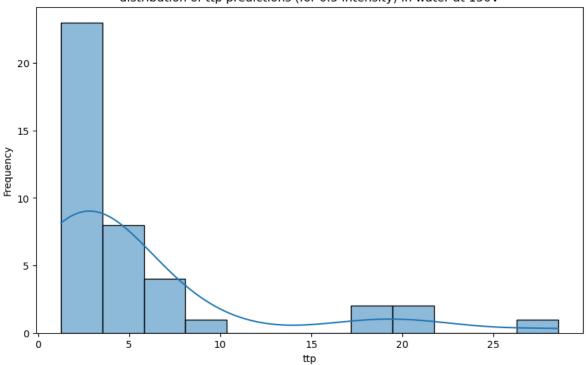
```
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
from collections import Counter
import numpy as np
```

```
from water150ttp import values

num_values = []
for v in values:
    try:
        num_values.append(float(v))
    except ValueError:
        continue

plt.figure(figsize=(10, 6))
sns.histplot(num_values, kde=True)
plt.title("distribution of ttp predictions (for 0.5 intensity) in water at 150V")
plt.xlabel("ttp")
plt.ylabel("Frequency")
plt.show()
```





```
from water150ttp import values

total = len(values)
good_prediction_count = 0
error_counter = Counter()

for v in values:
    try:
        float(v)
        good_prediction_count += 1
    except ValueError:
        error_counter[v] += 1

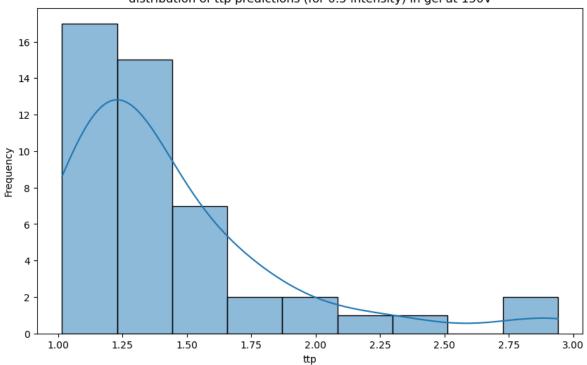
table_data = [{'Text': text, 'Percent': (count / total) * 100} for text, count in error_countable_data.append({'Text': 'good prediction', 'Percent': (good_prediction_count / total) * 1

print("Summary of errors for water at 150V")
df = pd.DataFrame(table_data)
print(df)
```

```
Summary of errors for water at 150V
                     Text
                           Percent
          Error: poor fit 39.130435
1 Error: ttp is too long
                          1.449275
          good prediction 59.420290
from water0 import values
total = len(values)
good_prediction_count = 0
error_counter = Counter()
for v in values:
   try:
        float(v)
        good_prediction_count += 1
    except ValueError:
        error_counter[v] += 1
table_data = [{'Text': text, 'Percent': (count / total) * 100} for text, count in error_count
table_data.append({'Text': 'good prediction', 'Percent': (good_prediction_count / total) * 1
df = pd.DataFrame(table_data)
print("Summary of errors for water at OV")
print("Water at OV:")
print(df)
print("Note: poor fit here was R^2 worse than 0.01")
Summary of errors for water at OV
Water at OV:
              Text Percent
O Error: poor fit
                      100.0
1 good prediction
                       0.0
Note: poor fit here was R^2 worse than 0.01
from gel150ttp import values
num_values = []
for v in values:
   try:
        num_values.append(float(v))
    except ValueError:
```

```
plt.figure(figsize=(10, 6))
sns.histplot(num_values, kde=True)
plt.title("distribution of ttp predictions (for 0.5 intensity) in gel at 150V")
plt.xlabel("ttp")
plt.ylabel("Frequency")
plt.show()
```



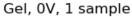


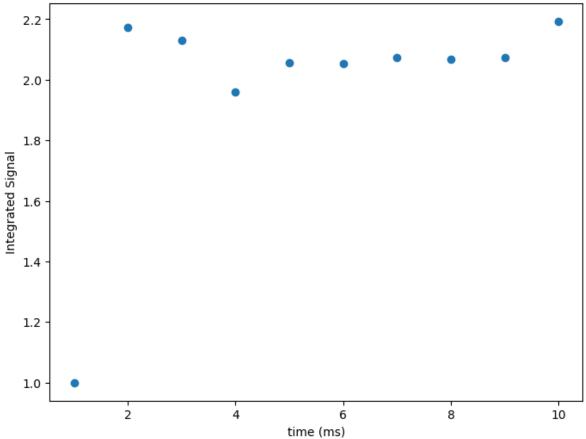
```
from gel150ttp import values

total = len(values)
good_prediction_count = 0
error_counter = Counter()

for v in values:
    try:
        float(v)
        good_prediction_count += 1
    except ValueError:
```

```
error_counter[v] += 1
table_data = [{'Text': text, 'Percent': (count / total) * 100} for text, count in error_count
table_data.append({'Text': 'good prediction', 'Percent': (good_prediction_count / total) * 1
df = pd.DataFrame(table_data)
print("Summary of errors for gel at 150V")
print(df)
Summary of errors for gel at 150V
                      Text
                              Percent
0 Error: ttp is too short 2.083333
           good prediction 97.916667
from gelOint import ttp
x = list(range(1, 11))
plt.figure(figsize=(8, 6))
plt.scatter(x, ttp, marker='o')
plt.xlabel("time (ms)")
plt.ylabel("Integrated Signal")
plt.title("Gel, OV, 1 sample")
plt.show()
```





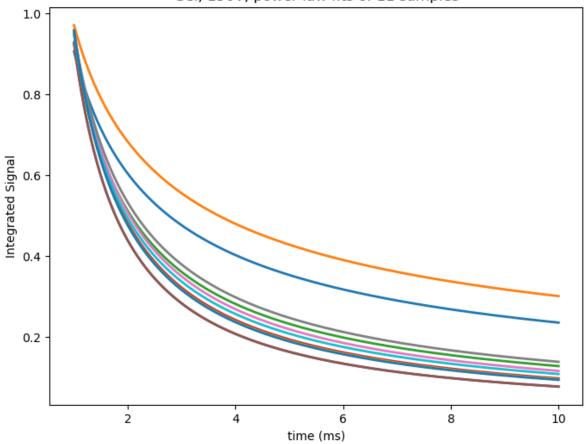
```
from gel150Aint import powerlaw_fits

plt.figure(figsize=(8, 6))
x = np.linspace(1, 10, 1000)

for i in range(1, 12):
    a, b = powerlaw_fits[f"IntSig{i}"]
    fit_curve = a * (x ** b)
    plt.plot(x, fit_curve, '-', linewidth=2)

plt.xlabel("time (ms)")
plt.ylabel("Integrated Signal")
plt.title("Gel, 150V, power law fits of 11 samples")
plt.show()
```





```
from gel150Bint import powerlaw_fits

plt.figure(figsize=(8, 6))
x = np.linspace(1, 10, 1000)

for i in range(1, 12):
    a, b = powerlaw_fits[f"IntSig{i}"]
    fit_curve = a * (x ** b)
    plt.plot(x, fit_curve, '-', linewidth=2)

plt.xlabel("time (ms)")
plt.ylabel("Integrated Signal")
plt.title("Gel, 150V, power law fits of 23 samples from new spot on gel")
plt.show()
```

