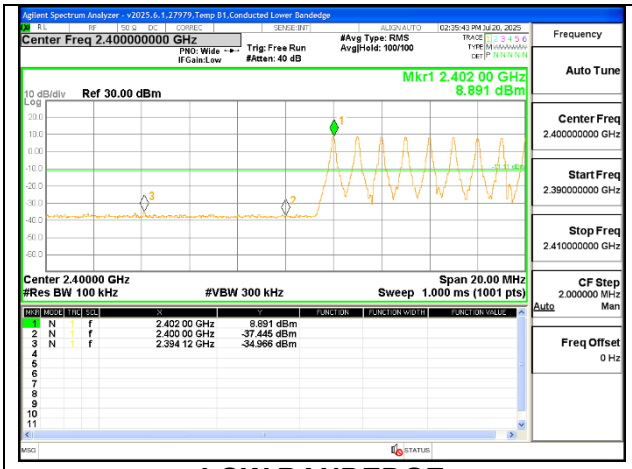
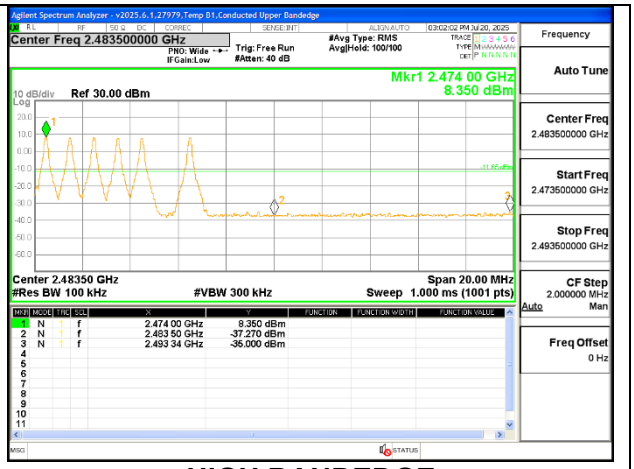
ANT 1 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



LOW BANDEDGE

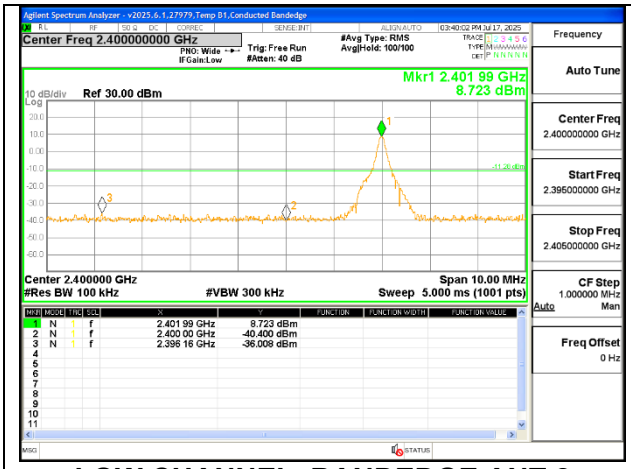


HIGH BANDEDGE

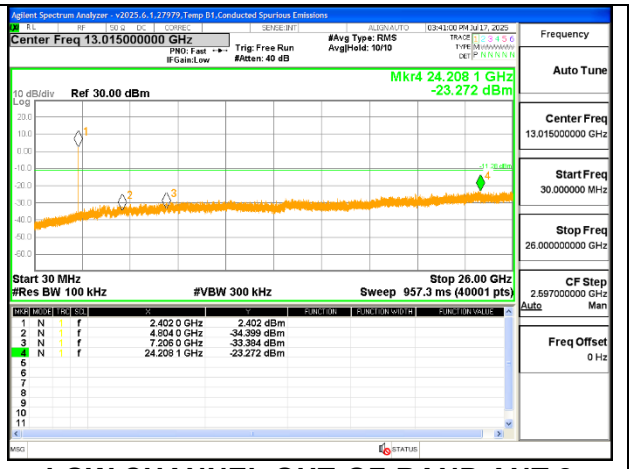
9.8.12. LOW POWER ENHANCED DATA RATE TXBF BTCSM2 MODULATION

Note: Test procedure on beamforming mode is same as BT basic and EDR mode

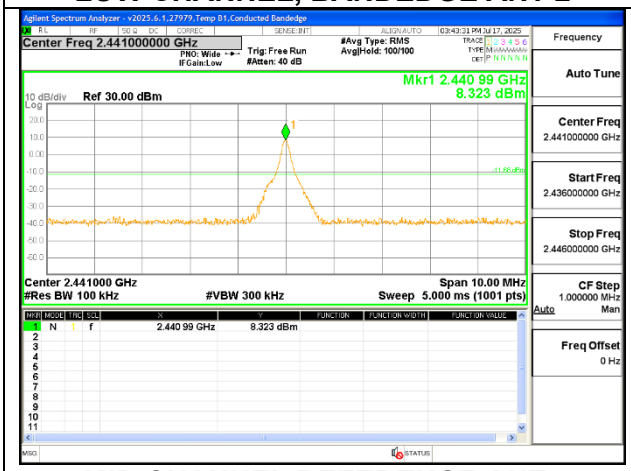
ANT 2



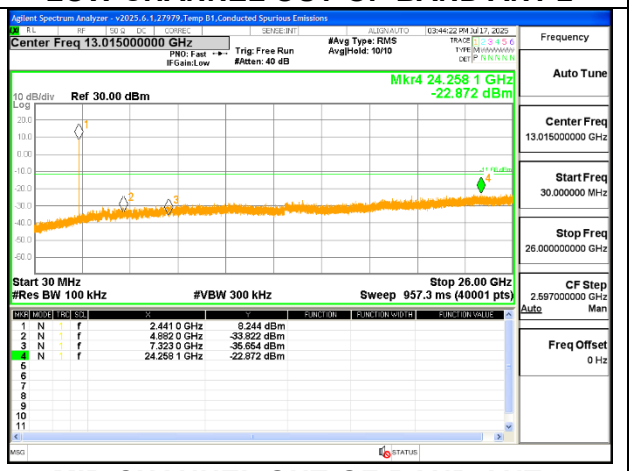
LOW CHANNEL, BANDEDGE ANT 2



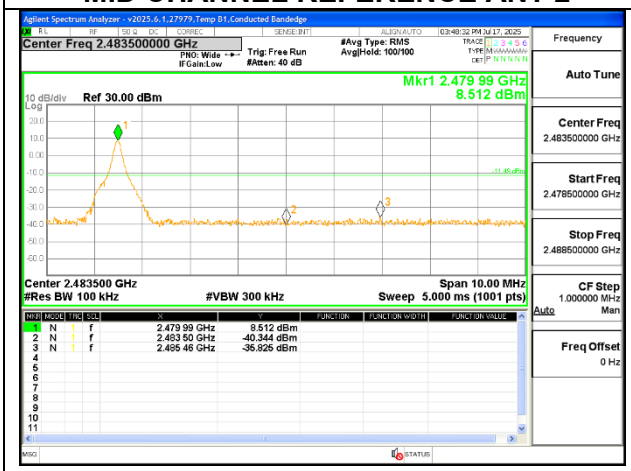
LOW CHANNEL OUT-OF-BAND ANT 2



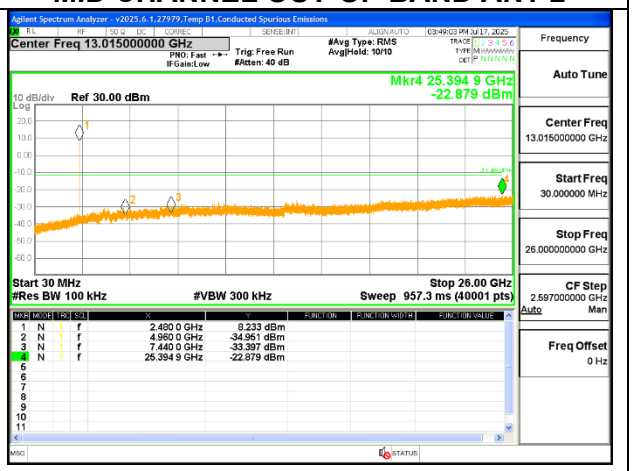
MID CHANNEL REFERENCE ANT 2



MID CHANNEL OUT-OF-BAND ANT 2



HIGH CHANNEL BANDEDGE ANT 2



HIGH CHANNEL OUT-OF-BAND ANT 2

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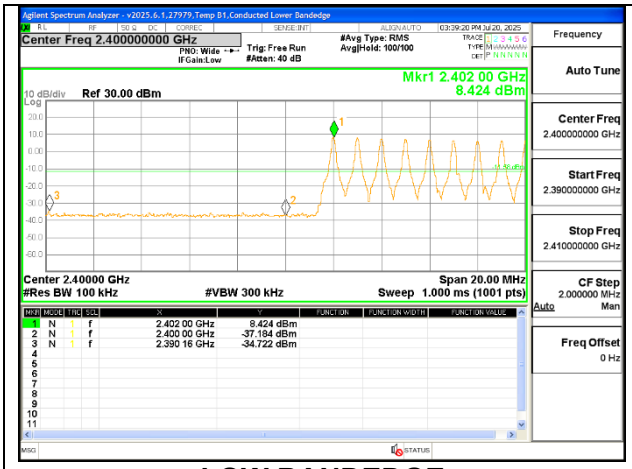
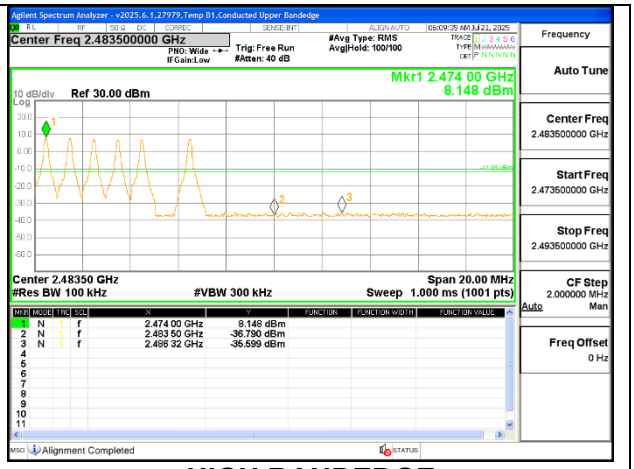
ANT 2 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



LOW BANDEDGE



HIGH BANDEDGE

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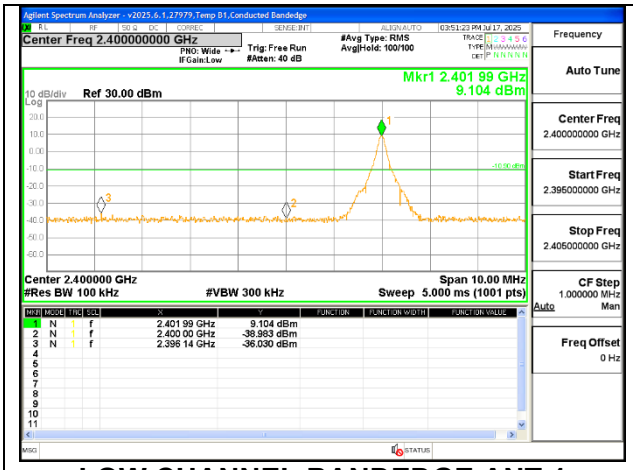
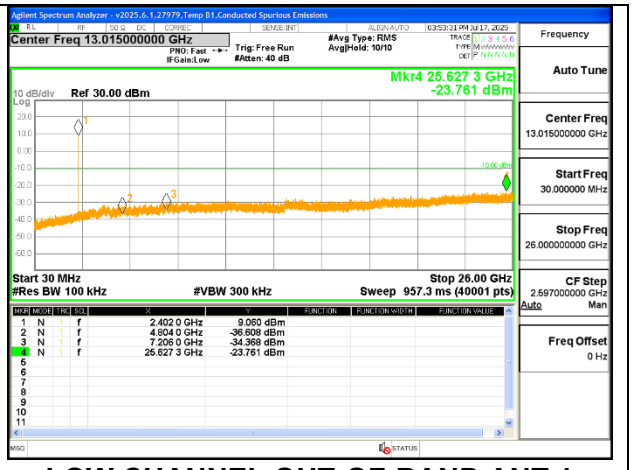
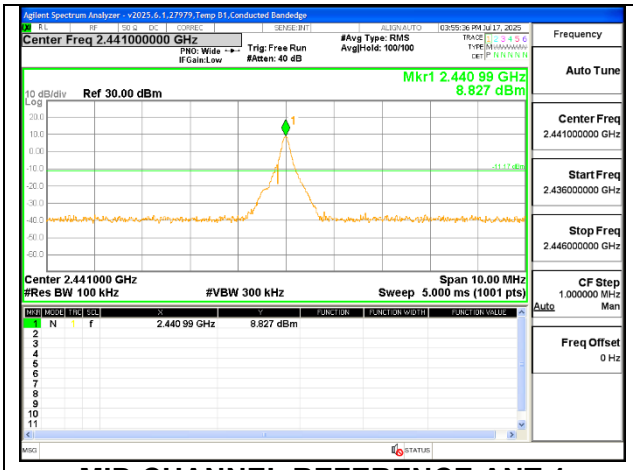
ANT 1



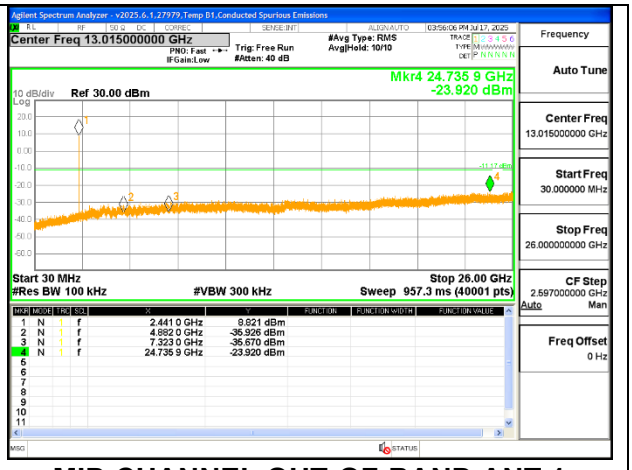
LOW CHANNEL BANDEDGE ANT 1



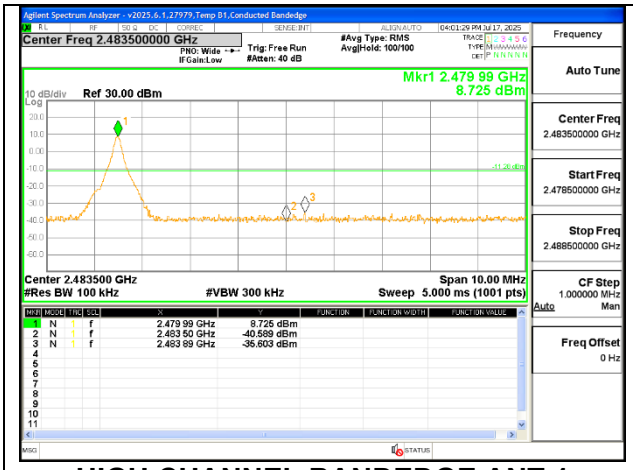
LOW CHANNEL OUT-OF-BAND ANT 1



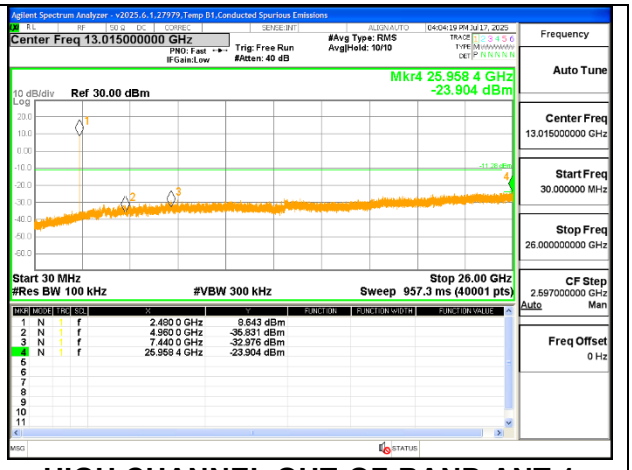
MID CHANNEL REFERENCE ANT 1



MID CHANNEL OUT-OF-BAND ANT 1



HIGH CHANNEL BANDEDGE ANT 1



HIGH CHANNEL OUT-OF-BAND ANT 1

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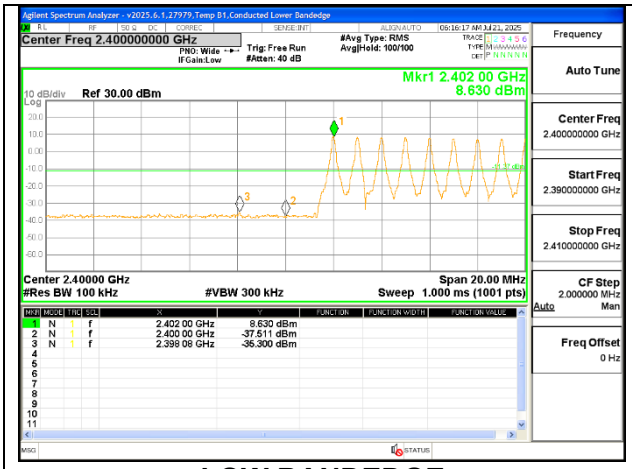
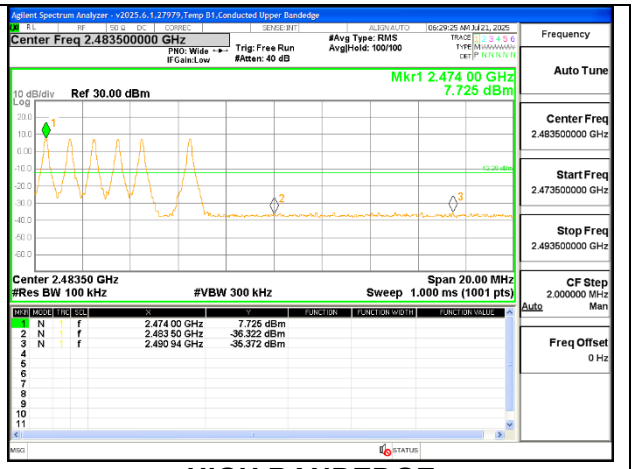
ANT 1 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



LOW BANDEDGE



HIGH BANDEDGE

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. 1MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements where the actual VBW set for tests are as follows:
Bluetooth GFSK/8PSK:500Hz; BTCSM2: 30kHz

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.

