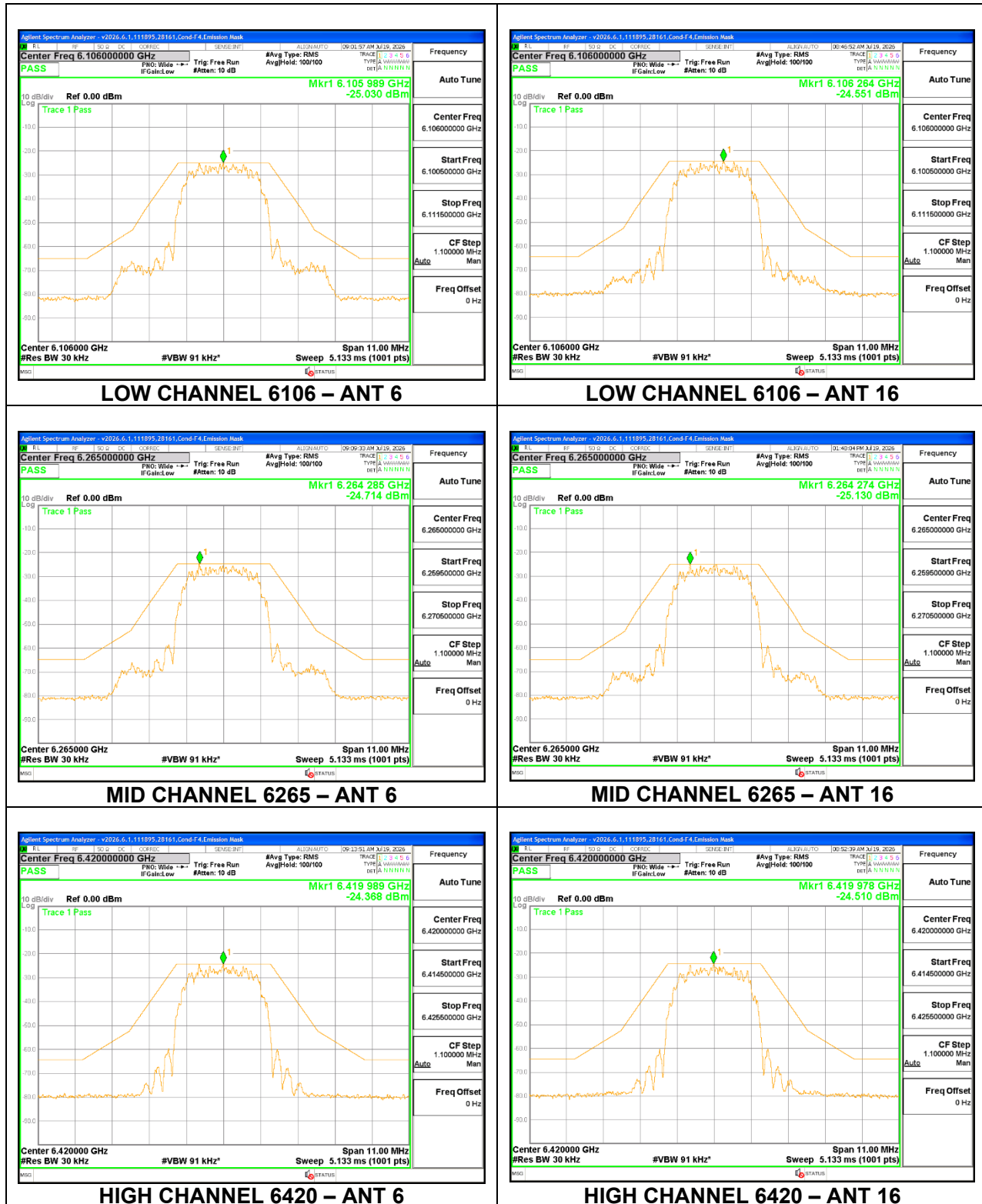
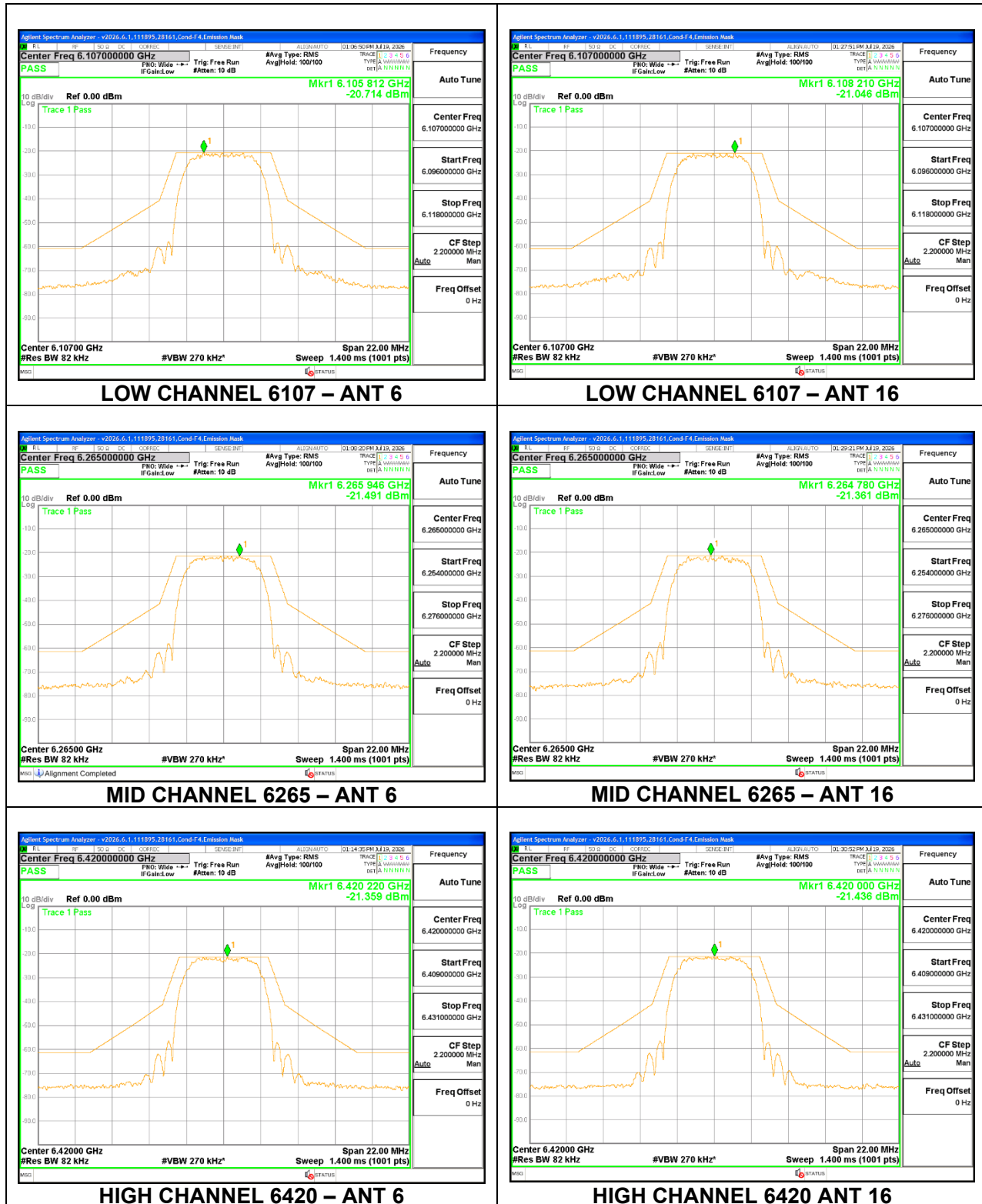
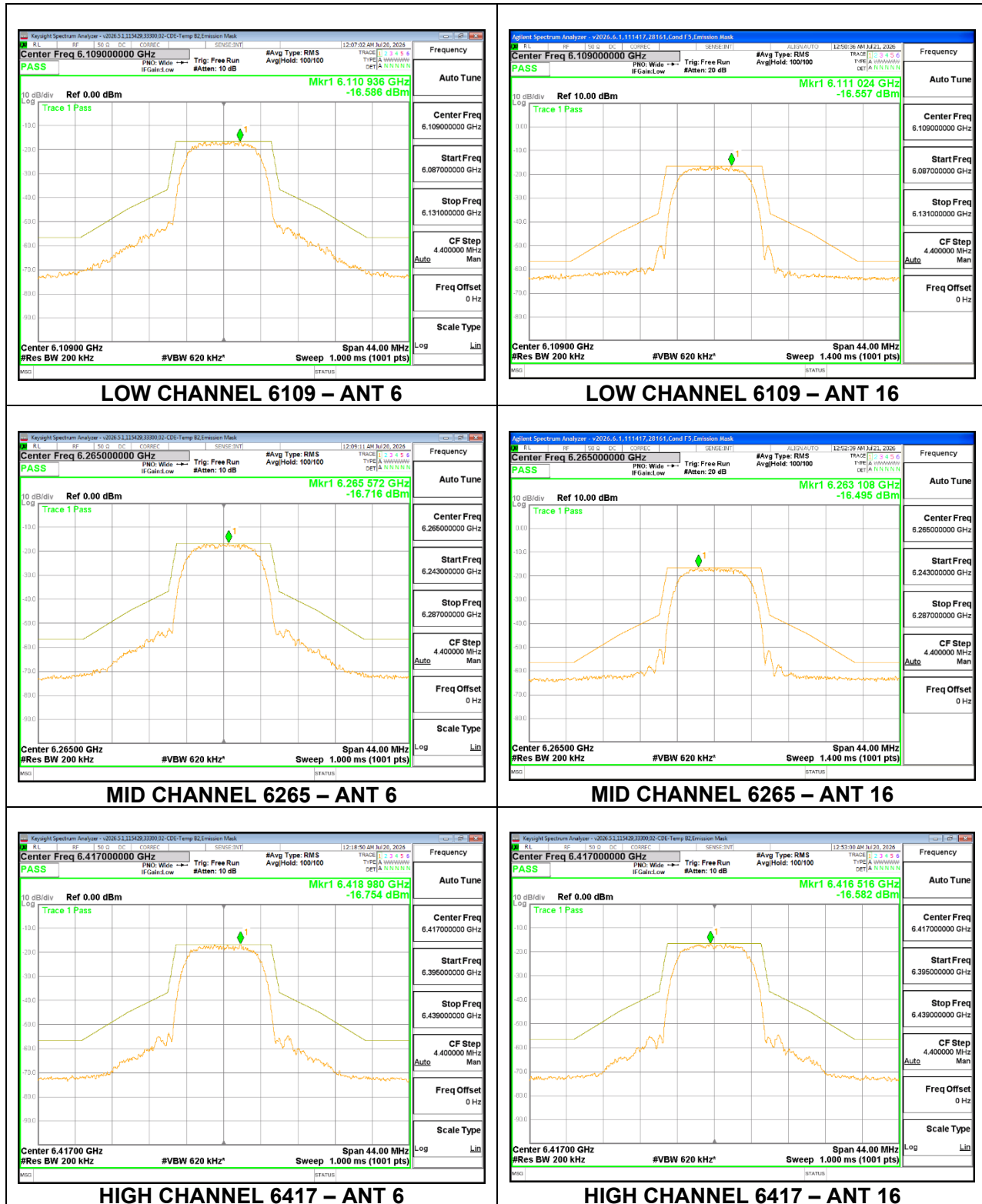


HDR4

HDRPM4

XHDRPL12

10. VLP TPC

LIMITS

FCC §15.407 (d) (10)

(10) Very low power devices operating in the 5.925-6.425 and 6.525-6.875 GHz bands shall employ a transmit power control (TPC) mechanism. A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

RSS 248 4.5.6

a. The maximum e.i.r.p. spectral density shall not exceed -5 dBm/MHz

A very low-power device shall implement transmitter power control in order to have the capability to operate at least 6 dB lower than the maximum e.i.r.p. spectral density limit.

PROCEDURE

This test demonstrates the ability of the device to increase and decrease power by the required 6dB as the RSSI is decreased and increased.

1. Configure EUT and companion device for peer-to-peer communication (refer to section 6.6)
2. Set variable attenuator to 0dB (noise free spectral environment, Low RSSI simulation)
3. Establish a link and start communication between EUT and companion device
4. Capture PSD spectrum analyzer trace (3)
5. Set variable attenuator to 40dB (noisy spectral environment, High RSSI simulation)
6. Capture PSD spectrum analyzer trace (2)
7. Compare the highest PSD from trace (2) to the highest PSD on trace (3) and determine the delta.

SA Settings: 100kHz RBW/ 300kHz VBW

Span: 1.5MHz

Sweep: 1ms, max hold enabled for 100 sweeps with rms detector enabled.

Set up - Refer to Section 6.6. EUT was set to HDR4 hopping low power mode.

Companion device used for testing only supports HDR4 IPA hopping mode thus that is the mode used for testing.

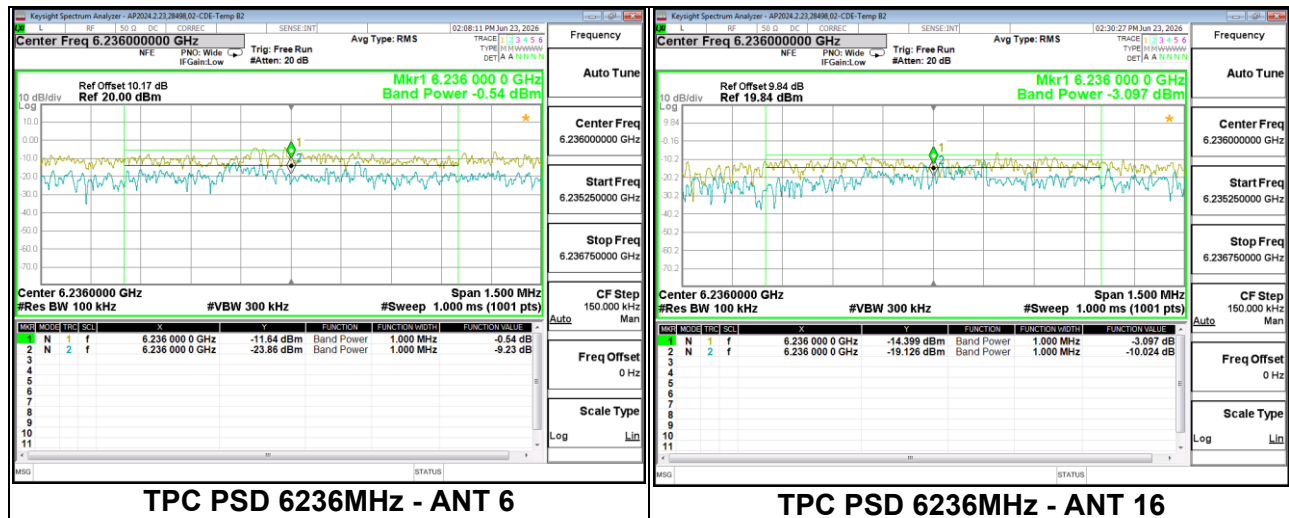
RESULTS

Mode	Antenna 6					Antenna 16				
Frequency (MHz)	Highest Measured PSD EIRP (dBm/MHz)	Trace 2 EIRP PSD (dBm/MHz)	Trace 3 EIRP PSD (dBm/MHz)	Delta (dB)	High RSSI PSD EIRP (dBm/MHz)	Highest Measured PSD EIRP (dBm/MHz)	Trace 2 EIRP PSD (dBm/MHz)	Trace 3 EIRP PSD (dBm/MHz)	Delta (dB)	High RSSI PSD EIRP (dBm/MHz)
6236	-6.144	-0.540	-9.230	8.69	-14.83	-7.747	-3.097	-10.024	6.93	-14.67

For the TPC checks the device is operating in its normal (frequency hopping mode). Due to the frequency hopping operations, capturing the absolute rms PSD values is impractical. To show that output power is reduced with the high RSSI to a level at or below -11dBm/MHz the delta between the high RSSI and low RSSI PSD levels measured with the device hopping is applied to the measured maximum PSD for HDR4 from section 9.3.1 to show that the PSD at the high RSSI level is at or below -11dBm/MHz. The relative measurements (with the device hopping) are made following ANSI C63.10 section 12.6(e) (RBW < 1MHz and integration over 1MHz) at the center of the channel to reduce the impact from adjacent channels.

