

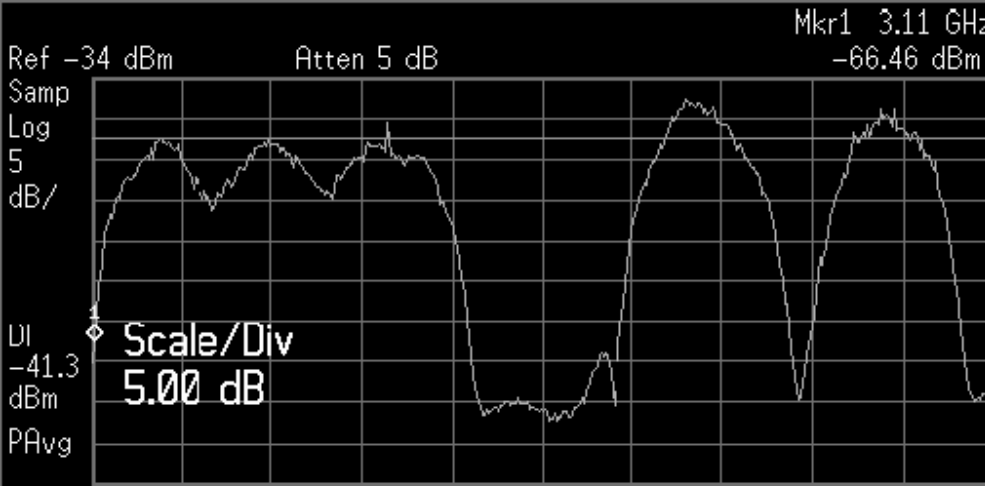
General Atomics Watchkeeper FCC Application

Exhibit 1: Waveform Characteristics

The parameters for the UWB waveform used by General Atomics are defined in the table below. Note the system transmits

Parameter	Value	Units
Pulse repetition frequency (PRF)	12	MHz
Number of sub-bands in a pulse	5	
Transmission time in each subpulse	~ 4	ns
Sub-band center frequency	3.48, 4.02, 4.56, 6.12, 6.96	GHz.
10 dB bandwidth per subband	550 ± 50	MHz
Peak power in 50 MHz at transmitter output (Max hold)	< 33	dBm
Peak EIRP in 50 MHz	< 70	dBm
Transmitter output mean PSD/MHz	< 23	dBm/MHz
Mean EIRP	<60	dBm/MHz

The figure shows the mean power plot before applying the final amplification



Start 3.1 GHz Stop 7.5 GHz
 #Res BW 1 MHz VBW 3 MHz Sweep 11 ms (401 pts)

Marker	Trace	Type	X Axis	Amplitude
1	(2)	Freq	3.11 GHz	-66.46 dBm

Amplitude

Ref Level
-34.00 dBm

Attenuation
5.00 dB
Auto Man

Scale/Div
5.00 dB

Scale Type
Log Lin

Presel Center

Presel Adjust
0.00000000 Hz

More
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