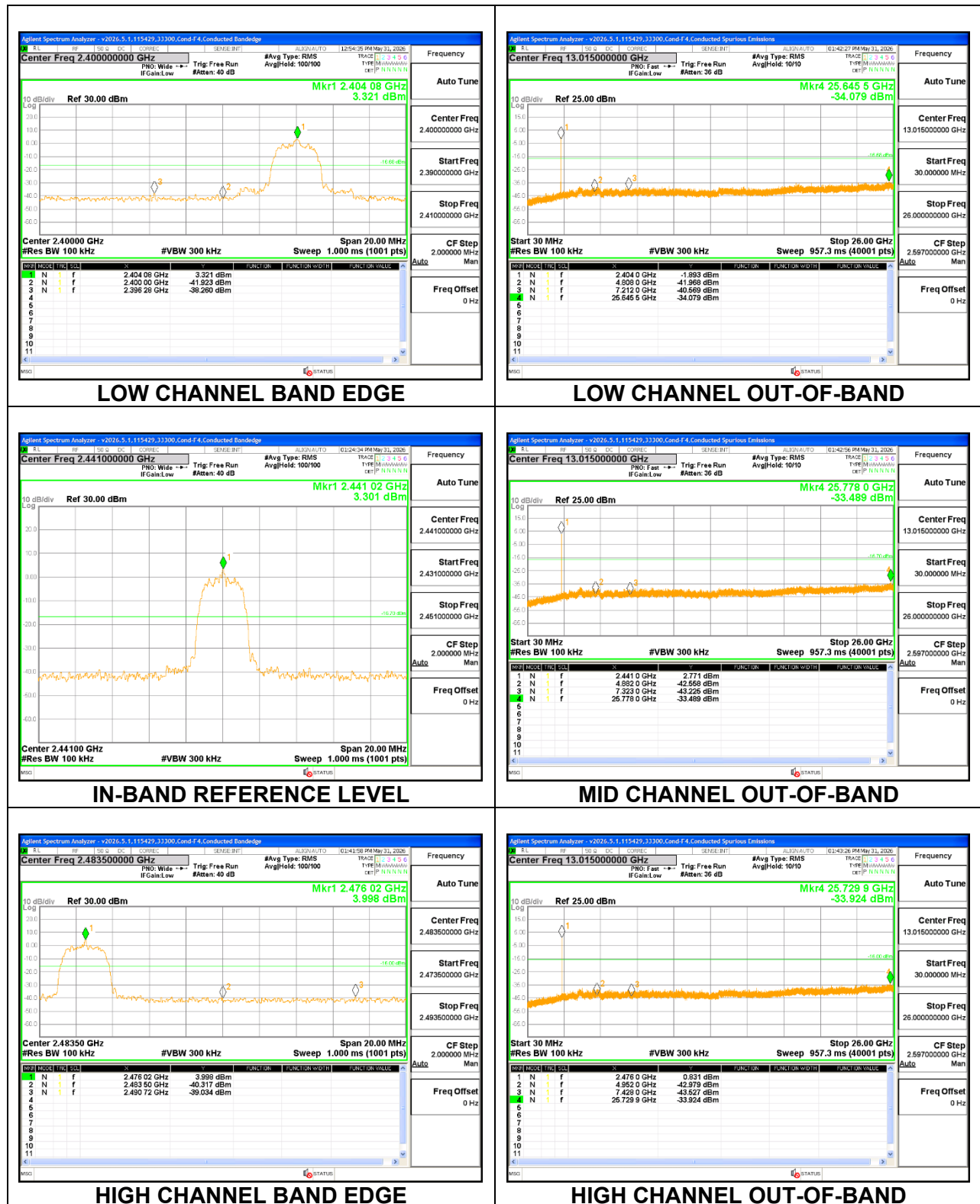
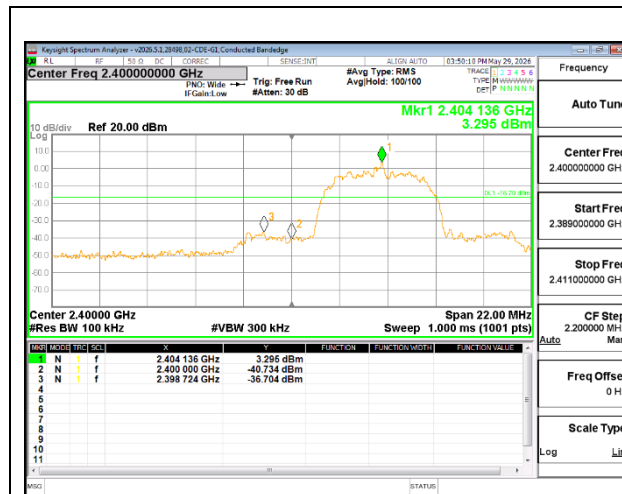


