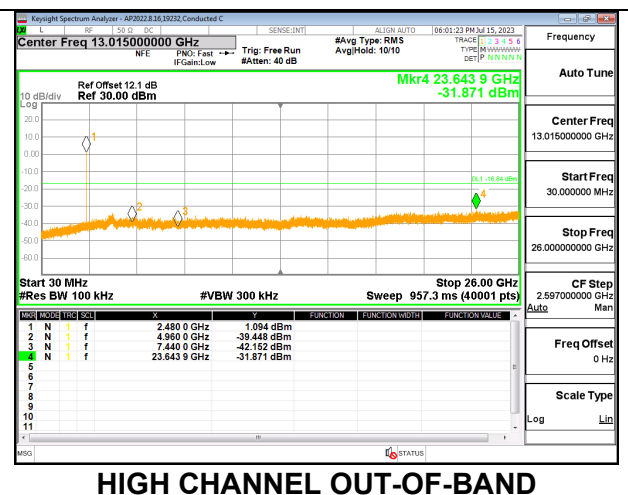
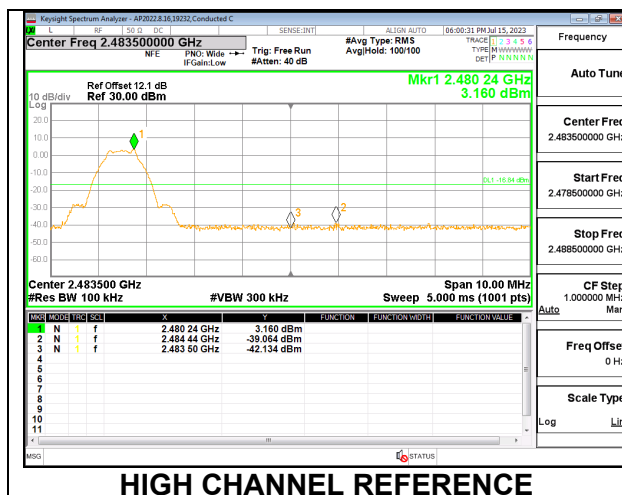
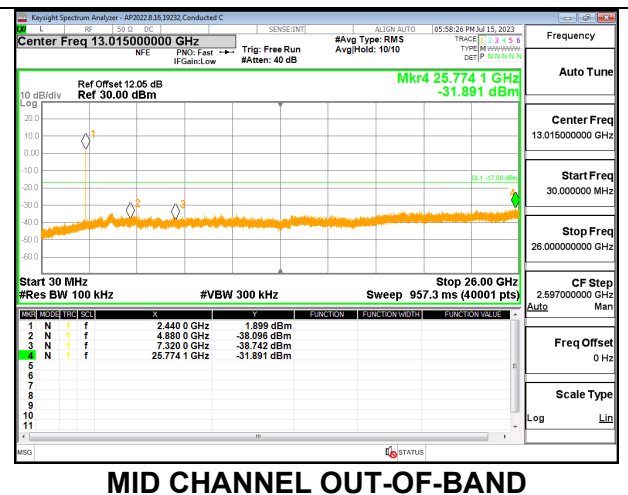
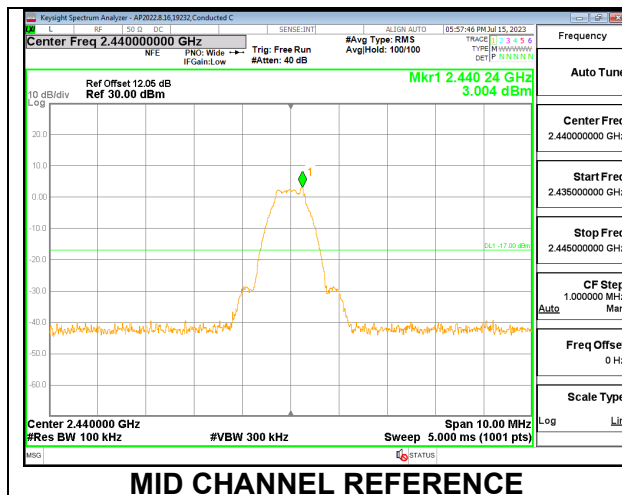
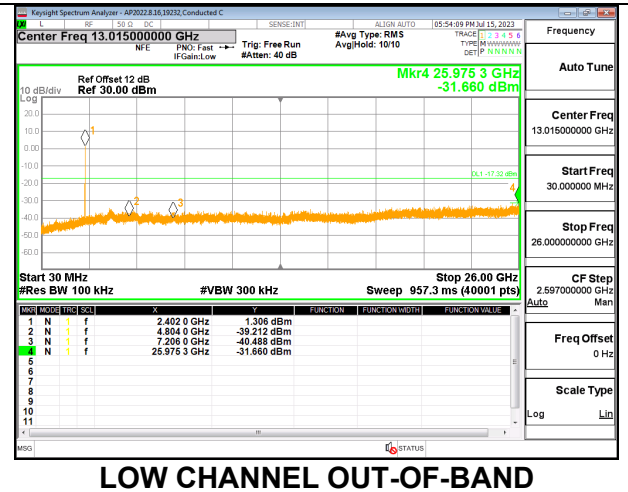
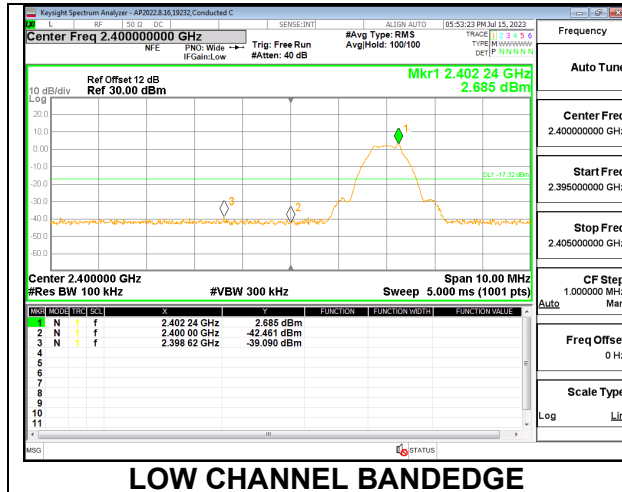
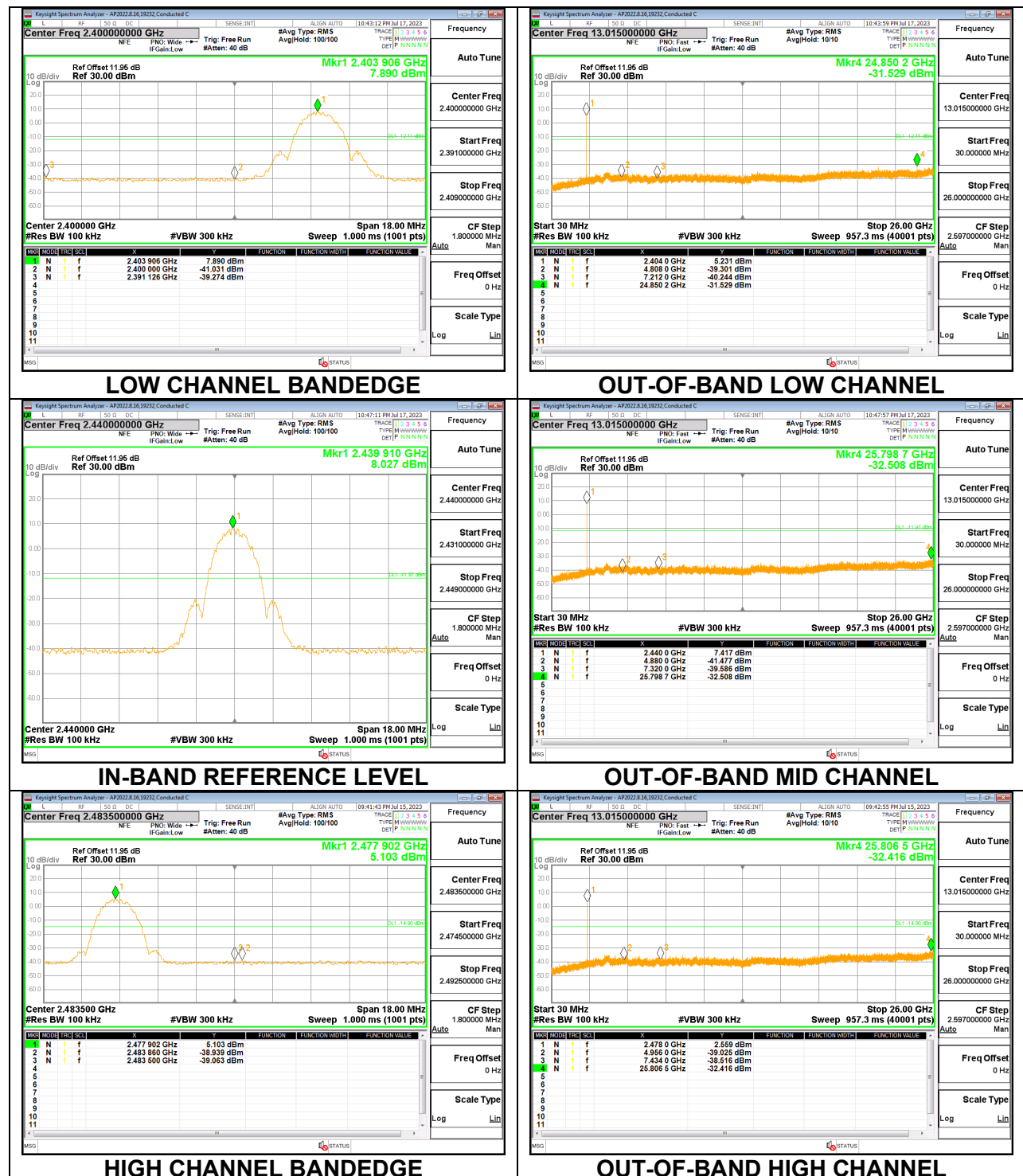


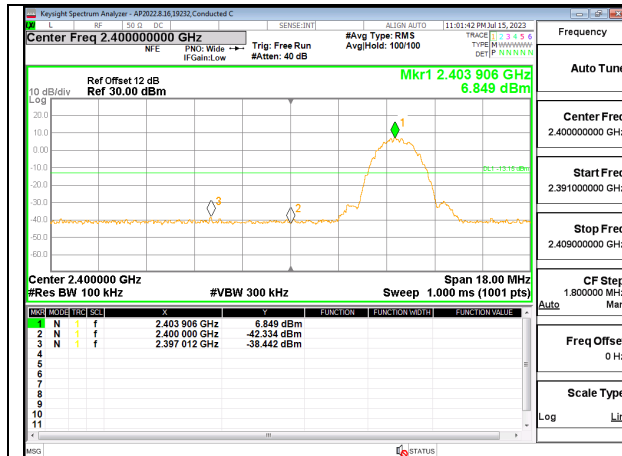
ANT 3



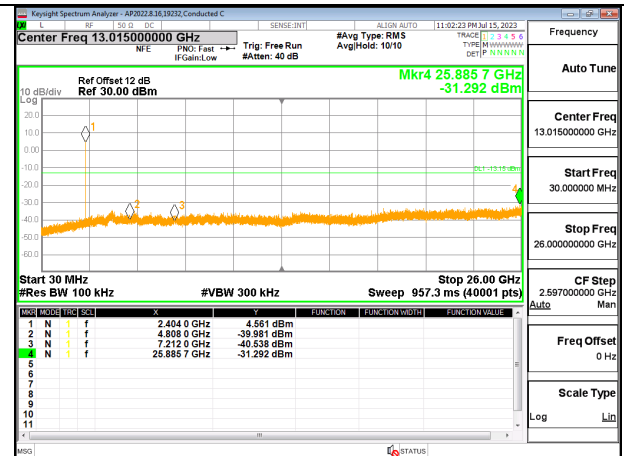
9.6.7. LOW POWER BLE (2Mbps) ANT 4



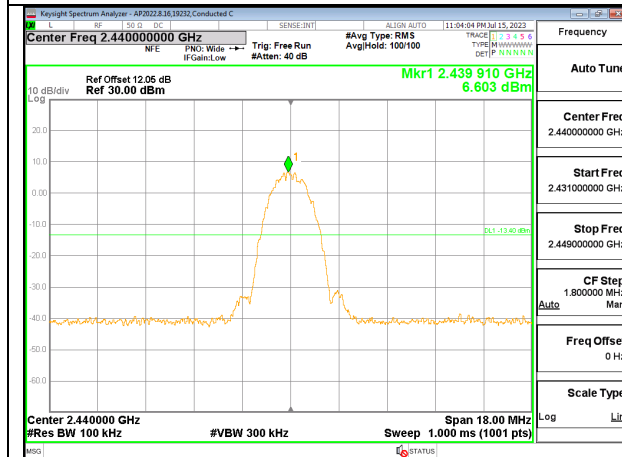
ANT 3



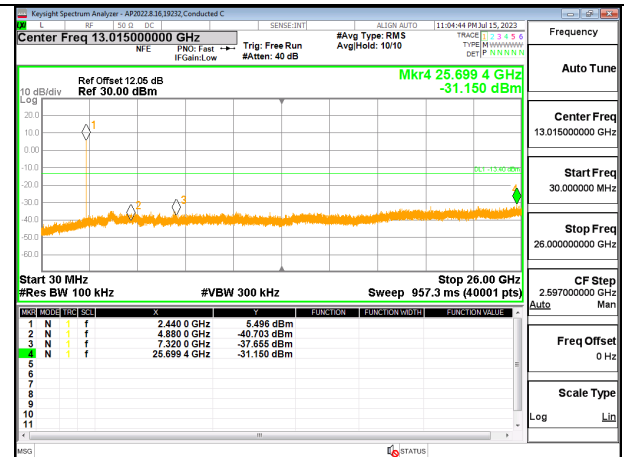
LOW CHANNEL BANDEDGE



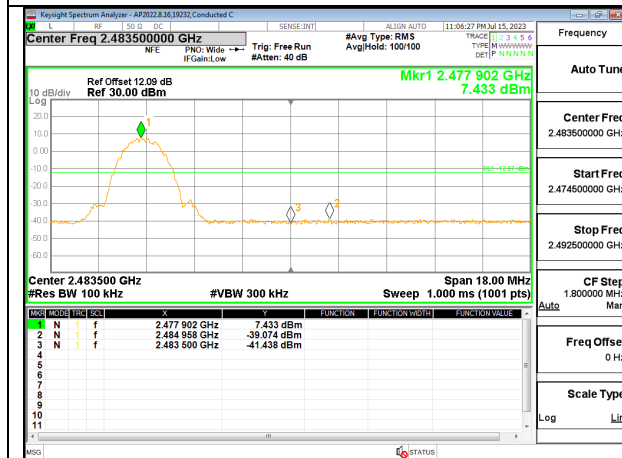
OUT-OF-BAND LOW CHANNEL



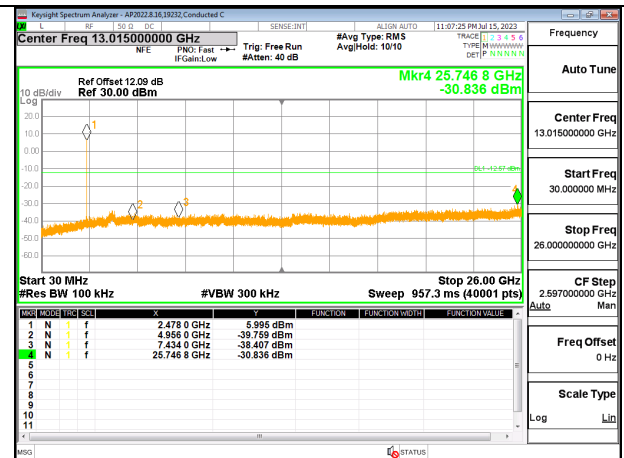
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



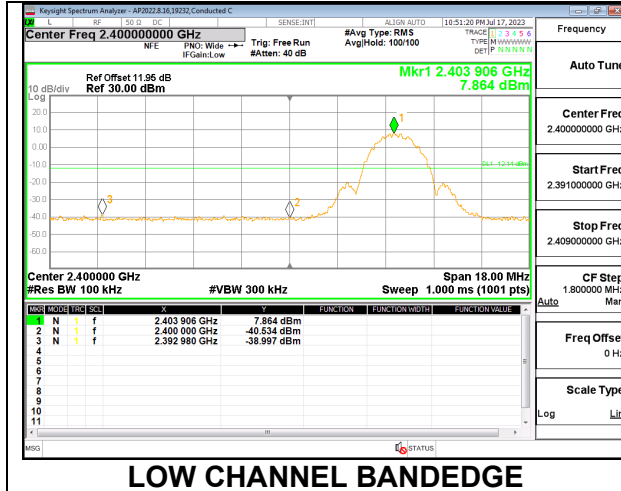
HIGH CHANNEL BANDEDGE



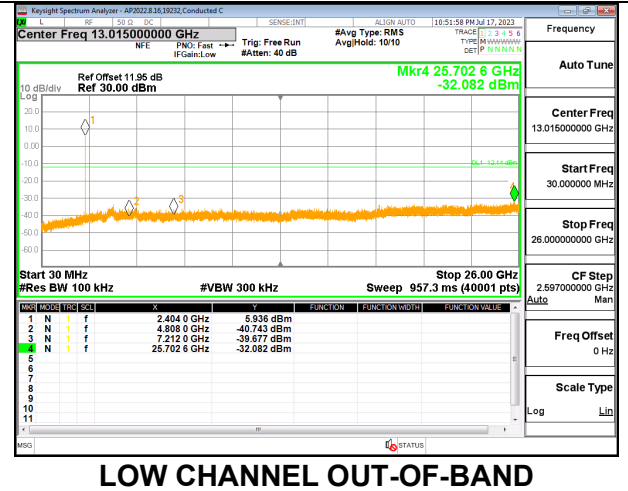
OUT-OF-BAND HIGH CHANNEL

9.6.8. LOW POWER BLE TXBF (2Mbps)

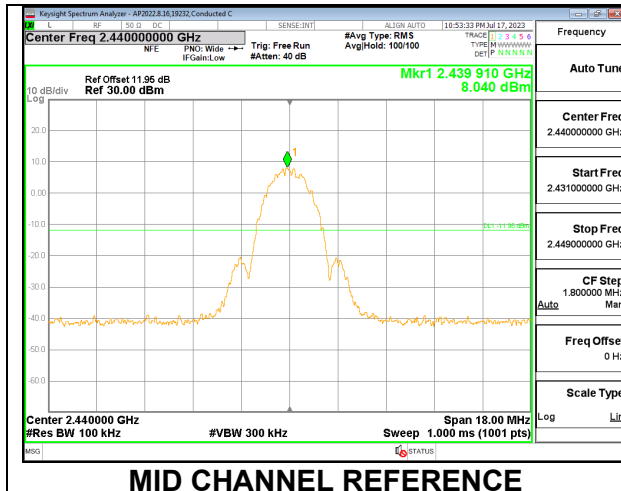
ANT 4



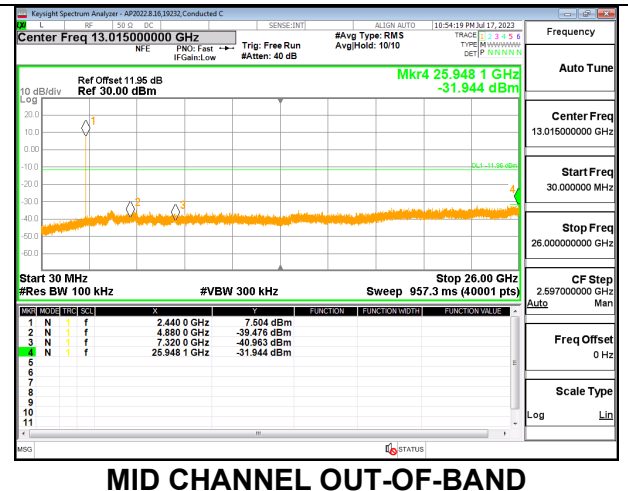
LOW CHANNEL BANDEDGE



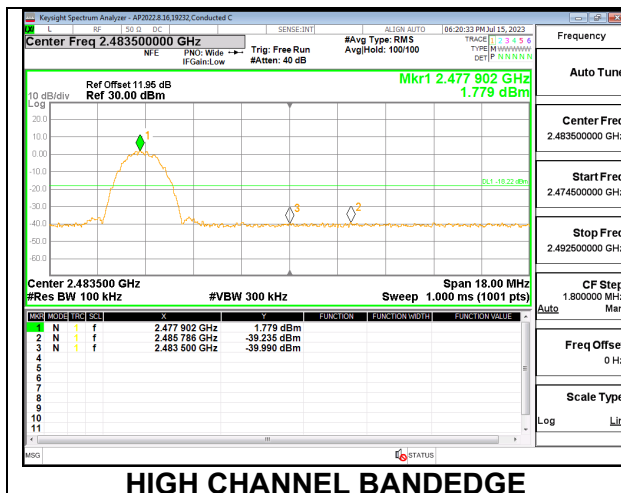
LOW CHANNEL OUT-OF-BAND



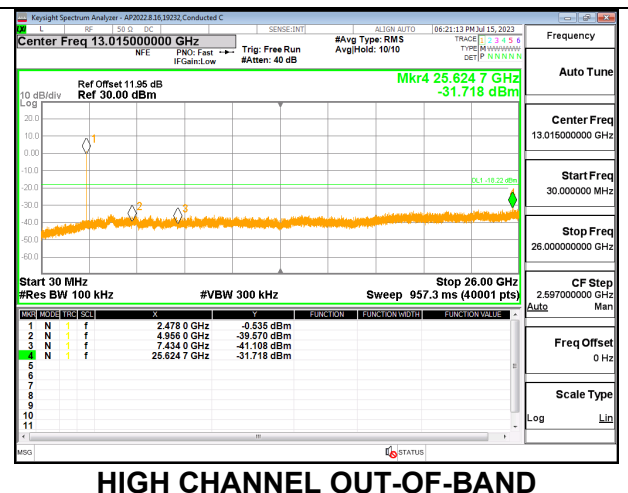
MID CHANNEL REFERENCE



MID CHANNEL OUT-OF-BAND

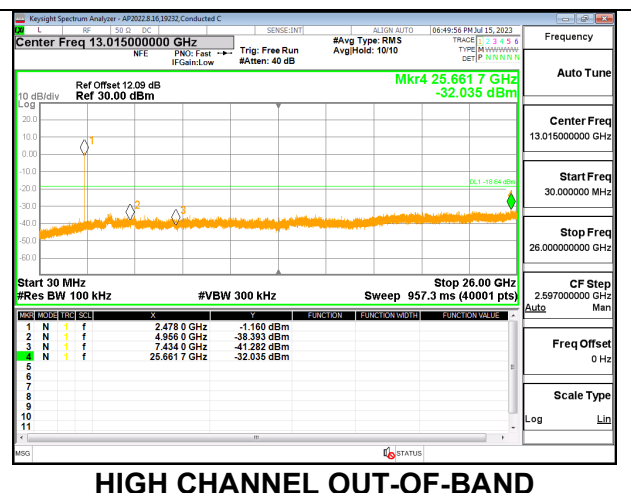
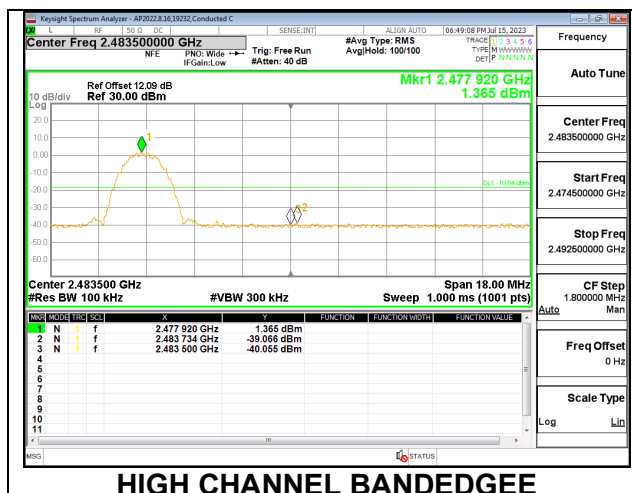
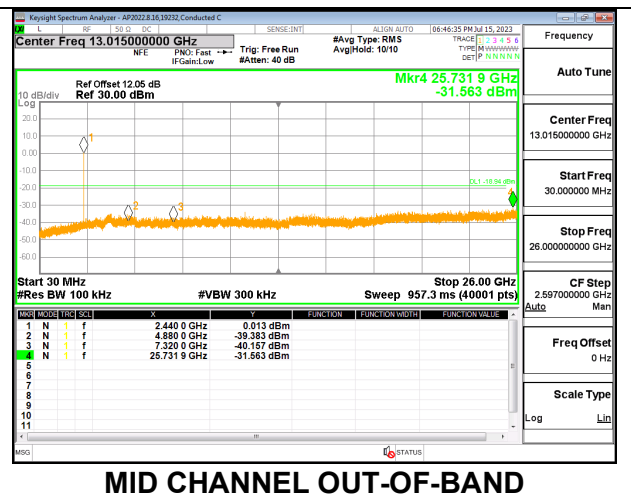
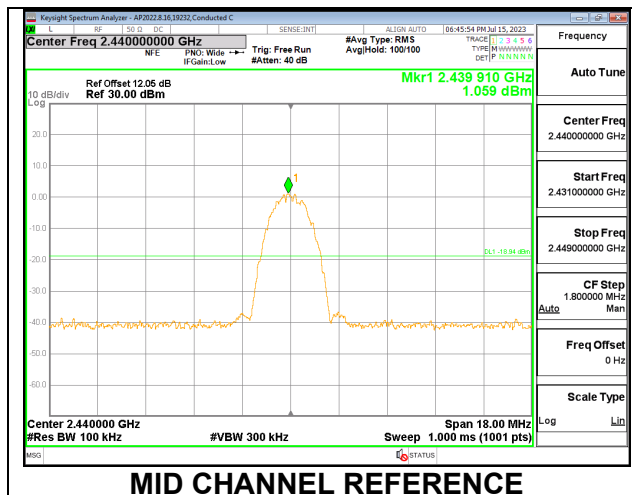
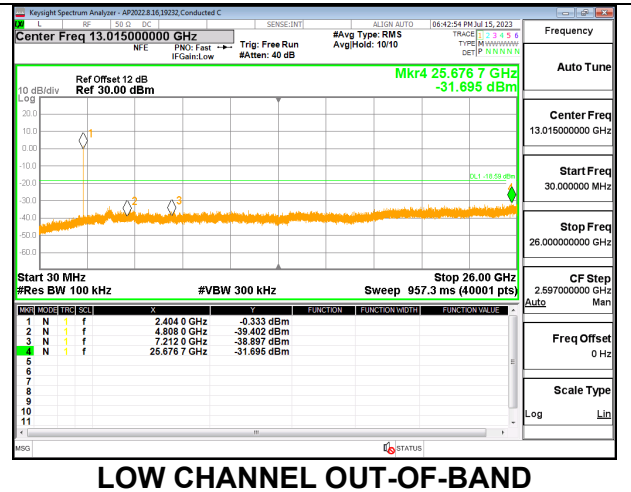
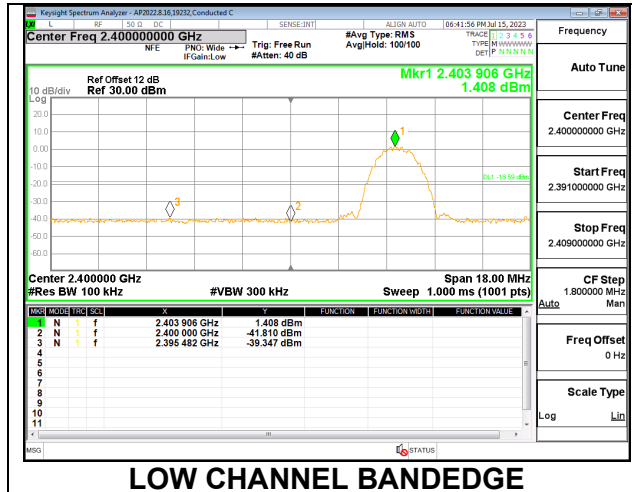


HIGH CHANNEL BANDEDGE



HIGH CHANNEL OUT-OF-BAND

ANT 3



10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

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 has to 15.209(a) limit.

