step 65: Loss: 0.0251, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.0156  
 Step 66: Loss: 0.0245, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 4.8998  
 Step 67: Loss: 0.0240, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7846  
 Step 68: Loss: 0.0234, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.6699  
 Step 69: Loss: 0.0229, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.5560  
 Step 70: Loss: 0.0223, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 4.4429  
 Step 71: Loss: 0.0218, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.3306  
 Step 72: Loss: 0.0213, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.2193  
 Step 73: Loss: 0.0207, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.1091  
 Step 74: Loss: 0.0202, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.0001  
 Step 75: Loss: 0.0198, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 3.8925  
 Step 76: Loss: 0.0193, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 3.7865  
 Step 77: Loss: 0.0189, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.6825  
 Step 78: Loss: 0.0185, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0006, Distance: 3.5807  
 Step 79: Loss: 0.0182, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.4815  
 Step 80: Loss: 0.0179, Total Entropy: 0.0009, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0009, Distance: 3.3856  
 Step 81: Loss: 0.0176, Total Entropy: 0.0012, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0011, Distance: 3.2934  
 Step 82: Loss: 0.0174, Total Entropy: 0.0014, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0014, Distance: 3.2057  
 Step 83: Loss: 0.0173, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.1233  
 Step 84: Loss: 0.0172, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 3.0472  
 Step 85: Loss: 0.0172, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.9784  
 Step 86: Loss: 0.0172, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0026, Distance: 2.9178  
 Step 87: Loss: 0.0173, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 2.8665  
 Step 88: Loss: 0.0173, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0031, Distance: 2.8253  
 Step 89: Loss: 0.0173, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 2.7947  
 Step 90: Loss: 0.0173, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 2.7750  
 Step 91: Loss: 0.0173, Total Entropy: 0.0034, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0034, Distance: 2.7658  
 Step 92: Loss: 0.0172, Total Entropy: 0.0033, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0033, Distance: 2.7665  
 Step 93: Loss: 0.0171, Total Entropy: 0.0032, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0032, Distance: 2.7758  
 Step 94: Loss: 0.0170, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,



Aleatoric Entropy: 0.0030, Distance: 2.7922  
 Step 95: Loss: 0.0169, Total Entropy: 0.0029, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0028, Distance: 2.8139  
 Step 96: Loss: 0.0169, Total Entropy: 0.0027, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0026, Distance: 2.8390  
 Step 97: Loss: 0.0168, Total Entropy: 0.0025, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0024, Distance: 2.8658  
 Step 98: Loss: 0.0168, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8926  
 Step 99: Loss: 0.0168, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9181  
 Step 100: Loss: 0.0167, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9413  
 Step 101: Loss: 0.0167, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.9615  
 Step 102: Loss: 0.0167, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.9780  
 Step 103: Loss: 0.0167, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.9906  
 Step 104: Loss: 0.0167, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.9994  
 Step 105: Loss: 0.0167, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.0042  
 Step 106: Loss: 0.0167, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.0054  
 Step 107: Loss: 0.0167, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 3.0032  
 Step 108: Loss: 0.0167, Total Entropy: 0.0017, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.9981  
 Step 109: Loss: 0.0167, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0017, Distance: 2.9905  
 Step 110: Loss: 0.0167, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.9809  
 Step 111: Loss: 0.0167, Total Entropy: 0.0018, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0018, Distance: 2.9697  
 Step 112: Loss: 0.0167, Total Entropy: 0.0019, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.9575  
 Step 113: Loss: 0.0167, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0019, Distance: 2.9447  
 Step 114: Loss: 0.0167, Total Entropy: 0.0020, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9319  
 Step 115: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9194  
 Step 116: Loss: 0.0167, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9076  
 Step 117: Loss: 0.0167, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8970  
 Step 118: Loss: 0.0167, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0022, Distance: 2.8877  
 Step 119: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8800  
 Step 120: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8740  
 Step 121: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8697  
 Step 122: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8672  
 Step 123: Loss: 0.0167, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8663  
 Step 124: Loss: 0.0166, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8670  
 Step 125: Loss: 0.0166, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0023, Distance: 2.8689  
 Step 126: Loss: 0.0166, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8719  
 Step 127: Loss: 0.0166, Total Entropy: 0.0023, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8757  
 Step 128: Loss: 0.0166, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8801  
 Step 129: Loss: 0.0166, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8847  
 Step 130: Loss: 0.0166, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0022, Distance: 2.8893  
 Step 131: Loss: 0.0166, Total Entropy: 0.0022, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8938  
 Step 132: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8979  
 Step 133: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9016  
 Step 134: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9046  
 Step 135: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9070  
 Step 136: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9088  
 Step 137: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9098  
 Step 138: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9103  
 Step 139: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9102  
 Step 140: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0020, Distance: 2.9096  
 Step 141: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.9085  
 Step 142: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,