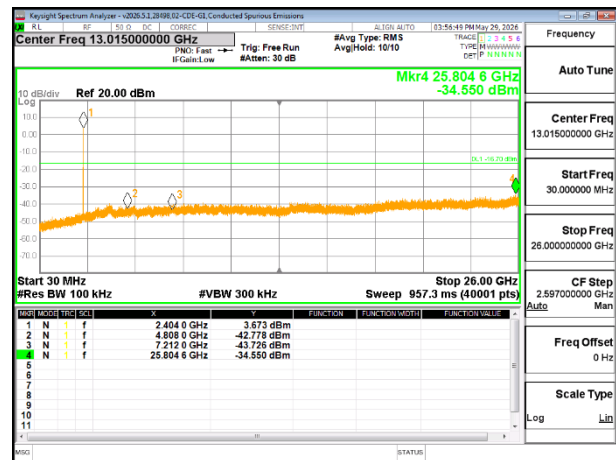
ANT 3

9.6.7. HDR8 – LOW POWER – SISO

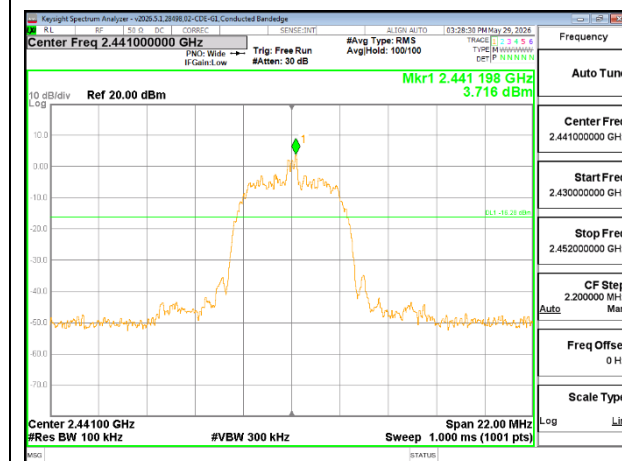
ANT 4



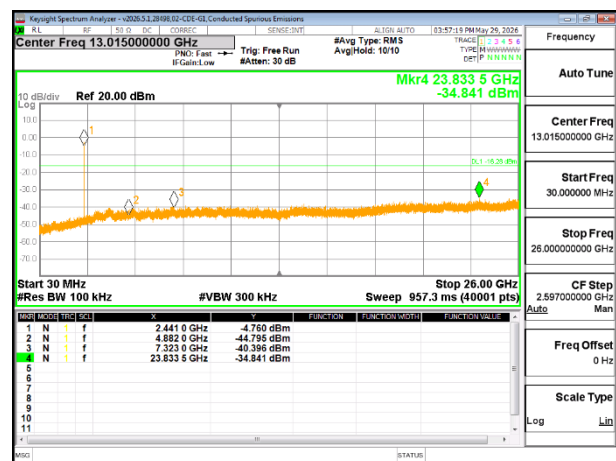
LOW CHANNEL BAND EDGE



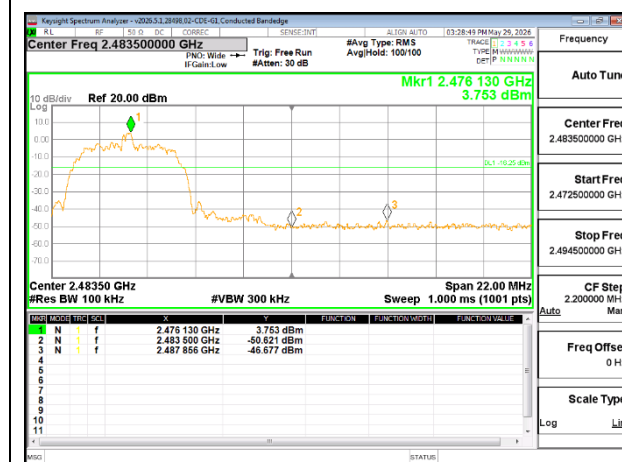
LOW CHANNEL OUT-OF-BAND



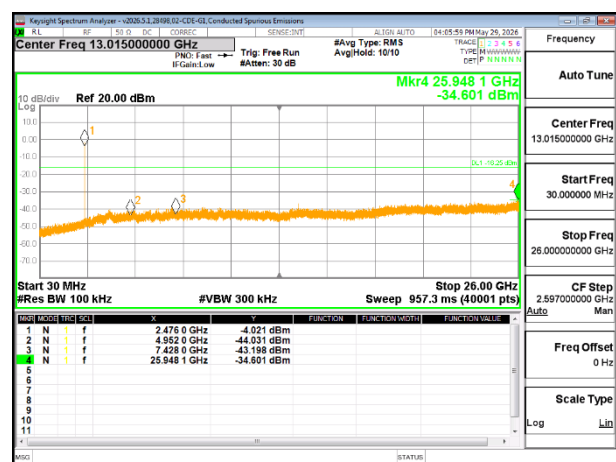
IN-BAND REFERENCE LEVEL



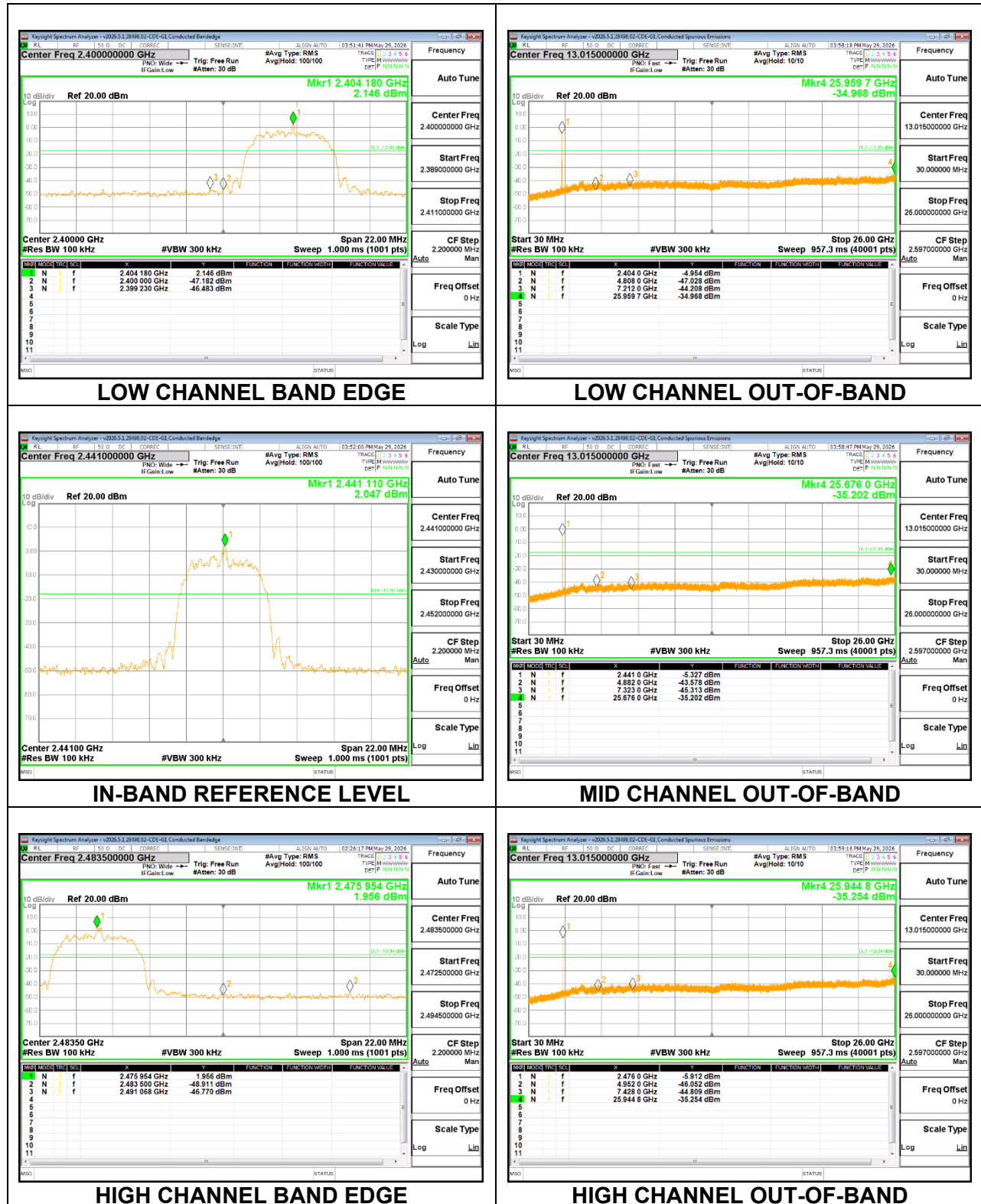
MID CHANNEL OUT-OF-BAND



HIGH CHANNEL BAND EDGE

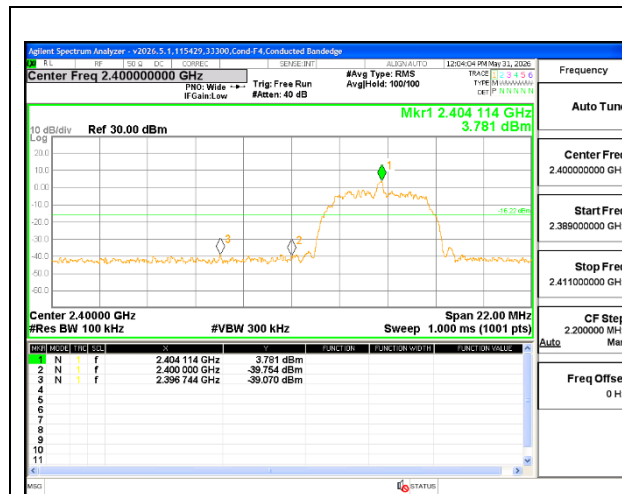


HIGH CHANNEL OUT-OF-BAND

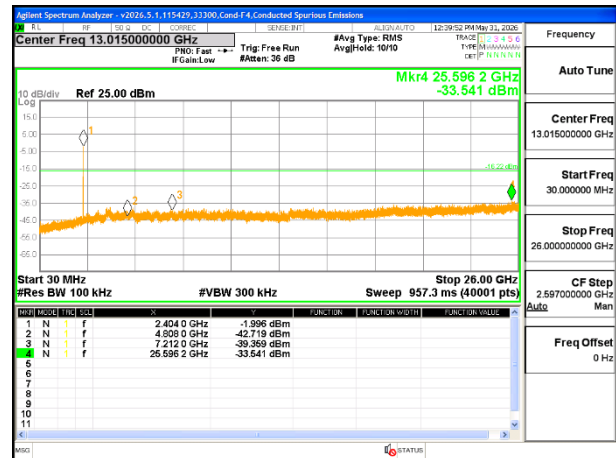
ANT 3

9.6.8. HDR8 – LOW POWER – MIMO TXBF

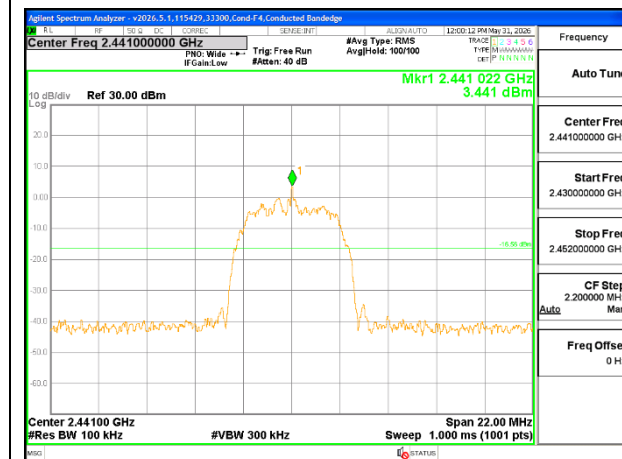
ANT 4



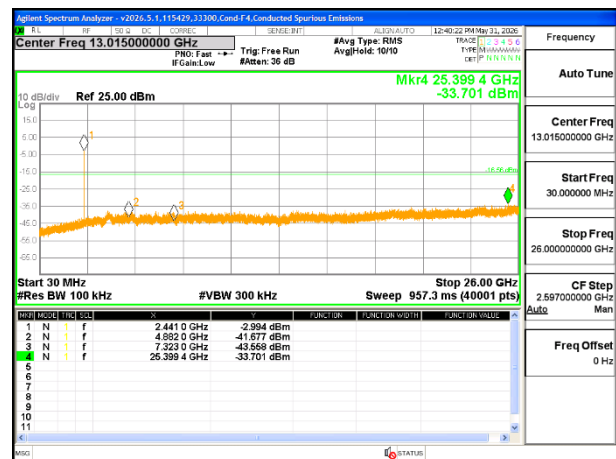
LOW CHANNEL BAND EDGE



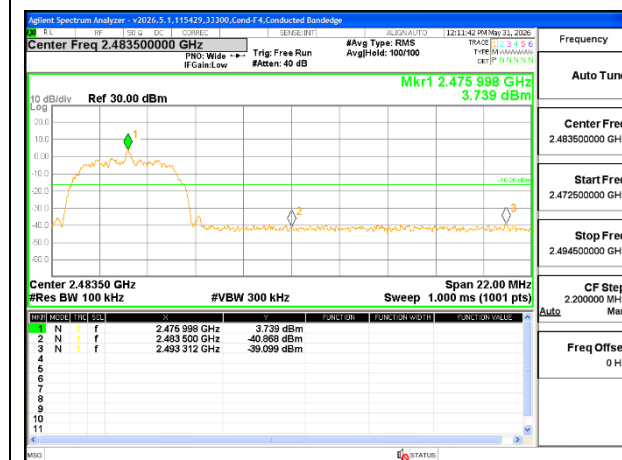
LOW CHANNEL OUT-OF-BAND



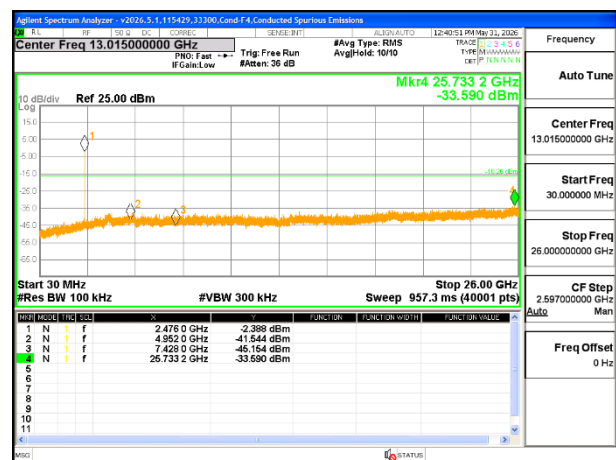
IN-BAND REFERENCE LEVEL



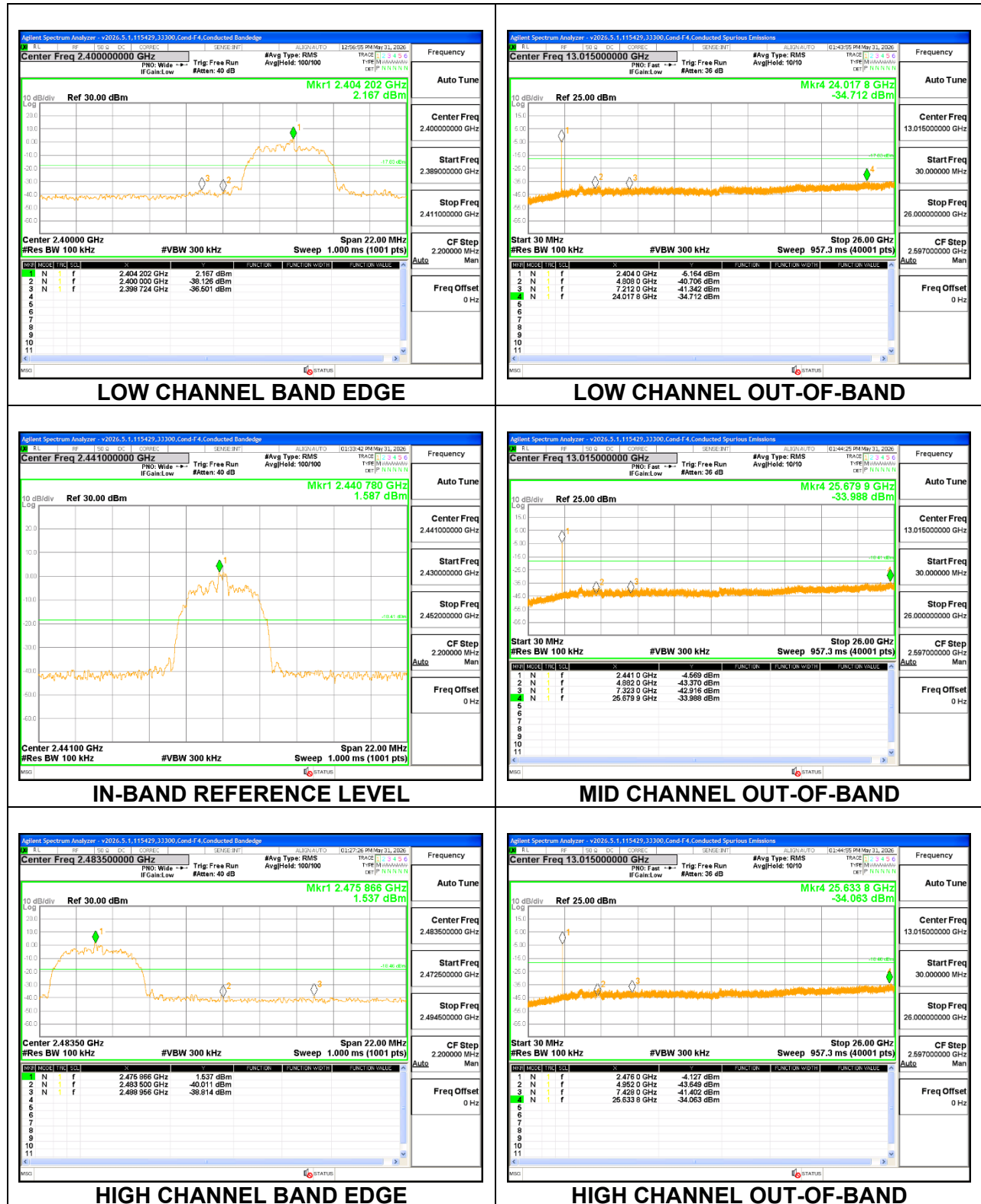
MID CHANNEL OUT-OF-BAND



HIGH CHANNEL BAND EDGE



HIGH CHANNEL OUT-OF-BAND

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 47 CFR 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