In addition:

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

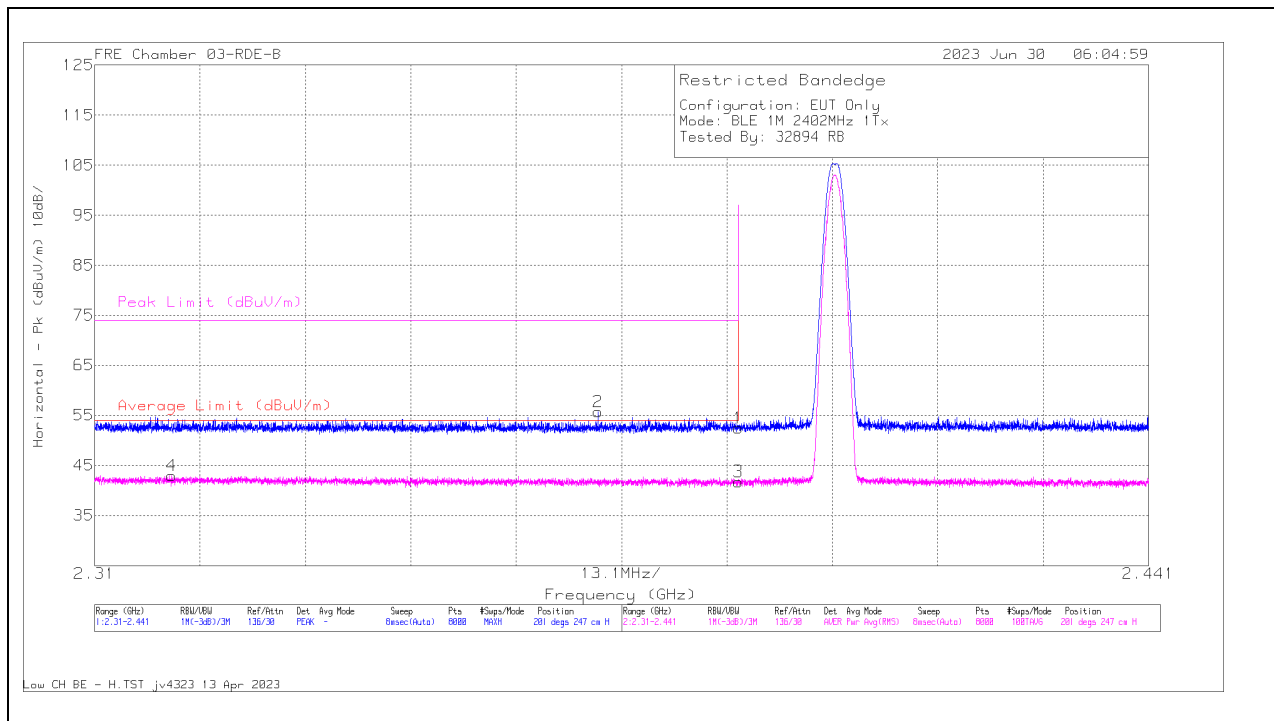
10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. HIGH POWER BLE (1Mbps)

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



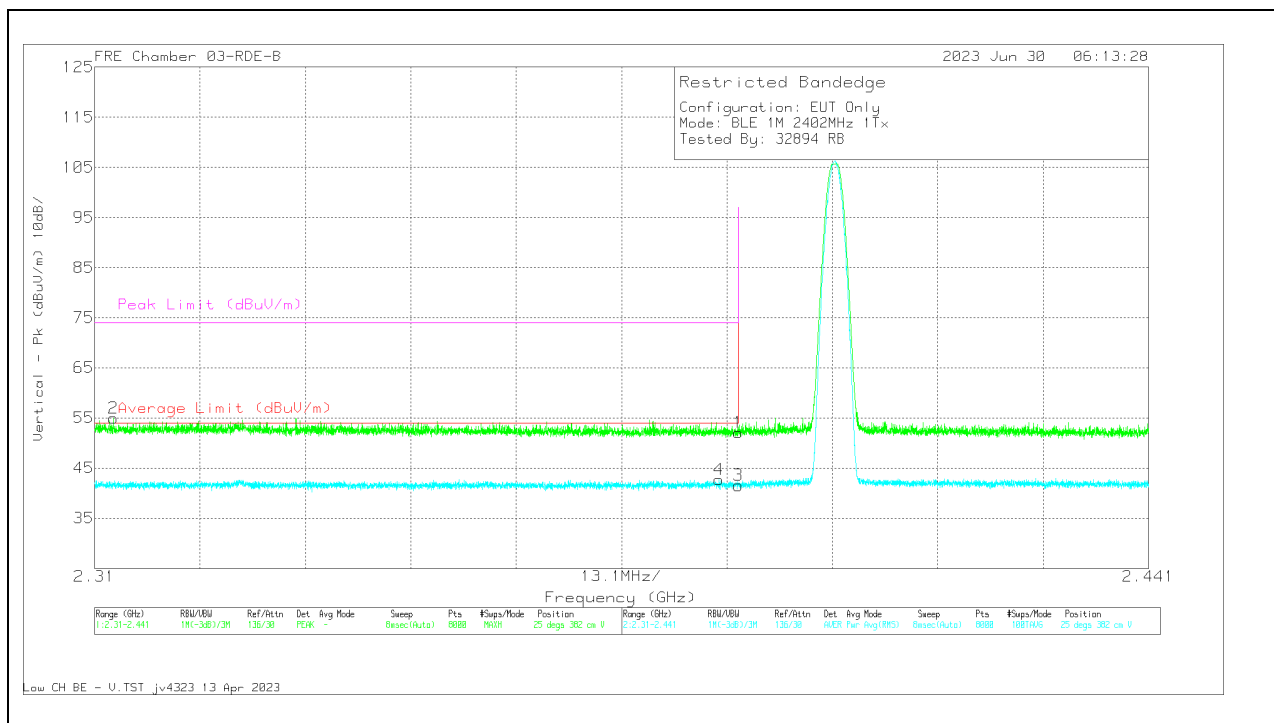
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.49	Pk	32.2	-41.2	52.49	-	-	74	-21.51	201	247	H
2	* 2.372593	64.84	Pk	32.1	-41.26	55.68	-	-	74	-18.32	201	247	H
3	* 2.39	50.77	RMS	32.2	-41.2	41.77	54	-12.23	-	-	201	247	H
4	* 2.319597	52.1	RMS	32.1	-41.2	43	54	-11	-	-	201	247	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (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	61.09	Pk	32.2	-41.2	52.09	-	-	74	-21.91	25	382	V
2	* 2.312326	64.17	Pk	32	-41.2	54.97	-	-	74	-19.03	25	382	V
3	* 2.39	50.53	RMS	32.2	-41.2	41.53	54	-12.47	-	-	25	382	V
4	* 2.387578	51.66	RMS	32.2	-41.16	42.7	54	-11.3	-	-	25	382	V

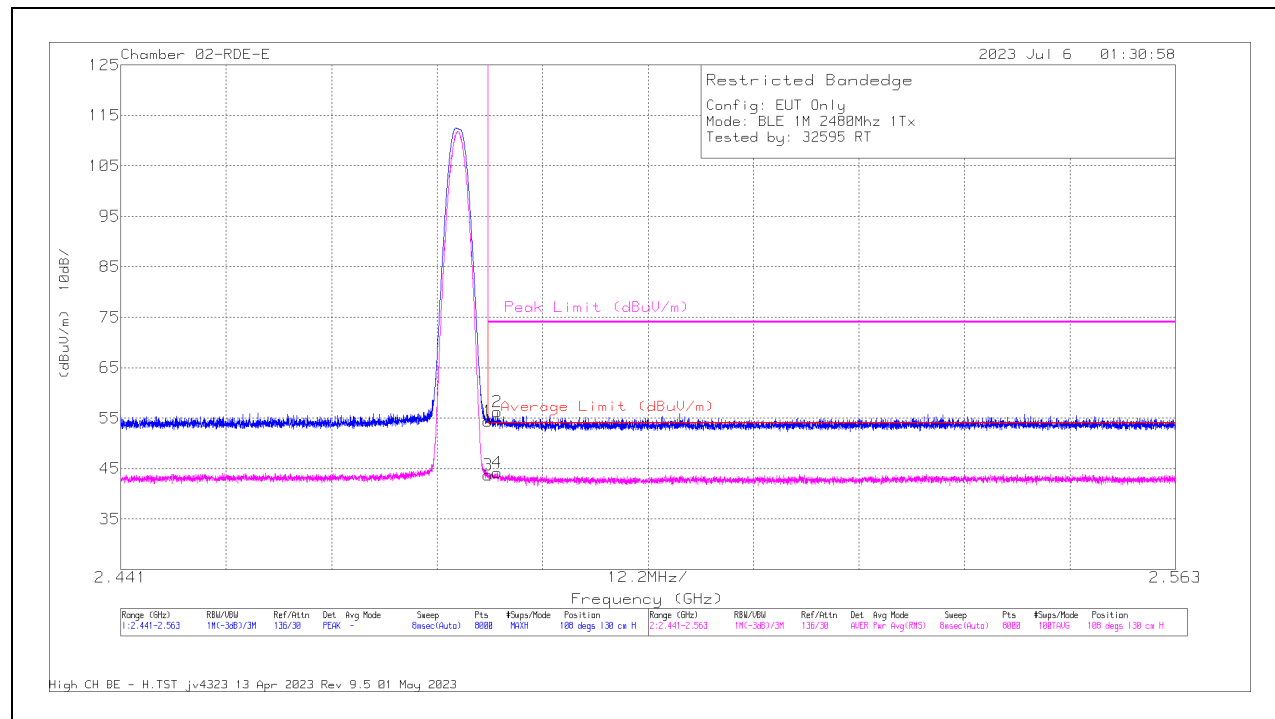
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



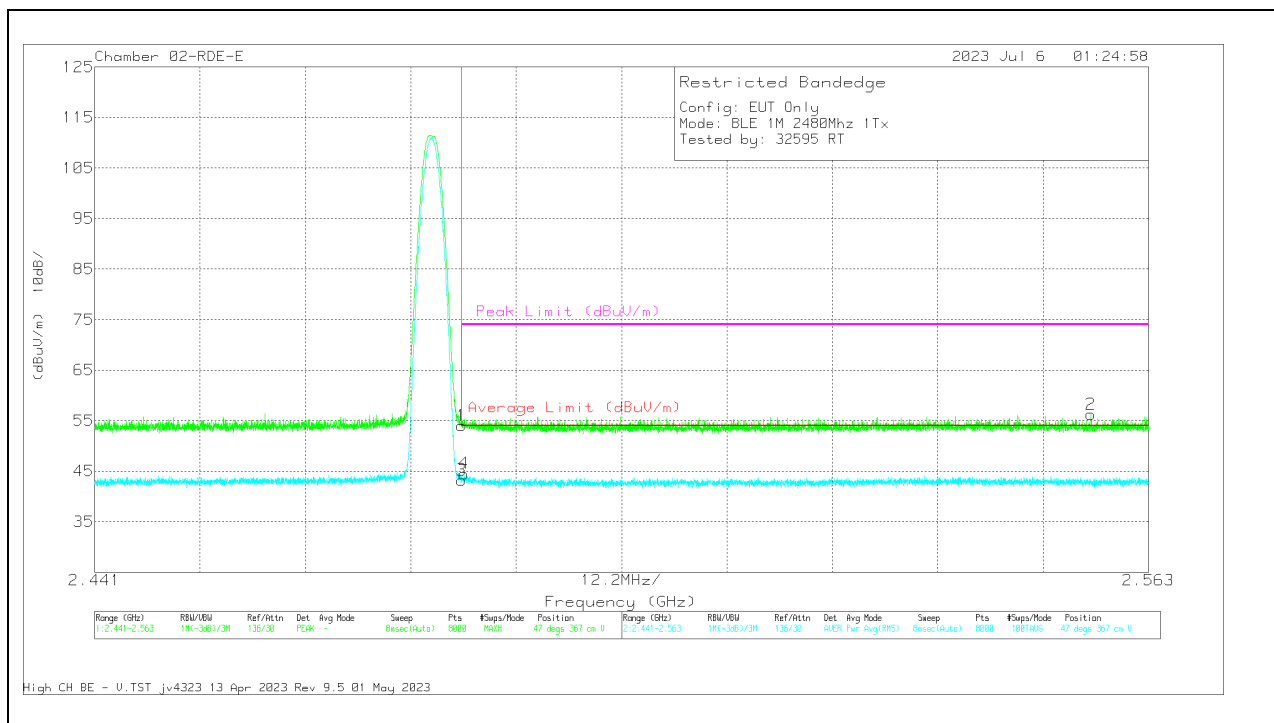
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.21	Pk	32.3	-39.16	54.35	-	-	74	-19.65	108	130	H
2	* 2.48456	63.04	Pk	32.3	-39.14	56.2	-	-	74	-17.8	108	130	H
3	* 2.4835	50.57	RMS	32.3	-39.16	43.71	54	-10.29	-	-	108	130	H
4	* 2.484529	51.06	RMS	32.3	-39.14	44.22	54	-9.78	-	-	108	130	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.92	Pk	32.3	-39.16	54.06	-	-	74	-19.94	47	367	V
2	2.55632	62.86	Pk	32.4	-39.03	56.23	-	-	74	-17.77	47	367	V
3	* 2.4835	50.13	RMS	32.3	-39.16	43.27	54	-10.73	-	-	47	367	V
4	* 2.483782	51.37	RMS	32.3	-39.15	44.52	54	-9.48	-	-	47	367	V

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

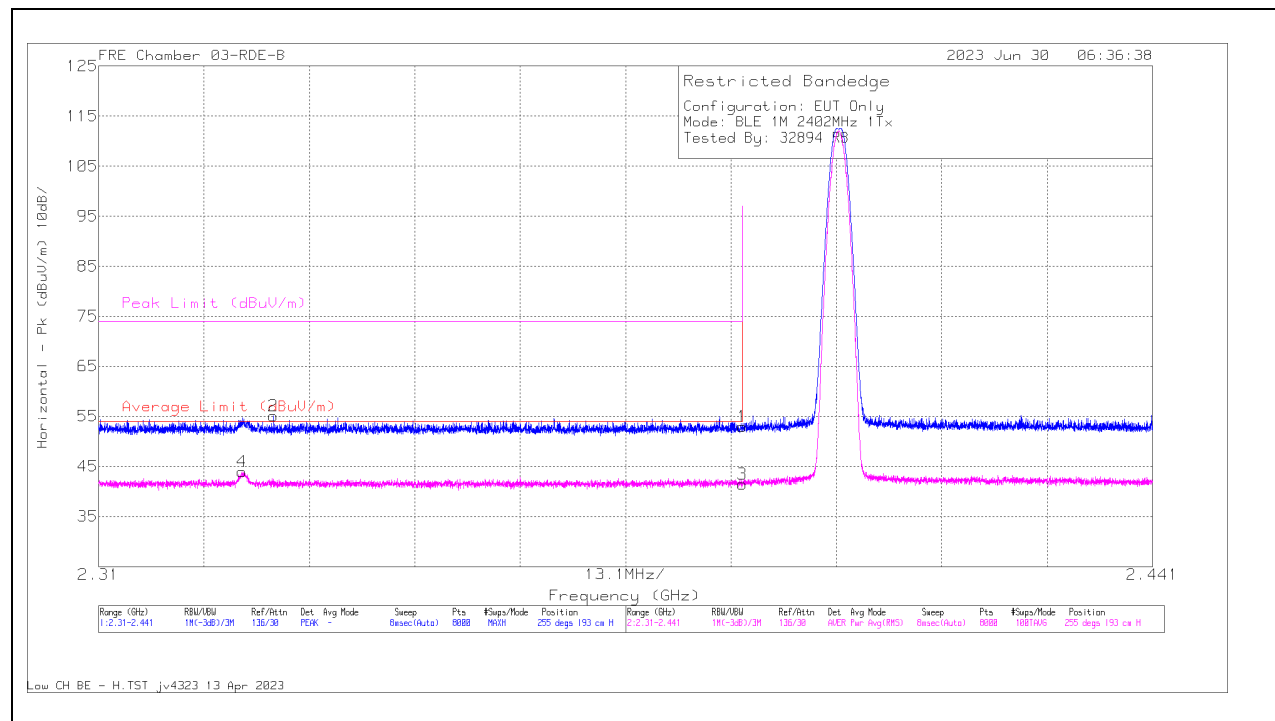
Pk - Peak detector

RMS - RMS detection

ANT 3

BANEDGE (LOW CHANNEL)

HORIZONTAL RESULT



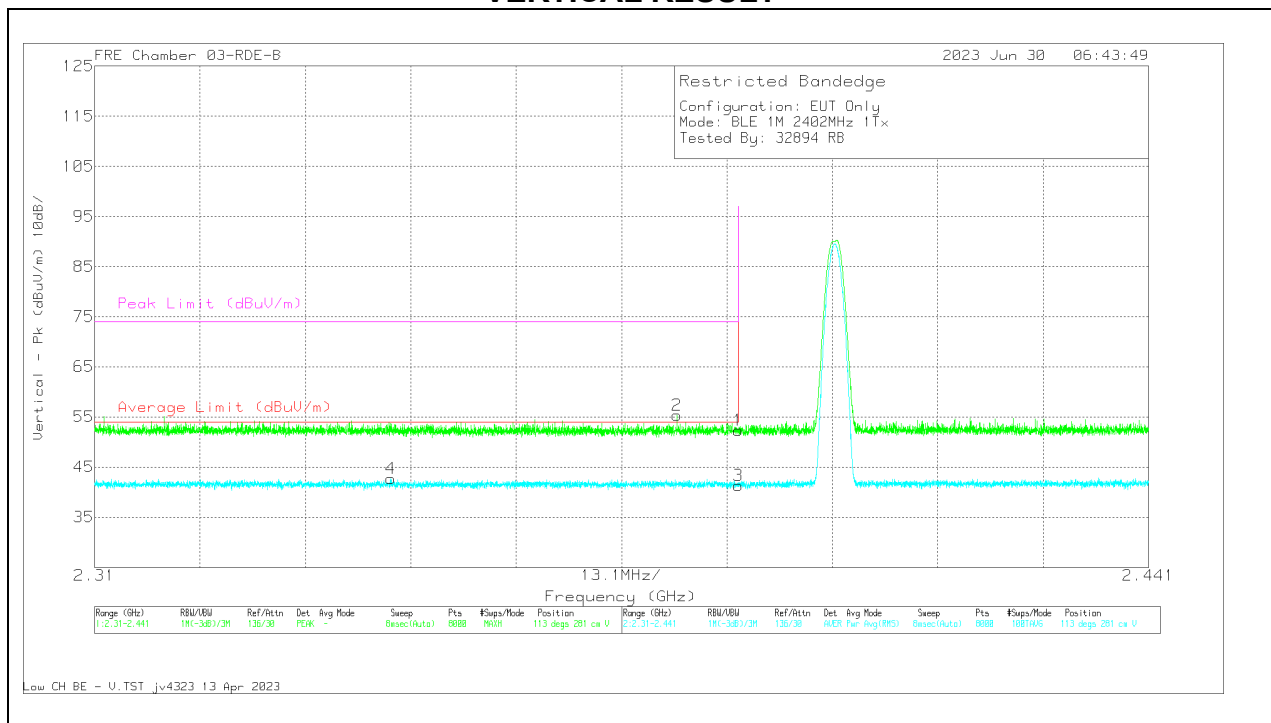
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.99	Pk	32.2	-41.2	52.99	-	-	74	-21.01	255	193	H
2	* 2.3317	64.3	Pk	32.1	-41.27	55.13	-	-	74	-18.87	255	193	H
3	* 2.39	50.47	RMS	32.2	-41.2	41.47	54	-12.53	-	-	255	193	H
4	* 2.327785	53.05	RMS	32.1	-41.2	43.95	54	-10.05	-	-	255	193	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (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	61.4	PK	32.2	-41.2	52.4	-	-	74	-21.6	113	281	V
2	* 2.392396	64.5	PK	32.1	-41.26	55.34	-	-	74	-18.66	113	281	V
3	* 2.39	60.35	RMS	32.2	-41.2	41.35	54	-12.65	-	-	113	281	V
4	* 2.346783	51.8	RMS	32.1	-41.2	42.7	54	-11.3	-	-	113	281	V

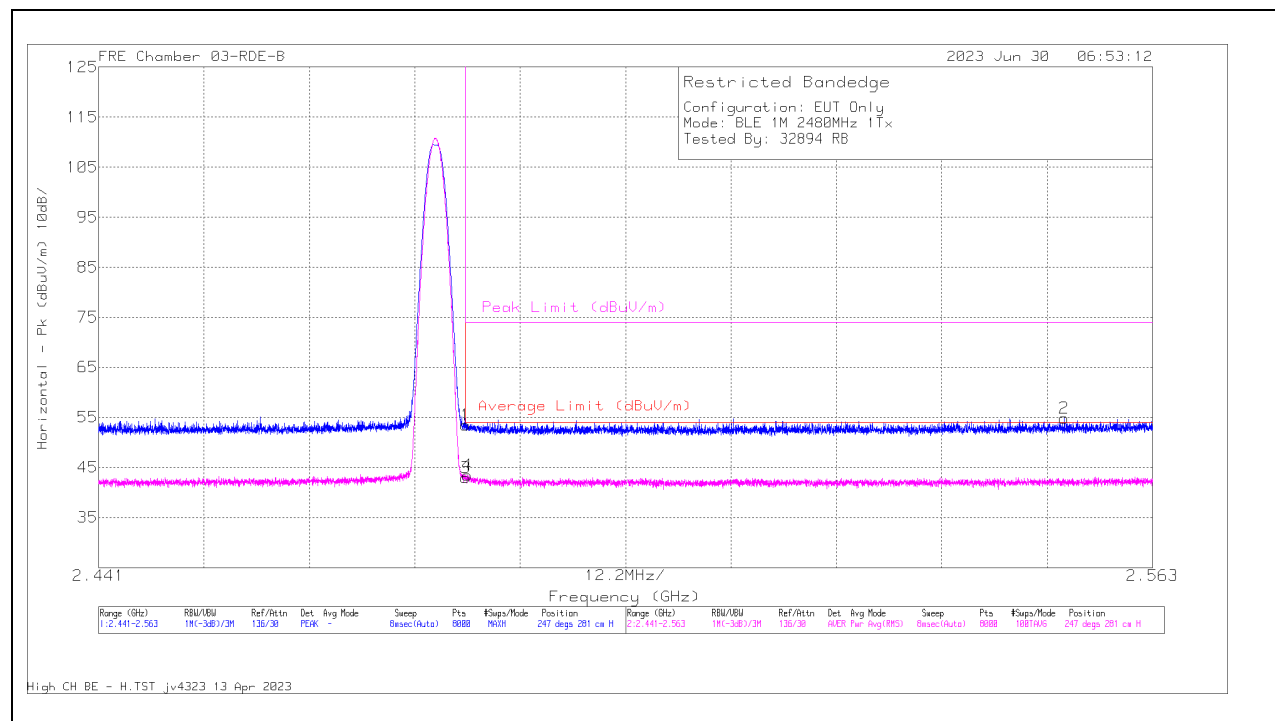
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



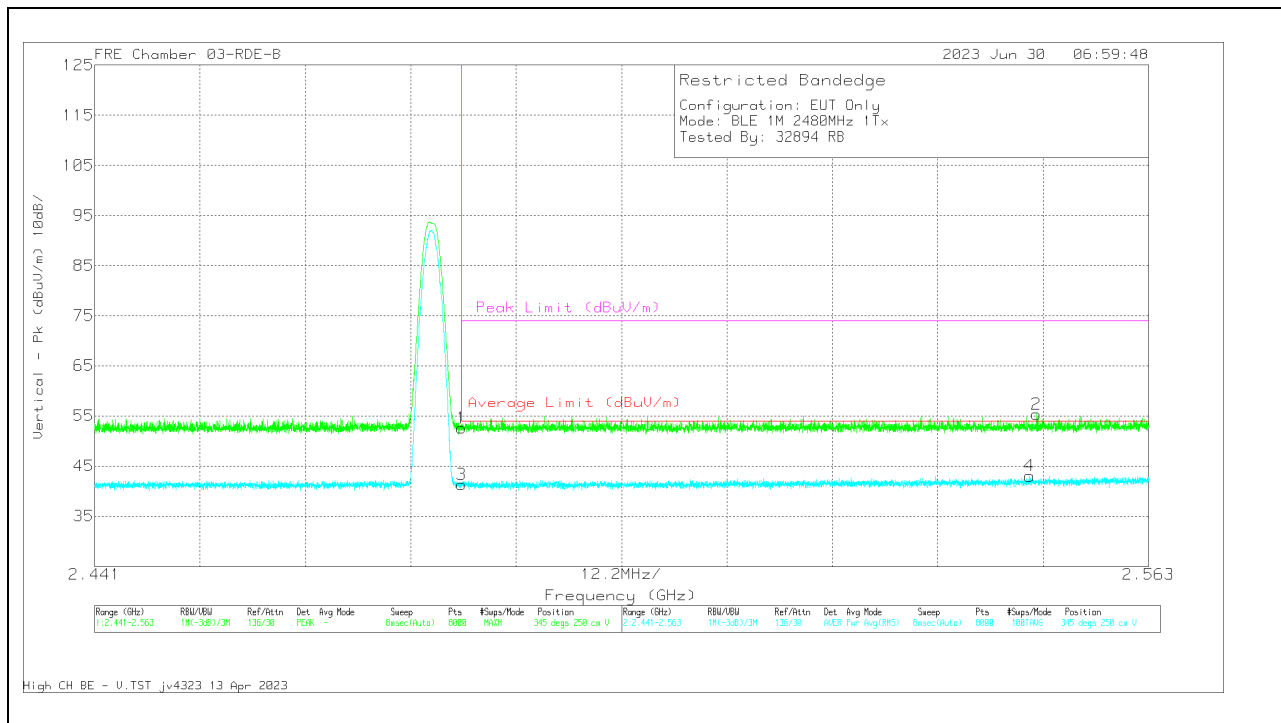
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.42	Pk	32.2	-41.15	53.47	-	-	74	-20.53	247	281	H
2	2.552797	63.52	Pk	32.3	-40.98	54.84	-	-	74	-19.16	247	281	H
3	* 2.4835	51.96	RMS	32.2	-41.15	43.01	54	-10.99	-	-	247	281	H
4	* 2.48369	52.43	RMS	32.2	-41.13	43.5	54	-10.5	-	-	247	281	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.57	Pk	32.2	-41.15	52.62	-	-	74	-21.38	345	250	V
2	2.550021	63.99	Pk	32.3	-40.9	55.39	-	-	74	-18.61	345	250	V
3	* 2.4835	50.32	RMS	32.2	-41.15	41.37	54	-12.63	-	-	345	250	V
4	2.549259	51.63	RMS	32.3	-40.9	43.03	54	-10.97	-	-	345	250	V

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

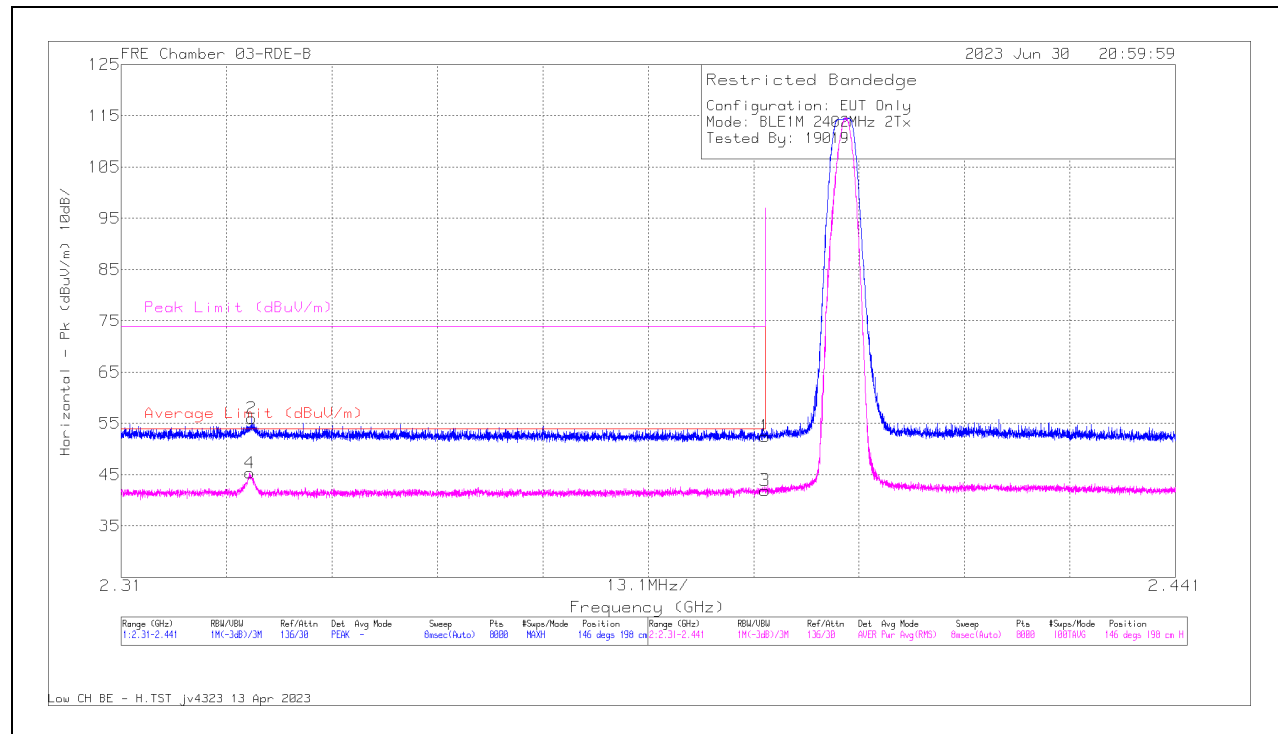
Pk - Peak detector

RMS - RMS detection

10.2.2. HIGH POWER BLE TXBF (1Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



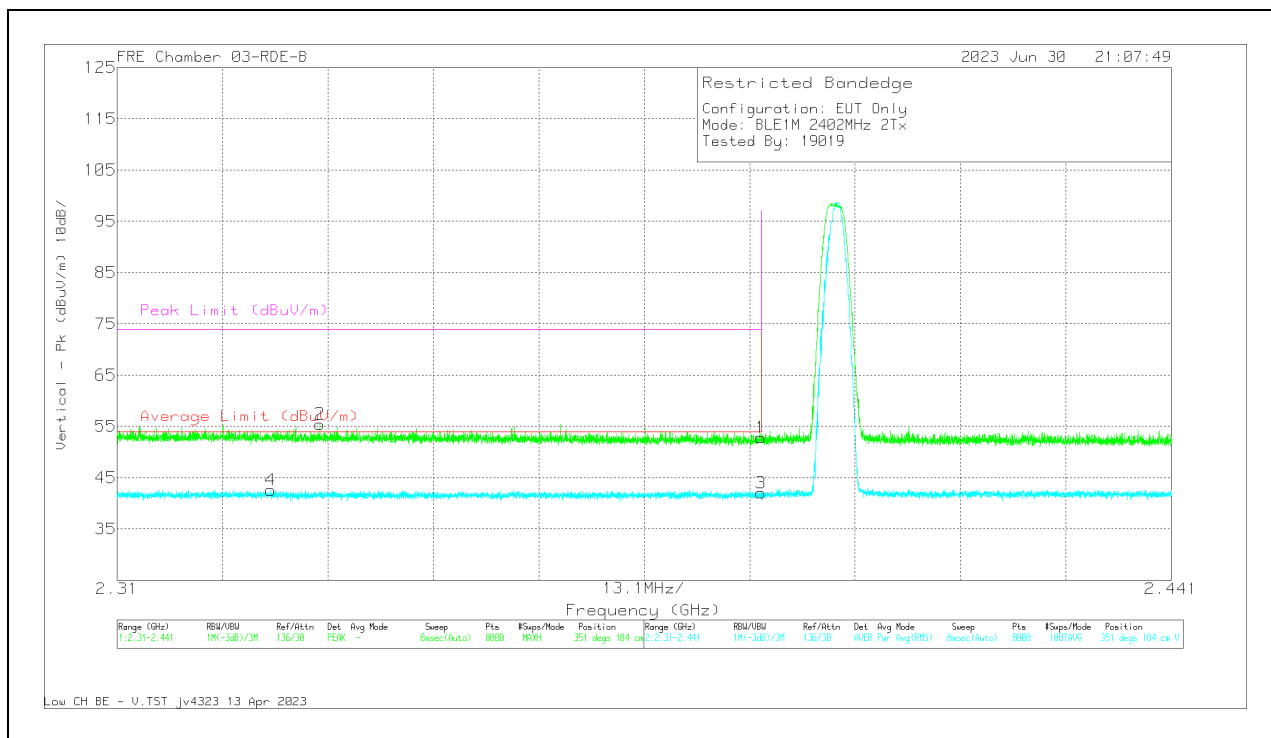
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1	* 2.39	61.52	Pk	32.2	-41.2	52.52	-	-	74	-21.48	146	198	H
2	* 2.326213	65.08	Pk	32.1	-41.2	55.98	-	-	74	-18.02	146	198	H
3	* 2.39	50.92	RMS	32.2	-41.2	41.92	54	-12.08	-	-	146	198	H
4	* 2.325968	54.43	RMS	32.1	-41.2	45.33	54	-8.67	-	-	146	198	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