Aleatoric Entropy: 0.0021, Distance: 2.8984  
 Step 191: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8985  
 Step 192: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8985  
 Step 193: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8986  
 Step 194: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8986  
 Step 195: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8986  
 Step 196: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8987  
 Step 197: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8986  
 Step 198: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8986  
 Step 199: Loss: 0.0166, Total Entropy: 0.0021, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0021, Distance: 2.8986  
 Step 00: Loss: 0.7233, Total Entropy: 0.7233, Epistemic Entropy: 0.1252,  
 Aleatoric Entropy: 0.5982, Distance: 0.0000  
 Step 01: Loss: 0.2072, Total Entropy: 0.1992, Epistemic Entropy: 0.0207,  
 Aleatoric Entropy: 0.1785, Distance: 1.6000  
 Step 02: Loss: 0.0299, Total Entropy: 0.0156, Epistemic Entropy: 0.0009,  
 Aleatoric Entropy: 0.0147, Distance: 2.8770  
 Step 03: Loss: 0.0216, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.9694  
 Step 04: Loss: 0.0246, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.8611  
 Step 05: Loss: 0.0281, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.5987  
 Step 06: Loss: 0.0311, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2169  
 Step 07: Loss: 0.0337, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.7393  
 Step 08: Loss: 0.0359, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1832  
 Step 09: Loss: 0.0378, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5612  
 Step 10: Loss: 0.0394, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8830  
 Step 11: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1562  
 Step 12: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3870  
 Step 13: Loss: 0.0429, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5805  
 Step 14: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.7411  
 Step 15: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8723  
 Step 16: Loss: 0.0449, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9774  
 Step 17: Loss: 0.0453, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0592  
 Step 18: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1201  
 Step 19: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1623  
 Step 20: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1878  
 Step 21: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1982  
 Step 22: Loss: 0.0460, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1950  
 Step 23: Loss: 0.0459, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1795  
 Step 24: Loss: 0.0458, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1530  
 Step 25: Loss: 0.0456, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.1164  
 Step 26: Loss: 0.0454, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0707  
 Step 27: Loss: 0.0451, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 9.0168  
 Step 28: Loss: 0.0448, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.9554  
 Step 29: Loss: 0.0444, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8873  
 Step 30: Loss: 0.0441, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.8132  
 Step 31: Loss: 0.0437, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.7336  
 Step 32: Loss: 0.0432, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.6491  
 Step 33: Loss: 0.0428, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.5602  
 Step 34: Loss: 0.0423, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.4674  
 Step 35: Loss: 0.0419, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.3710  
 Step 36: Loss: 0.0414, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.2715  
 Step 37: Loss: 0.0408, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 8.1692  
 Step 38: Loss: 0.0403, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0000, Distance: 8.0643  
 Step 39: Loss: 0.0398, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.9572  
 Step 40: Loss: 0.0392, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.8480  
 Step 41: Loss: 0.0387, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.7371  
 Step 42: Loss: 0.0381, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.6245  
 Step 43: Loss: 0.0376, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.5105  
 Step 44: Loss: 0.0370, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.3953  
 Step 45: Loss: 0.0364, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.2790  
 Step 46: Loss: 0.0358, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.1617  
 Step 47: Loss: 0.0352, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 7.0436  
 Step 48: Loss: 0.0346, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.9248  
 Step 49: Loss: 0.0340, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.8054  
 Step 50: Loss: 0.0334, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.6856  
 Step 51: Loss: 0.0328, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.5653  
 Step 52: Loss: 0.0322, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.4448  
 Step 53: Loss: 0.0316, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.3240  
 Step 54: Loss: 0.0310, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.2030  
 Step 55: Loss: 0.0304, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 6.0820  
 Step 56: Loss: 0.0298, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.9610  
 Step 57: Loss: 0.0292, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.8401  
 Step 58: Loss: 0.0286, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.7193  
 Step 59: Loss: 0.0280, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.5987  
 Step 60: Loss: 0.0274, Total Entropy: 0.0000, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0000, Distance: 5.4784  
 Step 61: Loss: 0.0269, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.3585  
 Step 62: Loss: 0.0263, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,

Aleatoric Entropy: 0.0001, Distance: 5.2389  
 Step 63: Loss: 0.0257, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.1199  
 Step 64: Loss: 0.0251, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 5.0014  
 Step 65: Loss: 0.0245, Total Entropy: 0.0001, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.8835  
 Step 66: Loss: 0.0240, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0001, Distance: 4.7664  
 Step 67: Loss: 0.0234, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.6501  
 Step 68: Loss: 0.0229, Total Entropy: 0.0002, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0002, Distance: 4.5348  
 Step 69: Loss: 0.0224, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.4205  
 Step 70: Loss: 0.0219, Total Entropy: 0.0003, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0003, Distance: 4.3075  
 Step 71: Loss: 0.0214, Total Entropy: 0.0004, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0004, Distance: 4.1960  
 Step 72: Loss: 0.0209, Total Entropy: 0.0005, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 4.0861  
 Step 73: Loss: 0.0205, Total Entropy: 0.0006, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0005, Distance: 3.9781  
 Step 74: Loss: 0.0201, Total Entropy: 0.0007, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0007, Distance: 3.8724  
 Step 75: Loss: 0.0197, Total Entropy: 0.0008, Epistemic Entropy: 0.0000,  
 Aleatoric Entropy: 0.0008, Distance: 3.7693  
 Step 76: Loss: 0.0194, Total Entropy: 0.0010, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0010, Distance: 3.6694  
 Step 77: Loss: 0.0191, Total Entropy: 0.0012, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0011, Distance: 3.5733  
 Step 78: Loss: 0.0188, Total Entropy: 0.0014, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0014, Distance: 3.4815  
 Step 79: Loss: 0.0187, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0016, Distance: 3.3951  
 Step 80: Loss: 0.0185, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.3147  
 Step 81: Loss: 0.0185, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.2415  
 Step 82: Loss: 0.0185, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0024, Distance: 3.1764  
 Step 83: Loss: 0.0185, Total Entropy: 0.0029, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.1203  
 Step 84: Loss: 0.0185, Total Entropy: 0.0031, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.0742  
 Step 85: Loss: 0.0185, Total Entropy: 0.0033, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.0387  
 Step 86: Loss: 0.0185, Total Entropy: 0.0035, Epistemic Entropy: 0.0002,



Aleatoric Entropy: 0.0033, Distance: 3.0142  
 Step 87: Loss: 0.0185, Total Entropy: 0.0035, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0033, Distance: 3.0007  
 Step 88: Loss: 0.0185, Total Entropy: 0.0035, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0033, Distance: 2.9976  
 Step 89: Loss: 0.0184, Total Entropy: 0.0034, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0032, Distance: 3.0040  
 Step 90: Loss: 0.0183, Total Entropy: 0.0032, Epistemic Entropy: 0.0002,  
 Aleatoric Entropy: 0.0030, Distance: 3.0184  
 Step 91: Loss: 0.0182, Total Entropy: 0.0030, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0029, Distance: 3.0392  
 Step 92: Loss: 0.0181, Total Entropy: 0.0028, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0027, Distance: 3.0645  
 Step 93: Loss: 0.0181, Total Entropy: 0.0026, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0025, Distance: 3.0922  
 Step 94: Loss: 0.0180, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1208  
 Step 95: Loss: 0.0180, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1486  
 Step 96: Loss: 0.0180, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1744  
 Step 97: Loss: 0.0180, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1971  
 Step 98: Loss: 0.0180, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.2162  
 Step 99: Loss: 0.0180, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2312  
 Step 100: Loss: 0.0180, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2419  
 Step 101: Loss: 0.0180, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2483  
 Step 102: Loss: 0.0180, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2507  
 Step 103: Loss: 0.0180, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2492  
 Step 104: Loss: 0.0180, Total Entropy: 0.0017, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2442  
 Step 105: Loss: 0.0180, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2364  
 Step 106: Loss: 0.0179, Total Entropy: 0.0018, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0017, Distance: 3.2260  
 Step 107: Loss: 0.0179, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.2139  
 Step 108: Loss: 0.0179, Total Entropy: 0.0019, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0018, Distance: 3.2004  
 Step 109: Loss: 0.0179, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0019, Distance: 3.1861  
 Step 110: Loss: 0.0179, Total Entropy: 0.0020, Epistemic Entropy: 0.0001,

