

9.6.7. HDR8 – LOW POWER – SISO

ANT 4



ANT 3

9.6.8. HDR8 – LOW POWER – MIMO TXBF

ANT 4



ANT 3

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209
RSS-GEN, Section 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
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 above 1 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 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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.

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 report in the table) using 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 must 15.209(a) limit.

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

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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

RESULTS

The plots in these sections are for reference settings only for different bandwidth and different antenna.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. LOW BAND EDGE – HIGH POWER – SISO

Mode (SISO)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Fitr/Pad (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2404	4	* 2.39	61.25	Pk	28.4	0	-40.4	49.25	-	-	74	-24.75	212	173	H
			* 2.324731	63.76	Pk	28.2	0	-40.43	51.53	-	-	74	-22.47	212	173	H
			* 2.39	50.47	RMS	28.4	1.3	-40.4	39.77	54	-14.23	-	-	212	173	H
			* 2.38834	51.59	RMS	28.4	1.3	-40.4	40.89	54	-13.11	-	-	212	173	H
			* 2.39	62.3	Pk	28.4	0	-40.4	50.3	-	-	74	-23.7	179	350	V
			* 2.342824	63.39	Pk	28.3	0	-40.4	51.29	-	-	74	-22.71	179	350	V
			* 2.39	50.24	RMS	28.4	1.3	-40.4	39.54	54	-14.46	-	-	179	350	V
		3	* 2.329723	51.65	RMS	28.2	1.3	-40.43	40.72	54	-13.28	-	-	179	350	V
			* 2.39	61.07	Pk	28.4	0	-40.4	49.07	-	-	74	-24.93	106	117	H
			* 2.360218	63.62	Pk	28.3	0	-40.4	51.52	-	-	74	-22.48	106	117	H
			* 2.39	50.02	RMS	28.4	1.3	-40.4	39.32	54	-14.68	-	-	106	117	H
			* 2.377059	51.19	RMS	28.4	1.3	-40.4	40.49	54	-13.51	-	-	106	117	H
			* 2.39	61.52	Pk	28.4	0	-40.4	49.52	-	-	74	-24.48	106	117	V
			* 2.360931	63.47	Pk	28.3	0	-40.4	51.37	-	-	74	-22.63	106	117	V
			* 2.39	50.6	RMS	28.4	1.3	-40.4	39.9	54	-14.1	-	-	106	117	V
HDR8	2404	4	* 2.330539	51.68	RMS	28.2	1.3	-40.4	40.78	54	-13.22	-	-	106	117	V
			* 2.39	64.96	Pk	28.4	0	-40.4	52.96	-	-	74	-21.04	233	220	H
			* 2.389767	66.18	Pk	28.4	0	-40.4	54.18	-	-	74	-19.82	233	220	H
			* 2.39	52.14	RMS	28.4	1.28	-40.4	41.42	54	-12.58	-	-	233	220	H
			* 2.389956	52.64	RMS	28.4	1.28	-40.4	41.92	54	-12.08	-	-	233	220	H
			* 2.39	64.09	Pk	28.4	0	-40.4	52.09	-	-	74	-21.91	195	398	V
			* 2.389869	65.93	Pk	28.4	0	-40.4	53.93	-	-	74	-20.07	195	398	V
		3	* 2.39	51.43	RMS	28.4	1.28	-40.4	40.71	54	-13.29	-	-	195	398	V
			* 2.389752	52.15	RMS	28.4	1.28	-40.4	41.43	54	-12.57	-	-	195	398	V
			* 2.39	60.49	Pk	28.4	0	-40.4	48.49	-	-	74	-25.51	156	142	H
			* 2.328399	63.86	Pk	28.2	0	-40.5	51.56	-	-	74	-22.44	156	142	H
			* 2.39	51.28	RMS	28.4	1.28	-40.4	40.56	54	-13.44	-	-	156	142	H
			* 2.329782	51.56	RMS	28.2	1.28	-40.42	40.62	54	-13.38	-	-	156	142	H
			* 2.39	61.2	Pk	28.4	0	-40.4	49.2	-	-	74	-24.8	125	118	V
			* 2.362445	63.92	Pk	28.3	0	-40.4	51.82	-	-	74	-22.18	125	118	V
			* 2.39	50.55	RMS	28.4	1.28	-40.4	39.83	54	-14.17	-	-	125	118	V
			* 2.343304	51.31	RMS	28.3	1.28	-40.4	40.49	54	-13.51	-	-	125	118	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.2. LOW BAND EDGE – HIGH POWER – MIMO TXBF

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/Cb// Filtr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2404	4 + 3	* 2.39	54.61	Pk	32.3	-34.8	0	52.11	-	-	74	-21.89	214	161	H
			* 2.383271	56.59	Pk	32.2	-34.8	0	53.99	-	-	74	-20.01	214	161	H
			* 2.39	44.08	RMS	32.3	-34.8	1.3	42.88	54	-11.12	-	-	214	161	H
			* 2.388479	44.46	RMS	32.3	-34.8	1.3	43.26	54	-10.74	-	-	214	161	H
			* 2.39	54.18	Pk	32.3	-34.8	0	51.68	-	-	74	-22.32	163	303	V
			* 2.388184	56.9	Pk	32.3	-34.8	0	54.4	-	-	74	-19.6	163	303	V
			* 2.39	43.94	RMS	32.3	-34.8	1.3	42.74	54	-11.26	-	-	163	303	V
HDR8	2404	4 + 3	* 2.389985	44.37	RMS	32.3	-34.8	1.3	43.17	54	-10.83	-	-	163	303	V
			* 2.39	58.4	Pk	32.3	-34.8	0	55.9	-	-	74	-18.1	214	161	H
			* 2.389887	60.14	Pk	32.3	-34.8	0	57.64	-	-	74	-16.36	214	161	H
			* 2.39	45.76	RMS	32.3	-34.8	1.28	44.54	54	-9.46	-	-	214	161	H
			* 2.389887	46.25	RMS	32.3	-34.8	1.28	45.03	54	-8.97	-	-	214	161	H
			* 2.39	56.26	Pk	32.3	-34.8	0	53.76	-	-	74	-20.24	163	303	V
			* 2.38992	57.72	Pk	32.3	-34.8	0	55.22	-	-	74	-18.78	163	303	V
			* 2.39	44.69	RMS	32.3	-34.8	1.28	43.47	54	-10.53	-	-	163	303	V
			* 2.389674	45.11	RMS	32.3	-34.8	1.28	43.89	54	-10.11	-	-	163	303	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.3. LOW BAND EDGE – LOW POWER – SISO

Mode (SISO)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Filt/Pad (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2404	4	* 2.39	60.81	Pk	32.1	0	-39.53	53.38	-	-	74	-20.62	165	117	H
			* 2.318894	63.23	Pk	31.8	0	-39.62	55.41	-	-	74	-18.59	165	117	H
			* 2.39	50.39	RMS	32.1	1.3	-39.53	44.26	54	-9.74	-	-	165	117	H
			* 2.369636	51.05	RMS	32	1.3	-39.55	44.8	54	-9.2	-	-	165	117	H
			* 2.39	60.6	Pk	32.1	0	-39.53	53.17	-	-	74	-20.83	245	278	V
			* 2.369621	63.18	Pk	32	0	-39.55	55.63	-	-	74	-18.37	245	278	V
			* 2.39	49.42	RMS	32.1	1.3	-39.53	43.29	54	-10.71	-	-	245	278	V
			* 2.369621	50.99	RMS	32	1.3	-39.55	44.74	54	-9.26	-	-	245	278	V
		3	* 2.39	61.69	Pk	32.1	0	-39.53	54.26	-	-	74	-19.74	23	124	H
			* 2.356637	63.15	Pk	32	0	-39.58	55.57	-	-	74	-18.43	23	124	H
			* 2.39	49.45	RMS	32.1	1.3	-39.53	43.32	54	-10.68	-	-	23	124	H
			* 2.385007	50.85	RMS	32.1	1.3	-39.57	44.68	54	-9.32	-	-	23	124	H
			* 2.39	61.87	Pk	32.1	0	-39.53	54.44	-	-	74	-19.56	59	115	V
			* 2.359927	62.94	Pk	32	0	-39.58	55.36	-	-	74	-18.64	59	115	V
			* 2.39	50.09	RMS	32.1	1.3	-39.53	43.96	54	-10.04	-	-	59	115	V
			* 2.381761	50.91	RMS	32.1	1.3	-39.54	44.77	54	-9.23	-	-	59	115	V
HDR8	2404	4	* 2.39	61.05	Pk	32.1	0	-39.53	53.62	-	-	74	-20.38	162	119	H
			* 2.354774	63.55	Pk	32	0	-39.58	55.97	-	-	74	-18.03	162	119	H
			* 2.39	50.5	RMS	32.1	1.28	-39.53	44.35	54	-9.65	-	-	162	119	H
			* 2.358996	51.24	RMS	32	1.28	-39.59	44.93	54	-9.07	-	-	162	119	H
			* 2.39	61.01	Pk	32.1	0	-39.53	53.58	-	-	74	-20.42	244	127	V
			* 2.384454	63.49	Pk	32.1	0	-39.55	56.04	-	-	74	-17.96	244	127	V
			* 2.39	49.72	RMS	32.1	1.28	-39.53	43.57	54	-10.43	-	-	244	127	V
			* 2.367947	51.1	RMS	32	1.28	-39.52	44.86	54	-9.14	-	-	244	127	V
		3	* 2.39	61.13	Pk	32.1	0	-39.53	53.7	-	-	74	-20.3	19	148	H
			* 2.385167	62.95	Pk	32.1	0	-39.56	55.49	-	-	74	-18.51	19	148	H
			* 2.39	49.98	RMS	32.1	1.28	-39.53	43.83	54	-10.17	-	-	19	148	H
			* 2.389971	50.96	RMS	32.1	1.28	-39.53	44.81	54	-9.19	-	-	19	148	H
			* 2.39	60.58	Pk	32.1	0	-39.53	53.15	-	-	74	-20.85	64	101	V
			* 2.381863	62.77	Pk	32.1	0	-39.54	55.33	-	-	74	-18.67	64	101	V
			* 2.39	49.22	RMS	32.1	1.28	-39.53	43.07	54	-10.93	-	-	64	101	V
			* 2.371252	50.95	RMS	32	1.28	-39.52	44.71	54	-9.29	-	-	64	101	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