The device is compliant because when TPC is on the PSD is less than -11dBm/MHz.

Note: Testing was performed on SISO for BT UNII-5 TPC certification. Please refer to the operation description document regarding BT TxBF TPC.

VLP TPC POWER LEVEL REDUCTION

11. RADIATED TEST RESULTS

LIMITS

FCC §15.35(b)
 FCC §15.205 Restrict bands
 §15.209 and FCC §15.407(b)(6) -Un-Restricted bands

RSS-GEN 8.1
 RSS-GEN 8.9 Un-Restricted bands
 RSS-GEN 8.10 Restrict bands

RSS 248 Issue 3 section 4.6.2a

Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27dBm/MHz rms and -7dBm/MHz Peak.

General field strength limits at frequencies above 30 MHz;

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans from 1 – 18 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 6 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table), using the free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to $Y - 51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

RESULTS

11.1. TRANSMITTER OUTSIDE 5.925 - 7.125 GHz, 1- 18GHz**11.1.1. UNII-5 BAND SISO MODE – BANDEDGE – HIGH POWER**

UNII-5 (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBm)	Det	ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Correct Reading (dBm)	Avg Limit (dBm)	Avg Margin (dB)	Pk Limit (dBm)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BDR	6106	6	5.925	-51.25	Pk	35.1	11.8	0	-34.73	-39.08	-	-	-7	-32.08	286	131	H
			5.704267	-48.19	Pk	34.8	11.8	0	-35.03	-36.62	-	-	-7	-29.62	286	131	H
			5.925	-61.72	RMS	35.1	11.8	1.16	-34.73	-48.39	-27	-21.39	-	-	286	131	H
			5.910135	-60.67	RMS	35.1	11.8	1.16	-34.77	-47.38	-27	-20.38	-	-	286	131	H
			5.925	-51.25	Pk	35.1	11.8	0	-34.73	-39.08	-	-	-7	-32.08	341	148	V
			5.910268	-49.04	Pk	35.1	11.8	0	-34.78	-36.92	-	-	-7	-29.92	341	148	V
			5.925	-62.11	RMS	35.1	11.8	1.16	-34.73	-48.78	-27	-21.78	-	-	341	148	V
			5.892068	-60.83	RMS	35.1	11.8	1.16	-34.77	-47.54	-27	-20.54	-	-	341	148	V
		16	5.925	-50.47	Pk	35.1	11.8	0	-34.73	-38.3	-	-	-7	-31.3	270	210	H
			5.877468	-48.49	Pk	35.1	11.8	0	-34.78	-36.37	-	-	-7	-29.37	270	210	H
			5.925	-61.27	RMS	35.1	11.8	1.16	-34.73	-47.94	-27	-20.94	-	-	270	210	H
			5.915135	-60.71	RMS	35.1	11.8	1.16	-34.73	-47.38	-27	-20.38	-	-	270	210	H
			5.925	-50.17	Pk	35.1	11.8	0	-34.73	-38	-	-	-7	-31	201	180	V
			5.889668	-49.06	Pk	35.1	11.8	0	-34.7	-36.86	-	-	-7	-29.86	201	180	V
			5.925	-61.76	RMS	35.1	11.8	1.16	-34.73	-48.43	-27	-21.43	-	-	201	180	V
			5.880535	-60.61	RMS	35.1	11.8	1.16	-34.85	-47.4	-27	-20.4	-	-	201	180	V
LE1M	6106	6	5.925	-51.2	Pk	35.1	11.8	0	-34.73	-39.03	-	-	-7	-32.03	201	180	H
			5.913601	-48.84	Pk	35.1	11.8	0	-34.78	-36.72	-	-	-7	-29.72	201	180	H
			5.925	-62.44	RMS	35.1	11.8	0.72	-34.73	-49.55	-27	-22.55	-	-	201	180	H
			5.918201	-60.84	RMS	35.1	11.8	0.72	-34.65	-47.87	-27	-20.87	-	-	201	180	H
			5.925	-51.58	Pk	35.1	11.8	0	-34.73	-39.41	-	-	-7	-32.41	3	164	V
			5.918268	-48.54	Pk	35.1	11.8	0	-34.65	-36.29	-	-	-7	-29.29	3	164	V
			5.925	-61.94	RMS	35.1	11.8	0.72	-34.73	-49.05	-27	-22.05	-	-	3	164	V
			5.879001	-60.44	RMS	35.1	11.8	0.72	-34.82	-47.64	-27	-20.64	-	-	3	164	V
		16	5.925	-50.86	Pk	35.1	11.8	0	-34.73	-38.69	-	-	-7	-31.69	267	200	H
			5.6954	-47.96	Pk	34.7	11.8	0	-34.86	-36.32	-	-	-7	-29.32	267	200	H
			5.925	-61.72	RMS	35.1	11.8	0.72	-34.73	-48.83	-27	-21.83	-	-	267	200	H
			5.873601	-60.59	RMS	35.1	11.8	0.72	-34.7	-47.67	-27	-20.67	-	-	267	200	H
			5.925	-52.18	Pk	35.1	11.8	0	-34.73	-40.01	-	-	-7	-33.01	202	181	V
			5.889735	-48.53	Pk	35.1	11.8	0	-34.7	-36.33	-	-	-7	-29.33	202	181	V
			5.925	-62.22	RMS	35.1	11.8	0.72	-34.73	-49.33	-27	-22.33	-	-	202	181	V
			5.885201	-60.78	RMS	35.1	11.8	0.72	-34.72	-47.88	-27	-20.88	-	-	202	181	V
LE2M	6106	6	5.925	-52.93	Pk	35.2	11.8	0	-30.62	-36.55	-	-	-7	-29.55	33	326	H
			5.841401	-50.89	Pk	35	11.8	0	-30.48	-34.57	-	-	-7	-27.57	33	326	H
			5.925	-64.06	RMS	35.2	11.8	2.46	-30.62	-45.22	-27	-18.22	-	-	33	326	H
			5.909068	-62.39	RMS	35.2	11.8	2.46	-30.67	-43.6	-27	-16.6	-	-	33	326	H
			5.925	-52.1	Pk	35.2	11.8	0	-30.62	-35.72	-	-	-7	-28.72	7	118	V
			5.880668	-50.76	Pk	35.1	11.8	0	-30.59	-34.45	-	-	-7	-27.45	7	118	V
			5.925	-63.69	RMS	35.2	11.8	2.46	-30.62	-44.85	-27	-17.85	-	-	7	118	V
			5.838868	-62.39	RMS	35	11.8	2.46	-30.43	-43.56	-27	-16.56	-	-	7	118	V
		16	5.925	-52.62	Pk	35.2	11.8	0	-30.62	-36.24	-	-	-7	-29.24	281	211	H
			5.886668	-50.35	Pk	35.1	11.8	0	-30.49	-33.94	-	-	-7	-26.94	281	211	H
			5.925	-63.45	RMS	35.2	11.8	2.46	-30.62	-44.61	-27	-17.61	-	-	281	211	H
			5.889068	-62.54	RMS	35.1	11.8	2.46	-30.5	-43.68	-27	-16.68	-	-	281	211	H
			5.925	-52.37	Pk	35.2	11.8	0	-30.62	-35.99	-	-	-7	-28.99	214	193	V
			5.924668	-50.4	Pk	35.2	11.8	0	-30.62	-34.02	-	-	-7	-27.02	214	193	V
			5.925	-63.13	RMS	35.2	11.8	2.46	-30.62	-44.29	-27	-17.29	-	-	214	193	V
			5.919668	-62.52	RMS	35.2	11.8	2.46	-30.67	-43.73	-27	-16.73	-	-	214	193	V
HDT4	6106	6	5.925	-50.8	Pk	35.1	11.8	0	-34.73	-38.63	-	-	-7	-31.63	30	102	H
			5.924668	-49.18	Pk	35.1	11.8	0	-34.72	-37	-	-	-7	-30	30	102	H
			5.925	-60.92	RMS	35.1	11.8	0.3	-34.73	-48.45	-27	-21.45	-	-	30	102	H
			5.873668	-60.73	RMS	35.1	11.8	0.3	-34.7	-48.23	-27	-21.23	-	-	30	102	H
			5.925	-50.84	Pk	35.1	11.8	0	-34.73	-38.67	-	-	-7	-31.67	11	157	V
			5.874935	-48.38	Pk	35.1	11.8	0	-34.71	-36.19	-	-	-7	-29.19	11	157	V
			5.925	-61.77	RMS	35.1	11.8	0.3	-34.73	-49.3	-27	-22.3	-	-	11	157	V
			5.919335	-60.84	RMS	35.1	11.8	0.3	-34.64	-48.28	-27	-21.28	-	-	11	157	V
		16	5.925	-50.87	Pk	35.1	11.8	0	-34.73	-38.7	-	-	-7	-31.7	278	196	H
			5.7096	-47.78	Pk	34.8	11.8	0	-35.03	-36.21	-	-	-7	-29.21	278	196	H
			5.925	-61.43	RMS	35.1	11.8	0.3	-34.73	-48.96	-27	-21.96	-	-	278	196	H
			5.905135	-60.62	RMS	35.1	11.8	0.3	-34.69	-48.11	-27	-21.11	-	-	278	196	H
			5.925	-51	Pk	35.1	11.8	0	-34.73	-38.83	-	-	-7	-31.83	207	180	V
			5.849734	-47.95	Pk	35	11.8	0	-34.95	-36.1	-	-	-7	-29.1	207	180	V
			5.925	-62.39	RMS	35.1	11.8	0.3	-34.73	-49.92	-27	-22.92	-	-	207	180	V
			5.884535	-60.68	RMS	35.1	11.8	0.3	-34.74	-48.22	-27	-21.22	-	-	207	180	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

UNII-5 (SISO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBm)	Det	ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Correct Reading (dBm)	Avg Limit (dBm)	Avg Margin (dB)	Pk Limit (dBm)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	6106	6	5.925	-50.75	Pk	35.1	11.8	0	-34.73	-38.58	-	-	-7	-31.58	125	132	H
			5.901201	-48.24	Pk	35.1	11.8	0	-34.74	-36.08	-	-	-7	-29.08	125	132	H
			5.925	-62.51	RMS	35.1	11.8	1.08	-34.73	-49.26	-27	-22.26	-	-	125	132	H
			5.879668	-60.52	RMS	35.1	11.8	1.08	-34.83	-47.37	-27	-20.37	-	-	125	132	H
			5.925	-50.81	Pk	35.1	11.8	0	-34.73	-38.64	-	-	-7	-31.64	1	183	V
			5.762734	-47.35	Pk	34.9	11.8	0	-35.04	-35.69	-	-	-7	-28.69	1	183	V
		16	5.925	-61.97	RMS	35.1	11.8	1.08	-34.73	-48.72	-27	-21.72	-	-	1	183	V
			5.868868	-60.49	RMS	35.1	11.8	1.08	-34.82	-47.33	-27	-20.33	-	-	1	183	V
			5.925	-51.19	Pk	35.1	11.8	0	-34.73	-39.02	-	-	-7	-32.02	269	110	H
			5.896001	-48.69	Pk	35.1	11.8	0	-34.85	-36.64	-	-	-7	-29.64	269	110	H
			5.925	-60.96	RMS	35.1	11.8	1.08	-34.73	-47.71	-27	-20.71	-	-	269	110	H
			5.882201	-60.53	RMS	35.1	11.8	1.08	-34.85	-47.4	-27	-20.4	-	-	269	110	H
			5.925	-51.42	Pk	35.1	11.8	0	-34.73	-39.25	-	-	-7	-32.25	169	346	V
			5.748867	-47.61	Pk	34.8	11.8	0	-35.02	-36.03	-	-	-7	-29.03	169	346	V
			5.925	-62.08	RMS	35.1	11.8	1.08	-34.73	-48.83	-27	-21.83	-	-	169	346	V
			5.902468	-60.93	RMS	35.1	11.8	1.08	-34.7	-47.65	-27	-20.65	-	-	169	346	V
HDRPM4	6107	6	5.925	-51.05	Pk	35.2	11.8	0	-30.62	-34.67	-	-	-7	-27.67	59	280	H
			5.908668	-50.37	Pk	35.2	11.8	0	-30.67	-34.04	-	-	-7	-27.04	59	280	H
			5.925	-63.89	RMS	35.2	11.8	0.31	-30.62	-47.2	-27	-20.2	-	-	59	280	H
			5.900201	-62.12	RMS	35.1	11.8	0.31	-30.58	-45.49	-27	-18.49	-	-	59	280	H
			5.925	-52.5	Pk	35.2	11.8	0	-30.62	-36.12	-	-	-7	-29.12	2	116	V
			5.911201	-50.14	Pk	35.2	11.8	0	-30.68	-33.82	-	-	-7	-26.82	2	116	V
		16	5.925	-62.49	RMS	35.2	11.8	0.31	-30.62	-45.8	-27	-18.8	-	-	2	116	V
			5.922935	-62.38	RMS	35.2	11.8	0.31	-30.61	-45.68	-27	-18.68	-	-	2	116	V
			5.925	-49.28	Pk	35.1	11.8	0	-37.99	-40.37	-	-	-7	-33.37	281	203	H
			5.886601	-47.11	Pk	35	11.8	0	-38.14	-38.45	-	-	-7	-31.45	281	203	H
			5.925	-60.31	RMS	35.1	11.8	0.31	-37.99	-51.09	-27	-24.09	-	-	281	203	H
			5.901201	-59.04	RMS	35	11.8	0.31	-38.13	-50.06	-27	-23.06	-	-	281	203	H
			5.925	-49.68	Pk	35.1	11.8	0	-37.99	-40.77	-	-	-7	-33.77	221	183	V
			5.921868	-47.08	Pk	35.1	11.8	0	-38.01	-38.19	-	-	-7	-31.19	221	183	V
			5.925	-60.45	RMS	35.1	11.8	0.31	-37.99	-51.23	-27	-24.23	-	-	221	183	V
			5.879468	-59.17	RMS	35	11.8	0.31	-38.13	-50.19	-27	-23.19	-	-	221	183	V
XHDRPL12	6109	6	5.925	-51.42	Pk	35.6	11.8	0	-36.66	-40.68	-	-	-7	-33.68	60	227	H
			5.875668	-48.27	Pk	35.4	11.8	0	-36.69	-37.76	-	-	-7	-30.76	60	227	H
			5.925	-61.44	RMS	35.6	11.8	0.5	-36.66	-50.2	-27	-23.2	-	-	60	227	H
			5.887868	-60.68	RMS	35.5	11.8	0.5	-36.67	-49.55	-27	-22.55	-	-	60	227	H
			5.925	-51.18	Pk	35.6	11.8	0	-36.66	-40.44	-	-	-7	-33.44	7	118	V
			5.855201	-48.57	Pk	35.3	11.8	0	-36.66	-38.13	-	-	-7	-31.13	7	118	V
		16	5.925	-62.1	RMS	35.6	11.8	0.5	-36.66	-50.86	-27	-23.86	-	-	7	118	V
			5.848001	-60.35	RMS	35.3	11.8	0.5	-36.7	-49.45	-27	-22.45	-	-	7	118	V
			5.925	-50.1	Pk	35.1	11.8	0	-37.99	-41.19	-	-	-7	-34.19	278	205	H
			5.820801	-46.78	Pk	34.8	11.8	0	-38.31	-38.49	-	-	-7	-31.49	278	205	H
			5.925	-60.44	RMS	35.1	11.8	0.5	-37.99	-51.03	-27	-24.03	-	-	278	205	H
			5.865468	-59.13	RMS	35	11.8	0.5	-38.14	-49.97	-27	-22.97	-	-	278	205	H
			5.925	-49.6	Pk	35.1	11.8	0	-37.99	-40.69	-	-	-7	-33.69	221	200	V
			5.829534	-46.98	Pk	34.9	11.8	0	-38.3	-38.58	-	-	-7	-31.58	221	200	V
			5.925	-60.74	RMS	35.1	11.8	0.5	-37.99	-51.33	-27	-24.33	-	-	221	200	V
			5.914201	-59.5	RMS	35.1	11.8	0.5	-38.06	-50.16	-27	-23.16	-	-	221	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

