# **QuantumBCI Analysis Report**

Generated: 2025-10-06 18:52:37

#### **Session Information**

Filename: S001R01.edf

Upload Time: 2025-10-06 18:52:37

Original Channels: 64

Selected Channels: 20

Processing Status: Complete

### **Brain Metrics Analysis**

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

#### **Frequency Band Powers**

Band	Absolute Power (uV^2)	Relative Power (%)	
Delta	0.5144	78.18%	
Theta	0.1129	17.16%	
Alpha	0.0237	3.61%	
Beta	0.0057	0.87%	
Gamma	0.0013	0.19%	

#### **Model Predictions**

Model	Prediction	Accuracy	Time (s)
Brain State Classifier (Scientifie) Sleep (Stage 3-4 NREM)		100.00%	0.050

## **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: 0.6581 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