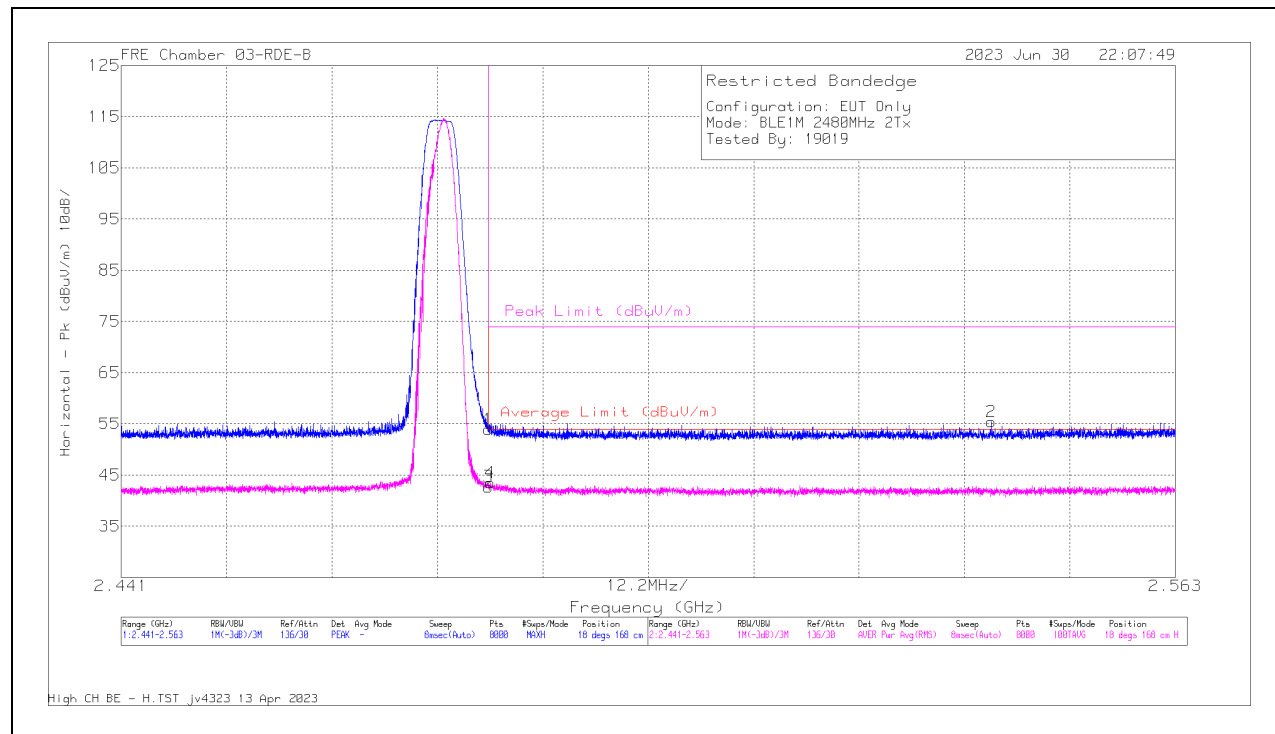


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.8	Pk	32.2	-41.2	52.8	-	-	74	-21.2	351	184	V
2	* 2.335204	64.52	Pk	32.1	-41.2	55.42	-	-	74	-18.58	351	184	V
3	* 2.39	51	RMS	32.2	-41.2	42	54	-12	-	-	351	184	V
4	* 2.329063	51.7	RMS	32.1	-41.2	42.6	54	-11.4	-	-	351	184	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



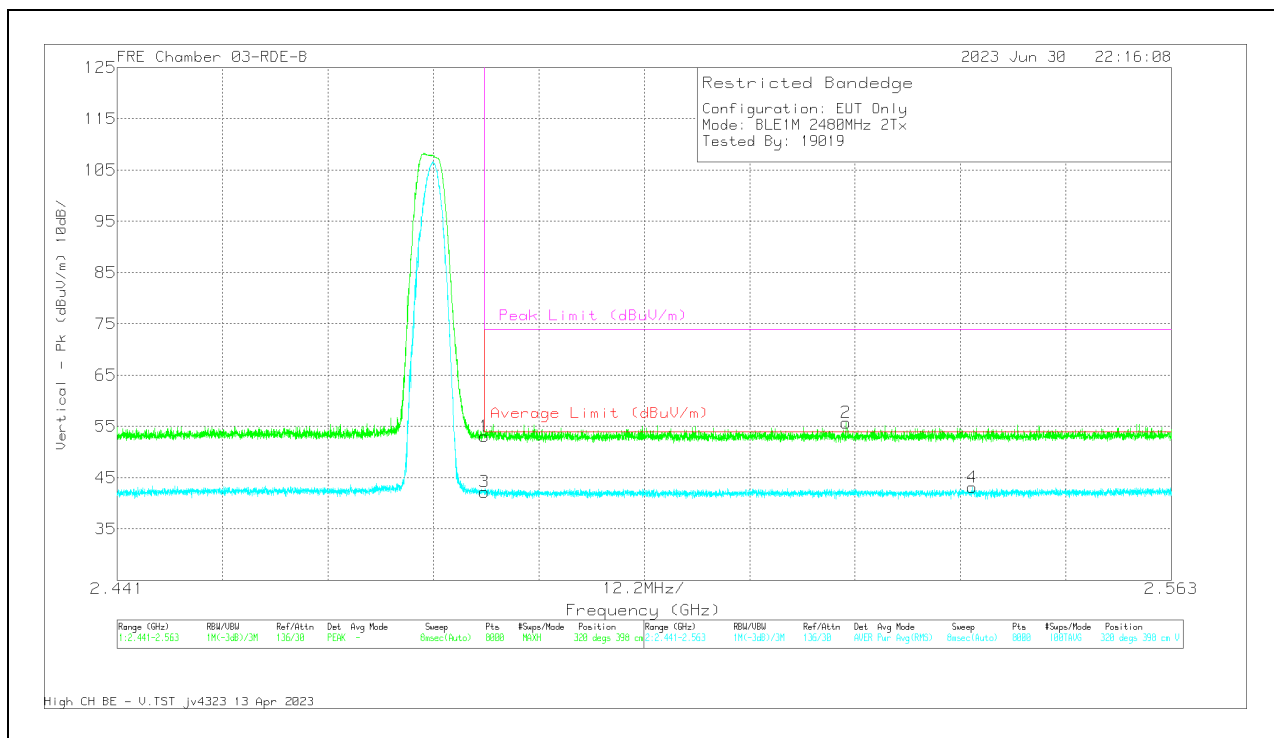
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.88	Pk	32.2	-41.15	53.93	-	-	74	-20.07	18	168	H
3	* 2.4835	51.62	RMS	32.2	-41.15	42.67	54	-11.33	-	-	18	168	H
4	* 2.483736	52.42	RMS	32.2	-41.13	43.49	54	-10.51	-	-	18	168	H
2	2.541678	64.09	Pk	32.3	-41	55.39	-	-	74	-18.61	18	168	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.01	Pk	32.2	-41.15	53.06	-	-	74	-20.94	320	398	V
2	2.525328	64.42	Pk	32.3	-41	55.72	-	-	74	-18.28	320	398	V
3	* 2.4835	51.18	RMS	32.2	-41.15	42.23	54	-11.77	-	-	320	398	V
4	2.539955	51.73	RMS	32.3	-40.9	43.13	54	-10.87	-	-	320	398	V

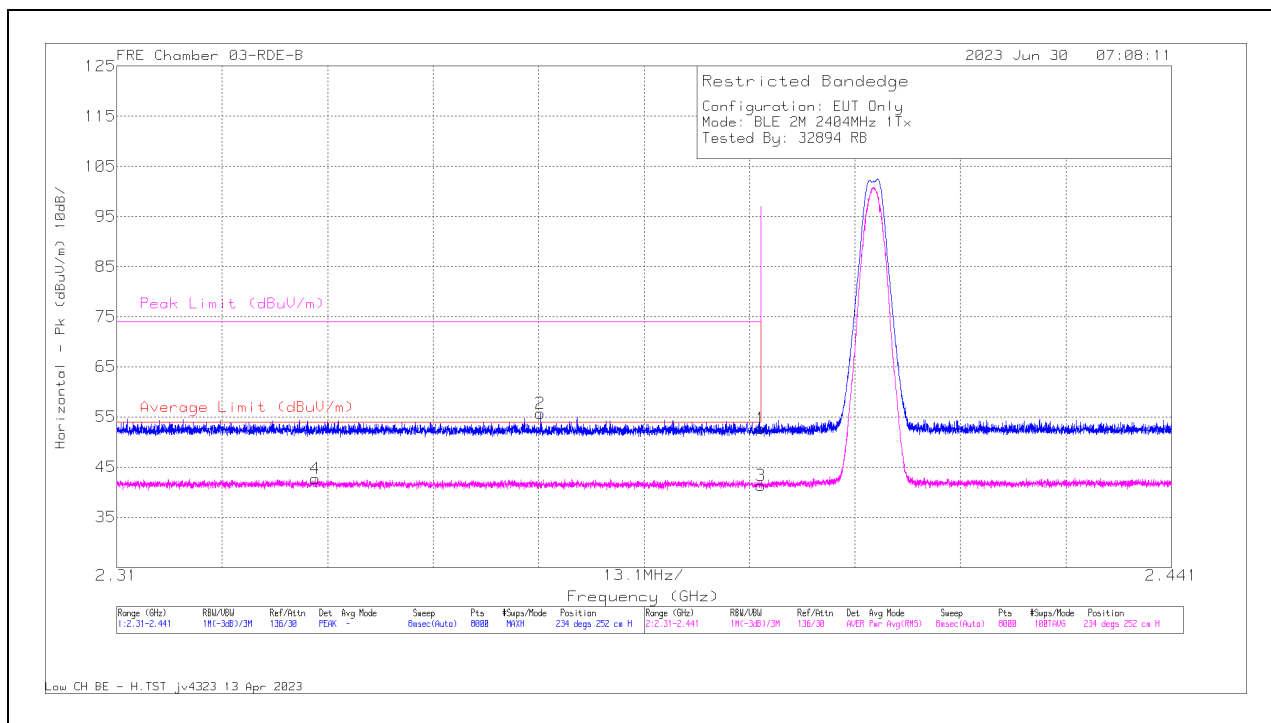
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

10.2.3. HIGH POWER BLE (2Mbps)

ANT 4

BANDEDGE (LOW CHANNEL)

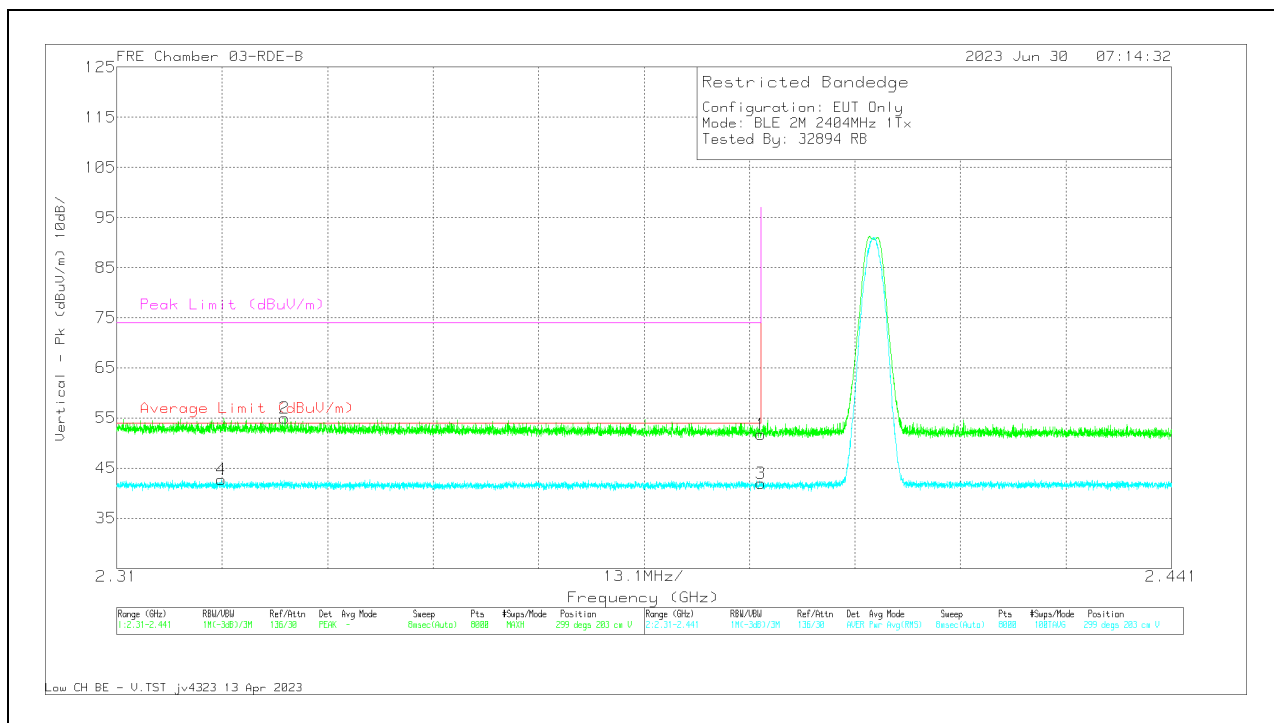
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (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	61.68	Pk	32.2	-41.2	52.68	-	-	74	-21.32	234	252	H
2	* 2.362619	64.8	Pk	32.1	-41.2	55.7	-	-	74	-18.3	234	252	H
3	* 2.39	50.3	RMS	32.2	-41.2	41.3	54	-12.7	-	-	234	252	H
4	* 2.334631	51.8	RMS	32.1	-41.24	42.66	54	-11.34	-	-	234	252	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (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	60.66	Pk	32.2	-41.2	51.66	-	-	74	-22.34	299	203	V
2	* 2.330881	64.13	Pk	32.1	-41.2	55.03	-	-	74	-18.97	299	203	V
3	* 2.39	50.95	RMS	32.2	-41.2	41.95	54	-12.05	-	-	299	203	V
4	* 2.322971	51.73	RMS	32.1	-41.1	42.73	54	-11.27	-	-	299	203	V

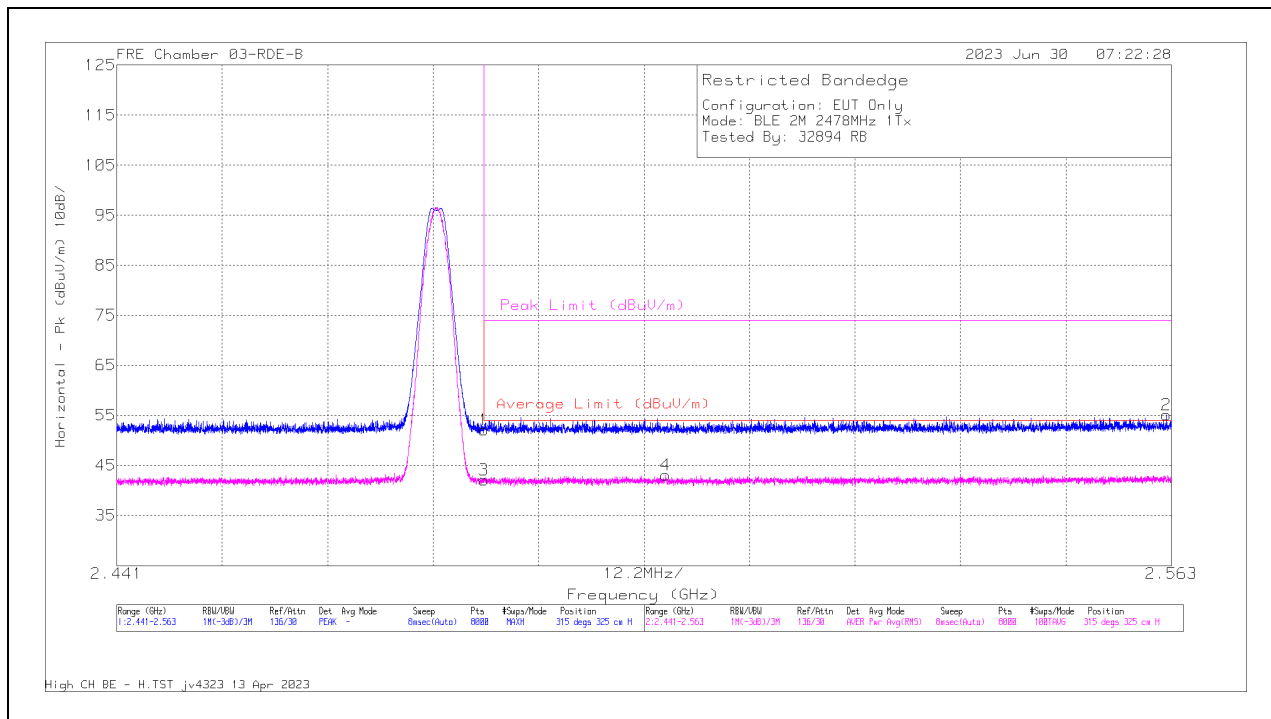
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



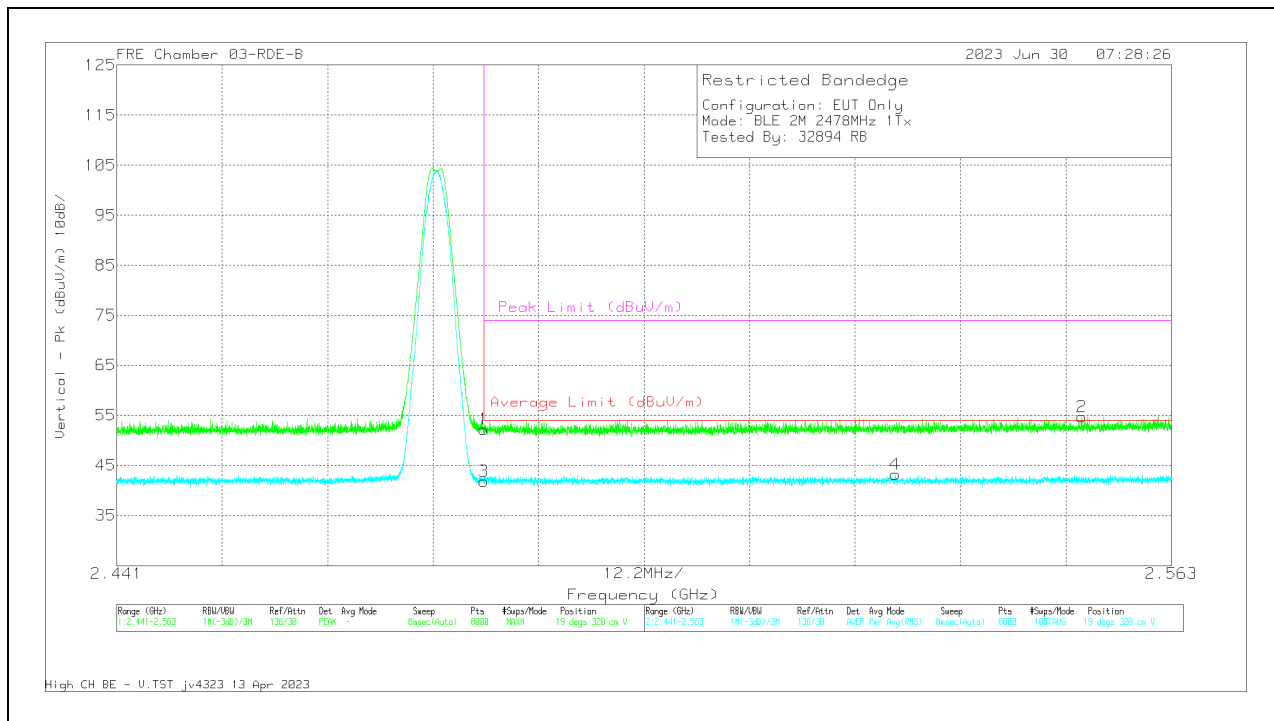
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.06	Pk	32.2	-41.15	52.11	-	-	74	-21.89	315	325	H
2	2.562436	63.57	Pk	32.3	-40.8	55.07	-	-	74	-18.93	315	325	H
3	* 2.4835	51.06	RMS	32.2	-41.15	42.11	54	-11.89	-	-	315	325	H
4	2.504509	51.91	RMS	32.2	-41.05	43.06	54	-10.94	-	-	315	325	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



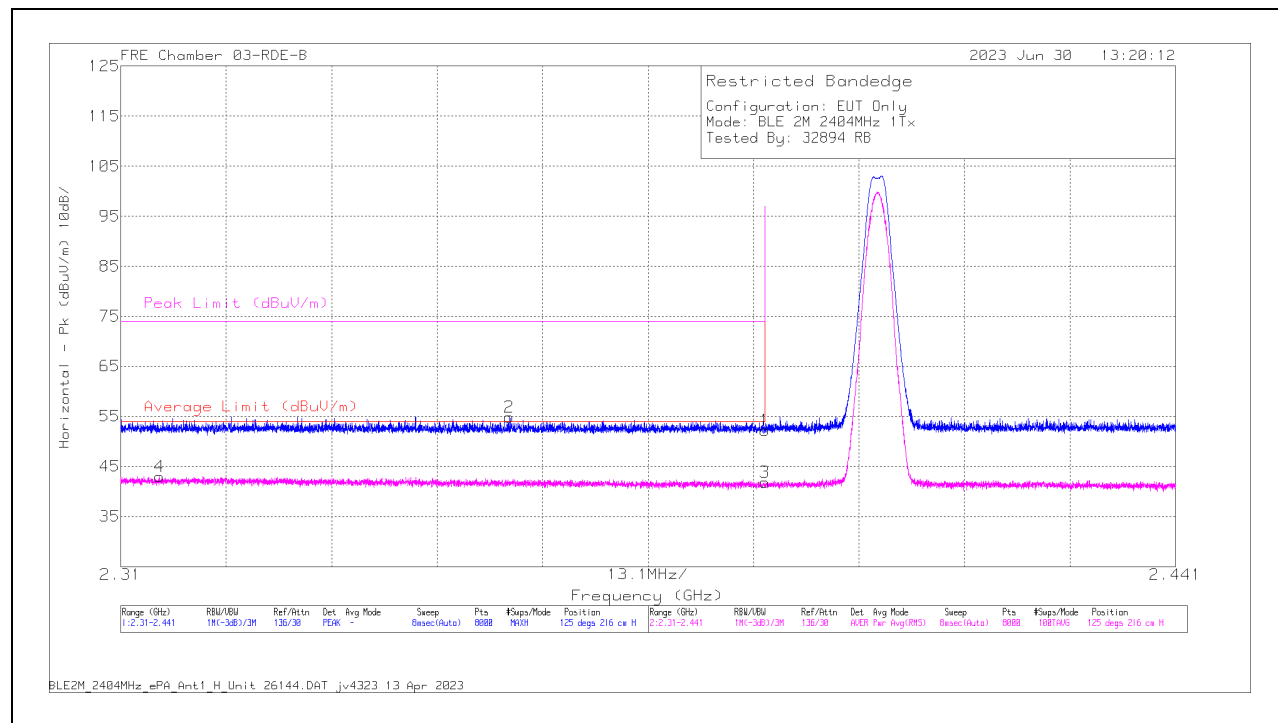
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.12	Pk	32.2	-41.15	52.17	-	-	74	-21.83	19	320	V
2	2.552599	63.42	Pk	32.3	-40.96	54.76	-	-	74	-19.24	19	320	V
4	2.531063	51.87	RMS	32.3	-41.01	43.16	54	-10.84	-	-	19	320	V
3	* 2.4835	50.76	RMS	32.2	-41.15	41.81	54	-12.19	-	-	19	320	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



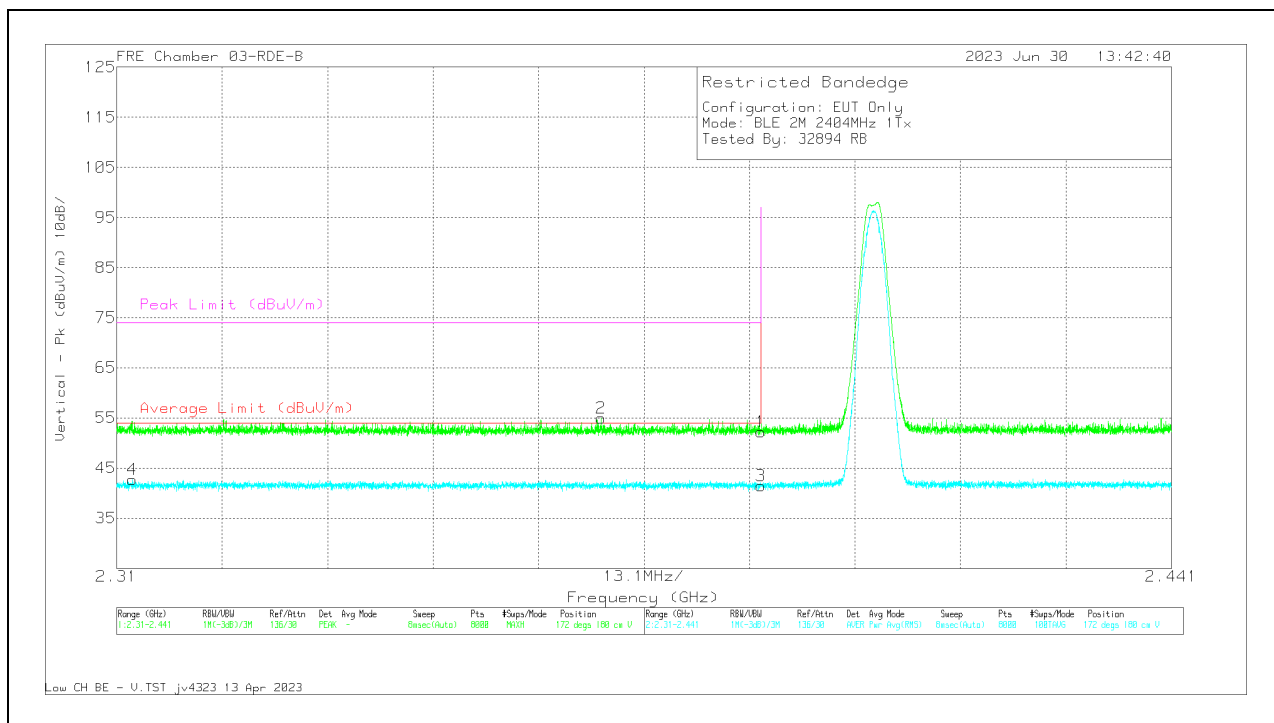
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.17	Pk	32.2	-41.2	52.17	-	-	74	-21.83	125	216	H
2	* 2.358247	63.94	Pk	32.1	-41.18	54.86	-	-	74	-19.14	125	216	H
3	* 2.39	50.88	RMS	32.2	-41.2	41.88	54	-12.12	-	-	125	216	H
4	* 2.314831	52.14	RMS	32.1	-41.22	43.02	54	-10.98	-	-	125	216	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (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	61.22	Pk	32.2	-41.2	52.22	-	-	74	-21.78	172	180	V
2	* 2.370153	64.11	Pk	32.1	-41.2	55.01	-	-	74	-18.99	172	180	V
3	* 2.39	50.51	RMS	32.2	-41.2	41.51	54	-12.49	-	-	172	180	V
4	* 2.311932	51.87	RMS	32	-41.19	42.68	54	-11.32	-	-	172	180	V