11.1.2. UNII-5 BAND MIMO MODE – BANDEDGE – HIGH POWER

UNII-5 (MIMO)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBm)	Det	ACF (dB/m)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Correct Reading (dBm)	Avg Limit (dBm)	Avg Margin (dB)	Pk Limit (dBm)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BDR	6106	6 + 16	5.925	-51.32	Pk	35.6	11.8	0	-36.66	-40.58	-	-	-7	-33.58	301	114	H
			5.869468	-48.4	Pk	35.3	11.8	0	-36.64	-37.94	-	-	-7	-30.94	301	114	H
			5.925	-62.27	RMS	35.6	11.8	1.16	-36.66	-50.37	-27	-23.37	-	-	301	114	H
			5.924868	-60.75	RMS	35.6	11.8	1.16	-36.66	-48.85	-27	-21.85	-	-	301	114	H
			5.925	-51.55	Pk	35.6	11.8	0	-36.66	-40.81	-	-	-7	-33.81	139	116	V
			5.853468	-48.18	Pk	35.3	11.8	0	-36.64	-37.72	-	-	-7	-30.72	139	116	V
			5.925	-61.97	RMS	35.6	11.8	1.16	-36.66	-50.07	-27	-23.07	-	-	139	116	V
			5.852668	-60.37	RMS	35.3	11.8	1.16	-36.67	-48.78	-27	-21.78	-	-	139	116	V
LE1M	6106	6 + 16	5.925	-51.47	Pk	35.6	11.8	0	-36.66	-40.73	-	-	-7	-33.73	300	102	H
			5.6922	-47.93	Pk	34.9	11.8	0	-36.83	-38.06	-	-	-7	-31.06	300	102	H
			5.925	-61.52	RMS	35.6	11.8	0.72	-36.66	-50.06	-27	-23.06	-	-	300	102	H
			5.905268	-60.79	RMS	35.6	11.8	0.72	-36.71	-49.38	-27	-22.38	-	-	300	102	H
			5.925	-50.76	Pk	35.6	11.8	0	-36.66	-40.02	-	-	-7	-33.02	137	119	V
			5.923401	-47.99	Pk	35.6	11.8	0	-36.68	-37.27	-	-	-7	-30.27	137	119	V
			5.925	-61.84	RMS	35.6	11.8	0.72	-36.66	-50.38	-27	-23.38	-	-	137	119	V
			5.901535	-60.71	RMS	35.6	11.8	0.72	-36.69	-49.28	-27	-22.28	-	-	137	119	V
LE2M	6106	6 + 16	5.925	-51.25	Pk	35.6	11.8	0	-36.66	-40.51	-	-	-7	-33.51	6	103	H
			5.924668	-49.08	Pk	35.6	11.8	0	-36.67	-38.35	-	-	-7	-31.35	6	103	H
			5.925	-61.62	RMS	35.6	11.8	2.46	-36.66	-48.42	-27	-21.42	-	-	6	103	H
			5.882268	-60.36	RMS	35.4	11.8	2.46	-36.62	-47.32	-27	-20.32	-	-	6	103	H
			5.925	-50.8	Pk	35.6	11.8	0	-36.66	-40.06	-	-	-7	-33.06	133	117	V
			5.870335	-47.84	Pk	35.3	11.8	0	-36.64	-37.38	-	-	-7	-30.38	133	117	V
			5.925	-61.84	RMS	35.6	11.8	2.46	-36.66	-48.64	-27	-21.64	-	-	133	117	V
			5.886335	-60.4	RMS	35.5	11.8	2.46	-36.66	-47.3	-27	-20.3	-	-	133	117	V
HDT4	6106	6 + 16	5.925	-62.08	Pk	35.2	11.8	0	-23.48	-38.56	-	-	-7	-31.56	168	238	H
			5.889801	-60.9	Pk	35.2	11.8	0	-23.41	-37.31	-	-	-7	-30.31	168	238	H
			5.925	-73.44	RMS	35.2	11.8	0.3	-23.48	-49.62	-27	-22.62	-	-	168	238	H
			5.893868	-73.14	RMS	35.2	11.8	0.3	-23.36	-49.2	-27	-22.2	-	-	168	238	H
			5.925	-63	Pk	35.2	11.8	0	-23.48	-39.48	-	-	-7	-32.48	141	189	V
			5.887401	-61.24	Pk	35.2	11.8	0	-23.42	-37.66	-	-	-7	-30.66	141	189	V
			5.925	-73.85	RMS	35.2	11.8	0.3	-23.48	-50.03	-27	-23.03	-	-	141	189	V
			5.881668	-72.7	RMS	35.1	11.8	0.3	-23.37	-48.87	-27	-21.87	-	-	141	189	V
HDR4	6106	6 + 16	5.925	-50.71	Pk	35.6	11.8	0	-36.66	-39.97	-	-	-7	-32.97	298	110	H
			5.837668	-47.82	Pk	35.3	11.8	0	-36.71	-37.43	-	-	-7	-30.43	298	110	H
			5.925	-61.89	RMS	35.6	11.8	1.1	-36.66	-50.05	-27	-23.05	-	-	298	110	H
			5.916601	-60.63	RMS	35.6	11.8	1.1	-36.69	-48.82	-27	-21.82	-	-	298	110	H
			5.925	-50.23	Pk	35.6	11.8	0	-36.66	-39.49	-	-	-7	-32.49	138	107	V
			5.719134	-48.18	Pk	34.9	11.8	0	-36.84	-38.32	-	-	-7	-31.32	138	107	V
			5.925	-61.58	RMS	35.6	11.8	1.1	-36.66	-49.74	-27	-22.74	-	-	138	107	V
			5.909001	-60.82	RMS	35.6	11.8	1.1	-36.67	-48.99	-27	-21.99	-	-	138	107	V
HDRPM4	6107	6 + 16	5.925	-51.16	Pk	35.2	11.8	0	-36.01	-40.17	-	-	-7	-33.17	161	317	H
			5.762401	-47.24	Pk	35	11.8	0	-36.42	-36.86	-	-	-7	-29.86	161	317	H
			5.925	-61.1	RMS	35.2	11.8	0.31	-36.01	-49.8	-27	-22.8	-	-	161	317	H
			5.852668	-59.64	RMS	35.1	11.8	0.31	-36.14	-48.57	-27	-21.57	-	-	161	317	H
			5.925	-51.36	Pk	35.2	11.8	0	-36.01	-40.37	-	-	-7	-33.37	257	188	V
			5.732734	-46.72	Pk	34.9	11.8	0	-36.58	-36.6	-	-	-7	-29.6	257	188	V
			5.925	-61.41	RMS	35.2	11.8	0.31	-36.01	-50.11	-27	-23.11	-	-	257	188	V
			5.838468	-59.7	RMS	35.1	11.8	0.31	-36.14	-48.63	-27	-21.63	-	-	257	188	V
XHDRPL12	6109	6 + 16	5.925	-49.96	Pk	35.2	11.8	0	-36.01	-38.97	-	-	-7	-31.97	156	349	H
			5.892068	-47.58	Pk	35.1	11.8	0	-36.16	-36.84	-	-	-7	-29.84	156	349	H
			5.925	-60.57	RMS	35.2	11.8	0.5	-36.01	-49.08	-27	-22.08	-	-	156	349	H
			5.867535	-59.72	RMS	35.1	11.8	0.5	-36.1	-48.42	-27	-21.42	-	-	156	349	H
			5.925	-51.26	Pk	35.2	11.8	0	-36.01	-40.27	-	-	-7	-33.27	255	296	V
			5.768934	-47.82	Pk	35	11.8	0	-36.39	-37.41	-	-	-7	-30.41	255	296	V
			5.925	-60.89	RMS	35.2	11.8	0.5	-36.01	-49.4	-27	-22.4	-	-	255	296	V
			5.867335	-59.89	RMS	35.1	11.8	0.5	-36.11	-48.6	-27	-21.6	-	-	255	296	V

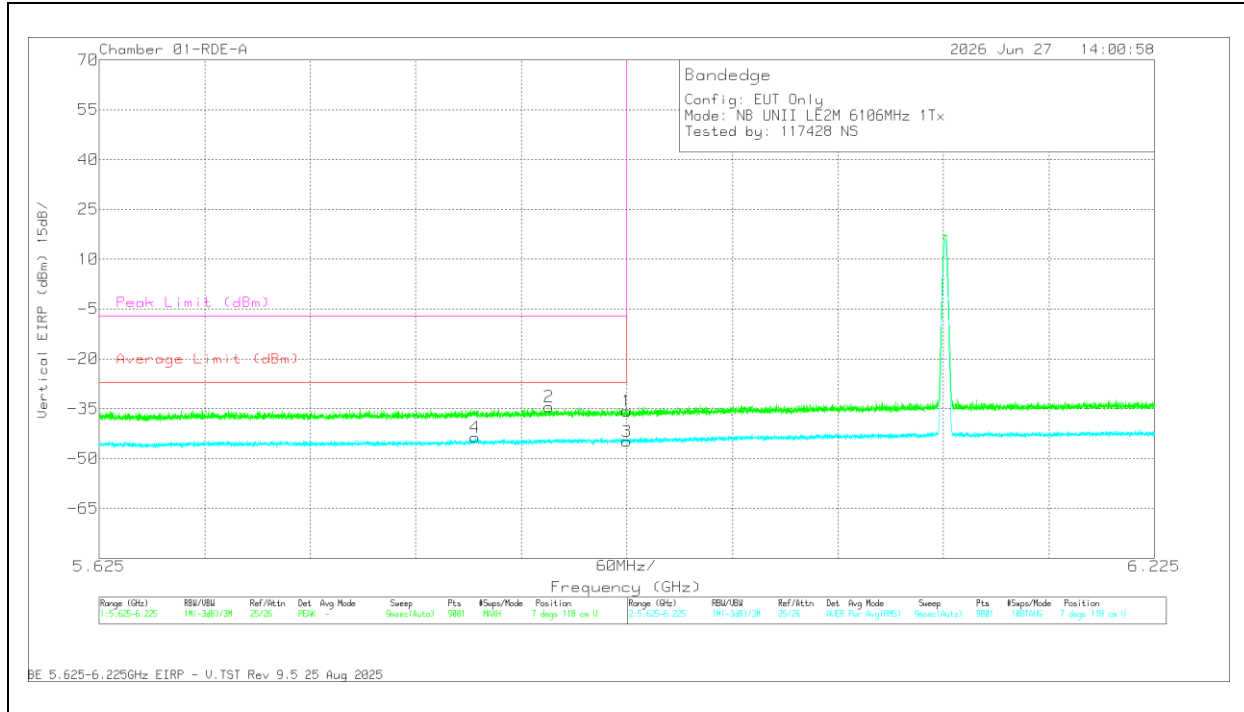
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

WORST-CASE BANDEDGE (LOW CHANNEL / 6106MHz) **SISO ANT 6 HIGH POWER LE2M MODE:**

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	200784 AGF (dBm)	Conversion Factor (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading EIRP (dBm)	Average Limit (dBm)	Margin (dB)	Peak Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.925	-52.1	PK	35.2	11.8	0	-30.62	-35.72	-	-	-7	-28.72	7	118	V
2	5.880668	-50.76	PK	35.1	11.8	0	-30.59	-34.45	-	-	-7	-27.45	7	118	V
3	5.925	-63.69	RMS	35.2	11.8	2.46	-30.62	-44.85	-27	-17.85	-	-	7	118	V
4	5.838868	-62.39	RMS	35	11.8	2.46	-30.43	-43.56	-27	-16.56	-	-	7	118	V

