NEUROCATCH INCORPORATED

Client name: Jane Doe
Client ID: 003-10554
Scan 3: 20-Aug-2020

Not for Diagnostic Use

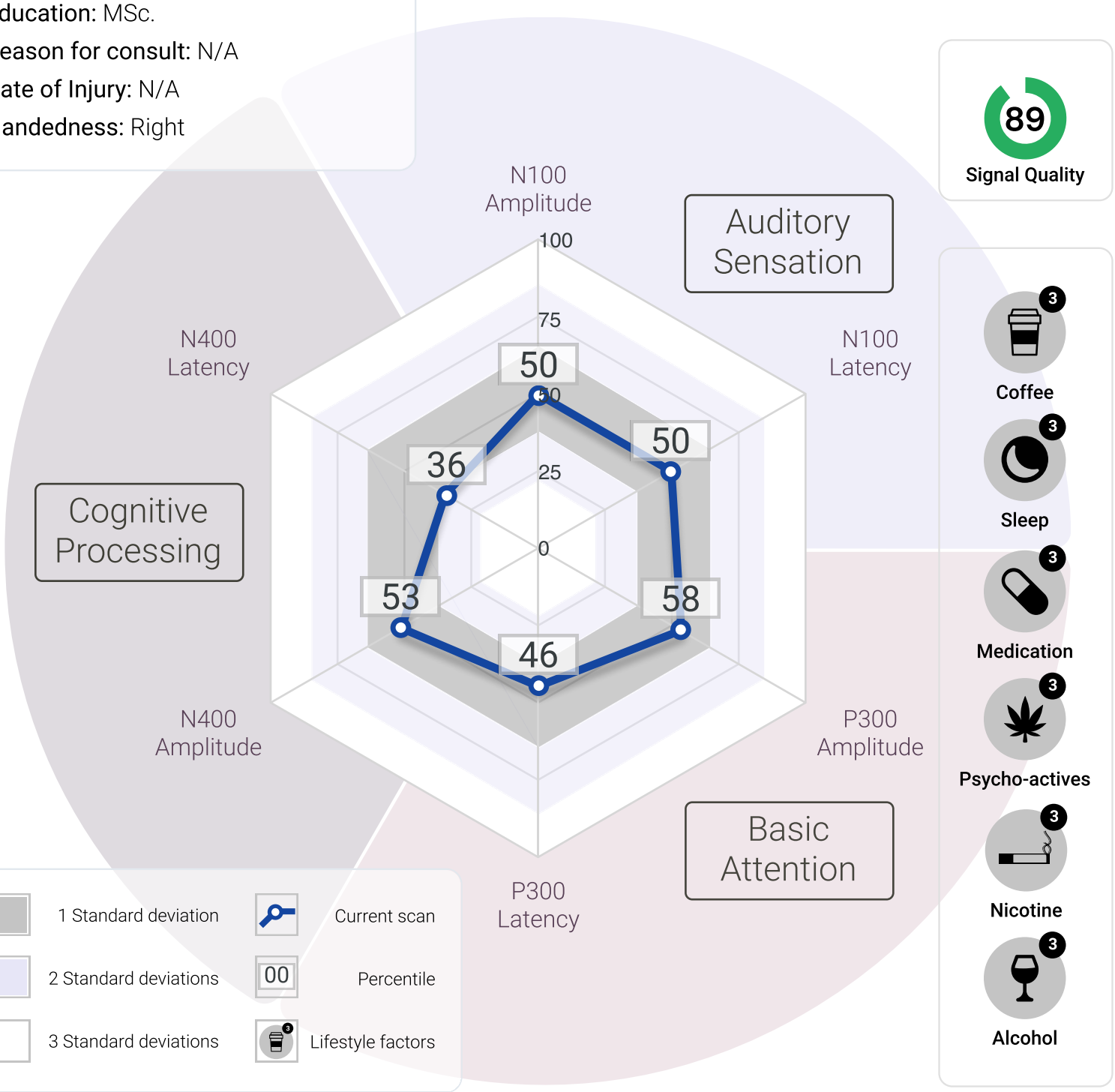
Client Information

DOB: 1966 (54 y/old)
Gender: Female
Language(s): English (native), French
Occupation: ACME Engineer
Education: MSc.
Reason for consult: N/A
Date of Injury: N/A
Handedness: Right