Aleatoric Entropy: 0.0019, Distance: 3.1717  
 Step 111: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1575  
 Step 112: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1441  
 Step 113: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1320  
 Step 114: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1213  
 Step 115: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1125  
 Step 116: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1056  
 Step 117: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1008  
 Step 118: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0980  
 Step 119: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0971  
 Step 120: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.0981  
 Step 121: Loss: 0.0179, Total Entropy: 0.0024, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0023, Distance: 3.1005  
 Step 122: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1043  
 Step 123: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1090  
 Step 124: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1143  
 Step 125: Loss: 0.0179, Total Entropy: 0.0023, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0022, Distance: 3.1199  
 Step 126: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1256  
 Step 127: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1311  
 Step 128: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1360  
 Step 129: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1404  
 Step 130: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1440  
 Step 131: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1468  
 Step 132: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1487  
 Step 133: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0020, Distance: 3.1498  
 Step 134: Loss: 0.0179, Total Entropy: 0.0021, Epistemic Entropy: 0.0001,

[illegible]



Aleatoric Entropy: 0.0021, Distance: 3.1337  
 Step 183: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1339  
 Step 184: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1341  
 Step 185: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1343  
 Step 186: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1345  
 Step 187: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1346  
 Step 188: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1347  
 Step 189: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1348  
 Step 190: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1348  
 Step 191: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1348  
 Step 192: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1348  
 Step 193: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1348  
 Step 194: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1347  
 Step 195: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1346  
 Step 196: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1345  
 Step 197: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1344  
 Step 198: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1343  
 Step 199: Loss: 0.0179, Total Entropy: 0.0022, Epistemic Entropy: 0.0001,  
 Aleatoric Entropy: 0.0021, Distance: 3.1343

Results over 50 most uncertain images:

Average latent entropy reduction: 0.918

Average reconstruction entropy reduction: 0.022

Average distance between original and explained latents: 3.117

Test on the Deterministic last layer

```

[30]: # 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
    backbone.eval()
    with torch.no_grad():
        z0, _ = backbone(uncertain_image)

    # Initialize CLUE
    clue = new_CLUE.NewCLUE(
        classifier=backbone.classifier, # Just use the classifier head
        z0=z0,
        uncertainty_weight=1.0,
        distance_weight=0.005,
        lr=0.1,
        device=cfg.device,
        bayesian=False, # Non-Bayesian mode
        verbose=False
    )

    # Optimize to find explanation
    z_explained = clue.optimize(steps=400)

    # 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 from classifier head
        original_logits = backbone.classifier(z0)
        explained_logits = backbone.classifier(z_explained)

        # Convert to probabilities
        original_probs = torch.nn.functional.softmax(original_logits, dim=1)
        explained_probs = torch.nn.functional.softmax(explained_logits, dim=1)

```

```

# Get predictions from full classifier workflow on reconstructions
_, original_recon_logits = backbone(original_recon)
_, explained_recon_logits = backbone(clue_recon)

original_recon_probs = torch.nn.functional.
↳softmax(original_recon_logits, dim=1)
explained_recon_probs = torch.nn.functional.
↳softmax(explained_recon_logits, dim=1)

# Calculate entropies for latent predictions
original_entropy_latent = -(original_probs * torch.log(original_probs +
↳1e-10)).sum(dim=1)
explained_entropy_latent = -(explained_probs * torch.
↳log(explained_probs + 1e-10)).sum(dim=1)

# Calculate entropies for reconstruction predictions
original_entropy_recon = -(original_recon_probs * torch.
↳log(original_recon_probs + 1e-10)).sum(dim=1)
explained_entropy_recon = -(explained_recon_probs * torch.
↳log(explained_recon_probs + 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}")

```

Results over 50 most uncertain images:  
Average latent entropy reduction: 0.477  
Average reconstruction entropy reduction: 0.022

Average distance between original and explained latents: 3.621

Test on the VI BLL

```
[31]: # 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_vi.eval()
    with torch.no_grad():
        z0 = bll_vi.extract_features(uncertain_image)

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

    # 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_vi.sample_predict_z(z0)
explained_probs_latent = bll_vi.sample_predict_z(z_explained)

# Get predictions from full classifier workflow on reconstructions
original_probs_recon = bll_vi.sample_predict(original_recon)
explained_probs_recon = bll_vi.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}")
```

Results over 50 most uncertain images:

Average latent entropy reduction: 1.083

Average reconstruction entropy reduction: 0.623

Average distance between original and explained latents: 12.855

### 1.5.3 Visualise the results between all models

```
[32]: # Get indices of 2 most uncertain images
n_examples = 10
uncertain_indices = sorted_data_indices[9:9+n_examples]

# Set up the plot - now 5 rows
fig, axes = plt.subplots(5, n_examples, figsize=(20, 15)) # Doubled the width ↪
↪from 10 to 20
plt.subplots_adjust(wspace=0.3, hspace=0.8) # Increased vertical spacing

# Add horizontal y-axis labels with larger font - adjusted y-coordinates
fig.text(0.02, 0.55, 'MCMC CLUE', ha='left', va='center', fontsize=12, ↪
↪fontweight='bold')
fig.text(0.02, 0.35, 'Det CLUE', ha='left', va='center', fontsize=12, ↪
↪fontweight='bold')
fig.text(0.02, 0.15, 'VI CLUE', ha='left', va='center', fontsize=12, ↪
↪fontweight='bold')

for i, idx in enumerate(uncertain_indices):
    # Get image
    uncertain_image, _ = testset[idx]
    uncertain_image = uncertain_image.to(cfg.device).unsqueeze(0)

    # Get original latent representations and entropies
    with torch.no_grad():
        # Get original features and entropies
        z0_mcmc = bll.extract_features(uncertain_image)
        mcmc_orig_probs = bll.sample_predict_z(z0_mcmc).mean(0)
        mcmc_orig_entropy = -(mcmc_orig_probs * torch.log(mcmc_orig_probs + ↪
↪1e-10)).sum(1)

        z0_det, _ = backbone(uncertain_image)
        det_orig_logits = backbone.classifier(z0_det)
        det_orig_probs = torch.nn.functional.softmax(det_orig_logits, dim=1)
        det_orig_entropy = -(det_orig_probs * torch.log(det_orig_probs + ↪
↪1e-10)).sum(1)
```

```

        z0_vi = bll_vi.extract_features(uncertain_image)
        vi_orig_probs = bll_vi.sample_predict_z(z0_vi).mean(0)
        vi_orig_entropy = -(vi_orig_probs * torch.log(vi_orig_probs + 1e-10)).
↪sum(1)

        # Original image with all entropies
        axes[0,i].imshow(uncertain_image.squeeze().cpu(), cmap='gray')
        axes[0,i].axis('off')
        axes[0,i].set_title(f'Original\nMCMC: {mcmc_orig_entropy[0]:.3f}\nDet:
↪{det_orig_entropy[0]:.3f}\nVI: {vi_orig_entropy[0]:.3f}')

        # Original reconstruction and its entropies
        with torch.no_grad():
            # Get reconstruction
            recon = decoder(z0_mcmc) # Can use any of the z0s since they should
↪give similar reconstructions

            # Get reconstruction entropies for each model
            mcmc_recon_probs = bll.sample_predict(recon).mean(0)
            mcmc_recon_entropy = -(mcmc_recon_probs * torch.log(mcmc_recon_probs +
↪1e-10)).sum(1)

            _, det_recon_logits = backbone(recon)
            det_recon_probs = torch.nn.functional.softmax(det_recon_logits, dim=1)
            det_recon_entropy = -(det_recon_probs * torch.log(det_recon_probs +
↪1e-10)).sum(1)

            vi_recon_probs = bll_vi.sample_predict(recon).mean(0)
            vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
↪1e-10)).sum(1)

        # Plot original reconstruction
        axes[1,i].imshow(recon[0,0].cpu().detach(), cmap='gray')
        axes[1,i].axis('off')
        axes[1,i].set_title(f'Original Recon\nMCMC: {mcmc_recon_entropy[0]:.
↪3f}\nDet: {det_recon_entropy[0]:.3f}\nVI: {vi_recon_entropy[0]:.3f}')

        # Generate counterfactuals
        clue_mcmc = new_CLUE.NewCLUE(
            classifier=bll,
            z0=z0_mcmc,
            uncertainty_weight=1.0,
            distance_weight=0.005,
            lr=0.1,
            device=cfg.device,
            bayesian=True,

```

```

        verbose=False
    )
    z_explained_mcmc = clue_mcmc.optimize(steps=200)

    clue_det = new_CLUE.NewCLUE(
        classifier=backbone.classifier,
        z0=z0_det,
        uncertainty_weight=1.0,
        distance_weight=0.005,
        lr=0.1,
        device=cfg.device,
        bayesian=False,
        verbose=False
    )
    z_explained_det = clue_det.optimize(steps=200)

    clue_vi = new_CLUE.NewCLUE(
        classifier=bll_vi,
        z0=z0_vi,
        uncertainty_weight=1.0,
        distance_weight=0.005,
        lr=0.1,
        device=cfg.device,
        bayesian=True,
        verbose=False
    )
    z_explained_vi = clue_vi.optimize(steps=200)

    # Generate counterfactual reconstructions and compute entropies
    with torch.no_grad():
        # MCMC counterfactual
        mcmc_recon = decoder(z_explained_mcmc)
        mcmc_probs = bll.sample_predict_z(z_explained_mcmc).mean(0)
        mcmc_entropy = -(mcmc_probs * torch.log(mcmc_probs + 1e-10)).sum(1)
        mcmc_recon_probs = bll.sample_predict(mcmc_recon).mean(0)
        mcmc_recon_entropy = -(mcmc_recon_probs * torch.log(mcmc_recon_probs +
↪1e-10)).sum(1)

        # Det counterfactual
        det_recon = decoder(z_explained_det)
        det_logits = backbone.classifier(z_explained_det)
        det_probs = torch.nn.functional.softmax(det_logits, dim=1)
        det_entropy = -(det_probs * torch.log(det_probs + 1e-10)).sum(1)
        _, det_recon_logits = backbone(det_recon)
        det_recon_probs = torch.nn.functional.softmax(det_recon_logits, dim=1)
        det_recon_entropy = -(det_recon_probs * torch.log(det_recon_probs +
↪1e-10)).sum(1)

```

```

    # VI counterfactual
    vi_recon = decoder(z_explained_vi)
    vi_probs = bll_vi.sample_predict_z(z_explained_vi).mean(0)
    vi_entropy = -(vi_probs * torch.log(vi_probs + 1e-10)).sum(1)
    vi_recon_probs = bll_vi.sample_predict(vi_recon).mean(0)
    vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
↪1e-10)).sum(1)

    # Plot counterfactuals (without model names in titles)
    axes[2,i].imshow(mcmc_recon[0,0].cpu().detach(), cmap='gray')
    axes[2,i].axis('off')
    axes[2,i].set_title(f'Latent: {mcmc_entropy[0]:.3f}\nRecon:
↪{mcmc_recon_entropy[0]:.3f}')

    axes[3,i].imshow(det_recon[0,0].cpu().detach(), cmap='gray')
    axes[3,i].axis('off')
    axes[3,i].set_title(f'Latent: {det_entropy[0]:.3f}\nRecon:
↪{det_recon_entropy[0]:.3f}')

    axes[4,i].imshow(vi_recon[0,0].cpu().detach(), cmap='gray')
    axes[4,i].axis('off')
    axes[4,i].set_title(f'Latent: {vi_entropy[0]:.3f}\nRecon:
↪{vi_recon_entropy[0]:.3f}')

plt.show()