Pk - Peak detector
 RMS - RMS detection

11.1.3. UNII-5 BAND MIMO TXBF MODE - SPURIOUS EMISSIONS – HIGH POWER

UNII-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cb/ Fltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BDR	6106	6 + 16	* 12.21279	53.65	PK-U	38.9	0	-41.7	50.85	-	-	74	-23.15	0	101	H
			* 12.238156	41.89	ADR	38.9	1.16	-41.86	40.09	54	-13.91	-	-	0	101	H
			* 12.227797	53.55	PK-U	38.9	0	-41.82	50.63	-	-	74	-23.37	0	200	V
			* 12.229689	41.68	ADR	38.9	1.16	-41.83	39.91	54	-14.09	-	-	0	200	V
			3.035717	44.08	ADR	32.9	1.16	-45.56	32.58	68.2	-35.62	-	-	0	200	V
			3.038549	55.64	PK-U	33	0	-45.61	43.03	-	-	88.2	-45.17	0	101	H
			3.042717	43.93	ADR	33	1.16	-45.61	32.48	68.2	-35.72	-	-	0	101	H
			3.065029	55.8	PK-U	33	0	-45.56	43.24	-	-	88.2	-44.96	0	200	V
			17.543171	41.29	ADR	41.6	1.16	-39.22	44.83	68.2	-23.37	-	-	0	200	V
			17.546502	41.45	ADR	41.6	1.16	-39.23	44.98	68.2	-23.22	-	-	0	101	H
			17.555105	53.38	PK-U	41.6	0	-39.59	55.39	-	-	88.2	-32.81	0	200	V
			17.558881	53.41	PK-U	41.6	0	-39.63	55.38	-	-	88.2	-32.82	0	101	H
	6265	6 + 16	* 12.527666	54.16	PK-U	39	0	-41.32	51.84	-	-	74	-22.16	0	101	H
			* 12.548424	41.34	ADR	39.1	1.16	-41.58	40.02	54	-13.98	-	-	0	101	H
			* 12.528682	53.32	PK-U	39	0	-41.32	51	-	-	74	-23	0	200	V
			* 12.522695	41.22	ADR	39	1.16	-41.37	40.01	54	-13.99	-	-	0	200	V
			3.125131	56.09	PK-U	33.1	0	-45.39	43.8	-	-	88.2	-44.4	0	101	V
			3.125985	55.95	PK-U	33.1	0	-45.4	43.65	-	-	88.2	-44.55	0	101	H
			3.132913	44.06	ADR	33.1	1.16	-45.42	32.9	68.2	-35.3	-	-	0	101	H
			3.133357	43.95	ADR	33.1	1.16	-45.41	32.8	68.2	-35.4	-	-	0	101	V
			17.562894	53.25	PK-U	41.6	0	-39.66	55.19	-	-	88.2	-33.01	0	101	H
			17.566494	53.25	PK-U	41.6	0	-39.88	54.97	-	-	88.2	-33.23	0	200	V
			17.584176	41.61	ADR	41.6	1.16	-39.98	44.39	68.2	-23.81	-	-	0	200	V
			17.590012	41.21	ADR	41.6	1.16	-39.74	44.23	68.2	-23.97	-	-	0	101	H
	6420	6 + 16	* 2.497237	59.68	PK-U	32.4	0	-48.78	43.3	-	-	74	-30.7	360	101	H
			* 2.49669	47.81	ADR	32.4	1.16	-48.79	32.58	54	-21.42	-	-	360	101	H
			* 2.4954	59.19	PK-U	32.4	0	-48.79	42.8	-	-	74	-31.2	360	101	V
			* 2.494089	47.67	ADR	32.4	1.16	-48.79	32.44	54	-21.56	-	-	360	101	V
			* 11.859176	55.13	PK-U	38.7	0	-41.65	52.18	-	-	74	-21.82	360	101	H
			* 11.885721	43.15	ADR	38.7	1.16	-42.06	40.95	54	-13.05	-	-	360	101	H
			* 11.898432	55.39	PK-U	38.7	0	-42.26	51.83	-	-	74	-22.17	360	101	V
			* 11.873643	43.17	ADR	38.7	1.16	-41.59	41.44	54	-12.56	-	-	360	101	V
			1.856471	60.15	PK-U	30.8	0	-48.55	42.4	-	-	88.2	-45.8	360	101	V
			1.859613	48.18	ADR	30.9	1.16	-48.55	31.69	68.2	-36.51	-	-	360	101	V
			1.86043	59.86	PK-U	30.9	0	-48.53	42.23	-	-	88.2	-45.97	360	101	H
			1.861301	48.17	ADR	30.9	1.16	-48.53	31.7	68.2	-36.5	-	-	360	101	H
	LE1M	6106	* 12.197019	43.32	ADR	39	0.72	-42.96	40.08	54	-13.92	-	-	360	101	H
			* 12.204726	55.47	PK-U	39	0	-42.97	51.5	-	-	74	-22.5	360	200	V
			* 12.216229	55.58	PK-U	39	0	-43.16	51.42	-	-	74	-22.58	360	101	H
			* 12.227232	43.42	ADR	39	0.72	-43.17	39.97	54	-14.03	-	-	360	200	V
			* 17.798799	46.27	ADR	41.7	0.72	-42.31	46.38	54	-7.62	-	-	360	101	V
			* 17.80851	58.07	PK-U	41.7	0	-42.32	57.45	-	-	74	-16.55	360	101	V
			* 17.821764	46.26	ADR	41.7	0.72	-42.19	46.49	54	-7.51	-	-	360	101	H
			* 17.823464	58.39	PK-U	41.7	0	-42.14	57.95	-	-	74	-16.05	360	101	H
			* 8.166557	56.3	PK-U	35.8	0	-43.49	48.61	-	-	74	-25.39	360	101	V
			* 8.184959	44.42	ADR	35.8	0.72	-43.17	37.77	54	-16.23	-	-	360	101	H
			* 8.186967	56.7	PK-U	35.8	0	-43.21	49.29	-	-	74	-24.71	360	101	H
			* 8.199561	44.51	ADR	35.8	0.72	-43.34	37.69	54	-16.31	-	-	360	101	V
			* 8.200329	44.49	ADR	35.8	0.72	-43.31	37.7	54	-16.3	-	-	360	101	V
			* 8.201285	56.18	PK-U	35.8	0	-43.34	48.64	-	-	74	-25.36	360	101	V
		6265	* 12.519623	55.97	PK-U	39	0	-43.72	51.25	-	-	74	-22.75	360	101	H
			* 12.521138	56.63	PK-U	39	0	-43.68	51.95	-	-	74	-22.05	360	101	H
			* 12.535269	56.15	PK-U	39	0	-43.67	51.48	-	-	74	-22.52	360	101	H
			* 12.542368	44.29	ADR	39	0.72	-43.69	40.31	54	-13.69	-	-	360	101	H
			* 12.546904	44.31	ADR	39	0.72	-43.63	40.39	54	-13.61	-	-	360	101	H
			* 12.548252	44.2	ADR	39	0.72	-43.62	40.29	54	-13.71	-	-	360	101	H
			16.536726	44.77	ADR	41.2	0.72	-41.74	44.94	68.2	-23.26	-	-	360	199	H
			16.538882	57.52	PK-U	41.2	0	-41.78	56.94	-	-	88.2	-31.26	360	199	H
			16.547881	44.69	ADR	41.2	0.72	-41.81	44.79	68.2	-23.41	-	-	360	101	V
			16.553312	56.64	PK-U	41.2	0	-41.81	56.03	-	-	88.2	-32.17	360	199	H
			16.556368	45	ADR	41.2	0.72	-41.82	45.09	68.2	-23.11	-	-	360	199	H
			16.563515	56.88	PK-U	41.2	0	-41.9	56.18	-	-	88.2	-32.02	360	101	V
			8.825172	44.38	ADR	36.2	0.72	-44.2	37.09	68.2	-31.11	-	-	360	199	V
			8.836627	56.37	PK-U	36.2	0	-44.02	48.55	-	-	88.2	-39.65	360	199	H
			8.862432	55.98	PK-U	36.2	0	-44.26	47.92	-	-	88.2	-40.28	360	199	V
			8.86522	44.66	ADR	36.2	0.72	-44.17	37.4	68.2	-30.8	-	-	360	199	H
	6420	6 + 16	8.651656	55.99	PK-U	36	0	-43.68	48.31	-	-	88.2	-39.89	360	101	V
			8.664518	44.32	ADR	36	0.72	-43.54	37.5	68.2	-30.7	-	-	360	101	H
			8.665022	44.2	ADR	36	0.72	-43.56	37.36	68.2	-30.84	-	-	360	101	V
			8.665738	56.38	PK-U	36	0	-43.52	48.86	-	-	88.2	-39.34	360	101	H
			12.850201	56.53	PK-U	39.3	0	-43.61	52.22	-	-	88.2	-35.98	360	198	H
			12.851501	56.3	PK-U	39.3	0	-43.65	51.95	-	-	88.2	-36.25	360	101	V
			12.852365	44.44	ADR	39.3	0.72	-43.66	40.8	68.2	-27.4	-	-	360	101	V
			12.858444	44.56	ADR	39.3	0.72	-43.63	40.95	68.2	-27.25	-	-	360	198	H
			16.565204	44.6	ADR	41.2	0.72	-41.88	44.64	68.2	-23.56	-	-	360	199	H
			16.566312	44.75	ADR	41.2	0.72	-41.92	44.75	68.2	-23.45	-	-	360	199	V
			16.571632	56.14	PK-U	41.2	0	-42.06	55.28	-	-	88.2	-32.92	360	199	V
			16.574715	56.46	PK-U	41.2	0	-42.08	55.58	-	-	88.2	-32.62	360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

UNI-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Fitr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
LE2M	6106	6 + 16	* 12.193739	55.12	PK-U	39	0	-42.95	51.17	-	-	74	-22.83	1	200	V
			* 12.222572	43.01	ADR	39	2.46	-43.19	41.28	54	-12.72	-	-	1	200	H
			* 12.223272	55.15	PK-U	39	0	-43.22	50.93	-	-	74	-23.07	1	200	H
			* 12.228468	43.12	ADR	39	2.46	-43.17	41.41	54	-12.59	-	-	1	200	V
			* 17.733658	57.23	PK-U	41.6	0	-41.92	56.91	-	-	74	-17.09	1	101	V
			* 17.745645	45.48	ADR	41.6	2.46	-41.6	47.94	54	-6.06	-	-	1	101	V
			* 17.748601	58.28	PK-U	41.6	0	-41.5	58.38	-	-	74	-15.62	1	200	H
			* 17.749045	45.75	ADR	41.6	2.46	-41.54	48.27	54	-5.73	-	-	1	200	H
			* 8.026248	56.05	PK-U	35.8	0	-44.19	47.66	-	-	74	-26.34	1	101	H
			* 8.028716	56.08	PK-U	35.8	0	-44.16	47.72	-	-	74	-26.28	1	101	V
			8.001886	44.11	ADR	35.8	2.46	-44.13	38.24	68.2	-29.96	-	-	1	101	H
			8.002285	44.07	ADR	35.8	2.46	-44.12	38.21	68.2	-29.99	-	-	1	101	V
	6265	6 + 16	* 12.529582	56.4	PK-U	39	0	-43.67	51.73	-	-	74	-22.27	1	101	H
			* 12.543388	44.04	ADR	39	2.46	-43.67	41.83	54	-12.17	-	-	1	101	H
			* 12.543984	44.08	ADR	39	2.46	-43.66	41.88	54	-12.12	-	-	1	200	V
			* 12.544752	56.02	PK-U	39	0	-43.69	51.33	-	-	74	-22.67	1	200	V
			* 17.883583	46.03	ADR	41.7	2.46	-42.47	47.72	54	-6.28	-	-	1	101	H
			* 17.886818	58.36	PK-U	41.7	0	-42.39	57.67	-	-	74	-16.33	1	101	H
			* 17.89069	58.05	PK-U	41.7	0	-42.22	57.53	-	-	74	-16.47	1	200	V
			* 17.900605	46.27	ADR	41.7	2.46	-42.19	48.24	54	-5.76	-	-	1	200	V
			8.000796	44.18	ADR	35.8	2.46	-44.12	38.32	68.2	-29.88	-	-	1	101	H
			8.005863	44.19	ADR	35.8	2.46	-44.17	38.28	68.2	-29.92	-	-	1	101	V
			8.021212	56.6	PK-U	35.8	0	-44.09	48.31	-	-	88.2	-39.89	1	101	V
			8.021917	56.15	PK-U	35.8	0	-44.13	47.82	-	-	88.2	-40.38	1	101	H
	6420	6 + 16	1.97028	58.53	PK-U	31.8	0	-47.42	42.91	-	-	88.2	-45.29	360	200	V
			1.970814	47.04	ADR	31.8	2.46	-47.43	33.87	68.2	-34.33	-	-	360	199	H
			1.971756	58.51	PK-U	31.8	0	-47.44	42.87	-	-	88.2	-45.33	360	199	H
			1.972973	46.92	ADR	31.8	2.46	-47.46	33.72	68.2	-34.48	-	-	360	200	V
			2.964365	44.58	ADR	32.6	2.46	-45.77	33.87	68.2	-34.33	-	-	360	101	V
			2.97273	44.62	ADR	32.6	2.46	-45.78	33.9	68.2	-34.3	-	-	360	101	H
			2.979568	56.36	PK-U	32.7	0	-45.8	43.26	-	-	88.2	-44.94	360	101	V
			2.987764	56.59	PK-U	32.7	0	-45.71	43.58	-	-	88.2	-44.62	360	101	H
			10.048718	42.46	ADR	37.1	2.46	-43.25	38.77	68.2	-29.43	-	-	360	101	V
			10.056969	42.32	ADR	37.1	2.46	-43.02	38.86	68.2	-29.34	-	-	360	200	H
			10.060601	54.09	PK-U	37.1	0	-43.18	48.01	-	-	88.2	-40.19	360	200	H
			10.060865	54.71	PK-U	37.1	0	-43.2	48.61	-	-	88.2	-39.59	360	101	V
	6106	6 + 16	* 2.688858	59.43	PK-U	32.4	0	-48.6	43.23	-	-	88.2	-44.97	0	199	H
			* 2.688765	47.53	ADR	32.4	0.3	-48.6	31.63	68.2	-36.57	-	-	0	199	H
			* 2.676111	60.18	PK-U	32.4	0	-48.65	43.93	-	-	88.2	-44.27	0	101	V
			* 2.689376	47.77	ADR	32.4	0.3	-48.6	31.87	68.2	-36.33	-	-	0	101	V
			* 11.895044	54.96	PK-U	38.7	0	-42.19	51.47	-	-	74	-22.53	0	199	H
			* 11.883594	43.09	ADR	38.7	0.3	-41.98	40.11	54	-13.89	-	-	0	199	H
			* 11.893309	55.38	PK-U	38.7	0	-42.11	51.97	-	-	74	-22.03	0	101	V
			* 11.869359	43.27	ADR	38.7	0.3	-41.54	40.73	54	-13.27	-	-	0	101	V
			2.503391	47.69	ADR	32.4	0.3	-48.75	31.64	68.2	-36.56	-	-	0	199	V
			2.504898	59.18	PK-U	32.4	0	-48.76	42.82	-	-	88.2	-45.38	0	199	H
			2.523011	61.1	PK-U	32.3	0	-48.56	44.84	-	-	88.2	-43.36	0	199	V
			2.54152	47.56	ADR	32.3	0.3	-48.65	31.51	68.2	-36.69	-	-	0	199	H
	6265	6 + 16	* 10.752435	56.29	PK-U	37.8	0	-43.77	50.32	-	-	74	-23.68	360	101	H
			* 10.758411	44.62	ADR	37.8	0.3	-43.65	39.07	54	-14.93	-	-	360	101	H
			* 10.778933	56.44	PK-U	37.8	0	-43.29	50.95	-	-	74	-23.05	360	101	V
			* 10.761002	44.75	ADR	37.8	0.3	-43.58	39.27	54	-14.73	-	-	360	101	V
			2.502267	59.31	PK-U	32.4	0	-48.78	42.93	-	-	88.2	-45.27	360	101	H
			2.503062	47.46	ADR	32.4	0.3	-48.77	31.39	68.2	-36.81	-	-	360	101	H
			2.505159	47.45	ADR	32.4	0.3	-48.76	31.39	68.2	-36.81	-	-	360	200	V
			2.51006	59.22	PK-U	32.3	0	-48.65	42.87	-	-	88.2	-45.33	360	200	V
			15.166893	57.33	PK-U	39.6	0	-42.29	54.64	-	-	88.2	-33.56	360	200	V
			15.173253	45.38	ADR	39.6	0.3	-42.56	42.72	68.2	-25.48	-	-	360	200	V
			15.17696	56.85	PK-U	39.6	0	-42.72	53.73	-	-	88.2	-34.47	360	101	H
			15.180596	45.09	ADR	39.6	0.3	-42.97	42.02	68.2	-26.18	-	-	360	101	H
	6420	6 + 16	* 1.720132	47.57	ADR	29.5	0.3	-48.36	29.01	54	-24.99	-	-	0	101	H
			* 2.489817	59.28	PK-U	32.4	0	-48.85	42.83	-	-	74	-31.17	0	101	H
			* 2.497203	47.91	ADR	32.4	0.3	-48.78	31.83	54	-22.17	-	-	0	101	H
			* 2.495989	47.96	ADR	32.4	0.3	-48.81	31.85	54	-22.15	-	-	0	101	V
			1.72326	47.44	ADR	29.6	0.3	-48.39	28.95	68.2	-39.25	-	-	0	199	V
			1.7263	59.1	PK-U	29.6	0	-48.43	40.27	-	-	88.2	-47.93	0	101	H
			1.753035	64.49	PK-U	30	0	-48.65	45.84	-	-	88.2	-42.36	0	199	V
			2.500886	63.13	PK-U	32.4	0	-48.78	46.75	-	-	88.2	-41.45	0	101	V
			15.122017	44.9	ADR	39.5	0.3	-43.31	41.39	68.2	-26.81	-	-	0	101	H
			15.135571	56.69	PK-U	39.6	0	-43.24	53.05	-	-	88.2	-35.15	0	101	H
			15.151946	45.12	ADR	39.6	0.3	-42.49	42.53	68.2	-25.67	-	-	0	200	V
			15.152594	56.81	PK-U	39.6	0	-42.46	53.95	-	-	88.2	-34.25	0	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