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For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only. Blue color trace on plots: Parallel orientation. Green color trace on plots: Perpendicular orientation.

Note: The limits in CFR 47, Part 5, 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 electrical field strength levels (as report in the table) using free space impedance of 377Ohms. For example, the measurement of 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 margins, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

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.

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

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

KDB 558074 D01 15.247 Meas Guidance

Use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector. Note that Section 15.35(c) specifies that the DCCF shall represent the worst-case (greatest duty cycle) over any 100 msec transmission period.

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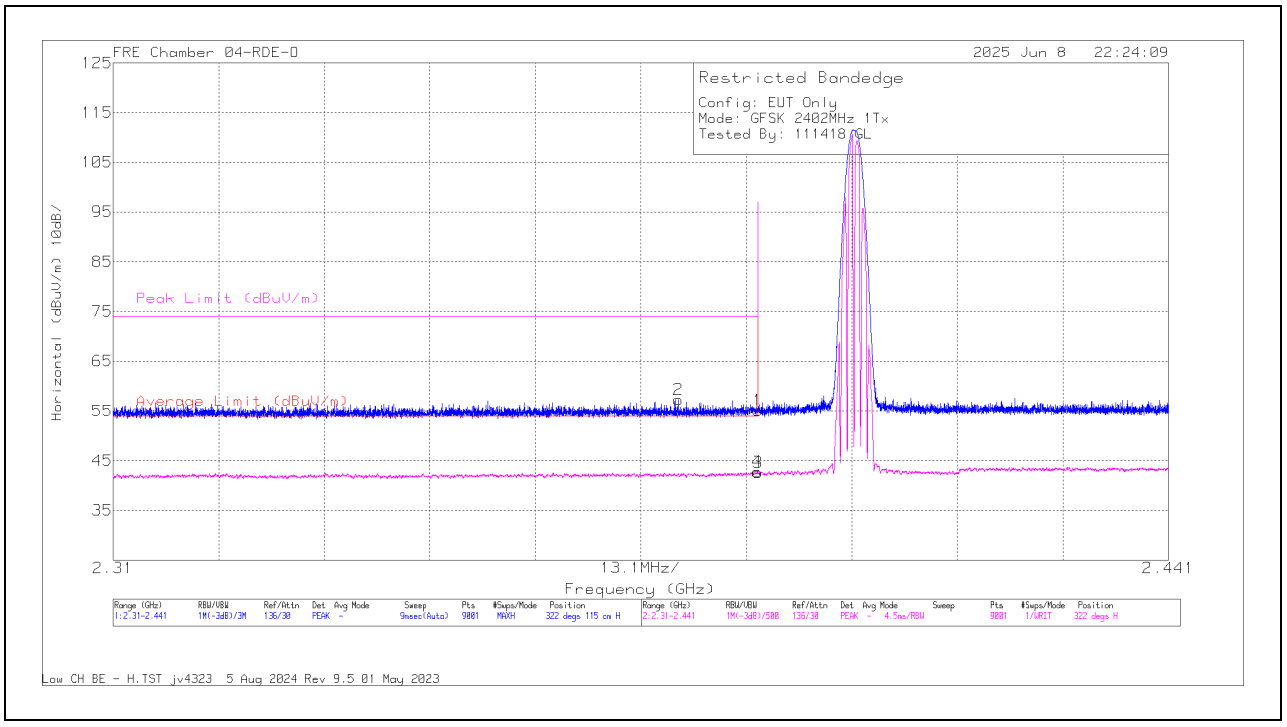
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

ANT 2

BANDEDGE (LOW CHANNEL)