```



An alternative plot of the data

```
[42]: # Get indices of 2 most uncertain images
n_examples = 10
uncertain_indices = sorted_data_indices[20:20+n_examples]

# Set up the plot - now 6 rows (removed MCMC, added two difference rows)
fig, axes = plt.subplots(6, n_examples, figsize=(20, 18)) # Increased height,
# to accommodate new row
plt.subplots_adjust(wspace=0.3, hspace=0.8) # Increased vertical spacing

# Add horizontal y-axis labels with larger font - spread evenly across plot,
# height
fig.text(0.02, 0.85, 'Original', ha='left', va='center', fontsize=12,
# fontweight='bold')
fig.text(0.02, 0.70, 'Original Recon', ha='left', va='center', fontsize=12,
# fontweight='bold')
fig.text(0.02, 0.55, 'Det CLUE', ha='left', va='center', fontsize=12,
# fontweight='bold')
fig.text(0.02, 0.40, 'Det Difference', ha='left', va='center', fontsize=12,
# fontweight='bold')
```

```

fig.text(0.02, 0.25, 'VI CLUE', ha='left', va='center', fontsize=12,
        ↪fontweight='bold')
fig.text(0.02, 0.10, 'VI Difference', ha='left', va='center', fontsize=12,
        ↪fontweight='bold')

for i, idx in enumerate(uncertain_indices):
    # Get image
    uncertain_image, _ = testset[idx]
    uncertain_image = uncertain_image.to(cfg.device).unsqueeze(0)

    # Get original latent representations and entropies
    with torch.no_grad():
        # Get original features and entropies
        z0_det, _ = backbone(uncertain_image)
        det_orig_logits = backbone.classifier(z0_det)
        det_orig_probs = torch.nn.functional.softmax(det_orig_logits, dim=1)
        det_orig_entropy = -(det_orig_probs * torch.log(det_orig_probs +
        ↪1e-10)).sum(1)

        z0_vi = bll_vi.extract_features(uncertain_image)
        vi_orig_probs = bll_vi.sample_predict_z(z0_vi).mean(0)
        vi_orig_entropy = -(vi_orig_probs * torch.log(vi_orig_probs + 1e-10)).
        ↪sum(1)

        # Original image with all entropies
        axes[0,i].imshow(uncertain_image.squeeze().cpu(), cmap='gray')
        axes[0,i].axis('off')
        axes[0,i].set_title(f'Original\nDet: {det_orig_entropy[0]:.3f}\nVI:
        ↪{vi_orig_entropy[0]:.3f}')

        # Original reconstruction and its entropies
        with torch.no_grad():
            # Get reconstruction
            recon = decoder(z0_det)

            # Get reconstruction entropies for each model
            _, det_recon_logits = backbone(recon)
            det_recon_probs = torch.nn.functional.softmax(det_recon_logits, dim=1)
            det_recon_entropy = -(det_recon_probs * torch.log(det_recon_probs +
            ↪1e-10)).sum(1)

            vi_recon_probs = bll_vi.sample_predict(recon).mean(0)
            vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
            ↪1e-10)).sum(1)

        # Plot original reconstruction

```

```

axes[1,i].imshow(recon[0,0].cpu().detach(), cmap='gray')
axes[1,i].axis('off')
axes[1,i].set_title(f'Original Recon\nDet: {det_recon_entropy[0]:.3f}\nVI: {vi_recon_entropy[0]:.3f}')

# Generate counterfactuals
clue_det = new_CLUE.NewCLUE(
    classifier=backbone.classifier,
    z0=z0_det,
    uncertainty_weight=1.0,
    distance_weight=0.005,
    lr=0.1,
    device=cfg.device,
    bayesian=False,
    verbose=False
)
z_explained_det = clue_det.optimize(steps=200)

clue_vi = new_CLUE.NewCLUE(
    classifier=bll_vi,
    z0=z0_vi,
    uncertainty_weight=1.0,
    distance_weight=0.005,
    lr=0.1,
    device=cfg.device,
    bayesian=True,
    verbose=False
)
z_explained_vi = clue_vi.optimize(steps=200)

# Generate counterfactual reconstructions and compute entropies
with torch.no_grad():
    # Det counterfactual
    det_recon = decoder(z_explained_det)
    det_logits = backbone.classifier(z_explained_det)
    det_probs = torch.nn.functional.softmax(det_logits, dim=1)
    det_entropy = -(det_probs * torch.log(det_probs + 1e-10)).sum(1)
    _, det_recon_logits = backbone(det_recon)
    det_recon_probs = torch.nn.functional.softmax(det_recon_logits, dim=1)
    det_recon_entropy = -(det_recon_probs * torch.log(det_recon_probs + 1e-10)).sum(1)

    # VI counterfactual
    vi_recon = decoder(z_explained_vi)
    vi_probs = bll_vi.sample_predict_z(z_explained_vi).mean(0)
    vi_entropy = -(vi_probs * torch.log(vi_probs + 1e-10)).sum(1)
    vi_recon_probs = bll_vi.sample_predict(vi_recon).mean(0)