UNI-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Fltr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	6106	6 + 16	* 2.247941	46.24	ADR	32.2	1.08	-47.6	31.92	54	-22.08	-	-	360	101	H
			* 2.260062	46.14	ADR	32.1	1.08	-47.65	31.67	54	-22.33	-	-	360	101	V
			* 2.268739	58.3	PK-U	32.1	0	-47.63	42.77	-	-	74	-31.23	360	101	H
			* 2.271488	58.28	PK-U	32.1	0	-47.62	42.76	-	-	74	-31.24	360	101	V
			* 3.723433	55.74	PK-U	33	0	-45.19	43.55	-	-	74	-30.45	360	101	V
			* 3.73859	55.67	PK-U	33	0	-45.17	43.5	-	-	74	-30.5	360	200	H
			* 3.74104	43.94	ADR	33	1.08	-45.17	32.85	54	-21.15	-	-	360	101	V
			* 3.743172	43.73	ADR	33	1.08	-45.07	32.74	54	-21.26	-	-	360	200	H
			* 8.350171	41.84	ADR	35.8	1.08	-43.04	35.68	54	-18.32	-	-	360	199	H
			* 8.353839	54.31	PK-U	35.8	0	-43.01	47.1	-	-	74	-26.9	360	101	V
			* 8.354499	53.62	PK-U	35.8	0	-43.01	46.41	-	-	74	-27.59	360	199	H
			* 8.357194	42.01	ADR	35.8	1.08	-43.08	35.81	54	-18.19	-	-	360	101	V
	6265	6 + 16	* 11.418145	55.11	PK-U	38.1	0	-43.08	50.13	-	-	74	-23.87	360	101	V
			* 11.425233	54.86	PK-U	38.1	0	-43.12	49.84	-	-	74	-24.16	360	200	H
			* 11.433676	42.89	ADR	38.1	1.08	-43.13	38.94	54	-15.06	-	-	360	200	H
			* 11.440687	43.07	ADR	38.1	1.08	-43.15	39.1	54	-14.9	-	-	360	101	V
			* 2.255662	46.21	ADR	32.2	1.08	-47.63	31.86	54	-22.14	-	-	360	101	V
			* 2.267074	58.19	PK-U	32.1	0	-47.63	42.66	-	-	74	-31.34	360	101	H
			* 2.276064	46.19	ADR	32.1	1.08	-47.62	31.75	54	-22.25	-	-	360	101	H
			* 2.283588	58.3	PK-U	32.1	0	-47.63	42.77	-	-	74	-31.23	360	101	V
			* 3.922542	55.1	PK-U	33.5	0	-44.92	43.68	-	-	74	-30.32	360	200	H
			* 3.955543	43.18	ADR	33.5	1.08	-45.06	32.7	54	-21.3	-	-	360	200	H
			* 3.957663	54.82	PK-U	33.5	0	-45.09	43.23	-	-	74	-30.77	360	200	V
			* 3.960005	43.05	ADR	33.5	1.08	-45.12	32.51	54	-21.49	-	-	360	200	V
	6420	6 + 16	* 8.141068	55.98	PK-U	35.8	0	-43.05	48.73	-	-	74	-25.27	0	101	H
			* 8.173669	44.37	ADR	35.8	1.08	-43.38	37.87	54	-16.13	-	-	0	101	H
			* 8.14057	56.68	PK-U	35.8	0	-43.04	49.44	-	-	74	-24.56	0	101	V
			* 8.17395	44.25	ADR	35.8	1.08	-43.38	37.75	54	-16.25	-	-	0	101	V
			12.826279	56.57	PK-U	39.3	0	-43.89	51.98	-	-	88.2	-36.22	0	200	H
			12.835886	56.63	PK-U	39.3	0	-43.83	52.1	-	-	88.2	-36.1	0	199	V
			12.851529	44.58	ADR	39.3	1.08	-43.65	41.31	68.2	-26.89	-	-	0	200	H
			12.85888	44.67	ADR	39.3	1.08	-43.63	41.42	68.2	-26.78	-	-	0	199	V
			17.235115	58.03	PK-U	41.3	0	-42.07	57.26	-	-	88.2	-30.94	0	200	V
			17.249854	58.22	PK-U	41.3	0	-41.91	57.61	-	-	88.2	-30.59	0	199	H
			17.254637	46	ADR	41.3	1.08	-41.9	46.48	68.2	-21.72	-	-	0	200	V
			17.262344	45.92	ADR	41.3	1.08	-42.02	46.28	68.2	-21.92	-	-	0	199	H
HDRPM4	6107	6 + 16	* 15.677009	57.37	PK-U	40.4	0	-43.18	54.59	-	-	74	-19.41	360	200	H
			* 15.696235	45.44	ADR	40.4	0.31	-43.73	42.42	54	-11.58	-	-	360	200	V
			* 15.700314	57.07	PK-U	40.4	0	-43.68	53.79	-	-	74	-20.21	360	200	V
			* 15.710066	45.43	ADR	40.4	0.31	-43.67	42.47	54	-11.53	-	-	360	200	H
			* 4.696716	46.27	ADR	34.2	0.31	-47.11	33.67	54	-20.33	-	-	360	199	V
			* 4.71044	46.24	ADR	34.2	0.31	-47.14	33.61	54	-20.39	-	-	360	199	H
			* 4.711794	58.62	PK-U	34.2	0	-47.18	45.64	-	-	74	-28.36	360	199	V
			* 4.716448	57.87	PK-U	34.2	0	-47.09	44.98	-	-	74	-29.02	360	199	H
			* 9.113413	44.99	ADR	36.4	0.31	-43.84	37.86	54	-16.14	-	-	360	101	V
			* 9.117176	56.71	PK-U	36.4	0	-44.07	49.04	-	-	74	-24.96	360	101	H
			* 9.117892	45.06	ADR	36.4	0.31	-44.17	37.6	54	-16.4	-	-	360	101	H
			* 9.119104	57.09	PK-U	36.4	0	-44.15	49.34	-	-	74	-24.66	360	101	V
	6265	6 + 16	* 12.513063	55.94	PK-U	38.9	0	-43.68	51.16	-	-	74	-22.84	360	199	V
			* 12.537365	44.23	ADR	39	0.31	-43.69	39.85	54	-14.15	-	-	360	101	H
			* 12.54274	44.34	ADR	39	0.31	-43.68	39.97	54	-14.03	-	-	360	199	V
			* 12.544312	56.43	PK-U	39	0	-43.67	51.76	-	-	74	-22.24	360	101	H
			* 8.286317	44.04	ADR	35.9	0.31	-43.79	36.46	54	-17.54	-	-	360	101	H
			* 8.288889	44	ADR	35.9	0.31	-43.7	36.51	54	-17.49	-	-	360	199	V
			* 8.295712	56.06	PK-U	35.9	0	-43.69	48.27	-	-	74	-25.73	360	199	V
			* 8.297808	56.32	PK-U	35.9	0	-43.74	48.48	-	-	74	-25.52	360	101	H
			17.284185	45.96	ADR	41.3	0.31	-42.35	45.22	68.2	-22.98	-	-	360	199	V
			17.300411	58.09	PK-U	41.3	0	-42.17	57.22	-	-	88.2	-30.98	360	199	H
			17.302055	57.41	PK-U	41.3	0	-42.18	56.53	-	-	88.2	-31.67	360	199	V
			17.30849	45.87	ADR	41.3	0.31	-42.13	45.35	68.2	-22.85	-	-	360	199	H
	6420	6 + 16	* 8.176448	57.37	PK-U	35.8	0	-43.37	49.8	-	-	74	-24.2	1	199	H
			* 8.171664	44.61	ADR	35.8	0.31	-43.38	37.34	54	-16.66	-	-	1	199	H
			* 8.194602	56.29	PK-U	35.8	0	-43.29	48.8	-	-	74	-25.2	1	199	V
			* 8.182755	44.43	ADR	35.8	0.31	-43.23	37.31	54	-16.69	-	-	1	199	V
			12.847501	56.51	PK-U	39.3	0	-43.69	52.12	-	-	88.2	-36.08	1	101	H
			12.848305	44.6	ADR	39.3	0.31	-43.65	40.56	68.2	-27.64	-	-	1	101	H
			12.857776	55.97	PK-U	39.3	0	-43.64	51.63	-	-	88.2	-36.57	1	101	V
			12.859312	44.6	ADR	39.3	0.31	-43.62	40.59	68.2	-27.61	-	-	1	101	V
			17.483238	58.25	PK-U	41.4	0	-41.88	57.77	-	-	88.2	-30.43	1	101	V
			17.495365	46.21	ADR	41.4	0.31	-42.13	45.79	68.2	-22.41	-	-	1	101	V
			17.497437	58.49	PK-U	41.4	0	-42.18	57.71	-	-	88.2	-30.49	1	101	H
			17.5098	46.15	ADR	41.5	0.31	-42.45	45.51	68.2	-22.69	-	-	1	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

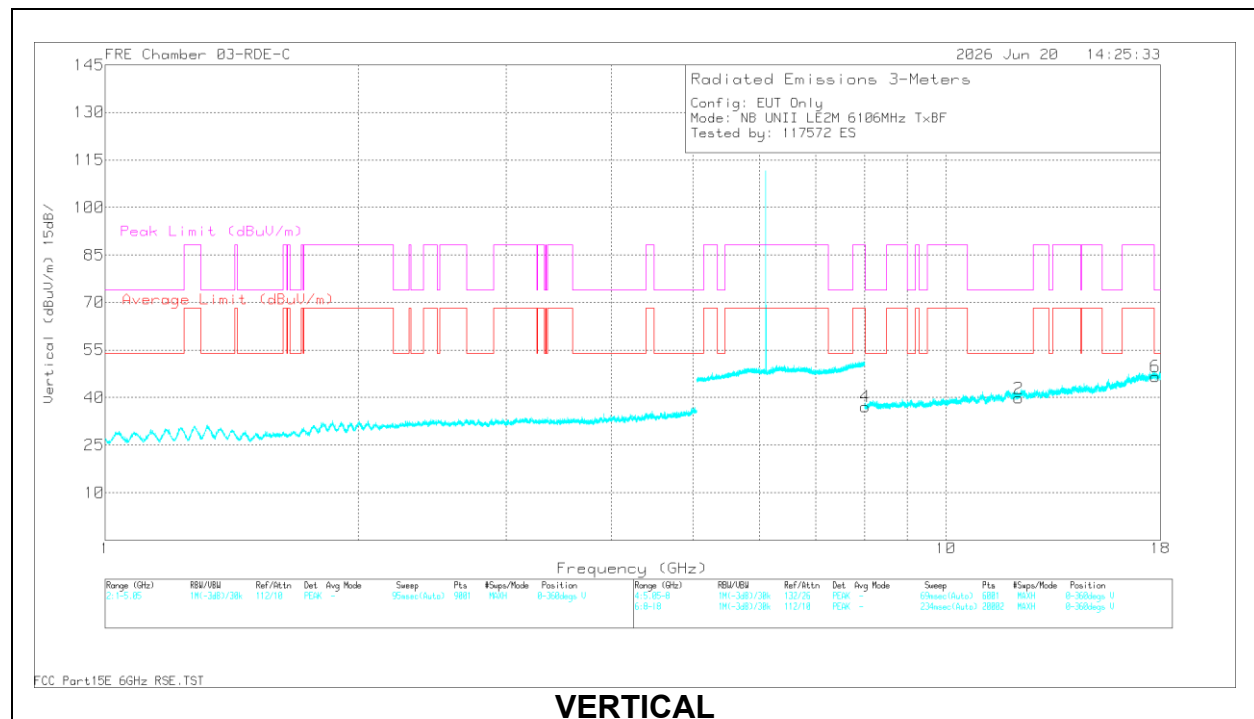
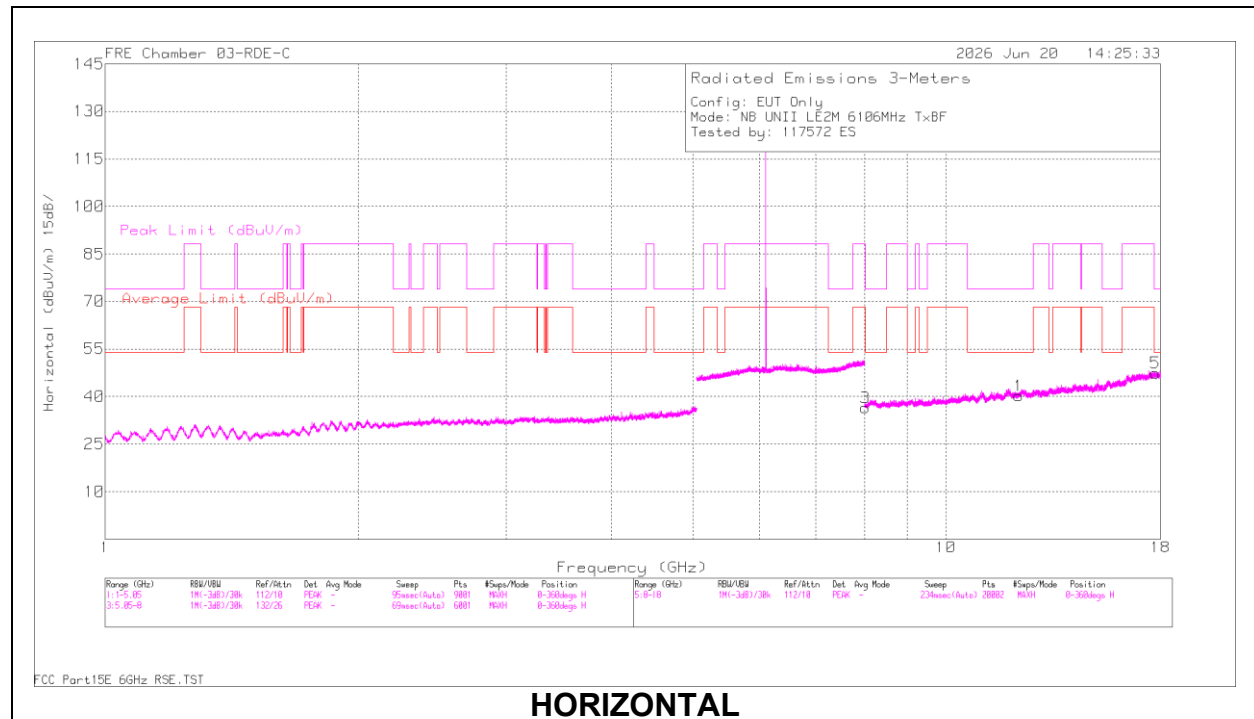
UNII-5 (MIMO TXBF)	Channel Frequency (MHz)	Ant. #	Frequency (GHz)	Meter Reading (dBuV)	Det	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Filtr/Pad (dB)	Correct Reading (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)	Pk Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
XHDRPL12	6109	6 + 16	* 15.701002	57.36	PK-U	40.4	0	-43.73	54.03	-	-	74	-19.97	357	101	H
			* 15.701682	44.95	ADR	40.4	0.5	-43.71	42.14	54	-11.86	-	-	357	101	H
			* 15.699747	57.25	PK-U	40.4	0	-43.68	53.97	-	-	74	-20.03	357	200	V
			* 15.682712	45.06	ADR	40.4	0.5	-43.42	42.54	54	-11.46	-	-	357	200	V
			1.902252	55.07	ADR	31	0.5	-48.44	38.13	68.2	-30.07	-	-	357	213	V
			1.902297	72.42	PK-U	31	0	-48.44	54.98	-	-	88.2	-33.22	357	213	V
			1.906697	48.18	ADR	31	0.5	-48.44	31.24	68.2	-36.96	-	-	154	140	H
			1.914674	59.83	PK-U	31	0	-48.44	42.39	-	-	88.2	-45.81	154	140	H
			9.209132	56.95	PK-U	36.5	0	-45.09	48.36	-	-	88.2	-39.84	357	200	H
			9.215147	56.98	PK-U	36.5	0	-45.02	48.46	-	-	88.2	-39.74	357	101	V
			9.226558	45.07	ADR	36.5	0.5	-45.06	37.01	68.2	-31.19	-	-	357	200	H
			9.231858	45.01	ADR	36.5	0.5	-44.99	37.02	68.2	-31.18	-	-	357	101	V
	6265	6 + 16	* 9.135152	57.18	PK-U	36.4	0	-44.49	49.09	-	-	74	-24.91	231	101	H
			* 9.152274	44.54	ADR	36.4	0.5	-44.41	37.03	54	-16.97	-	-	231	101	H
			* 16.151665	55.94	PK-U	40.6	0	-42.36	54.18	-	-	74	-19.82	231	101	H
			* 16.139022	44.16	ADR	40.6	0.5	-42.57	42.69	54	-11.31	-	-	231	101	H
			* 9.173024	56.98	PK-U	36.4	0	-44.47	48.91	-	-	74	-25.09	231	199	V
			* 9.141496	44.57	ADR	36.4	0.5	-44.53	36.94	54	-17.06	-	-	231	199	V
			* 16.13893	56.25	PK-U	40.6	0	-42.57	54.28	-	-	74	-19.72	231	199	V
			* 16.138198	44.26	ADR	40.6	0.5	-42.59	42.77	54	-11.23	-	-	231	199	V
			1.908322	51.94	ADR	31	0.5	-48.42	35.02	68.2	-33.18	-	-	4	290	H
			1.908477	54.39	ADR	31	0.5	-48.42	37.47	68.2	-30.73	-	-	231	370	V
			1.908522	68.96	PK-U	31	0	-48.43	51.53	-	-	88.2	-36.67	4	290	H
			1.908837	72.81	PK-U	31	0	-48.43	55.38	-	-	88.2	-32.82	231	370	V
	6417	6 + 16	* 8.25344	55.86	PK-U	35.8	0	-43.4	48.26	-	-	74	-25.74	343	101	H
			* 8.253824	43.91	ADR	35.8	0.5	-43.39	36.82	54	-17.18	-	-	343	101	H
			* 15.677873	57.11	PK-U	40.4	0	-43.27	54.24	-	-	74	-19.76	343	198	H
			* 15.653356	45.05	ADR	40.3	0.5	-42.93	42.92	54	-11.08	-	-	343	198	H
			* 8.288997	55.31	PK-U	35.9	0	-43.69	47.52	-	-	74	-26.48	343	198	V
			* 8.258136	43.96	ADR	35.8	0.5	-43.35	36.91	54	-17.09	-	-	343	198	V
			* 15.683635	56.88	PK-U	40.4	0	-43.43	53.85	-	-	74	-20.15	343	198	V
			* 15.65303	44.93	ADR	40.3	0.5	-42.95	42.78	54	-11.22	-	-	343	198	V
			1.901147	67.71	PK-U	31	0	-48.44	50.27	-	-	88.2	-37.93	343	374	V
			1.901274	49.16	ADR	31	0.5	-48.43	32.23	68.2	-35.97	-	-	41	168	H
			1.901903	50.99	ADR	31	0.5	-48.42	34.07	68.2	-34.13	-	-	343	374	V
			1.906624	63.8	PK-U	31	0	-48.44	46.36	-	-	88.2	-41.84	41	168	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