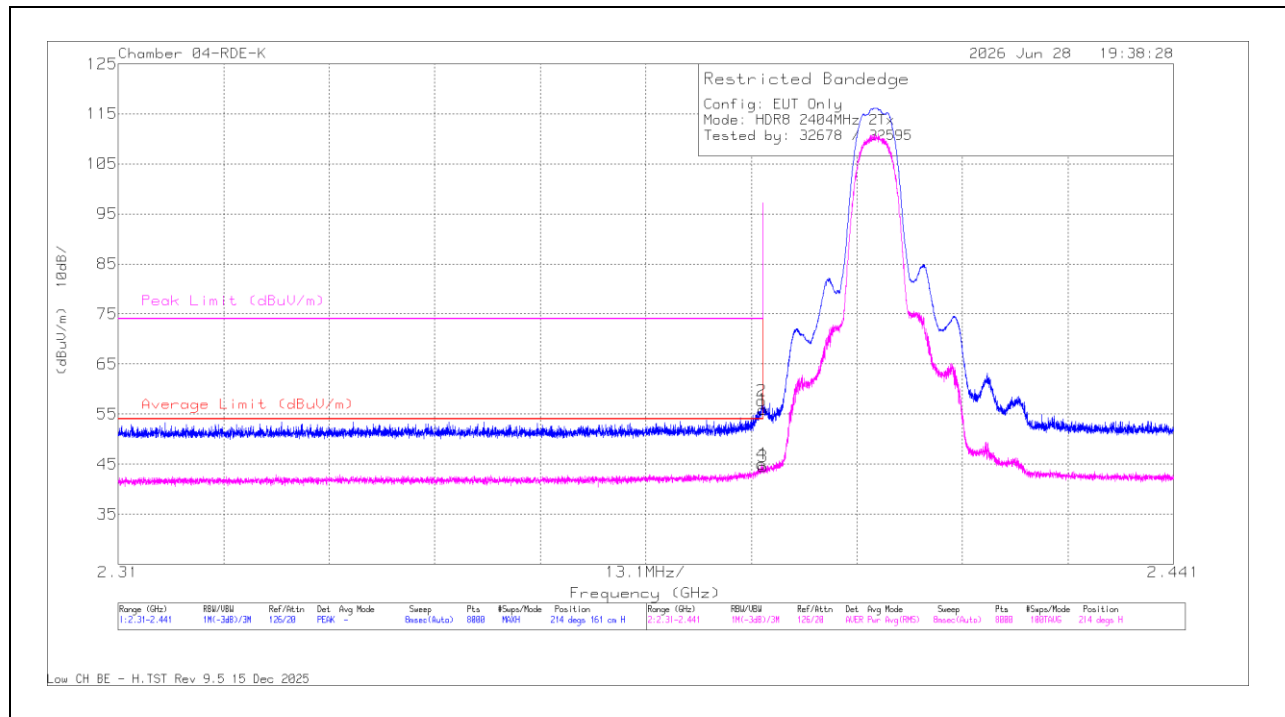
10.1.4. LOW BAND EDGE – LOW POWER – MIMO TXBF

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2404	4 + 3	* 2.39	53.34	Pk	32.3	-34.8	0	50.84	-	-	74	-23.16	65	105	H
			* 2.377703	56.33	Pk	32.2	-34.9	0	53.63	-	-	74	-20.37	65	105	H
			* 2.39	43.11	RMS	32.3	-34.8	1.3	41.89	54	-12.11	-	-	65	105	H
			* 2.383778	44.46	RMS	32.2	-34.8	1.3	43.14	54	-10.86	-	-	65	105	H
			* 2.39	54.48	Pk	32.3	-34.8	0	51.98	-	-	74	-22.02	346	308	V
			* 2.344359	56.81	Pk	32	-35	0	53.81	-	-	74	-20.19	346	308	V
			* 2.39	42.8	RMS	32.3	-34.8	1.3	41.6	54	-12.4	-	-	346	308	V
HDR8	2404	4 + 3	* 2.343884	44.75	RMS	32	-35	1.3	43.05	54	-10.95	-	-	346	308	V
			* 2.39	54.31	Pk	32.3	-34.8	0	51.81	-	-	74	-22.19	65	105	H
			* 2.371266	56.54	Pk	32.1	-34.9	0	53.74	-	-	74	-20.26	65	105	H
			* 2.39	43.41	RMS	32.3	-34.8	1.28	42.19	54	-11.81	-	-	65	105	H
			* 2.329783	44.58	RMS	32	-35	1.28	42.86	54	-11.14	-	-	65	105	H
			* 2.39	53.81	Pk	32.3	-34.8	0	51.31	-	-	74	-22.69	346	308	V
			* 2.387578	56.4	Pk	32.3	-34.8	0	53.9	-	-	74	-20.1	346	308	V
			* 2.39	43.39	RMS	32.3	-34.8	1.28	42.17	54	-11.83	-	-	346	308	V
			* 2.387725	44.35	RMS	32.3	-34.8	1.28	43.13	54	-10.87	-	-	346	308	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.5. LOW BAND EDGE – WORST-CASE**HDR8 / 2404 MHz / HIGH POWER / MIMO TXBF****HORIZONTAL RESULT****MEASURED DATA**

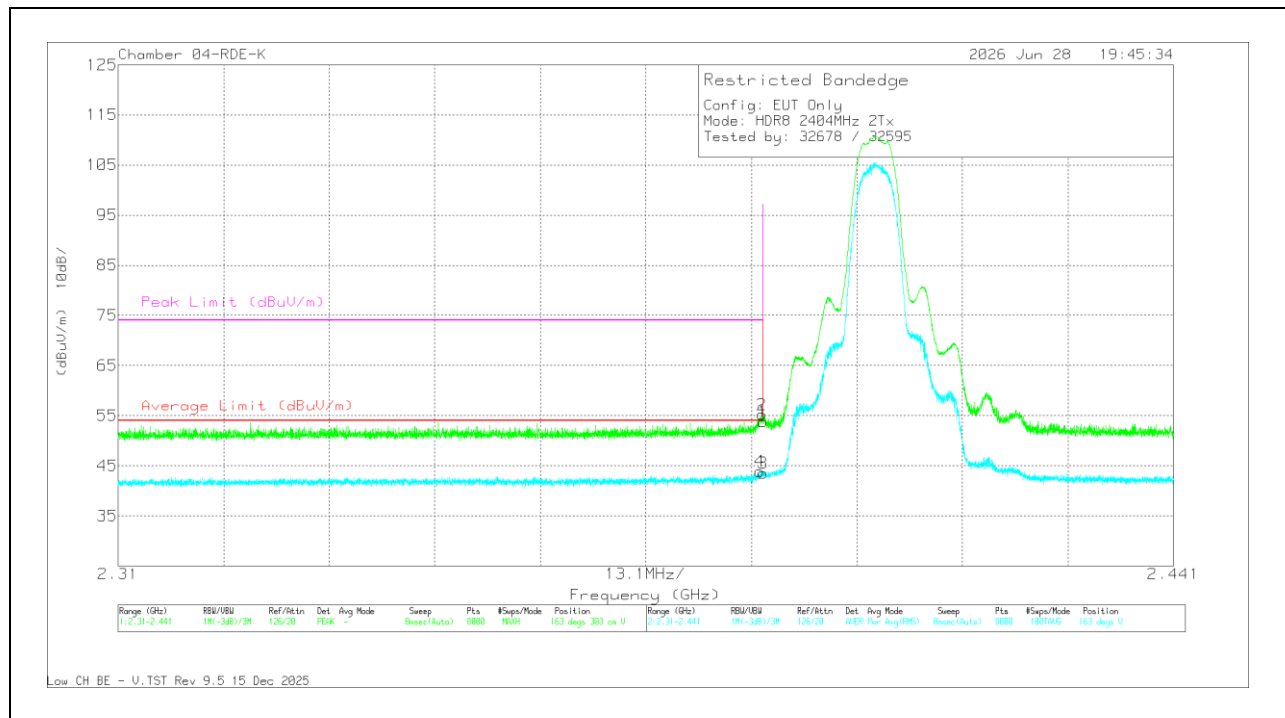
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	58.4	Pk	32.3	-34.8	0	55.9	-	-	74	-18.1	214	161	H
2	* 2.389887	60.14	Pk	32.3	-34.8	0	57.64	-	-	74	-16.36	214	161	H
3	* 2.39	45.76	RMS	32.3	-34.8	1.28	44.54	54	-9.46	-	-	214	161	H
4	* 2.389887	46.25	RMS	32.3	-34.8	1.28	45.03	54	-8.97	-	-	214	161	H

* - indicates frequency in 47 CFR Part 15/ IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



MEASURED DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206806 ACF (dB/m)	Amp/Cbl/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	56.26	Pk	32.3	-34.8	0	53.76	-	-	74	-20.24	163	303	V
2	* 2.38992	57.72	Pk	32.3	-34.8	0	55.22	-	-	74	-18.78	163	303	V
3	* 2.39	44.69	RMS	32.3	-34.8	1.28	43.47	54	-10.53	-	-	163	303	V
4	* 2.389674	45.11	RMS	32.3	-34.8	1.28	43.89	54	-10.11	-	-	163	303	V

* - indicates frequency in 47 CFR Part 15/ IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.6. HIGH BAND EDGE – HIGH POWER – SISO

Mode (SISO)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Fitr/Pad (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2476	4	* 2.4835	64.31	Pk	32.2	0	-40.2	56.31	-	-	74	-17.69	132	167	H
			* 2.483769	65.29	Pk	32.2	0	-40.2	57.29	-	-	74	-16.71	132	167	H
			* 2.4835	51.33	RMS	32.2	1.3	-40.2	44.63	54	-9.37	-	-	132	167	H
			* 2.483566	52.22	RMS	32.2	1.3	-40.2	45.52	54	-8.48	-	-	132	167	H
			* 2.4835	60.98	Pk	32.2	0	-40.2	52.98	-	-	74	-21.02	88	122	V
			2.547496	63.52	Pk	32.4	0	-39.9	56.02	-	-	-	-	88	122	V
			* 2.4835	50.32	RMS	32.2	1.3	-40.2	43.62	54	-10.38	-	-	88	122	V
			2.560306	51.26	RMS	32.4	1.3	-39.8	45.16	-	-	-	-	88	122	V
		3	* 2.4835	56.53	Pk	32.1	0	-34.5	54.13	-	-	74	-19.87	272	269	H
			* 2.483645	58.24	Pk	32.1	0	-34.5	55.84	-	-	74	-18.16	272	269	H
			* 2.4835	44.56	RMS	32.1	1.3	-34.5	43.46	54	-10.54	-	-	272	269	H
			* 2.484361	45.36	RMS	32.1	1.3	-34.5	44.26	54	-9.74	-	-	272	269	H
			* 2.4835	56.91	Pk	32.1	0	-34.5	54.51	-	-	74	-19.49	318	101	V
			* 2.484194	58.31	Pk	32.1	0	-34.5	55.91	-	-	74	-18.09	318	101	V
			* 2.4835	44.84	RMS	32.1	1.3	-34.5	43.74	54	-10.26	-	-	318	101	V
			* 2.483599	45.52	RMS	32.1	1.3	-34.5	44.42	54	-9.58	-	-	318	101	V
HDR8	2476	4	* 2.4835	61.63	Pk	32.2	0	-34	59.83	-	-	74	-14.17	29	116	H
			* 2.485518	63.45	Pk	32.3	0	-33.99	61.76	-	-	74	-12.24	29	116	H
			* 2.4835	50.83	RMS	32.2	1.28	-34	50.31	54	-3.69	-	-	29	116	H
			* 2.485857	50.79	RMS	32.3	1.28	-33.99	50.38	54	-3.62	-	-	29	116	H
			* 2.4835	61.31	Pk	32.2	0	-34	59.51	-	-	74	-14.49	17	294	V
			* 2.484095	62.33	Pk	32.2	0	-33.99	60.54	-	-	74	-13.46	17	294	V
			* 2.4835	49.25	RMS	32.2	1.28	-34	48.73	54	-5.27	-	-	17	294	V
			* 2.483688	50.37	RMS	32.2	1.28	-33.99	49.86	54	-4.14	-	-	17	294	V
		3	* 2.4835	65.45	Pk	32.2	0	-40.55	57.1	-	-	74	-16.9	337	173	H
			* 2.4835	54.73	RMS	32.2	1.28	-40.55	47.66	54	-6.34	-	-	337	173	H
			* 2.483593	55.21	RMS	32.2	1.28	-40.55	48.14	54	-5.86	-	-	337	173	H
			* 2.485965	68.86	Pk	32.2	0	-40.54	60.52	-	-	74	-13.48	337	173	H
			* 2.4835	66.83	Pk	32.2	0	-40.55	58.48	-	-	74	-15.52	22	114	V
			* 2.4835	55.49	RMS	32.2	1.28	-40.55	48.42	54	-5.58	-	-	22	114	V
			* 2.483525	56.33	RMS	32.2	1.28	-40.55	49.26	54	-4.74	-	-	22	114	V
			* 2.485938	69.71	Pk	32.2	0	-40.54	61.37	-	-	74	-12.63	22	114	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.7. HIGH BAND EDGE – HIGH POWER – MIMO TXBF

