TWB Gage Signal File to RSS SPS File Converter

Analysis run date: 05 Jan 2014 14:02:06 Local
Analysis complete: 05 Jan 2014 15:08:44 Local

Data Conversion Analysis Report

Observation start time: 29 Dec 2013 10:22:17 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_58_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 μs
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: 7.10079 μW (last FFT sweep of last data file)
DC offset applied to FFT before calculating dBm: 100 μW
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−20131229102217.sps
SPS data file sweep rate: 4882.81 sweeps (FFT spectra) per second
SPS file start time: 29 Dec 2013 10:22:17.000 UTC
SPS file end time: 29 Dec 2013 10:23:16.911 UTC