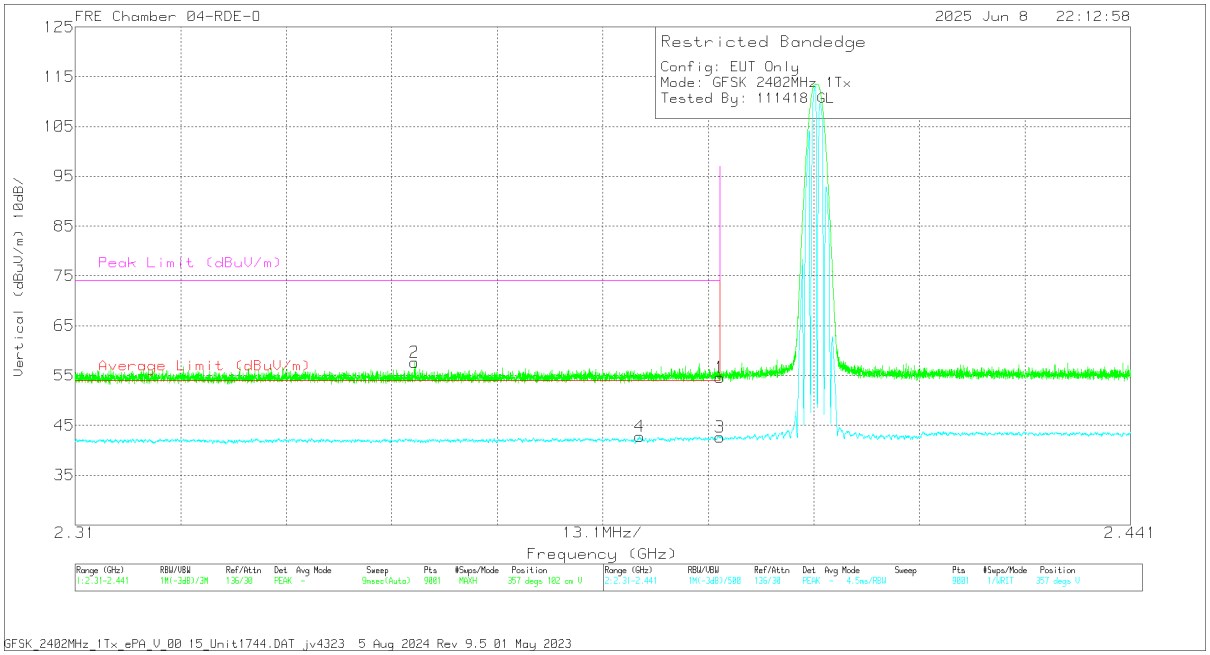
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.14	Pk	32.1	-37.08	55.16	-	-	74	-18.84	322	115	H
2	* 2.38016	62.46	Pk	32	-37.15	57.31	-	-	74	-16.69	322	115	H
3	* 2.39	47.67	VA1T	32.1	-37.08	42.69	54	-11.31	-	-	322	115	H
4	* 2.389985	47.75	VA1T	32.1	-37.08	42.77	54	-11.23	-	-	322	115	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.58	Pk	32.1	-37.08	54.6	-	-	74	-19.4	357	102	V
2	* 2.352111	62.99	Pk	31.8	-37.09	57.7	-	-	74	-16.3	357	102	V
3	* 2.39	47.58	VA1T	32.1	-37.08	42.6	54	-11.4	-	-	357	102	V
4	* 2.380043	47.9	VA1T	32	-37.15	42.75	54	-11.25	-	-	357	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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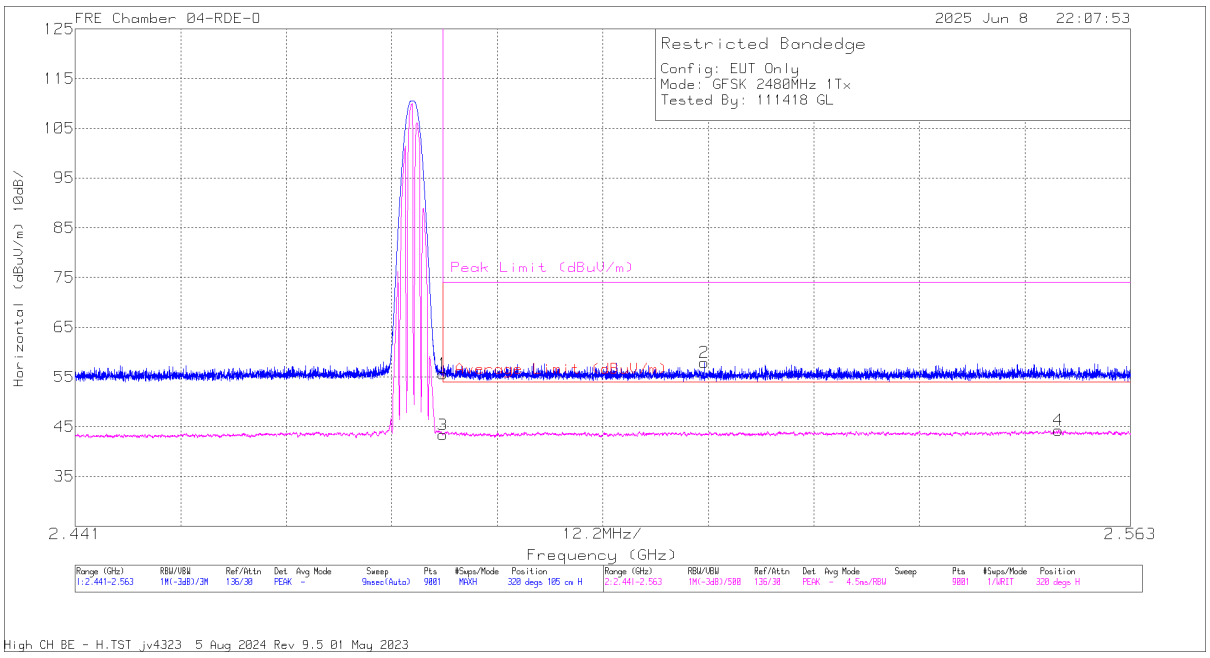
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.24	Pk	32.3	-36.91	55.63	-	-	74	-18.37	320	105	H
3	* 2.4835	47.95	VA1T	32.3	-36.91	43.34	54	-10.66	-	-	320	105	H
2	*2.513728	62.37	Pk	32.4	-36.87	57.9	-	-	74	-16.1	320	105	H
4	*2.554694	48.64	VA1T	32.4	-36.74	44.3	54	-9.7	-	-	320	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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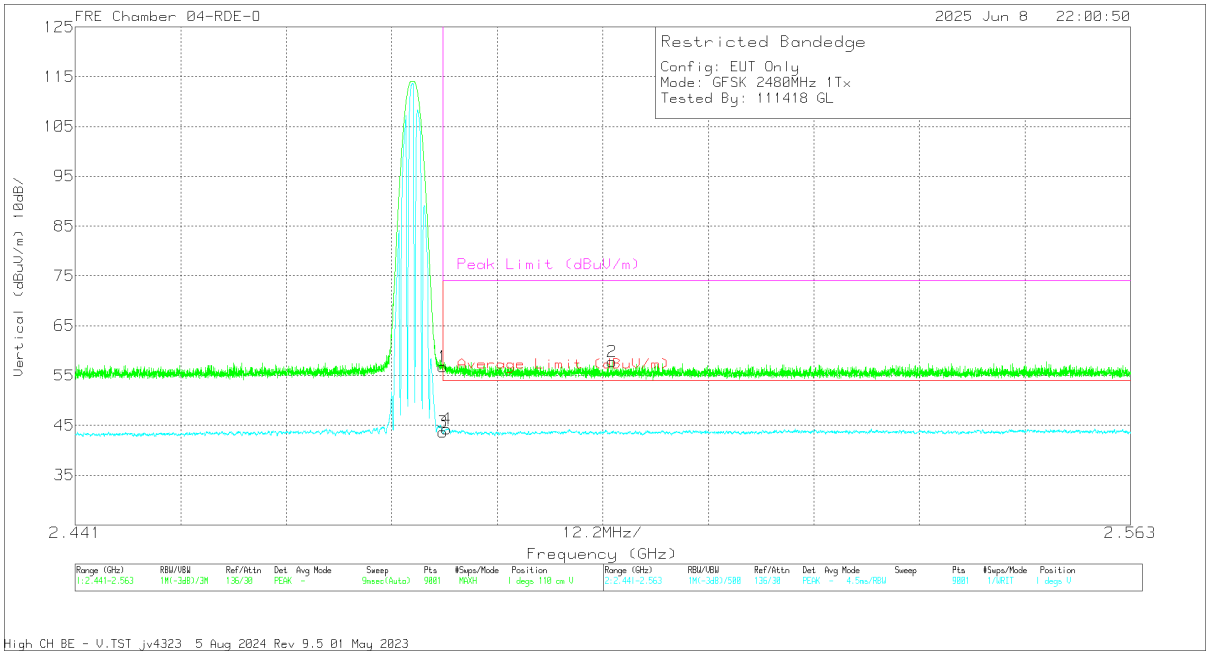
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.34	Pk	32.3	-36.91	56.73	-	-	74	-17.27	1	110	V
3	* 2.4835	48.22	VA1T	32.3	-36.91	43.61	54	-10.39	-	-	1	110	V
4	* 2.483959	48.92	VA1T	32.3	-36.9	44.32	54	-9.68	-	-	1	110	V
2	*2.503073	62.35	Pk	32.4	-36.94	57.81	-	-	74	-16.19	1	110	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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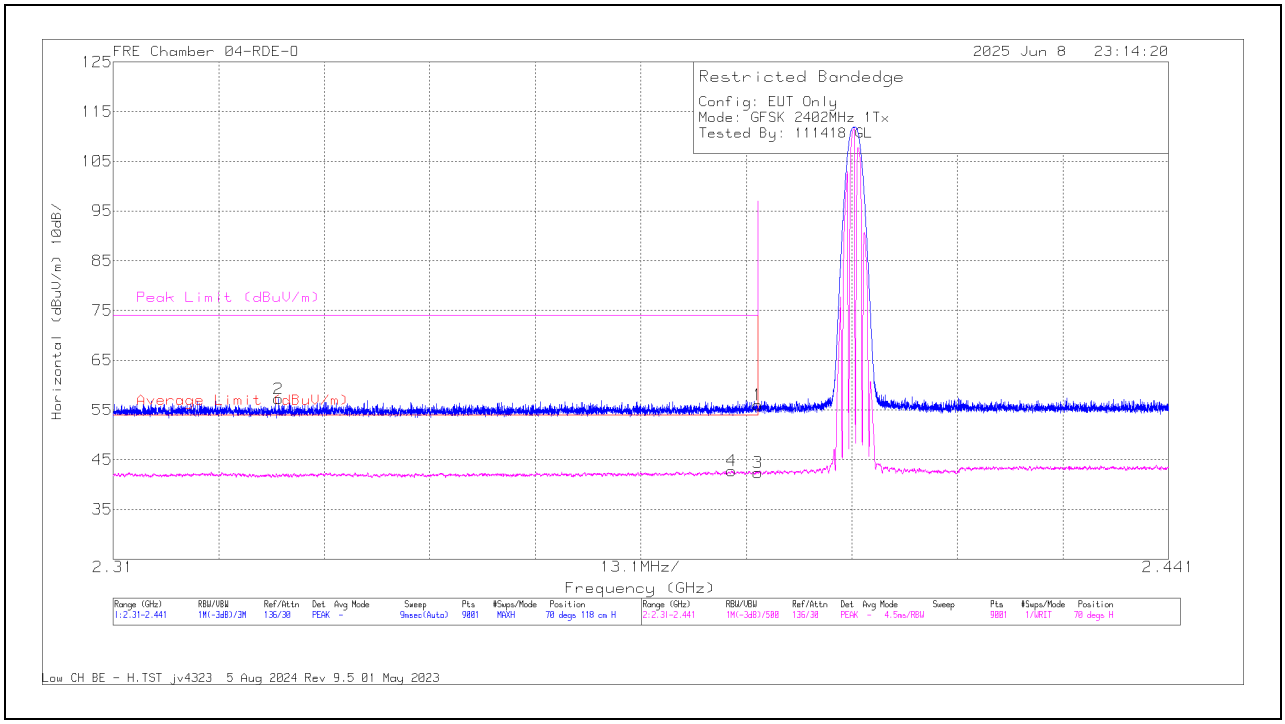
ANT 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.94	Pk	32.1	-37.08	55.96	-	-	74	-18.04	70	118	H
2	* 2.330553	62.48	Pk	31.8	-37.07	57.21	-	-	74	-16.79	70	118	H
3	* 2.39	47.4	VA1T	32.1	-37.08	42.42	54	-11.58	-	-	70	118	H
4	* 2.386783	47.73	VA1T	32.1	-37.1	42.73	54	-11.27	-	-	70	118	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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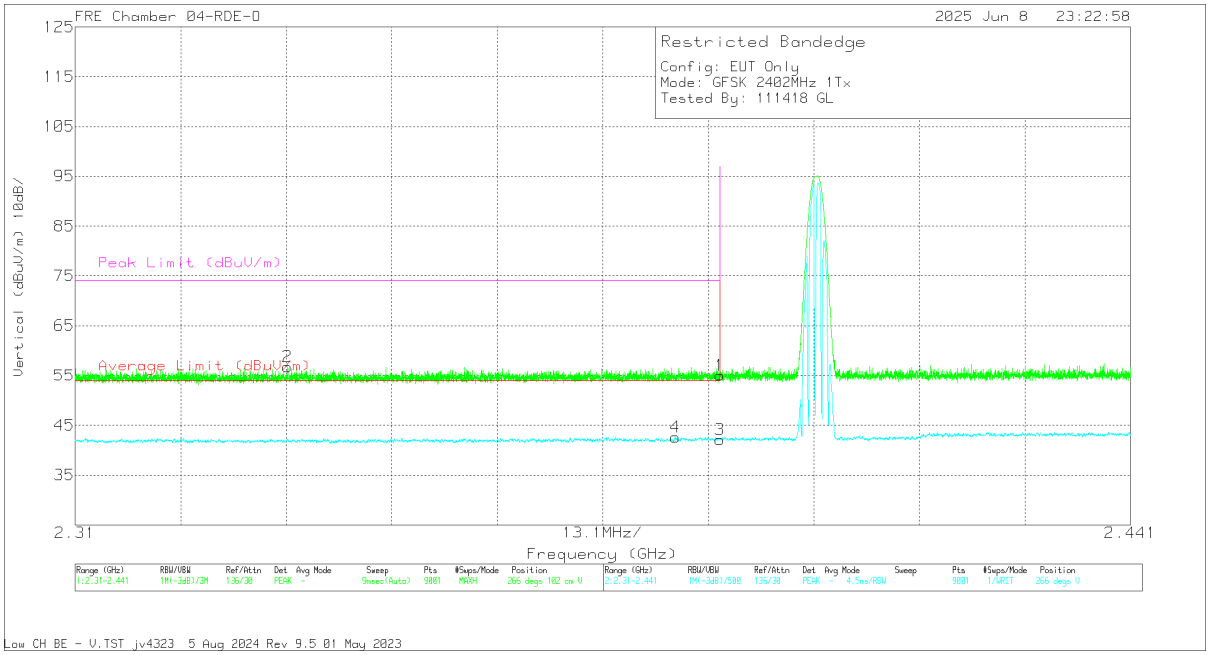
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.04	Pk	32.1	-37.08	55.06	-	-	74	-18.94	266	102	V
2	* 2.336346	61.94	Pk	31.8	-36.96	56.78	-	-	74	-17.22	266	102	V
3	* 2.39	47.15	VA1T	32.1	-37.08	42.17	54	-11.83	-	-	266	102	V
4	* 2.384498	47.73	VA1T	32	-37.13	42.6	54	-11.4	-	-	266	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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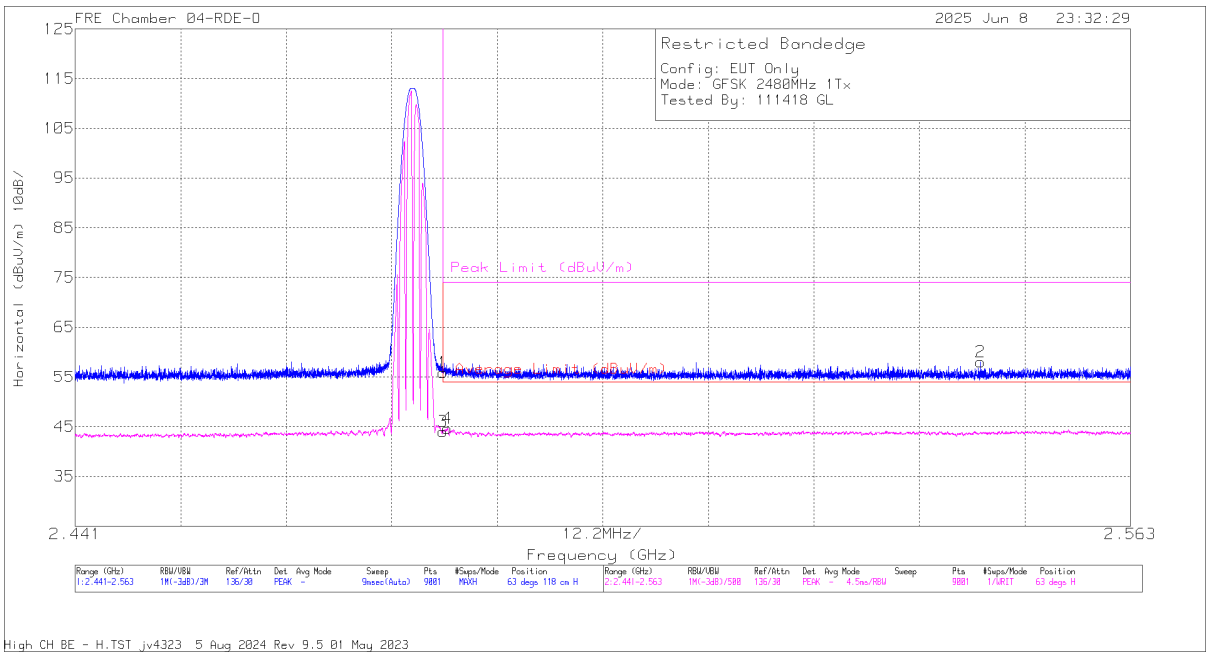
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.51	Pk	32.3	-36.91	55.9	-	-	74	-18.1	63	118	H
3	* 2.4835	48.64	VA1T	32.3	-36.91	44.03	54	-9.97	-	-	63	118	H
4	* 2.484054	49.25	VA1T	32.3	-36.9	44.65	54	-9.35	-	-	63	118	H
2	*2.545693	62.49	Pk	32.4	-36.85	58.04	-	-	74	-15.96	63	118	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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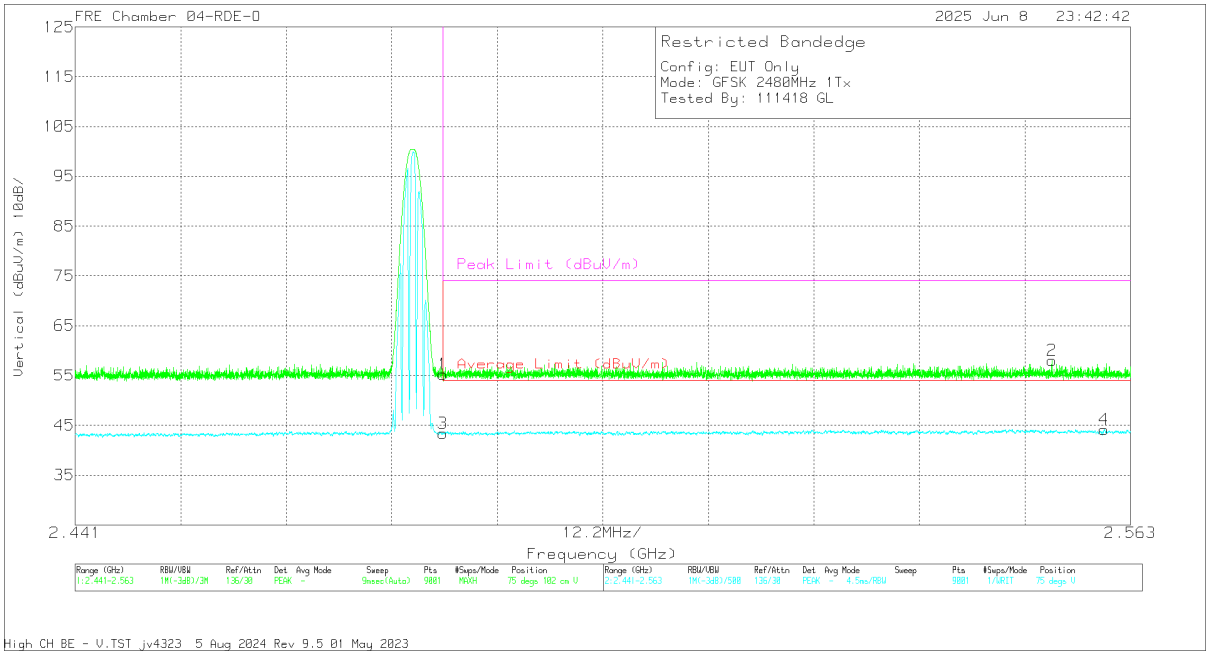
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.83	Pk	32.3	-36.91	55.22	-	-	74	-18.78	75	102	V
3	* 2.4835	48	VA1T	32.3	-36.91	43.39	54	-10.61	-	-	75	102	V
2	*2.553908	62.31	Pk	32.4	-36.73	57.98	-	-	74	-16.02	75	102	V
4	*2.559981	48.63	VA1T	32.4	-36.83	44.2	54	-9.8	-	-	75	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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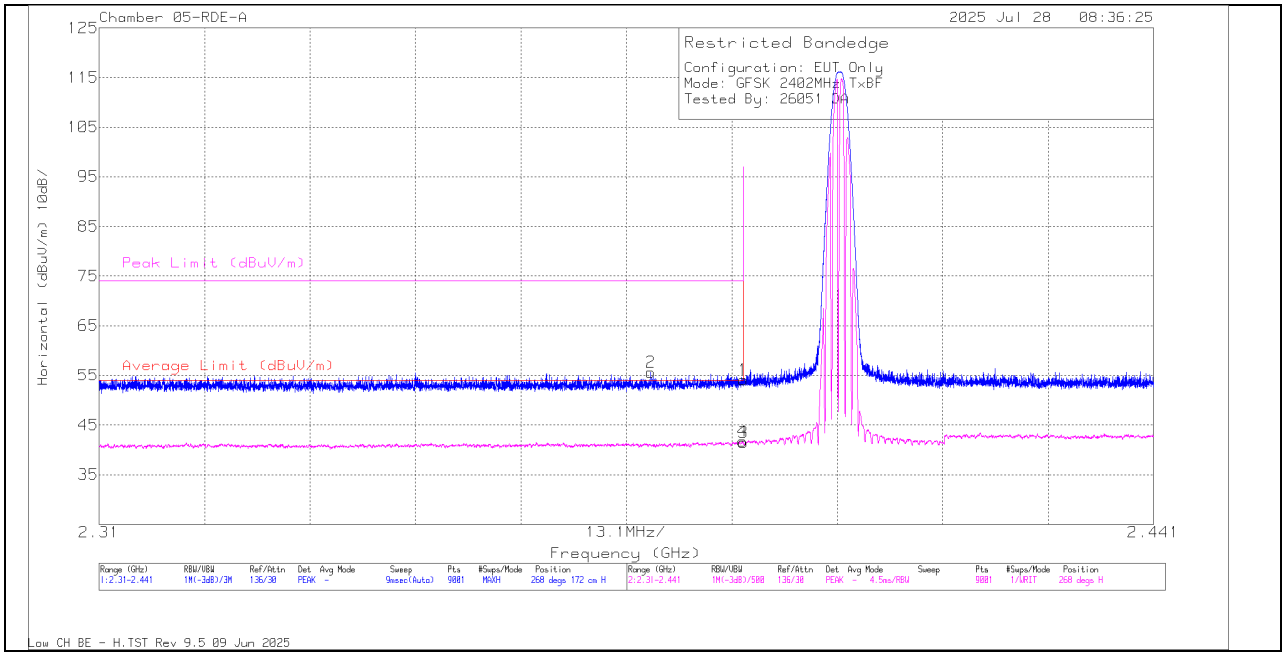
10.1.2. HIGH POWER BASIC DATA RATE TX BF GFSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.98	Pk	32.6	-39.5	54.08	-	-	74	-19.92	268	172	H
2	* 2.378559	62.58	Pk	32.6	-39.6	55.58	-	-	74	-18.42	268	172	H
3	* 2.39	48.35	VA1T	32.6	-39.5	41.45	54	-12.55	-	-	268	172	H
4	* 2.389942	48.6	VA1T	32.6	-39.5	41.7	54	-12.3	-	-	268	172	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