Raw Values

	N100	P300	N400
Amplitude	10.76 µV	10.76 µV	10.76 µV
Latency	124 ms	124 ms	124 ms

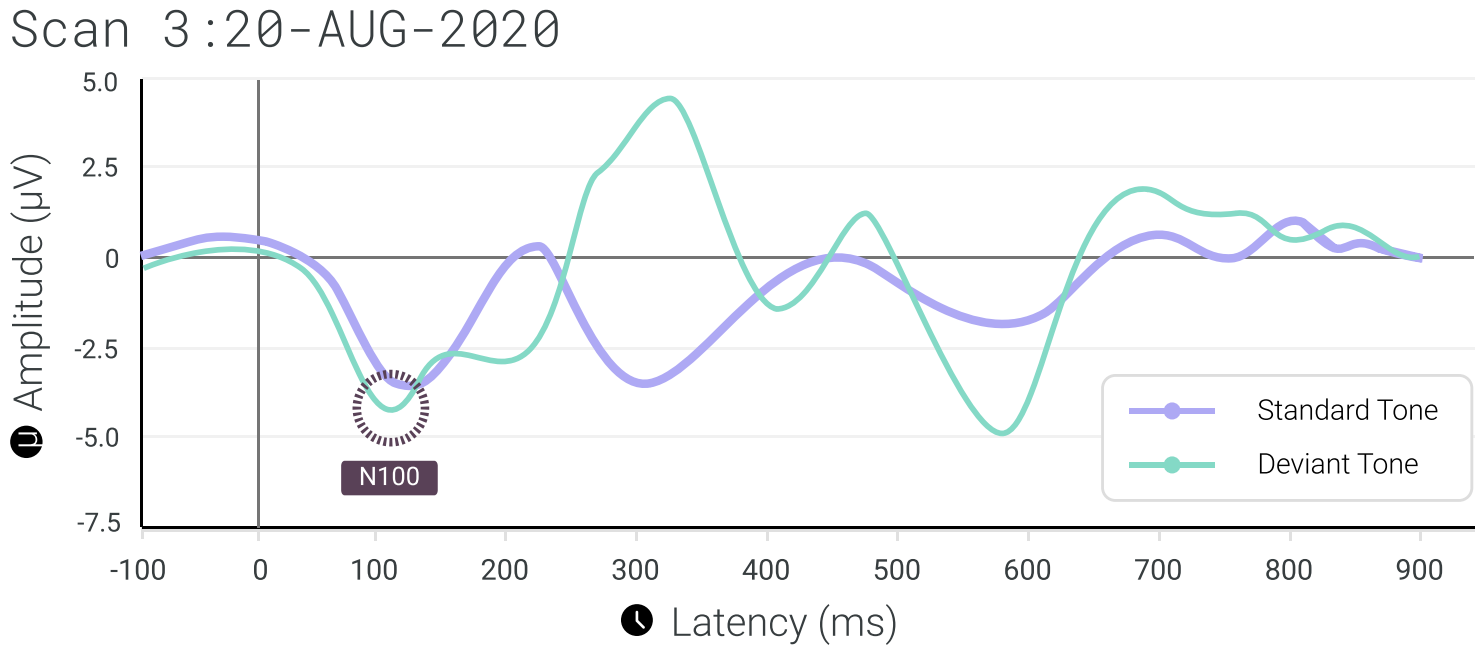
89
Signal Quality



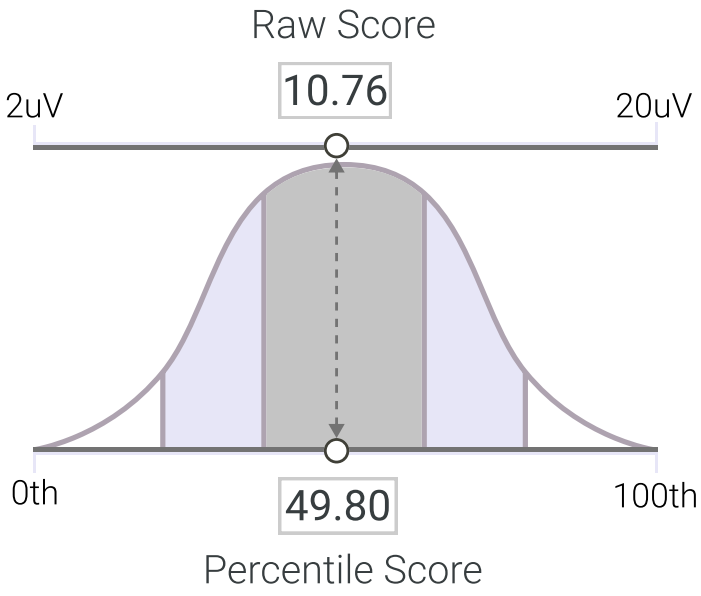
3 **Coffee**
3 **Sleep**
3 **Medication**
3 **Psycho-actives**
3 **Nicotine**
3 **Alcohol**

