TWB Gage Signal File to RSS SPS File Converter

Analysis run date: 20 Dec 2013 19:07:05 Local
Analysis complete: 20 Dec 2013 19:11:28 Local

Data Conversion Analysis Report

Observation start time: 30 Nov 2013 06:28:00 UTC
Duration of observation: 3.92 real−time seconds

Data directory: R:\Observation Records\AJ4CO Observatory\TWB\Gage\20131130 Io−B\2013−11−30_009_CH01\Folder.00001\test
Number of digitized input files: 10
First input filename: AS_CH01−005.sig
Last input filename: AS_CH01−089.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 10 input files, including padding: 19120

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: 3.59495 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−20131130062800.sps
SPS data file sweep rate: 4882.81 sweeps (FFT spectra) per second
SPS file start time: 30 Nov 2013 06:28:00.000 UTC
SPS file end time: 30 Nov 2013 06:28:03.915 UTC