UL VERIFICATION SERVICES INC.
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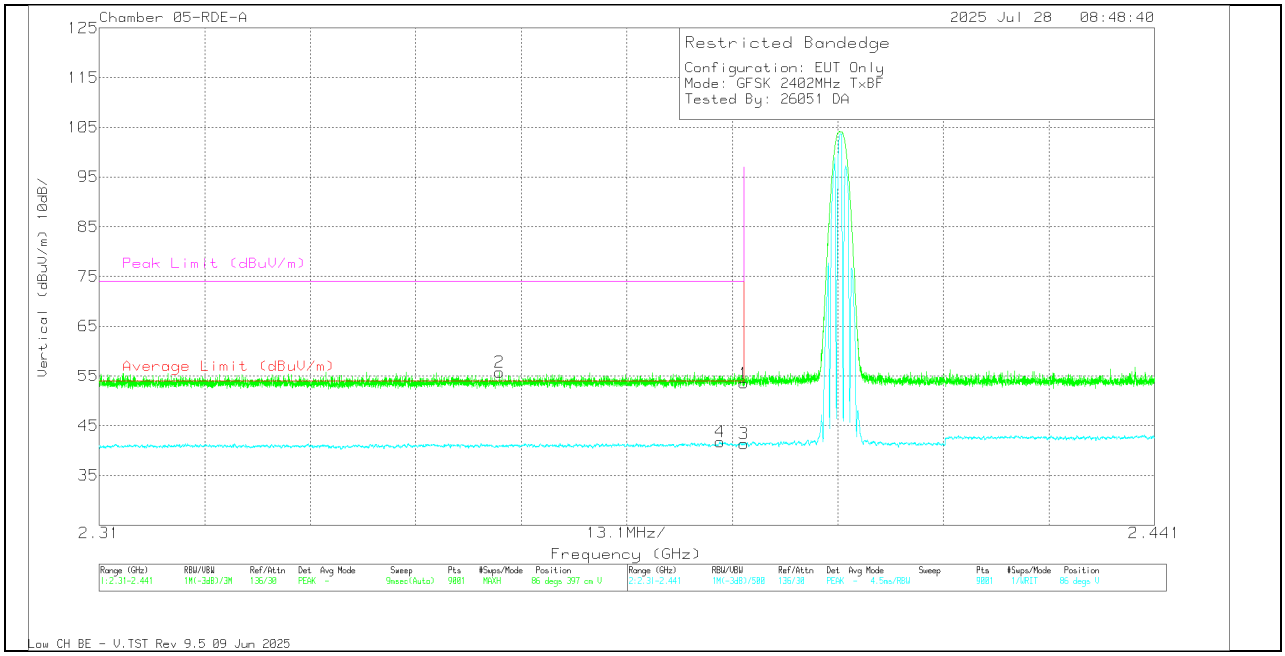
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.44	Pk	32.6	-39.5	53.54	-	-	74	-20.46	86	397	V
2	* 2.359709	62.96	Pk	32.5	-39.7	55.76	-	-	74	-18.24	86	397	V
3	* 2.39	48.23	VA1T	32.6	-39.5	41.33	54	-12.67	-	-	86	397	V
4	* 2.387045	48.54	VA1T	32.6	-39.4	41.74	54	-12.26	-	-	86	397	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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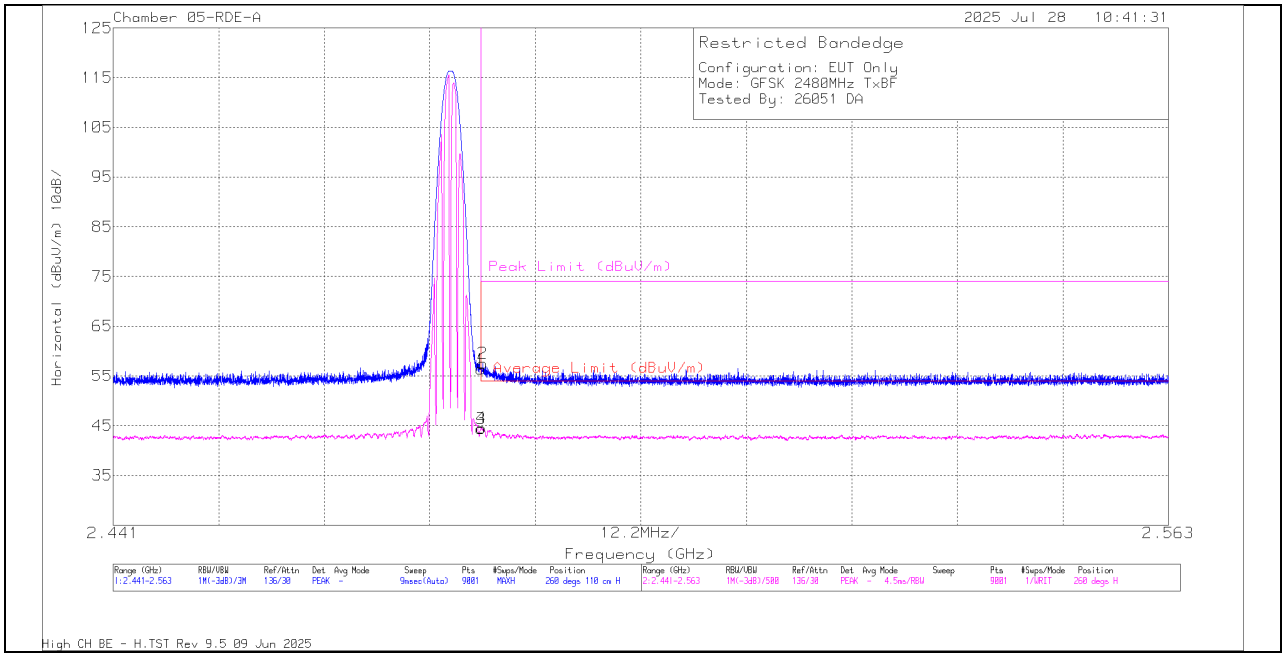
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

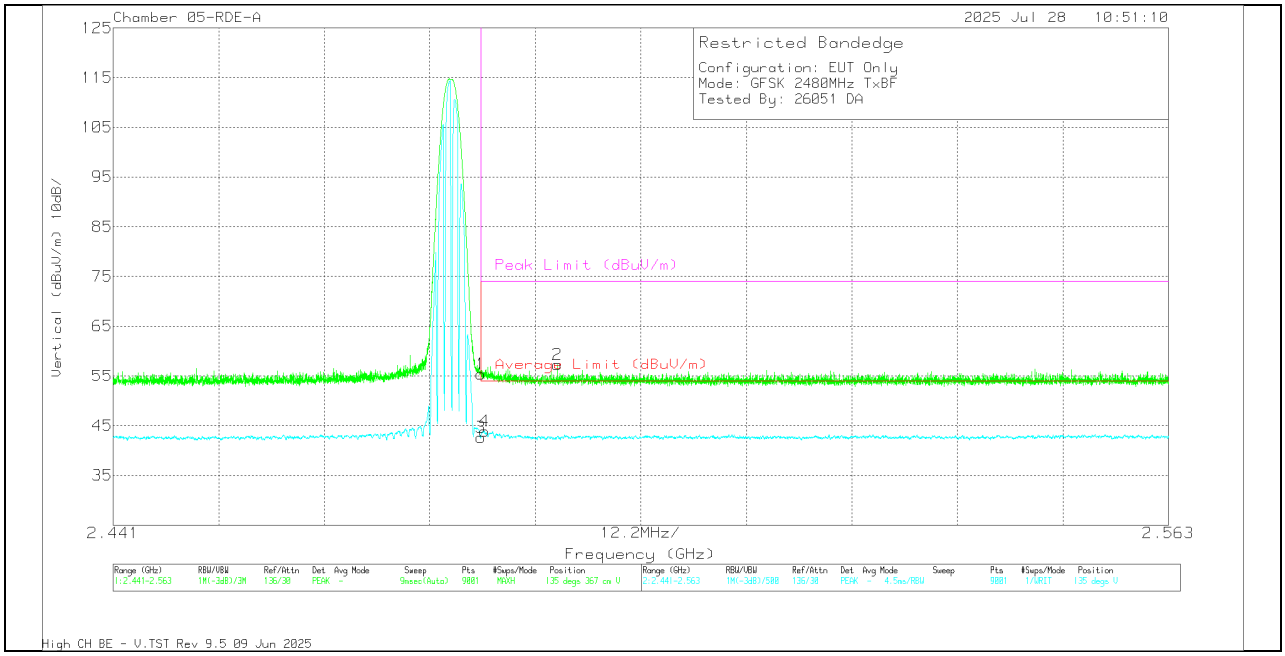


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	63.03	Pk	32.7	-39.4	56.33	-	-	74	-17.67	260	110	H
2	* 2.483742	64.25	Pk	32.7	-39.4	57.55	-	-	74	-16.45	260	110	H
3	* 2.4835	51.08	VA1T	32.7	-39.4	44.38	54	-9.62	-	-	260	110	H
4	* 2.483593	51.27	VA1T	32.7	-39.4	44.57	54	-9.43	-	-	260	110	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	62.11	Pk	32.7	-39.4	55.41	-	-	74	-18.59	135	367	V
2	* 2.49235	64.07	Pk	32.7	-39.46	57.31	-	-	74	-16.69	135	367	V
3	* 2.4835	49.34	VA1T	32.7	-39.4	42.64	54	-11.36	-	-	135	367	V
4	* 2.483932	50.61	VA1T	32.7	-39.4	43.91	54	-10.09	-	-	135	367	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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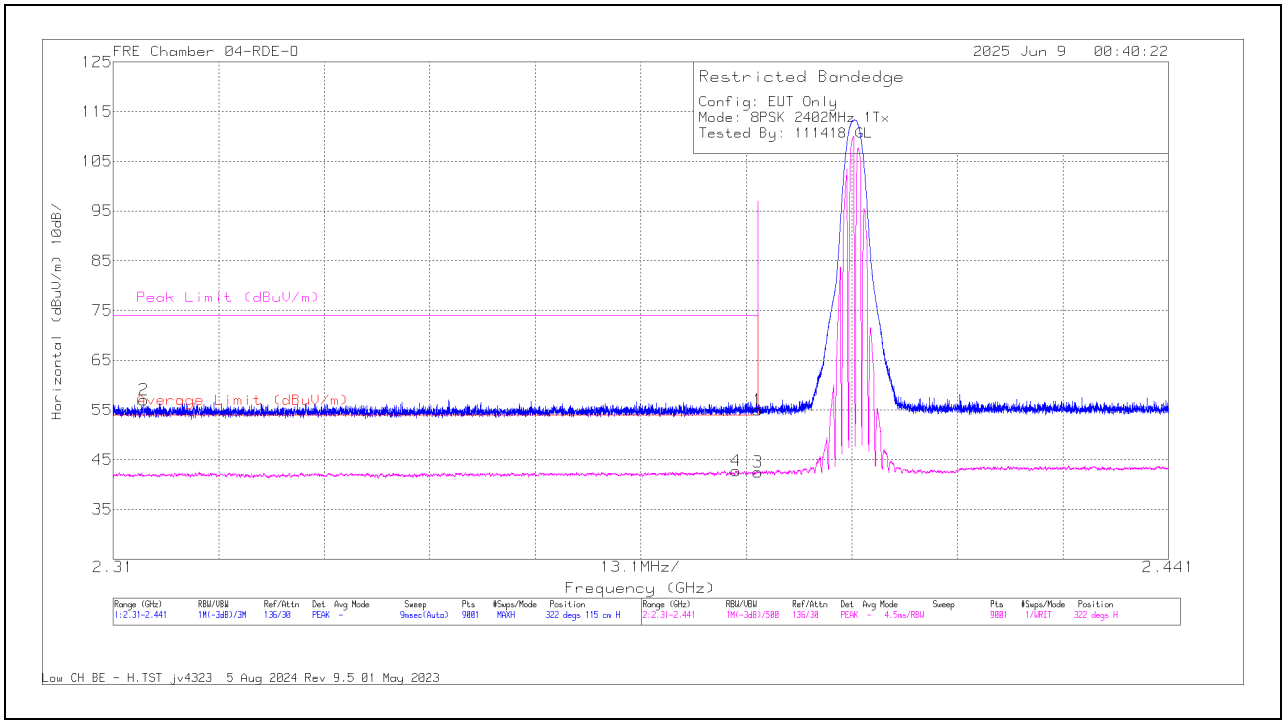
10.1.3. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