1 Standard deviation
2 Standard deviations
3 Standard deviations
Current scan
00 Percentile
Lifestyle factors

N100 Waveform - Auditory Sensation



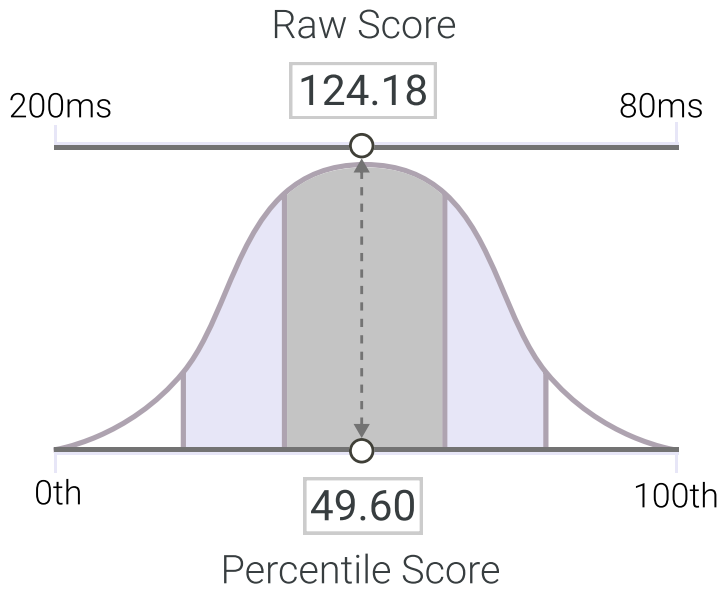
Amplitude



± 3σ	± 2σ	± 1σ	± 2σ	± 3σ

σ = Standard Deviation

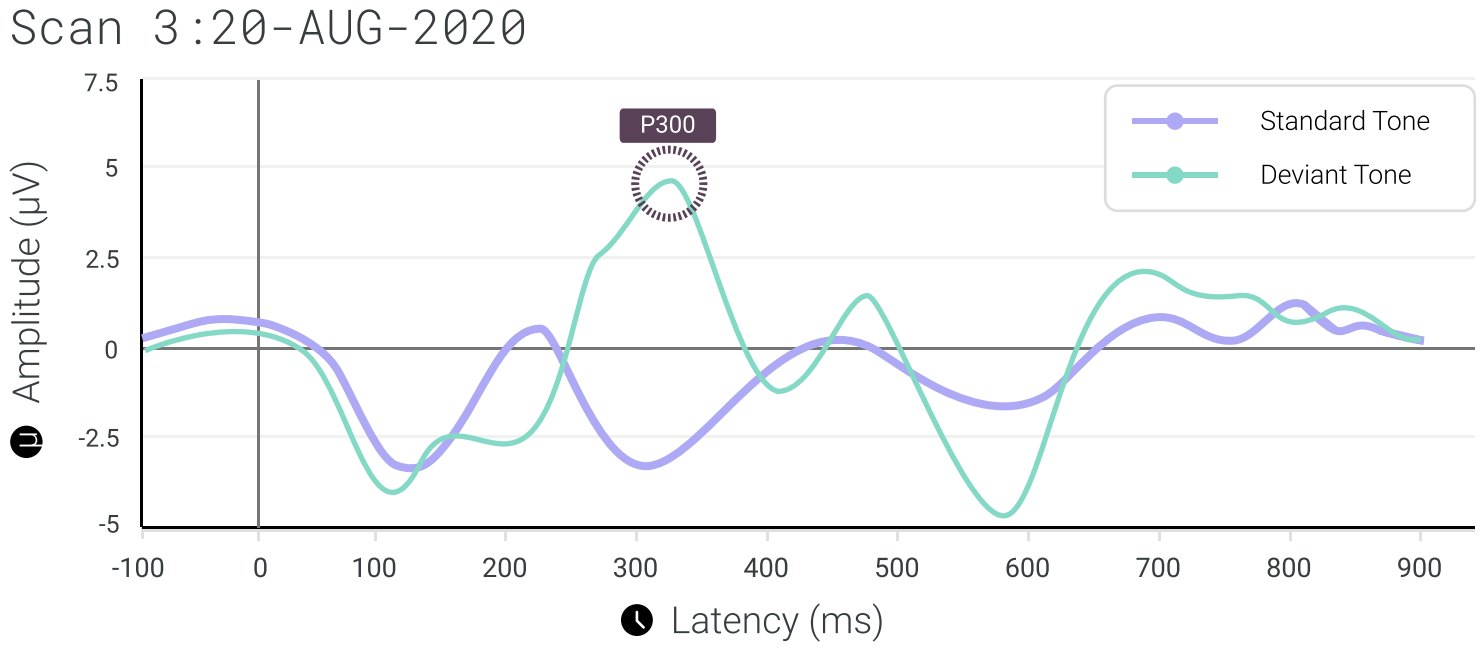
Latency



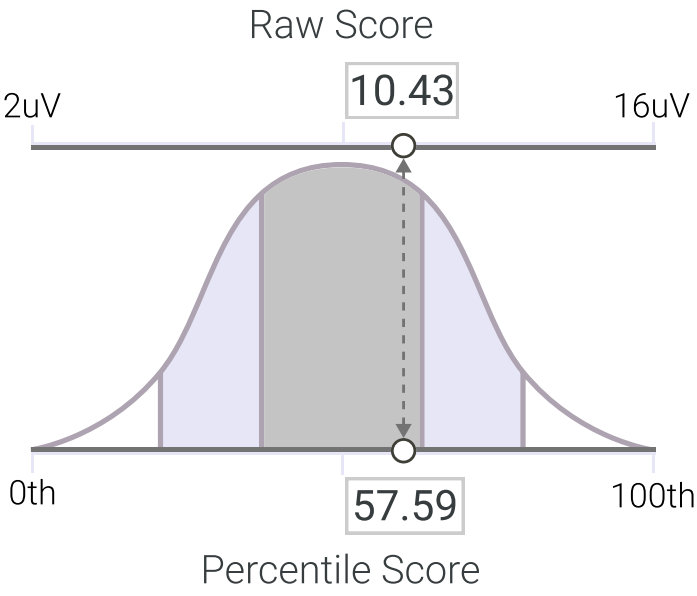
± 3σ	± 2σ	± 1σ	± 2σ	± 3σ

σ = Standard Deviation

P300 Waveform - Basic Attention



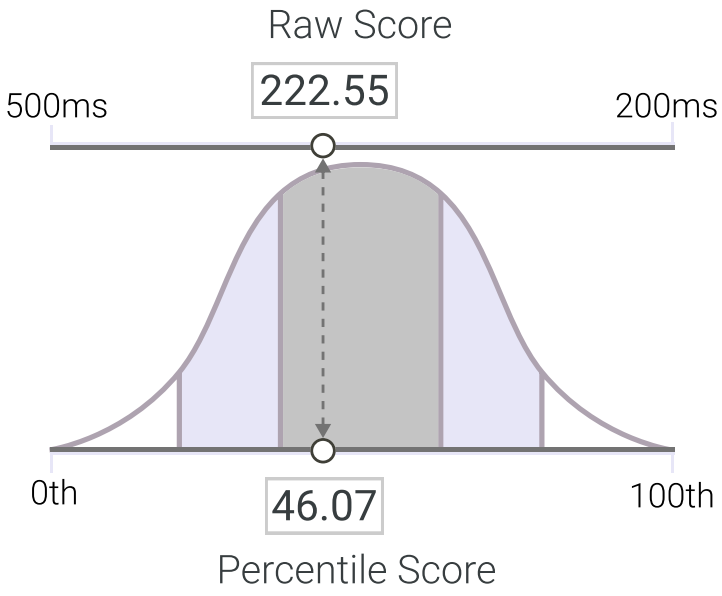
Amplitude



± 3σ	± 2σ	± 1σ	± 2σ	± 3σ

σ = Standard Deviation

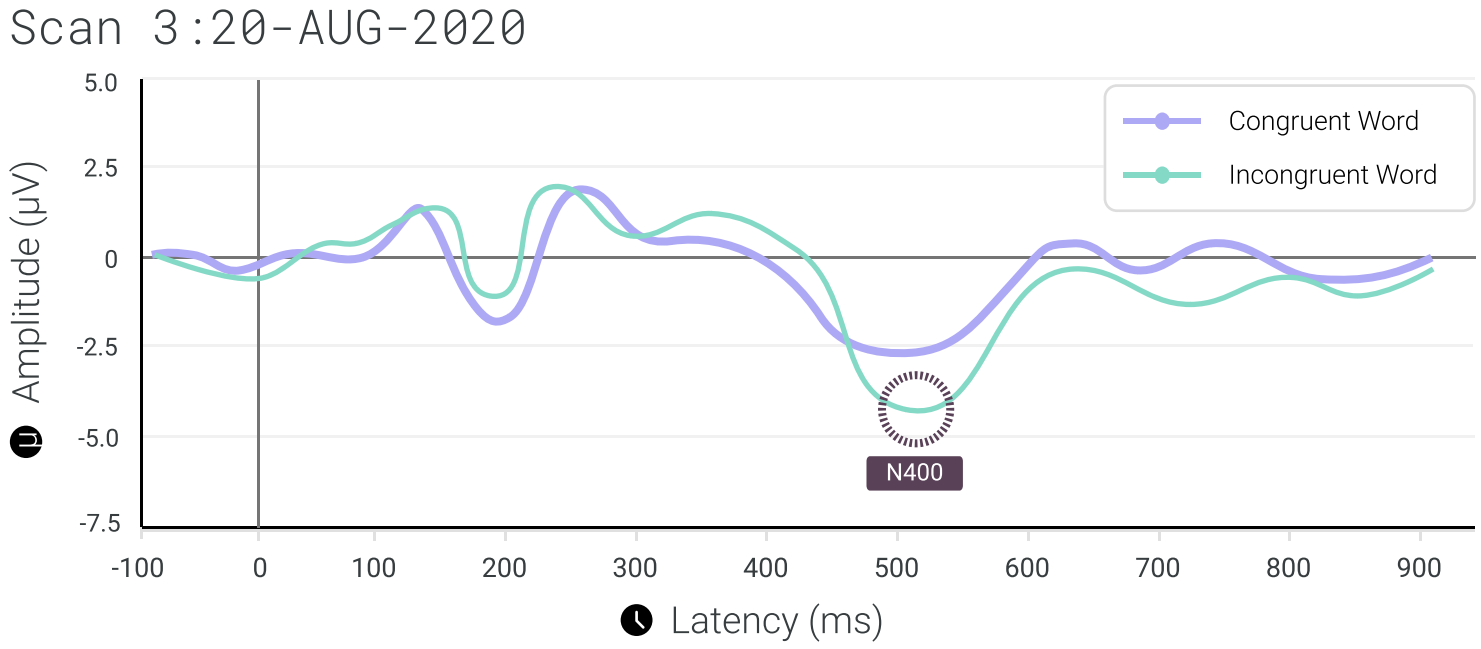
Latency



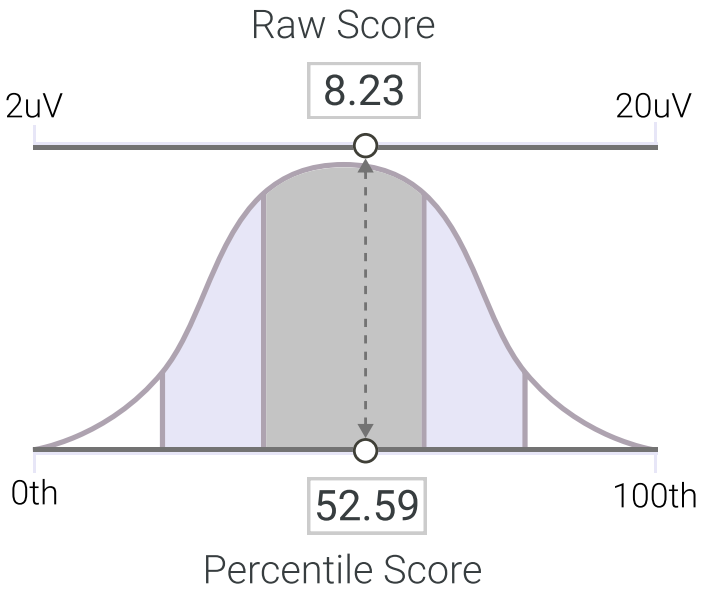