WORST-CASE HARMONIC AND SPURIOUS EMISSIONS: **MIMO TXBF/ HIGH POWER / LE2M / 6106 MHz**



RADIATED EMISSIONS**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 12.212289	44.36	Pk	39	0	-43.15	40.21	-	-	74	-33.79	0-360	200	H
2	* 12.211789	43.94	Pk	39	0	-43.14	39.8	-	-	74	-34.2	0-360	200	V
3	8.018499	44.69	Pk	35.8	0	-44.04	36.45	-	-	88.2	-51.75	0-360	101	H
4	8.015999	45.5	Pk	35.8	0	-44.15	37.15	-	-	88.2	-51.05	0-360	101	V
5	* 17.753012	47.24	Pk	41.6	0	-41.4	47.44	-	-	74	-26.56	0-360	200	H
6	* 17.753012	46.43	Pk	41.6	0	-41.4	46.63	-	-	74	-27.37	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Radiated Emissions

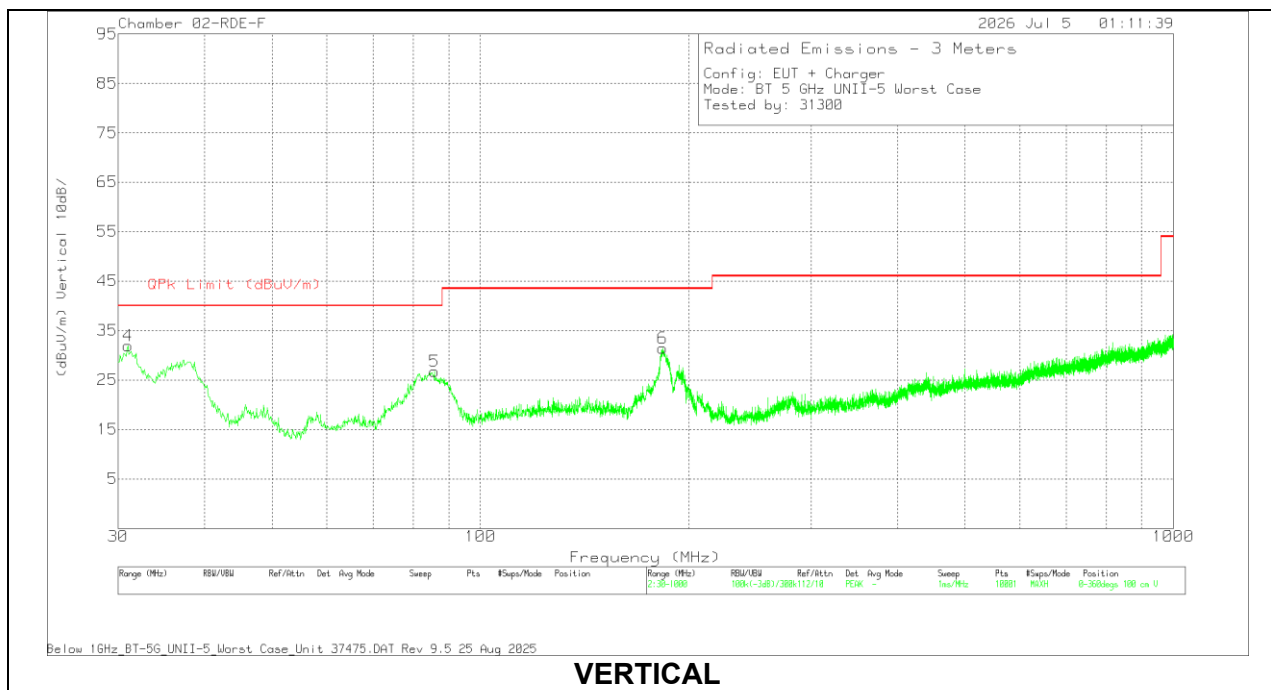
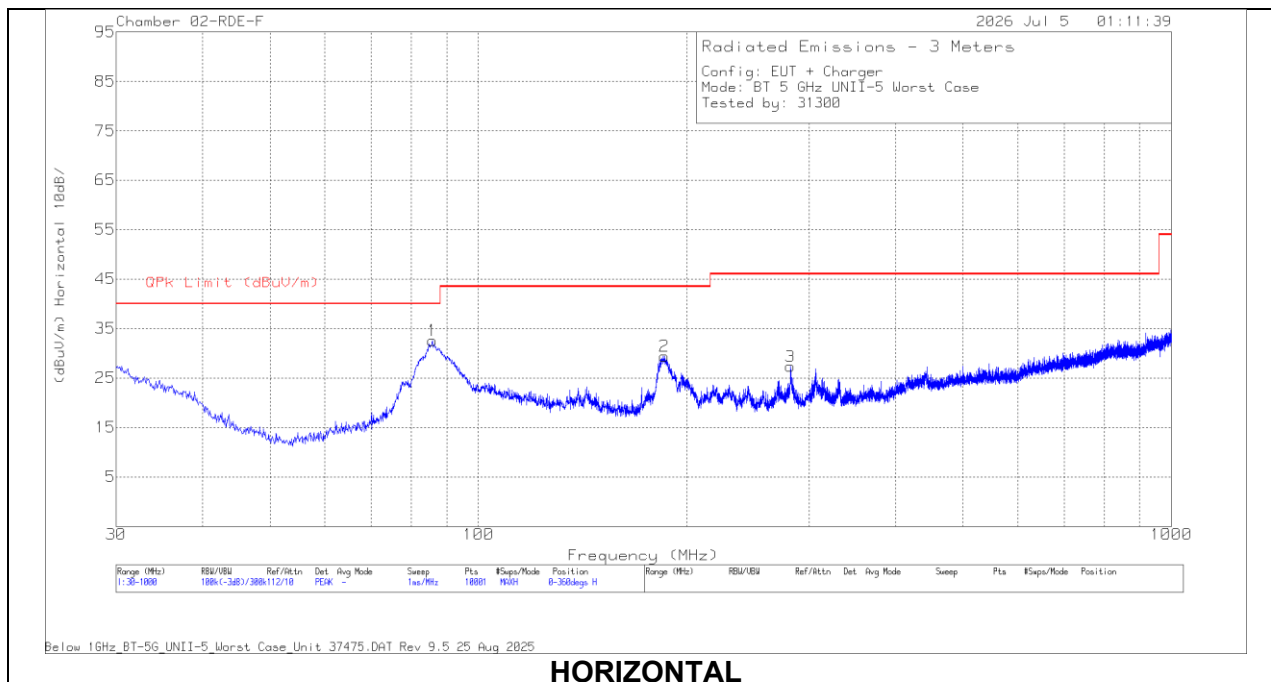
Frequency (GHz)	Meter Reading (dBuV)	Det	84797 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.193739	55.12	PK-U	39	0	-42.95	51.17	-	-	74	-22.83	1	200	V
* 12.222572	43.01	ADR	39	2.46	-43.19	41.28	54	-12.72	-	-	1	200	H
* 12.223272	55.15	PK-U	39	0	-43.22	50.93	-	-	74	-23.07	1	200	H
* 12.228468	43.12	ADR	39	2.46	-43.17	41.41	54	-12.59	-	-	1	200	V
* 17.733658	57.23	PK-U	41.6	0	-41.92	56.91	-	-	74	-17.09	1	101	V
* 17.745645	45.48	ADR	41.6	2.46	-41.6	47.94	54	-6.06	-	-	1	101	V
* 17.748601	58.28	PK-U	41.6	0	-41.5	58.38	-	-	74	-15.62	1	200	H
* 17.749045	45.75	ADR	41.6	2.46	-41.54	48.27	54	-5.73	-	-	1	200	H
* 8.026248	56.05	PK-U	35.8	0	-44.19	47.66	-	-	74	-26.34	1	101	H
* 8.028716	56.08	PK-U	35.8	0	-44.16	47.72	-	-	74	-26.28	1	101	V
8.001886	44.11	ADR	35.8	2.46	-44.13	38.24	68.2	-29.96	-	-	1	101	H
8.002285	44.07	ADR	35.8	2.46	-44.12	38.21	68.2	-29.99	-	-	1	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2. WORST CASE BELOW 1 GHz – HIGH POWER



RADIATED EMISSIONS**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 281.909	38.63	Pk	19.2	-30.5	27.33	46.02	-18.69	0-360	97	H
4	30.97	37.18	Pk	26.3	-31.5	31.98	40	-8.02	0-360	100	V
1	85.775	50.56	Pk	13.2	-31.2	32.56	40	-7.44	0-360	199	H
5	85.775	44.74	Pk	13.2	-31.2	26.74	40	-13.26	0-360	198	V
6	183.066	44.87	Pk	17.1	-30.5	31.47	43.52	-12.05	0-360	100	V
2	185.588	42.64	Pk	17.1	-30.3	29.44	43.52	-14.08	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

