# **QuantumBCI Analysis Report**

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#### **Session Information**

Filename: S108R01.edf

Upload Time: 2025-10-06 09:09:03

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	0.8281	82.76%	
Theta	0.0960	9.59%	
Alpha	0.0420	4.20%	
Beta	0.0299	2.99%	
Gamma	0.0046	0.46%	

#### **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: 1.0007 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