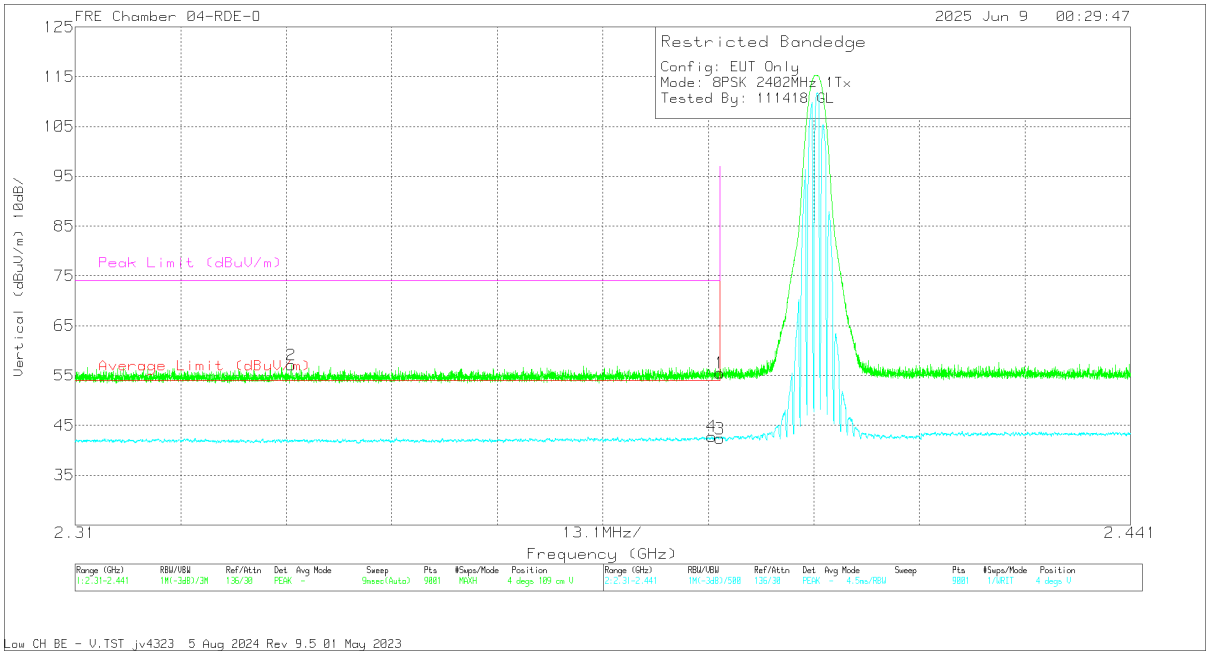


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.01	Pk	32.1	-37.08	55.03	-	-	74	-18.97	322	115	H
2	* 2.313814	62.29	Pk	31.8	-37.05	57.04	-	-	74	-16.96	322	115	H
3	* 2.39	47.47	VA1T	32.1	-37.08	42.49	54	-11.51	-	-	322	115	H
4	* 2.387307	47.78	VA1T	32.1	-37.09	42.79	54	-11.21	-	-	322	115	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.47	Pk	32.1	-37.08	55.49	-	-	74	-18.51	4	109	V
2	* 2.336841	62.24	Pk	31.8	-36.95	57.09	-	-	74	-16.91	4	109	V
3	* 2.39	47.3	VA1T	32.1	-37.08	42.32	54	-11.68	-	-	4	109	V
4	* 2.38901	47.7	VA1T	32.1	-37.08	42.72	54	-11.28	-	-	4	109	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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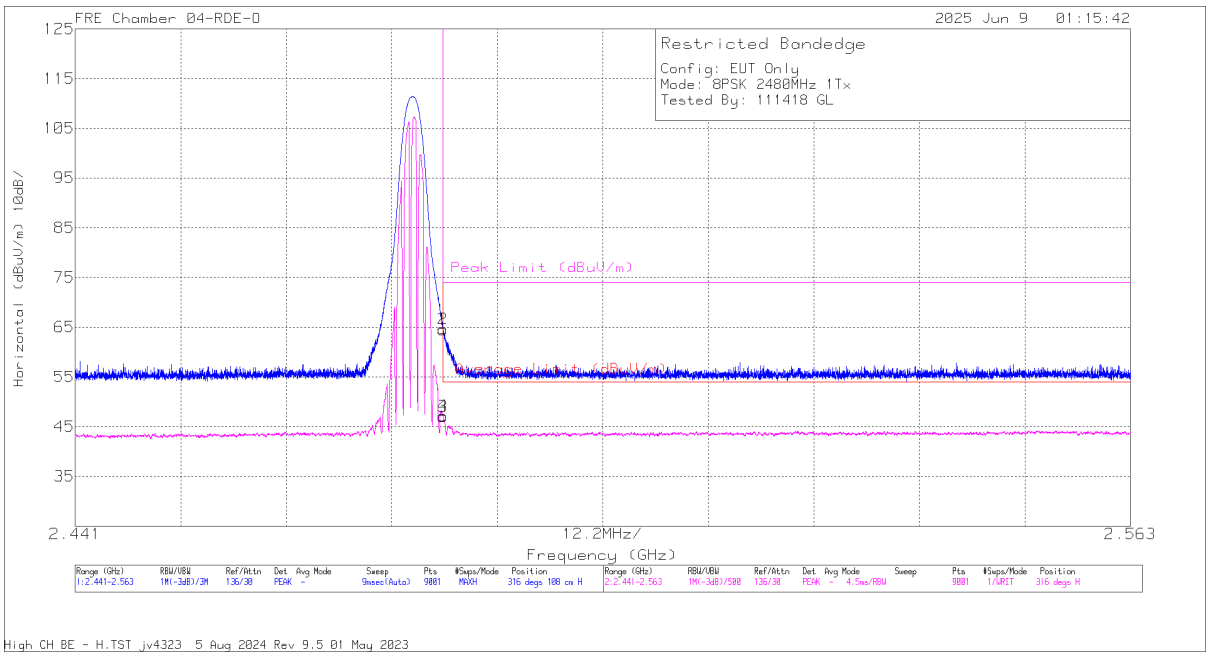
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	69.11	Pk	32.3	-36.91	64.5	-	-	74	-9.5	316	108	H
2	* 2.483512	69.25	Pk	32.3	-36.9	64.65	-	-	74	-9.35	316	108	H
3	* 2.4835	51.66	VA1T	32.3	-36.91	47.05	54	-6.95	-	-	316	108	H
4	* 2.483525	51.75	VA1T	32.3	-36.9	47.15	54	-6.85	-	-	316	108	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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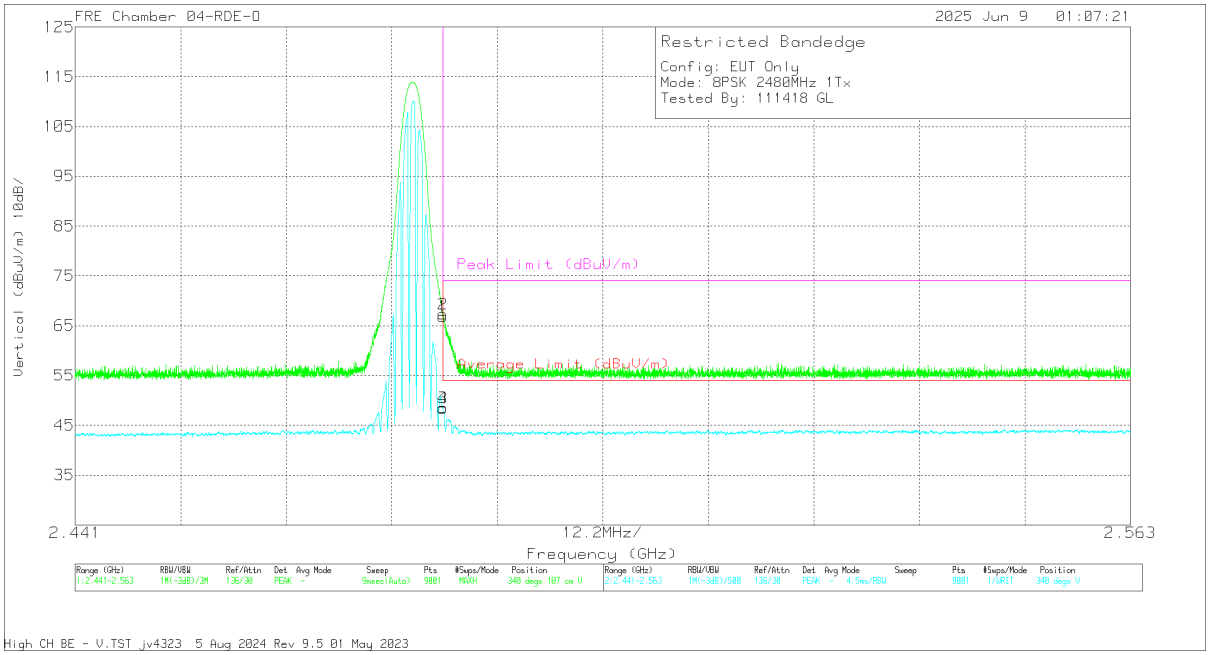
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	71.46	Pk	32.3	-36.91	66.85	-	-	74	-7.15	340	107	V
2	* 2.483512	71.9	Pk	32.3	-36.9	67.3	-	-	74	-6.7	340	107	V
3	* 2.4835	53.11	VA1T	32.3	-36.91	48.5	54	-5.5	-	-	340	107	V
4	* 2.483512	53.07	VA1T	32.3	-36.9	48.47	54	-5.53	-	-	340	107	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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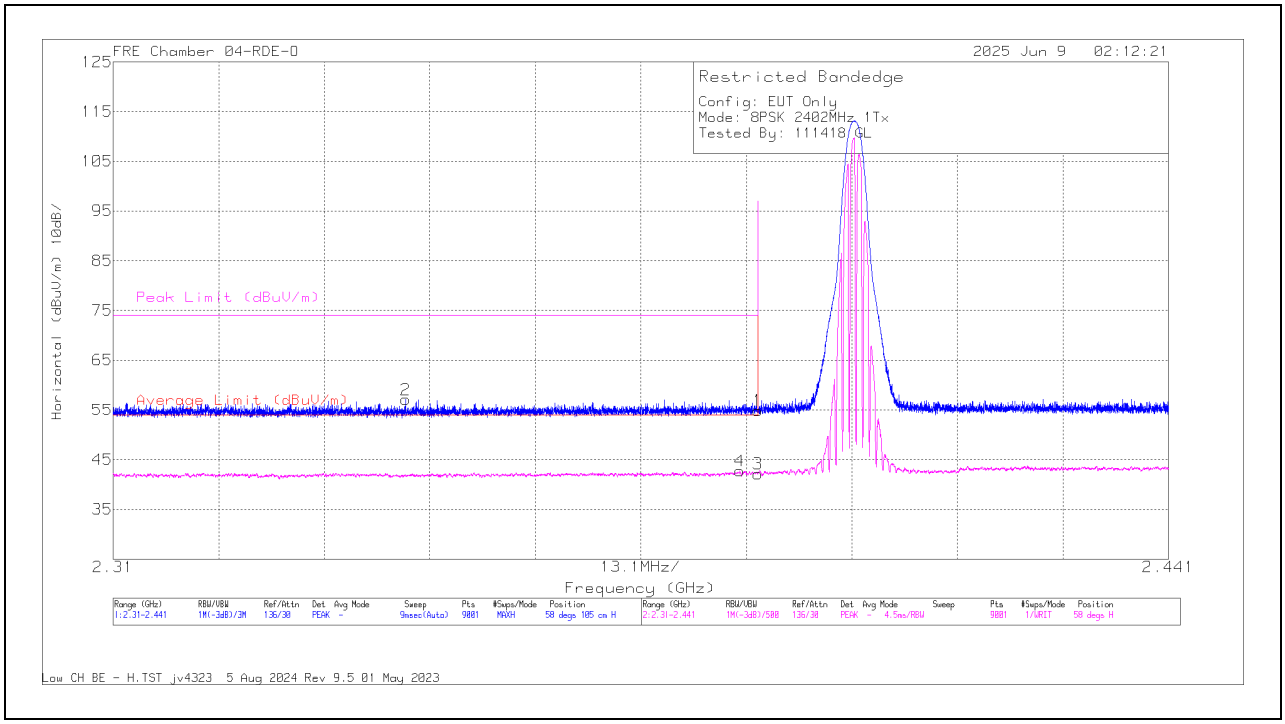
ANT 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

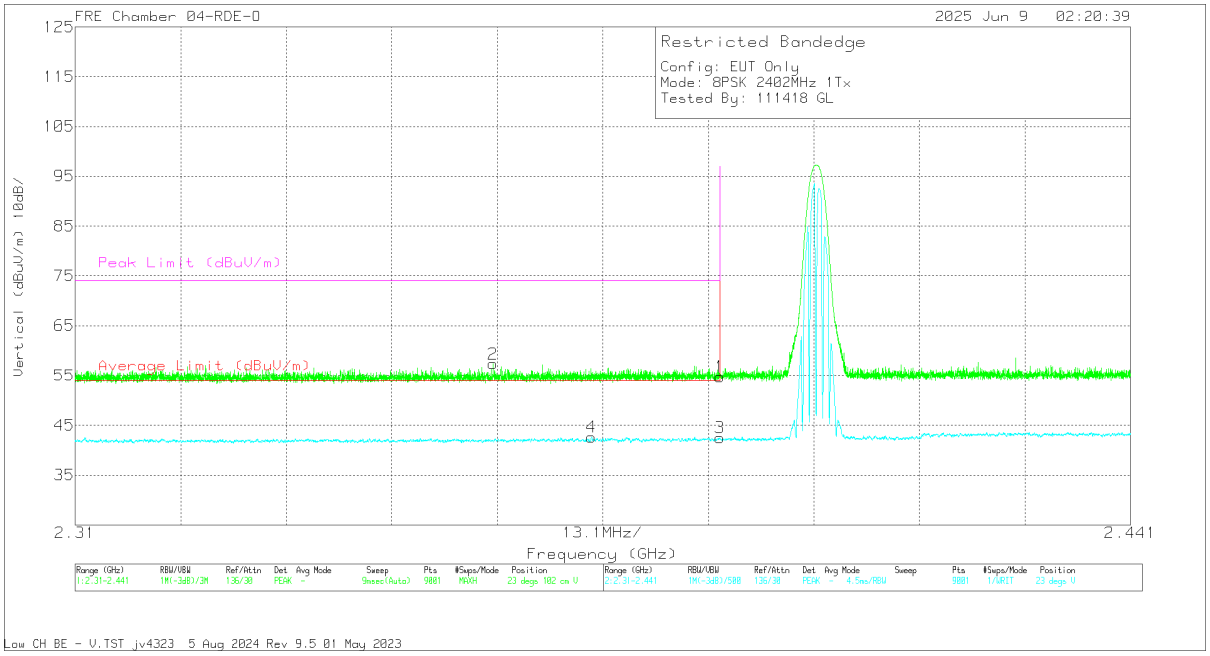


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.86	Pk	32.1	-37.08	54.88	-	-	74	-19.12	58	105	H
2	* 2.346317	62.39	Pk	31.8	-37.11	57.08	-	-	74	-16.92	58	105	H
3	* 2.39	47.08	VA1T	32.1	-37.08	42.1	54	-11.9	-	-	58	105	H
4	* 2.387802	47.69	VA1T	32.1	-37.08	42.71	54	-11.29	-	-	58	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.75	Pk	32.1	-37.08	54.77	-	-	74	-19.23	23	102	V
2	* 2.361878	62.57	Pk	31.9	-37.14	57.33	-	-	74	-16.67	23	102	V
3	* 2.39	47.46	VA1T	32.1	-37.08	42.48	54	-11.52	-	-	23	102	V
4	* 2.37409	47.73	VA1T	32	-37.09	42.64	54	-11.36	-	-	23	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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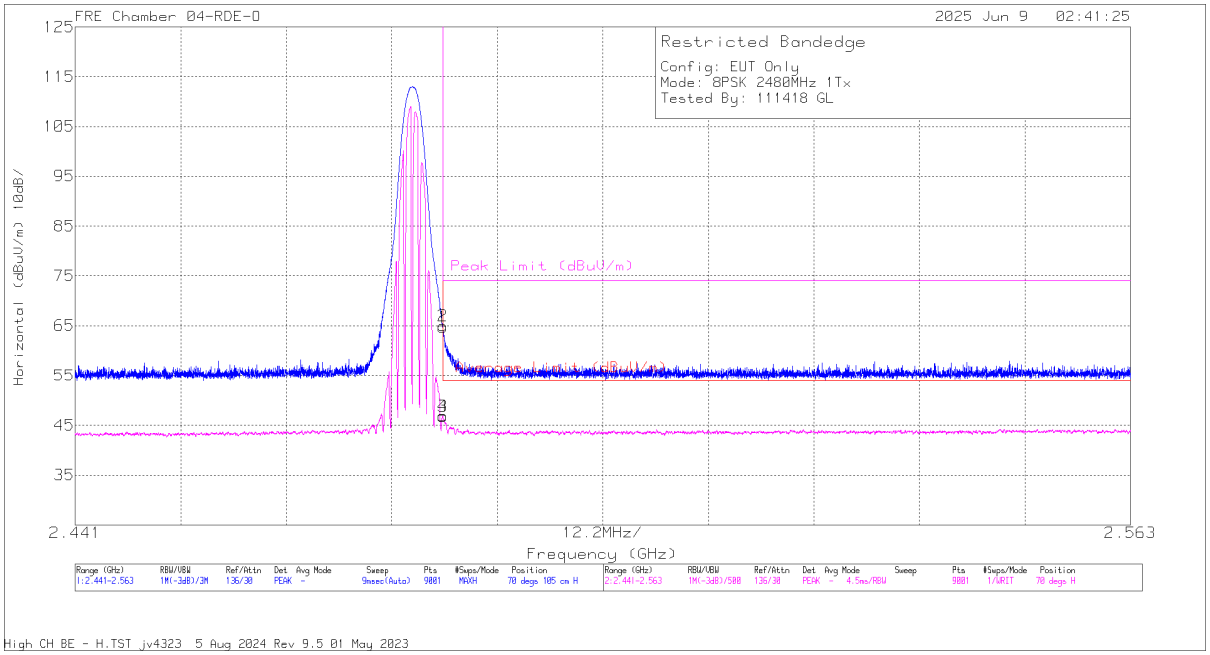
BANDEDGE (HIGH CHANNEL)