Base 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)	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	* 2.39	59.73	Pk	32.2	-38.9	0	53.03	-	-	74	-20.97	35	121	H
			* 2.333348	63.04	Pk	32	-39	0	56.04	-	-	74	-17.96	35	121	H
			* 2.39	49.26	RMS	32.2	-38.9	1.08	43.64	54	-10.36	-	-	35	121	H
			* 2.389621	50.45	RMS	32.2	-38.9	1.08	44.83	54	-9.17	-	-	35	121	H
			* 2.39	60.13	Pk	32.2	-38.9	0	53.43	-	-	74	-20.57	205	256	V
			* 2.310335	62.98	Pk	31.9	-39.1	0	55.78	-	-	74	-18.22	205	256	V
			* 2.39	49.59	RMS	32.2	-38.9	1.08	43.97	54	-10.03	-	-	205	256	V
			* 2.385007	50.25	RMS	32.2	-38.9	1.08	44.63	54	-9.37	-	-	205	256	V
		3	* 2.39	59.86	Pk	32.2	-38.9	0	53.16	-	-	74	-20.84	206	140	H
			* 2.334571	62.62	Pk	32	-39	0	55.62	-	-	74	-18.38	206	140	H
			* 2.39	49.9	RMS	32.2	-38.9	1.08	44.28	54	-9.72	-	-	206	140	H
			* 2.38949	50.29	RMS	32.2	-39	1.08	44.57	54	-9.43	-	-	206	140	H
			* 2.39	60.34	Pk	32.2	-38.9	0	53.64	-	-	74	-20.36	184	399	V
			* 2.344716	62.89	Pk	32	-39	0	55.89	-	-	74	-18.11	184	399	V
			* 2.39	49.57	RMS	32.2	-38.9	1.08	43.95	54	-10.05	-	-	184	399	V
			* 2.387234	50.41	RMS	32.2	-38.9	1.08	44.79	54	-9.21	-	-	184	399	V
HDR8	2404	4	* 2.39	63.27	Pk	32.2	-38.9	0	56.57	-	-	74	-17.43	25	120	H
			* 2.389665	63.47	Pk	32.2	-38.9	0	56.77	-	-	74	-17.23	25	120	H
			* 2.39	49.7	RMS	32.2	-38.9	1.08	44.08	54	-9.92	-	-	25	120	H
			* 2.389694	50.83	RMS	32.2	-38.9	1.08	45.21	54	-8.79	-	-	25	120	H
			* 2.39	60.06	Pk	32.2	-38.9	0	53.36	-	-	74	-20.64	204	258	V
			* 2.315036	62.96	Pk	31.9	-39	0	55.86	-	-	74	-18.14	204	258	V
			* 2.39	48.46	RMS	32.2	-38.9	1.08	42.84	54	-11.16	-	-	204	258	V
			* 2.389534	50.23	RMS	32.2	-38.9	1.08	44.61	54	-9.39	-	-	204	258	V
		3	* 2.39	63.46	Pk	32.2	-38.9	0	56.76	-	-	74	-17.24	214	101	H
			* 2.389854	64.58	Pk	32.2	-38.9	0	57.88	-	-	74	-16.12	214	101	H
			* 2.39	50.89	RMS	32.2	-38.9	1.08	45.27	54	-8.73	-	-	214	101	H
			* 2.389621	51.17	RMS	32.2	-38.9	1.08	45.55	54	-8.45	-	-	214	101	H
			* 2.39	61.05	Pk	32.2	-38.9	0	54.35	-	-	74	-19.65	191	342	V
			* 2.371586	62.43	Pk	32.1	-39	0	55.53	-	-	74	-18.47	191	342	V
			* 2.39	49.93	RMS	32.2	-38.9	1.08	44.31	54	-9.69	-	-	191	342	V
			* 2.389956	50.43	RMS	32.2	-38.9	1.08	44.81	54	-9.19	-	-	191	342	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/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	* 2.39	59.83	Pk	32.2	-38.9	0	53.13	-	-	74	-20.87	221	101	H
			* 2.368049	62.32	Pk	32.1	-38.9	0	55.52	-	-	74	-18.48	221	101	H
			* 2.39	49.22	RMS	32.2	-38.9	1.08	43.6	54	-10.4	-	-	221	101	H
			* 2.389811	50.32	RMS	32.2	-38.9	1.08	44.7	54	-9.3	-	-	221	101	H
			* 2.39	59.52	Pk	32.2	-38.9	0	52.82	-	-	74	-21.18	222	395	V
			* 2.387307	62.34	Pk	32.2	-38.9	0	55.64	-	-	74	-18.36	222	395	V
			* 2.39	48.92	RMS	32.2	-38.9	1.08	43.3	54	-10.7	-	-	222	395	V
HDR8	2404	4 + 3	* 2.360276	50.37	RMS	32.1	-39	1.08	44.55	54	-9.45	-	-	222	395	V
			* 2.39	70.94	Pk	32.2	-38.9	0	64.24	-	-	74	-9.76	221	103	H
			* 2.39	70.94	Pk	32.2	-38.9	0	64.24	-	-	74	-9.76	221	103	H
			* 2.39	54.51	RMS	32.2	-38.9	1.08	48.89	54	-5.11	-	-	221	103	H
			* 2.389942	56.88	RMS	32.2	-38.9	1.08	51.26	54	-2.74	-	-	221	103	H
			* 2.39	61.47	Pk	32.2	-38.9	0	54.77	-	-	74	-19.23	231	391	V
			* 2.38179	62.29	Pk	32.2	-38.9	0	55.59	-	-	74	-18.41	231	391	V
			* 2.39	50.23	RMS	32.2	-38.9	1.08	44.61	54	-9.39	-	-	231	391	V
			* 2.38639	50.52	RMS	32.2	-38.9	1.08	44.9	54	-9.1	-	-	231	391	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)	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	* 2.39	60.77	Pk	28.4	-40.4	0	48.77	-	-	74	-25.23	222	132	H
			* 2.337409	63.37	Pk	28.3	-40.5	0	51.17	-	-	74	-22.83	222	132	H
			* 2.39	49.83	RMS	28.4	-40.4	1.08	38.91	54	-15.09	-	-	222	132	H
			* 2.37965	51.1	RMS	28.4	-40.4	1.08	40.18	54	-13.82	-	-	222	132	H
			* 2.39	61.23	Pk	28.4	-40.4	0	49.23	-	-	74	-24.77	154	350	V
			* 2.329927	63.46	Pk	28.2	-40.41	0	51.25	-	-	74	-22.75	154	350	V
		3	* 2.39	49.47	RMS	28.4	-40.4	1.08	38.55	54	-15.45	-	-	154	350	V
			* 2.378501	50.86	RMS	28.4	-40.4	1.08	39.94	54	-14.06	-	-	154	350	V
			* 2.39	61.42	Pk	28.4	-40.4	0	49.42	-	-	74	-24.58	237	106	H
			* 2.349985	63.72	Pk	28.3	-40.4	0	51.62	-	-	74	-22.38	237	106	H
			* 2.39	49.18	RMS	28.4	-40.4	1.08	38.26	54	-15.74	-	-	237	106	H
			* 2.386099	51	RMS	28.4	-40.4	1.08	40.08	54	-13.92	-	-	237	106	H
			* 2.39	61.02	Pk	28.4	-40.4	0	49.02	-	-	74	-24.98	204	358	V
			* 2.383304	63.35	Pk	28.4	-40.4	0	51.35	-	-	74	-22.65	204	358	V
			* 2.39	49.19	RMS	28.4	-40.4	1.08	38.27	54	-15.73	-	-	204	358	V
			* 2.347773	51.04	RMS	28.3	-40.4	1.08	40.02	54	-13.98	-	-	204	358	V
HDR8	2404	4	* 2.39	60.1	Pk	28.4	-40.4	0	48.1	-	-	74	-25.9	221	105	H
			* 2.341266	63.66	Pk	28.3	-40.4	0	51.56	-	-	74	-22.44	221	105	H
			* 2.39	50.34	RMS	28.4	-40.4	1.08	39.42	54	-14.58	-	-	221	105	H
			* 2.375153	50.99	RMS	28.4	-40.4	1.08	40.07	54	-13.93	-	-	221	105	H
			* 2.39	60.26	Pk	28.4	-40.4	0	48.26	-	-	74	-25.74	153	355	V
			* 2.383333	63.29	Pk	28.4	-40.4	0	51.29	-	-	74	-22.71	153	355	V
			* 2.39	49.91	RMS	28.4	-40.4	1.08	38.99	54	-15.01	-	-	153	355	V
			* 2.318079	51.33	RMS	28.2	-40.41	1.08	40.2	54	-13.8	-	-	153	355	V
		3	* 2.39	60.4	Pk	28.4	-40.4	0	48.4	-	-	74	-25.6	248	137	H
			* 2.339403	63.08	Pk	28.3	-40.46	0	50.92	-	-	74	-23.08	248	137	H
			* 2.39	50.69	RMS	28.4	-40.4	1.08	39.77	54	-14.23	-	-	248	137	H
			* 2.380538	51.24	RMS	28.4	-40.4	1.08	40.32	54	-13.68	-	-	248	137	H
			* 2.39	60.92	Pk	28.4	-40.4	0	48.92	-	-	74	-25.08	202	360	V
			* 2.357889	62.94	Pk	28.3	-40.4	0	50.84	-	-	74	-23.16	202	360	V
			* 2.39	49.76	RMS	28.4	-40.4	1.08	38.84	54	-15.16	-	-	202	360	V
			* 2.384425	51.17	RMS	28.4	-40.4	1.08	40.25	54	-13.75	-	-	202	360	V

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

Pk - Peak detector

RMS - RMS detection

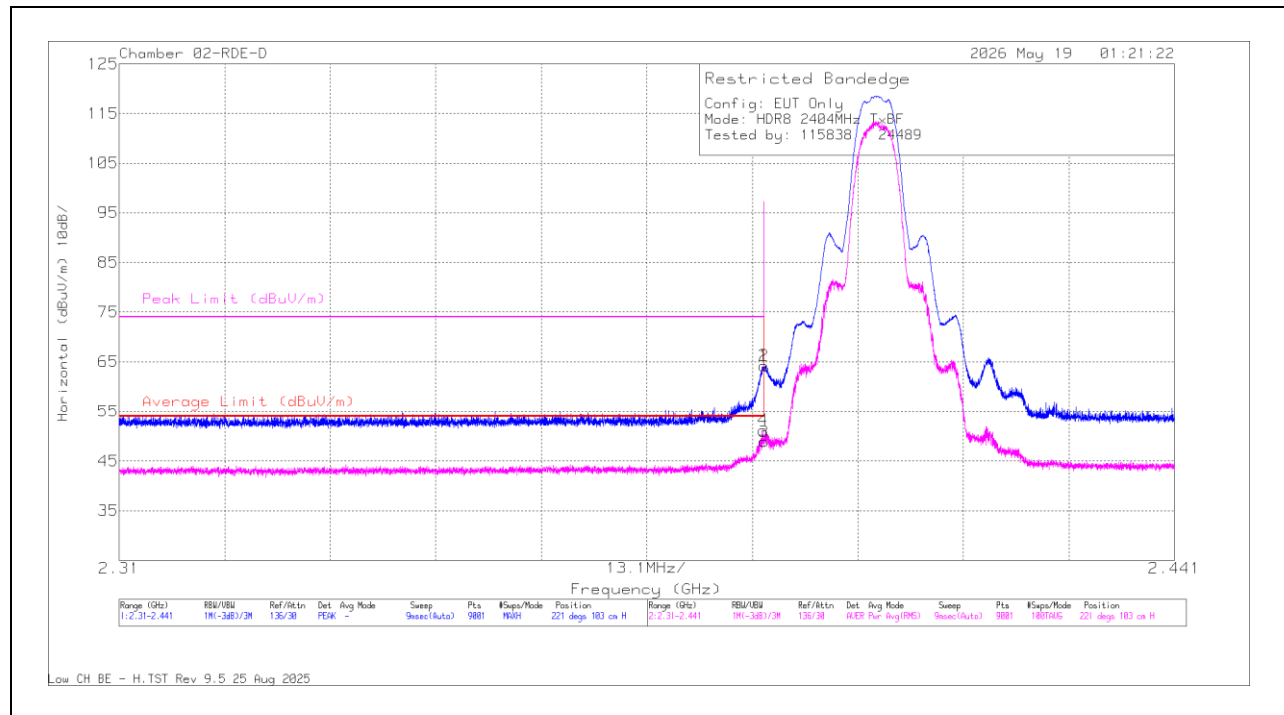
10.1.4. LOW BAND EDGE – LOW POWER – MIMO TXBF

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/Cbl/ 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	* 2.39	60.77	Pk	28.4	-40.4	0	48.77	-	-	74	-25.23	329	112	H
			* 2.371485	63.64	Pk	28.4	-40.4	0	51.64	-	-	74	-22.36	329	112	H
			* 2.39	50.18	RMS	28.4	-40.4	1.08	39.26	54	-14.74	-	-	329	112	H
			* 2.38147	51.13	RMS	28.4	-40.4	1.08	40.21	54	-13.79	-	-	329	112	H
			* 2.39	60.65	Pk	28.4	-40.4	0	48.65	-	-	74	-25.35	323	114	V
			* 2.350771	63.45	Pk	28.3	-40.4	0	51.35	-	-	74	-22.65	323	114	V
			* 2.39	49.6	RMS	28.4	-40.4	1.08	38.68	54	-15.32	-	-	323	114	V
HDR8	2404	4 + 3	* 2.363464	50.95	RMS	28.3	-40.4	1.08	39.93	54	-14.07	-	-	323	114	V
			* 2.39	61.4	Pk	28.4	-40.4	0	49.4	-	-	74	-24.6	54	147	H
			* 2.384614	63.37	Pk	28.4	-40.4	0	51.37	-	-	74	-22.63	54	147	H
			* 2.39	50.13	RMS	28.4	-40.4	1.08	39.21	54	-14.79	-	-	54	147	H
			* 2.388166	51.06	RMS	28.4	-40.4	1.08	40.14	54	-13.86	-	-	54	147	H
			* 2.39	60.82	Pk	28.4	-40.4	0	48.82	-	-	74	-25.18	52	116	V
			* 2.348049	63.42	Pk	28.3	-40.4	0	51.32	-	-	74	-22.68	52	116	V
			* 2.39	49.24	RMS	28.4	-40.4	1.08	38.32	54	-15.68	-	-	52	116	V
			* 2.364148	51.06	RMS	28.3	-40.4	1.08	40.04	54	-13.96	-	-	52	116	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**