± 3σ	± 2σ	± 1σ	± 2σ	± 3σ

σ = Standard Deviation

N400 Waveform - Cognitive Processing



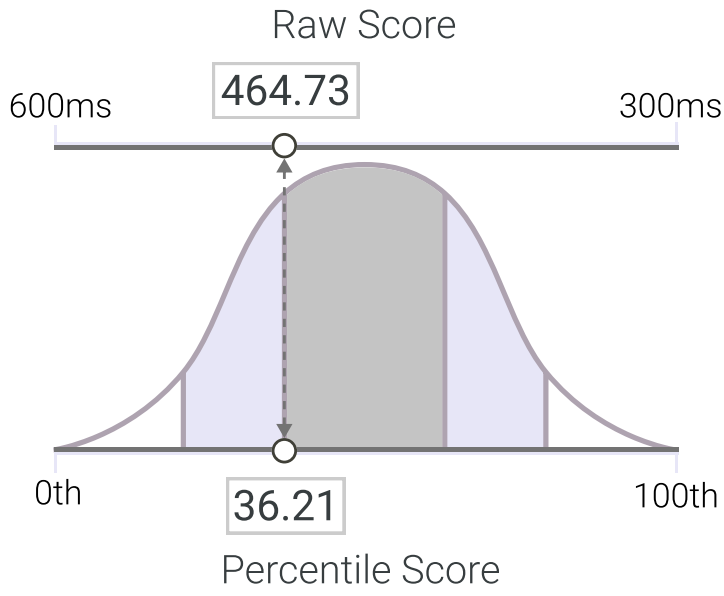
Amplitude



± 3σ	± 2σ	± 1σ	± 2σ	± 3σ

σ = Standard Deviation

Latency

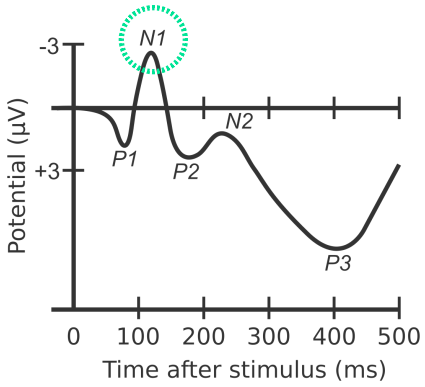


± 3σ	± 2σ	± 1σ	± 2σ	± 3σ

σ = Standard Deviation

Glossary of terms

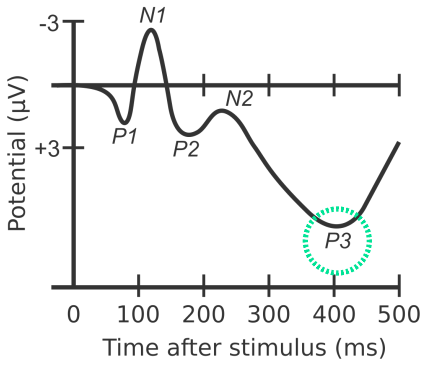
ERP Overview



N100: Auditory Sensation

Looking at reaction times and auditory sensation.

The N100 response is elicited by auditory tones and represented in a negative-going wave that typically peaks around 100ms after the tone, although the response may range