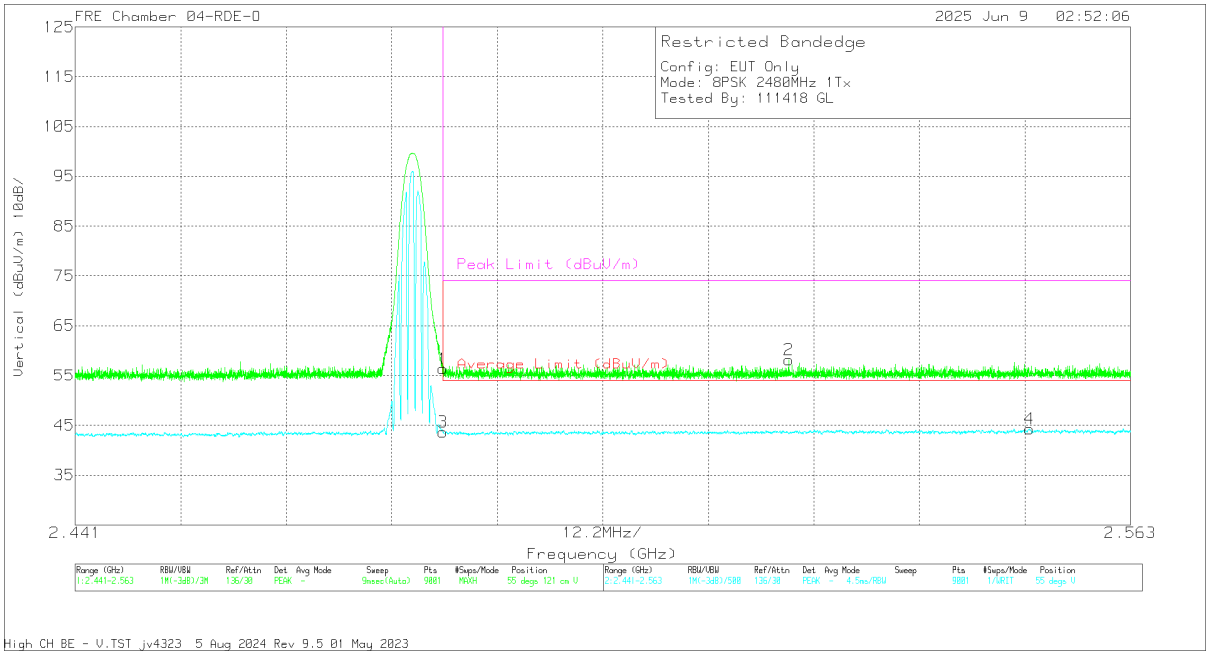
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	69.36	Pk	32.3	-36.91	64.75	-	-	74	-9.25	70	105	H
2	* 2.483525	69.62	Pk	32.3	-36.9	65.02	-	-	74	-8.98	70	105	H
3	* 2.4835	51.47	VA1T	32.3	-36.91	46.86	54	-7.14	-	-	70	105	H
4	* 2.483512	51.35	VA1T	32.3	-36.9	46.75	54	-7.25	-	-	70	105	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.95	Pk	32.3	-36.91	56.34	-	-	74	-17.66	55	121	V
3	* 2.4835	48.27	VA1T	32.3	-36.91	43.66	54	-10.34	-	-	55	121	V
2	2.523475	62.6	Pk	32.4	-36.87	58.13	-	-	74	-15.87	55	121	V
4	2.551319	48.59	VA1T	32.4	-36.71	44.28	54	-9.72	-	-	55	121	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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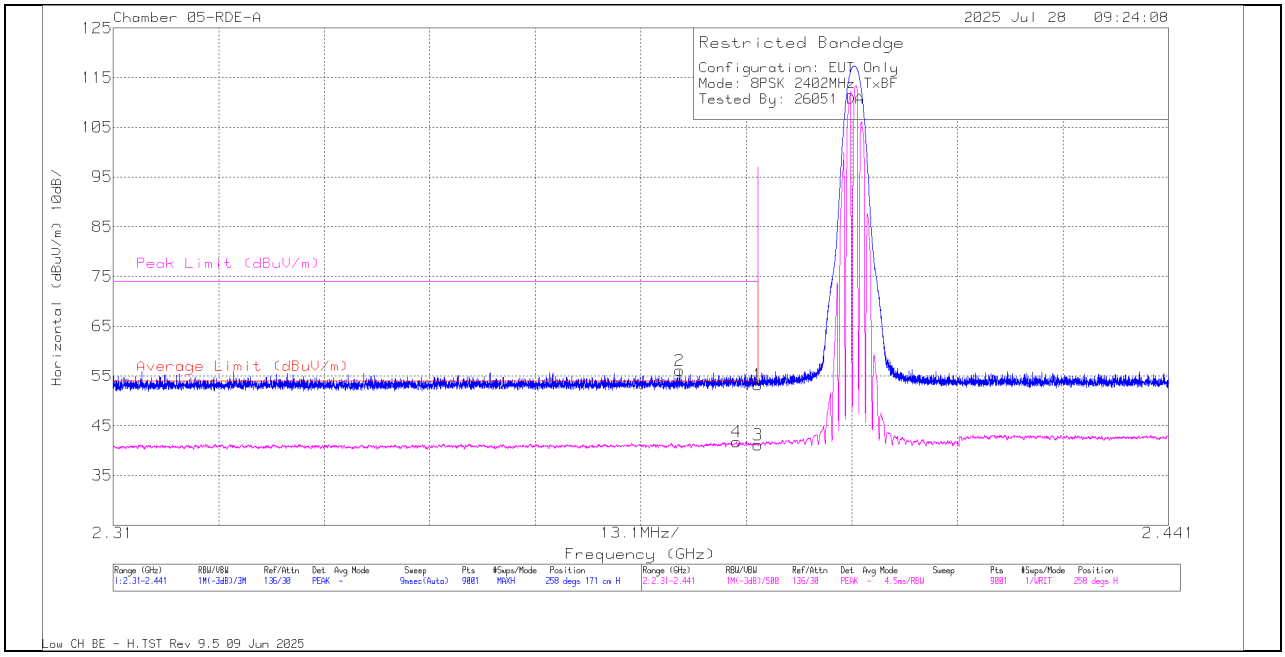
10.1.4. HIGH POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.09	Pk	32.6	-39.5	53.19	-	-	74	-20.81	258	171	H
2	* 2.38032	63.08	Pk	32.6	-39.6	56.08	-	-	74	-17.92	258	171	H
3	* 2.39	47.99	VA1T	32.6	-39.5	41.09	54	-12.91	-	-	258	171	H
4	* 2.38738	48.54	VA1T	32.6	-39.4	41.74	54	-12.26	-	-	258	171	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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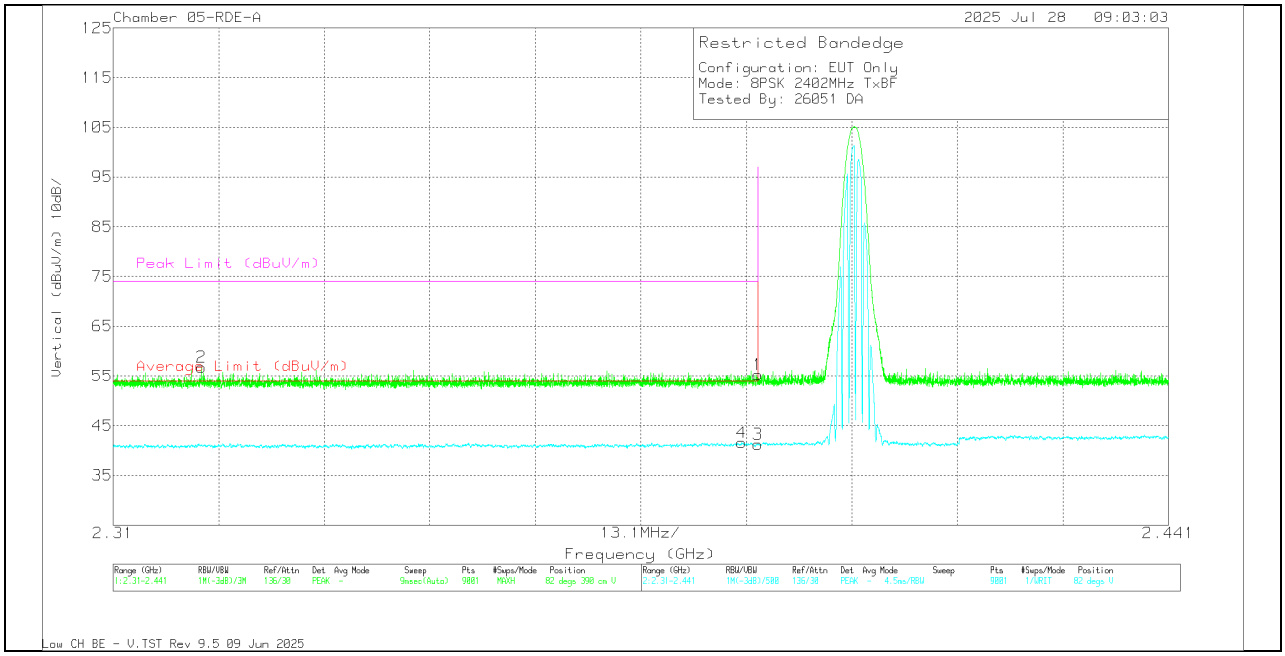
VERTICAL RESULT



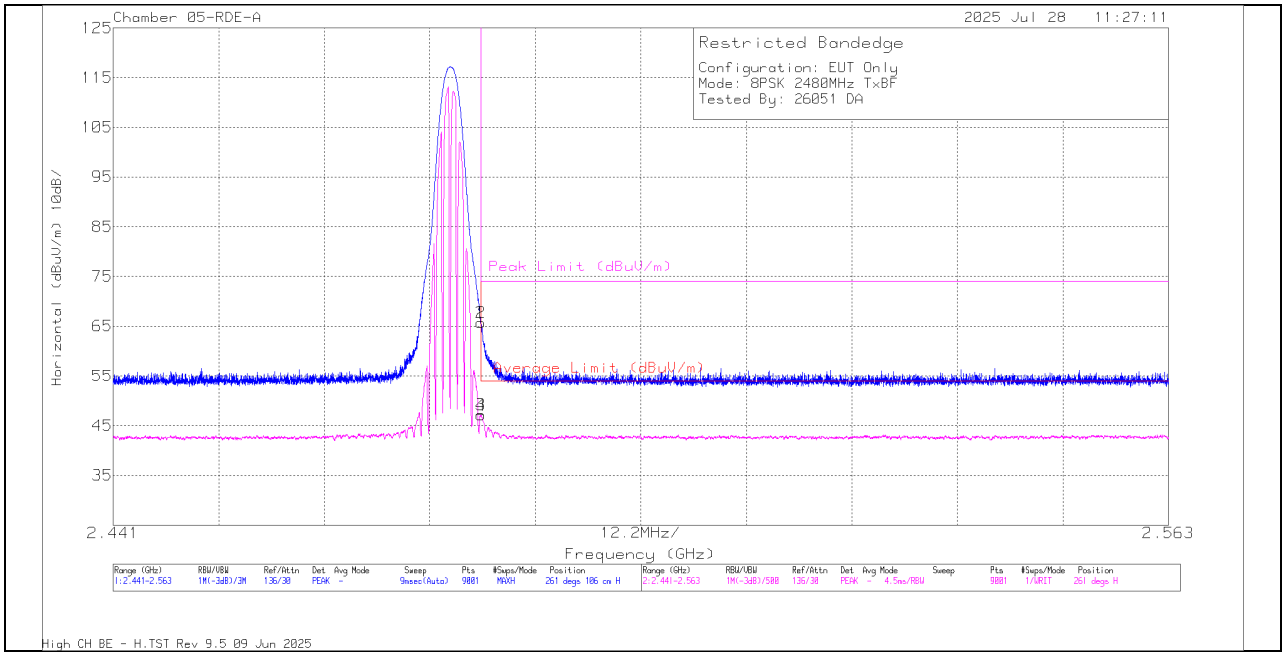
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	62.18	Pk	32.6	-39.5	55.28	-	-	74	-18.72	82	390	V
2	* 2.320961	63.9	Pk	32.4	-39.5	56.8	-	-	74	-17.2	82	390	V
3	* 2.39	48.14	VA1T	32.6	-39.5	41.24	54	-12.76	-	-	82	390	V
4	* 2.388049	48.37	VA1T	32.6	-39.4	41.57	54	-12.43	-	-	82	390	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

BANDEDGE (HIGH CHANNEL)

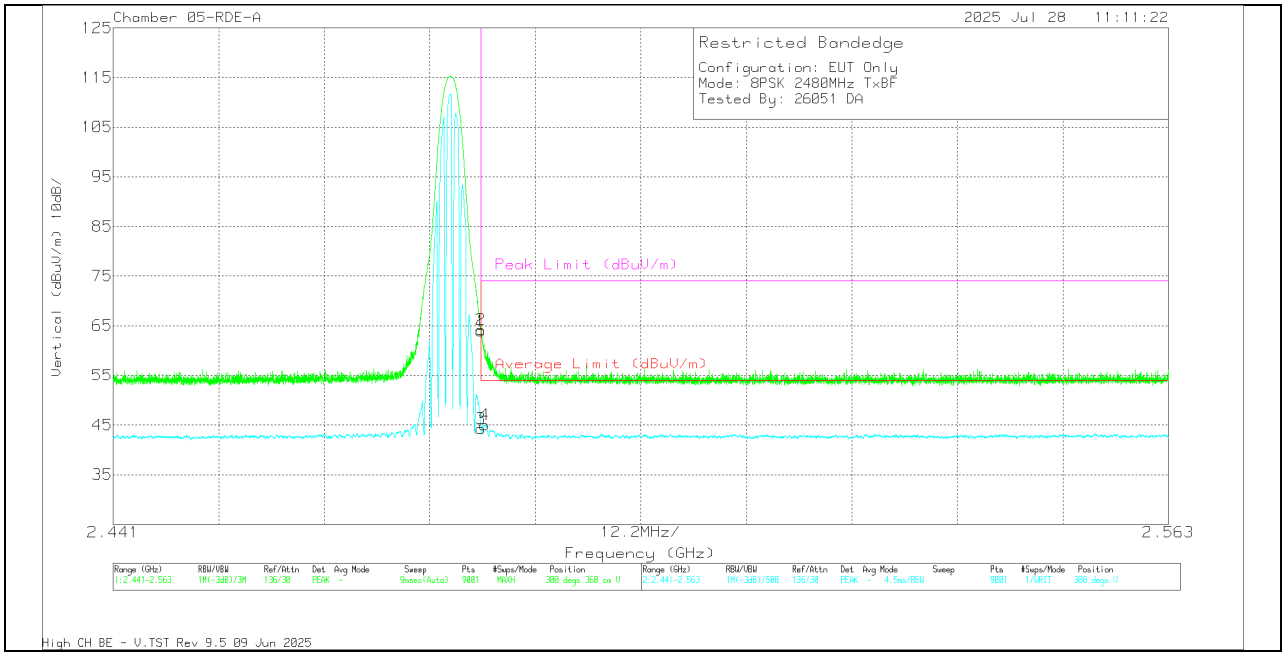
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	72.36	Pk	32.7	-39.4	65.66	-	-	74	-8.34	261	106	H
2	* 2.483539	72.41	Pk	32.7	-39.4	65.71	-	-	74	-8.29	261	106	H
3	* 2.4835	53.84	VA1T	32.7	-39.4	47.14	54	-6.86	-	-	261	106	H
4	* 2.483512	53.81	VA1T	32.7	-39.4	47.11	54	-6.89	-	-	261	106	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	70.67	Pk	32.7	-39.4	63.97	-	-	74	-10.03	300	368	V
2	* 2.483512	70.92	Pk	32.7	-39.4	64.22	-	-	74	-9.78	300	368	V
3	* 2.4835	50.95	VA1T	32.7	-39.4	44.25	54	-9.75	-	-	300	368	V
4	* 2.483959	51.74	VA1T	32.7	-39.4	45.04	54	-8.96	-	-	300	368	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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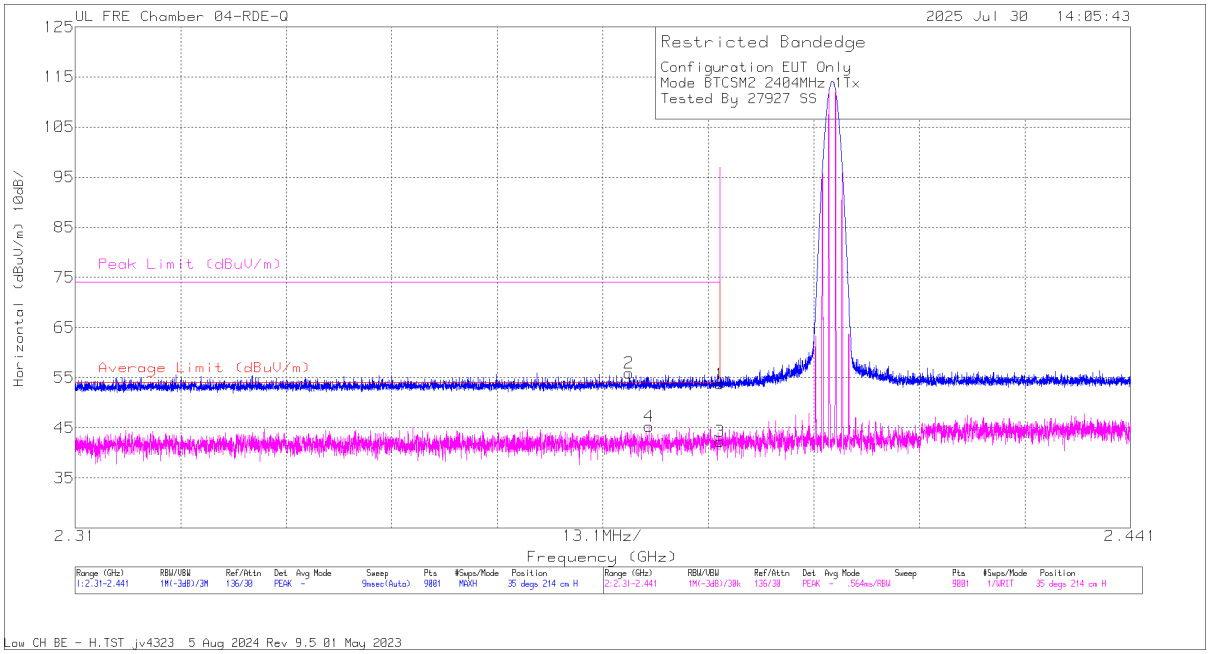
10.1.5. HIGH POWER ENHANCED DATA RATE BTCSM2 MODULATION

ANT 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

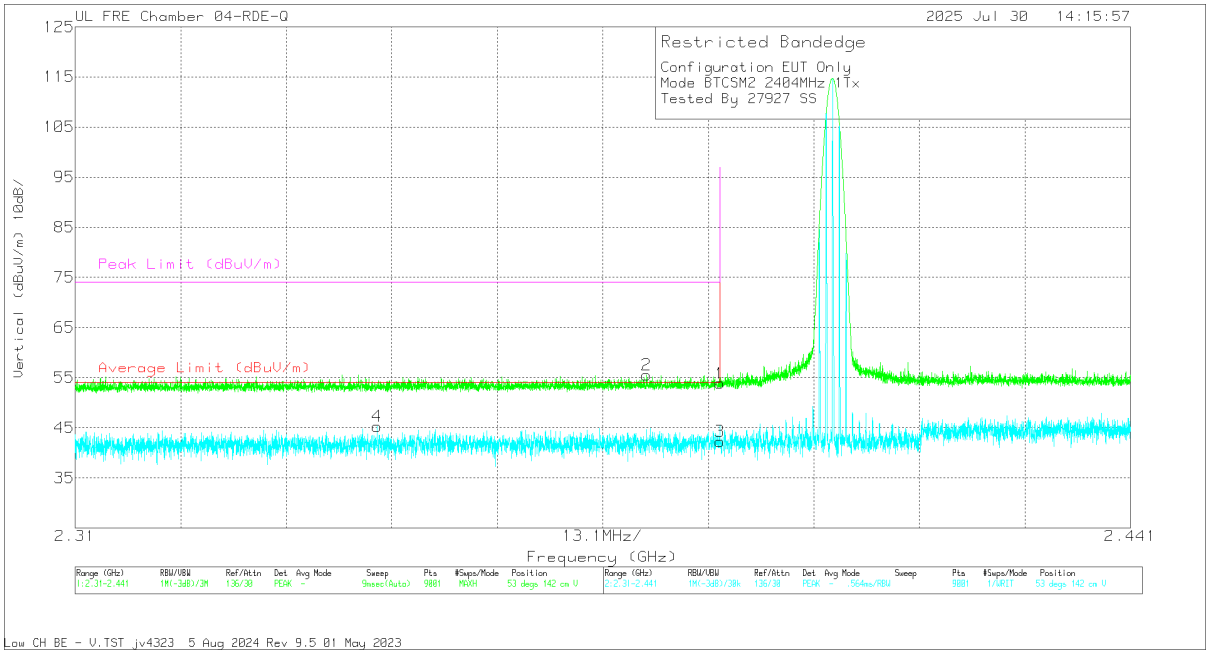


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.378792	62.28	Pk	31.9	-38.31	55.87	-	-	74	-18.13	35	214	H
4	*2.381252	51.71	VA1T	31.9	-38.34	45.27	54	-8.73	-	-	35	214	H
1	*2.39	60.1	Pk	31.9	-38.27	53.73	-	-	74	-20.27	35	214	H
3	*2.39	48.65	VA1T	31.9	-38.27	42.28	54	-11.72	-	-	35	214	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



