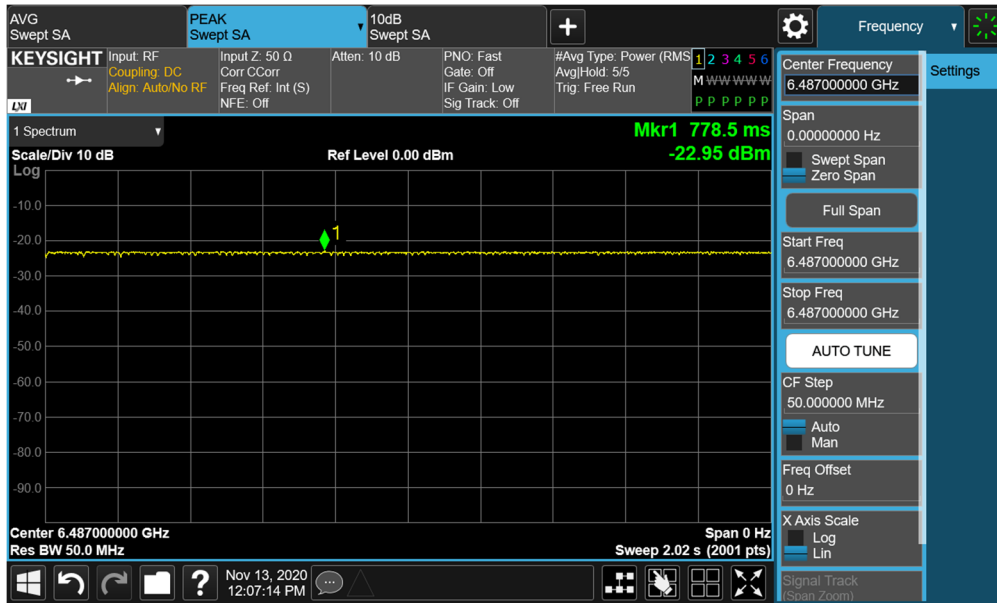
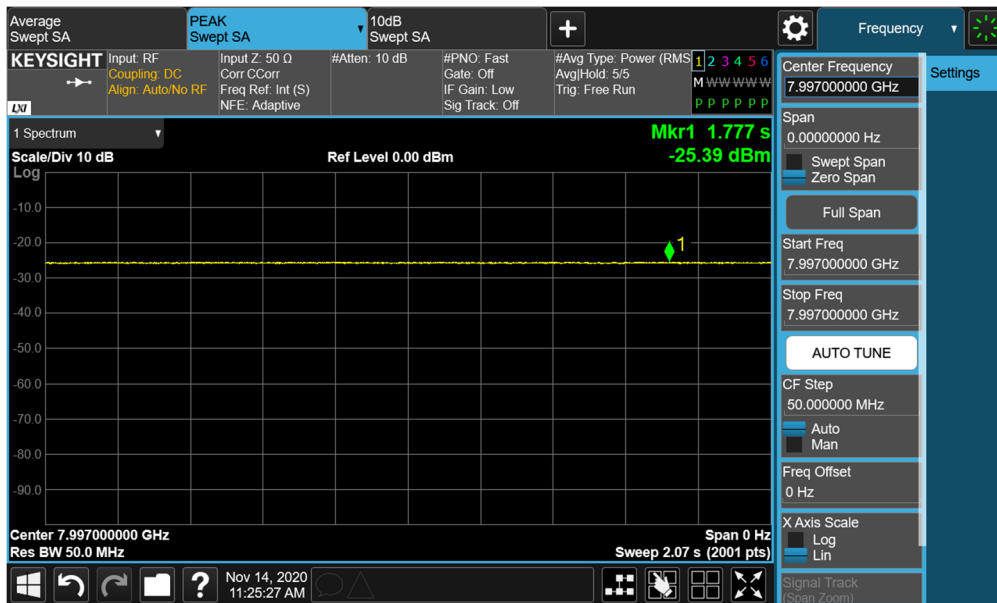
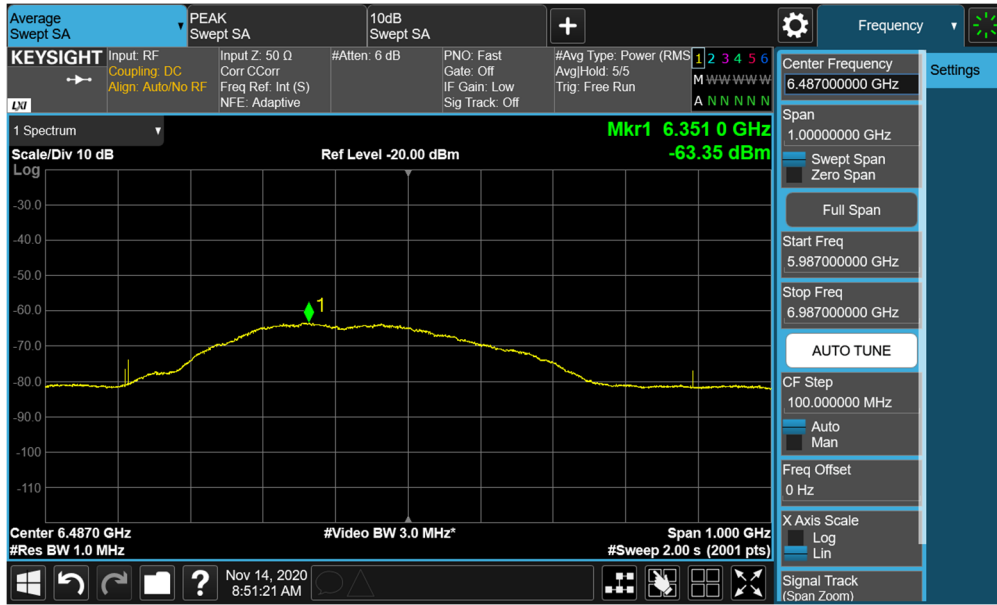