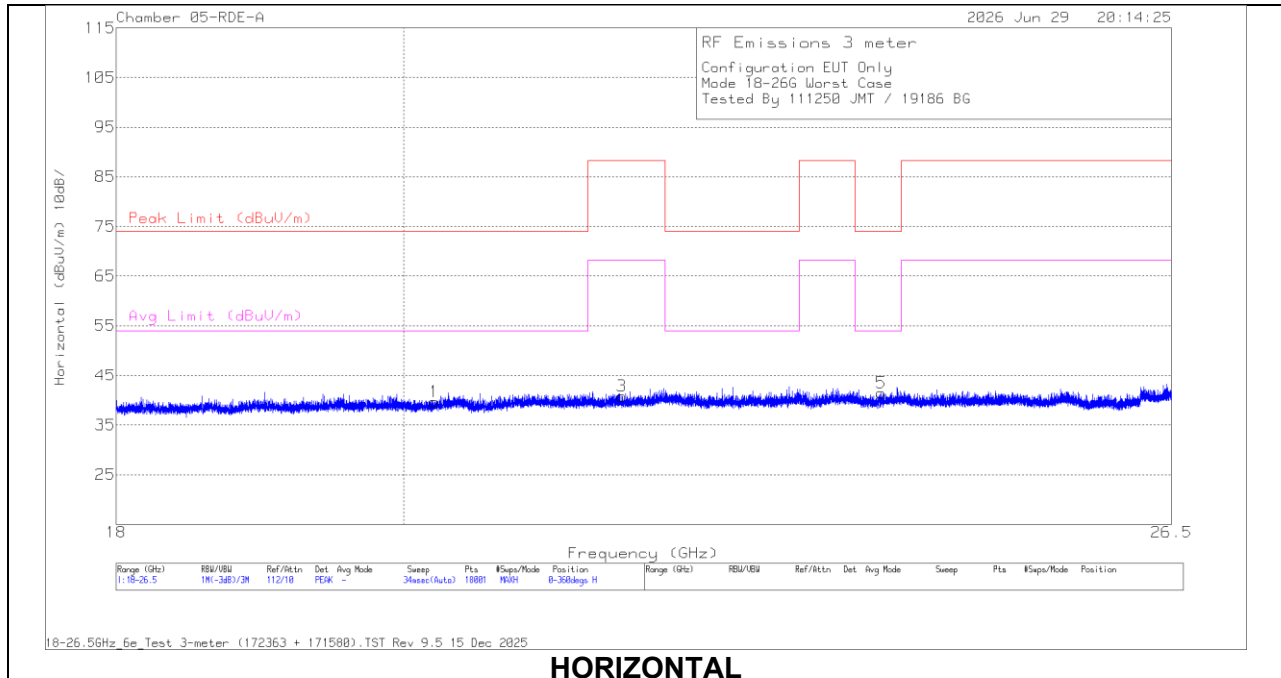
Pk - Peak detector

Radiated Emissions

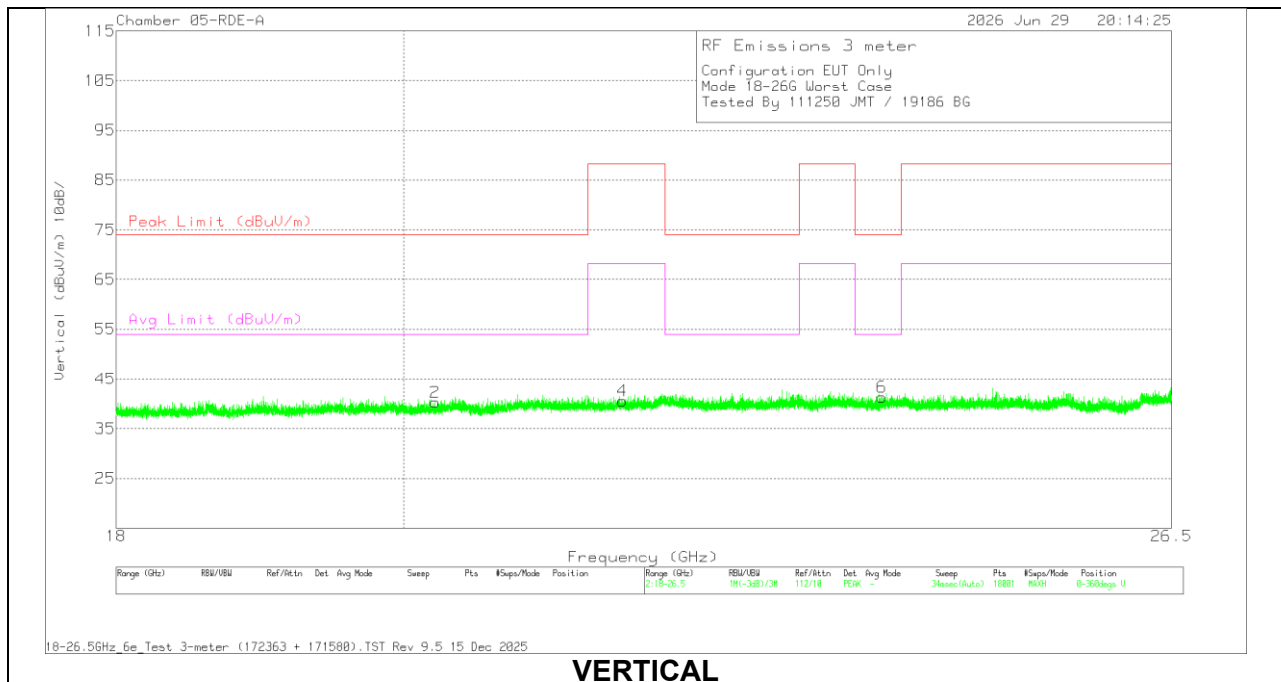
Frequency (MHz)	Meter Reading (dBuV)	Det	202301 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
31.4963	32.8	Qp	26	-31.6	27.2	40	-12.8	10	113	V
86.0053	46.95	Qp	13.2	-31.3	28.85	40	-11.15	54	251	H

Qp - Quasi-Peak detector

11.3. WORST CASE 18-26 GHz – HIGH POWER



HORIZONTAL



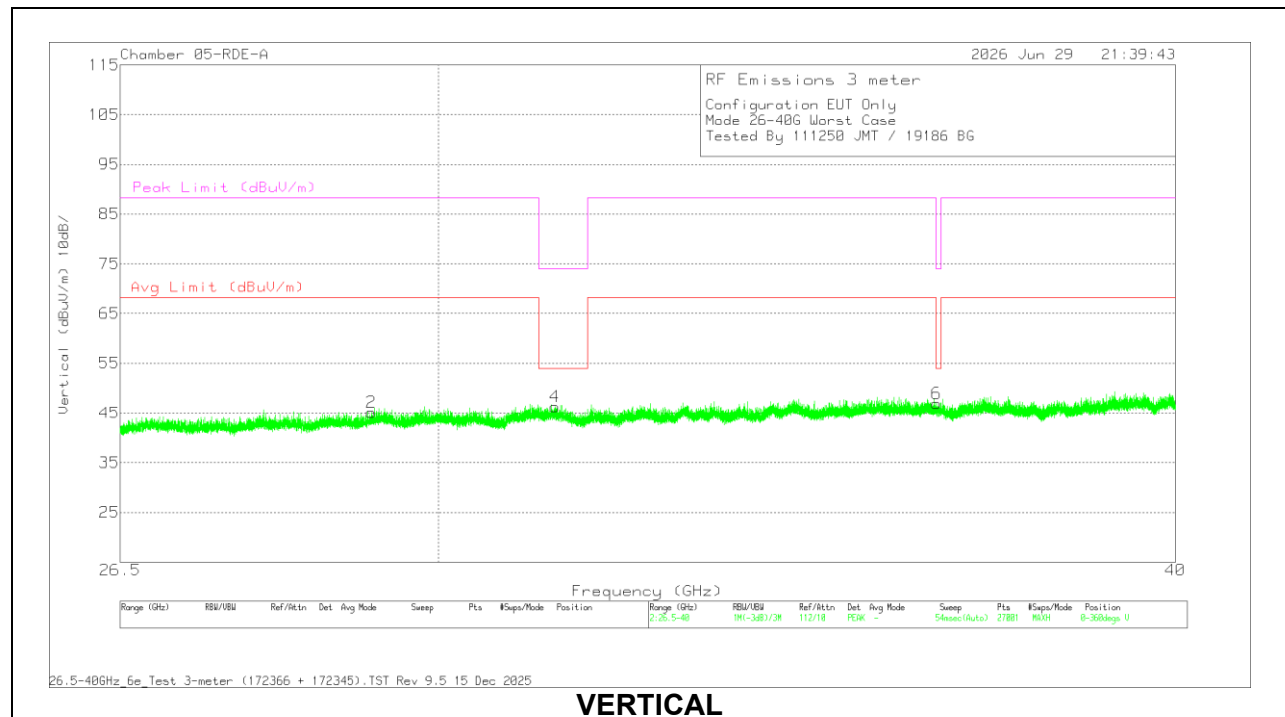
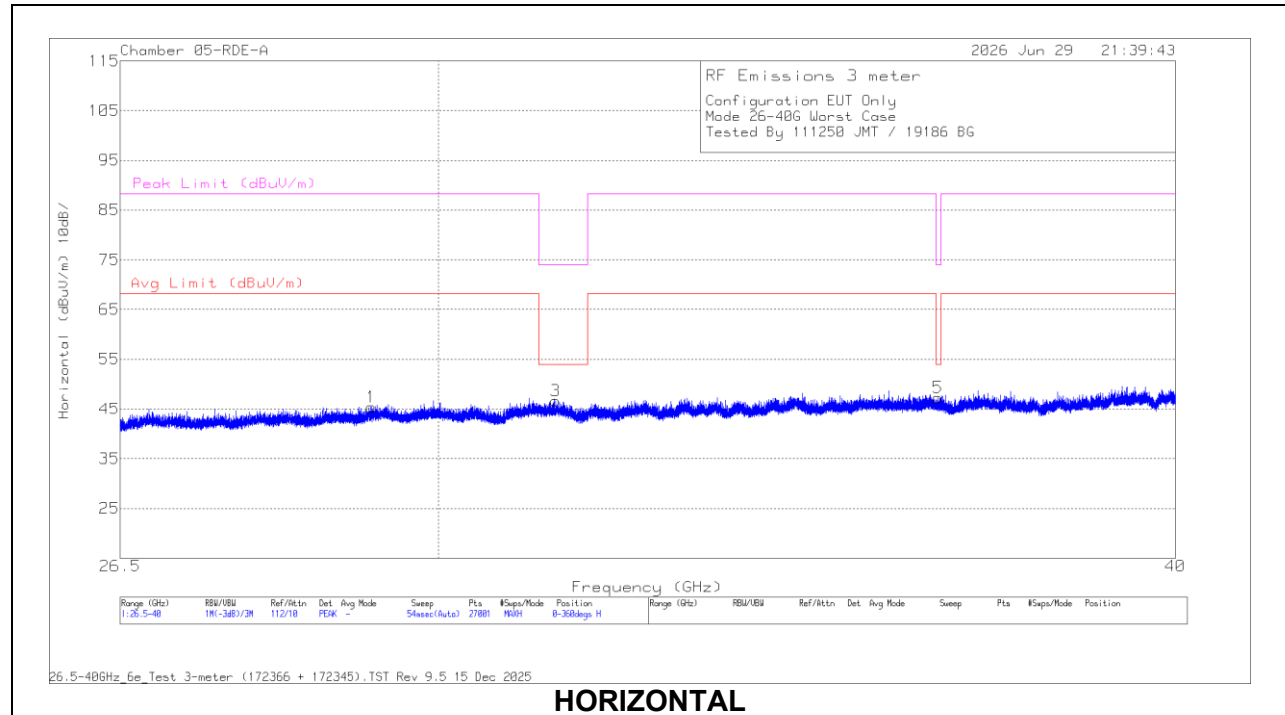
VERTICAL

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172363 ACF (dB/m)	AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 20.227943	54.27	Pk	32.5	-62.2	15.1	39.67	74	-27.4	0-360	101	H
5	* 23.823914	54.38	Pk	33.4	-62.7	16.4	41.48	74	-26.74	0-360	101	H
2	* 20.233138	54.88	Pk	32.5	-62.2	15.1	40.28	74	-27.77	0-360	101	V
6	* 23.829108	54.28	Pk	33.4	-62.7	16.4	41.38	74	-27.14	0-360	101	V
3	21.665859	54.99	Pk	32.9	-62.8	15.7	40.79	88.2	-47.41	0-360	101	H
4	21.670582	54.81	Pk	32.9	-62.8	15.7	40.61	88.2	-47.59	0-360	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK - Peak detector

11.4. WORST CASE 26-40 GHz – HIGH POWER



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172366 ACF (dB/m)	AMP (dB)	CBL (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 31.4095	58.5	Pk	36.7	-68	19.4	46.6	74	-27.4	0-360	101	H
5	* 36.4605	59.26	Pk	37.4	-71.3	21.9	47.26	74	-26.74	0-360	101	H
4	* 31.4015	58.13	Pk	36.7	-68	19.4	46.23	74	-27.77	0-360	101	V
6	* 36.441	58.86	Pk	37.4	-71.3	21.9	46.86	74	-27.14	0-360	101	V
2	29.2275	60.72	Pk	36.1	-70.1	18.4	45.12	88.2	-43.08	0-360	200	V
1	29.228	60.96	Pk	36.1	-70.1	18.4	45.36	88.2	-42.84	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

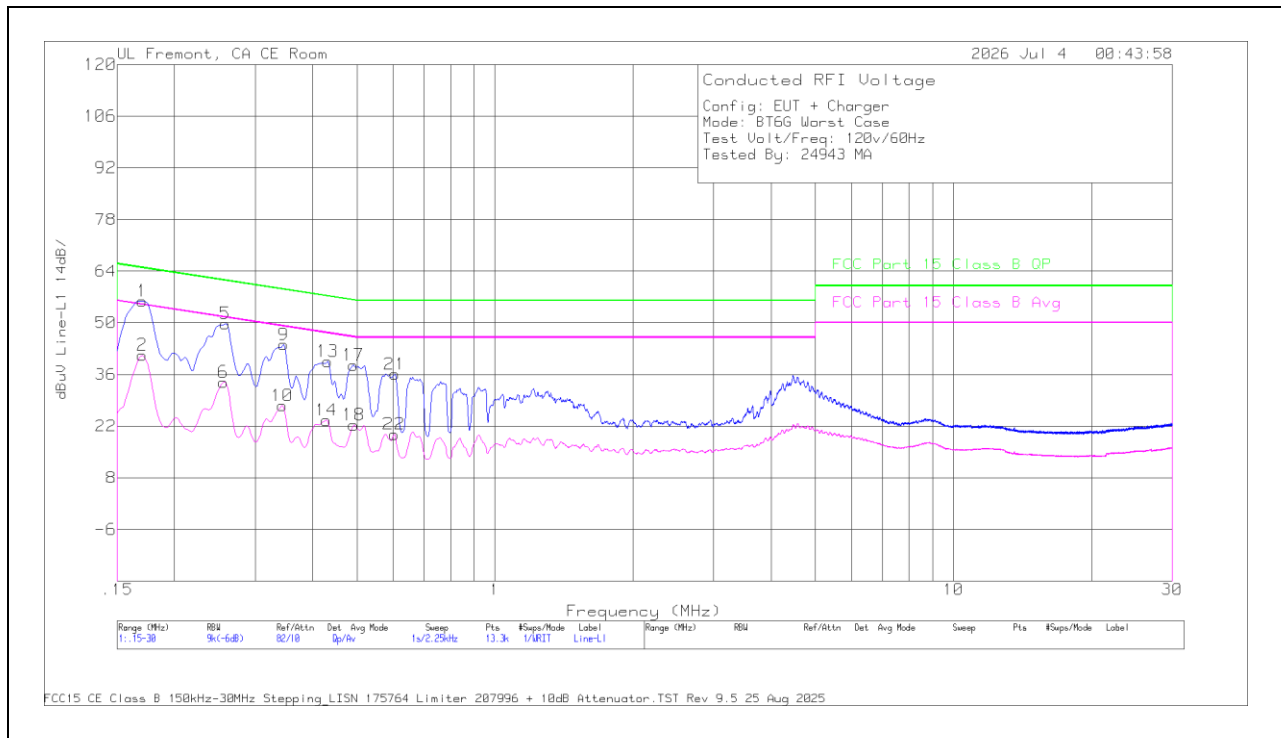
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both HOT (L1) and NEUTRAL (L2) lines.