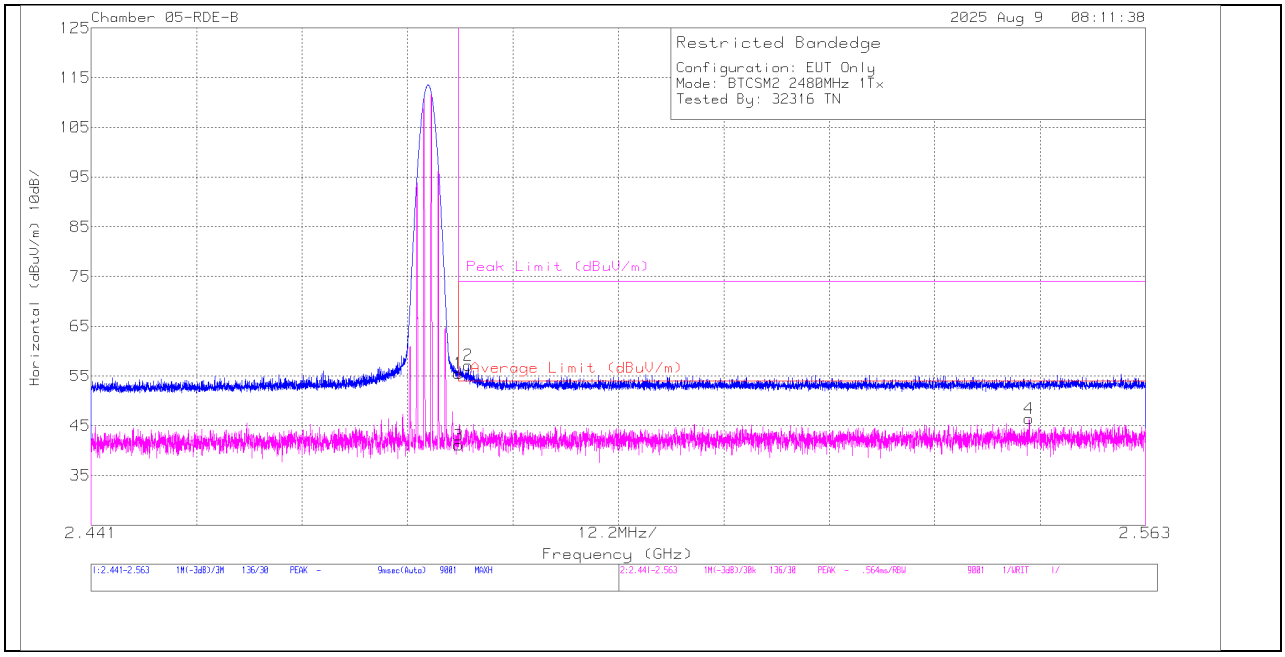
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*2.347467	51.87	VA1T	31.8	-38.41	45.26	54	-8.74	-	-	53	142	V
2	*2.380961	61.99	Pk	31.9	-38.33	55.56	-	-	74	-18.44	53	142	V
1	*2.39	60.22	Pk	31.9	-38.27	53.85	-	-	74	-20.15	53	142	V
3	*2.39	48.67	VA1T	31.9	-38.27	42.3	54	-11.7	-	-	53	142	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

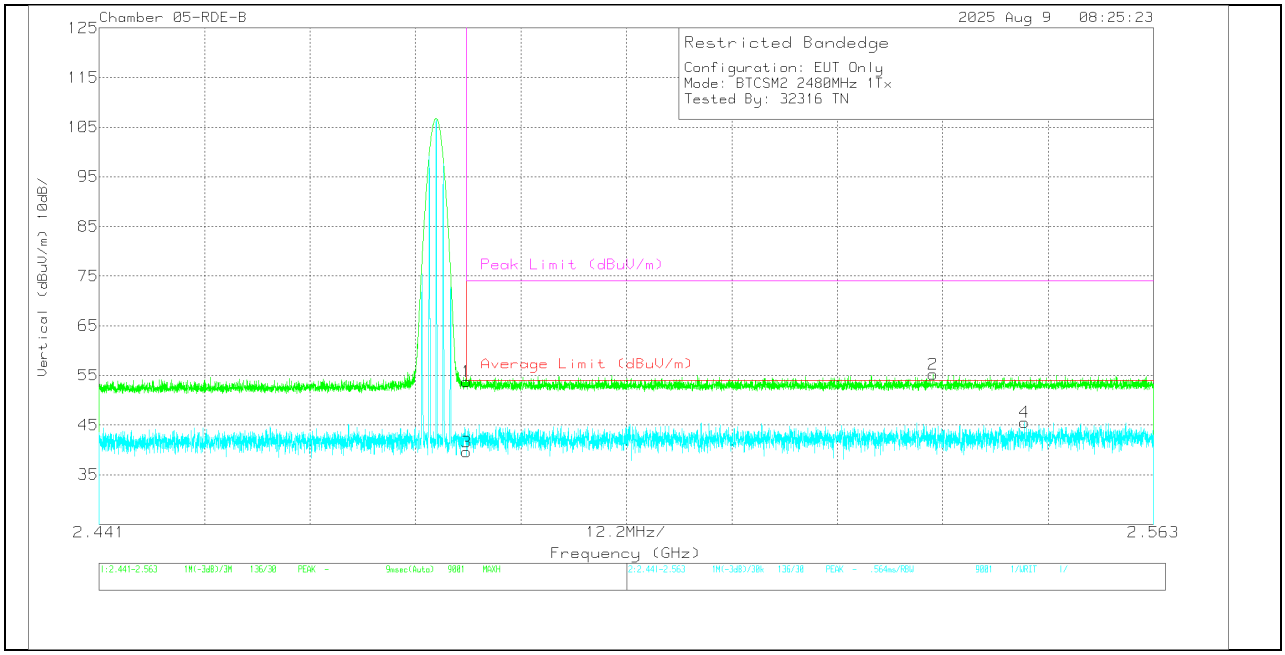


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	63.74	Pk	32.2	-40.39	55.55	-	-	74	-18.45	252	263	H
3	2.4835	49.26	VA1T	32.2	-40.39	41.07	54	-12.93	-	-	252	263	H
2	2.484637	65.17	Pk	32.3	-40.37	57.1	-	-	74	-16.9	252	263	H
4	2.549543	54.23	VA1T	32.3	-40.11	46.42	54	-7.58	-	-	252	263	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.88	Pk	32.2	-40.39	53.69	-	-	74	-20.31	56	273	V
3	2.4835	47.74	VA1T	32.2	-40.39	39.55	54	-14.45	-	-	56	273	V
2	2.537505	63.12	Pk	32.3	-40.22	55.2	-	-	74	-18.8	56	273	V
4	2.548052	53.32	VA1T	32.3	-40.13	45.49	54	-8.51	-	-	56	273	V

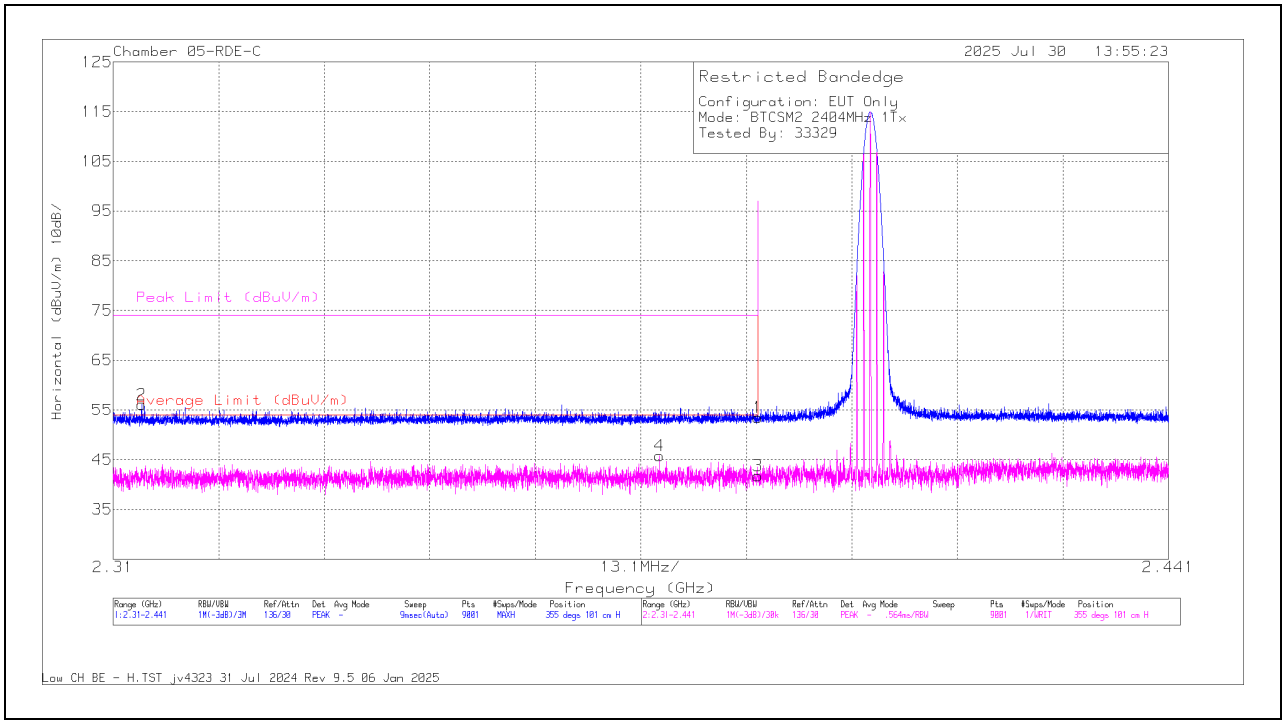
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

ANT 1

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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.313523	64.48	Pk	31.7	-40.11	56.07	-	-	74	-17.93	355	101	H
4	*2.377816	54.06	VA1T	32	-40.31	45.75	54	-8.25	-	-	355	101	H
1	*2.39	61.82	Pk	32	-40.36	53.46	-	-	74	-20.54	355	101	H
3	*2.39	50.12	VA1T	32	-40.36	41.76	54	-12.24	-	-	355	101	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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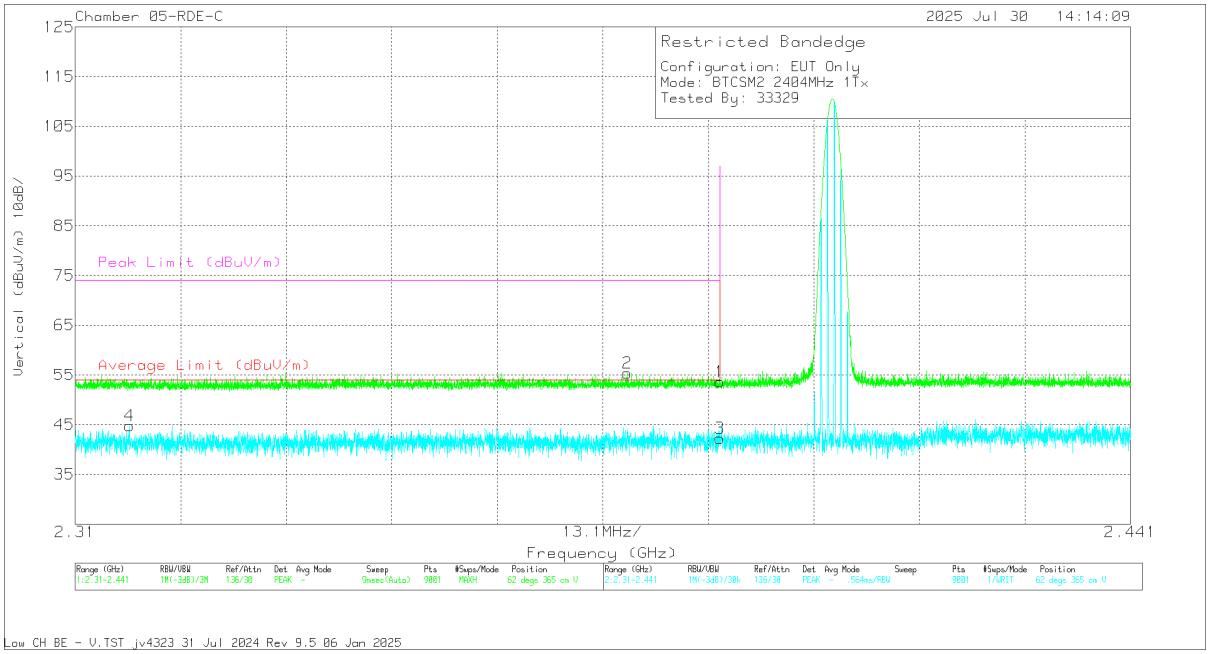
VERTICAL RESULT



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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*2.316725	53.26	VA1T	31.7	-40.19	44.77	54	-9.23	-	-	62	365	V
2	*2.378559	63.71	Pk	32	-40.29	55.42	-	-	74	-18.58	62	365	V
1	*2.39	62.02	Pk	32	-40.36	53.66	-	-	74	-20.34	62	365	V
3	*2.39	50.58	VA1T	32	-40.36	42.22	54	-11.78	-	-	62	365	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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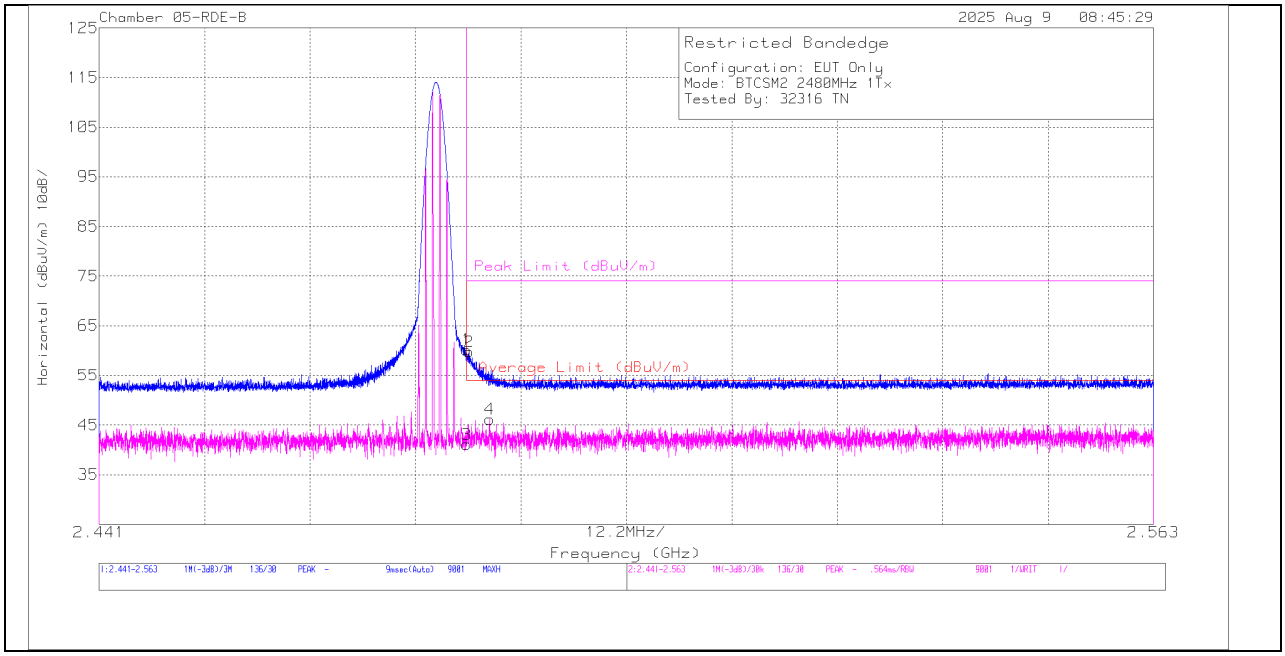
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