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/Cb// Filtr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2476	4 + 3	* 2.4835	64.43	Pk	32.1	-34.5	0	62.03	-	-	74	-11.97	217	148	H
			* 2.483538	64.93	Pk	32.1	-34.5	0	62.53	-	-	74	-11.47	217	148	H
			* 2.4835	49.41	RMS	32.1	-34.5	1.3	48.31	54	-5.69	-	-	217	148	H
			* 2.483523	50.53	RMS	32.1	-34.5	1.3	49.43	54	-4.57	-	-	217	148	H
			* 2.4835	55.43	Pk	32.1	-34.5	0	53.03	-	-	74	-20.97	5	329	V
			* 2.486878	56.63	Pk	32.1	-34.4	0	54.33	-	-	74	-19.67	5	329	V
			* 2.4835	44.12	RMS	32.1	-34.5	1.3	43.02	54	-10.98	-	-	5	329	V
HDR8	2476	4 + 3	* 2.485063	44.56	RMS	32.1	-34.4	1.3	43.56	54	-10.44	-	-	5	329	V
			* 2.4835	61.87	Pk	32.1	-34.5	0	59.47	-	-	74	-14.53	217	148	H
			* 2.485902	63.1	Pk	32.1	-34.4	0	60.8	-	-	74	-13.2	217	148	H
			* 2.4835	49.12	RMS	32.1	-34.5	1.28	48	54	-6	-	-	217	148	H
			* 2.483721	49.77	RMS	32.1	-34.5	1.28	48.65	54	-5.35	-	-	217	148	H
			* 2.4835	56.56	Pk	32.1	-34.5	0	54.16	-	-	74	-19.84	5	329	V
			* 2.485841	57.97	Pk	32.1	-34.4	0	55.67	-	-	74	-18.33	5	329	V
			* 2.4835	45.11	RMS	32.1	-34.5	1.28	43.99	54	-10.01	-	-	5	329	V
			* 2.483553	45.74	RMS	32.1	-34.5	1.28	44.62	54	-9.38	-	-	5	329	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.8. HIGH BAND EDGE – LOW POWER – SISO

Mode (SISO)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	DCCF (dB)	Amp/Cbl/ Fitr/Pad (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2476	4	* 2.4835	60.97	Pk	32.3	0	-39.37	53.9	-	-	74	-20.1	172	107	H
			* 2.48606	63.78	Pk	32.4	0	-39.35	56.83	-	-	74	-17.17	172	107	H
			* 2.4835	49.38	RMS	32.3	1.3	-39.37	43.61	54	-10.39	-	-	172	107	H
			2.562082	50.85	RMS	32.3	1.3	-39.12	45.33	-	-	-	-	172	107	H
			* 2.4835	60.5	Pk	32.3	0	-39.37	53.43	-	-	74	-20.57	148	366	V
			* 2.485884	63.23	Pk	32.4	0	-39.35	56.28	-	-	74	-17.72	148	366	V
			* 2.4835	49.73	RMS	32.3	1.3	-39.37	43.96	54	-10.04	-	-	148	366	V
			* 2.494614	51.03	RMS	32.4	1.3	-39.3	45.43	54	-8.57	-	-	148	366	V
		3	* 2.4835	60.66	Pk	32.3	0	-39.37	53.59	-	-	74	-20.41	109	158	H
			2.561242	63.11	Pk	32.3	0	-39.18	56.23	-	-	-	-	109	158	H
			* 2.4835	50.07	RMS	32.3	1.3	-39.37	44.3	54	-9.7	-	-	109	158	H
			2.553325	50.8	RMS	32.3	1.3	-39.14	45.26	-	-	-	-	109	158	H
			* 2.4835	60.4	Pk	32.3	0	-39.37	53.33	-	-	74	-20.67	73	101	V
			2.506448	63.16	Pk	32.4	0	-39.31	56.25	-	-	-	-	73	101	V
			* 2.4835	49.96	RMS	32.3	1.3	-39.37	44.19	54	-9.81	-	-	73	101	V
			2.531378	50.88	RMS	32.3	1.3	-39.26	45.22	-	-	-	-	73	101	V
HDR8	2476	4	* 2.4835	60.55	Pk	32.3	0	-39.37	53.48	-	-	74	-20.52	167	185	H
			* 2.498396	63.13	Pk	32.4	0	-39.33	56.2	-	-	74	-17.8	167	185	H
			* 2.4835	49.98	RMS	32.3	1.28	-39.37	44.19	54	-9.81	-	-	167	185	H
			* 2.491103	50.82	RMS	32.4	1.28	-39.34	45.16	54	-8.84	-	-	167	185	H
			* 2.4835	59.87	Pk	32.3	0	-39.37	52.8	-	-	74	-21.2	131	366	V
			2.512738	63.22	Pk	32.3	0	-39.29	56.23	-	-	-	-	131	366	V
			* 2.4835	50.12	RMS	32.3	1.28	-39.37	44.33	54	-9.67	-	-	131	366	V
			2.545964	50.94	RMS	32.3	1.28	-39.16	45.36	-	-	-	-	131	366	V
		3	* 2.4835	61.23	Pk	32.3	0	-39.37	54.16	-	-	74	-19.84	26	211	H
			2.51061	63.7	Pk	32.3	0	-39.3	56.7	-	-	-	-	26	211	H
			* 2.4835	49.95	RMS	32.3	1.28	-39.37	44.16	54	-9.84	-	-	26	211	H
			2.539064	50.88	RMS	32.3	1.28	-39.22	45.24	-	-	-	-	26	211	H
			* 2.4835	60.48	Pk	32.3	0	-39.37	53.41	-	-	74	-20.59	74	129	V
			2.532489	63.24	Pk	32.3	0	-39.27	56.27	-	-	-	-	74	129	V
			* 2.4835	49.9	RMS	32.3	1.28	-39.37	44.11	54	-9.89	-	-	74	129	V
			2.504171	50.75	RMS	32.4	1.28	-39.29	45.14	-	-	-	-	74	129	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

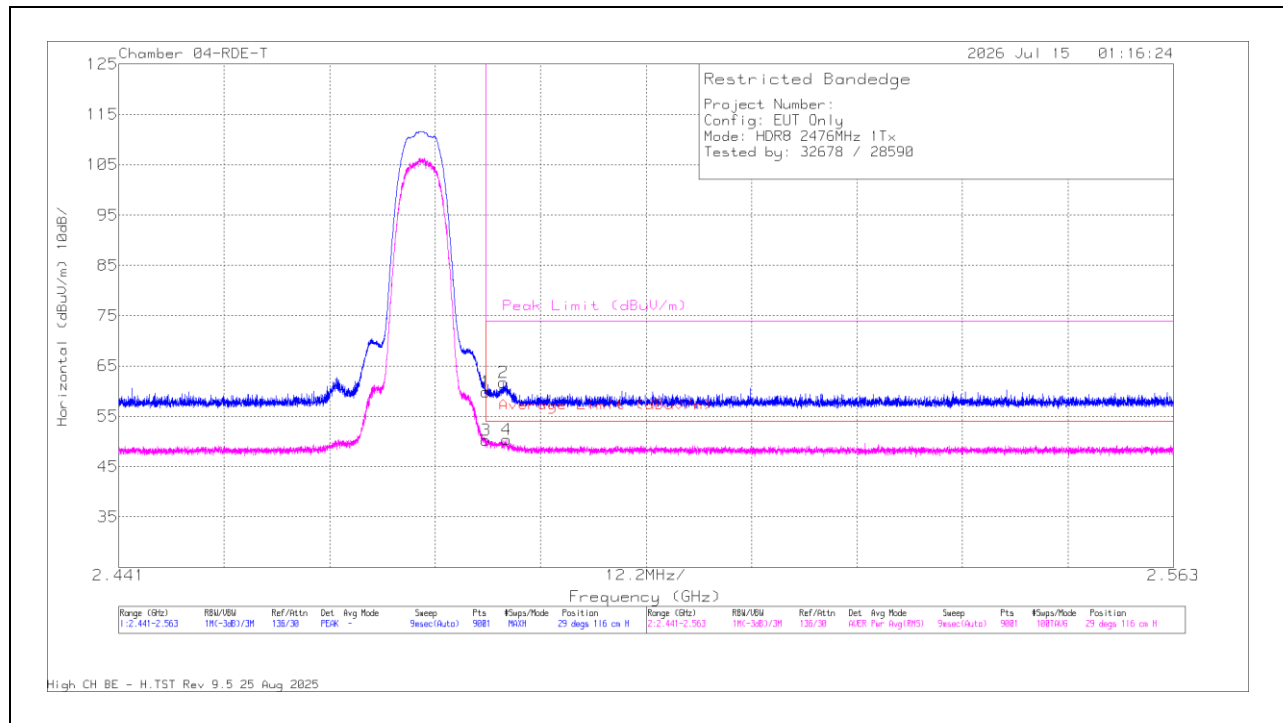
10.1.9. HIGH BAND EDGE – LOW POWER – MIMO TXBF