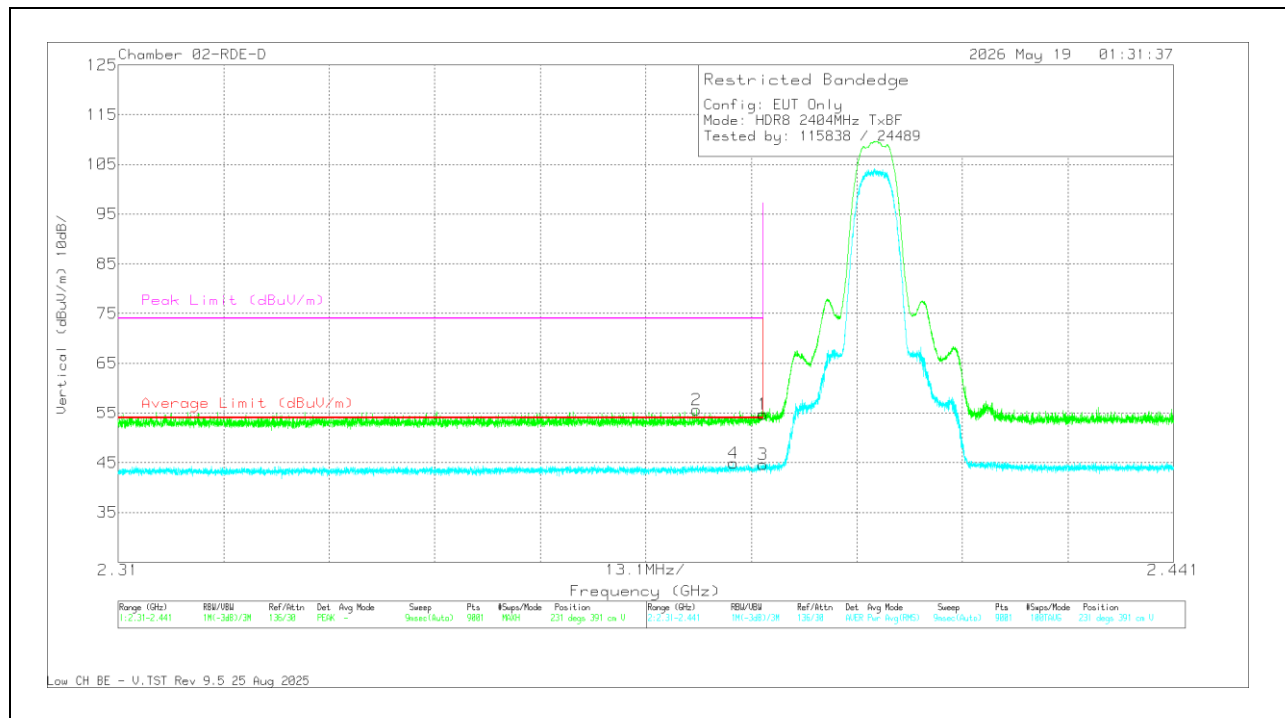
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	70.94	Pk	32.2	-38.9	0	64.24	-	-	74	-9.76	221	103
2	* 2.39	70.94	Pk	32.2	-38.9	0	64.24	-	-	74	-9.76	221	103
3	* 2.39	54.51	RMS	32.2	-38.9	1.08	48.89	54	-5.11	-	-	221	103
4	* 2.389942	56.88	RMS	32.2	-38.9	1.08	51.26	54	-2.74	-	-	221	103

* - 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	226674 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.47	Pk	32.2	-38.9	0	54.77	-	-	74	-19.23	231	391
2	* 2.38179	62.29	Pk	32.2	-38.9	0	55.59	-	-	74	-18.41	231	391
3	* 2.39	50.23	RMS	32.2	-38.9	1.08	44.61	54	-9.39	-	-	231	391
4	* 2.38639	50.52	RMS	32.2	-38.9	1.08	44.9	54	-9.1	-	-	231	391

* - 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)	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	2476	4	* 2.4835	70.93	Pk	32.2	-38.7	0	64.43	-	-	74	-9.57	28	112	H
			* 2.483512	70.96	Pk	32.2	-38.7	0	64.46	-	-	74	-9.54	28	112	H
			* 2.4835	56.1	RMS	32.2	-38.7	1.08	50.68	54	-3.32	-	-	28	112	H
			* 2.48362	56.71	RMS	32.2	-38.7	1.08	51.29	54	-2.71	-	-	28	112	H
			* 2.4835	63.65	Pk	32.2	-38.7	0	57.15	-	-	74	-16.85	201	360	V
			* 2.483525	64.77	Pk	32.2	-38.7	0	58.27	-	-	74	-15.73	201	360	V
		3	* 2.4835	50.66	RMS	32.2	-38.7	1.08	45.24	54	-8.76	-	-	201	360	V
			* 2.483539	51.47	RMS	32.2	-38.7	1.08	46.05	54	-7.95	-	-	201	360	V
			* 2.4835	64.54	Pk	32.2	-38.7	0	58.04	-	-	74	-15.96	239	134	H
			* 2.483593	65.72	Pk	32.2	-38.7	0	59.22	-	-	74	-14.78	239	134	H
			* 2.4835	51.87	RMS	32.2	-38.7	1.08	46.45	54	-7.55	-	-	239	134	H
			* 2.483688	52.75	RMS	32.2	-38.7	1.08	47.33	54	-6.67	-	-	239	134	H
			* 2.4835	63.35	Pk	32.2	-38.7	0	56.85	-	-	74	-17.15	177	362	V
			* 2.483837	63.94	Pk	32.2	-38.7	0	57.44	-	-	74	-16.56	177	362	V
			* 2.4835	50.1	RMS	32.2	-38.7	1.08	44.68	54	-9.32	-	-	177	362	V
			* 2.484474	51.1	RMS	32.2	-38.7	1.08	45.68	54	-8.32	-	-	177	362	V
HDR8	2476	4	* 2.4835	67.58	Pk	32.2	-38.7	0	61.08	-	-	74	-12.92	33	134	H
			* 2.485504	69.76	Pk	32.2	-38.7	0	63.26	-	-	74	-10.74	33	134	H
			* 2.4835	55.47	RMS	32.2	-38.7	1.08	50.05	54	-3.95	-	-	33	134	H
			* 2.483593	56.01	RMS	32.2	-38.7	1.08	50.59	54	-3.41	-	-	33	134	H
			* 2.4835	61.63	Pk	32.2	-38.7	0	55.13	-	-	74	-18.87	203	312	V
			* 2.485287	64.15	Pk	32.2	-38.7	0	57.65	-	-	74	-16.35	203	312	V
			* 2.4835	50.7	RMS	32.2	-38.7	1.08	45.28	54	-8.72	-	-	203	312	V
			* 2.483878	51.43	RMS	32.2	-38.7	1.08	46.01	54	-7.99	-	-	203	312	V
		3	* 2.4835	68.25	Pk	32.2	-38.7	0	61.75	-	-	74	-12.25	239	131	H
			* 2.486047	69.58	Pk	32.2	-38.7	0	63.08	-	-	74	-10.92	239	131	H
			* 2.4835	55.64	RMS	32.2	-38.7	1.08	50.22	54	-3.78	-	-	239	131	H
			* 2.483525	56.09	RMS	32.2	-38.7	1.08	50.67	54	-3.33	-	-	239	131	H
			* 2.4835	65.24	Pk	32.2	-38.7	0	58.74	-	-	74	-15.26	187	368	V
			* 2.486291	66.57	Pk	32.2	-38.7	0	60.07	-	-	74	-13.93	187	368	V
			* 2.4835	52.48	RMS	32.2	-38.7	1.08	47.06	54	-6.94	-	-	187	368	V
			* 2.483539	53.49	RMS	32.2	-38.7	1.08	48.07	54	-5.93	-	-	187	368	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/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	2476	4 + 3	* 2.4835	71.18	Pk	32.2	-38.7	0	64.68	-	-	74	-9.32	231	111	H
			* 2.483512	71.13	Pk	32.2	-38.7	0	64.63	-	-	74	-9.37	231	111	H
			* 2.4835	56.12	RMS	32.2	-38.7	1.08	50.7	54	-3.3	-	-	231	111	H
			* 2.483566	56.36	RMS	32.2	-38.7	1.08	50.94	54	-3.06	-	-	231	111	H
			* 2.4835	61.76	Pk	32.2	-38.7	0	55.26	-	-	74	-18.74	215	102	V
			2.559344	62.36	Pk	32.4	-38.4	0	56.36	-	-	74	-17.64	215	102	V
			* 2.4835	49.08	RMS	32.2	-38.7	1.08	43.66	54	-10.34	-	-	215	102	V
			2.553569	50.3	RMS	32.4	-38.4	1.08	45.38	54	-8.62	-	-	215	102	V
HDR8	2476	4 + 3	* 2.4835	67.82	Pk	32.2	-38.7	0	61.32	-	-	74	-12.68	229	107	H
			* 2.485301	68.65	Pk	32.2	-38.7	0	62.15	-	-	74	-11.85	229	107	H
			* 2.4835	55.46	RMS	32.2	-38.7	1.08	50.04	54	-3.96	-	-	229	107	H
			* 2.483525	56.12	RMS	32.2	-38.7	1.08	50.7	54	-3.3	-	-	229	107	H
			* 2.4835	61.22	Pk	32.2	-38.7	0	54.72	-	-	74	-19.28	219	121	V
			* 2.483905	63.09	Pk	32.2	-38.7	0	56.59	-	-	74	-17.41	219	121	V
			* 2.4835	50.04	RMS	32.2	-38.7	1.08	44.62	54	-9.38	-	-	219	121	V
			* 2.484759	50.76	RMS	32.2	-38.7	1.08	45.34	54	-8.66	-	-	219	121	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)	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	2476	4	* 2.4835	61.49	Pk	29	-40.1	0	50.39	-	-	74	-23.61	46	117	H
			* 2.4835	49.95	RMS	29	-40.1	1.08	39.93	54	-14.07	-	-	46	117	H
			2.53863	51.14	RMS	29.3	-40	1.08	41.52	54	-12.48	-	-	46	117	H
			2.553271	63.28	Pk	29.4	-39.97	0	52.71	-	-	74	-21.29	46	117	H
			* 2.4835	60.43	Pk	29	-40.1	0	49.33	-	-	74	-24.67	31	372	V
			* 2.4835	50.36	RMS	29	-40.1	1.08	40.34	54	-13.66	-	-	31	372	V
		3	2.543348	64.11	Pk	29.4	-40	0	53.51	-	-	74	-20.49	31	372	V
			2.545097	50.9	RMS	29.4	-40	1.08	41.38	54	-12.62	-	-	31	372	V
			* 2.4835	61.57	Pk	29	-40.1	0	50.47	-	-	74	-23.53	56	151	H
			* 2.4835	50.17	RMS	29	-40.1	1.08	40.15	54	-13.85	-	-	56	151	H
			2.54183	63.15	Pk	29.4	-40	0	52.55	-	-	74	-21.45	56	151	H
			2.562028	50.93	RMS	29.5	-39.9	1.08	41.61	54	-12.39	-	-	56	151	H
			* 2.4835	60.64	Pk	29	-40.1	0	49.54	-	-	74	-24.46	62	377	V
			* 2.4835	49.87	RMS	29	-40.1	1.08	39.85	54	-14.15	-	-	62	377	V
			2.528423	51.22	RMS	29.3	-40	1.08	41.6	54	-12.4	-	-	62	377	V
			2.538834	63.24	Pk	29.3	-40	0	52.54	-	-	74	-21.46	62	377	V
HDR8	2476	4	* 2.4835	61.32	Pk	29	-40.1	0	50.22	-	-	74	-23.78	56	122	H
			* 2.4835	50.09	RMS	29	-40.1	1.08	40.07	54	-13.93	-	-	56	122	H
			2.53901	63.09	Pk	29.3	-40	0	52.39	-	-	74	-21.61	56	122	H
			2.542128	50.96	RMS	29.4	-40	1.08	41.44	54	-12.56	-	-	56	122	H
			* 2.4835	61.11	Pk	29	-40.1	0	50.01	-	-	74	-23.99	203	298	V
			* 2.4835	50.22	RMS	29	-40.1	1.08	40.2	54	-13.8	-	-	203	298	V
			2.503371	63.59	Pk	29.1	-40	0	52.69	-	-	74	-21.31	203	298	V
			2.561648	51.01	RMS	29.5	-39.94	1.08	41.65	54	-12.35	-	-	203	298	V
		3	* 2.4835	60.46	Pk	29	-40.1	0	49.36	-	-	74	-24.64	236	240	H
			* 2.4835	50.7	RMS	29	-40.1	1.08	40.68	54	-13.32	-	-	236	240	H
			2.534658	62.88	Pk	29.3	-40	0	52.18	-	-	74	-21.82	236	240	H
			2.559005	50.9	RMS	29.4	-40	1.08	41.38	54	-12.62	-	-	236	240	H
			* 2.4835	60.91	Pk	29	-40.1	0	49.81	-	-	74	-24.19	171	381	V
			* 2.4835	49.97	RMS	29	-40.1	1.08	39.95	54	-14.05	-	-	171	381	V
			2.53863	63.04	Pk	29.3	-40	0	52.34	-	-	74	-21.66	171	381	V
			2.544785	50.91	RMS	29.4	-40	1.08	41.39	54	-12.61	-	-	171	381	V

