

# TWB Gage Signal File to RSS SPS File Converter

Analysis run date: 04 Jan 2014 13:22:37 Local

Analysis complete: 04 Jan 2014 14:30:21 Local

## Data Conversion Analysis Report

Observation start time: 29 Dec 2013 10:09:28 UTC

Duration of observation: 59.976 real-time seconds

Data directory: R:\Observation Records\AJ4CO

Observatory\TWB\Gage\20131229 Io-A-C\2013-12-29\_50\_CH01\Folder.00001

Number of digitized input files: 153

First input filename: AS\_CH01-001.sig

Last input filename: AS\_CH01-153.sig

Digitized burst file size: 2096961 samples per file

Digitized burst file sample rate: 10 MHz

Digitized burst file duration: 209.696 ms

Digitized burst cycle time: 392 ms

Dead time between data bursts: 182.304 ms

Digitization coverage: 53.4939 percent

FFT bins: 2048

FFT sweep time: 204.8  $\mu$ s

FFT sweeps per digitized data burst: 1023

Dead FFT sweeps between each digitized data burst: 889

FFT sweeps per digitized data burst including dead time padding: 1912

Total FFT sweeps for 153 input files, including padding: 292536

FFT BW: 5 MHz

FFT RBW: 4.88281 kHz

FFT Windowing: None (uniform window)

FFT display low frequency: 2.8 MHz ( FFT bin # 574 )

FFT display high frequency: 4.8 MHz ( FFT bin # 984 )

Total FFT bins exported to SPS file: 411

DC offset per FFT element zero: 7.17417  $\mu$ W (last FFT sweep of last data file)

DC offset applied to FFT before calculating dBm: 100  $\mu$ W

DC offset applied to FFT after calculating dBm: 11 dBm

SPS file detector sensitivity: 50 ADC counts per dB

DC offset applied to SPS data before export to SPS file: 1000 ADC counts

SPS output file name: AJ4CO-TWB-20131229100928.sps

SPS data file sweep rate: 4882.81 sweeps (FFT spectra) per second

SPS file start time: 29 Dec 2013 10:09:28.000 UTC

SPS file end time: 29 Dec 2013 10:10:27.911 UTC