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/Cb/ Filt/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2476	4 + 3	* 2.4835	54.95	Pk	32.1	-34.5	0	52.55	-	-	74	-21.45	74	109	H
			* 2.485292	55.92	Pk	32.1	-34.4	0	53.62	-	-	74	-20.38	74	109	H
			* 2.4835	43.15	RMS	32.1	-34.5	1.3	42.05	54	-11.95	-	-	74	109	H
			* 2.484056	44.17	RMS	32.1	-34.5	1.3	43.07	54	-10.93	-	-	74	109	H
			* 2.4835	53.51	Pk	32.1	-34.5	0	51.11	-	-	74	-22.89	297	139	V
			2.51816	56.22	Pk	32.1	-34.4	0	53.92	-	-	-	-	297	139	V
			* 2.4835	43.18	RMS	32.1	-34.5	1.3	42.08	54	-11.92	-	-	297	139	V
HDR8	2476	4 + 3	2.521485	43.81	RMS	32.1	-34.3	1.3	42.91	-	-	-	-	297	139	V
			* 2.4835	54.25	Pk	32.1	-34.5	0	51.85	-	-	74	-22.15	74	109	H
			* 2.483599	56.51	Pk	32.1	-34.5	0	54.11	-	-	74	-19.89	74	109	H
			* 2.4835	43.75	RMS	32.1	-34.5	1.28	42.63	54	-11.37	-	-	74	109	H
			* 2.484011	44.36	RMS	32.1	-34.5	1.28	43.24	54	-10.76	-	-	74	109	H
			* 2.4835	53.24	Pk	32.1	-34.5	0	50.84	-	-	74	-23.16	297	139	V
			2.555924	56.15	Pk	31.8	-34.3	0	53.65	-	-	-	-	297	139	V
			* 2.4835	43.02	RMS	32.1	-34.5	1.28	41.9	54	-12.1	-	-	297	139	V
			2.525603	43.95	RMS	32	-34.4	1.28	42.83	-	-	-	-	297	139	V

* - indicates frequency in 47 CFR Part 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.10. HIGH BAND EDGE – WORST-CASE**HDR8 / 2476 MHz / HIGH POWER / SISO ANT 4****HORIZONTAL RESULT****MEASURED DATA**

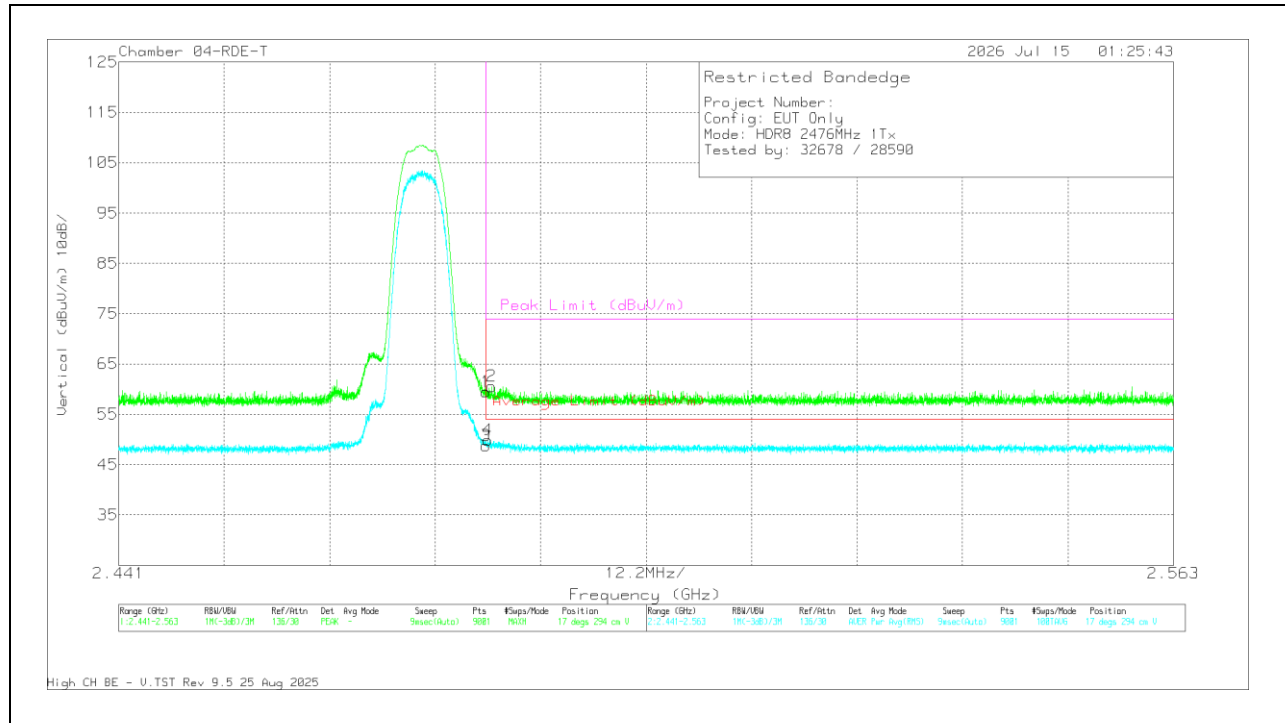
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	79834 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.63	Pk	32.2	0	-34	59.83	-	-	74	-14.17	29	116	H
2	* 2.485518	63.45	Pk	32.3	0	-33.99	61.76	-	-	74	-12.24	29	116	H
3	* 2.4835	50.83	RMS	32.2	1.28	-34	50.31	54	-3.69	-	-	29	116	H
4	* 2.485857	50.79	RMS	32.3	1.28	-33.99	50.38	54	-3.62	-	-	29	116	H

* - indicates frequency in 47 CFR Part 15/ IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



MEASURED DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	79834 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	* 2.4835	61.31	Pk	32.2	0	-34	59.51	-	-	74	-14.49	17	294	V
2	* 2.484095	62.33	Pk	32.2	0	-33.99	60.54	-	-	74	-13.46	17	294	V
3	* 2.4835	49.25	RMS	32.2	1.28	-34	48.73	54	-5.27	-	-	17	294	V
4	* 2.483688	50.37	RMS	32.2	1.28	-33.99	49.86	54	-4.14	-	-	17	294	V

* - indicates frequency in 47 CFR Part 15/ IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.1.11. SPURIOUS EMISSIONS – HIGH POWER – MIMO TXBF

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/Cbl/ Ftr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR4	2404	4 + 3	* 1.21585	62.3	PK2	28.9	-40.5	0	50.7	-	-	74	-23.3	2	200	H
			* 1.202837	49.8	MAv1	28.7	-40.5	1.3	39.3	54	-14.7	-	-	2	200	H
			* 1.213257	61.67	PK2	28.8	-40.5	0	49.97	-	-	74	-24.03	2	200	V
			* 1.209584	49.74	MAv1	28.8	-40.5	1.3	39.34	54	-14.66	-	-	2	200	V
			* 4.835357	59.42	PK2	34.1	-48.7	0	44.82	-	-	74	-29.18	2	101	H
			* 4.822153	47.76	MAv1	34.1	-48.62	1.3	34.54	54	-19.46	-	-	2	101	H
			* 4.809286	59.44	PK2	34.1	-48.5	0	45.04	-	-	74	-28.96	2	101	V
			* 4.829046	47.77	MAv1	34.1	-48.6	1.3	34.57	54	-19.43	-	-	2	101	V
			7.202003	45.82	MAv1	35.7	-46.8	1.3	36.02	-	-	-	-	2	200	V
			7.230994	58.29	PK2	35.7	-46.8	0	47.19	-	-	-	-	2	200	V
			7.232343	46.08	MAv1	35.7	-46.93	1.3	36.15	-	-	-	-	2	200	H
			7.232449	57.69	PK2	35.7	-46.94	0	46.45	-	-	-	-	2	200	H
	2441	4 + 3	* 4.883701	51.87	PK2	34.1	-40.5	0	45.47	-	-	74	-28.53	360	200	H
			* 4.892503	51.62	PK2	34.1	-40.4	0	45.32	-	-	74	-28.68	44	100	V
			* 4.893334	39.55	MAv1	34.1	-40.4	1.3	34.55	54	-19.45	-	-	44	100	V
			* 4.898105	39.49	MAv1	34.1	-40.4	1.3	34.49	54	-19.51	-	-	360	200	H
			* 7.269304	48.54	PK2	35.8	-38.3	0	46.04	-	-	74	-27.96	44	100	V
			* 7.279709	36.6	MAv1	35.8	-38.2	1.3	35.5	54	-18.5	-	-	44	100	V
			* 7.305007	48.62	PK2	35.8	-38	0	46.42	-	-	74	-27.58	360	200	H
			* 7.317491	36.71	MAv1	35.8	-37.9	1.3	35.91	54	-18.09	-	-	360	200	H
			9.726304	48.88	PK2	36.8	-36.4	0	49.28	-	-	-	-	44	100	V
			9.735113	36.99	MAv1	36.8	-36.3	1.3	38.79	-	-	-	-	44	100	V
			9.759028	48.79	PK2	36.8	-36.4	0	49.19	-	-	-	-	360	200	H
			9.764592	36.81	MAv1	36.8	-36.4	1.3	38.51	-	-	-	-	360	200	H
	2476	4 + 3	* 4.939834	39.34	MAv1	34	-40.5	1.3	34.14	54	-19.86	-	-	360	101	H
			* 4.939887	39.41	MAv1	34	-40.5	1.3	34.21	54	-19.79	-	-	44	101	V
			* 4.946985	51.6	PK2	34	-40.5	0	45.1	-	-	74	-28.9	44	101	V
			* 4.949505	51.13	PK2	33.9	-40.5	0	44.53	-	-	74	-29.47	360	101	H
			* 7.388842	48.32	PK2	35.8	-37.8	0	46.32	-	-	74	-27.68	44	200	V
			* 7.393385	36.59	MAv1	35.8	-37.8	1.3	35.89	54	-18.11	-	-	44	200	V
			* 7.441226	36.62	MAv1	35.8	-37.8	1.3	35.92	54	-18.08	-	-	360	200	H
			* 7.441604	48.44	PK2	35.8	-37.8	0	46.44	-	-	74	-27.56	360	200	H
			9.89931	35.65	MAv1	36.9	-36.3	1.3	37.55	-	-	-	-	44	200	V
			9.908692	47.38	PK2	37	-36.3	0	48.08	-	-	-	-	44	200	V
			9.918916	35.98	MAv1	37	-36.4	1.3	37.88	-	-	-	-	360	200	H
			9.924031	47.78	PK2	37	-36.5	0	48.28	-	-	-	-	360	200	H