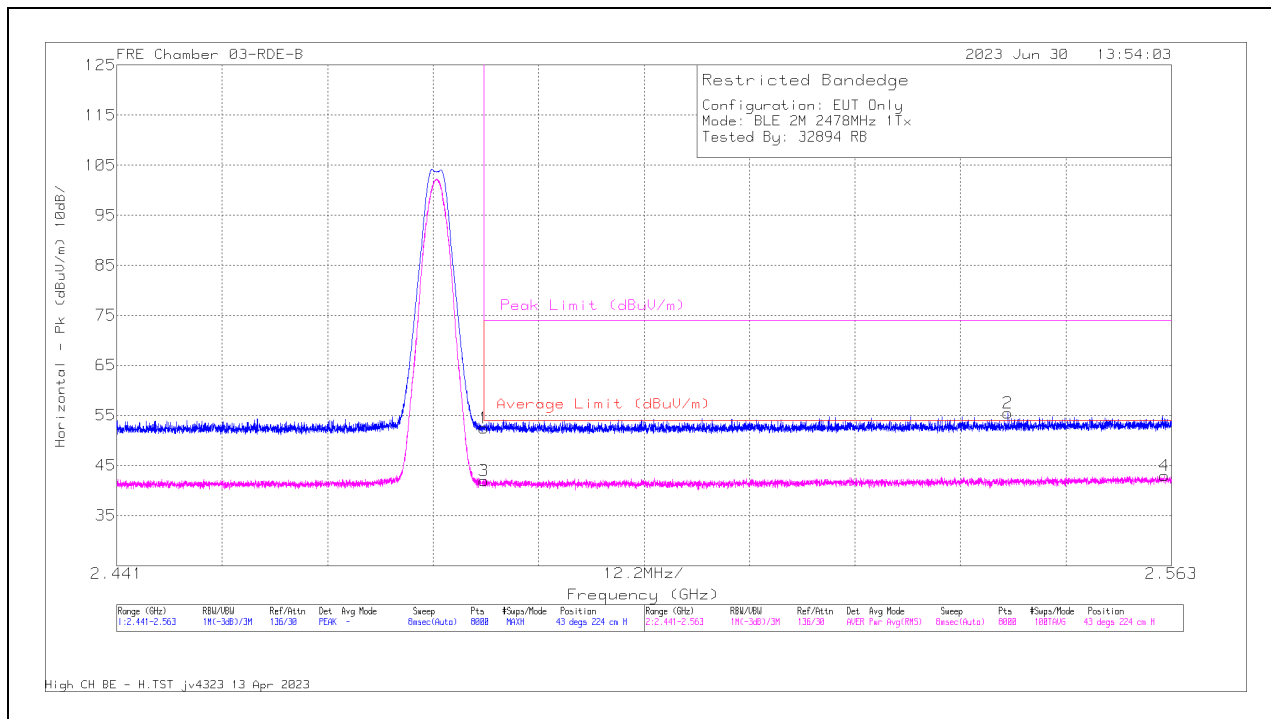
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



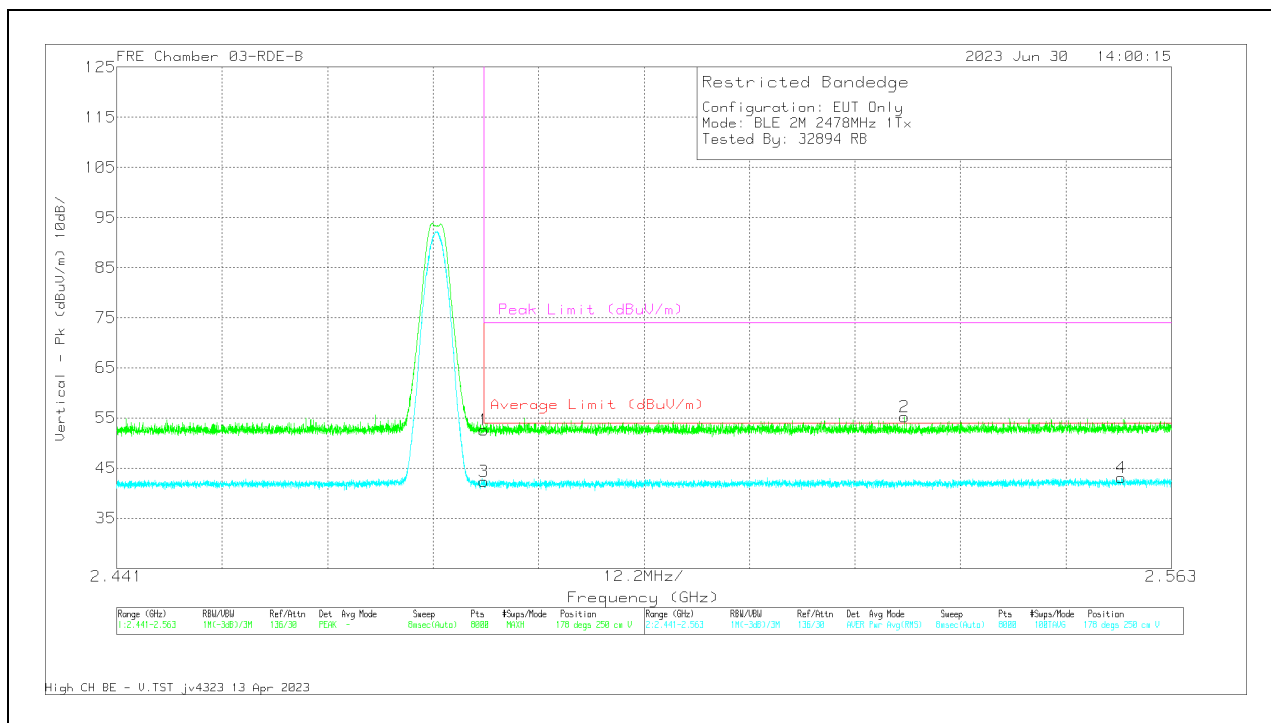
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.41	Pk	32.2	-41.15	52.46	-	-	74	-21.54	43	224	H
2	2.544058	64.18	Pk	32.3	-40.99	55.49	-	-	74	-18.51	43	224	H
3	* 2.4835	50.88	RMS	32.2	-41.15	41.93	54	-12.07	-	-	43	224	H
4	2.562177	51.47	RMS	32.3	-40.8	42.97	54	-11.03	-	-	43	224	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.54	Pk	32.2	-41.15	52.59	-	-	74	-21.41	178	250	V
2	2.532131	64.03	Pk	32.3	-41.09	55.24	-	-	74	-18.76	178	250	V
3	* 2.4835	51.25	RMS	32.2	-41.15	42.3	54	-11.7	-	-	178	250	V
4	2.55719	51.66	RMS	32.3	-40.9	43.06	54	-10.94	-	-	178	250	V

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

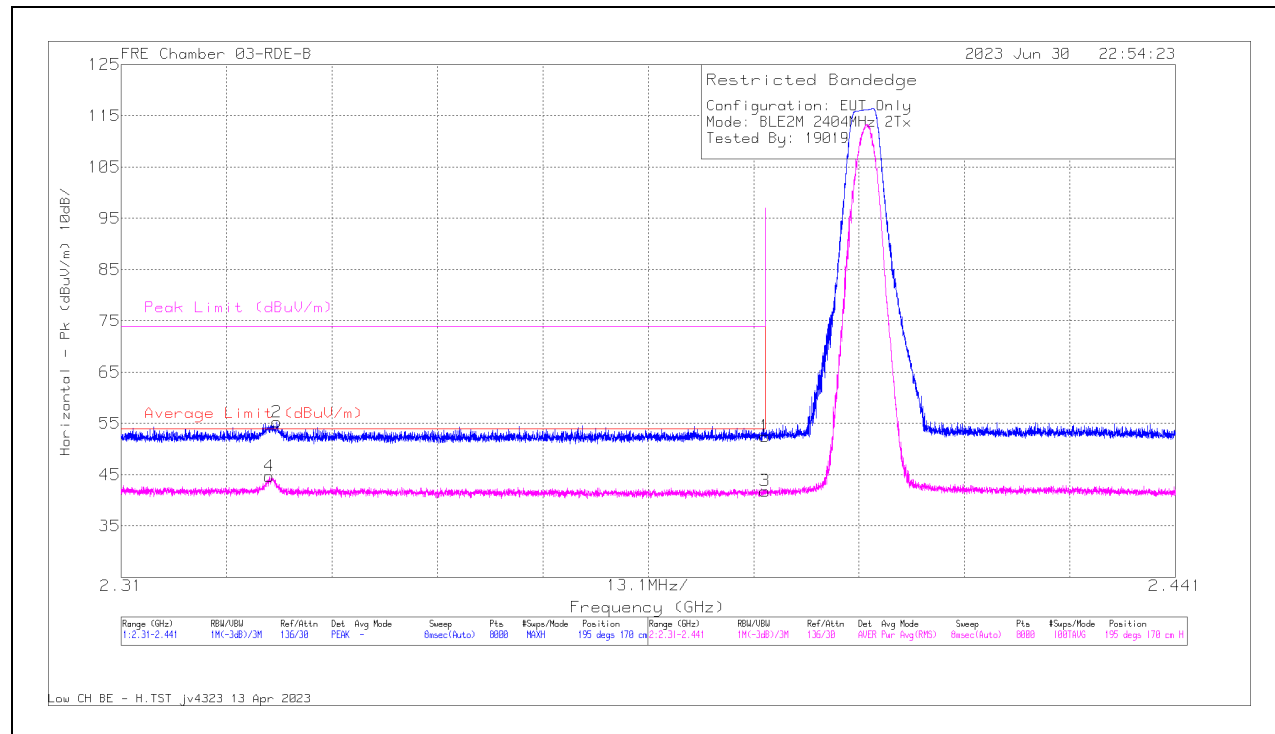
Pk - Peak detector

RMS - RMS detection

10.2.4. HIGH POWER BLE TXBF (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



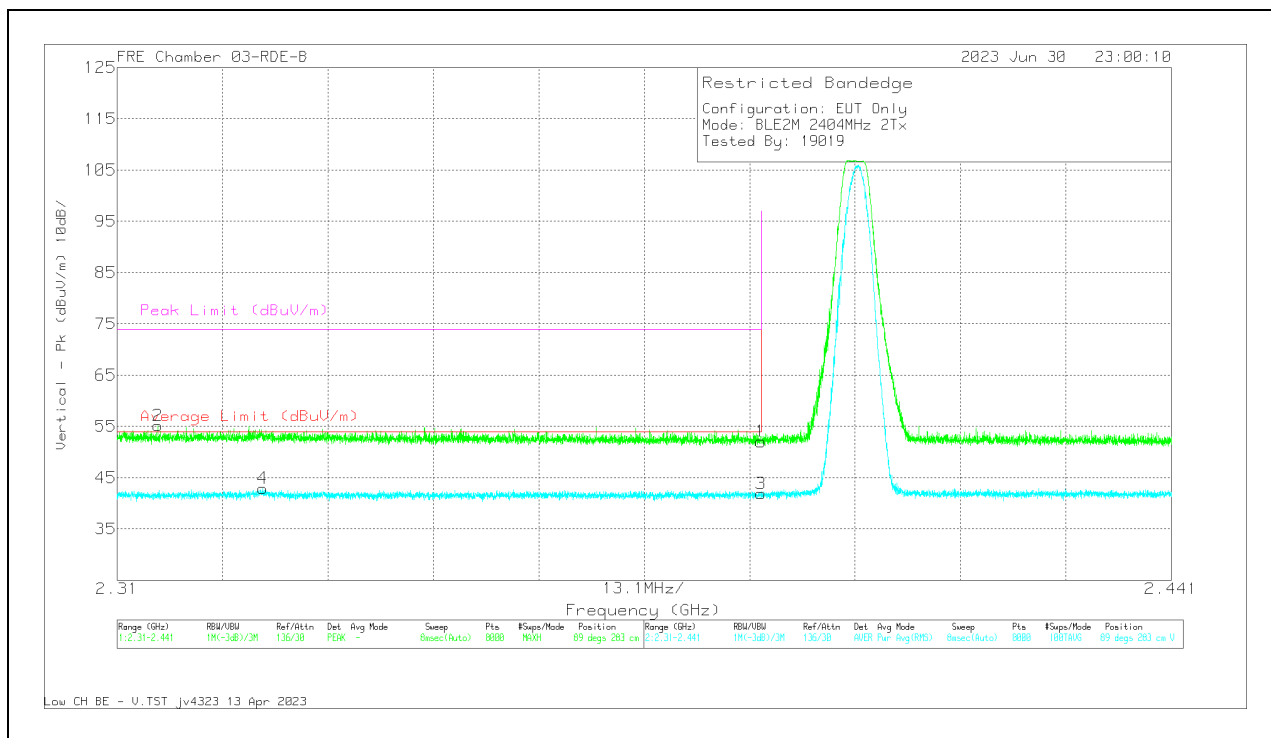
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.5	Pk	32.2	-41.2	52.5	-	-	74	-21.5	195	170	H
2	* 2.329358	64.36	Pk	32.1	-41.2	55.26	-	-	74	-18.74	195	170	H
3	* 2.39	50.83	RMS	32.2	-41.2	41.83	54	-12.17	-	-	195	170	H
4	* 2.328391	53.77	RMS	32.1	-41.2	44.67	54	-9.33	-	-	195	170	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (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	61.04	Pk	32.2	-41.2	52.04	-	-	74	-21.96	89	283	V
2	* 2.315077	64.23	Pk	32.1	-41.2	55.13	-	-	74	-18.87	89	283	V
3	* 2.39	50.89	RMS	32.2	-41.2	41.89	54	-12.11	-	-	89	283	V
4	* 2.328064	51.99	RMS	32.1	-41.2	42.89	54	-11.11	-	-	89	283	V

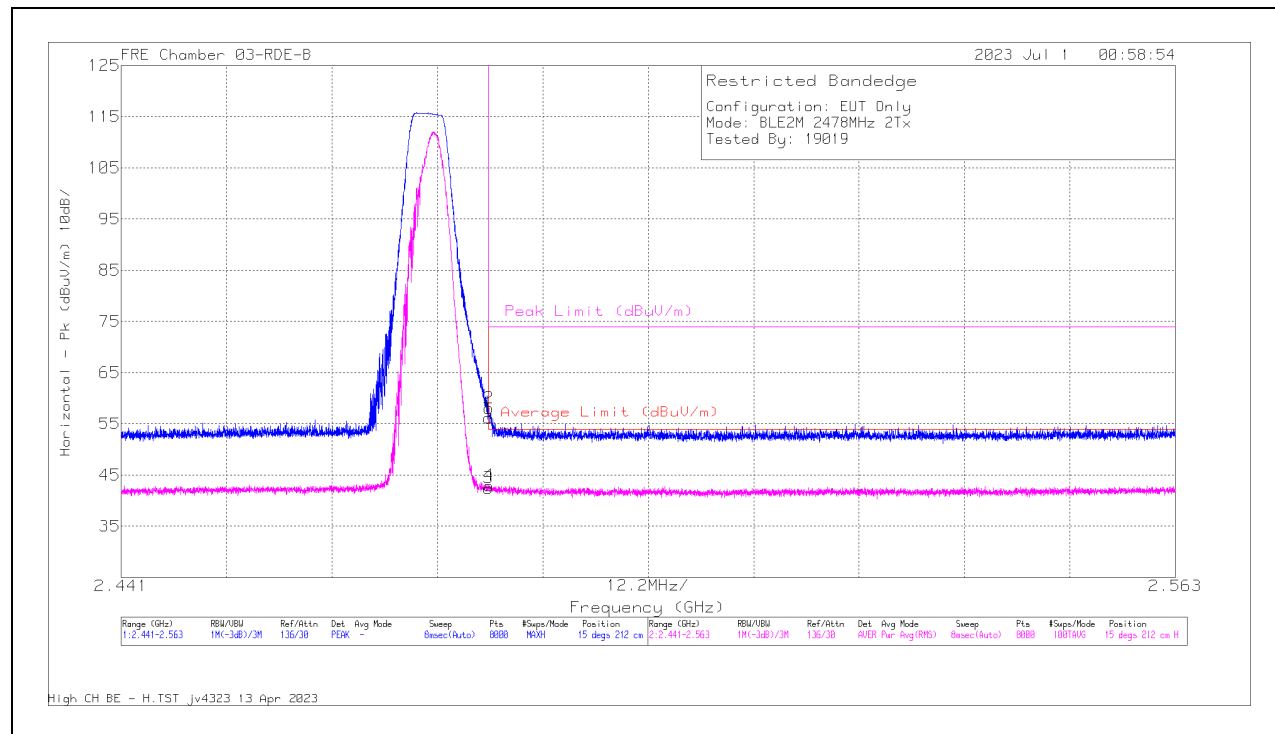
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



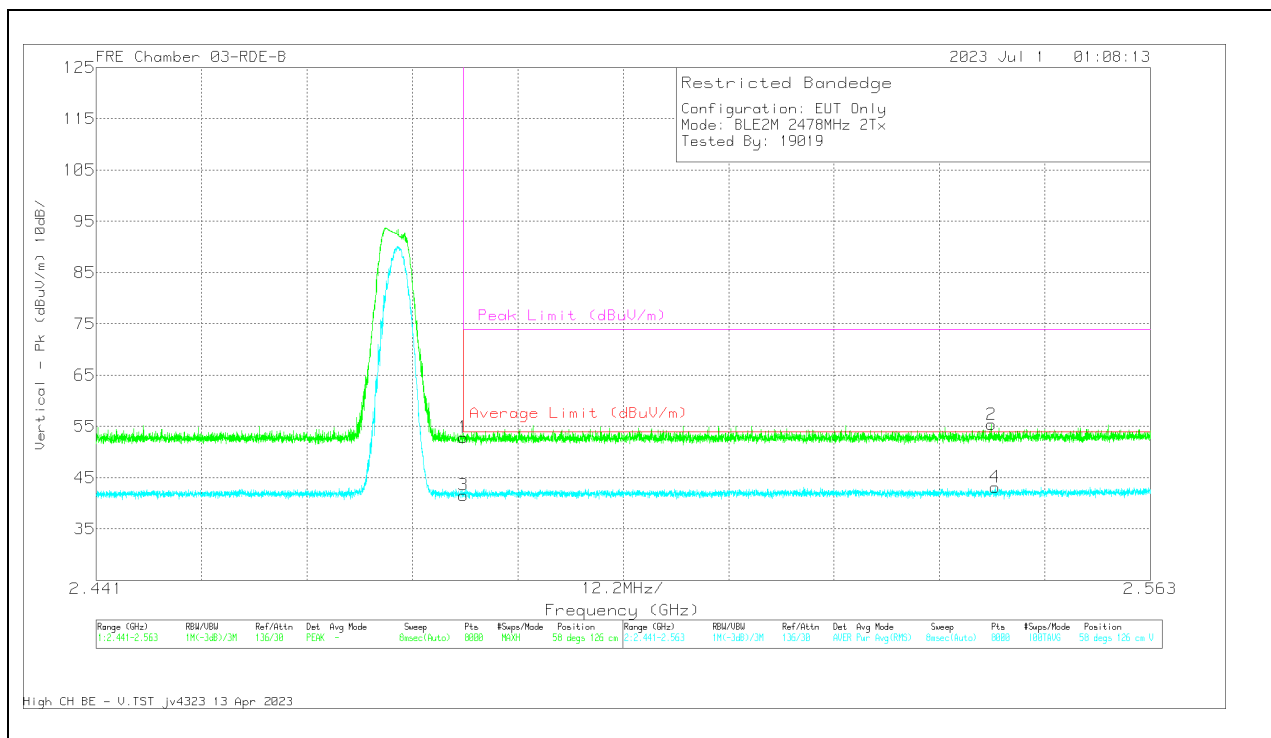
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	65.08	Pk	32.2	-41.15	56.13	-	-	74	-17.87	15	212	H
2	* 2.483584	67.01	Pk	32.2	-41.14	58.07	-	-	74	-15.93	15	212	H
3	* 2.4835	51.4	RMS	32.2	-41.15	42.45	54	-11.55	-	-	15	212	H
4	* 2.483584	51.88	RMS	32.2	-41.14	42.94	54	-11.06	-	-	15	212	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



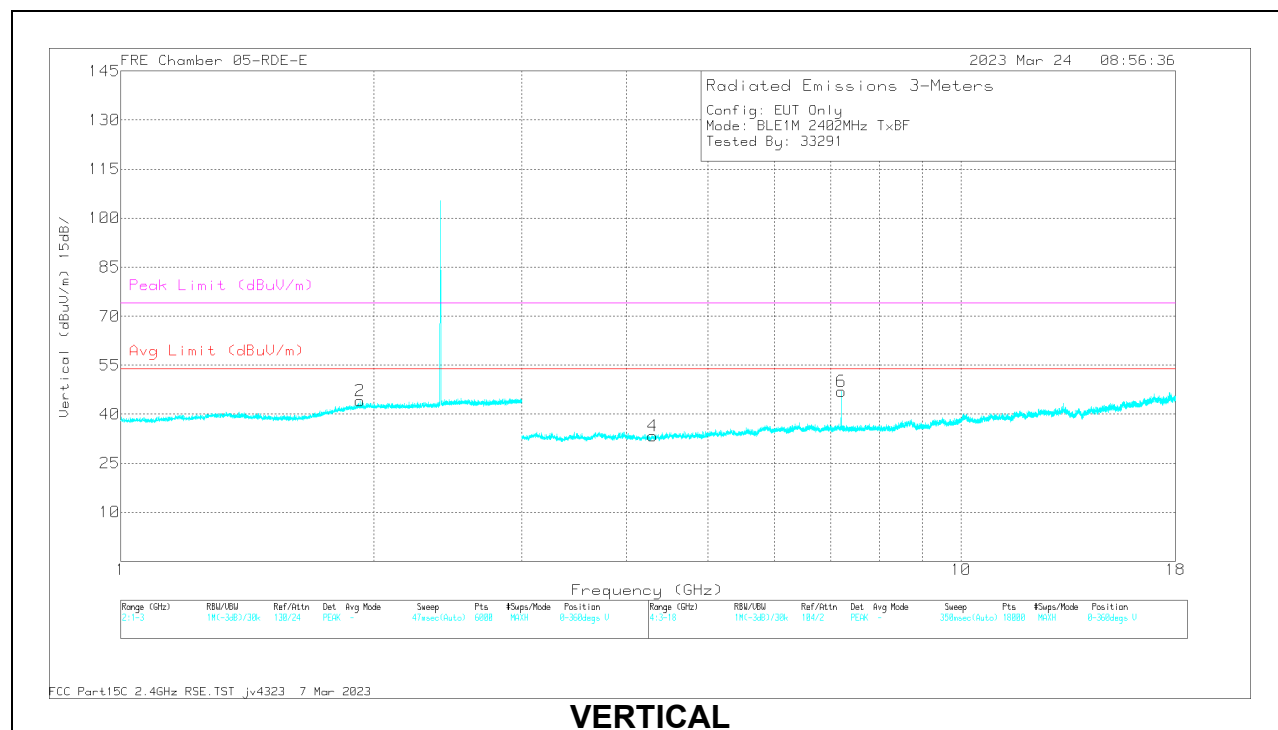
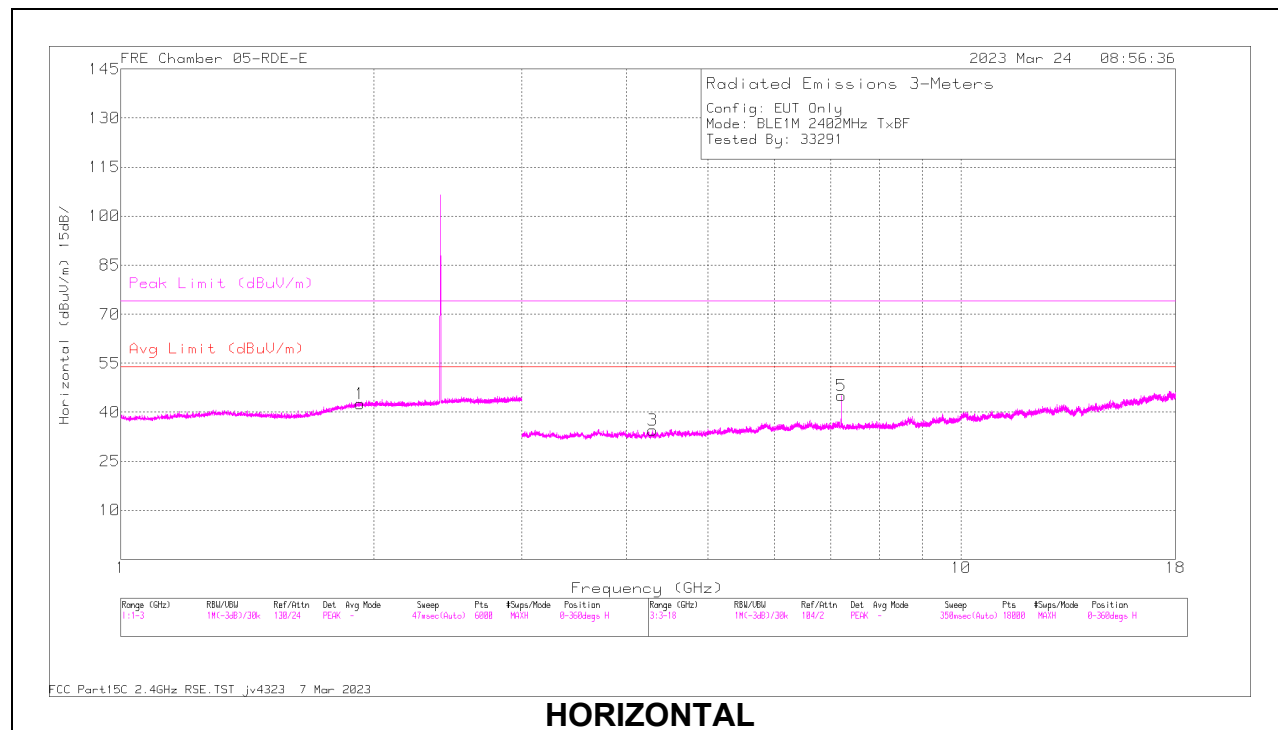
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.8	Pk	32.2	-41.15	52.85	-	-	74	-21.15	58	126	V
2	2.544592	64.02	Pk	32.3	-40.94	55.38	-	-	74	-18.62	58	126	V
3	* 2.4835	50.54	RMS	32.2	-41.15	41.59	54	-12.41	-	-	58	126	V
4	2.545049	51.77	RMS	32.3	-40.9	43.17	54	-10.83	-	-	58	126	V

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

Pk - Peak detector

RMS - RMS detection

10.2.5. HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL RESULTS



RADIATED EMISSIONS

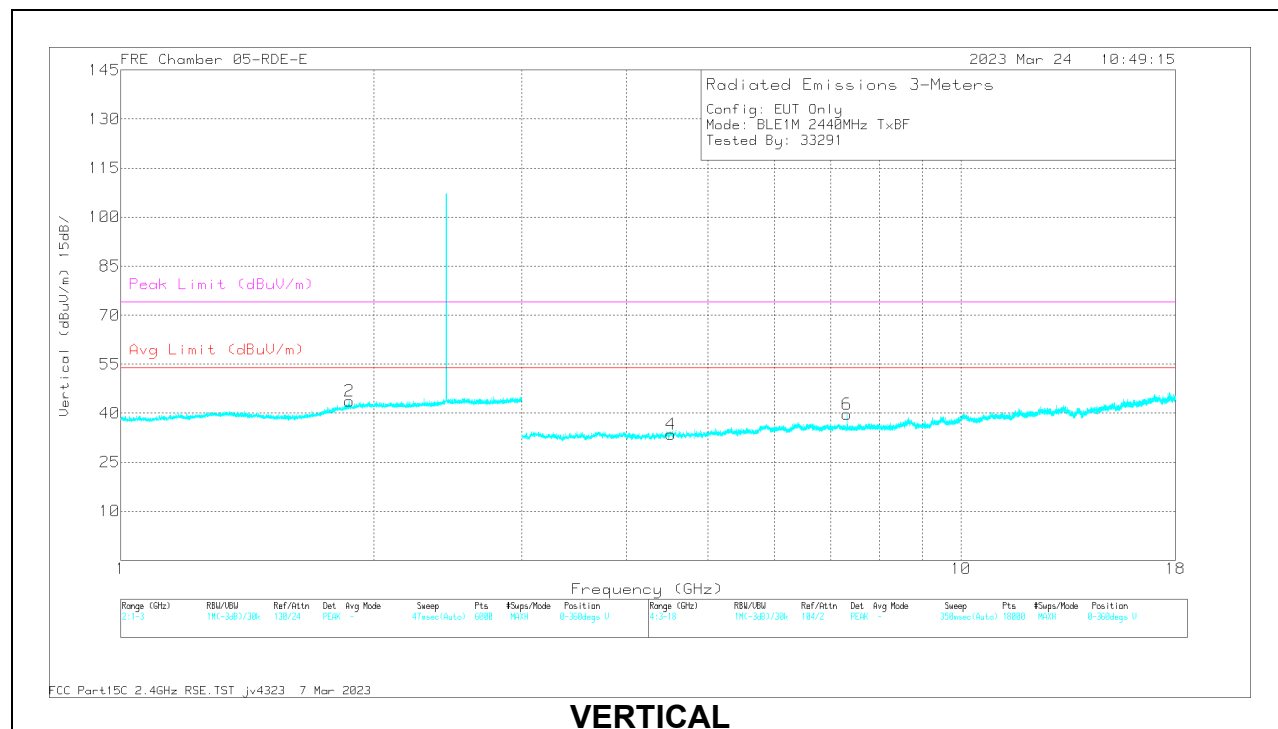
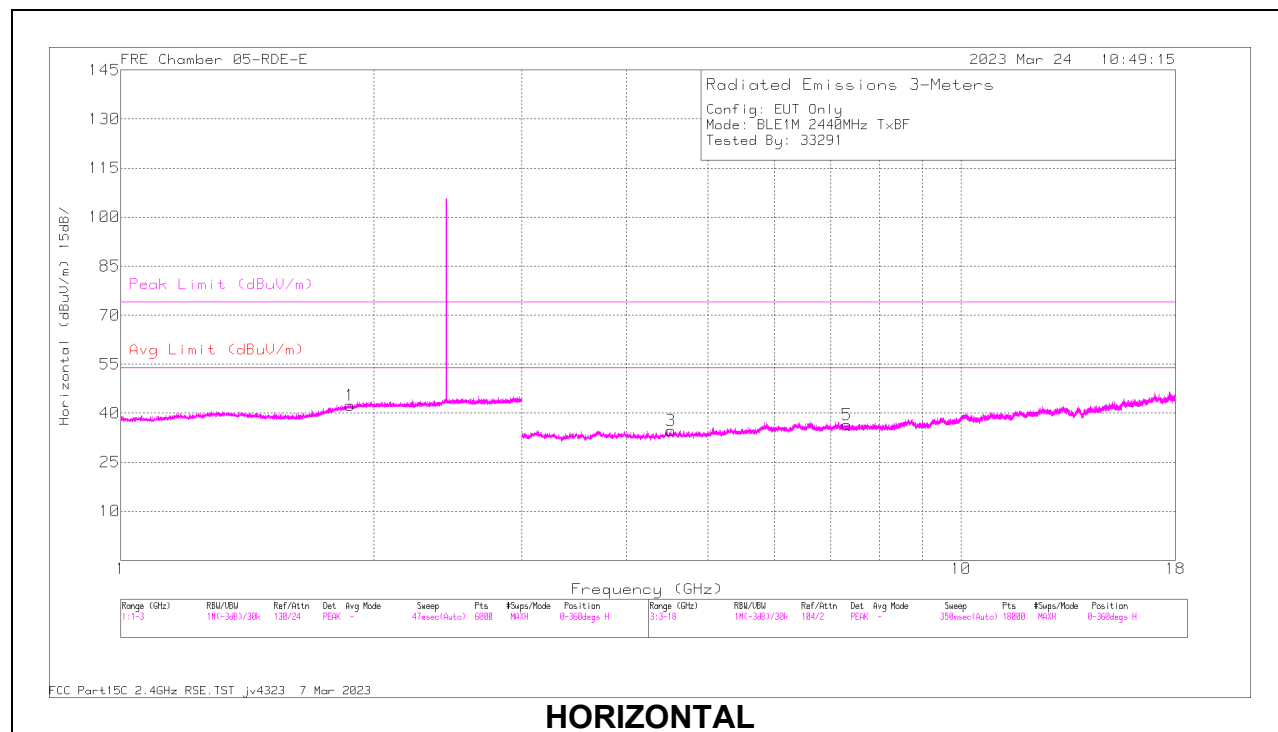
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.930077	62.21	PK2	31.5	-40.77	52.94	-	-	-	-	261	123	H
2	1.92432	61.97	PK2	31.5	-40.75	52.72	-	-	-	-	203	222	V
3	*4.295923	57.72	PK2	33.4	-47.35	43.77	-	-	74	-30.23	315	207	H
	*4.297351	45.87	MAV1	33.4	-47.36	31.91	54	-22.09	-	-	315	207	H
4	*4.298832	57.55	PK2	33.4	-47.39	43.56	-	-	74	-30.44	237	396	V
	*4.295323	45.93	MAV1	33.4	-47.36	31.97	54	-22.03	-	-	237	396	V
5	7.202414	60.32	PK2	35.7	-45.29	50.73	-	-	-	-	181	171	H
6	7.202583	63.06	PK2	35.7	-45.28	53.48	-	-	-	-	121	265	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