RESULTS

12.1. EUT WITH AC ADAPTER

LINE 1 RESULTS

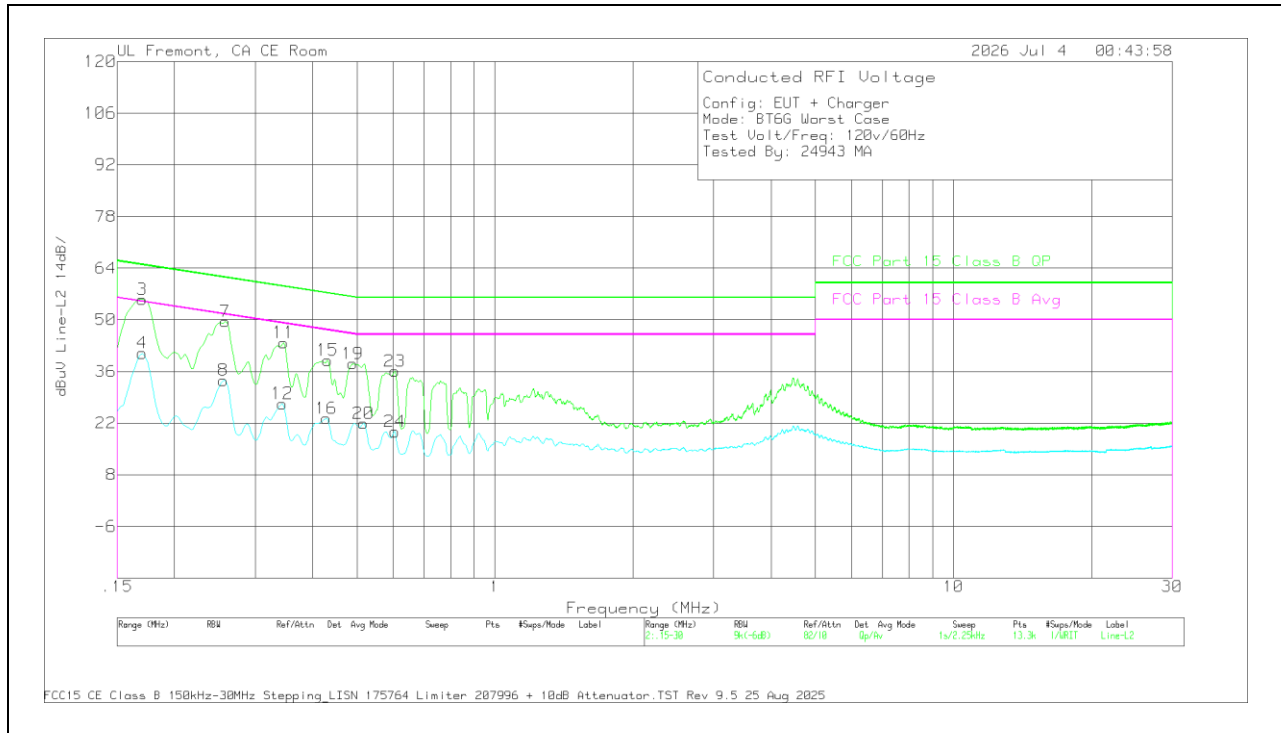


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 1 C3_C1_plus Limiter (dB)	Attenuator (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
2	.1703	21.84	Av	.1	9.4	9.9	41.24	-	-	54.95	-13.71
6	.2558	14.59	Av	0	9.4	9.9	33.89	-	-	51.57	-17.68
10	.3435	8.25	Av	0	9.4	9.9	27.55	-	-	49.12	-21.57
14	.429	4.38	Av	0	9.3	9.9	23.58	-	-	47.27	-23.69
18	.492	3.09	Av	0	9.3	9.9	22.29	-	-	46.13	-23.84
22	.6023	.58	Av	0	9.3	9.9	19.78	-	-	46	-26.22
1	.1703	36.47	Qp	.1	9.4	9.9	55.87	64.95	-9.08	-	-
5	.258	30.46	Qp	0	9.4	9.9	49.76	61.5	-11.74	-	-
9	.3458	24.9	Qp	0	9.3	9.9	44.1	59.06	-14.96	-	-
13	.4313	20.35	Qp	0	9.3	9.9	39.55	57.23	-17.68	-	-
17	.4909	19.33	Qp	0	9.3	9.9	38.53	56.15	-17.62	-	-
21	.6045	16.84	Qp	0	9.3	9.9	36.04	56	-19.96	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

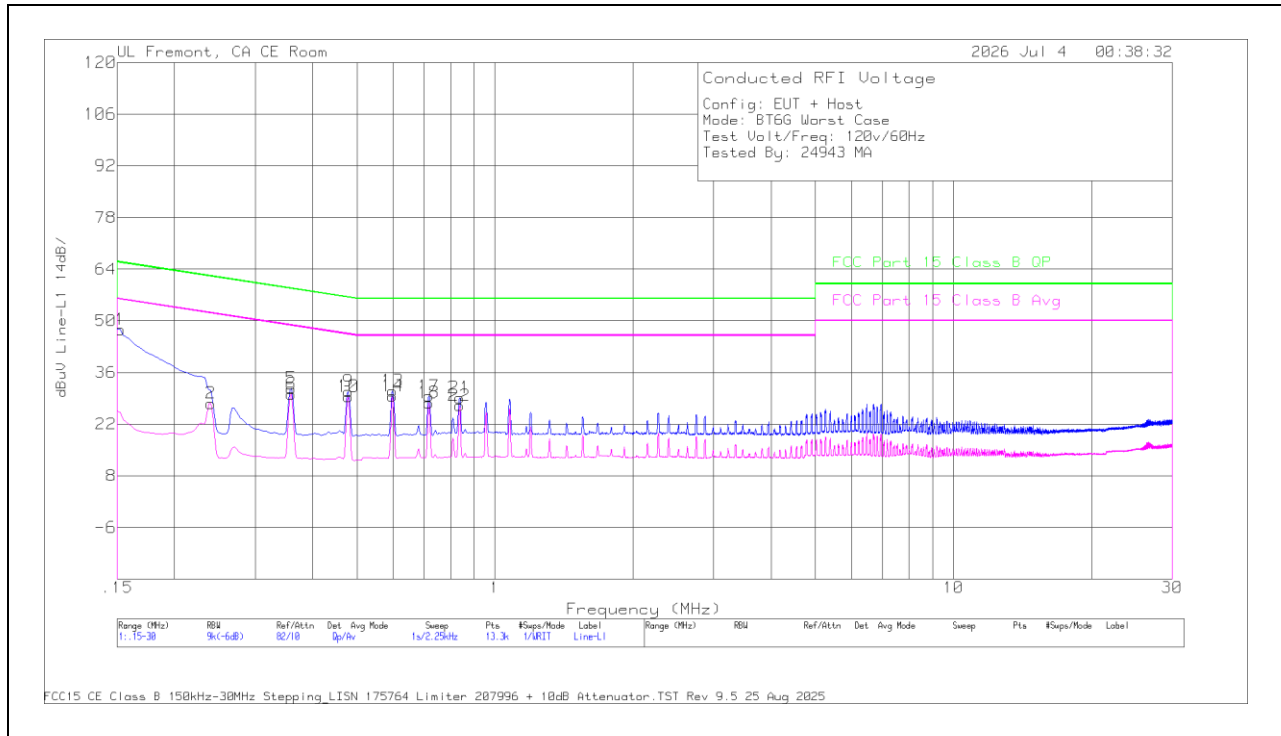
LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 1 C3_C1_plus Limiter (dB)	Attenuator (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
4	.1703	21.55	Av	.1	9.4	9.9	40.95	-	-	54.95	-14
8	.2558	14.29	Av	0	9.4	9.9	33.59	-	-	51.57	-17.98
12	.3435	7.94	Av	0	9.4	9.9	27.24	-	-	49.12	-21.88
16	.429	4.08	Av	0	9.3	9.9	23.28	-	-	47.27	-23.99
20	.5168	2.73	Av	0	9.3	9.9	21.93	-	-	46	-24.07
24	.6045	.36	Av	0	9.4	9.9	19.66	-	-	46	-26.34
3	.1703	36.09	Qp	.1	9.4	9.9	55.49	64.95	-9.46	-	-
7	.258	30.22	Qp	0	9.4	9.9	49.52	61.5	-11.98	-	-
11	.3458	24.6	Qp	0	9.3	9.9	43.8	59.06	-15.26	-	-
15	.4313	19.84	Qp	0	9.3	9.9	39.04	57.23	-18.19	-	-
19	.4898	18.79	Qp	0	9.4	9.9	38.09	56.17	-18.08	-	-
23	.6045	16.76	Qp	0	9.4	9.9	36.06	56	-19.94	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

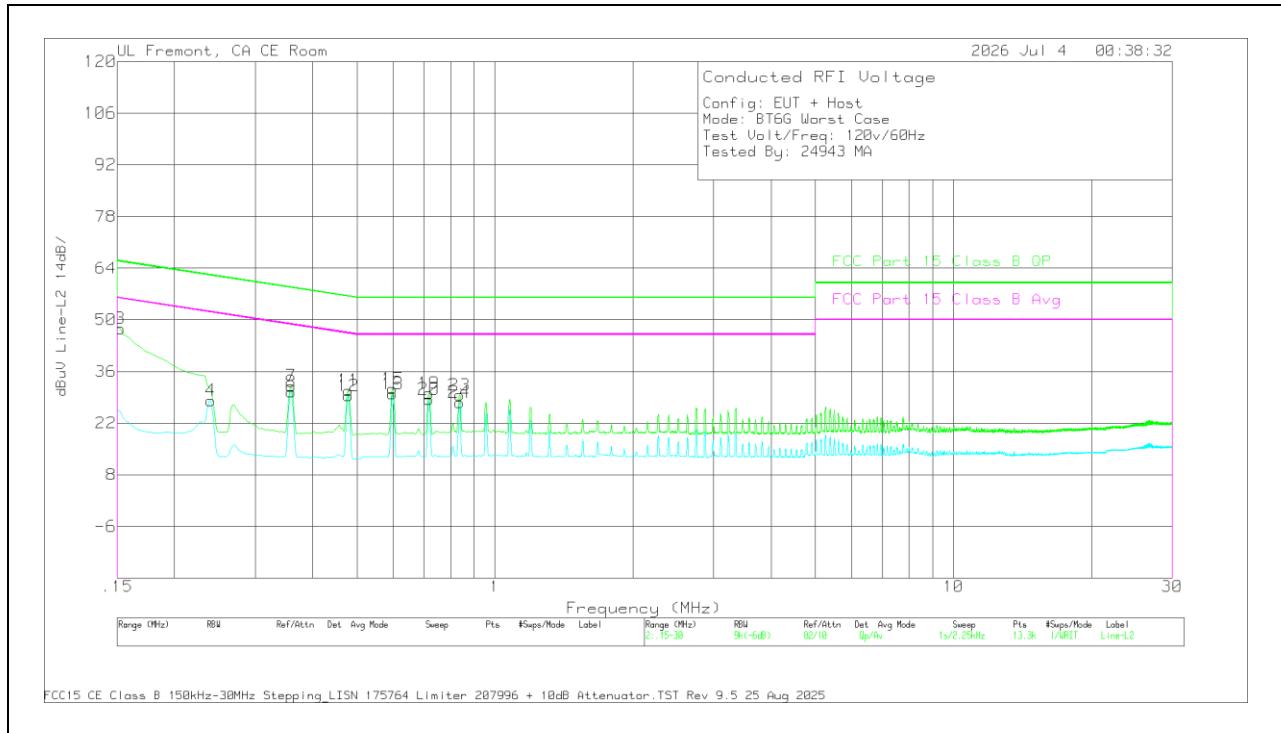
12.2. EUT WITH LAPTOP**LINE 1 RESULTS**

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 1 C3_C1_plus Limiter (dB)	Attenuator (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
2	.24	8.34	Av	0	9.4	9.9	27.64	-	-	52.1	-24.46
6	.3593	10.98	Av	0	9.3	9.9	30.18	-	-	48.75	-18.57
10	.4785	10.27	Av	0	9.3	9.9	29.47	-	-	46.37	-16.9
14	.5978	10.42	Av	0	9.3	9.9	29.62	-	-	46	-16.38
18	.717	8.59	Av	0	9.3	9.9	27.79	-	-	46	-18.21
22	.8363	7.7	Av	0	9.4	9.9	27	-	-	46	-19
1	.1523	28.21	Qp	.1	9.4	9.9	47.61	65.88	-18.27	-	-
5	.3593	12.51	Qp	0	9.3	9.9	31.71	58.75	-27.04	-	-
9	.4785	11.67	Qp	0	9.3	9.9	30.87	56.37	-25.5	-	-
13	.5978	11.79	Qp	0	9.3	9.9	30.99	56	-25.01	-	-
17	.717	10.36	Qp	0	9.3	9.9	29.56	56	-26.44	-	-
21	.8363	9.82	Qp	0	9.4	9.9	29.12	56	-26.88	-	-

Qp - Quasi-Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 1 C3_C1_plus Limiter (dB)	Attenuator (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av Margin (dB)
4	.24	8.68	Av	.1	9.4	9.9	28.08	-	-	52.1	-24.02
8	.3593	11.16	Av	0	9.4	9.9	30.46	-	-	48.75	-18.29
12	.4785	10.23	Av	0	9.3	9.9	29.43	-	-	46.37	-16.94
16	.5978	10.76	Av	0	9.3	9.9	29.96	-	-	46	-16.04
20	.717	9.16	Av	0	9.4	9.9	28.46	-	-	46	-17.54
24	.8363	8.32	Av	0	9.4	9.9	27.62	-	-	46	-18.38
3	.1523	28.22	Qp	.1	9.4	9.9	47.62	65.88	-18.26	-	-
7	.3593	12.71	Qp	0	9.4	9.9	32.01	58.75	-26.74	-	-
11	.4785	11.68	Qp	0	9.3	9.9	30.88	56.37	-25.49	-	-
15	.5978	12.1	Qp	0	9.3	9.9	31.3	56	-24.7	-	-
19	.717	10.75	Qp	0	9.4	9.9	30.05	56	-25.95	-	-
23	.8363	10.27	Qp	0	9.4	9.9	29.57	56	-26.43	-	-

Qp - Quasi-Peak detector

Av - Average detection

13. SETUP PHOTOS

Please refer to 15982152-EP1 for setup photos.

14. SPOT CHECK EVALUATION

14.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3713, A3714 and A3715. These models are very similar, with only the following differences.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3713	BCG-E9192A	579C-E9192A	-Without FR2 -Added LTE B11, B21	eSIM	-
A3714	BCG-E9193A	579C-E9193A	-Without FR2 -No LTE/5GNR B14, B29, B71 -No LTE B11, B21	eSIM	A3713
A3715	BCG-E9194A	579C-E9194A	-Without FR2 -No LTE/5GNR B14, B29, B71, B53 -No LTE B11, B21, MSS	pSIM+pSIM	

Note:

- All Models use the same System, Cellular and Connectivity radio electrical schematics.
- Removal of LTE/ 5GNR bands on models either done by software or de-population of related components. Please refer to data reuse test plan for details.
- All Models use the same Applications Processor and PMU.
- All Models use the same UICC hardware/software interface.
- All Models run the same Baseband firmware and iOS software.

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB} & , \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB} & , \text{ for } M_{dB} > 60 \text{ dB} \end{cases} \quad (4)$$

Where: d_{dB} deviation from Reference data, V_{dB} variant spot check level, and R_{dB} measurement level

14.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3714

Equipment Class / Technology	Frequency (GHz)	Mode	Modulation	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3713	Sub Model: A3714	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9192A IC ID: 579C-E9192A	FCC ID : BCG-E9193A IC ID: 579C-E9193A			
6VL / NB UNII-5	6106 - 6420 UNII - 5	High Power (ANT 6)	XHDRPL12	Avg Power (EIRP)	Fundamental	Low	6109.000	1.92	1.87	-0.05	-12.08	Note 1
		High Power (ANT 6)	LE2M	Avg Radiated Bandedge (dBm)	Vertical Low Bandedge	Low	5.925000	-43.56	-44.08	-0.52	-16.56	Note 1
		High Power (2TX)	LE2M	Avg RSE (dBuV/m)	Horizontal 1 to 18 GHz	Low	17.749045	48.27	46.41	-1.86	-5.73	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

14.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3715

Equipment Class / Technology	Frequency (GHz)	Mode	Modulation	Test Item		Channel	Measured Frequency (GHz)	Original Model: A3713	Sub Model: A3715	Delta (dB)	Margin	Remarks
								FCC ID : BCG-E9192A IC ID: 579C-E9192A	FCC ID : BCG-E9194A IC ID: 579C-E9194A			
6VL / NB UNII-5	6106 - 6420 UNII - 5	High Power (ANT 6)	XHDRPL12	Avg Power (EIRP)	Fundamental	Low	6109.000	1.92	1.89	-0.03	-12.08	Note 1
		High Power (ANT 6)	LE2M	Avg Radiated Bandedge (dBm)	Vertical Low Bandedge	Low	5.925000	-43.56	-43.85	-0.29	-16.56	Note 1
		High Power (2TX)	LE2M	Avg RSE (dBuV/m)	Horizontal 1 to 18 GHz	Low	17.749045	48.27	46.33	-1.94	-5.73	Note 1

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.