Plot 7-147. UWB Average Power Measurement - ANT 1 - CH.5 – SP3 – BPRF

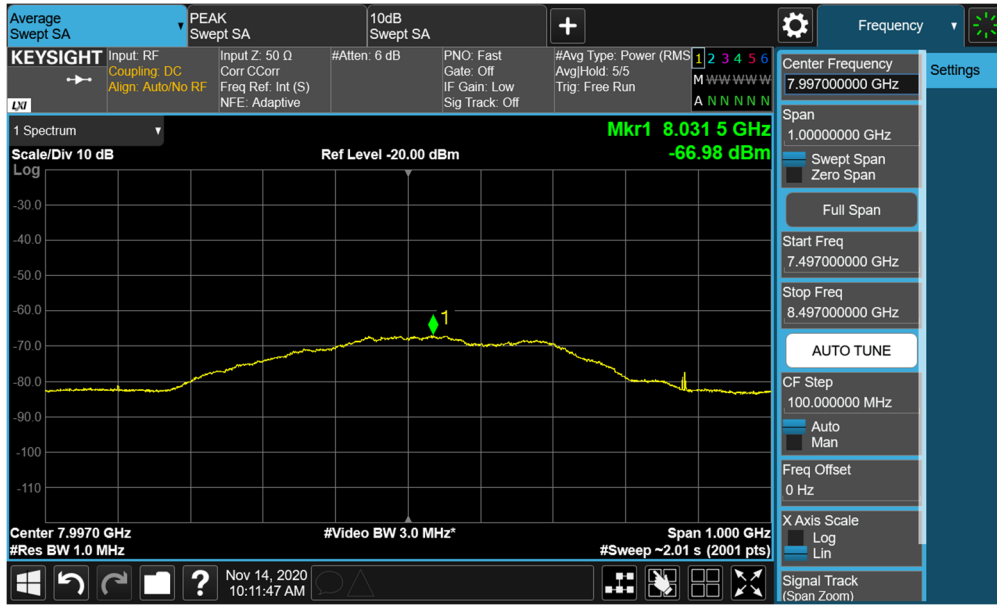


Plot 7-148. UWB Peak Power Measurement - ANT 2 - CH.5 – SP3 – BPRF

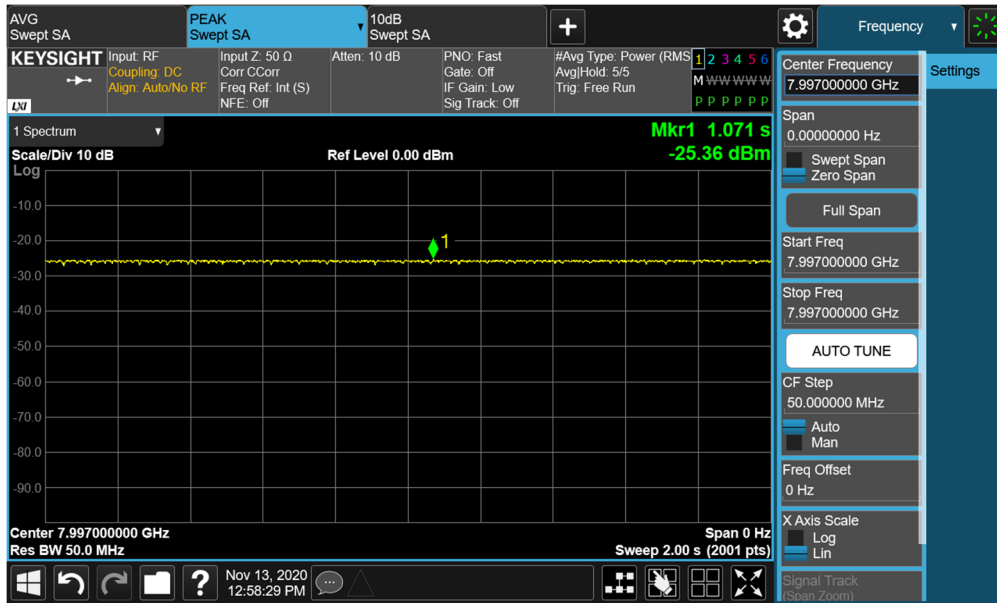
FCC ID: A3LSMG996U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-29.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 90 of 120