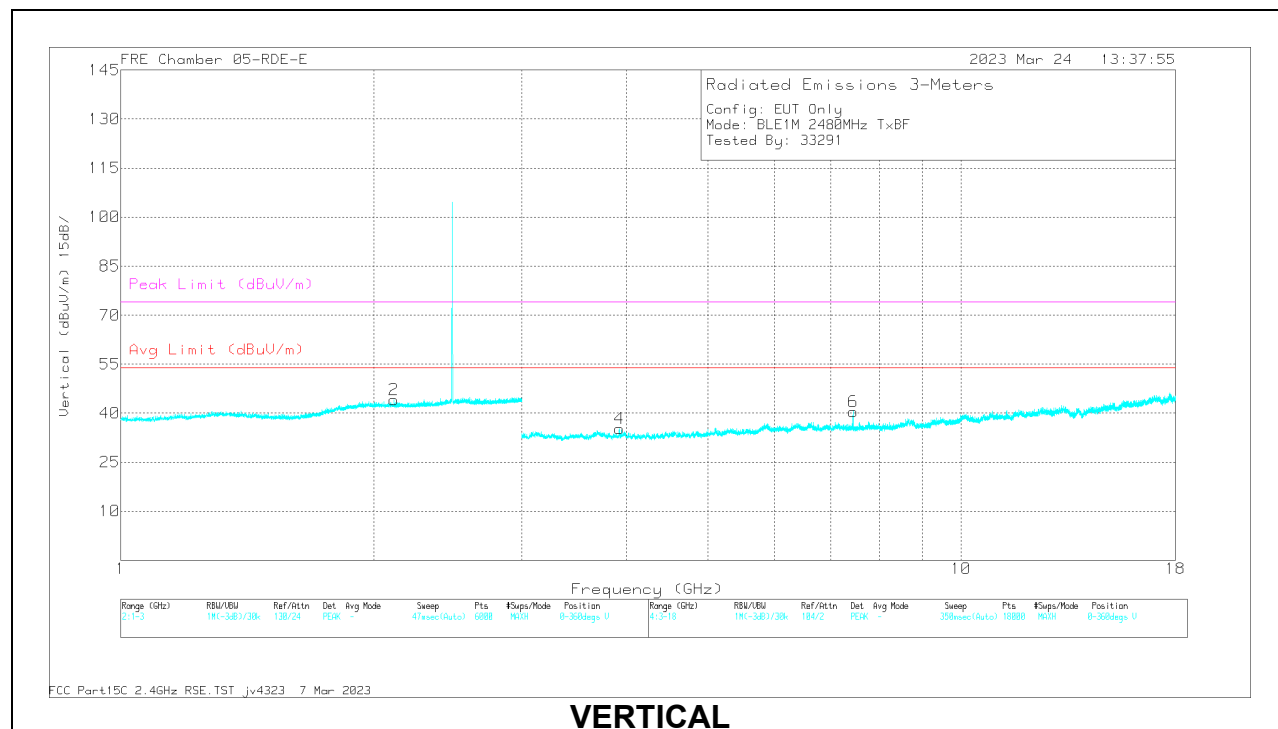
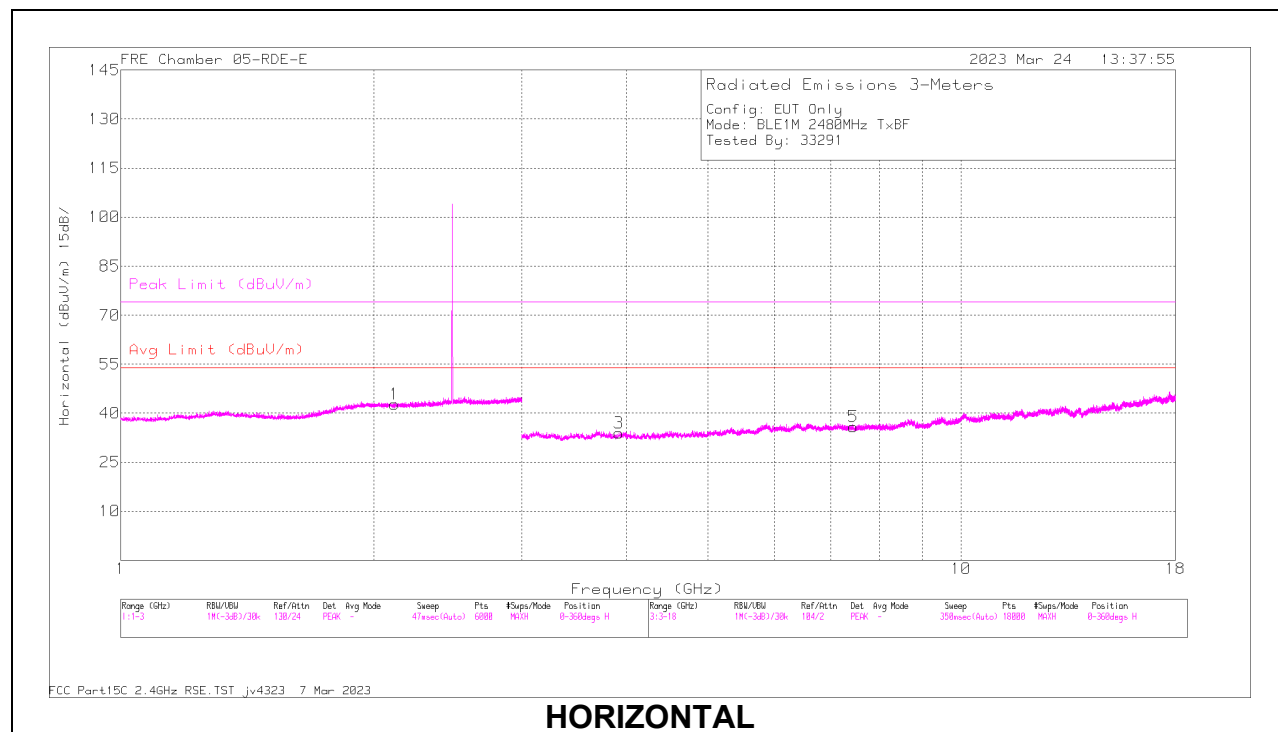
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.878473	61.79	PK2	31.2	-40.7	52.29	-	-	-	-	358	311	H
2	1.869251	61.8	PK2	31.1	-40.72	52.18	-	-	-	-	305	211	V
3	*4.515432	58.45	PK2	33.9	-48.05	44.3	-	-	74	-29.7	172	220	H
	*4.515635	46.72	MAV1	33.9	-48.04	32.58	54	-21.42	-	-	172	220	H
4	*4.512501	58.15	PK2	33.9	-47.95	44.1	-	-	74	-29.9	97	255	V
	*4.513834	46.68	MAV1	33.9	-48.02	32.56	54	-21.44	-	-	97	255	V
5	7.316689	57.31	PK2	35.7	-46.3	46.71	-	-	-	-	193	186	H
6	7.317731	59.61	PK2	35.7	-46.31	49	-	-	-	-	111	161	V

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

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.114179	61.73	PK2	31.5	-40.7	52.53	-	-	-	-	45	392	H
2	2.109865	61.71	PK2	31.5	-40.75	52.46	-	-	-	-	78	302	V
3	*3.920058	57.66	PK2	33.4	-47.27	43.79	-	-	74	-30.21	123	379	H
	*3.919466	46.29	MAv1	33.4	-47.25	32.44	54	-21.56	-	-	123	379	H
4	*3.920658	57.63	PK2	33.4	-47.32	43.71	-	-	74	-30.29	47	231	V
	*3.920051	46.31	MAv1	33.4	-47.26	32.45	54	-21.55	-	-	47	231	V
5	*7.436909	57.54	PK2	35.7	-46.52	46.72	-	-	74	-27.28	116	284	H
	*7.438091	45.35	MAv1	35.7	-46.48	34.57	54	-19.43	-	-	116	284	H
6	*7.437235	59.83	PK2	35.7	-46.51	49.02	-	-	74	-24.98	121	125	V
	*7.437022	50.53	MAv1	35.7	-46.52	39.71	54	-14.29	-	-	121	125	V

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

PK2 - KDB558074 Method: Maximum Peak

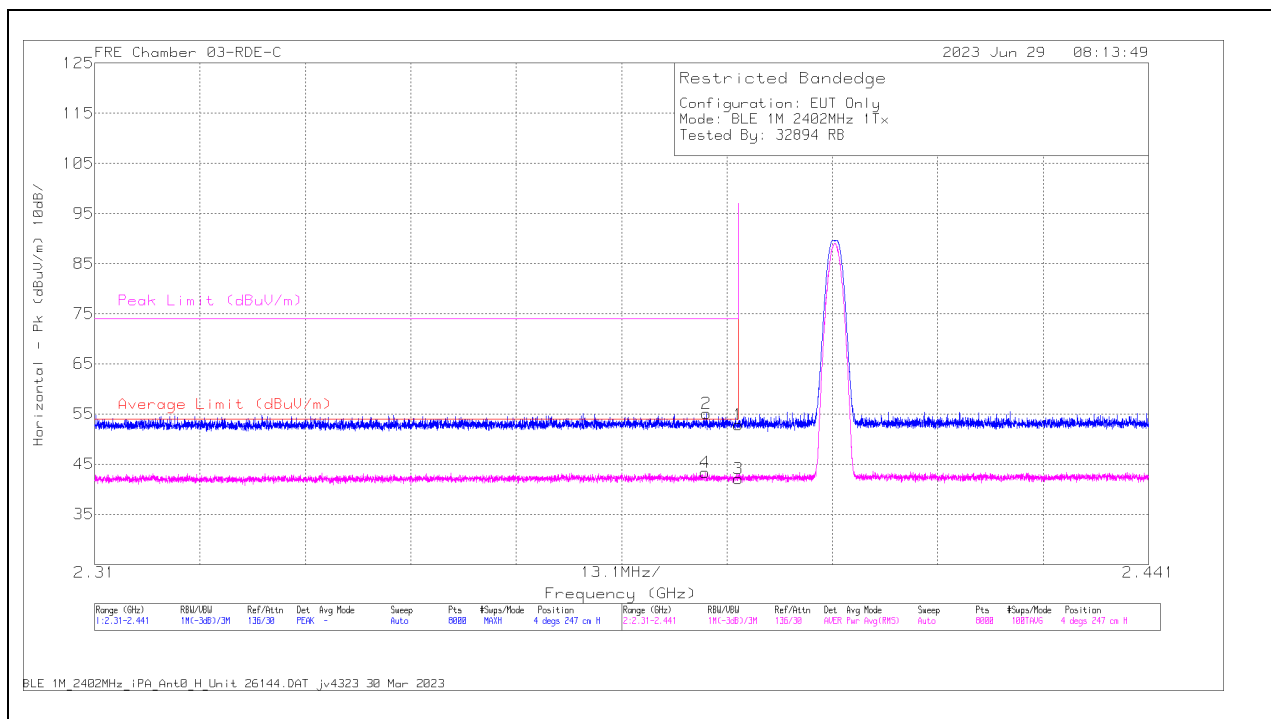
MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2.6. LOW POWER BLE (1Mbps)

ANT 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



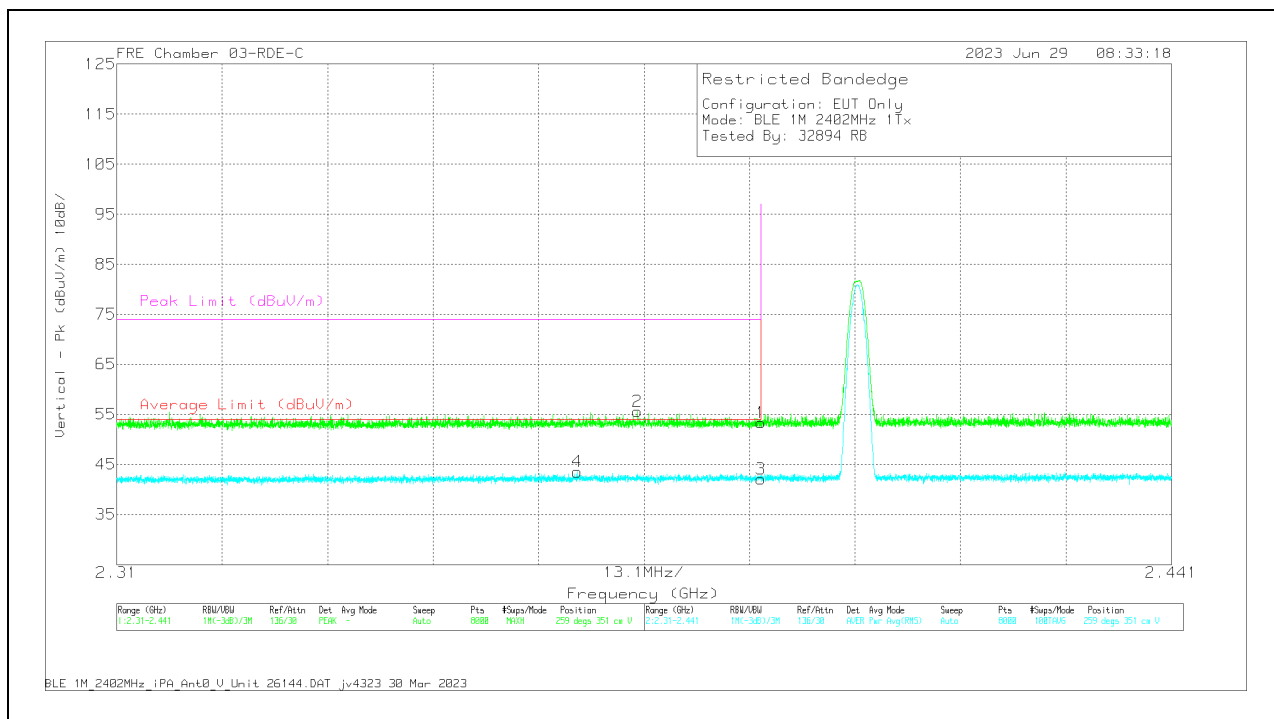
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.52	Pk	32.1	-39.8	52.82	-	-	74	-21.18	4	247	H
2	* 2.386071	62.87	Pk	32.1	-39.9	55.07	-	-	74	-18.93	4	247	H
3	* 2.39	49.84	RMS	32.1	-39.8	42.14	54	-11.86	-	-	4	247	H
4	* 2.385875	51.16	RMS	32.1	-39.89	43.37	54	-10.63	-	-	4	247	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (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	61	Pk	32.1	-39.8	53.3	-	-	74	-20.7	259	351	V
2	* 2.374673	63.45	Pk	32	-39.83	55.62	-	-	74	-18.38	259	351	V
3	* 2.39	49.83	RMS	32.1	-39.8	42.13	54	-11.87	-	-	259	351	V
4	* 2.367172	51.43	RMS	32	-39.9	43.53	54	-10.47	-	-	259	351	V

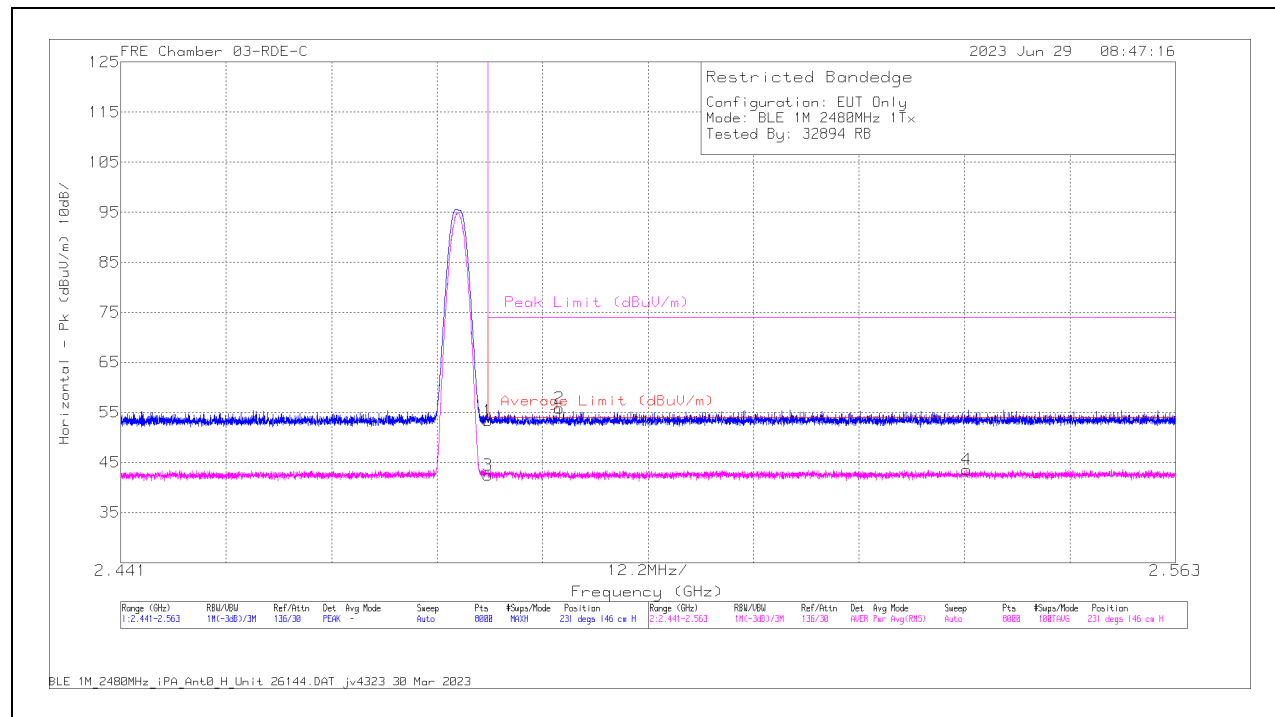
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



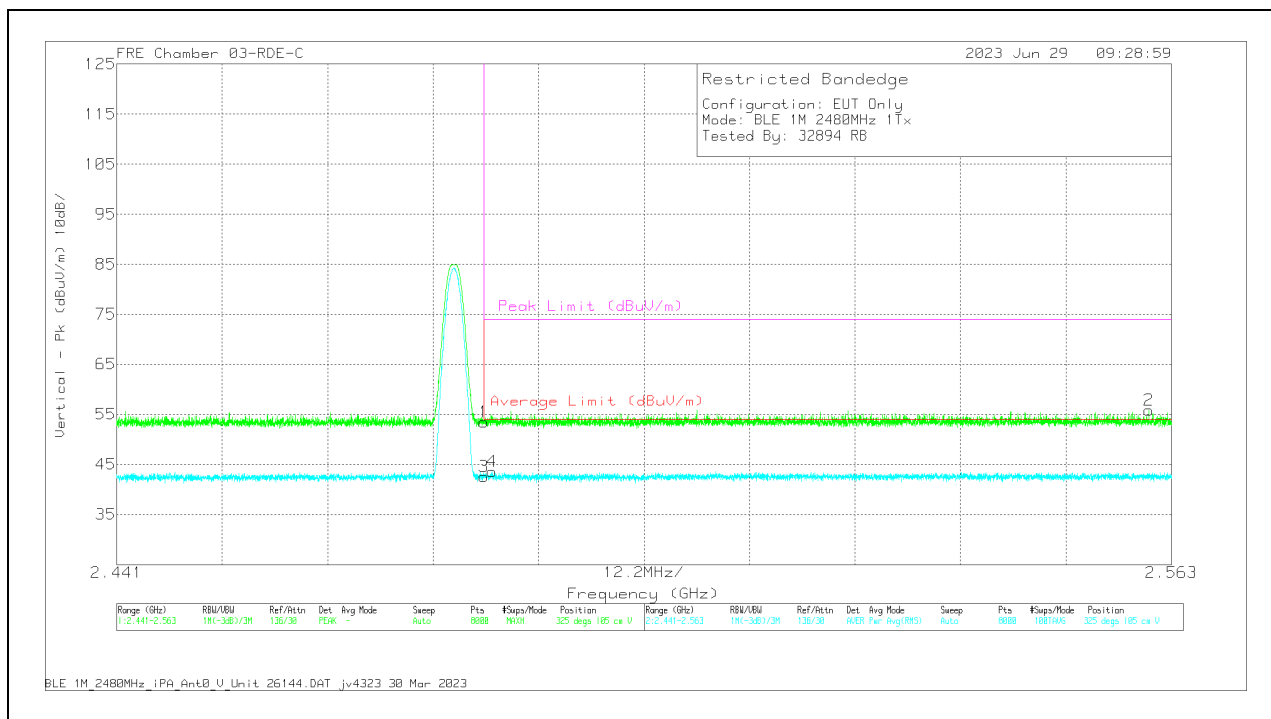
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.75	Pk	32.2	-39.6	53.35	-	-	74	-20.65	231	146	H
2	* 2.491728	63.2	Pk	32.3	-39.6	55.9	-	-	74	-18.1	231	146	H
3	* 2.4835	49.82	RMS	32.2	-39.6	42.42	54	-11.58	-	-	231	146	H
4	2.538857	50.82	RMS	32.3	-39.51	43.61	54	-10.39	-	-	231	146	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.86	Pk	32.2	-39.6	53.46	-	-	74	-20.54	325	105	V
2	2.560377	63.04	Pk	32.3	-39.5	55.84	-	-	74	-18.16	325	105	V
3	* 2.4835	50	RMS	32.2	-39.6	42.6	54	-11.4	-	-	325	105	V
4	* 2.484422	51.04	RMS	32.2	-39.64	43.6	54	-10.4	-	-	325	105	V

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

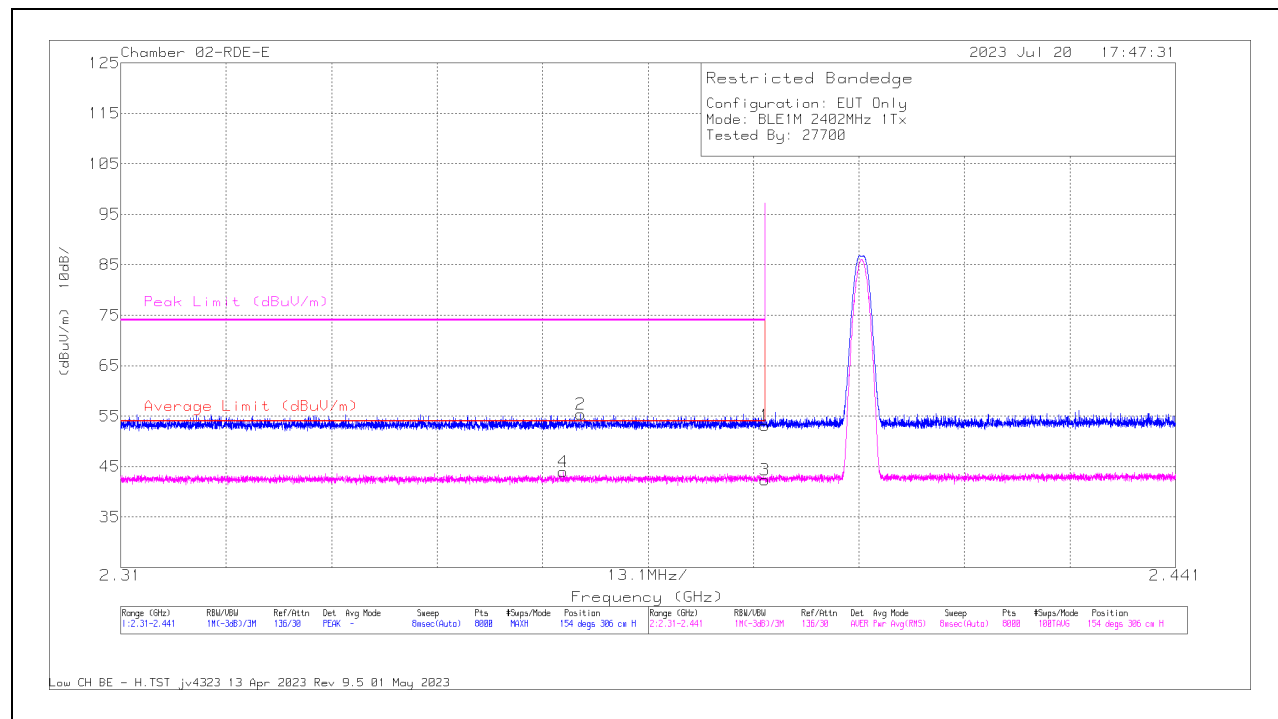
Pk - Peak detector

RMS - RMS detection

ANT 3

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



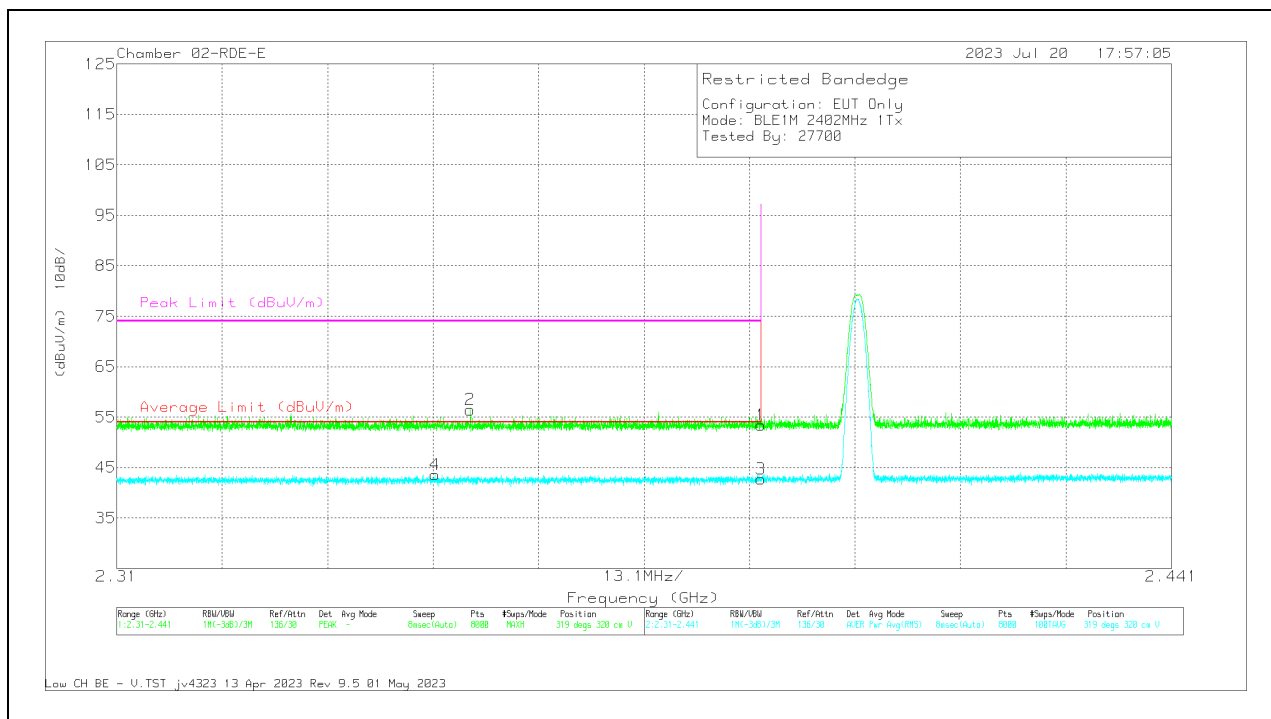
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.07	Pk	32.3	0	-39.27	53.1	-	-	74	-20.9	154	306	H
2	* 2.367123	62.51	Pk	32.2	0	-39.31	55.4	-	-	74	-18.6	154	306	H
3	* 2.39	49.37	RMS	32.3	0	-39.27	42.4	54	-11.6	-	-	154	306	H
4	* 2.364961	51.03	RMS	32.2	0	-39.31	43.92	54	-10.08	-	-	154	306	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB/m)	DCCF (dB)	Gain/Loss (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	60.38	Pk	32.3	0	-39.27	53.41	-	-	74	-20.59	319	320	V
2	* 2.353923	63.65	Pk	32.1	0	-39.31	56.44	-	-	74	-17.56	319	320	V
3	* 2.39	49.65	RMS	32.3	0	-39.27	42.68	54	-11.32	-	-	319	320	V
4	* 2.34955	50.72	RMS	32.1	0	-39.25	43.57	54	-10.43	-	-	319	320	V