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

PK2 - KDB558074 Method: Maximum Peak

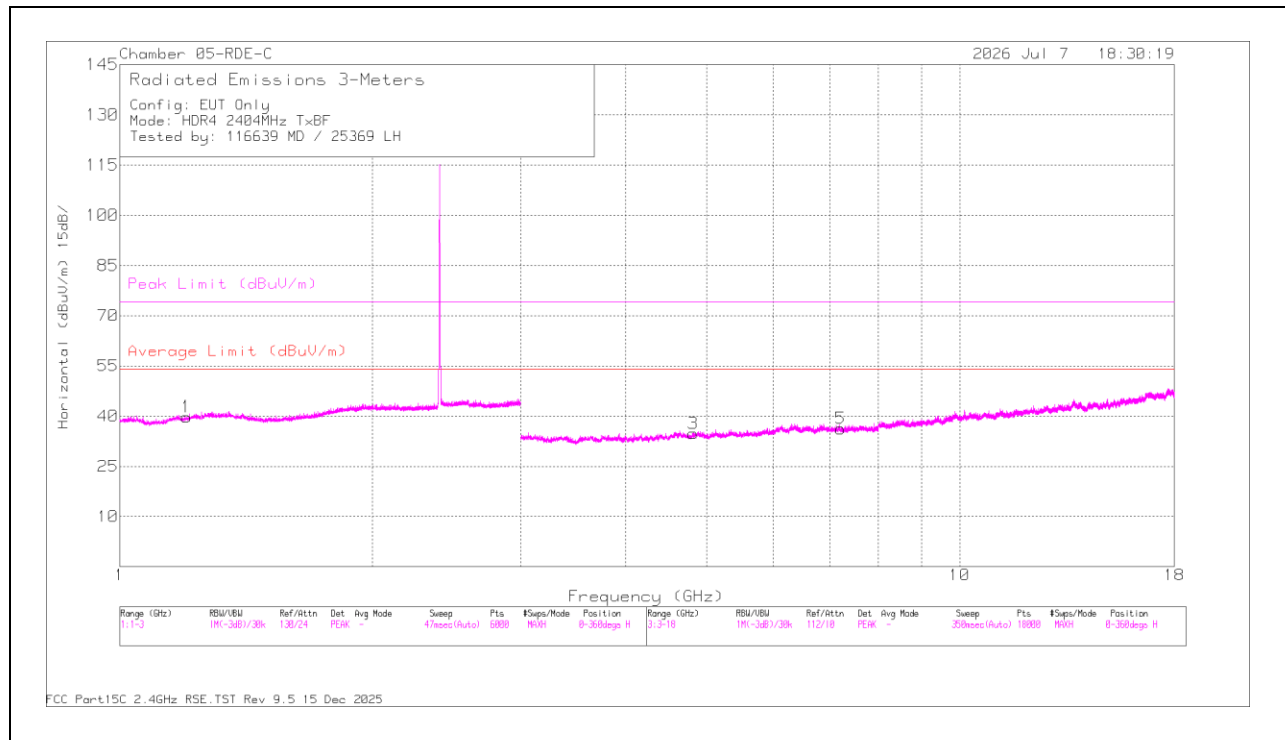
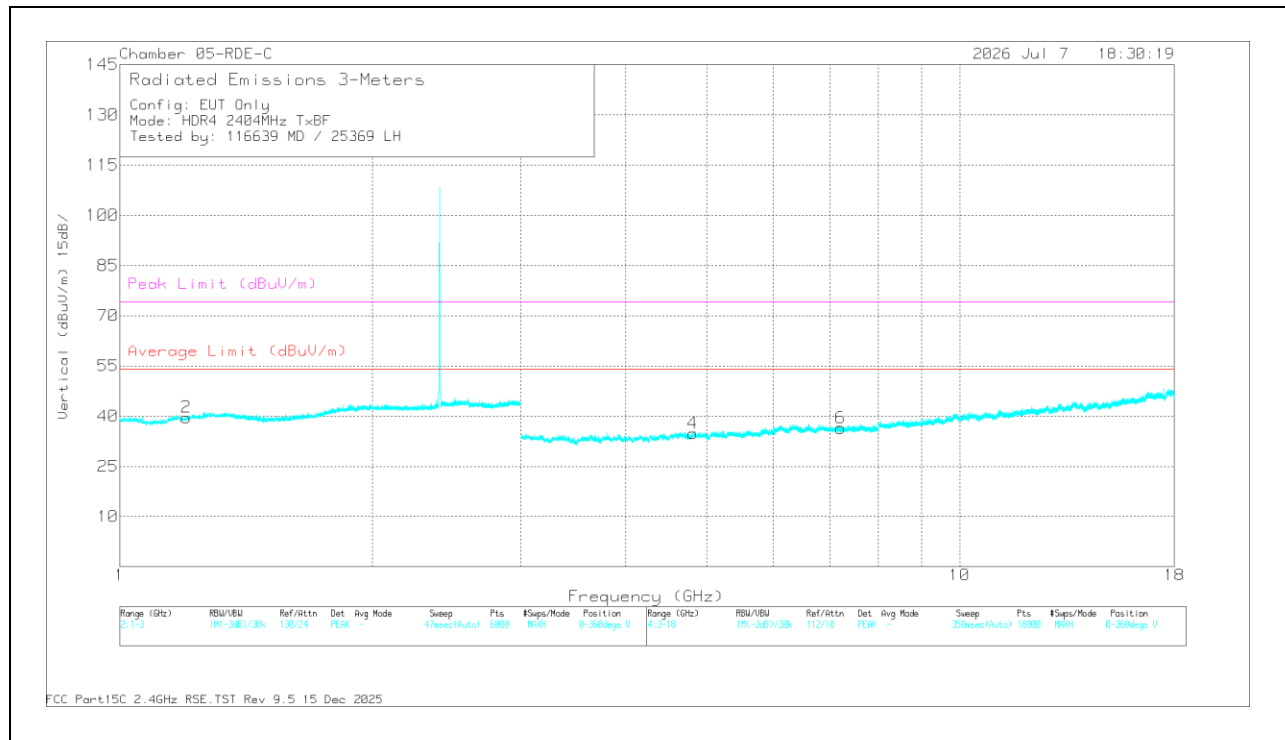
MAv1 - KDB558074 Option 1 Maximum RMS Average

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	DCCF (dB)	Correct Reading (dBuV/m)	Average Limit (dBuV/m)	Average Margin (dB)	Peak Limit (dBuV/m)	Peak Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
HDR8	2404	4 + 3	* 4.808775	42.72	MAv1	34.3	-44.5	1.28	33.8	54	-20.2	-	-	360	101	H
			* 4.817848	54.11	PK2	34.3	-44.5	0	43.91	-	-	74	-30.09	360	199	V
			* 4.81957	54.91	PK2	34.3	-44.5	0	44.71	-	-	74	-29.29	360	101	H
			* 4.827261	42.54	MAv1	34.3	-44.4	1.28	33.72	54	-20.28	-	-	360	199	V
			7.194491	51.94	PK2	35.5	-41.7	0	45.74	-	-	-	-	360	101	H
			7.201527	40.28	MAv1	35.5	-41.7	1.28	35.36	-	-	-	-	360	101	H
			7.229825	52.09	PK2	35.5	-41.7	0	45.89	-	-	-	-	360	199	V
			7.230638	39.96	MAv1	35.5	-41.7	1.28	35.04	-	-	-	-	360	199	V
			9.625428	52.58	PK2	37	-39.9	0	49.68	-	-	-	-	360	199	V
			9.629735	52.25	PK2	37	-39.9	0	49.35	-	-	-	-	360	101	H
	2441	4 + 3	9.631131	40.79	MAv1	37	-39.9	1.28	39.17	-	-	-	-	360	101	H
			9.633175	40.64	MAv1	37	-39.9	1.28	39.02	-	-	-	-	360	199	V
			* 4.884996	51.14	PK2	34.1	-40.5	0	44.74	-	-	74	-29.26	44	200	V
			* 4.888983	39.4	MAv1	34.1	-40.4	1.28	34.38	54	-19.62	-	-	44	200	V
			* 4.890534	51.37	PK2	34.1	-40.4	0	45.07	-	-	74	-28.93	193	200	H
			* 4.893969	39.63	MAv1	34.1	-40.4	1.28	34.61	54	-19.39	-	-	193	200	H
			* 7.295586	48.43	PK2	35.7	-38.1	0	46.03	-	-	74	-27.97	44	101	V
			* 7.323086	36.51	MAv1	35.8	-37.9	1.28	35.69	54	-18.31	-	-	193	101	H
			* 7.327457	36.56	MAv1	35.8	-37.9	1.28	35.74	54	-18.26	-	-	44	101	V
			* 7.334358	48.04	PK2	35.8	-37.9	0	45.94	-	-	74	-28.06	193	101	H
	2476	4 + 3	9.71407	48.67	PK2	36.8	-36.4	0	49.07	-	-	-	-	44	200	V
			9.729692	36.5	MAv1	36.8	-36.4	1.28	38.18	-	-	-	-	44	200	V
			9.754059	36.83	MAv1	36.8	-36.4	1.28	38.51	-	-	-	-	193	200	H
			9.759188	48.96	PK2	36.8	-36.4	0	49.36	-	-	-	-	193	200	H
			* 4.927005	51.95	PK2	34	-40.4	0	45.55	-	-	74	-28.45	44	200	V
			* 4.945742	39.37	MAv1	34	-40.5	1.28	34.15	54	-19.85	-	-	44	200	V
			* 4.949158	51.65	PK2	33.9	-40.5	0	45.05	-	-	74	-28.95	360	199	H
			* 4.950878	39.59	MAv1	34	-40.5	1.28	34.37	54	-19.63	-	-	360	199	H
			* 7.429657	48.55	PK2	35.8	-37.8	0	46.55	-	-	74	-27.45	44	200	V
			* 7.441102	36.51	MAv1	35.8	-37.8	1.28	35.79	54	-18.21	-	-	44	200	V
			* 7.443368	48.43	PK2	35.8	-37.8	0	46.43	-	-	74	-27.57	360	199	H
			* 7.446812	36.65	MAv1	35.8	-37.8	1.28	35.93	54	-18.07	-	-	360	199	H
			9.907323	47.68	PK2	37	-36.3	0	48.38	-	-	-	-	44	101	V
			9.916096	47.38	PK2	37	-36.4	0	47.98	-	-	-	-	360	101	H
			9.92114	35.81	MAv1	37	-36.4	1.28	37.69	-	-	-	-	360	101	H
			9.929736	35.9	MAv1	37	-36.5	1.28	37.68	-	-	-	-	44	101	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.1.12. SPURIOUS EMISSIONS – WORST-CASE**HDR4 / 2404 MHz / HIGH POWER / MIMO TXBF****HORIZONTAL RESULT****VERTICAL RESULT**

MEASURED DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 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	* 1.21585	62.3	PK2	28.9	0	-40.5	50.7	-	-	74	-23.3	2	200	H
	* 1.202837	49.8	MAv1	28.7	1.3	-40.5	39.3	54	-14.7	-	-	2	200	H
2	* 1.213257	61.67	PK2	28.8	0	-40.5	49.97	-	-	74	-24.03	2	200	V
	* 1.209584	49.74	MAv1	28.8	1.3	-40.5	39.34	54	-14.66	-	-	2	200	V
3	* 4.835357	59.42	PK2	34.1	0	-48.7	44.82	-	-	74	-29.18	2	101	H
	* 4.822153	47.76	MAv1	34.1	1.3	-48.62	34.54	54	-19.46	-	-	2	101	H
4	* 4.809286	59.44	PK2	34.1	0	-48.5	45.04	-	-	74	-28.96	2	101	V
	* 4.829046	47.77	MAv1	34.1	1.3	-48.6	34.57	54	-19.43	-	-	2	101	V
6	7.202003	45.82	MAv1	35.7	1.3	-46.8	36.02	-	-	-	-	2	200	V
	7.230994	58.29	PK2	35.7	0	-46.8	47.19	-	-	-	-	2	200	V
5	7.232343	46.08	MAv1	35.7	1.3	-46.93	36.15	-	-	-	-	2	200	H
	7.232449	57.69	PK2	35.7	0	-46.94	46.45	-	-	-	-	2	200	H