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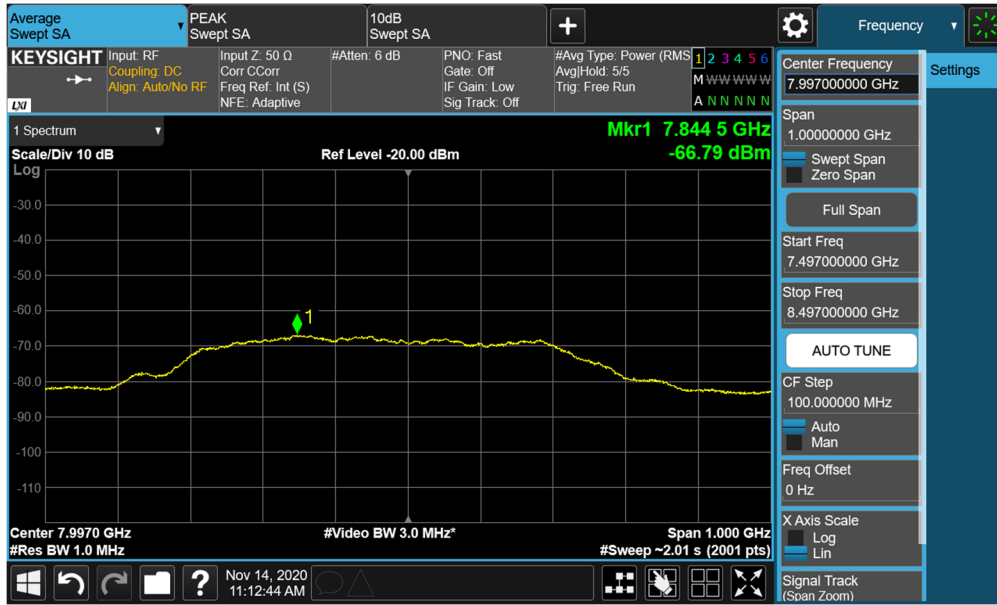


Plot 7-151. UWB Average Power Measurement - ANT 1 - CH.9 – SP3 - BPRF



Plot 7-152. UWB Peak Power Measurement - ANT 2 - CH.9 - SP0 – BPRF

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-153. UWB Average Power Measurement - ANT 2 - CH.9 – SP3 - BPRF

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-29.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 93 of 120

RESULTS – HPRF

ANT	CH	MODE	Preamble	Meas. Ant.	FM [GHz]	Peak Power (dBm/50MHz)	Peak Limit (dBm/50MHz)	Margin [dB]
1	5	SP0	28	V	6.487	-4.86	0	-4.86
2	5	SP0	28	H	6.487	-6.32	0	-6.32
1	9	SP0	26	H	7.997	-5.56	0	-5.56
2	9	SP1	25	H	7.997	-5.36	0	-5.36

Table 7-6. HPRF Highest Peak Power Results

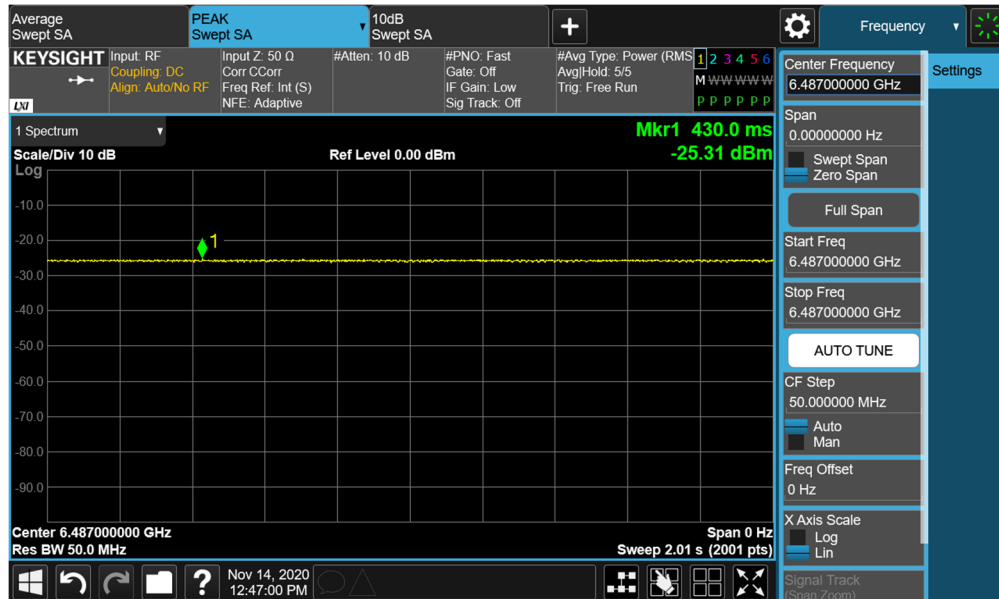
ANT	CH	MODE	Preamble	Meas. Ant.	FM [GHz]	Average Power (dBm)	Average Limit (dBm)	Margin [dB]
1	5	SP3	29	V	6.525	-42.93	-41.3	-1.63
2	5	SP0	26	H	6.345	-43.74	-41.3	-2.44
1	9	SP3	28	H	7.987	-43.62	-41.3	-2.32
2	9	SP3	27	H	7.813	-43.45	-41.3	-2.15

