

RADIO TELESCOPE DATA ANALYSIS REPORT

=====

Data File: radio_data_clean_20250703_182323.csv
Analysis Date: 2025-07-03 18:27:12

Observation Duration: 24.5 seconds (0.4 minutes)
Total Data Points: 247
Average Sample Rate: 10.1 Hz

SIGNAL STATISTICS:

	raw_adc	voltage	smoothed	baseline_diff	signal_strength
count	246.000000	246.000000	246.000000	246.000000	246.000000
mean	384.243902	1.878220	384.262195	9.551626	9.551626
std	0.439693	0.002198	0.438171	0.438388	0.438388
min	383.000000	1.872000	383.900000	9.180000	9.180000
25%	384.000000	1.877000	384.000000	9.290000	9.290000
50%	384.000000	1.877000	384.000000	9.290000	9.290000
75%	384.000000	1.877000	384.875000	10.155000	10.155000
max	385.000000	1.882000	385.000000	10.290000	10.290000

SIGNAL DETECTION (3-sigma threshold):
Detection Threshold: 10.87
Number of signal events: 0

RECOMMENDATIONS:

1. Point antenna at Sun during day for strong radio source
2. Try observations at different times of day
3. Look for periodic variations in signal strength
4. Compare signal levels when pointing at different sky regions
5. Record weather conditions and correlate with signal variations