Save

| Step 1: Characterization | Step 2: Synthesis | Step 3: Analysis |

Synthetic Data

[Select File] [D:\example_data\LFP_BLA_gamma_SynDa]
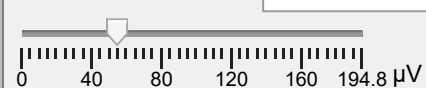
[Review Settings] [Load]

Pre-selected Bounds

Lower Bound θL   ◉ Default   ○ Specify: | 23.72 µV | 1.41 σ |

Upper Bound θU   ◉ Default   ○ Specify: | 23.72 µV | 1.41 σ |

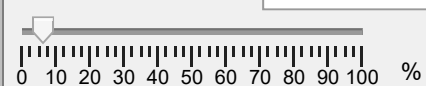| Time (<θL) | 0.515 % | False Peak Rate | 12.93 Hz | 50 % |
| Time (>θU) | 0.485 % | True Peak Rate | 12.91 Hz | 50 % |

[Select Bounds]

Detection Performance and ROC Curve

Number of Thresholds   ◉ Default   ○ Specify: | 50 |

Detect on ◉ Amplitude peak ○ Amplitude   [Evaluate]

Detection Threshold | 1 z-score |

|————●——————————————————|
0   40   80   120   160 194.8 µV

False Positive Rate | 0.825 Hz |

|▽————————————————————————|
0 10 20 30 40 50 60 70 80 90 100   %

Conditional Probability Given a Detection

| > the Threshold ▼ |

False (FDR)	11.8 %
Intermediate	0 %
True (PPV)	88.2 %

Results

Preselected bounds are calculated.
Upper bound is changed from 1.1 σ to 1.41 σ

Detecting on amplitude peak.
Optimal threshold:
Maximum Youden: 44.1 µV
Maximum Youden (in Hz): 44.1 µV

Detection threshold: 54.51 µV, False positive rate: 6.383 %

[Normalize]