Table 7-7. HPRF Highest Average Power Results

Sample Calculation

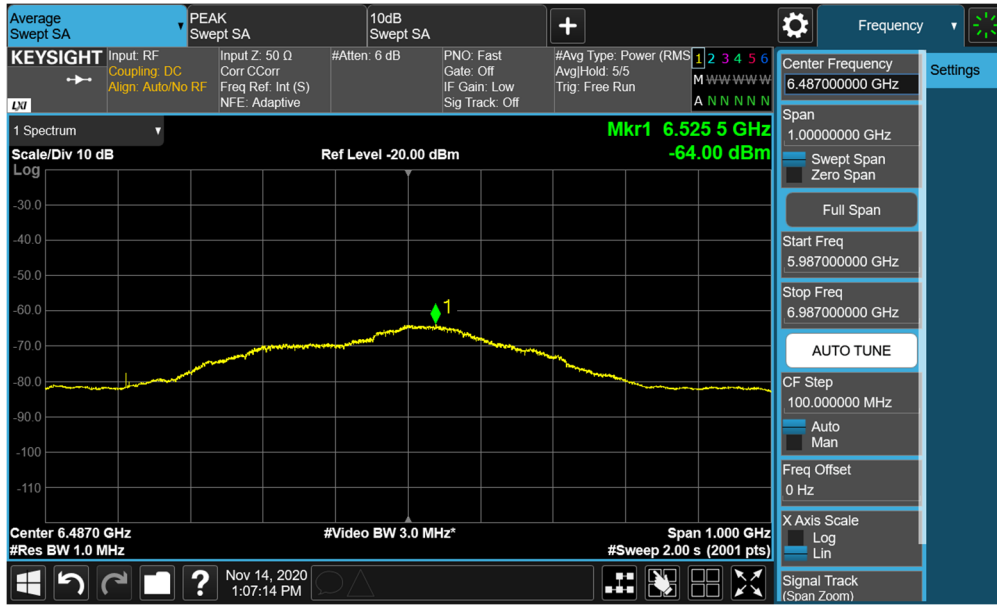
The raw radiated spurious level is converted to field strength in dBuV/m. Then, the EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter

$$RSE \text{ EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

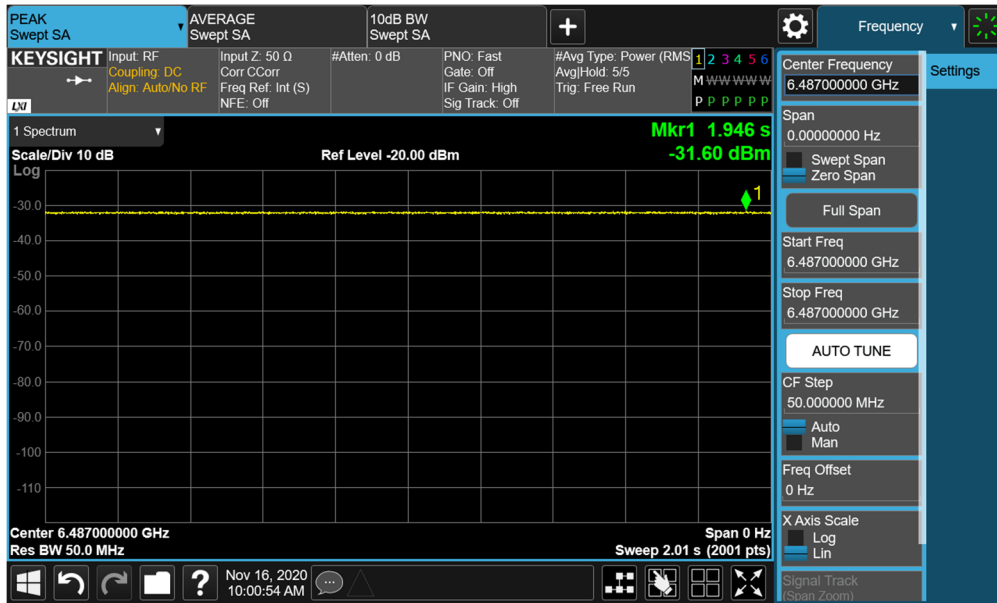


Plot 7-154. UWB Peak Power Measurement - ANT 1 - CH.5 – SP1 – HPRF

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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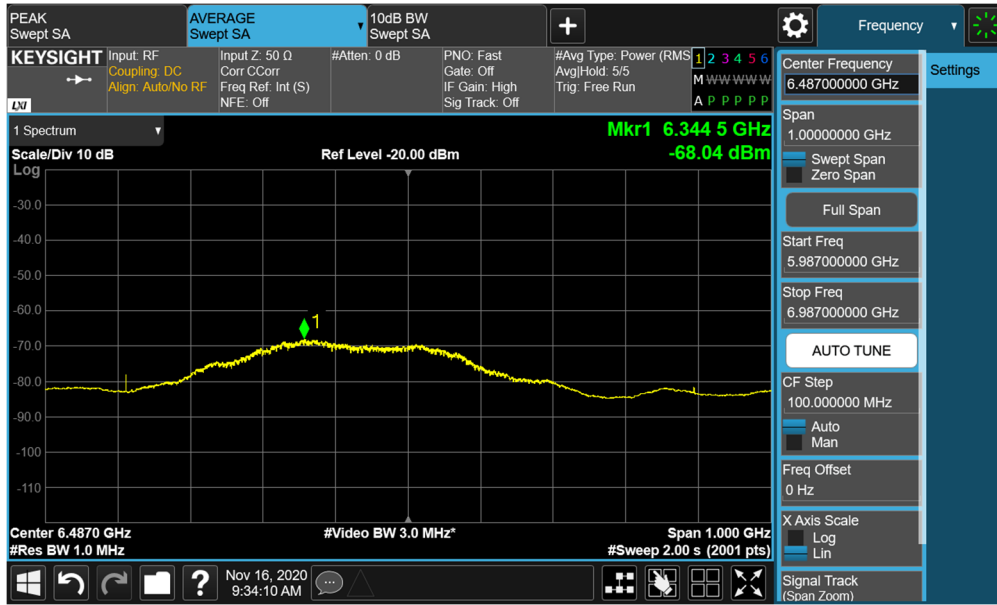