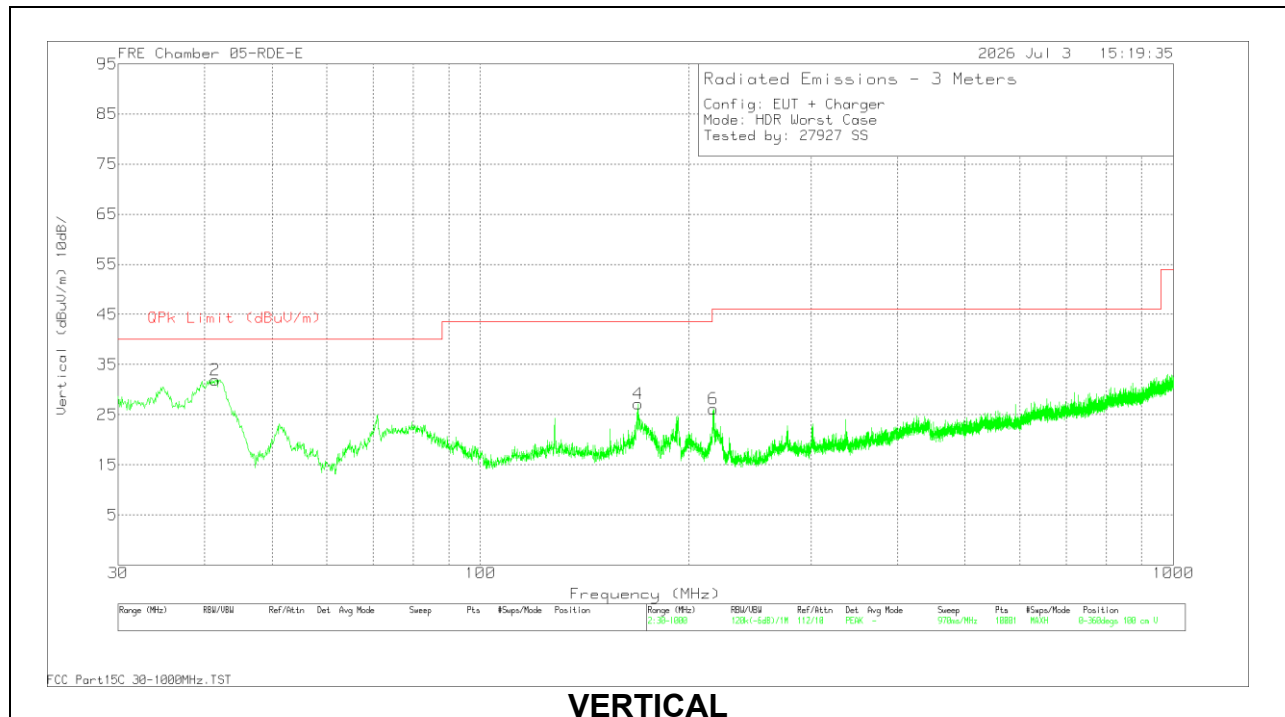
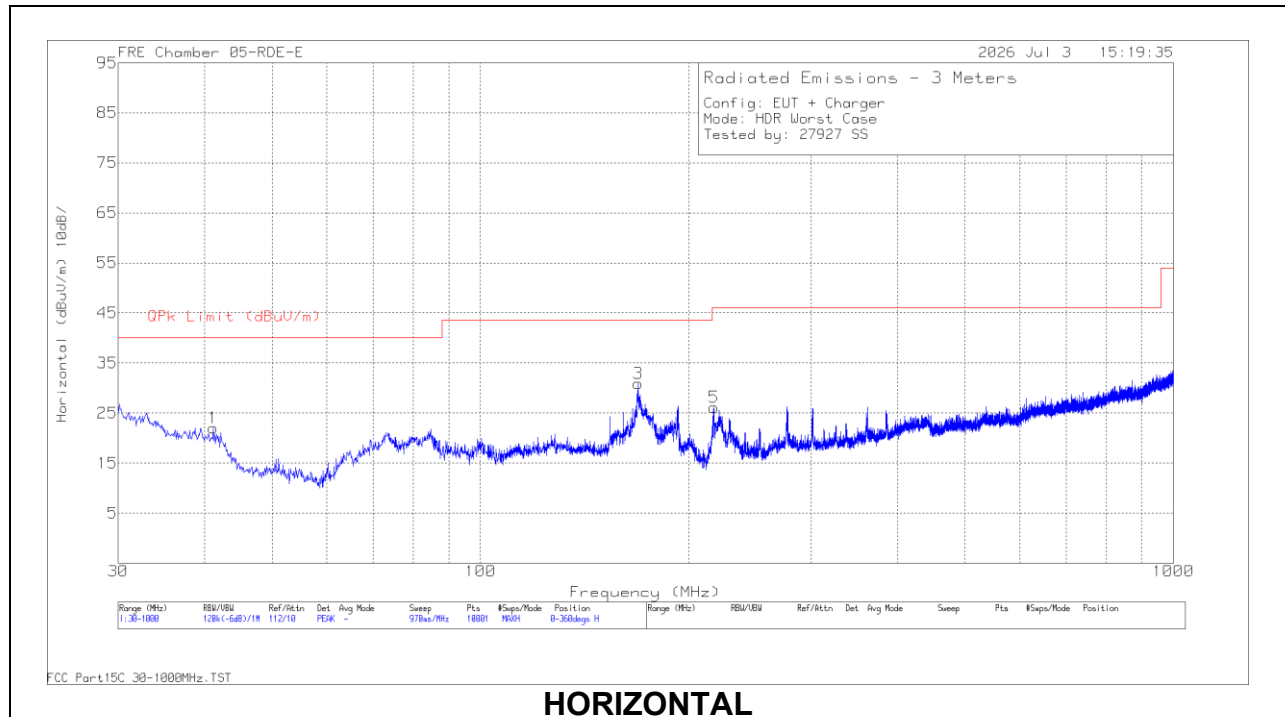
* - indicates frequency in 47 CFR Part 15/ IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2. 30 MHz - 1 GHz – WORST-CASE

SPURIOUS EMISSIONS



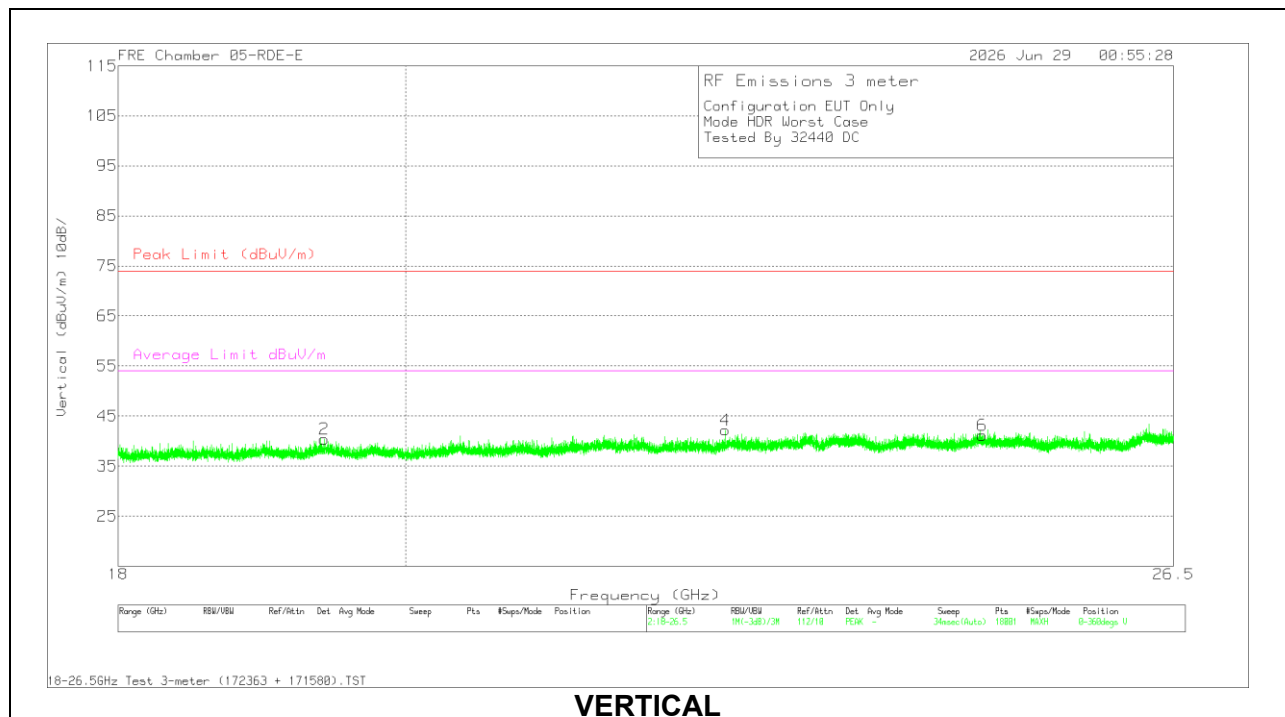
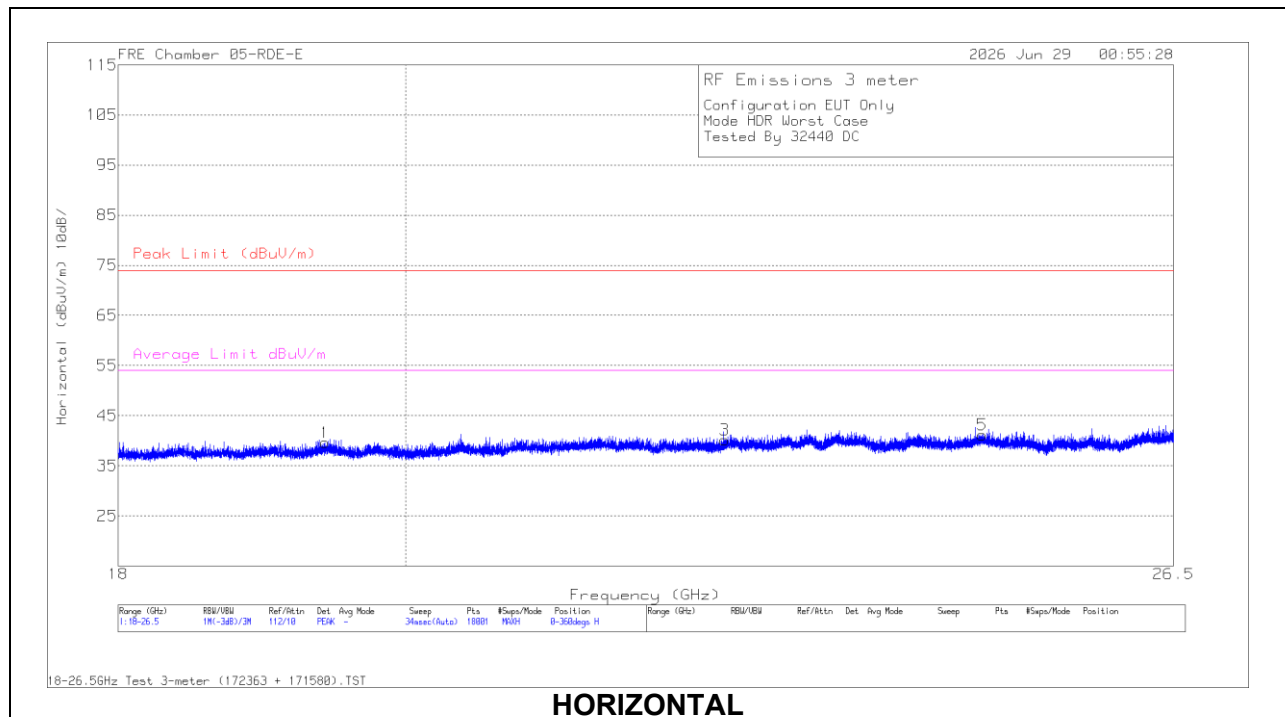
MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	174373 ACF (dB/m)	CBL (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	168.977	41.11	Qp	17.6	-30.3	28.41	43.52	-15.11	122	197	H
4	168.917	36.43	Qp	17.6	-30.3	23.73	43.52	-19.79	307	120	V
1	40.8891	28.7	Qp	18.7	-31	16.4	40	-23.6	263	248	H
2	42.0358	42.34	Qp	18	-31.2	29.14	40	-10.86	5	103	V
5	217.033	37.74	Qp	16.4	-30.2	23.94	46.02	-22.08	291	159	H
6	217.277	34.94	Qp	16.4	-30.2	21.14	46.02	-24.88	181	223	V

