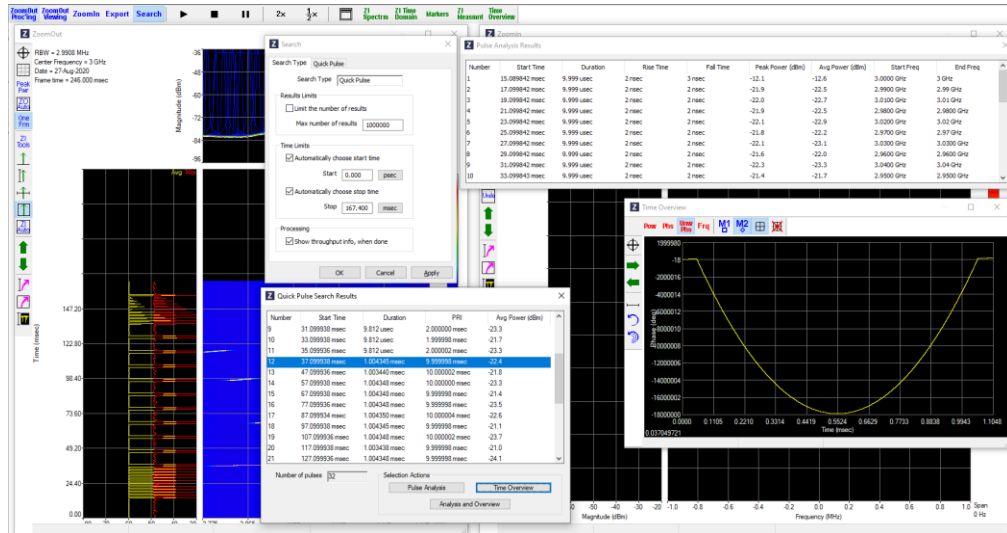


Optional ZoomOut Module

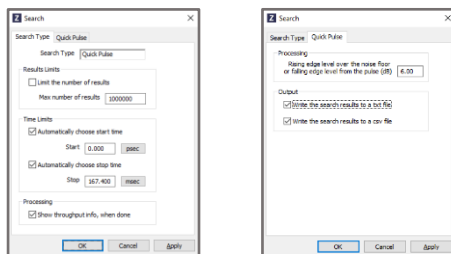
ZoomOut-Radar

- Radar & EW Pulse Analysis Module:



Option adds the following analysis windows to the ZoomOut Basic Analysis Table

Quick Pulse Search Function:



The search function can be used to search for RF Pulses/Bursts within a specified start/stop I/Q file time. User can graphically or manually set start/stop search time within I/Q file and set rising/falling edge threshold detection level.

Quick Pulse Search Results:

Number	Start Time	Duration	PRI	Avg Power (dBm)
1	15.089338 msec	9.849 usec	2.010000 msec	-12.6
2	17.099938 msec	9.810 usec	1.999980 msec	-22.5
3	19.099936 msec	9.815 usec	2.000000 msec	-22.7
4	21.099936 msec	9.813 usec	2.000000 msec	-22.5
5	23.099936 msec	9.812 usec	2.000000 msec	-22.9
6	25.099936 msec	9.813 usec	2.000000 msec	-22.2
7	27.099936 msec	9.812 usec	2.000000 msec	-23.1
8	29.099936 msec	9.812 usec	2.000002 msec	-22.0
9	31.099938 msec	9.812 usec	2.000000 msec	-23.3
10	33.099938 msec	9.812 usec	1.999980 msec	-21.7
11	35.099936 msec	9.812 usec	2.000002 msec	-23.3
12	37.099938 msec	1.004345 msec	9.999980 msec	-22.4
13	47.099936 msec	1.003440 msec	10.000002 msec	-21.8

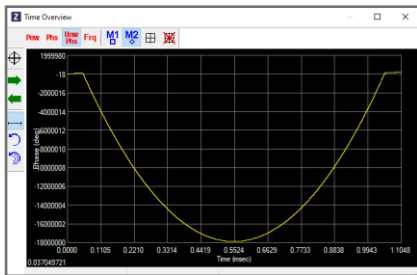
The Quick Pulse search results are displayed in table format and saved to file in csv/txt format. Burst/Pulse Measurements Included: Start Time, Duration, PRI – time between bursts, and Average Burst Power. The action buttons enable additional/detailed analysis in the Pulse Analysis and Time Overview windows

Quick Pulse Analysis PDW Table

User can select which bursts from the QS Pulse Results Table will be included in the creation of Detailed Pulse Analysis Table. Burst Measurements included: Start Time, Duration, Rise/Fall Time, Peak/Average Power, Start/End Frequencies.

Number	Start Time	Duration	Rise Time	Fall Time	Peak Power (dBm)	Avg Power (dBm)	Start Freq	End Freq
1	15.099842 msec	9.999 usec	2 nsec	3 nsec	-12.1	-12.6	3.0000 GHz	3 GHz
2	17.099842 msec	9.999 usec	2 nsec	2 nsec	-21.9	-22.5	2.9900 GHz	2.99 GHz
3	19.099842 msec	9.999 usec	2 nsec	2 nsec	-22.0	-22.7	3.0100 GHz	3.01 GHz
4	21.099842 msec	9.999 usec	2 nsec	2 nsec	-21.9	-22.5	2.9800 GHz	2.9800 GHz
5	23.099842 msec	9.999 usec	2 nsec	2 nsec	-22.1	-22.9	3.0200 GHz	3.02 GHz
6	25.099842 msec	9.999 usec	2 nsec	2 nsec	-21.8	-22.2	2.9700 GHz	2.97 GHz
7	27.099842 msec	9.999 usec	2 nsec	2 nsec	-22.1	-23.1	3.0300 GHz	3.0300 GHz
8	29.099842 msec	9.999 usec	2 nsec	2 nsec	-21.6	-22.0	2.9600 GHz	2.9600 GHz
9	31.099842 msec	9.999 usec	2 nsec	2 nsec	-22.3	-23.3	3.0400 GHz	3.04 GHz
10	33.099843 msec	9.999 usec	2 nsec	2 nsec	-21.4	-21.7	2.9500 GHz	2.9500 GHz

Time Overview:



Provides Power / Phase – wrapped and unwrapped / Frequency Deviation verses time trace relative to user specified start/stop time using graphical UI tools or manual data entry.

Please refer to the ZoomOut Basic Data Sheet for additional information on ZoomOut SW