Plot 7-155. UWB Average Power Measurement - ANT 1 - CH.5 – SP3 – HPRF

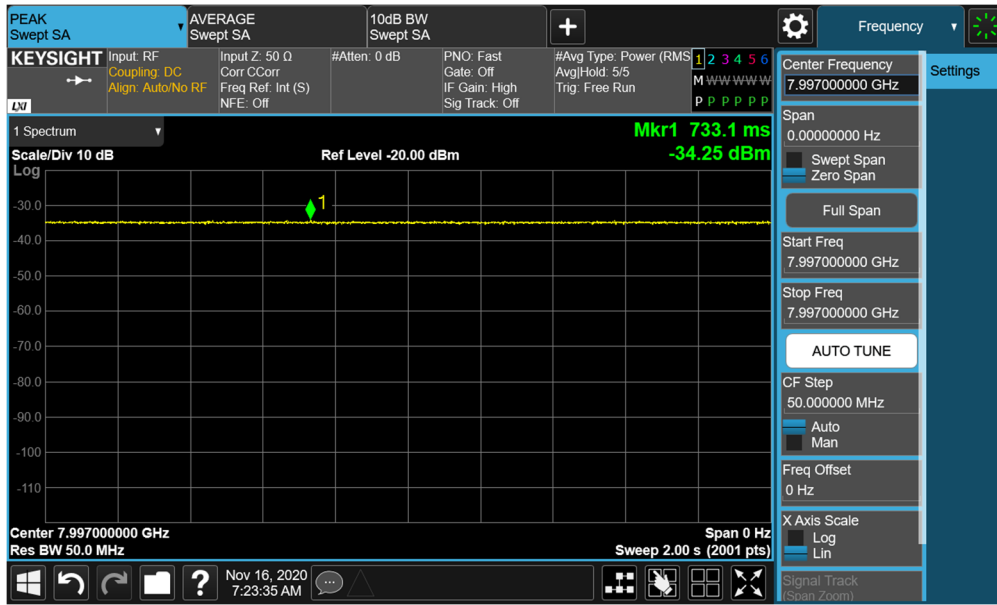


Plot 7-156. UWB Peak Power Measurement - ANT 2 - CH.5 – SP3 – HPRF

FCC ID: A3LSMG996U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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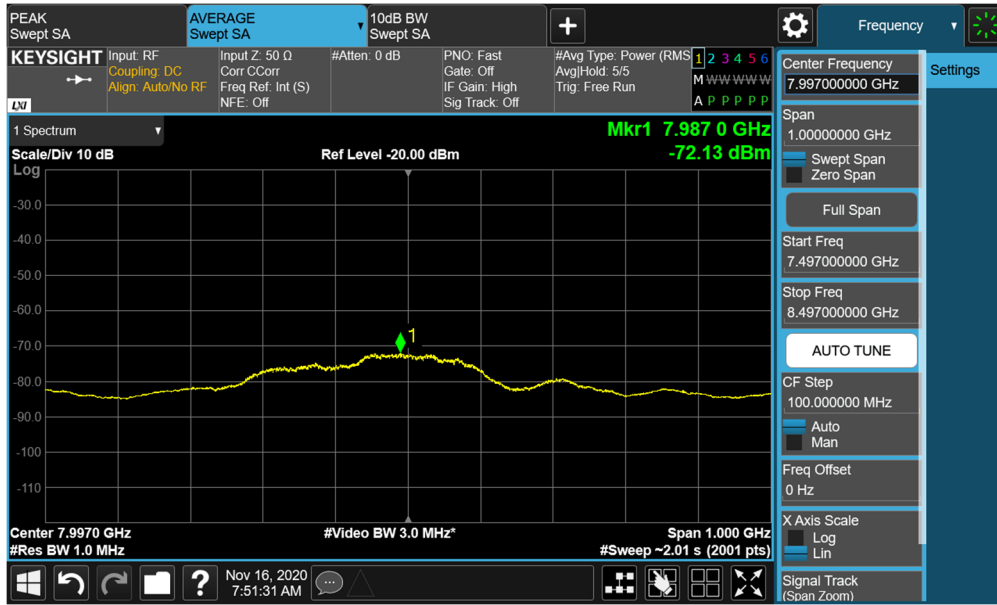


Plot 7-157. UWB Average Power Measurement - ANT 2 - CH.5 – SP3 - HPRF

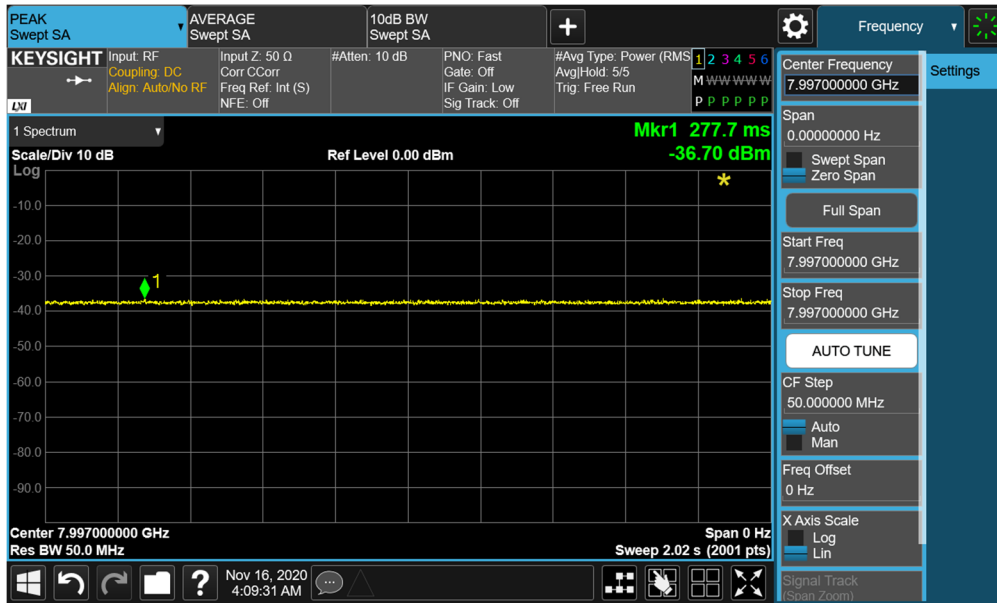


Plot 7-158. UWB Peak Power Measurement - ANT 1 - CH.9 – SP1 – HPRF

FCC ID: A3LSMG996U	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2009140143-29.A3L	Test Dates: 09/15 - 11/10/2020	EUT Type: Portable Handset		Page 96 of 120