```



```

vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
↪1e-10)).sum(1)

# Plot deterministic CLUE
axes[2,i].imshow(det_recon[0,0].cpu().detach(), cmap='gray')
axes[2,i].axis('off')
axes[2,i].set_title(f'Latent: {det_entropy[0]:.3f}\nRecon:
↪{det_recon_entropy[0]:.3f}')

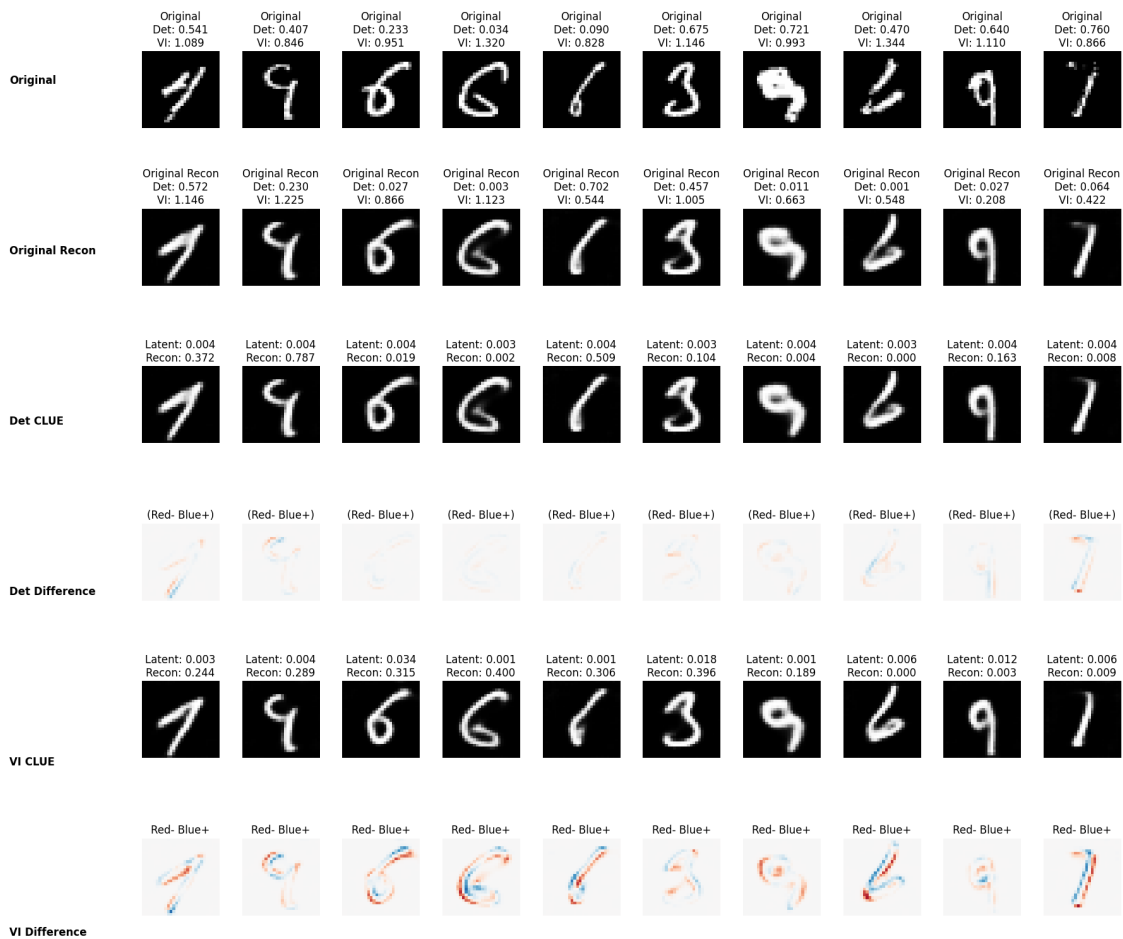
# Plot difference between Det CLUE and original reconstruction
det_diff = det_recon[0,0].cpu().detach() - recon[0,0].cpu().detach()
axes[3,i].imshow(det_diff, cmap='RdBu', vmin=-1, vmax=1)
axes[3,i].axis('off')
axes[3,i].set_title('(Red- Blue+)')

# Plot VI CLUE
axes[4,i].imshow(vi_recon[0,0].cpu().detach(), cmap='gray')
axes[4,i].axis('off')
axes[4,i].set_title(f'Latent: {vi_entropy[0]:.3f}\nRecon:
↪{vi_recon_entropy[0]:.3f}')

# Plot difference between VI CLUE and original reconstruction
vi_diff = vi_recon[0,0].cpu().detach() - recon[0,0].cpu().detach()
axes[5,i].imshow(vi_diff, cmap='RdBu', vmin=-1, vmax=1)
axes[5,i].axis('off')
axes[5,i].set_title('(Red- Blue+)')

plt.show()

```



```
[45]: # Get indices of 2 most uncertain images
n_examples = 10
uncertain_indices = sorted_data_indices[20:20+n_examples]

# Set up the plot - now 6 rows
fig, axes = plt.subplots(6, n_examples, figsize=(20, 18)) # Increased height
# for extra row
plt.subplots_adjust(wspace=0.3, hspace=0.8)

# Add horizontal y-axis labels with larger font
fig.text(0.02, 0.85, 'Original', ha='left', va='center', fontsize=12,
# fontweight='bold')
fig.text(0.02, 0.70, 'Original Recon', ha='left', va='center', fontsize=12,
# fontweight='bold')
fig.text(0.02, 0.55, 'VI CLUE', ha='left', va='center', fontsize=12,
# fontweight='bold')
```

```

fig.text(0.02, 0.40, 'Difference Map', ha='left', va='center', fontsize=12,
        ↪fontweight='bold')
fig.text(0.02, 0.25, 'Overlaid on Original', ha='left', va='center',
        ↪fontsize=12, fontweight='bold')
fig.text(0.02, 0.10, 'Overlaid on Recon', ha='left', va='center', fontsize=12,
        ↪fontweight='bold')

for i, idx in enumerate(uncertain_indices):
    # Get image
    uncertain_image, _ = testset[idx]
    uncertain_image = uncertain_image.to(cfg.device).unsqueeze(0)

    # Get original latent representations and entropies
    with torch.no_grad():
        z0_vi = bll_vi.extract_features(uncertain_image)
        vi_orig_probs = bll_vi.sample_predict_z(z0_vi).mean(0)
        vi_orig_entropy = -(vi_orig_probs * torch.log(vi_orig_probs + 1e-10)).
        ↪sum(1)

    # Original image
    axes[0,i].imshow(uncertain_image.squeeze().cpu(), cmap='gray')
    axes[0,i].axis('off')
    axes[0,i].set_title(f'Original\nVI: {vi_orig_entropy[0]:.3f}')

    # Original reconstruction and its entropies
    with torch.no_grad():
        # Get reconstruction
        recon = decoder(z0_vi)

        # Get reconstruction entropies
        vi_recon_probs = bll_vi.sample_predict(recon).mean(0)
        vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
        ↪1e-10)).sum(1)

    # Plot original reconstruction
    axes[1,i].imshow(recon[0,0].cpu().detach(), cmap='gray')
    axes[1,i].axis('off')
    axes[1,i].set_title(f'Original Recon\nVI: {vi_recon_entropy[0]:.3f}')

    # Generate VI counterfactual
    clue_vi = new_CLUE.NewCLUE(
        classifier=bll_vi,
        z0=z0_vi,
        uncertainty_weight=1.0,
        distance_weight=0.005,
        lr=0.1,
        device=cfg.device,