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

Pk - Peak detector

RMS - RMS detection

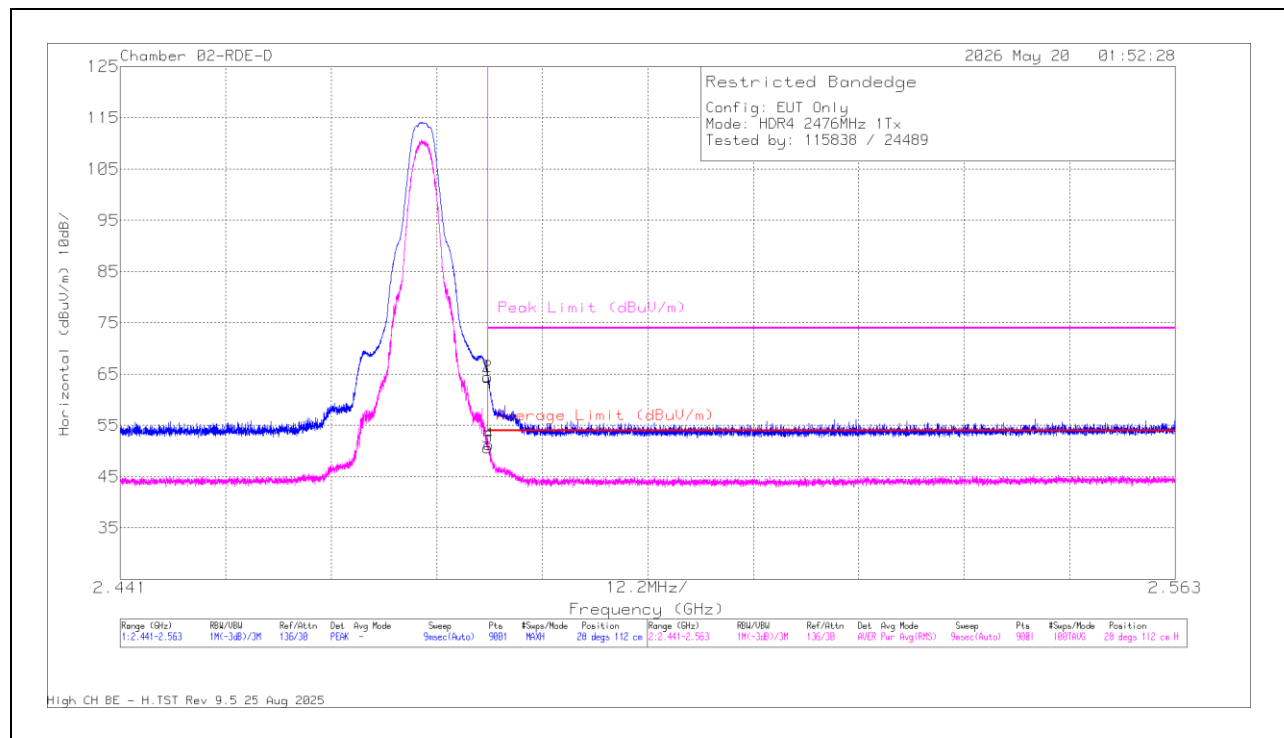
10.1.9. HIGH BAND EDGE – LOW POWER – MIMO TXBF

Mode (MIMO TXBF)	Channel Frequency (MHz)	Antenna #	Frequency (GHz)	Meter Reading (dBuV)	Detector	ACF (dB/m)	Amp/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	2476	4 + 3	* 2.4835	60.87	Pk	29	-40.1	0	49.77	-	-	74	-24.23	230	155	H
			* 2.4835	50.06	RMS	29	-40.1	1.08	40.04	54	-13.96	-	-	230	155	H
			2.547889	63.23	Pk	29.4	-40	0	52.63	-	-	74	-21.37	230	155	H
			2.560374	51.23	RMS	29.4	-40	1.08	41.71	54	-12.29	-	-	230	155	H
			* 2.4835	60.82	Pk	29	-40.1	0	49.72	-	-	74	-24.28	226	110	V
			* 2.4835	49.6	RMS	29	-40.1	1.08	39.58	54	-14.42	-	-	226	110	V
			2.5169	63.5	Pk	29.2	-40	0	52.7	-	-	74	-21.3	226	110	V
HDR8	2476	4 + 3	2.523895	51.22	RMS	29.2	-40	1.08	41.5	54	-12.5	-	-	226	110	V
			* 2.4835	61.72	Pk	29	-40.1	0	50.62	-	-	74	-23.38	231	153	H
			* 2.4835	50.5	RMS	29	-40.1	1.08	40.48	54	-13.52	-	-	231	153	H
			2.554911	51.05	RMS	29.4	-39.99	1.08	41.54	54	-12.46	-	-	231	153	H
			2.556606	62.89	Pk	29.4	-39.9	0	52.39	-	-	74	-21.61	231	153	H
			* 2.4835	61.02	Pk	29	-40.1	0	49.92	-	-	74	-24.08	235	111	V
			* 2.4835	50.17	RMS	29	-40.1	1.08	40.15	54	-13.85	-	-	235	111	V
			2.556917	62.98	Pk	29.4	-39.9	0	52.48	-	-	74	-21.52	235	111	V
			2.562042	50.75	RMS	29.5	-39.9	1.08	41.43	54	-12.57	-	-	235	111	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**HDR4 / 2476 MHz / HIGH POWER / SISO ANT 4****HORIZONTAL RESULT****MEASURED DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl (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	70.93	Pk	32.2	-38.7	0	64.43	-	-	74	-9.57	28	112
2	* 2.483512	70.96	Pk	32.2	-38.7	0	64.46	-	-	74	-9.54	28	112
3	* 2.4835	56.1	RMS	32.2	-38.7	1.08	50.68	54	-3.32	-	-	28	112
4	* 2.48362	56.71	RMS	32.2	-38.7	1.08	51.29	54	-2.71	-	-	28	112

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

Pk - Peak detector

RMS - RMS detection

Chamber 02-RDE-D 2026 May 20 02:01:40

Restricted Bandedge
Config: EUT Only
Mode: HDR4 2476MHz 1Tx
Tested by: 115838 / 24489

Vertical (dBu/m) 10dB/

Peak Limit (dBu/m)

Average Limit (dBu/m)

Frequency (GHz)

12.2MHz/

2.441 2.563

Range (GHz) 1.2441-2.563 Ref/Att 1M(-3dB)/3M Det Avg Mode PEAK Sweep Span/Freq 12.2MHz Pts 9001 #Seps/Mode 1001 Position 201 degs 300 cm Range (GHz) 1.2441-2.563 Ref/Att 1M(-3dB)/3M Det Avg Mode AVER Per Avg (RMS) Sweep Span/Freq 12.2MHz Pts 9001 #Seps/Mode 1001 Position 201 degs 300 cm

High CH BE - U.TST Rev 9.5 25 Aug 2025

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl (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	63.65	Pk	32.2	-38.7	0	57.15	-	-	74	-16.85	201	360
2	* 2.483525	64.77	Pk	32.2	-38.7	0	58.27	-	-	74	-15.73	201	360
3	* 2.4835	50.66	RMS	32.2	-38.7	1.08	45.24	54	-8.76	-	-	201	360
4	* 2.483539	51.47	RMS	32.2	-38.7	1.08	46.05	54	-7.95	-	-	201	360

Page 55 of 69

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	* 4.808388	47.76	MAv1	33.8	-48.07	1.08	34.57	54	-19.43	-	-	360	100	H
			* 4.81373	59.7	PK2	33.8	-48.18	0	45.32	-	-	74	-28.68	360	100	H
			* 4.824144	47.66	MAv1	33.8	-47.98	1.08	34.56	54	-19.44	-	-	360	201	V
			* 4.826459	59.09	PK2	33.8	-48.11	0	44.78	-	-	74	-29.22	360	201	V
			7.209198	57.47	PK2	35.7	-45.57	0	47.6	-	-	-	-	360	100	H
			7.210043	45.37	MAv1	35.7	-45.54	1.08	36.61	-	-	-	-	360	200	V
			7.218594	45.44	MAv1	35.7	-45.62	1.08	36.6	-	-	-	-	360	100	H
			7.231891	57.27	PK2	35.7	-45.73	0	47.24	-	-	-	-	360	200	V
			9.614726	58.45	PK2	36.7	-45.12	0	50.03	-	-	-	-	360	200	V
			9.628148	46.43	MAv1	36.7	-45.23	1.08	38.98	-	-	-	-	360	200	V
			9.634451	46.57	MAv1	36.7	-45.23	1.08	39.12	-	-	-	-	360	200	V
			9.634633	58.54	PK2	36.7	-45.22	0	50.02	-	-	-	-	360	200	V
	2441	4 + 3	* 4.866763	47.8	MAv1	33.8	-48.13	1.08	34.55	54	-19.45	-	-	360	100	H
			* 4.867008	47.88	MAv1	33.8	-48.14	1.08	34.62	54	-19.38	-	-	360	201	V
			* 4.871697	60.01	PK2	33.8	-47.88	0	45.93	-	-	74	-28.07	360	100	H
			* 4.880839	59.73	PK2	33.8	-48.05	0	45.48	-	-	74	-28.52	360	201	V
			* 7.308364	45.79	MAv1	35.7	-45.68	1.08	36.89	54	-17.11	-	-	360	200	V
			* 7.308991	45.91	MAv1	35.7	-45.67	1.08	37.02	54	-16.98	-	-	360	100	H
			* 7.320018	58	PK2	35.7	-45.65	0	48.05	-	-	74	-25.95	360	100	H
			* 7.339009	58.16	PK2	35.7	-45.67	0	48.19	-	-	74	-25.81	360	200	V
			9.749503	59.49	PK2	36.9	-46.09	0	50.3	-	-	-	-	360	200	V
			9.75045	47.79	MAv1	36.9	-46.14	1.08	39.63	-	-	-	-	360	100	H
			9.761979	60.24	PK2	36.9	-45.98	0	51.16	-	-	-	-	360	100	H
			9.762037	47.81	MAv1	36.9	-45.98	1.08	39.81	-	-	-	-	360	200	V
	2476	4 + 3	* 4.952736	47.14	MAv1	33.8	-47.98	1.08	34.04	54	-19.96	-	-	360	100	H
			* 4.955616	59.31	PK2	33.8	-48.02	0	45.09	-	-	74	-28.91	360	100	H
			* 4.960905	47.22	MAv1	33.8	-47.89	1.08	34.21	54	-19.79	-	-	360	201	V
			* 4.963909	59.18	PK2	33.8	-48.05	0	44.93	-	-	74	-29.07	360	201	V
			* 7.43273	57.37	PK2	35.7	-46.17	0	46.9	-	-	74	-27.1	360	100	H
			* 7.439619	45.47	MAv1	35.7	-46.28	1.08	35.97	54	-18.03	-	-	360	100	H
			* 7.44309	57.79	PK2	35.7	-46.13	0	47.36	-	-	74	-26.64	360	200	V
			* 7.44577	45.55	MAv1	35.7	-46.2	1.08	36.13	54	-17.87	-	-	360	200	V
			9.917533	47.59	MAv1	37.2	-46.18	1.08	39.69	-	-	-	-	360	200	V
			9.921871	59.26	PK2	37.2	-46.13	0	50.33	-	-	-	-	360	200	V
			9.922551	59.14	PK2	37.2	-46.11	0	50.23	-	-	-	-	360	100	H
			9.923218	47.62	MAv1	37.2	-46.12	1.08	39.78	-	-	-	-	360	100	H
	2404	4 + 3	* 13.333339	51.09	PK2	39.2	-38.5	0	51.79	-	-	74	-22.21	349	101	H
			* 13.361157	39.31	MAv1	39.2	-38.5	1.08	41.09	54	-12.91	-	-	349	101	H
			* 13.29918	50.68	PK2	39.1	-38.4	0	51.38	-	-	74	-22.62	262	200	V
			* 13.316068	39.11	MAv1	39.1	-38.6	1.08	40.69	54	-13.31	-	-	262	200	V
			4.407615	45.37	MAv1	33.8	-46.3	1.08	33.95	-	-	-	-	1	101	H
			4.413197	57.28	PK2	33.8	-46.3	0	44.78	-	-	-	-	1	101	H
			4.417475	45.31	MAv1	33.8	-46.4	1.08	33.79	-	-	-	-	349	200	V
			4.419528	57.66	PK2	33.8	-46.3	0	45.16	-	-	-	-	349	200	V
			7.213425	43.7	MAv1	35.7	-42.3	1.08	38.18	-	-	-	-	262	214	V
			7.213465	53.51	PK2	35.7	-42.3	0	46.91	-	-	-	-	262	214	V
			7.213487	43.71	MAv1	35.7	-42.3	1.08	38.19	-	-	-	-	349	215	H
			7.213504	53.9	PK2	35.7	-42.3	0	47.3	-	-	-	-	349	215	H
		4 + 3	* 11.88532	52.11	PK2	38.6	-39.5	0	51.21	-	-	74	-22.79	360	199	H
			* 11.91248	39.96	MAv1	38.6	-39.6	1.08	40.04	54	-13.96	-	-	360	199	H
			* 11.936258	52.56	PK2	38.7	-39.5	0	51.76	-	-	74	-22.24	360	101	V
			* 11.936538	39.98	MAv1	38.7	-39.5	1.08	40.26	54	-13.74	-	-	360	101	V
			* 4.882337	43.51	MAv1	34.2	-45.3	1.08	33.49	54	-20.51	-	-	360	101	V
			* 4.882799	55.46	PK2	34.2	-45.2	0	44.46	-	-	74	-29.54	360	101	H
			* 4.882883	44.34	MAv1	34.2	-45.2	1.08	34.42	54	-19.58	-	-	360	101	H
			* 4.89283	55.34	PK2	34.2	-45.1	0	44.44	-	-	74	-29.56	360	101	V
			7.770839	53.33	PK2	35.9	-41.9	0	47.33	-	-	-	-	360	101	H
			7.783554	41.02	MAv1	35.9	-42.1	1.08	35.9	-	-	-	-	360	200	V
			7.783746	53.06	PK2	35.9	-42.1	0	46.86	-	-	-	-	360	200	V
			7.791986	41.24	MAv1	35.9	-42.2	1.08	36.02	-	-	-	-	360	101	H
	2476	4 + 3	* 3.804729	56.08	PK2	33.4	-45.3	0	44.18	-	-	74	-29.82	360	101	H
			* 3.806987	44.07	MAv1	33.4	-45.3	1.08	33.25	54	-20.75	-	-	360	101	H
			* 4.843272	43.58	MAv1	34.1	-45.3	1.08	33.46	54	-20.54	-	-	324	199	V
			* 4.852681	55.99	PK2	34.1	-45.3	0	44.79	-	-	74	-29.21	324	199	V
			* 7.42748	54.44	PK2	35.7	-42.2	0	47.94	-	-	74	-26.06	53	127	H
			* 7.429043	53.95	PK2	35.7	-42.2	0	47.45	-	-	74	-26.55	131	240	V
			* 7.429305	43.14	MAv1	35.7	-42.2	1.08	37.72	54	-16.28	-	-	131	240	V
			* 7.42948	45.23	MAv1	35.7	-42.2	1.08	39.81	54	-14.19	-	-	53	127	H
			17.071893	51.1	PK2	41.7	-36.1	0	56.7	-	-	-	-	208	322	V
			17.079959	39.07	MAv1	41.7	-36.1	1.08	45.75	-	-	-	-	208	322	V
			17.61283	50.13	PK2	41.7	-35.4	0	56.43	-	-	-	-	324	291	H
			17.636168	38.36	MAv1	41.7	-35.3	1.08	45.84	-	-	-	-	324	291	H