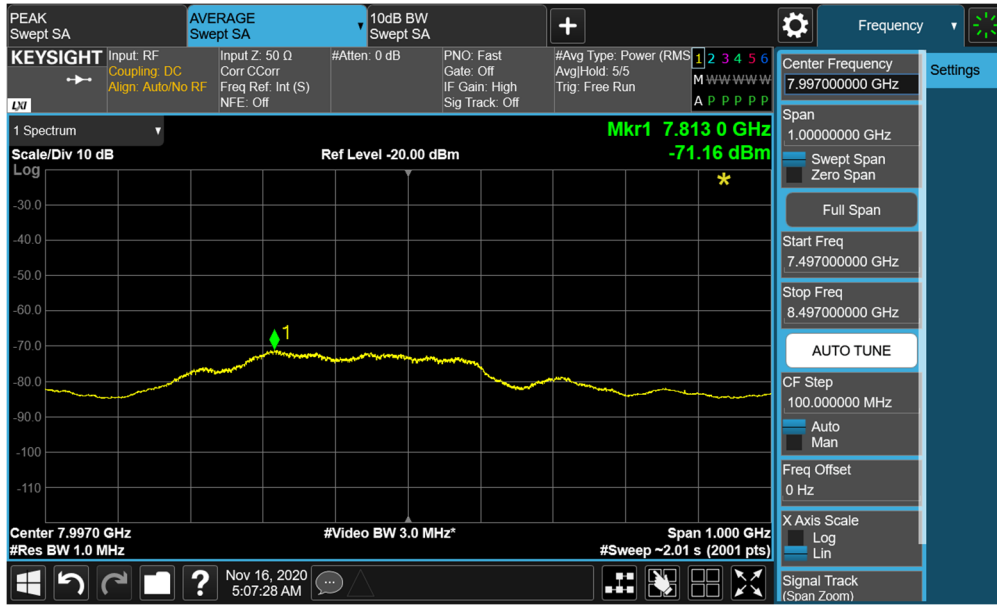


Plot 7-159. UWB Average Power Measurement - ANT 1 - CH.9 – SP3 - HPRF



Plot 7-160. UWB Peak Power Measurement - ANT 2 - CH.9 - SP0 – HPRF

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-161. UWB Average Power Measurement - ANT 2 - CH.9 – SP3 - HPRF

FCC ID: A3LSMG996U	 Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.5 Radiated Measurement Data above 960MHz

§15.519 (c), §15.519(d), §15.209(a)

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

§15.519(c)

Frequency in MHz	EIRP in dBm
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

Table 7-8. Above 960MHz Average Limits

§15.519(d)

Frequency in MHz	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

Table 7-9. Above 960MHz Average Limits

Test Procedures Used

ANSI C63.10-2013

Test Settings

Average EIRP Measurements

1. Analyzer frequency set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz (3kHz for emissions in the GPS bands)
3. VBW = 3MHz (30kHz for the emissions in the GPS bands)
4. Detector = RMS
5. Sweep time = auto couple
6. Trace mode = trace averaging
7. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown test setup photos provided.

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Test Notes

1. All modes of operation and settings (Preamble, Packet Type, etc) were investigated and the worst-case emissions are reported.
2. The RBW for measurements in the GPS Bands were reduced to 3kHz in order to show compliance.
3. Pre-scan plots that are included are not corrected for antenna factors, cable losses, or pre-amplifier gains. The plots are only for the purpose of spurious emission identification.
4. All readings are calibrated by a signal generator with accuracy traceable to the National Institute of Standards and Technology (NIST).
5. AFCL (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB)

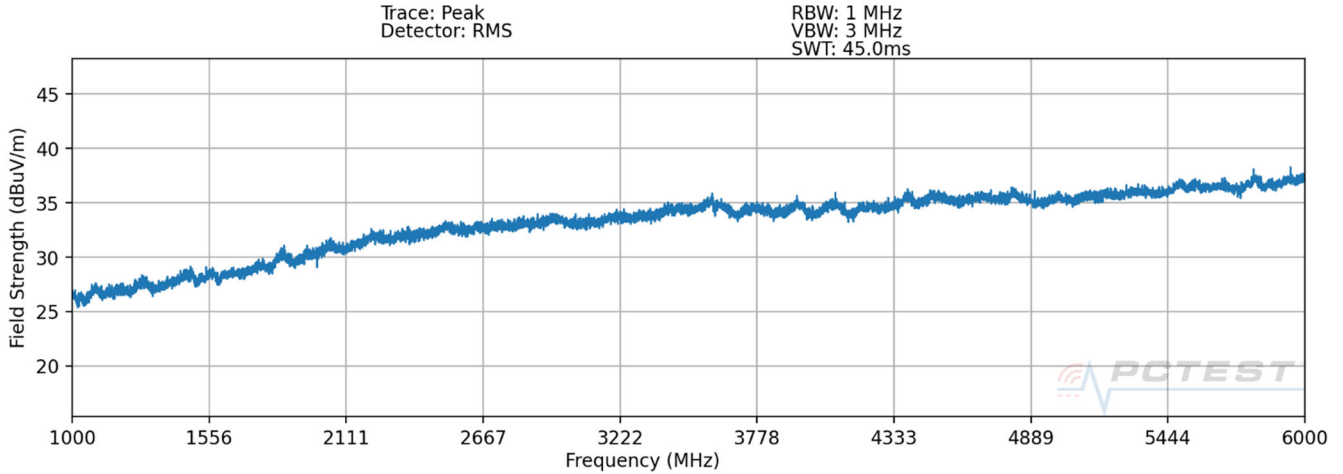
Sample Calculation

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the EIRP RSE level is calculated by applying the additional factors shown below for a test distance of 3 meter