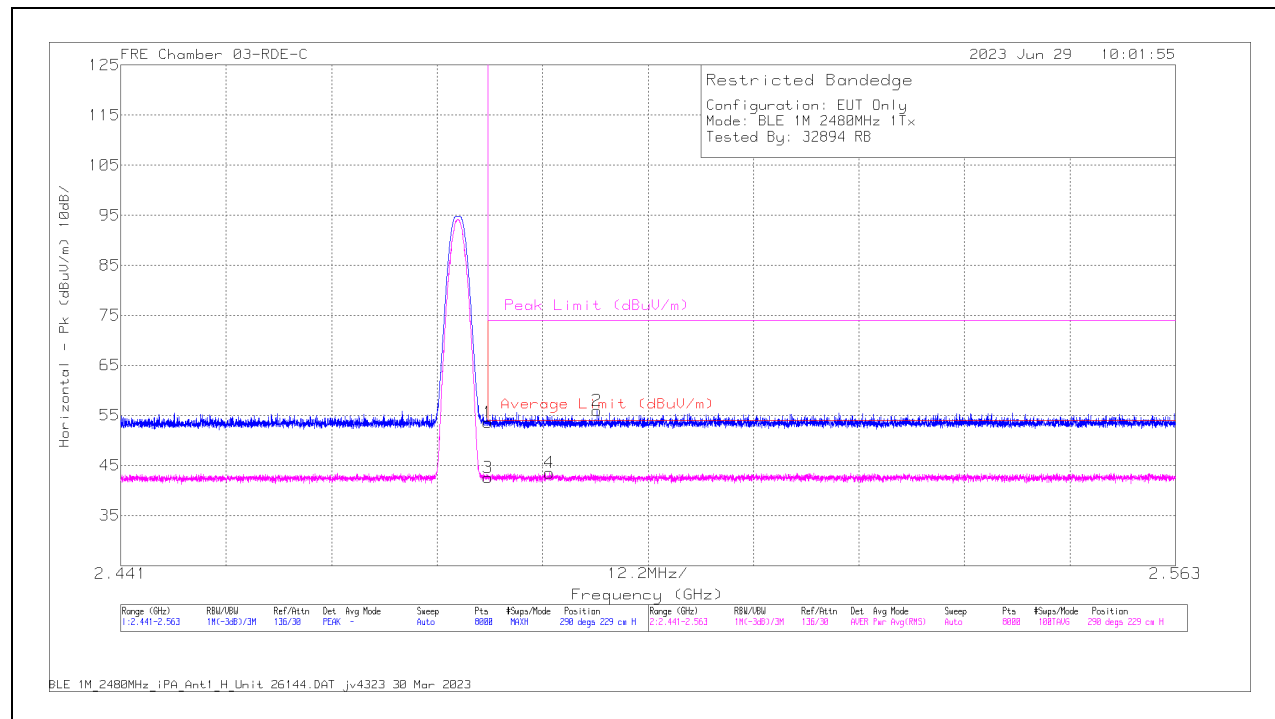
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



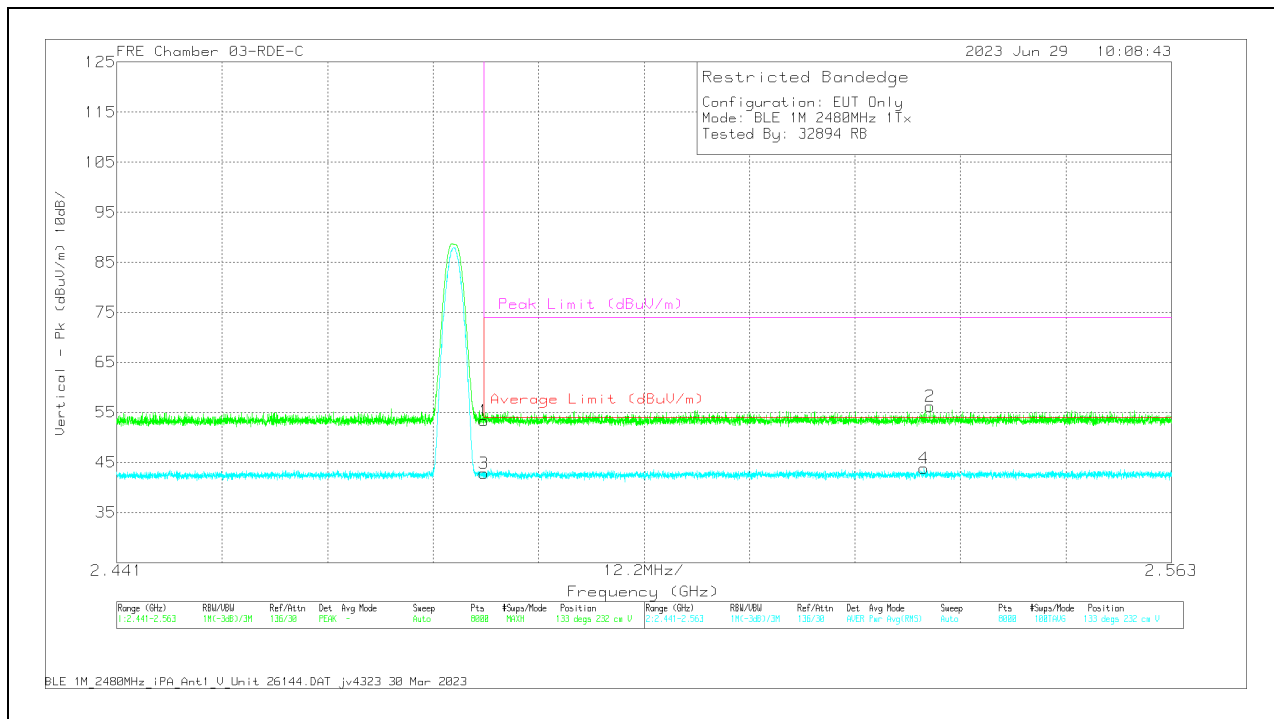
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.97	Pk	32.2	-39.6	53.57	-	-	74	-20.43	290	229	H
2	* 2.496075	63.28	Pk	32.3	-39.61	55.97	-	-	74	-18.03	290	229	H
3	* 2.4835	50.04	RMS	32.2	-39.6	42.64	54	-11.36	-	-	290	229	H
4	* 2.4906	50.87	RMS	32.3	-39.64	43.53	54	-10.47	-	-	290	229	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.78	Pk	32.2	-39.6	53.38	-	-	74	-20.62	133	232	V
2	2.53509	63.54	Pk	32.3	-39.59	56.25	-	-	74	-17.75	133	232	V
3	* 2.4835	50.22	RMS	32.2	-39.6	42.82	54	-11.18	-	-	133	232	V
4	2.534342	51.04	RMS	32.3	-39.53	43.81	54	-10.19	-	-	133	232	V

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

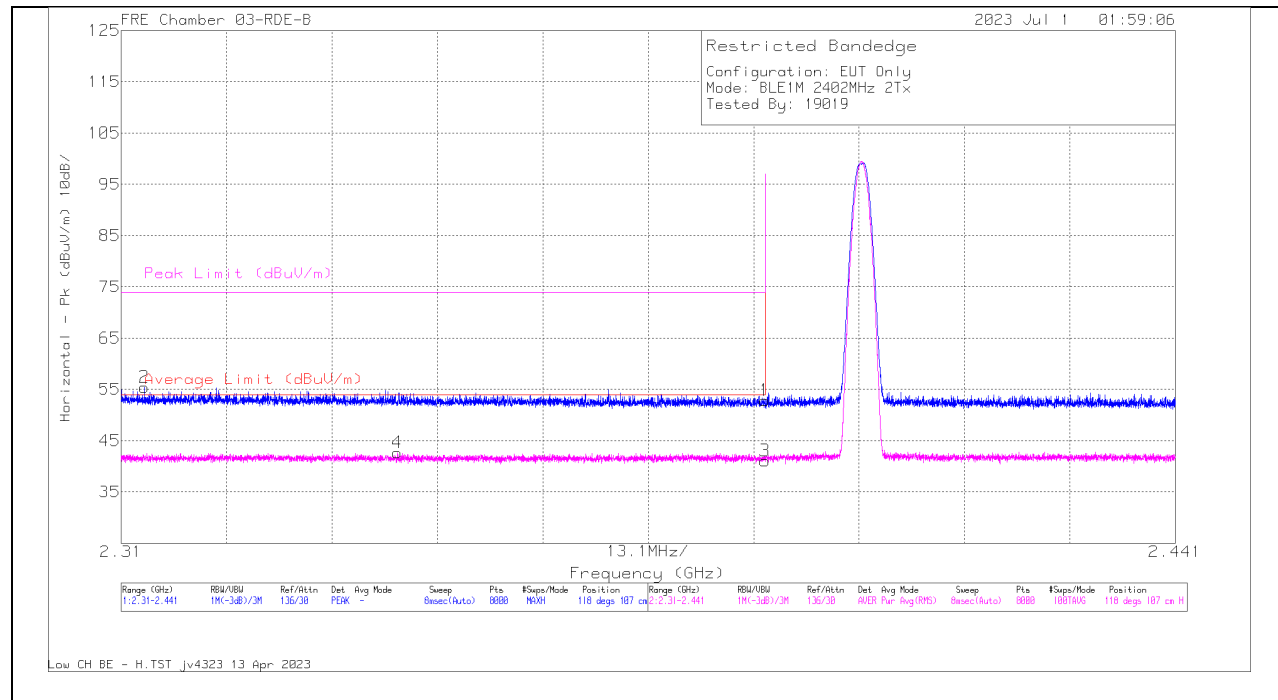
Pk - Peak detector

RMS - RMS detection

10.2.7. LOW POWER BLE TXBF (1Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



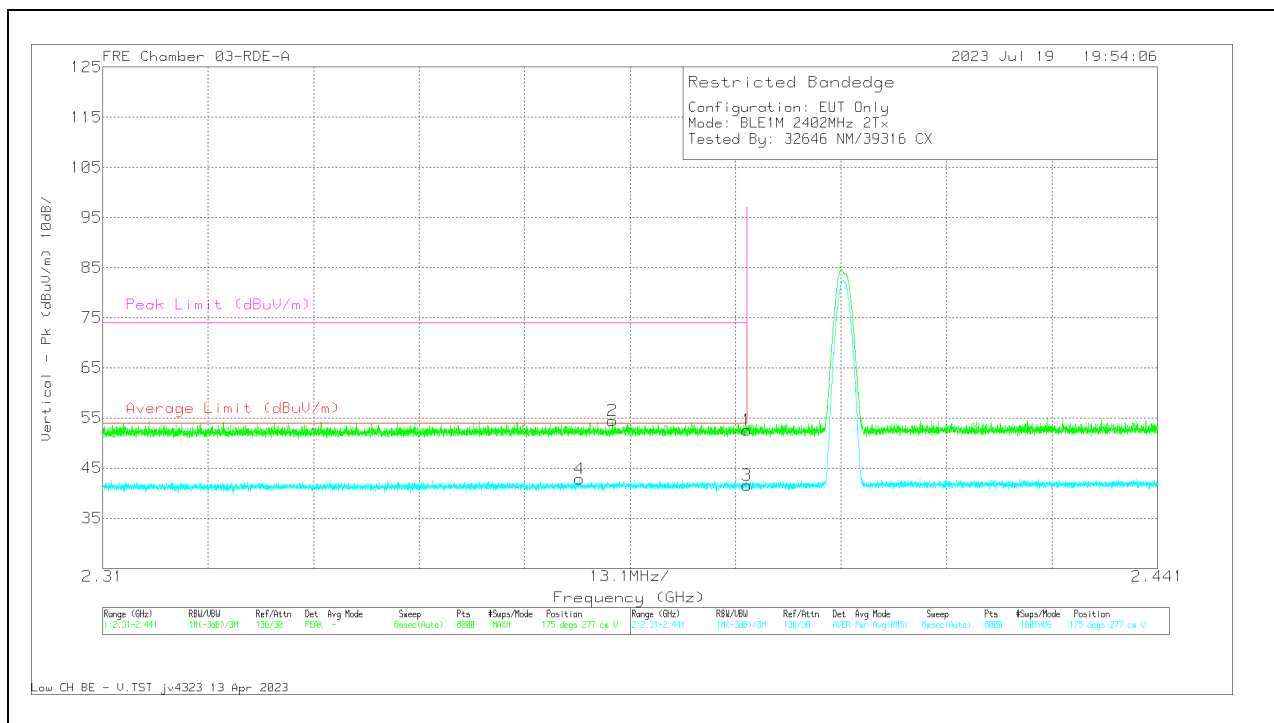
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.86	Pk	32.2	-41.2	52.86	-	-	74	-21.14	118	107	H
2	* 2.312866	64.65	Pk	32	-41.2	55.45	-	-	74	-18.55	118	107	H
3	* 2.39	50.07	RMS	32.2	-41.2	41.07	54	-12.93	-	-	118	107	H
4	* 2.344343	51.84	RMS	32.1	-41.27	42.67	54	-11.33	-	-	118	107	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (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	61.11	Pk	31.9	0	-40.42	52.59	-	-	74	-21.41	175	277	V
2	* 2.373313	63.13	Pk	31.8	0	-40.42	54.51	-	-	74	-19.49	175	277	V
3	* 2.39	50.07	RMS	31.9	0	-40.42	41.55	54	-12.45	-	-	175	277	V
4	* 2.369252	51.42	RMS	31.8	0	-40.42	42.8	54	-11.2	-	-	175	277	V

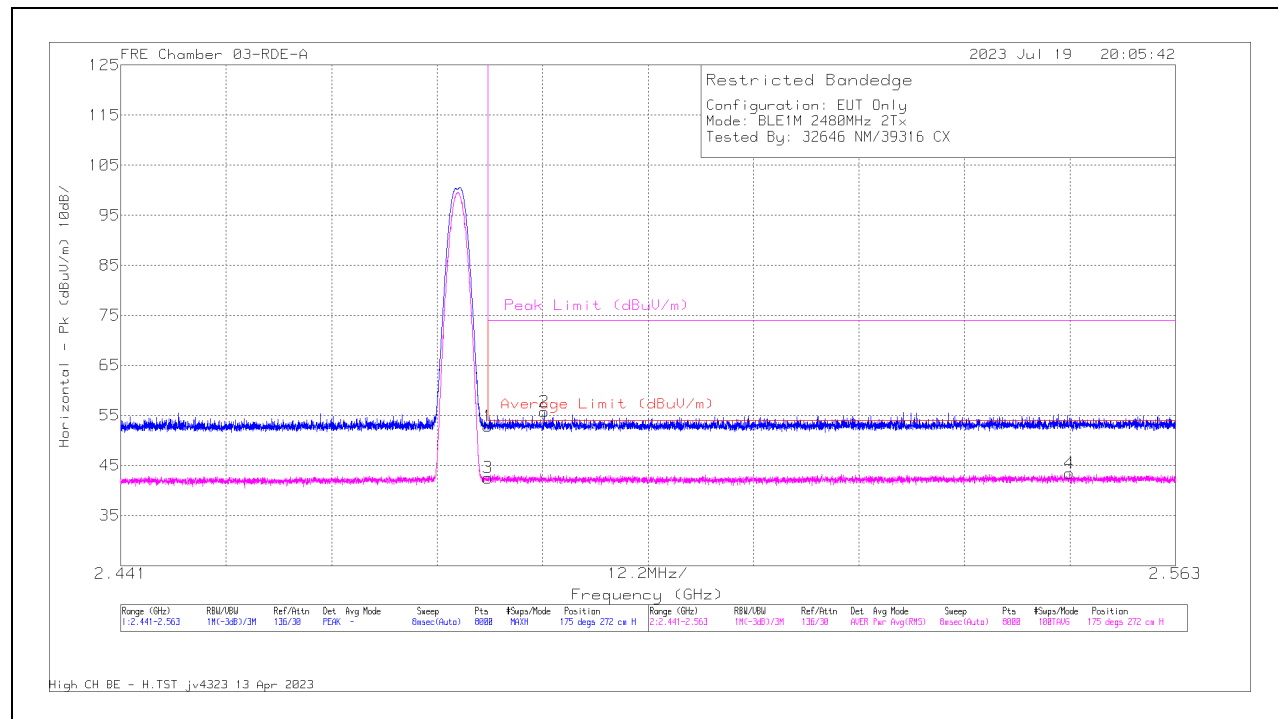
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



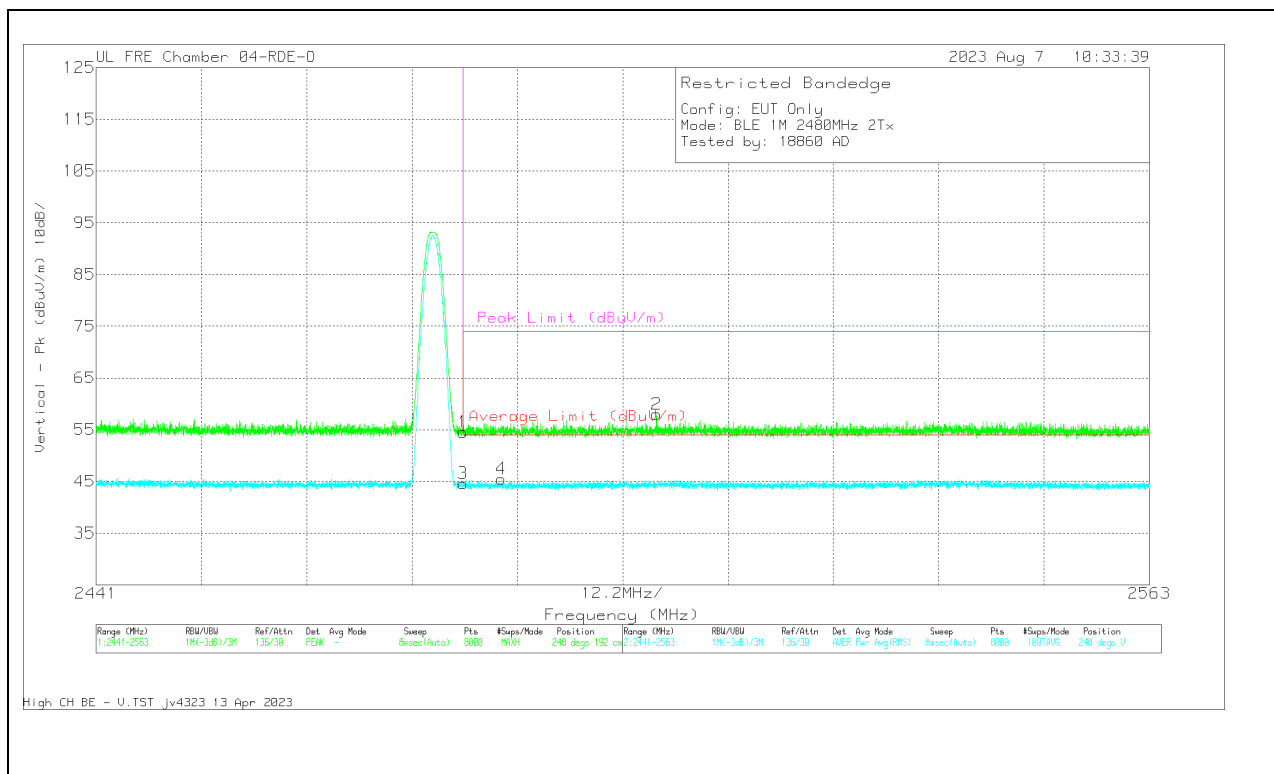
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.7	Pk	32.2	0	-40.11	52.79	-	-	74	-21.21	175	272	H
2	* 2.48989	63.57	Pk	32.2	0	-40.05	55.72	-	-	74	-18.28	175	272	H
3	* 2.4835	50.44	RMS	32.2	0	-40.11	42.53	54	-11.47	-	-	175	272	H
4	2.550753	51.14	RMS	32.2	0	-39.93	43.41	54	-10.59	-	-	175	272	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	59.54	Pk	32.2	-37.2	54.54	-	-	74	-19.46	248	192	V
3	2483.5	49.6	RMS	32.2	-37.2	44.6	54	-9.4	-	-	248	192	V
4	2487.946	50.57	RMS	32.1	-37.19	45.48	54	-8.52	-	-	248	192	V
2	2505.913	62.84	Pk	32.3	-37.16	57.98	-	-	74	-16.02	248	192	V

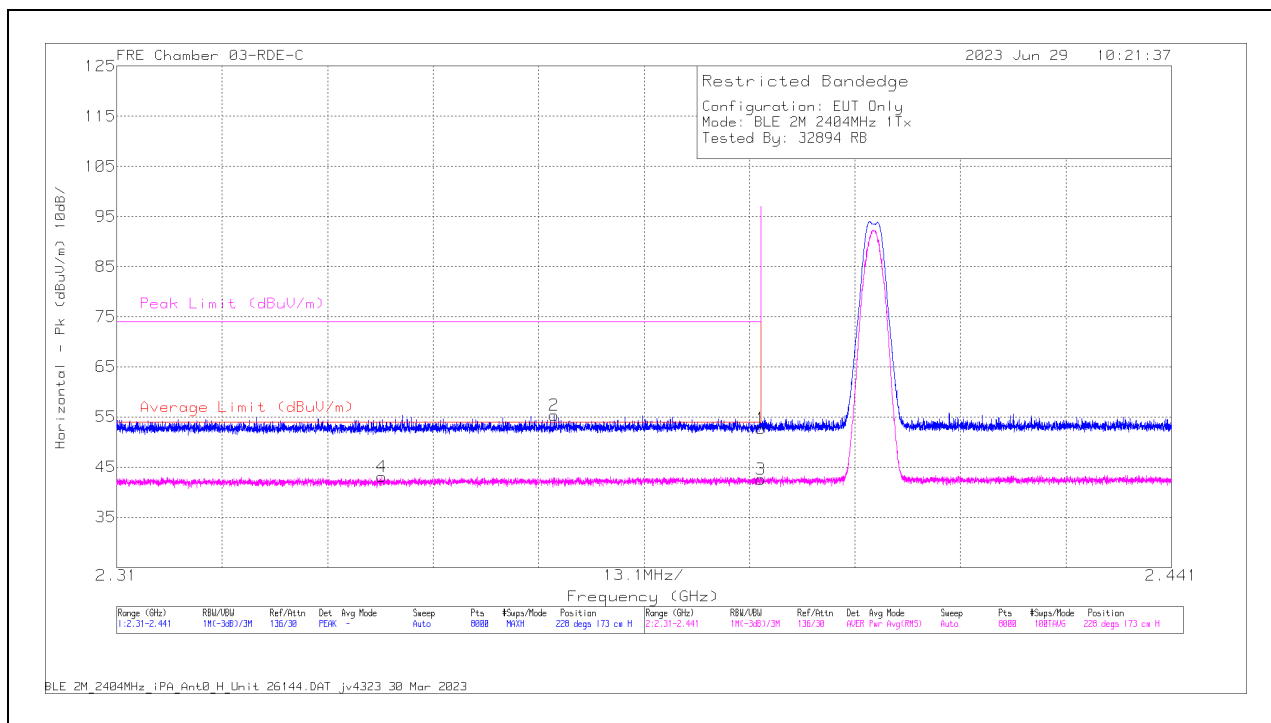
Pk - Peak detector
RMS - RMS detection

10.2.8. LOW POWER BLE (2Mbps)

ANT 4

BANDEDGE (LOW CHANNEL)

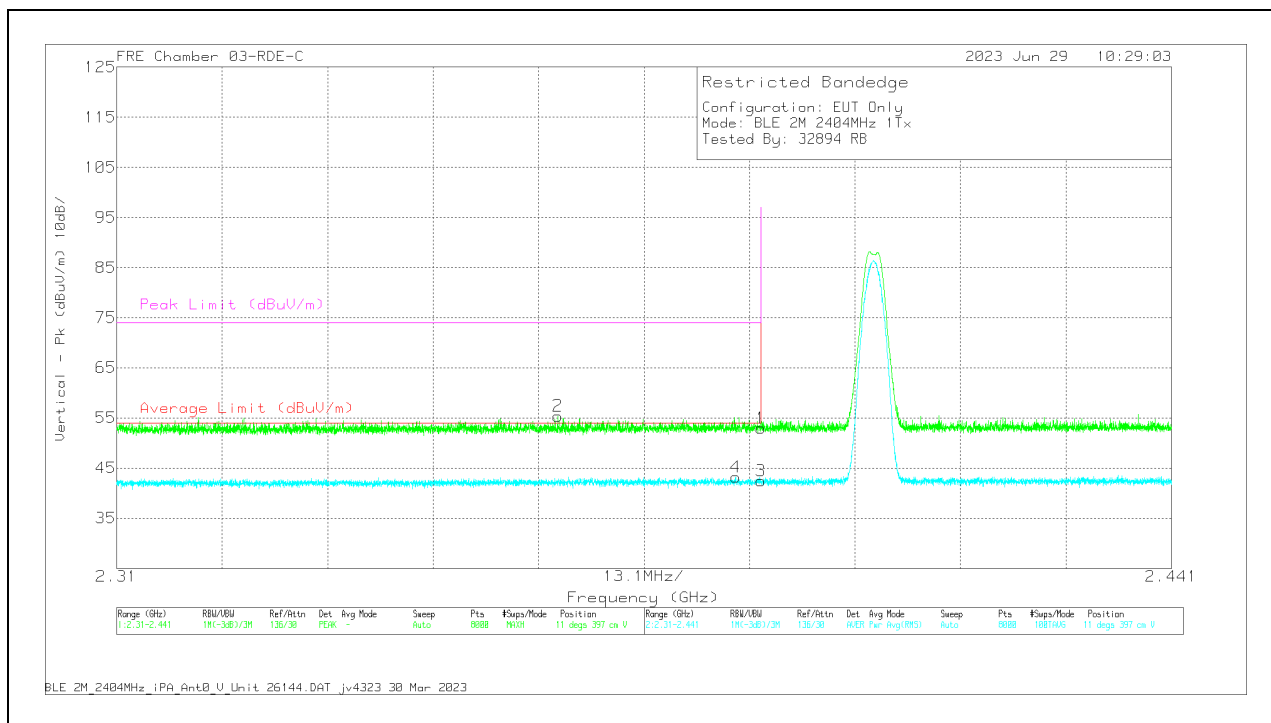
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (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	60.37	Pk	32.1	-39.8	52.67	-	-	74	-21.33	228	173	H
2	* 2.364355	63.26	Pk	32	-39.9	55.36	-	-	74	-18.64	228	173	H
3	* 2.39	50.26	RMS	32.1	-39.8	42.56	54	-11.44	-	-	228	173	H
4	* 2.342918	51.15	RMS	31.9	-39.91	43.14	54	-10.86	-	-	228	173	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (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	60.71	Pk	32.1	-39.8	53.01	-	-	74	-20.99	11	397	V
2	* 2.364781	63.31	Pk	32	-39.9	55.41	-	-	74	-18.59	11	397	V
3	* 2.39	50.14	RMS	32.1	-39.8	42.44	54	-11.56	-	-	11	397	V
4	* 2.386906	51.04	RMS	32.1	-39.9	43.24	54	-10.76	-	-	11	397	V

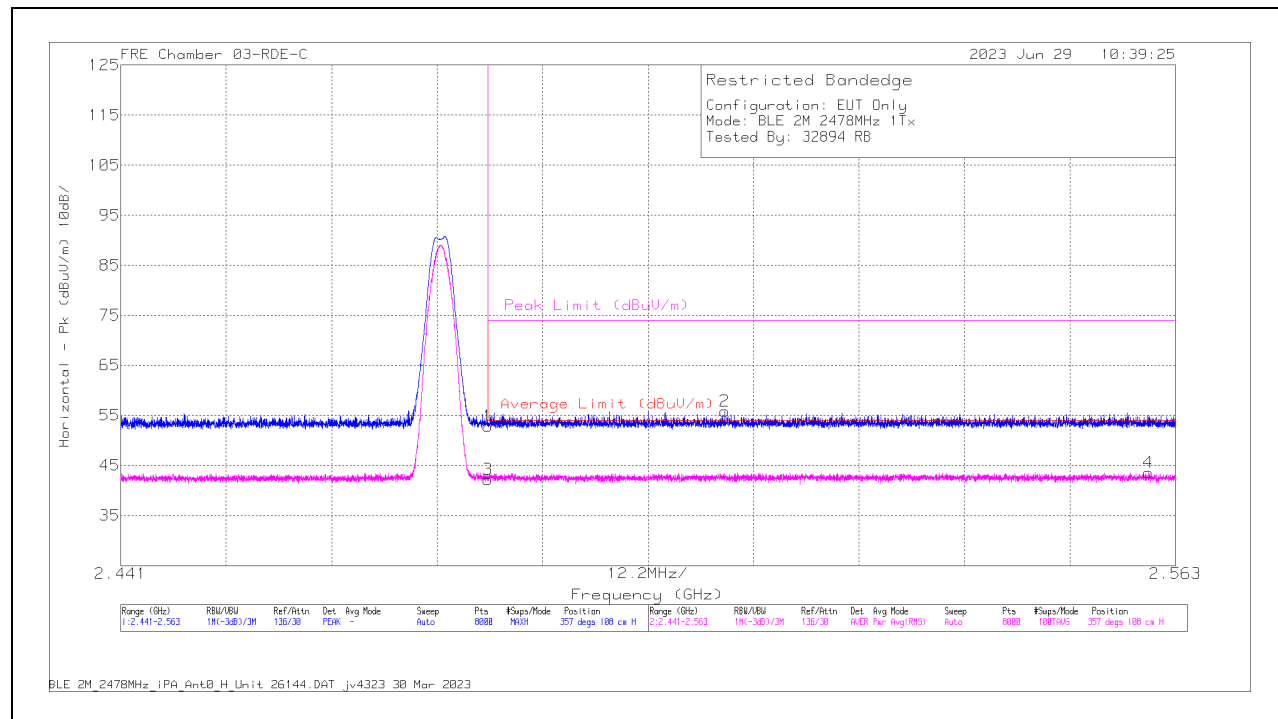
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