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

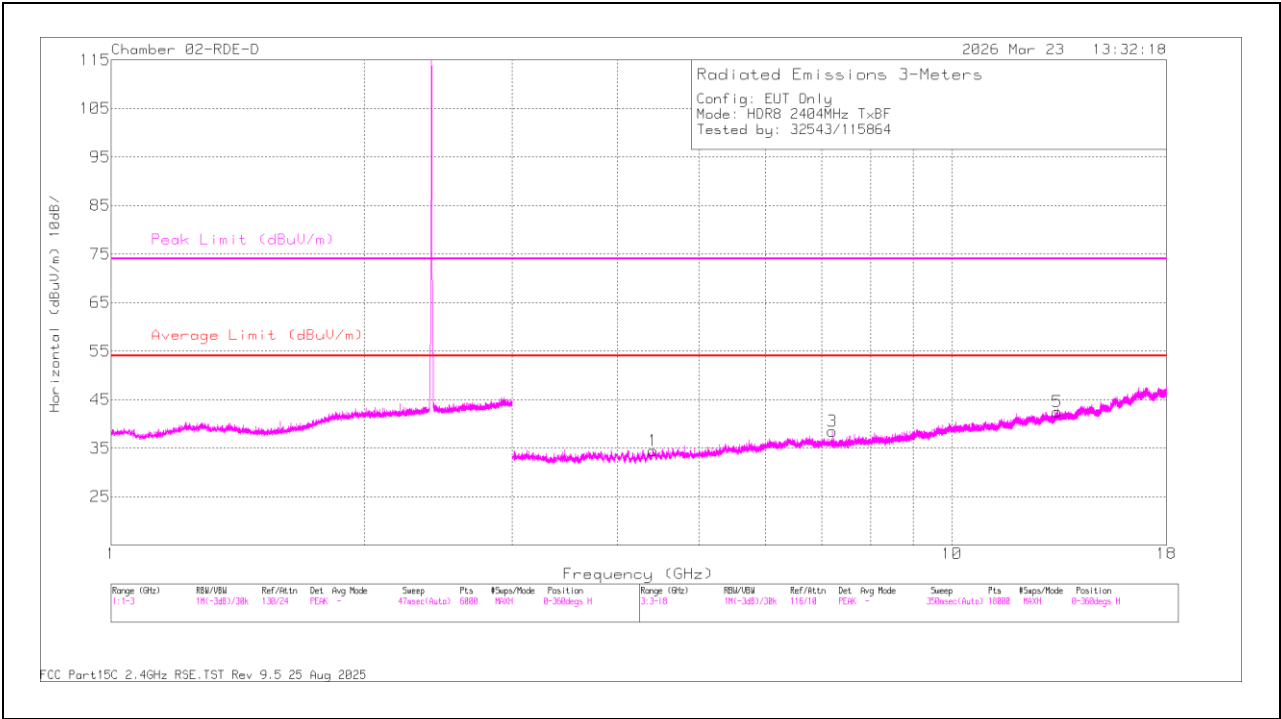
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

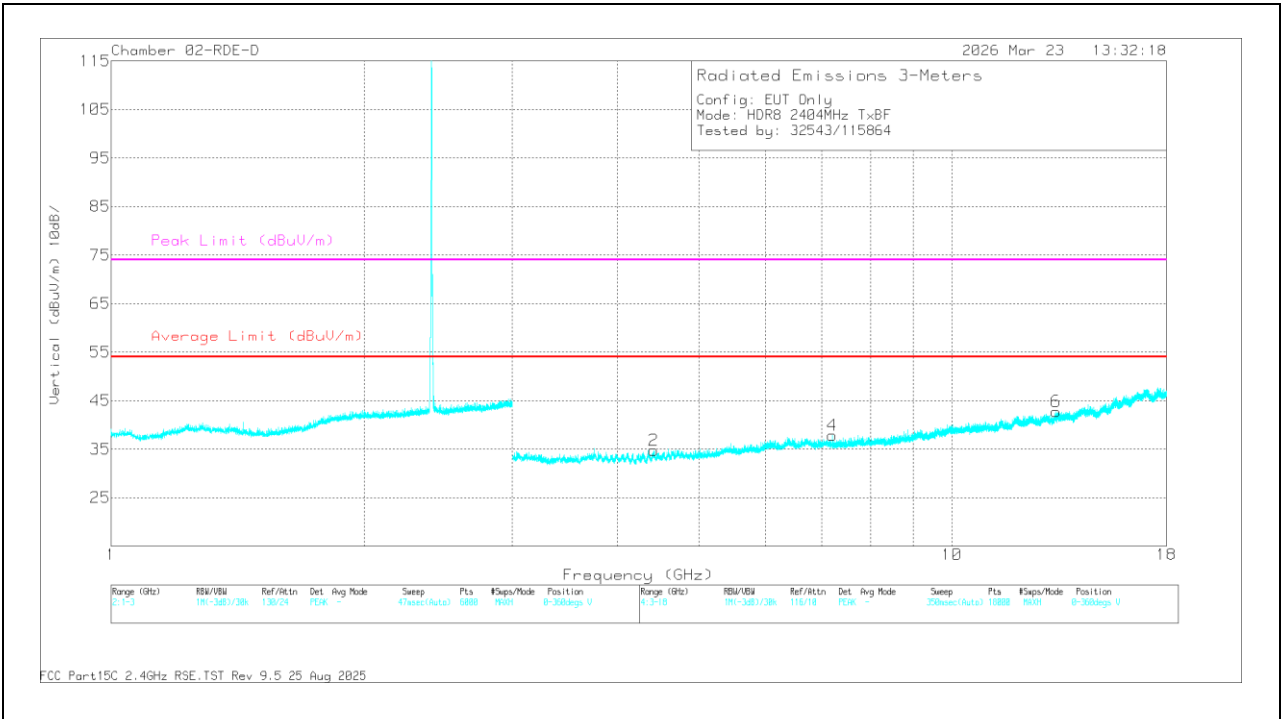
10.1.12. SPURIOUS EMISSIONS – WORST-CASE

HDR8 / 2404 MHz / HIGH POWER / MIMO TXBF

HORIZONTAL RESULT



VERTICAL RESULT



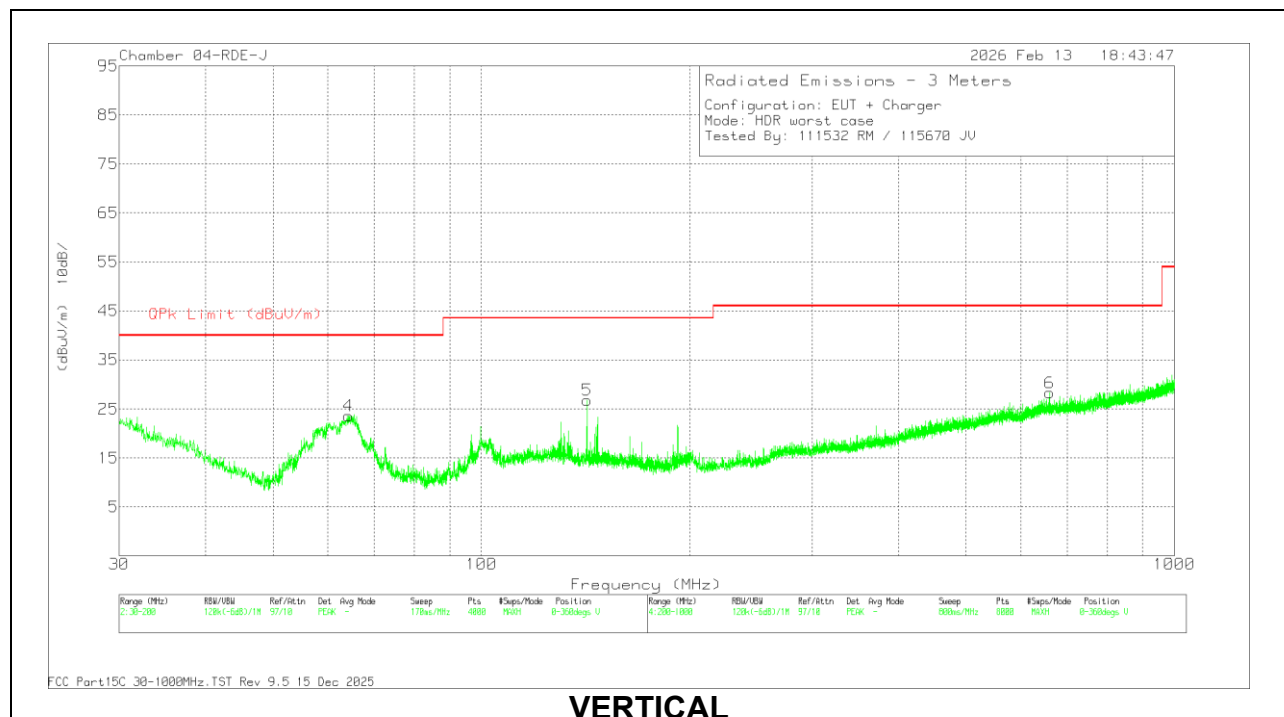
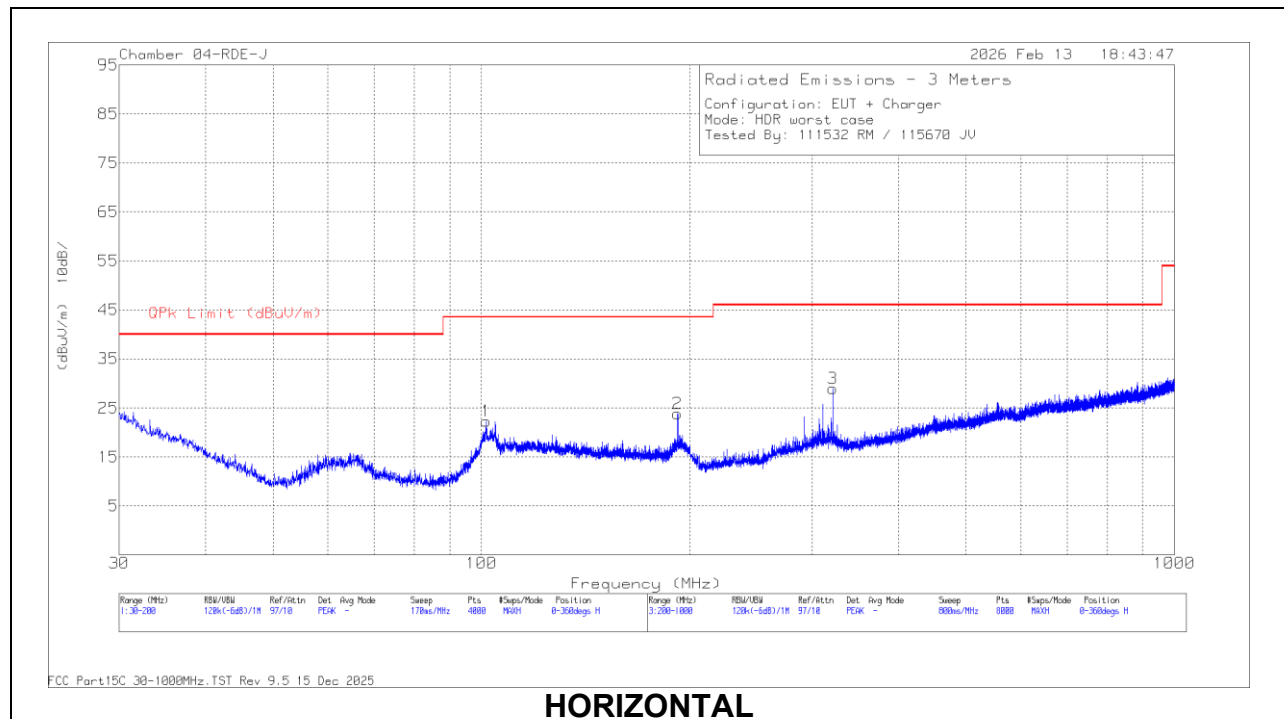
MEASURED DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226674 ACF (dB/m)	Amp/Cbl (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 13.333339	51.09	PK2	39.2	-38.5	0	51.79	-	-	74	-22.21	349	101	H
	* 13.361157	39.31	MAV1	39.2	-38.5	1.08	41.09	54	-12.91	-	-	349	101	H
6	* 13.29918	50.68	PK2	39.1	-38.4	0	51.38	-	-	74	-22.62	262	200	V
	* 13.316068	39.11	MAV1	39.1	-38.6	1.08	40.69	54	-13.31	-	-	262	200	V
1	4.407615	45.37	MAV1	33.8	-46.3	1.08	33.95	-	-	-	-	1	101	H
	4.413197	57.28	PK2	33.8	-46.3	0	44.78	-	-	-	-	1	101	H
2	4.417475	45.31	MAV1	33.8	-46.4	1.08	33.79	-	-	-	-	349	200	V
	4.419528	57.66	PK2	33.8	-46.3	0	45.16	-	-	-	-	349	200	V
4	7.213425	43.7	MAV1	35.7	-42.3	1.08	38.18	-	-	-	-	262	214	V
	7.213465	53.51	PK2	35.7	-42.3	0	46.91	-	-	-	-	262	214	V
3	7.213487	43.71	MAV1	35.7	-42.3	1.08	38.19	-	-	-	-	349	215	H
	7.213504	53.9	PK2	35.7	-42.3	0	47.3	-	-	-	-	349	215	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