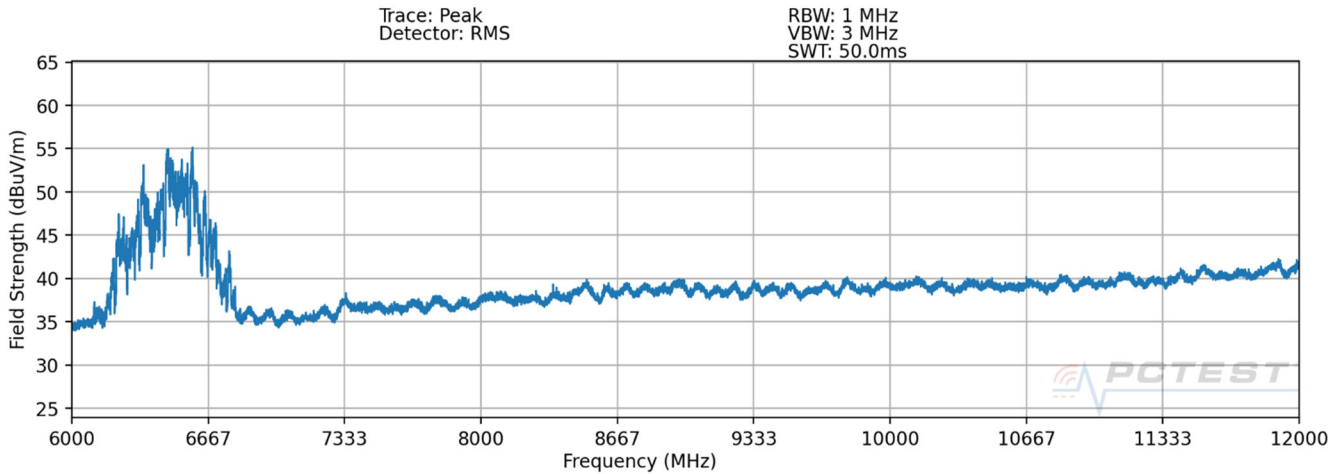
$$\text{RSE EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + \text{AFCL (dB/m)} + 20\text{Log(Dm)} - 104.8$$

FCC ID: A3LSMG996U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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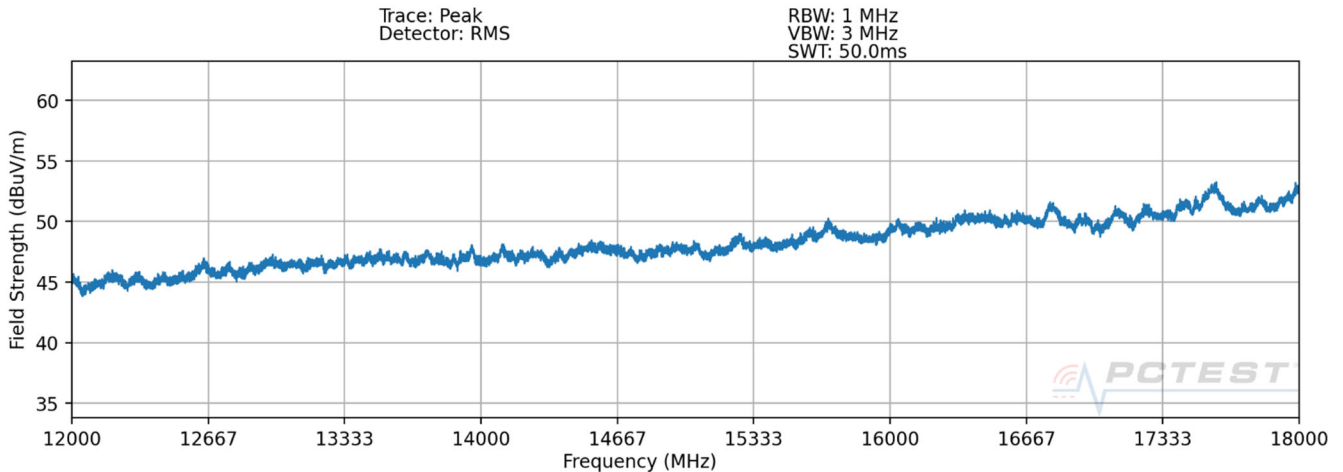
Channel 5 ANTENNA 1:



Plot 7-162. Radiated Spurious Pre-Scan 960 - 6000 MHz - CH.5 - ANT 1



Plot 7-163. Radiated Spurious Pre-Scan 6000 - 12000 MHz - CH.5 - ANT 1



Plot 7-164. Radiated Spurious Pre-Scan 12000 - 18000 MHz - CH.5 - ANT 1

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