anywhere between 80-200ms. The amplitude of the wave typically measures between 2-20 microvolts. The N100 represents an orienting response to sensory detection of the sound. The N100, when present, is a physiological representation that the sensory information has entered auditory processing systems of the brain.

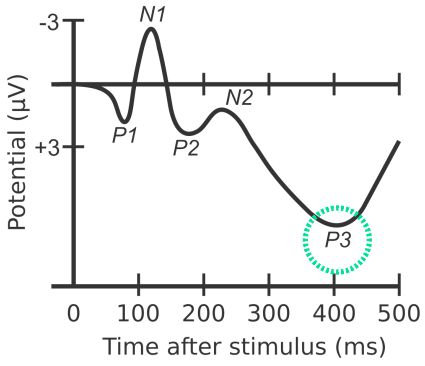


P300: Basic Attention

Destroy the blinds. Annoy the old grumpy cat, start a fight and then retreat to wash when i lose.

The P300 response is elicited by deviant tones embedded in a sequence of expected tones. The response is represented in a positive-going wave that peaks at 300ms after a deviant tone, although it may have a latency anywhere between 250 – 500ms and an amplitude between 2-40 microvolts. The response is sensitive to unpredictable events that require attention, contextual updating and memory processes. Higher latencies in the P300 are typically representative of delayed informational processing capacity.

It is worth noting that factors such as high coffee intake or lack of sleep can affect the P300 response and should be noted in the system at the time of the scan. Delayed information processing is known to be related to a number of conditions that are related to brain health. When a client without a prior diagnosis or known condition presents a P300 with a higher latency, further investigation into the client condition is recommended.



N400: Cognitive Processing

Looking at reaction times and auditory sensation.

The N400 response is elicited by presenting incongruent word pairs embedded in a sequence of congruent word pairs. The response is represented in a negative-going wave that typically peaks around 400ms after an unexpected word pair, although the response may range anywhere between 300-600ms. The amplitude of the wave typically measures between 1-10 microvolts.