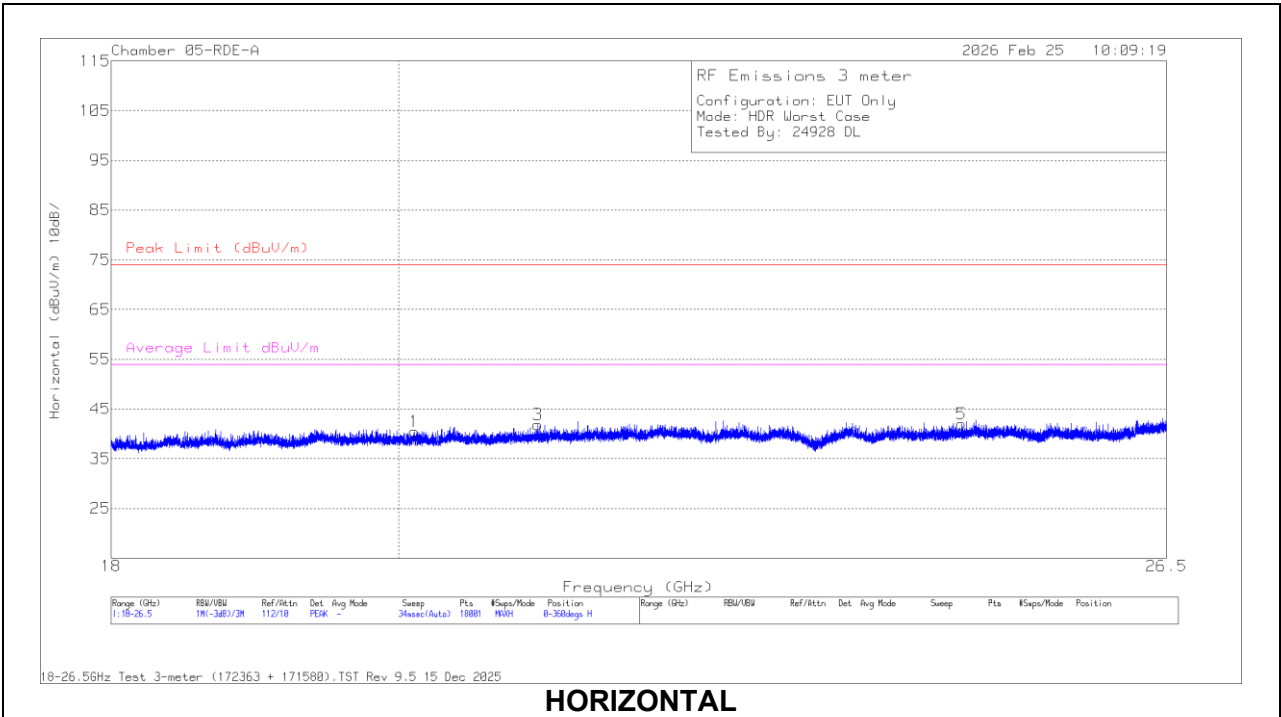
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	202329 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	101.504	36.81	Pk	16.7	-31.2	22.31	43.52	-21.21	0-360	199	H
2	191.924	37.26	Pk	17.3	-30.7	23.86	43.52	-19.66	0-360	199	H
3	321.416	39.37	Pk	19.8	-30.2	28.97	46.02	-17.05	0-360	99	H
4	64.3064	41.32	Pk	13.7	-31.4	23.62	40	-16.38	0-360	100	V
	64.2466	36.63	Qp	13.7	-31.4	18.93	40	-21.07	276	100	V
5	141.931	39.02	Pk	18.8	-31	26.82	43.52	-16.7	0-360	100	V
6	661.06	31.87	Pk	25.6	-29.2	28.27	46.02	-17.75	0-360	99	V

Pk - Peak detector

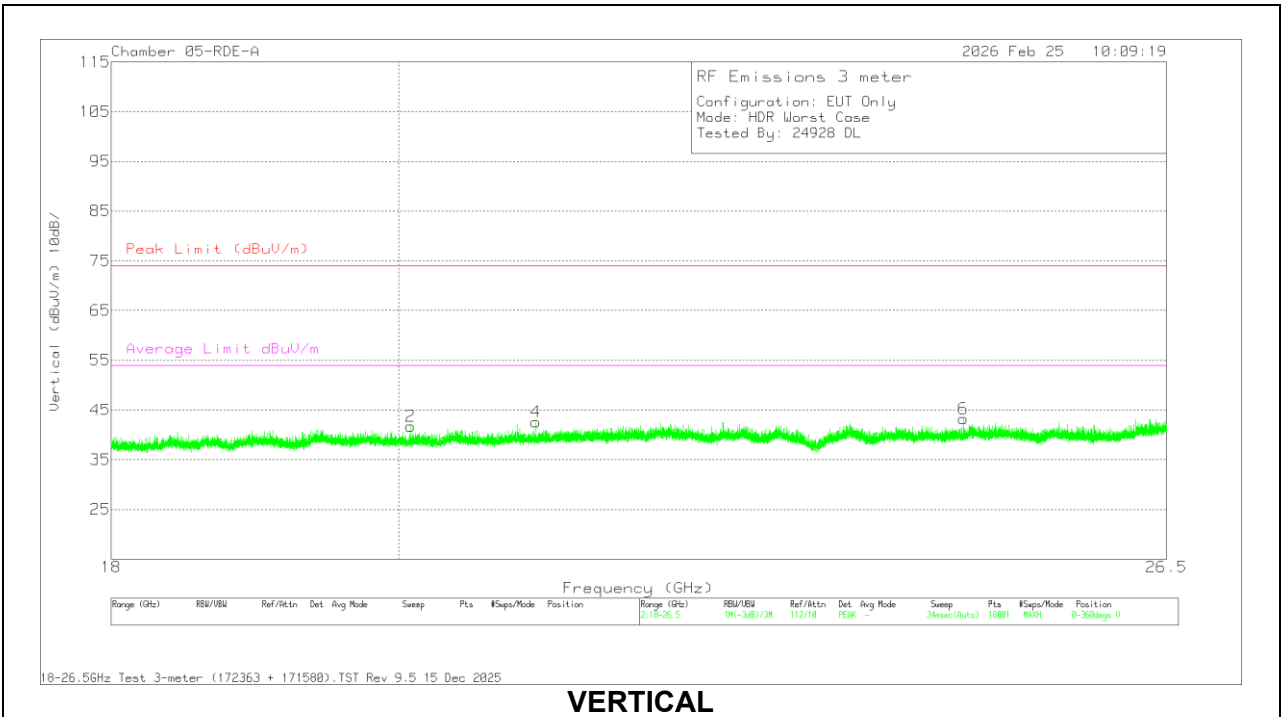
Qp - Quasi-Peak detector

10.3. 18 GHz - 26 GHz – WORST-CASE

SPURIOUS EMISSIONS



HORIZONTAL



VERTICAL

MEASURED DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172363 ACF (dB/m)	CBL/AMP (dB)	Amp/Cbl/Filtr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit (dBuV/m)	Avg Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 20.11413	55.17	Pk	32.5	-62	14.8	40.47	74	-33.53	-	-	0-360	101	H
	* 20.11413	55.17	Pk	32.5	-62	14.8	40.47	-	-	54	-13.53	0-360	101	H
3	* 21.04677	56.16	Pk	32.9	-62.4	15.2	41.86	74	-32.14	-	-	0-360	101	H
	* 21.04677	56.16	Pk	32.9	-62.4	15.2	41.86	-	-	54	-12.14	0-360	101	H
2	* 20.08863	56.46	Pk	32.5	-62	14.8	41.76	74	-32.24	-	-	0-360	200	V
	* 20.08863	56.46	Pk	32.5	-62	14.8	41.76	-	-	54	-12.24	0-360	200	V
4	* 21.03072	56.93	Pk	32.9	-62.4	15.2	42.63	74	-31.37	-	-	0-360	200	V
	* 21.03072	56.93	Pk	32.9	-62.4	15.2	42.63	-	-	54	-11.37	0-360	200	V
5	24.57994	54.86	Pk	33.6	-63.1	16.6	41.96	-	-	-	-	0-360	101	H
6	24.59694	56.19	Pk	33.6	-63.2	16.6	43.19	-	-	-	-	0-360	101	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 (dBμV)	
	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

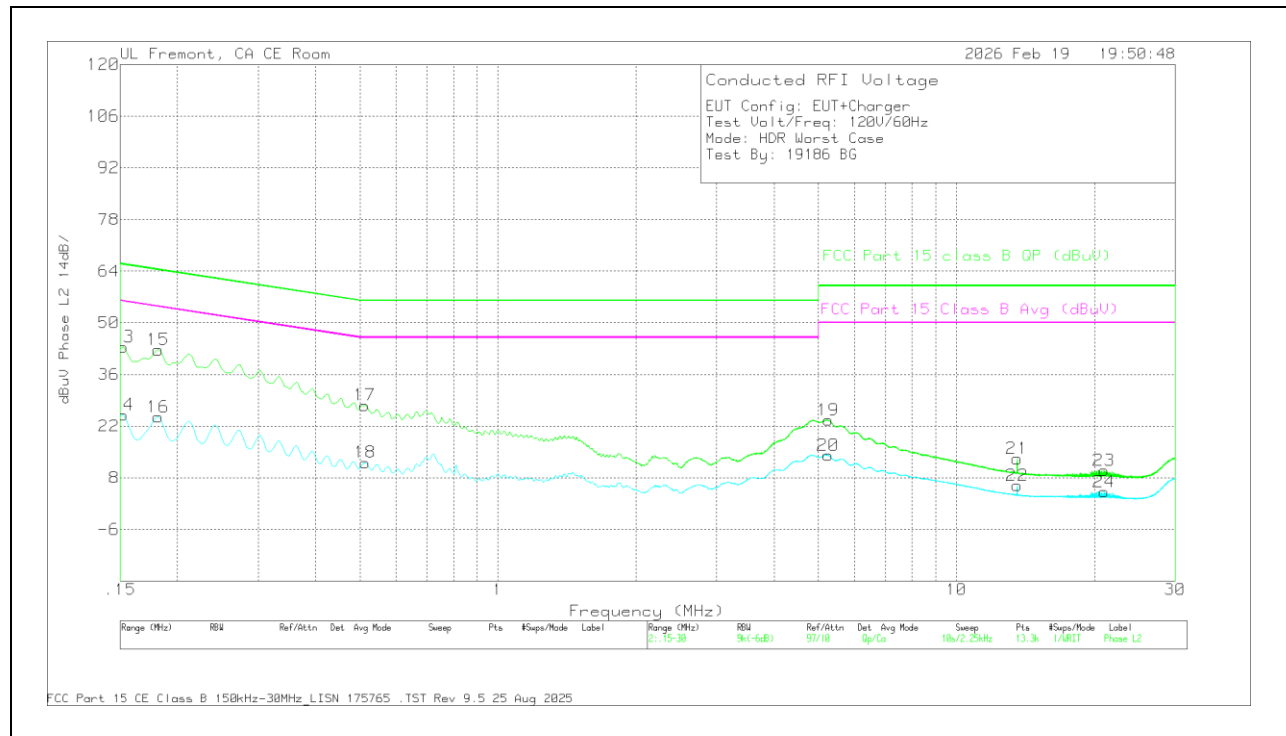
LINE 1 RESULTS



MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.1523	14.13	Ca	0	.1	10	24.23	55.88	-31.65	-	-
4	.2423	11.85	Ca	0	0	10	21.85	52.02	-30.17	-	-
6	.6945	5.19	Ca	.1	0	10	15.29	46	-30.71	-	-
8	4.7423	2.21	Ca	.1	0	10	12.31	46	-33.69	-	-
10	13.56	-2.2	Ca	.2	.1	10	8.1	50	-41.9	-	-
12	20.7353	-3.79	Ca	.3	.1	10	6.61	50	-43.39	-	-
1	.168	37.32	Qp	0	.1	10	47.42	-	-	65.06	-17.64
3	.258	32.07	Qp	0	0	10	42.07	-	-	61.5	-19.43
5	.672	17.36	Qp	.1	0	10	27.46	-	-	56	-28.54
7	4.704	12.68	Qp	.2	0	10	22.88	-	-	56	-33.12
9	13.56	4.56	Qp	.2	.1	10	14.86	-	-	60	-45.14
11	20.7353	1.21	Qp	.3	.1	10	11.61	-	-	60	-48.39