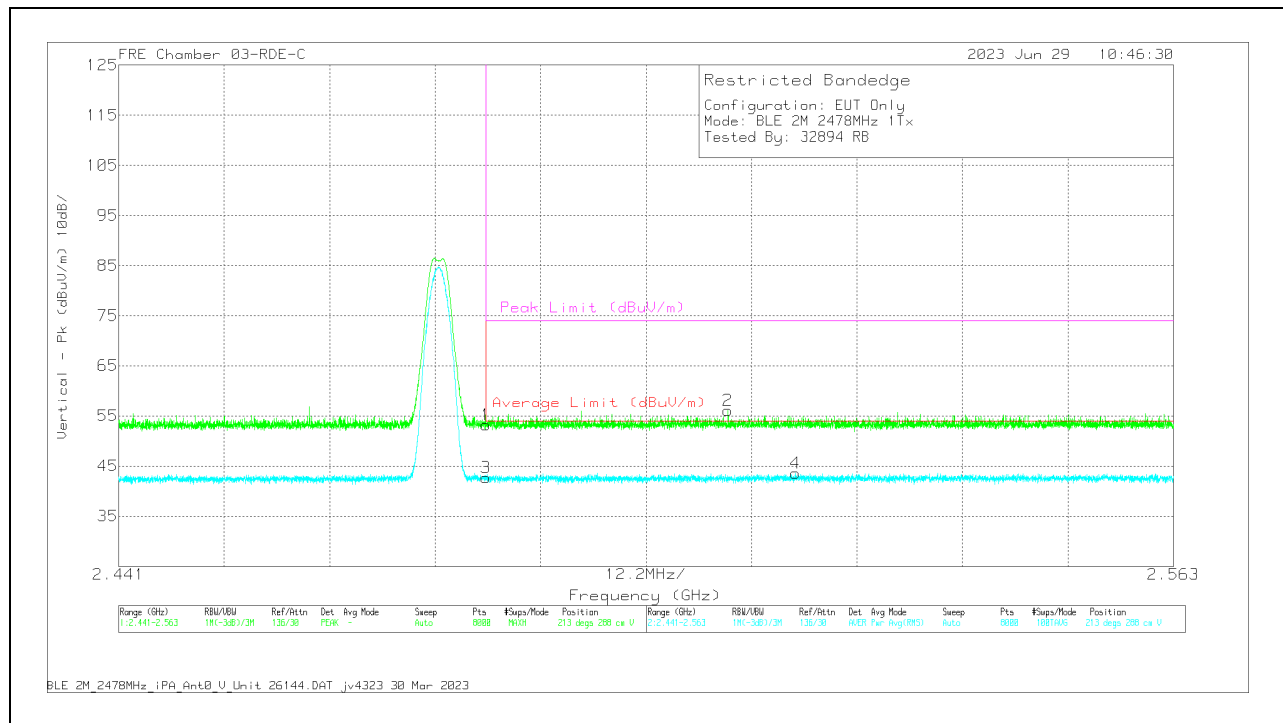
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.21	Pk	32.2	-39.6	52.81	-	-	74	-21.19	357	108	H
2	2.510869	63.07	Pk	32.3	-39.5	55.87	-	-	74	-18.13	357	108	H
3	* 2.4835	49.63	RMS	32.2	-39.6	42.23	54	-11.77	-	-	357	108	H
4	2.559889	50.78	RMS	32.3	-39.5	43.58	54	-10.42	-	-	357	108	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.68	Pk	32.2	-39.6	53.28	-	-	74	-20.72	213	288	V
2	2.511479	63.42	Pk	32.3	-39.6	56.12	-	-	74	-17.88	213	288	V
3	* 2.4835	50.15	RMS	32.2	-39.6	42.75	54	-11.25	-	-	213	288	V
4	2.519258	50.87	RMS	32.3	-39.57	43.6	54	-10.4	-	-	213	288	V

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

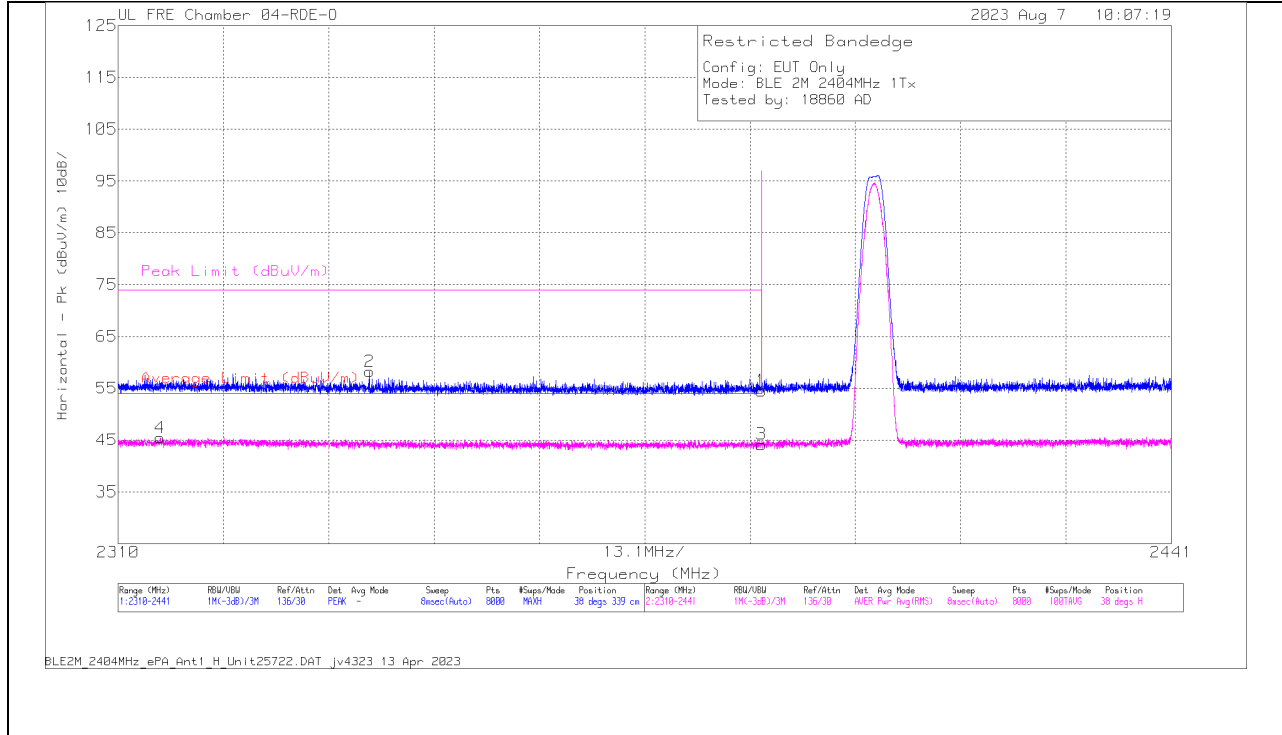
Pk - Peak detector

RMS - RMS detection

ANT 3

BANDEGE (LOW CHANNEL)

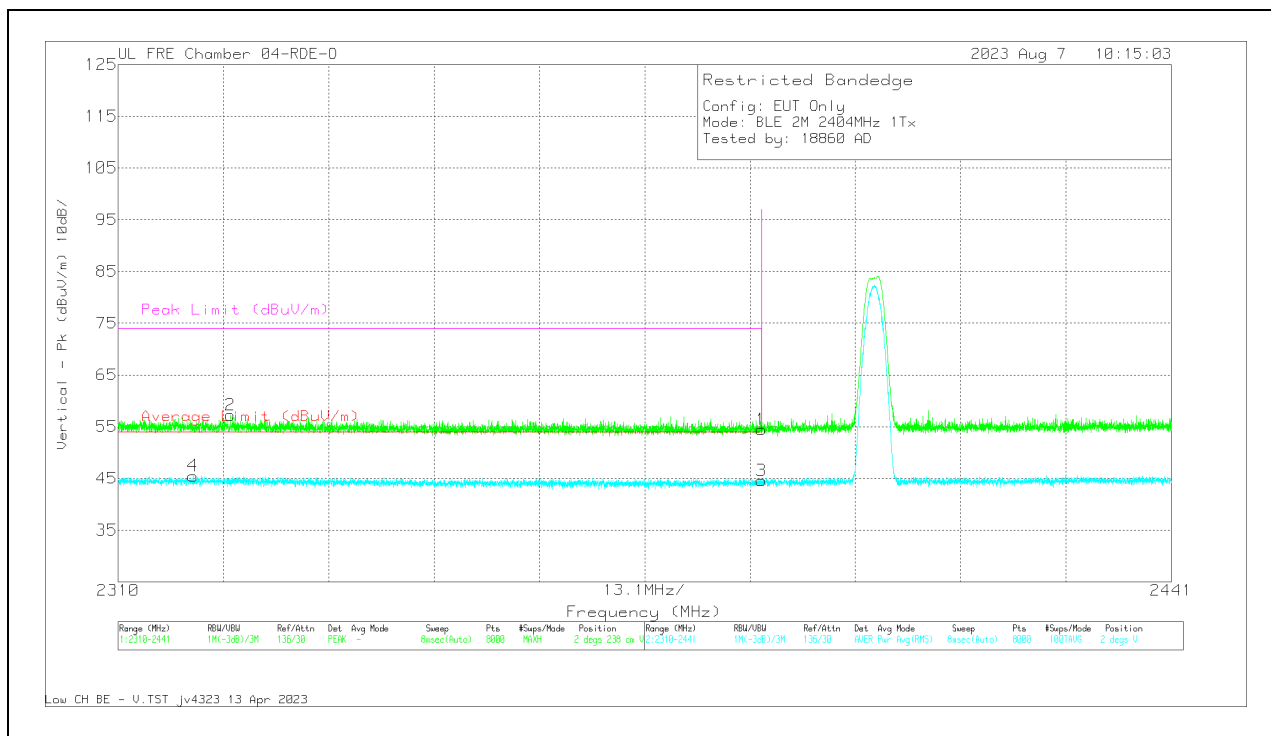
HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2315.224	50.18	RMS	32.6	-37.33	45.45	54	-8.55	-	-	38	339	H
2	2341.264	63.09	Pk	32.5	-37.36	58.23	-	-	74	-15.77	38	339	H
1	2390	59.68	Pk	32.2	-37.35	54.53	-	-	74	-19.47	38	339	H
3	2390	49.31	RMS	32.2	-37.35	44.16	54	-9.84	-	-	38	339	H

Pk - Peak detector
RMS - RMS detection

VERTICAL RESULT

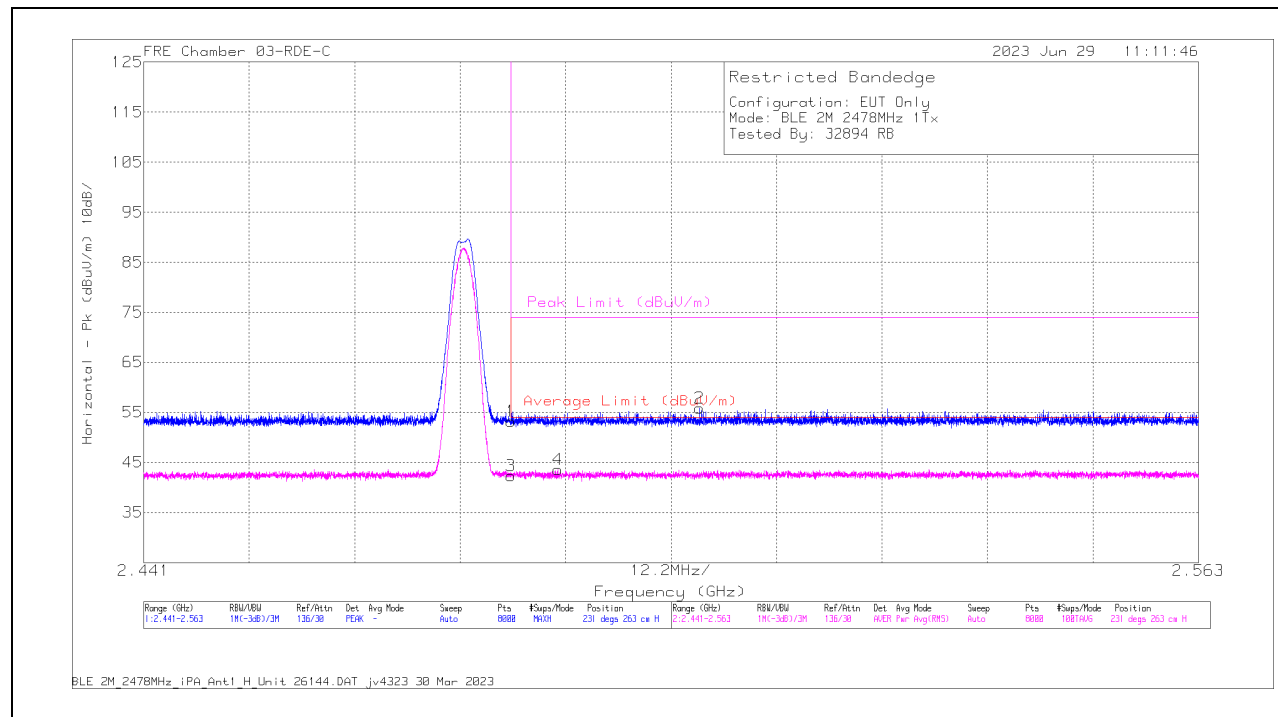


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80404_ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2319.319	50.24	RMS	32.6	-37.35	45.49	54	-8.51	-	-	2	238	V
2	2323.953	61.85	Pk	32.7	-37.32	57.23	-	-	74	-16.77	2	238	V
1	2390	59.6	Pk	32.2	-37.35	54.45	-	-	74	-19.55	2	238	V
3	2390	49.72	RMS	32.2	-37.35	44.57	54	-9.43	-	-	2	238	V

Pk - Peak detector
RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



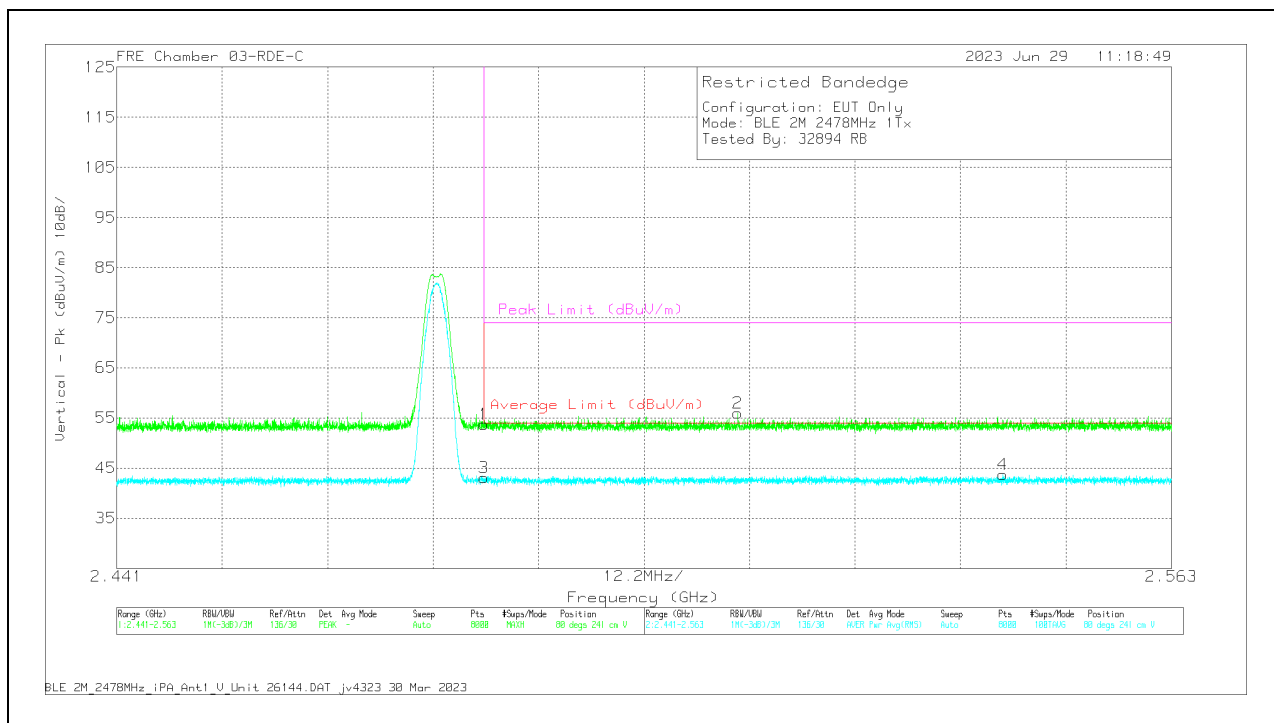
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.64	Pk	32.2	-39.6	53.24	-	-	74	-20.76	231	263	H
2	2.505287	63.2	Pk	32.3	-39.67	55.83	-	-	74	-18.17	231	263	H
3	* 2.4835	49.71	RMS	32.2	-39.6	42.31	54	-11.69	-	-	231	263	H
4	* 2.488876	51.02	RMS	32.3	-39.71	43.61	54	-10.39	-	-	231	263	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.13	Pk	32.2	-39.6	53.73	-	-	74	-20.27	80	241	V
2	2.512852	63.32	Pk	32.3	-39.61	56.01	-	-	74	-17.99	80	241	V
3	* 2.4835	50.48	RMS	32.2	-39.6	43.08	54	-10.92	-	-	80	241	V
4	2.543463	50.92	RMS	32.3	-39.55	43.67	54	-10.33	-	-	80	241	V

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

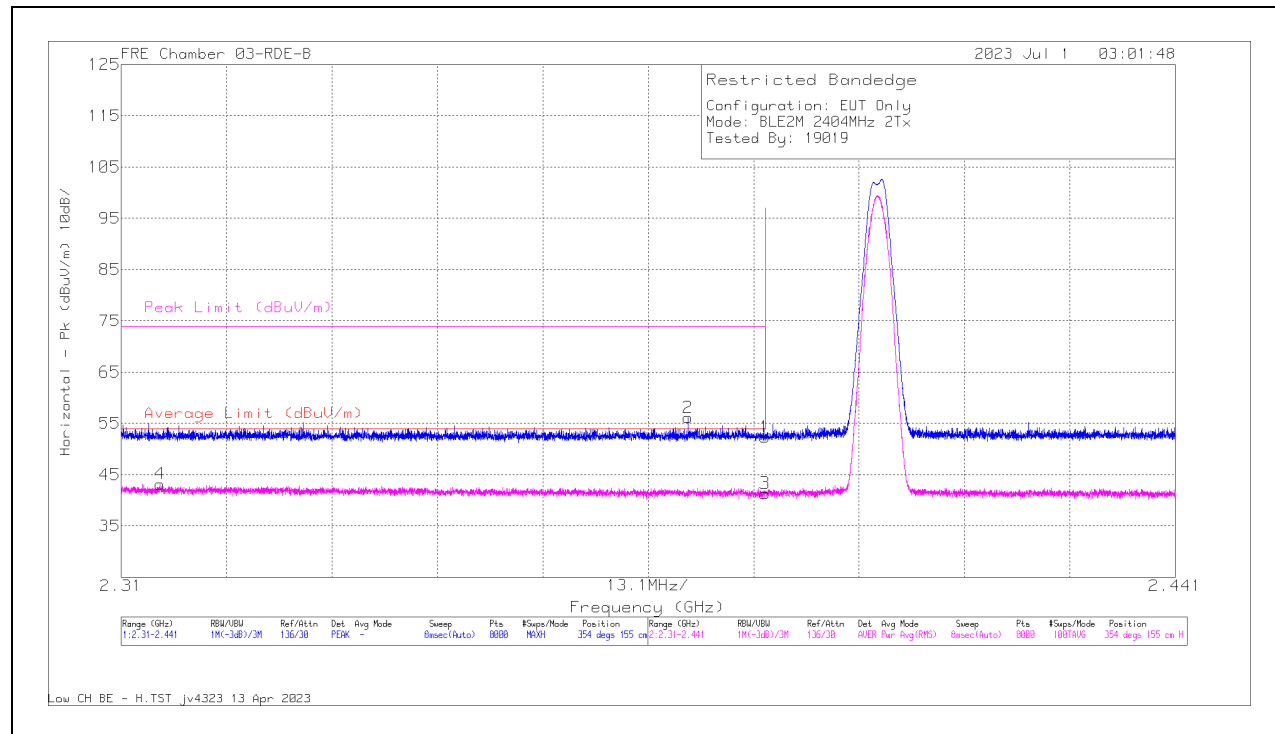
Pk - Peak detector

RMS - RMS detection

10.2.9. LOW POWER BLE TXBF (2Mbps)

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



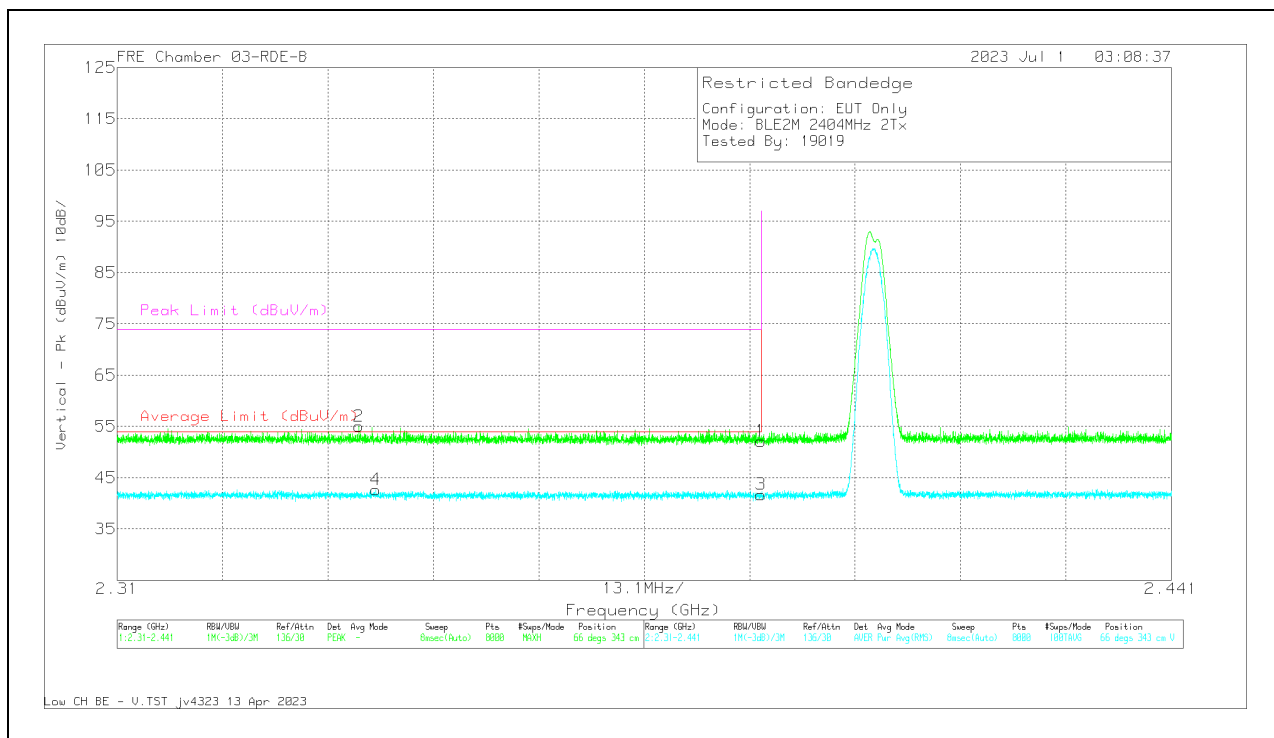
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.33	Pk	32.2	-41.2	52.33	-	-	74	-21.67	354	155	H
2	* 2.380454	65.22	Pk	32.1	-41.21	56.11	-	-	74	-17.89	354	155	H
3	* 2.39	50.33	RMS	32.2	-41.2	41.33	54	-12.67	-	-	354	155	H
4	* 2.314798	52.31	RMS	32.1	-41.22	43.19	54	-10.81	-	-	354	155	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (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	61.12	Pk	32.2	-41.2	52.12	-	-	74	-21.88	66	343	V
2	* 2.340035	64.13	Pk	32.1	-41.2	55.03	-	-	74	-18.97	66	343	V
3	* 2.39	50.71	RMS	32.2	-41.2	41.71	54	-12.29	-	-	66	343	V
4	* 2.342148	51.85	RMS	32.1	-41.29	42.66	54	-11.34	-	-	66	343	V

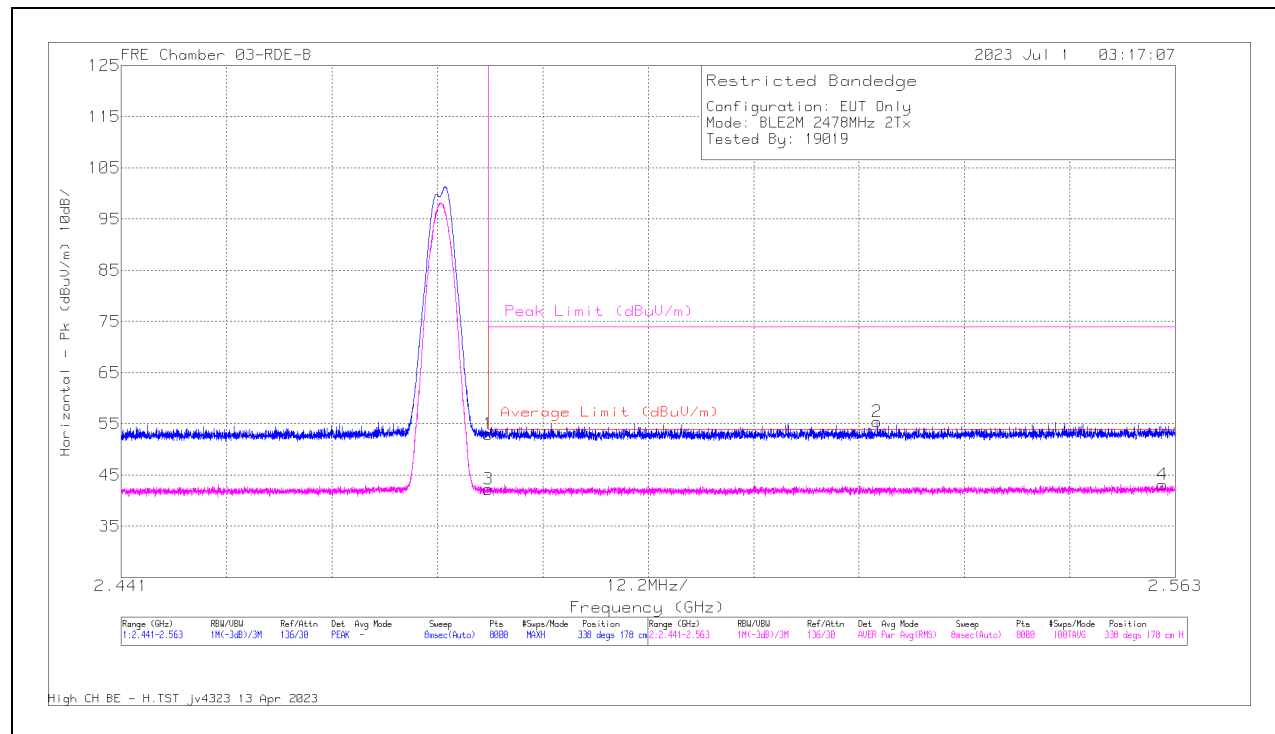
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