Qp - Quasi-Peak detector

10.3. 18 GHz - 26 GHz – WORST-CASE

SPURIOUS EMISSIONS



MEASURED DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172363 ACF (dB/m)	CBL/AMP (dB)	CBL (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.418555	56.8	Pk	32.4	-62.8	13.2	0	39.6	74	-34.4	54	-14.4	0-360	101	H
2	* 19.412888	57.59	Pk	32.4	-62.8	13.2	0	40.39	74	-33.61	54	-13.61	0-360	200	V
3	* 22.480442	56.26	Pk	33.1	-63.4	14.2	0	40.16	74	-33.84	54	-13.84	0-360	101	H
4	* 22.486109	58.11	Pk	33.1	-63.3	14.3	0	42.21	74	-31.79	54	-11.79	0-360	101	V
5	24.705552	54.98	Pk	33.7	-62.5	15	0	41.18	-	-	-	-	0-360	200	H
6	24.706969	54.99	Pk	33.7	-62.5	15	0	41.19	-	-	-	-	0-360	200	V

* - indicates frequency in 47 CFR Part 15/ IC RSS-Restricted Band

Pk - Peak detector

11. 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.

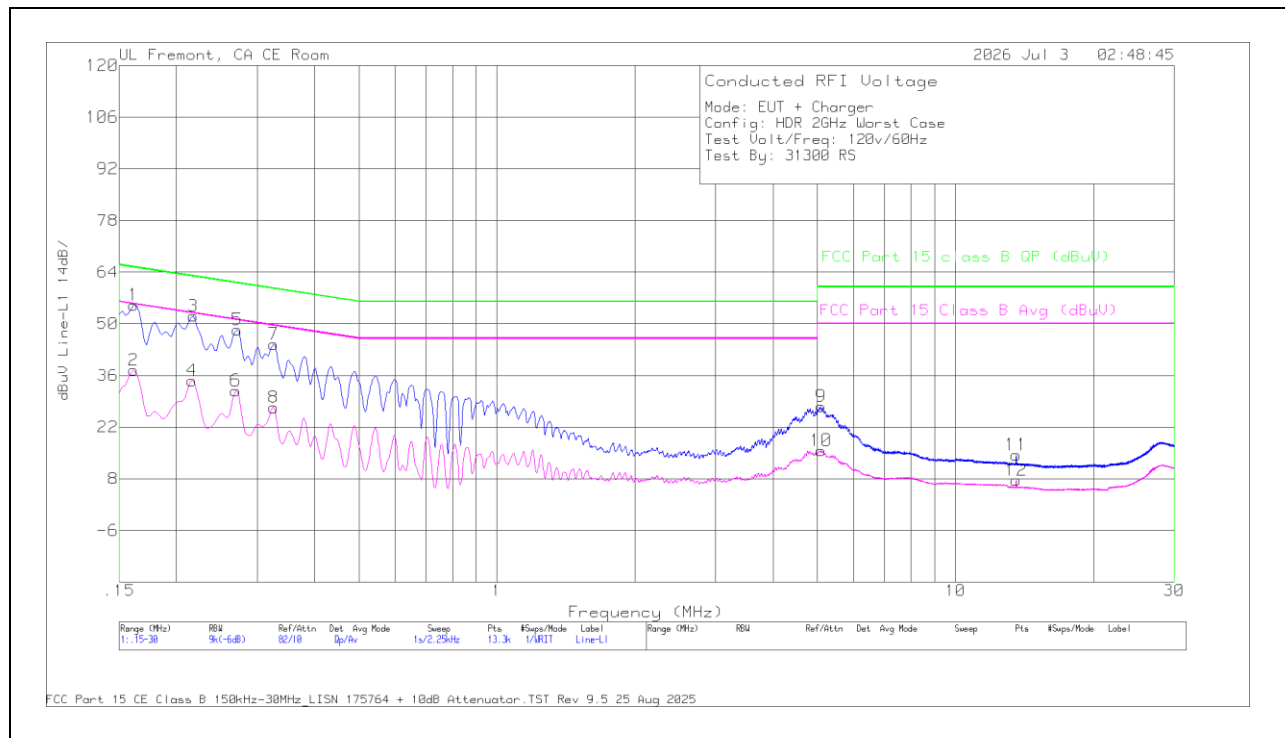
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

11.1. AC POWER LINE WITH AC/DC ADAPTER

LINE 1 RESULTS

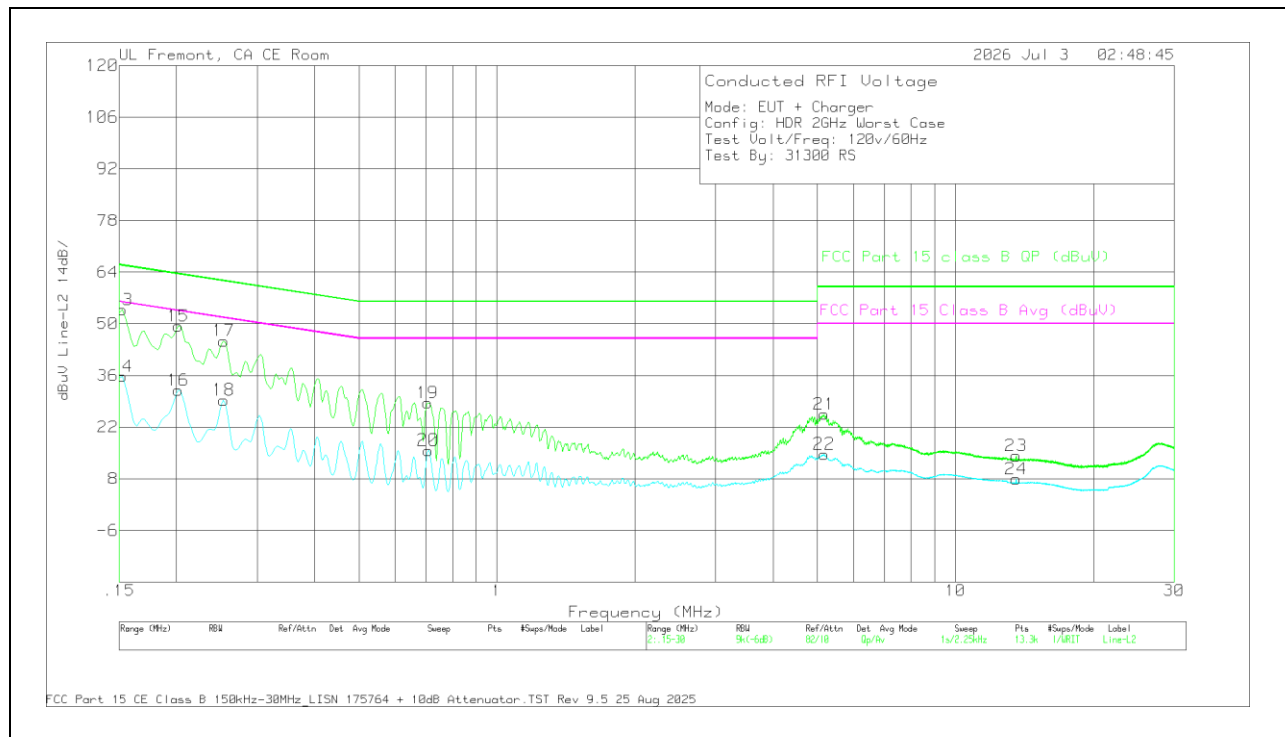


MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 1 202326, C3 202322, C1 202326 (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Avg Margin (dB)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)
2	.1613	27.21	Av	.1	10.1	37.41	55.4	-17.99	-	-
4	.2164	24.51	Av	0	10.1	34.61	52.96	-18.35	-	-
6	.2693	21.78	Av	0	10.1	31.88	51.14	-19.26	-	-
8	.3255	17.32	Av	0	10	27.32	49.57	-22.25	-	-
10	5.0933	5.63	Av	0	10	15.63	50	-34.37	-	-
12	13.56	-2.53	Av	.1	10	7.57	50	-42.43	-	-
1	.1613	44.85	Qp	.1	10.1	55.05	-	-	65.4	-10.35
3	.2175	41.98	Qp	0	10.1	52.08	-	-	62.91	-10.83
5	.2715	38.3	Qp	0	10.1	48.4	-	-	61.07	-12.67
7	.3255	34.46	Qp	0	10	44.46	-	-	59.57	-15.11
9	5.091	17.58	Qp	0	10	27.58	-	-	60	-32.42
11	13.56	4.37	Qp	.1	10	14.47	-	-	60	-45.53

