

QuantumBCI Analysis Report

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Session Information

Filename:	test_eeg_64ch.edf
Upload Time:	2025-10-01 08:00:00
Original Channels:	64
Selected Channels:	20
Processing Status:	completed

Brain Metrics Analysis

Brain State:	Relaxed/Wakeful
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Frequency Band Powers

Band	Absolute Power (uV^2)	Relative Power (%)
Delta	0.0002	0.02%
Theta	0.0001	0.01%
Alpha	0.6366	73.30%
Beta	0.2312	26.60%
Gamma	0.0003	0.03%

Model Predictions

Model	Type	Accuracy	Processing Time
QSVM	quantum	85.71%	0.891s
SVM	classical	66.67%	0.042s
Random Forest	classical	66.67%	0.018s

Summary & Recommendations

- Best performing model: QSVM with 85.71% accuracy
- Detected brain state: Relaxed/Wakeful
- Dominant frequency band: Alpha
- Total spectral power: 0.8684 μV^2

Clinical Recommendations:

- High alpha activity detected - suggests relaxed, wakeful state
- Continue monitoring for trend analysis
- Consult with neurologist for clinical interpretation