QuantumBCI Analysis Report

Generated: 2025-10-06 20:01:32

Session Information

Filename: S108R14.edf

Upload Time: 2025-10-06 19:54:15

Original Channels: 64

Selected Channels: 20

Processing Status: processing

Brain Metrics Analysis

Brain State: Deep Sleep (Stage 3-4 NREM)

Frequency Band Powers

Band	Absolute Power (uV^2)	Relative Power (%)	
Delta	0.0000	68.98%	
Theta	0.0000	18.90%	
Alpha	0.0000	6.54%	
Beta	0.0000	4.23%	
Gamma	0.0000	1.35%	

Model Predictions

Model	Prediction	Accuracy	Time (s)
Brain State Classifier (Sci	er tījēe p Sleep (Stage 3-4 NREM)	100.00%	0.050
Quantum SVM (QSVM)	Low Neural Activity	87.50%	21.900

Summary & Recommendations

- Best performing model: Brain State Classifier (Scientific) with 100.00% accuracy

- Detected brain state: Deep Sleep (Stage 3-4 NREM)

- Dominant frequency band: Delta

- Total spectral power: 0.0000 uV^2

Clinical Recommendations:

- Low alpha activity may indicate stress or active cognitive processing
- Continue monitoring for trend analysis
- Consult with neurologist for clinical interpretation