Qp - Quasi-Peak detector

Av - Average detection

LINE 2 RESULTS**MEASURED DATA**

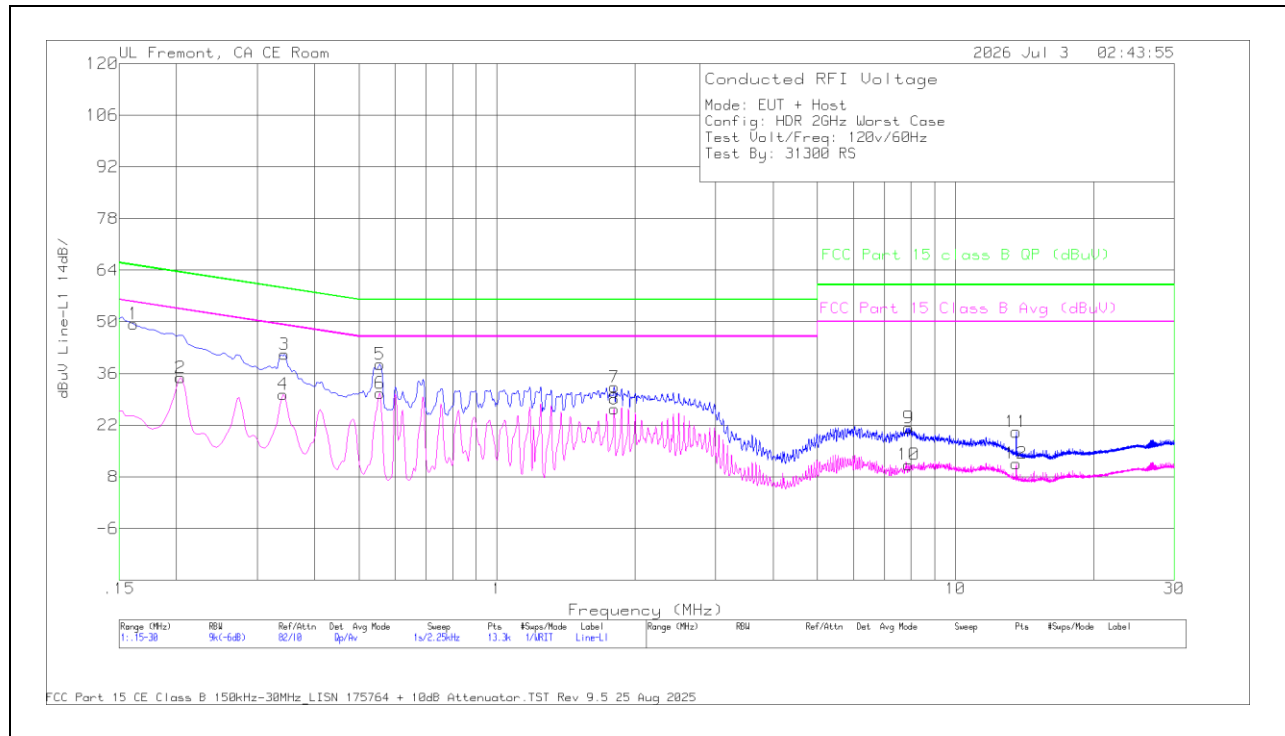
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 2 202327, C3 202322, C2 202327 (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Avg Margin (dB)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)
14	.1523	25.5	Av	.1	10.1	35.7	55.88	-20.18	-	-
16	.2018	21.77	Av	.1	10.1	31.97	53.54	-21.57	-	-
18	.2535	19.19	Av	0	10.1	29.29	51.64	-22.35	-	-
20	.708	5.58	Av	0	10.1	15.68	46	-30.32	-	-
22	5.1698	4.33	Av	.1	10.2	14.63	50	-35.37	-	-
24	13.56	-2.47	Av	.1	10.3	7.93	50	-42.07	-	-
13	.1523	43.59	Qp	.1	10.1	53.79	-	-	65.88	-12.09
15	.2018	39.18	Qp	.1	10.1	49.38	-	-	63.54	-14.16
17	.2535	35.26	Qp	0	10.1	45.36	-	-	61.64	-16.28
19	.7058	18.45	Qp	0	10.1	28.55	-	-	56	-27.45
21	5.172	15.2	Qp	.1	10.2	25.5	-	-	60	-34.5
23	13.56	3.79	Qp	.1	10.3	14.19	-	-	60	-45.81

Qp - Quasi-Peak detector

Av - Average detection

11.2. AC POWER LINE WITH LAPTOP

LINE 1 RESULTS

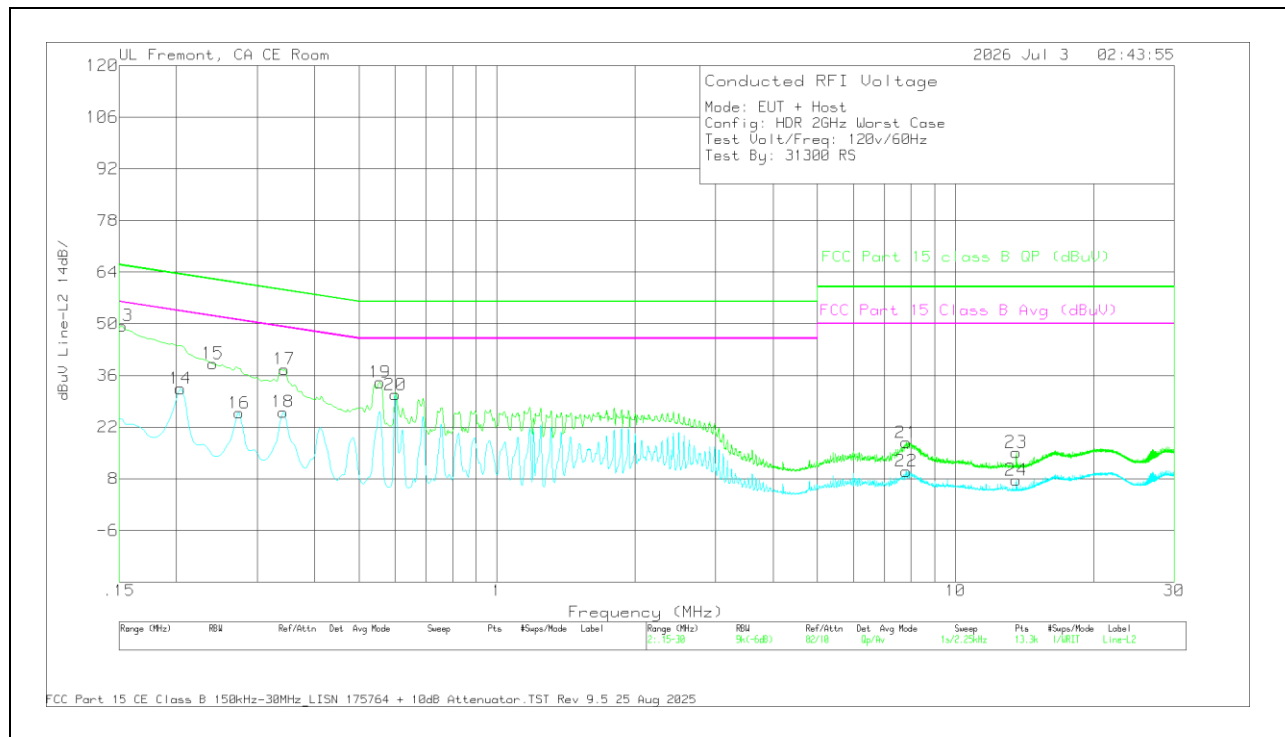


MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 1 202326, C3 202322, C1 202326 (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Avg Margin (dB)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)
2	.204	24.78	Av	0	10.1	34.88	53.45	-18.57	-	-
4	.3413	20.25	Av	0	10.1	30.35	49.17	-18.82	-	-
6	.555	20.54	Av	0	10.1	30.64	46	-15.36	-	-
8	1.8015	16.25	Av	0	10.1	26.35	46	-19.65	-	-
10	7.9013	1.17	Av	.1	10	11.27	50	-38.73	-	-
12	13.56	1.51	Av	.1	10	11.61	50	-38.39	-	-
1	.1613	39.23	Qp	.1	10.1	49.43	-	-	65.4	-15.97
3	.3435	31.07	Qp	0	10.1	41.17	-	-	59.12	-17.95
5	.555	28.39	Qp	0	10.1	38.49	-	-	56	-17.51
7	1.8015	22.23	Qp	0	10.1	32.33	-	-	56	-23.67
9	7.9069	11.16	Qp	.1	10	21.26	-	-	60	-38.74
11	13.56	10.06	Qp	.1	10	20.16	-	-	60	-39.84

Qp - Quasi-Peak detector

Av - Average detection

LINE 2 RESULTS**MEASURED DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175764 LISN L1 (dB)	Line 2 202327, C3 202322, C2 202327 (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Avg Margin (dB)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)
14	.204	22.24	Av	.1	10.1	32.44	53.45	-21.01	-	-
16	.2738	15.75	Av	0	10.1	25.85	51	-25.15	-	-
18	.3413	15.99	Av	0	10.1	26.09	49.17	-23.08	-	-
20	.6	20.65	Av	0	10.1	30.75	46	-15.25	-	-
22	7.8068	-23	Av	.1	10.2	10.07	50	-39.93	-	-
24	13.56	-2.78	Av	.1	10.3	7.62	50	-42.38	-	-
13	.1523	39.26	Qp	.1	10.1	49.46	-	-	65.88	-16.42
15	.24	29.01	Qp	.1	10.1	39.21	-	-	62.1	-22.89
17	.3435	27.59	Qp	0	10.1	37.69	-	-	59.12	-21.43
19	.555	24.05	Qp	0	10.1	34.15	-	-	56	-21.85
21	7.8068	7.51	Qp	.1	10.2	17.81	-	-	60	-42.19
23	13.56	4.76	Qp	.1	10.3	15.16	-	-	60	-44.84

Qp - Quasi-Peak detector

Av - Average detection

12. SETUP PHOTOS

Please refer to 15982168-EP1V1 for setup photos.

13. APPENDIX A – SPOT CHECK EVALUATION

13.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3716, A3717 and A3718. These models are very similar, with only the following differences.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3716	BCG-E9195A	579C-E9195A	-Without FR2 -Added LTE B11, B21	eSIM	-
A3717	BCG-E9196A	579C-E9196A	-Without FR2 -No LTE/5GNR B14, B29, B71 -No LTE B11, B21	eSIM	A3716
A3718	BCG-E9197A	579C-E9197A	-Without FR2 -No LTE/5GNR B14, B29, B71, B53 -No LTE B11, B21, MSS	eSIM + 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

13.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3717

Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3716	Sub Model: A3717	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9195A IC : 579C-E9195A	FCC ID : BCG-E9196A IC : 579C-E9196A			
DTS/HDR	2.4	HDR8 TxBF	8 Mbps	Output Power (dBm)	Mid	2.441	19.68	19.62	-0.06	-10.32	Note 1
		HDR8 (Ant 4) High Power	8 Mbps	Radiated Band-Edge (dBuV/m)	High	2.485857 (Avg) Horizontal	50.38	50.02	-0.36	-3.62	Note 1
		Worst Case	CW	RSE (dBuV/m)	Mid	42.0358 (QP) Vertical	29.14	30.24	1.10	-10.86	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 were performed on second channel.

13.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3718

Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3716	Sub Model: A3718	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9195A IC : 579C-E9195A	FCC ID : BCG-E9197A IC : 579C-E9197A			
DTS/HDR	2.4	HDR8 TxBF	8 Mbps	Output Power (dBm)	Mid	2.441	19.68	19.64	-0.04	-10.32	Note 1
		HDR8 (Ant 4) High Power	8 Mbps	Radiated Band-Edge (dBuV/m)	High	2.485857 (Avg) Horizontal	50.38	51.50	1.12	-3.62	Note 1
		Worst Case	CW	RSE (dBuV/m)	Mid	42.0358 (QP) Vertical	29.14	31.92	2.78	-10.86	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 were performed on second channel.