Qp - Quasi-Peak detector
Ca - CISPR average detection

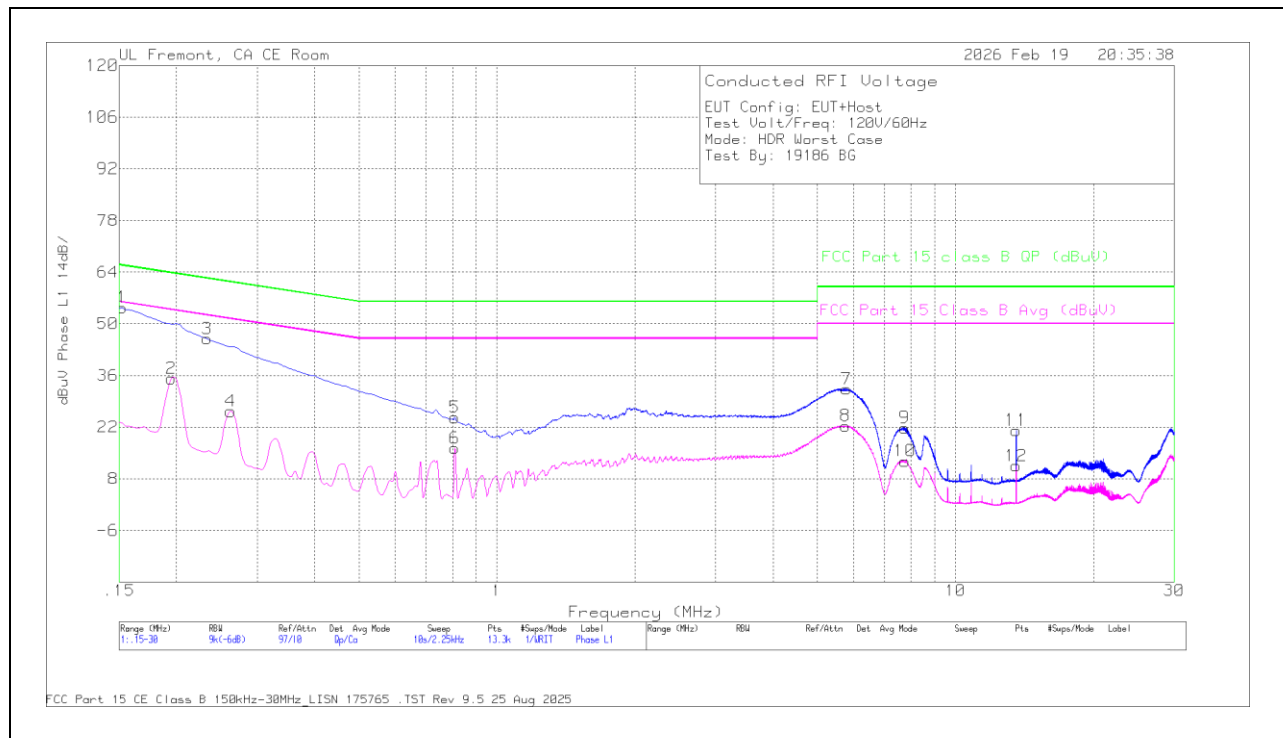
LINE 2 RESULTS**MEASURED DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1523	14.94	Ca	0	.1	10	25.04	55.88	-30.84	-	-
16	.1815	14.46	Ca	0	0	10	24.46	54.42	-29.96	-	-
18	.5134	2.12	Ca	0	0	10	12.12	46	-33.88	-	-
20	5.2474	3.88	Ca	.2	0	10	14.08	50	-35.92	-	-
22	13.56	-4.42	Ca	.2	.1	10	5.88	50	-44.12	-	-
24	20.976	-6.24	Ca	.3	.1	10	4.16	50	-45.84	-	-
13	.1523	33.35	Qp	0	.1	10	43.45	-	-	65.88	-22.43
15	.1815	32.66	Qp	0	0	10	42.66	-	-	64.42	-21.76
17	.5123	17.64	Qp	0	0	10	27.64	-	-	56	-28.36
19	5.2485	13.41	Qp	.2	0	10	23.61	-	-	60	-36.39
21	13.56	2.87	Qp	.2	.1	10	13.17	-	-	60	-46.83
23	20.976	-4.42	Qp	.3	.1	10	9.98	-	-	60	-50.02

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.2. AC POWER LINE WITH LAPTOP

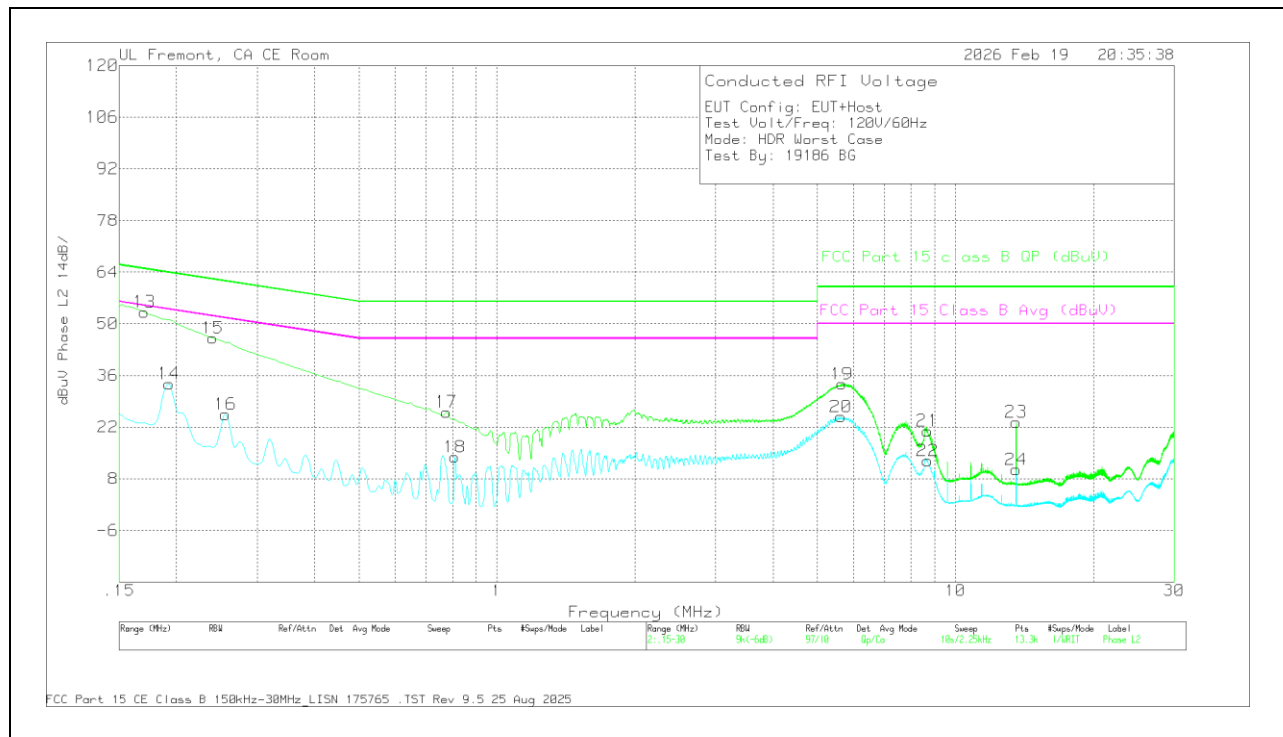
LINE 1 RESULTS



MEASURED DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
2	.195	25.08	Ca	0	.1	10	35.18	53.82	-18.64	-	-
4	.2625	16.29	Ca	0	0	10	26.29	51.35	-25.06	-	-
6	.8093	6.17	Ca	.1	0	10	16.27	46	-29.73	-	-
8	5.7548	12.13	Ca	.2	0	10	22.33	50	-27.67	-	-
10	7.7595	2.6	Ca	.2	0	10	12.8	50	-37.2	-	-
12	13.56	1.21	Ca	.2	.1	10	11.51	50	-38.49	-	-
1	.1523	44.3	Qp	0	.1	10	54.4	-	-	65.88	-11.48
3	.2333	35.95	Qp	0	0	10	45.95	-	-	62.33	-16.38
5	.8093	14.49	Qp	.1	0	10	24.59	-	-	56	-31.41
7	5.7863	22.12	Qp	.2	0	10	32.32	-	-	60	-27.68
9	7.7483	11.61	Qp	.2	0	10	21.81	-	-	60	-38.19
11	13.56	10.8	Qp	.2	.1	10	21.1	-	-	60	-38.9

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS**MEASURED DATA**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Cbl (dB)	LISN (dB)	10dB Atten (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B Avg (dBuV)	Margin (dB)	FCC Part 15 class B QP (dBuV)	Margin (dB)
14	.1928	23.74	Ca	0	0	10	33.74	53.92	-20.18	-	-
16	.2558	15.44	Ca	0	0	10	25.44	51.57	-26.13	-	-
18	.8093	3.81	Ca	.1	0	10	13.91	46	-32.09	-	-
20	5.6243	14.6	Ca	.2	0	10	24.8	50	-25.2	-	-
22	8.6933	2.69	Ca	.2	0	10	12.89	50	-37.11	-	-
24	13.56	.18	Ca	.2	.1	10	10.48	50	-39.52	-	-
13	.1703	43.16	Qp	0	0	10	53.16	-	-	64.95	-11.79
15	.24	36.13	Qp	0	0	10	46.13	-	-	62.1	-15.97
17	.7755	15.95	Qp	.1	0	10	26.05	-	-	56	-29.95
19	5.6535	23.48	Qp	.2	0	10	33.68	-	-	60	-26.32
21	8.691	10.76	Qp	.2	0	10	20.96	-	-	60	-39.04
23	13.56	13.03	Qp	.2	.1	10	23.33	-	-	60	-36.67

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 15982152-EP1 for setup photos.

13. APPENDIX A – SPOT CHECK EVALUATION

13.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3472, A3713, A3714 and A3715. These models are very similar, with only the following differences.

Model	FCC ID	Feature Difference	Sim Support	Reference Model
A3472	BCG-E9186A	-With FR2 -No LTE B11, B21	eSIM	-
A3713	BCG-E9192A	-Without FR2 -Added LTE B11, B21	eSIM	A3472
A3714	BCG-E9193A	-Without FR2 -No LTE/5GNR B14, B29, B71 -No LTE B11, B21	eSIM	
A3715	BCG-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. For models without FR2 may have different antenna gains on certain bands. 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 A3713

A3713 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3472	Sub Model: A3713	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9186A IC : 579C-E9186A	FCC ID : BCG-E9192A IC : 579C-E9192A			
DTS/HDR	2.4	HDR4 (TxBF) High Power	4 Mbps	Output Power (dBm)	High	2.476	19.77	19.67	-0.10	-10.23	Note 1
		HDR4 (ANT 4) High Power	4 Mbps	Radiated Bandedge (dBuV/m)	High	Horizontal High Bandedge AVG	51.29	49.46	-1.83	-2.71	Note 1
		HDR8 (TxBF) High Power	8 Mbps	RSE (dBuV/m)	Low	Horizontal AVG 13.36 GHz	41.09	40.68	-0.41	-12.91	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.

13.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3714

A3714 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3472	Sub Model: A3714	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9186A IC : 579C-E9186A	FCC ID : BCG-E9193A IC : 579C-E9192A			
DTS/HDR	2.4	HDR4 (TxBF) High Power	4 Mbps	Output Power (dBm)	High	2.476	19.77	19.73	-0.04	-10.23	Note 1
		HDR4 (ANT 4) High Power	4 Mbps	Radiated Bandedge (dBuV/m)	High	Horizontal High Bandedge AVG	51.29	50.56	-0.73	-2.71	Note 1
		HDR8 (TxBF) High Power	8 Mbps	RSE (dBuV/m)	Low	Horizontal AVG 13.36 GHz	41.09	41.72	0.63	-12.91	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.

13.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3715

A3715 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3472	Sub Model: A3715	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E9186A IC : 579C-E9186A	FCC ID : BCG-E9194A IC : 579C-E9194A			
DTS/HDR	2.4	HDR4 (TxBF) High Power	4 Mbps	Output Power (dBm)	High	2.476	19.77	19.70	-0.07	-10.23	Note 1
		HDR4 (ANT 4) High Power	4 Mbps	Radiated Bandedge (dBuV/m)	High	Horizontal High Bandedge AVG	51.29	49.28	-2.01	-2.71	Note 1
		HDR8 (TxBF) High Power	8 Mbps	RSE (dBuV/m)	Low	Horizontal AVG 13.36 GHz	41.09	41.62	0.53	-12.91	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.