## RADIO TELESCOPE DATA ANALYSIS REPORT

Data File: radio\_data\_clean\_20250704\_095948.csv

Analysis Date: 2025-07-04 10:00:28

Observation Duration: 23.8 seconds (0.4 minutes)

Total Data Points: 240

Average Sample Rate: 10.1 Hz

## SIGNAL STATISTICS:

raw adc voltage smoothed baseline diff signal strength 239.000000 count 239.000000 239.000000 239.000000 239.000000 2.202887 mean 39.811715 0.195046 39.792887 2.202887 std 0.422712 0.002081 0.291893 0.291893 0.291893 39.000000 0.191000 39.000000 1.410000 min 1.410000 25% 40.000000 0.196000 39.600000 2.010000 2.010000 50% 40.000000 0.196000 39.900000 2.310000 2.310000 2.410000 75% 40.000000 0.196000 40.000000 2.410000 41.000000 0.200000 40.200000 2.610000 2.610000 max

## SIGNAL DETECTION (3-sigma threshold):

Detection Threshold: 3.08 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