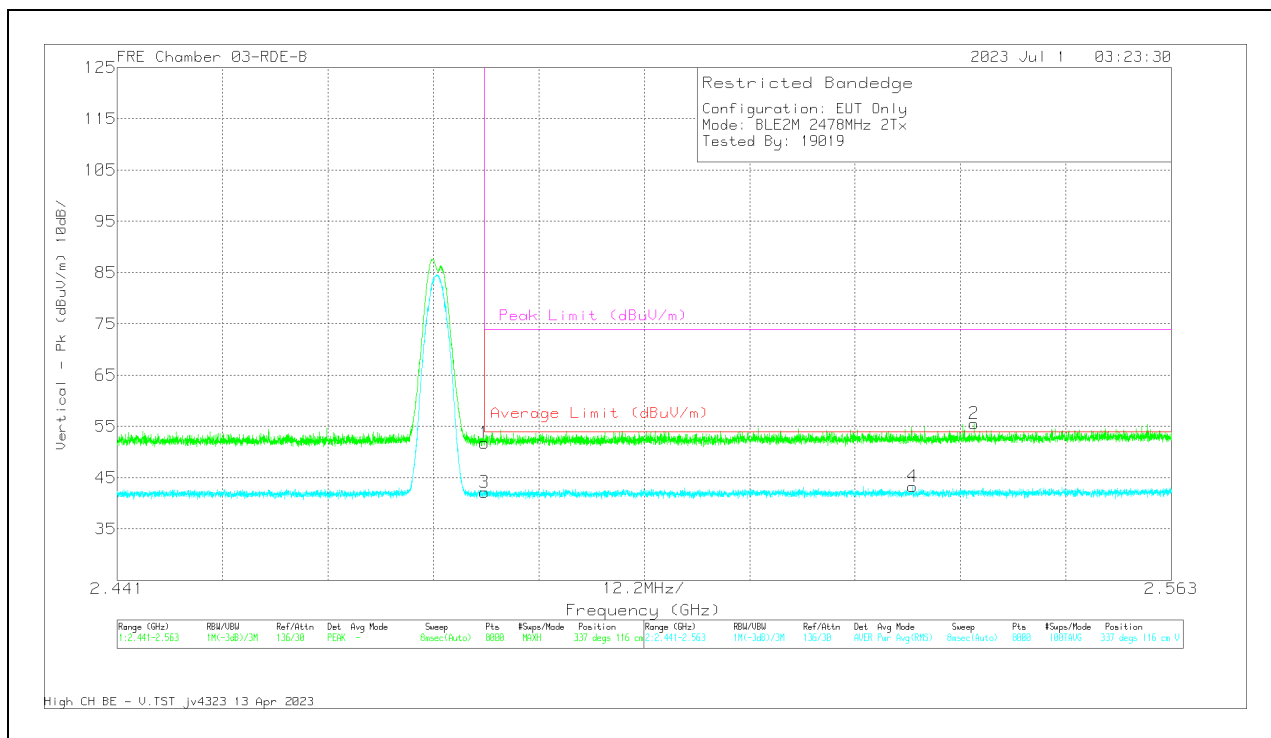
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.98	Pk	32.2	-41.15	53.03	-	-	74	-20.97	338	178	H
2	2.528485	64.11	Pk	32.3	-41	55.41	-	-	74	-18.59	338	178	H
3	* 2.4835	51.19	RMS	32.2	-41.15	42.24	54	-11.76	-	-	338	178	H
4	2.561506	51.7	RMS	32.3	-40.85	43.15	54	-10.85	-	-	338	178	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.74	Pk	32.2	-41.15	51.79	-	-	74	-22.21	337	116	V
2	2.540169	64.18	Pk	32.3	-40.92	55.56	-	-	74	-18.44	337	116	V
3	* 2.4835	51.12	RMS	32.2	-41.15	42.17	54	-11.83	-	-	337	116	V
4	2.533046	51.99	RMS	32.3	-41	43.29	54	-10.71	-	-	337	116	V

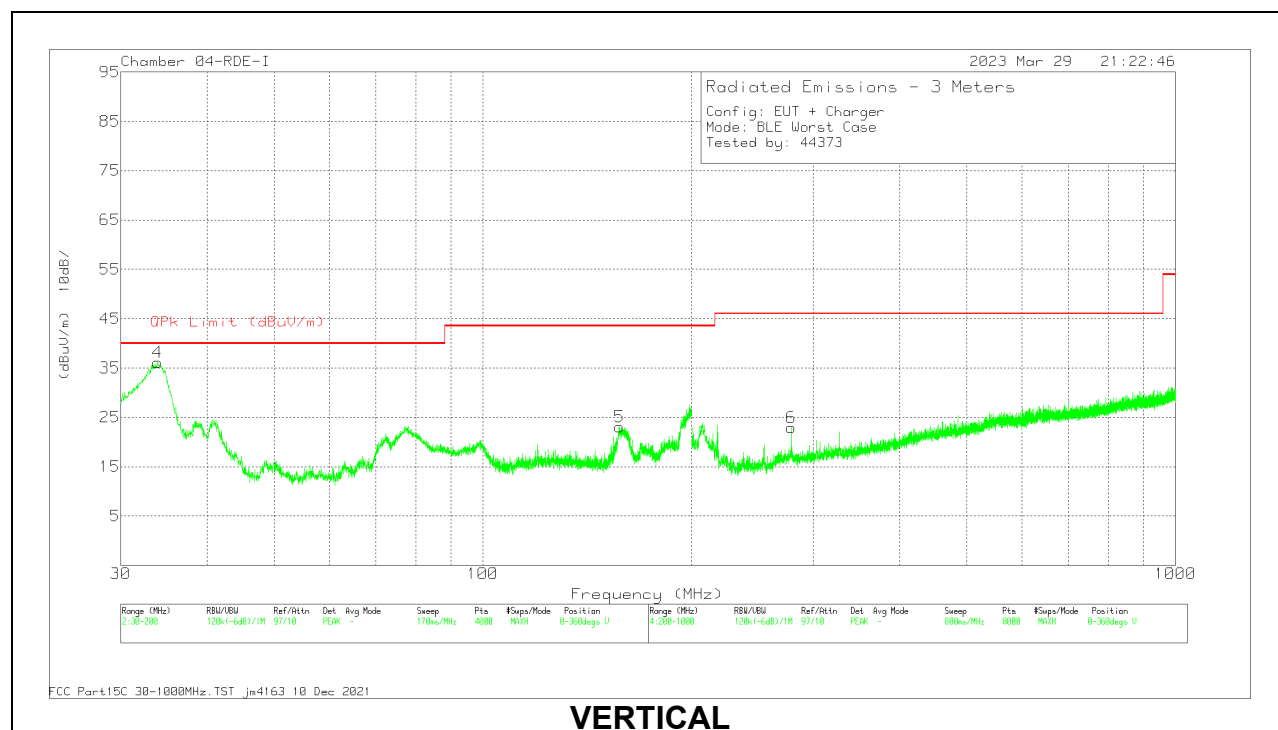
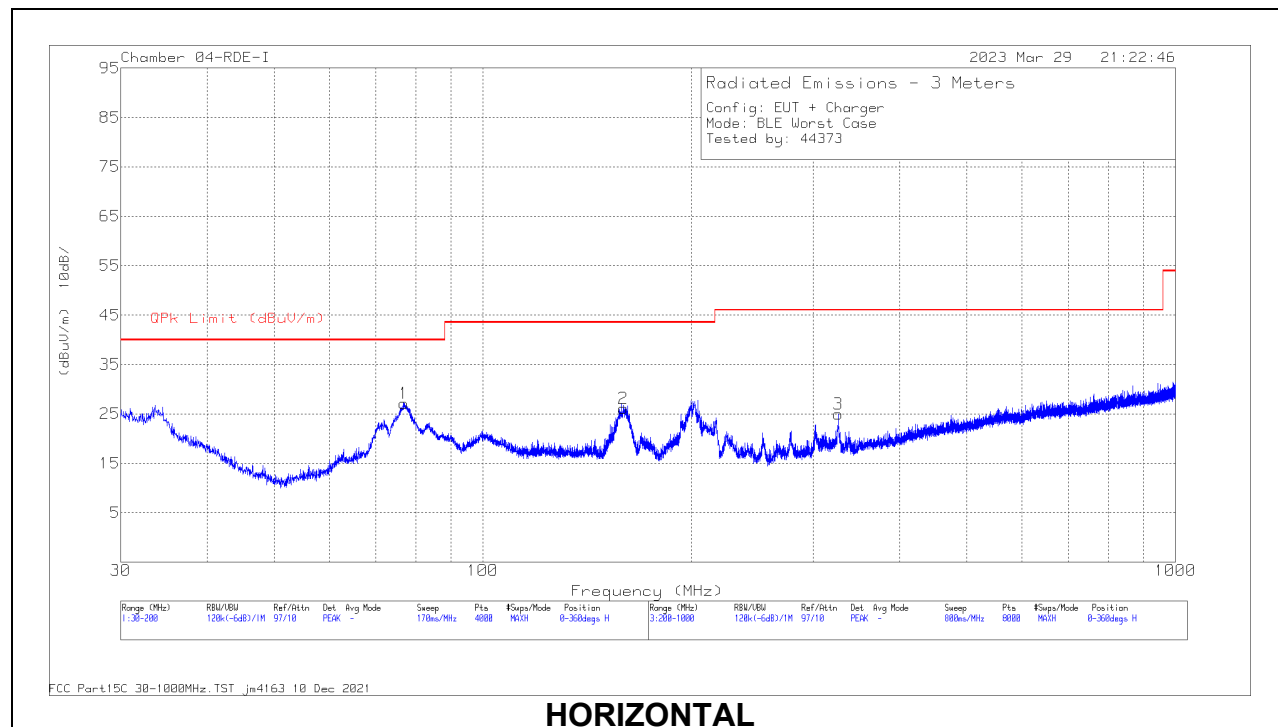
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

10.3. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



DATA

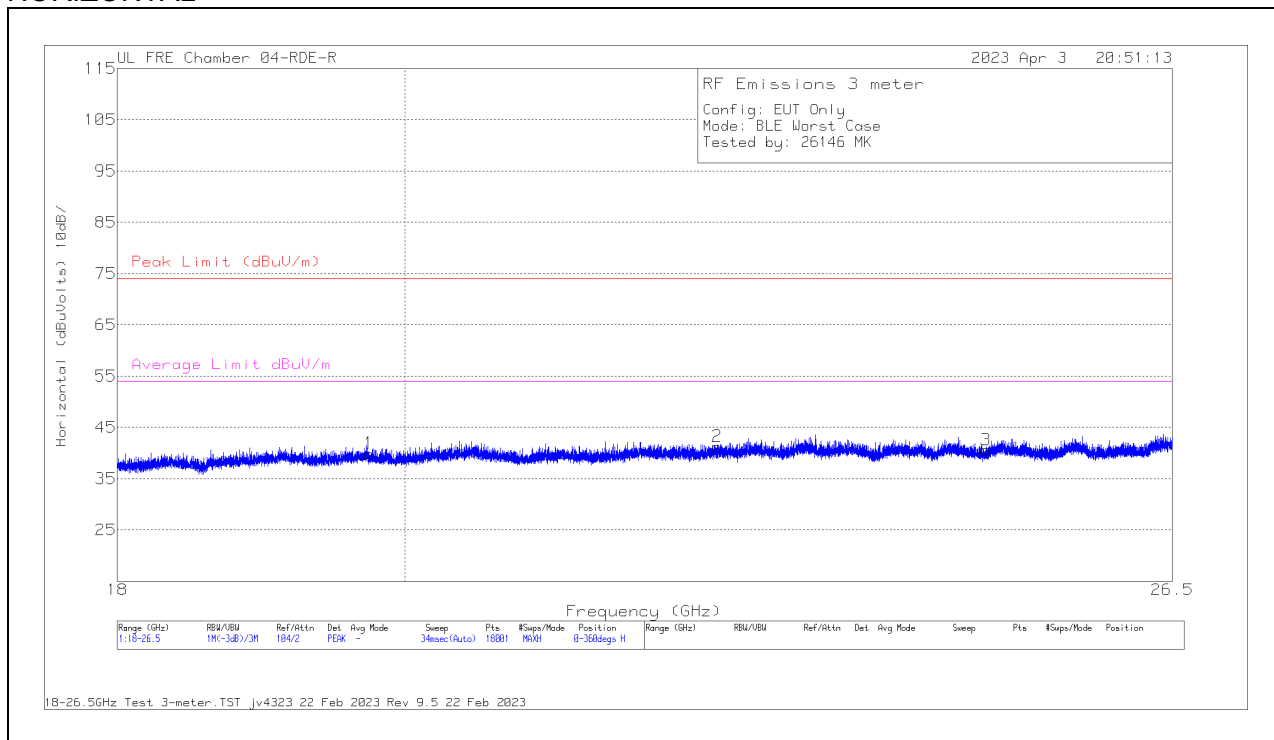
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	80714 ACF (dB) - 10mH	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	76.9321	43.54	Pk	14.4	-30.8	27.14	40	-12.86	0-360	299	H
2	159.403	38.39	Pk	18	-30.3	26.09	43.52	-17.43	0-360	199	H
3	* 325.916	34.62	Pk	19.7	-29.4	24.92	46.02	-21.1	0-360	100	H
4	33.911	42.34	Pk	24.9	-31.1	36.14	40	-3.86	0-360	100	V
	33.7877	38.47	Qp	25	-31.1	32.37	40	-7.63	353	115	V
5	157.576	35.23	Pk	18	-30.2	23.03	43.52	-20.49	0-360	100	V
6	* 278.91	33.49	Pk	19	-29.6	22.89	46.02	-23.13	0-360	199	V

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

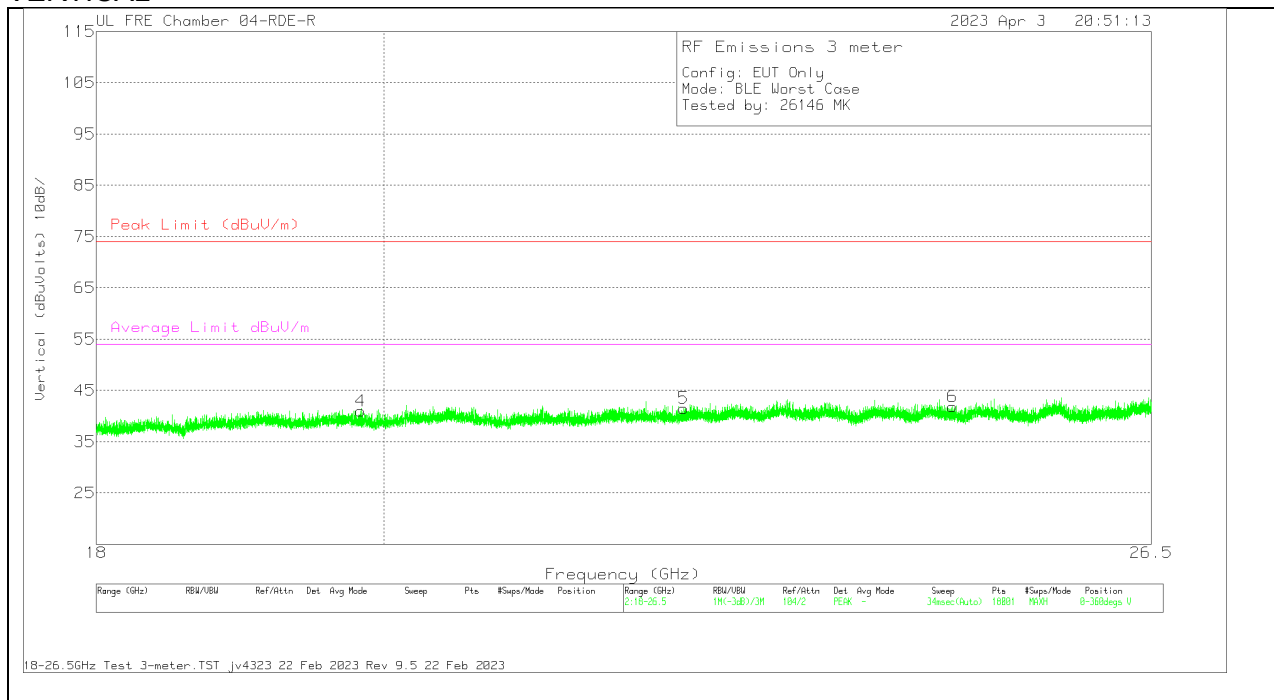
10.4. WORST CASE 18-26 GHz

SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)

HORIZONTAL



VERTICAL



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	172353 ACF (dB) - 3mH	171583 Amp Assembly (dB)	Cables (dB)	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 19.739666	56.32	Pk	33	-65.1	15.7	39.92	74	-34.08	54	-14.08	0-360	100	H
2	* 22.428498	56.27	Pk	33.8	-65.6	16.8	41.27	74	-32.73	54	-12.73	0-360	100	H
3	24.749941	52.79	Pk	34.5	-64.3	17.6	40.59	74	-33.41	54	-13.41	0-360	100	H
4	* 19.832221	57.08	Pk	33	-64.9	15.8	40.98	74	-33.02	54	-13.02	0-360	99	V
5	* 22.323665	56.59	Pk	33.8	-65.6	16.7	41.49	74	-32.51	54	-12.51	0-360	99	V
6	24.638025	54.34	Pk	34.4	-64.5	17.6	41.84	74	-32.16	54	-12.16	0-360	99	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

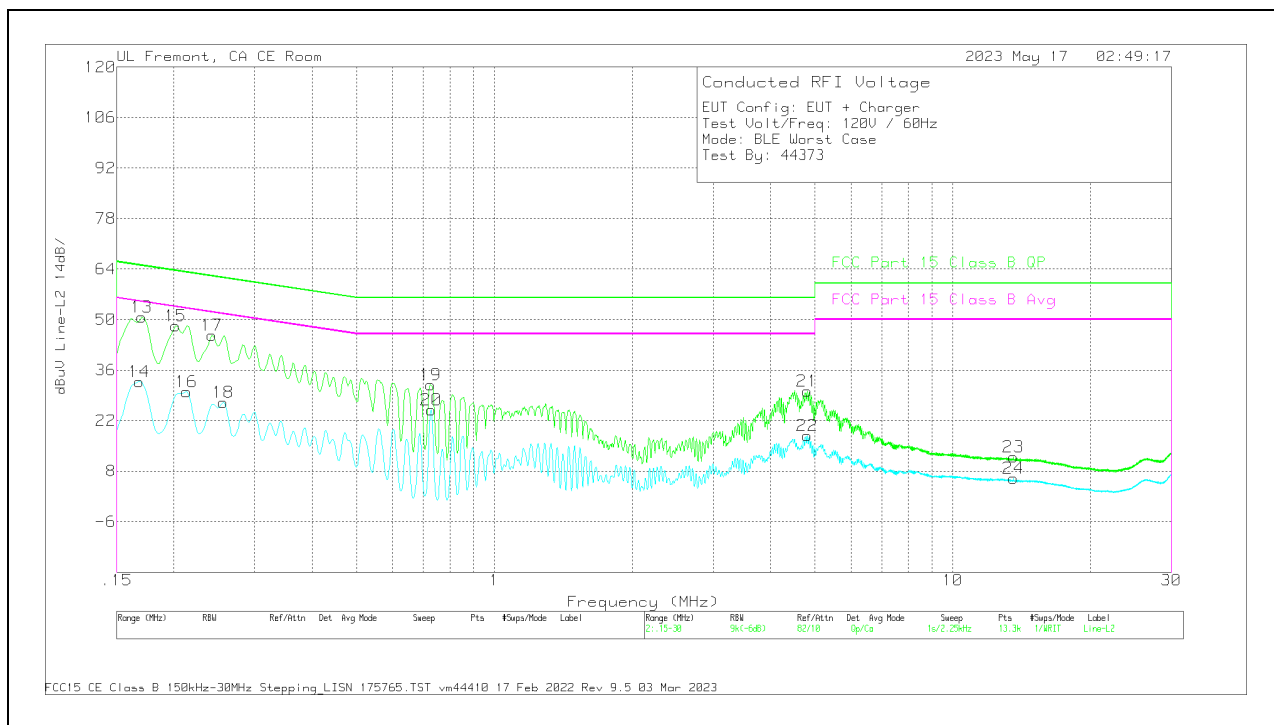
LINE 1 RESULTS



Range 1: Line-L1 15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv dB	C1&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)M argin (dB)
2	.1703	25.3	Ca	0	0	9.4	34.7	-	-	54.95	-20.25
4	.213	22.66	Ca	0	0	9.4	32.06	-	-	53.09	-21.03
6	.2558	19.99	Ca	0	0	9.3	29.29	-	-	51.57	-22.28
8	.726	16.49	Ca	0	.1	9.3	25.89	-	-	46	-20.11
10	4.7715	9.43	Ca	0	.1	9.3	18.83	-	-	46	-27.17
12	13.56	-3.19	Ca	.1	.2	9.3	6.41	-	-	50	-43.59
1	.1703	42.11	Qp	0	0	9.4	51.51	64.95	-13.44	-	-
3	.213	39.64	Qp	0	0	9.4	49.04	63.09	-14.05	-	-
5	.2558	36.82	Qp	0	0	9.3	46.12	61.57	-15.45	-	-
7	.7238	23.66	Qp	0	.1	9.3	33.06	56	-22.94	-	-
9	4.749	21.61	Qp	0	.1	9.3	31.01	56	-24.99	-	-
11	13.56	2.95	Qp	.1	.2	9.3	12.55	60	-47.45	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS

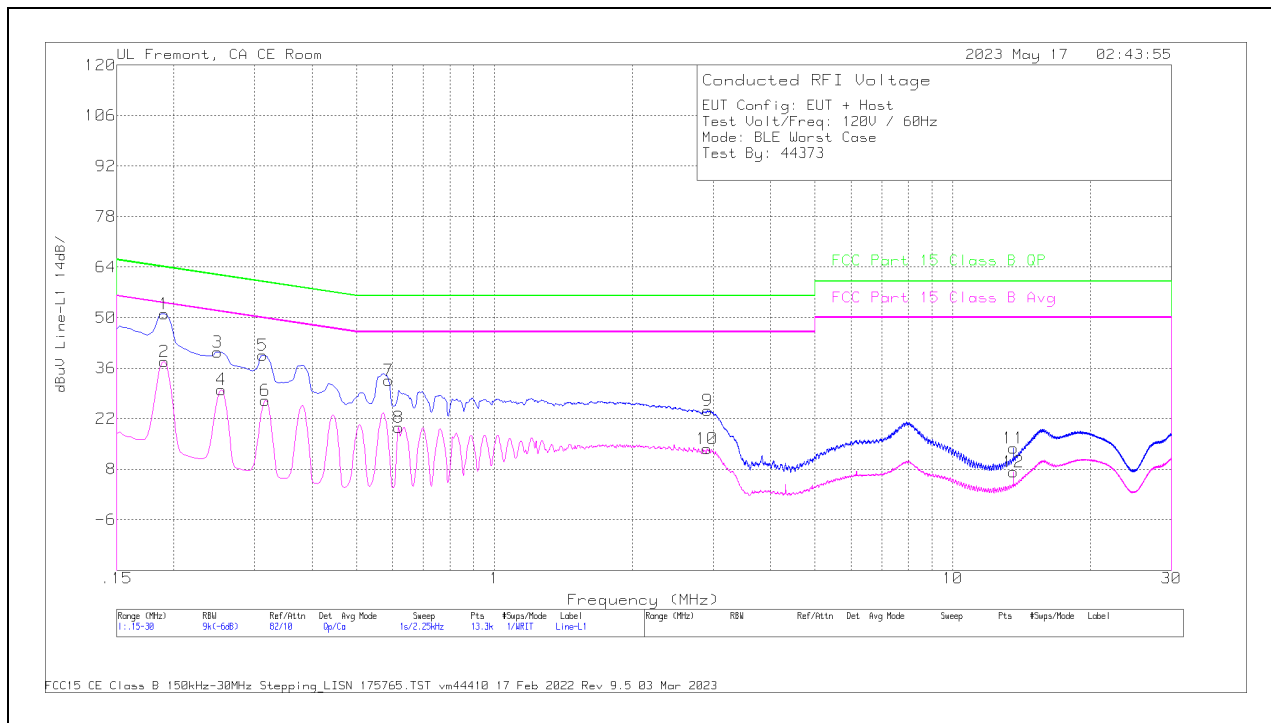


Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBUV)	Det	L2 LISN dB	C2&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBUV	FCC Part 15 Class B QP dBUV	QP Margin (dB)	FCC Part 15 Class B Avg dBUV	Av(CISPR)Margin (dB)
14	.168	23.42	Ca	0	0	9.4	32.82	-	-	55.06	-22.24
16	.213	20.53	Ca	0	0	9.4	29.93	-	-	53.09	-23.16
18	.2558	17.83	Ca	0	0	9.3	27.13	-	-	51.57	-24.44
20	.7283	15.49	Ca	0	.1	9.3	24.89	-	-	46	-21.11
22	4.812	8.47	Ca	0	.1	9.3	17.87	-	-	46	-28.13
24	13.56	-3.52	Ca	.1	.2	9.3	6.08	-	-	50	-43.92
13	.1703	41.27	Qp	0	0	9.4	50.67	64.95	-14.28	-	-
15	.2018	38.85	Qp	0	0	9.4	48.25	63.54	-15.29	-	-
17	.2423	36.35	Qp	0	0	9.3	45.65	62.02	-16.37	-	-
19	.726	22.52	Qp	0	.1	9.3	31.92	56	-24.08	-	-
21	4.8165	20.72	Qp	0	.1	9.3	30.12	56	-25.88	-	-
23	13.56	2.34	Qp	.1	.2	9.3	11.94	60	-48.06	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.2. AC Power Line With Laptop

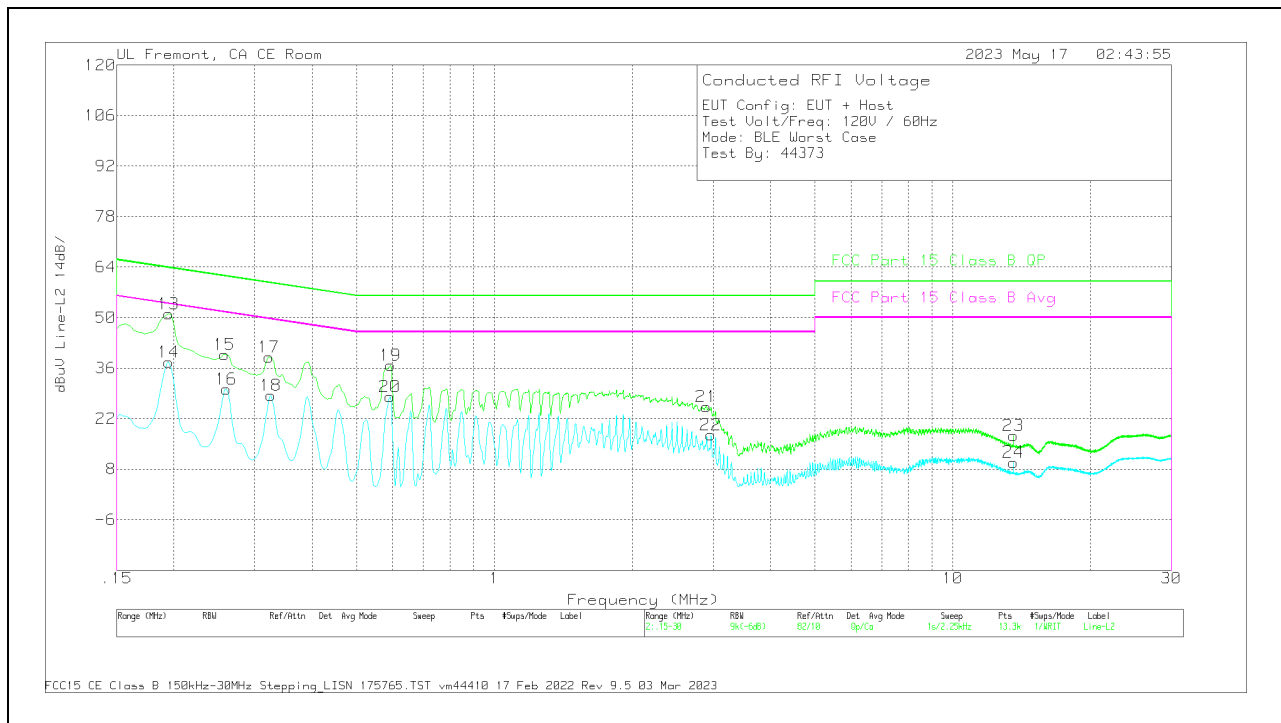
LINE 1 RESULTS



Range 1: Line-L1_15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv dB	C1&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR)Margin (dB)
2	.1905	28.46	Ca	0	0	9.4	37.86	-	-	54.01	-16.15
4	.2535	20.79	Ca	0	0	9.3	30.09	-	-	51.64	-21.55
6	.3165	17.74	Ca	0	0	9.3	27.04	-	-	49.8	-22.76
8	.618	10.24	Ca	0	.1	9.3	19.64	-	-	46	-26.36
10	2.9108	4.31	Ca	0	.1	9.3	13.71	-	-	46	-32.29
12	13.56	-2.41	Ca	.1	.2	9.3	7.19	-	-	50	-42.81
1	.1905	41.68	Qp	0	0	9.4	51.08	64.01	-12.93	-	-
3	.249	31.12	Qp	0	0	9.3	40.42	61.79	-21.37	-	-
5	.312	30.2	Qp	0	0	9.3	39.5	59.92	-20.42	-	-
7	.5888	23.25	Qp	0	.1	9.3	32.65	56	-23.35	-	-
9	2.9153	14.81	Qp	0	.1	9.3	24.21	56	-31.79	-	-
11	13.56	4.28	Qp	.1	.2	9.3	13.88	60	-46.12	-	-

Qp - Quasi-Peak detector
Ca - CISPR average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2_LISN dB	C2&C3 cable path loss dB	207996 Limiter with short cabl dB	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR) Margin (dB)	
14	.195	28.2	Ca	0	0	9.4	37.6	-	-	53.82	-16.22	
16	.2603	20.94	Ca	0	0	9.3	30.24	-	-	51.42	-21.18	
18	.3255	19.07	Ca	0	0	9.3	28.37	-	-	49.57	-21.2	
20	.591	18.67	Ca	0	.1	9.3	28.07	-	-	46	-17.93	
22	2.9693	8.09	Ca	0	.1	9.3	17.49	-	-	46	-28.51	
24	13.56	.33	Ca	.1	.2	9.3	9.93	-	-	50	-40.07	
13	.195	41.68	Qp	0	0	9.4	51.08	63.82	-12.74	-	-	
15	.258	30.46	Qp	0	0	9.3	39.76	61.5	-21.74	-	-	
17	.3221	29.7	Qp	0	0	9.3	39	59.65	-20.65	-	-	
19	.5933	27.35	Qp	0	.1	9.3	36.75	56	-19.25	-	-	
21	2.904	15.96	Qp	0	.1	9.3	25.36	56	-30.64	-	-	
23	13.56	7.77	Qp	.1	.2	9.3	17.37	60	-42.63	-	-	

Qp - Quasi-Peak detector
Ca - CISPR average detection

12. SETUP PHOTOS

Please refer to 14523771-EP1V1 for setup photos

END OF TEST REPORT