```

```

        bayesian=True,
        verbose=False
    )
    z_explained_vi = clue_vi.optimize(steps=200)

    # Generate counterfactual reconstructions and compute entropies
    with torch.no_grad():
        vi_recon = decoder(z_explained_vi)
        vi_probs = bll_vi.sample_predict_z(z_explained_vi).mean(0)
        vi_entropy = -(vi_probs * torch.log(vi_probs + 1e-10)).sum(1)
        vi_recon_probs = bll_vi.sample_predict(vi_recon).mean(0)
        vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
↪1e-10)).sum(1)

    # Plot VI CLUE
    axes[2,i].imshow(vi_recon[0,0].cpu().detach(), cmap='gray')
    axes[2,i].axis('off')
    axes[2,i].set_title(f'Latent: {vi_entropy[0]:.3f}\nRecon:
↪{vi_recon_entropy[0]:.3f}')

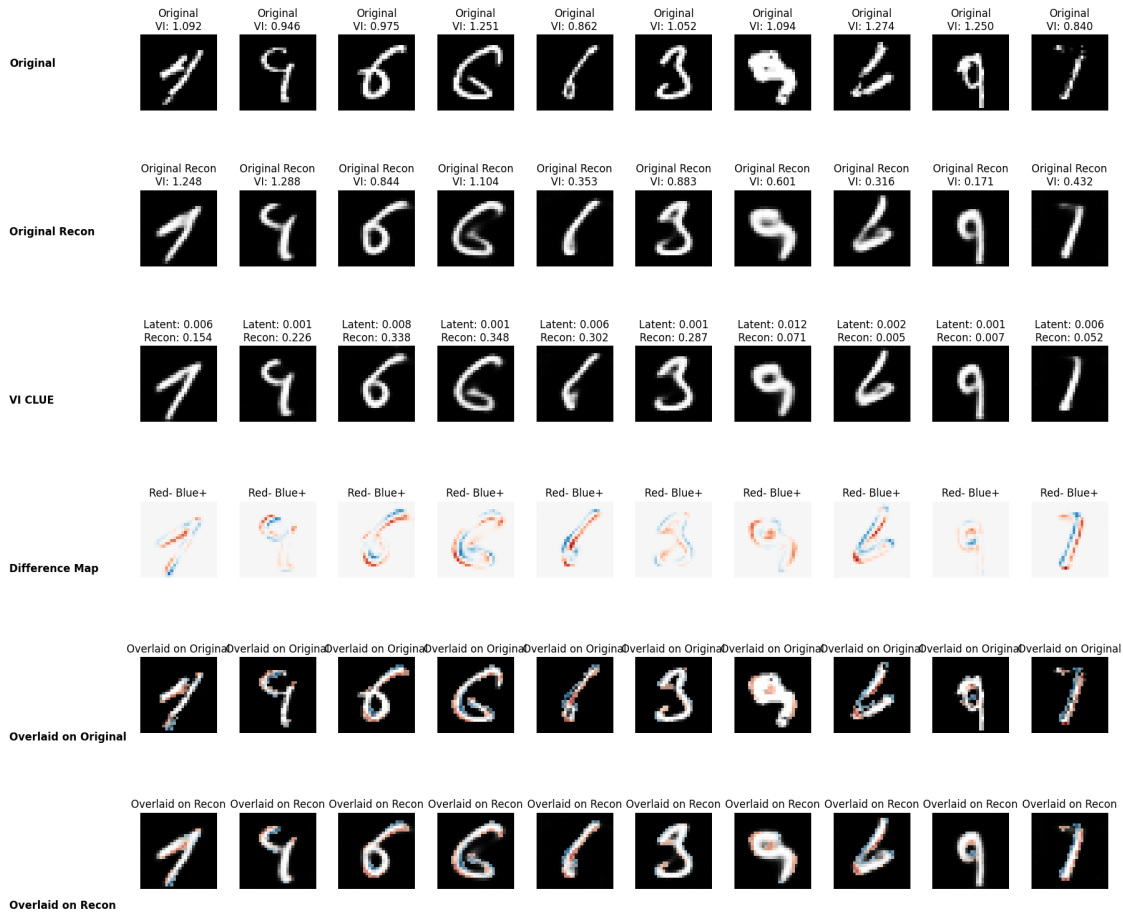
    # Plot difference between VI CLUE and original reconstruction
    vi_diff = vi_recon[0,0].cpu().detach() - recon[0,0].cpu().detach()
    axes[3,i].imshow(vi_diff, cmap='RdBu', vmin=-1, vmax=1)
    axes[3,i].axis('off')
    axes[3,i].set_title('Red- Blue+')

    # Plot overlaid differences on original image
    orig_img = uncertain_image.squeeze().cpu()
    diff_map = vi_diff.abs() > 0.2 # Threshold for significant differences
    plt.imshow(orig_img, cmap='gray')
    axes[4,i].imshow(orig_img, cmap='gray')
    axes[4,i].imshow(np.ma.masked_where(~diff_map, vi_diff), cmap='RdBu',
↪vmin=-1, vmax=1, alpha=0.7)
    axes[4,i].axis('off')

    # Plot overlaid differences on reconstruction
    recon_img = recon[0,0].cpu().detach()
    axes[5,i].imshow(recon_img, cmap='gray')
    axes[5,i].imshow(np.ma.masked_where(~diff_map, vi_diff), cmap='RdBu',
↪vmin=-1, vmax=1, alpha=0.7)
    axes[5,i].axis('off')

plt.show()

```



```
[48]: # Get indices of 2 most uncertain images
n_examples = 10
uncertain_indices = sorted_data_indices[20:20+n_examples]

# Set up the plot - now 6 rows
fig, axes = plt.subplots(6, n_examples, figsize=(20, 18))
plt.subplots_adjust(wspace=0.3, hspace=0.8)

# Add horizontal y-axis labels with larger font
fig.text(0.02, 0.85, 'Original', ha='left', va='center', fontsize=12,
        fontweight='bold')
fig.text(0.02, 0.70, 'Original Recon', ha='left', va='center', fontsize=12,
        fontweight='bold')
fig.text(0.02, 0.55, 'VI CLUE', ha='left', va='center', fontsize=12,
        fontweight='bold')
fig.text(0.02, 0.40, 'Difference Map', ha='left', va='center', fontsize=12,
        fontweight='bold')
```

```

fig.text(0.02, 0.25, 'Differences Added to Original', ha='left', va='center',
        ↪fontsize=12, fontweight='bold')
fig.text(0.02, 0.10, 'Differences Added to Recon', ha='left', va='center',
        ↪fontsize=12, fontweight='bold')

for i, idx in enumerate(uncertain_indices):
    # Get image
    uncertain_image, _ = testset[idx]
    uncertain_image = uncertain_image.to(cfg.device).unsqueeze(0)

    # Get original latent representations and entropies
    with torch.no_grad():
        z0_vi = bll_vi.extract_features(uncertain_image)
        vi_orig_probs = bll_vi.sample_predict_z(z0_vi).mean(0)
        vi_orig_entropy = -(vi_orig_probs * torch.log(vi_orig_probs + 1e-10)).
        ↪sum(1)

    # Original image
    axes[0,i].imshow(uncertain_image.squeeze().cpu(), cmap='gray')
    axes[0,i].axis('off')
    axes[0,i].set_title(f'Original\nVI: {vi_orig_entropy[0]:.3f}')

    # Original reconstruction and its entropies
    with torch.no_grad():
        # Get reconstruction
        recon = decoder(z0_vi)

        # Get reconstruction entropies
        vi_recon_probs = bll_vi.sample_predict(recon).mean(0)
        vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
        ↪1e-10)).sum(1)

    # Plot original reconstruction
    axes[1,i].imshow(recon[0,0].cpu().detach(), cmap='gray')
    axes[1,i].axis('off')
    axes[1,i].set_title(f'Original Recon\nVI: {vi_recon_entropy[0]:.3f}')

    # Generate VI counterfactual
    clue_vi = new_CLUE.NewCLUE(
        classifier=bll_vi,
        z0=z0_vi,
        uncertainty_weight=1.0,
        distance_weight=0.005,
        lr=0.1,
        device=cfg.device,
        bayesian=True,
        verbose=False

```

```

)
z_explained_vi = clue_vi.optimize(steps=200)

# Generate counterfactual reconstructions and compute entropies
with torch.no_grad():
    vi_recon = decoder(z_explained_vi)
    vi_probs = bll_vi.sample_predict_z(z_explained_vi).mean(0)
    vi_entropy = -(vi_probs * torch.log(vi_probs + 1e-10)).sum(1)
    vi_recon_probs = bll_vi.sample_predict(vi_recon).mean(0)
    vi_recon_entropy = -(vi_recon_probs * torch.log(vi_recon_probs +
↪1e-10)).sum(1)

# Plot VI CLUE
axes[2,i].imshow(vi_recon[0,0].cpu().detach(), cmap='gray')
axes[2,i].axis('off')
axes[2,i].set_title(f'Latent: {vi_entropy[0]:.3f}\nRecon:
↪{vi_recon_entropy[0]:.3f}')

# Plot difference between VI CLUE and original reconstruction
vi_diff = vi_recon[0,0].cpu().detach() - recon[0,0].cpu().detach()
axes[3,i].imshow(vi_diff, cmap='RdBu', vmin=-1, vmax=1)
axes[3,i].axis('off')
axes[3,i].set_title('Red- Blue+')

# Add differences to original image
orig_img = uncertain_image.squeeze().cpu()
diff_map = vi_diff.abs() > 0.2 # Threshold for significant differences
orig_plus_diff = orig_img.clone()
orig_plus_diff[diff_map] = torch.clamp(orig_img[diff_map] +
↪vi_diff[diff_map], 0, 1) # Add differences and clamp to [0,1]

# Get entropy for original plus diff
with torch.no_grad():
    orig_plus_diff_input = orig_plus_diff.unsqueeze(0).unsqueeze(0).to(cfg.
↪device)
    orig_plus_diff_probs = bll_vi.sample_predict(orig_plus_diff_input).
↪mean(0)
    orig_plus_diff_entropy = -(orig_plus_diff_probs * torch.
↪log(orig_plus_diff_probs + 1e-10)).sum(1)

    axes[4,i].imshow(orig_plus_diff, cmap='gray')
    axes[4,i].axis('off')
    axes[4,i].set_title(f'Added to Original\nVI: {orig_plus_diff_entropy[0]:.
↪3f}')

# Add differences to reconstruction

```

```

recon_img = recon[0,0].cpu().detach()
recon_plus_diff = recon_img.clone()
recon_plus_diff[diff_map] = torch.clamp(recon_img[diff_map] +
↪vi_diff[diff_map], 0, 1) # Add differences and clamp to [0,1]

# Get entropy for recon plus diff
with torch.no_grad():
    recon_plus_diff_input = recon_plus_diff.unsqueeze(0).unsqueeze(0).
↪to(cfg.device)
    recon_plus_diff_probs = bll_vi.sample_predict(recon_plus_diff_input).
↪mean(0)
    recon_plus_diff_entropy = -(recon_plus_diff_probs * torch.
↪log(recon_plus_diff_probs + 1e-10)).sum(1)

axes[5,i].imshow(recon_plus_diff, cmap='gray')
axes[5,i].axis('off')
axes[5,i].set_title(f'Added to Recon\nVI: {recon_plus_diff_entropy[0]:.3f}')

plt.show()

```