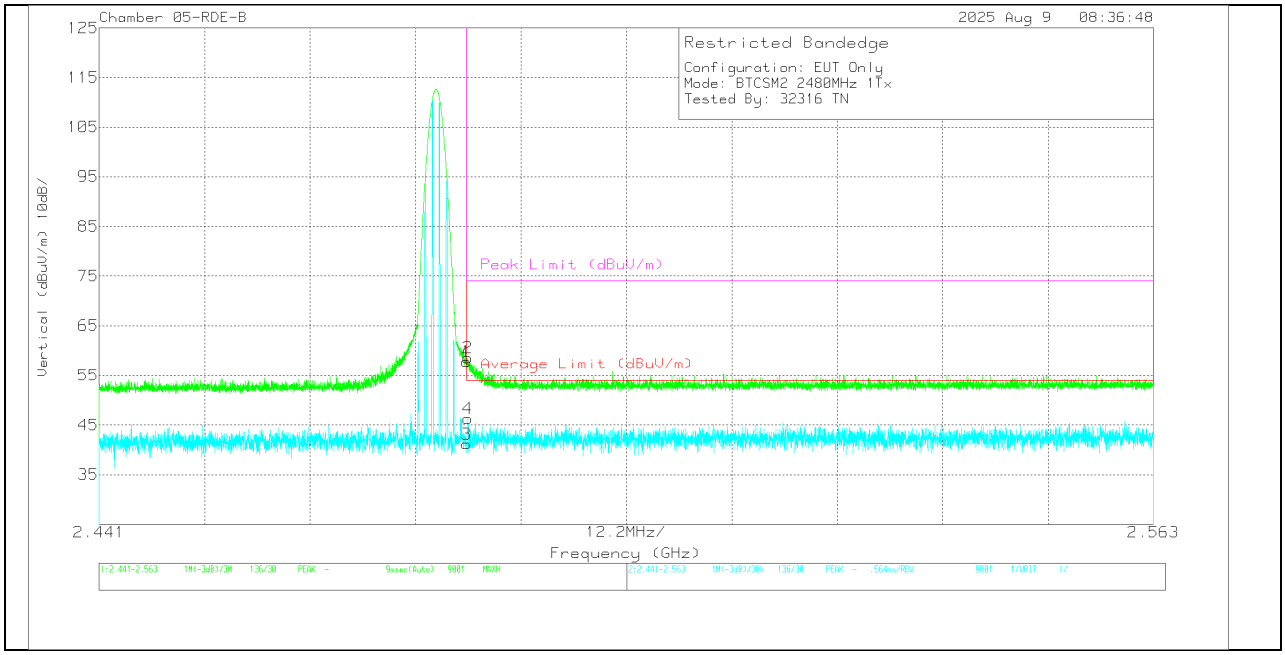


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	68.36	Pk	32.2	-40.39	60.17	-	-	74	-13.83	92	100	H
3	2.4835	49.26	VA1T	32.2	-40.39	41.07	54	-12.93	-	-	92	100	H
2	2.483837	67.91	Pk	32.2	-40.38	59.73	-	-	74	-14.27	92	100	H
4	2.486169	54.23	VA1T	32.3	-40.38	46.15	54	-7.85	-	-	92	100	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	66.01	Pk	32.2	-40.39	57.82	-	-	74	-16.18	135	372	V
3	2.4835	49.37	VA1T	32.2	-40.39	41.18	54	-12.82	-	-	135	372	V
2	2.483674	66.75	Pk	32.2	-40.38	58.57	-	-	74	-15.43	135	372	V
4	2.483688	54.45	VA1T	32.2	-40.38	46.27	54	-7.73	-	-	135	372	V

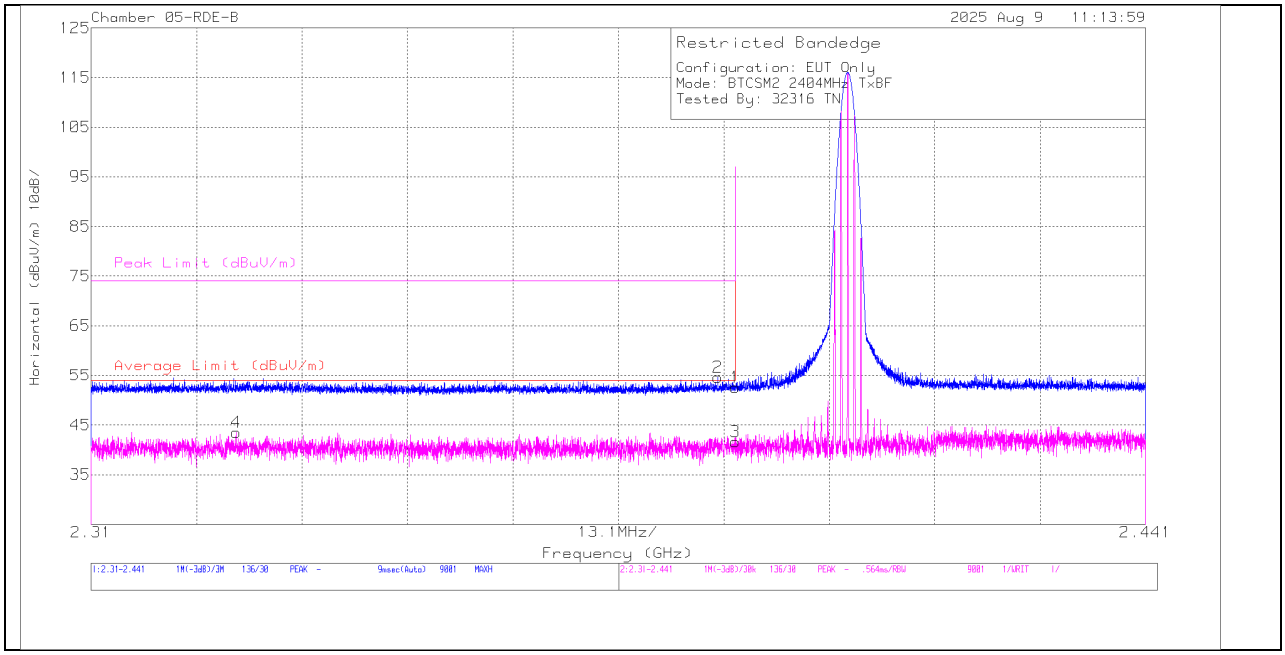
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.6. HIGH POWER ENHANCED DATA RATE TXBF BTCSM2 MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.328006	52.26	VA1T	31.8	-40.59	43.47	54	-10.53	-	-	85	122	H
2	2.387875	62.98	Pk	32	-40.38	54.6	-	-	74	-19.4	85	122	H
1	2.39	61.02	Pk	32	-40.39	52.63	-	-	74	-21.37	85	122	H
3	2.39	50.03	VA1T	32	-40.39	41.64	54	-12.36	-	-	85	122	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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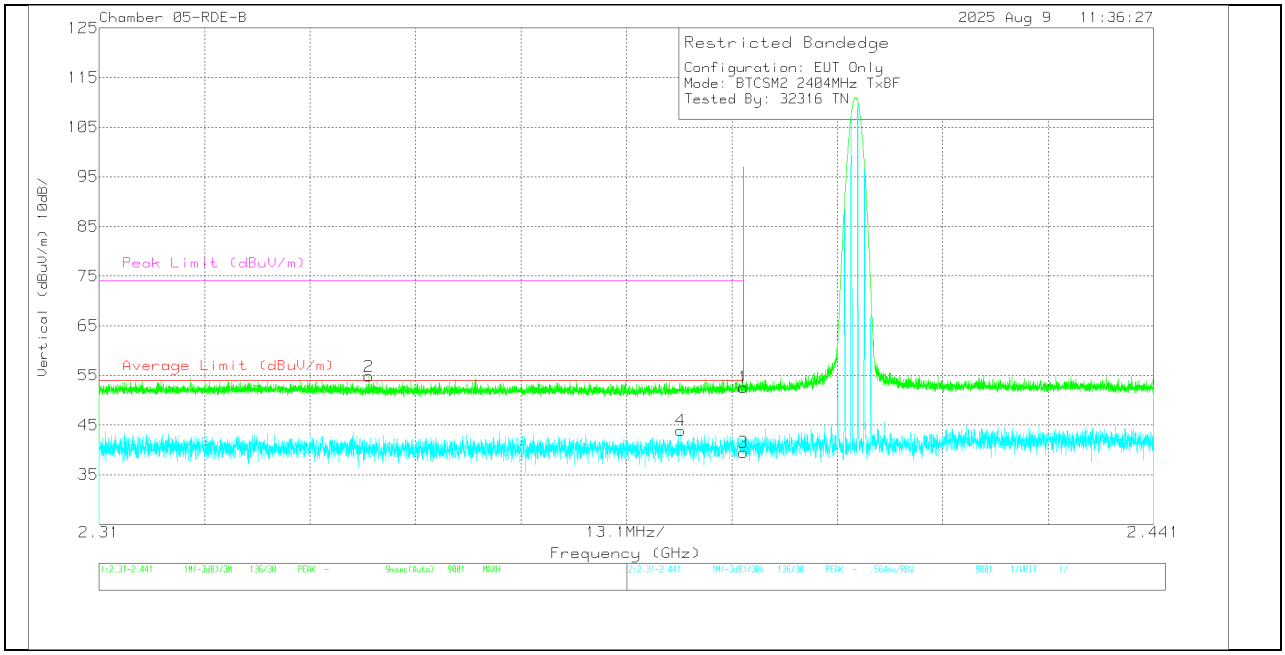
VERTICAL RESULT



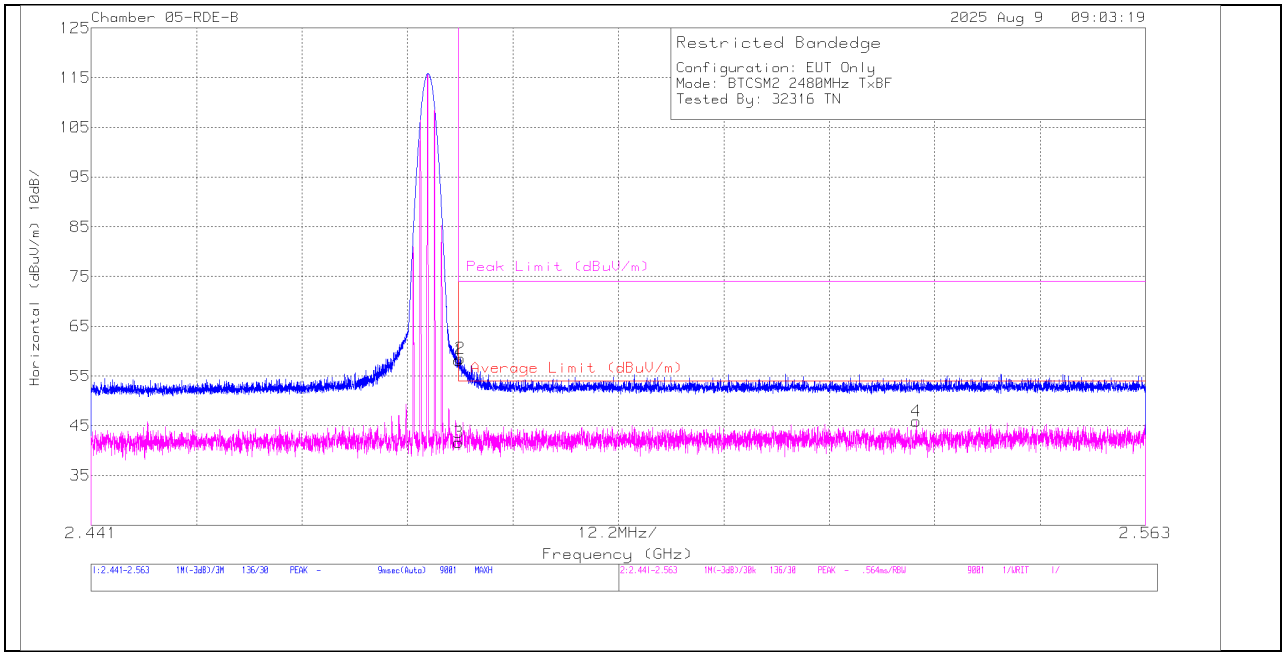
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.343479	63.62	Pk	31.8	-40.61	54.81	-	-	74	-19.19	121	353	V
4	2.382285	52.4	VA1T	32	-40.45	43.95	54	-10.05	-	-	121	353	V
1	2.39	60.98	Pk	32	-40.39	52.59	-	-	74	-21.41	121	353	V
3	2.39	47.85	VA1T	32	-40.39	39.46	54	-14.54	-	-	121	353	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

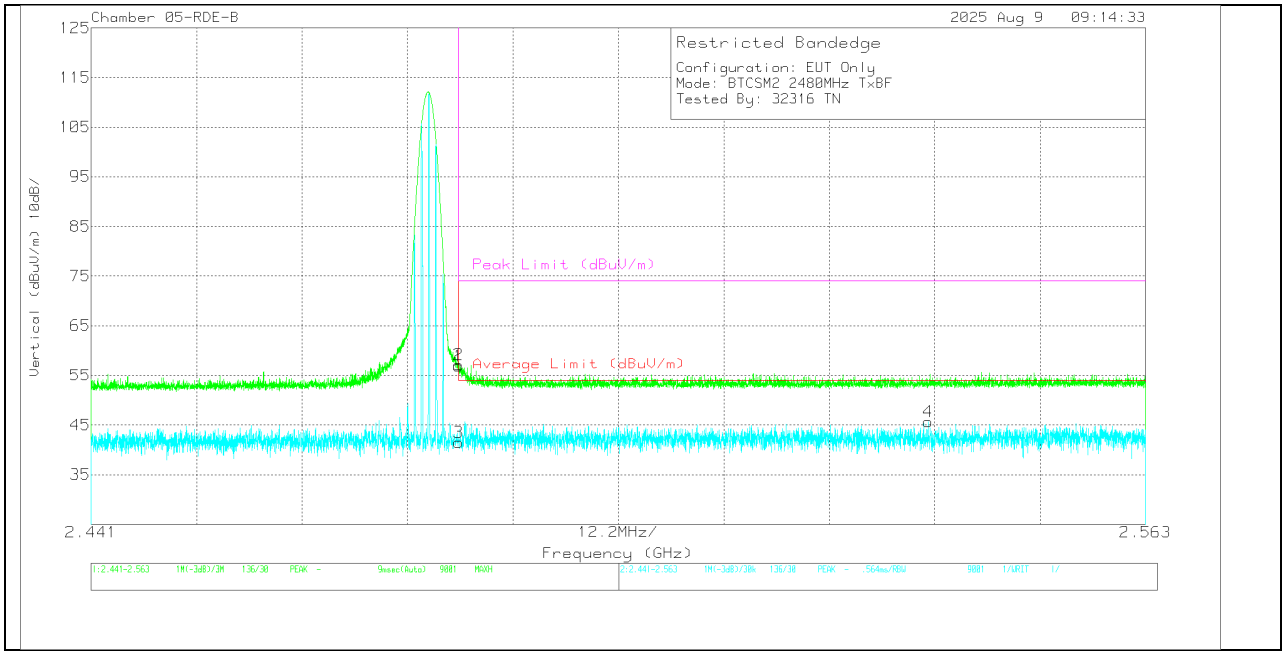


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	66.32	Pk	32.2	-40.39	58.13	-	-	74	-15.87	255	190	H
3	2.4835	49.86	VA1T	32.2	-40.39	41.67	54	-12.33	-	-	255	190	H
2	2.483701	66.72	Pk	32.2	-40.38	58.54	-	-	74	-15.46	255	190	H
4	2.536461	53.82	VA1T	32.3	-40.23	45.89	54	-8.11	-	-	255	190	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	65.13	Pk	32.2	-40.39	56.94	-	-	74	-17.06	125	300	V
3	2.4835	49.67	VA1T	32.2	-40.39	41.48	54	-12.52	-	-	125	300	V
2	2.483525	65.36	Pk	32.2	-40.38	57.18	-	-	74	-16.82	125	300	V
4	2.537844	53.62	VA1T	32.3	-40.22	45.7	54	-8.3	-	-	125	300	V

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

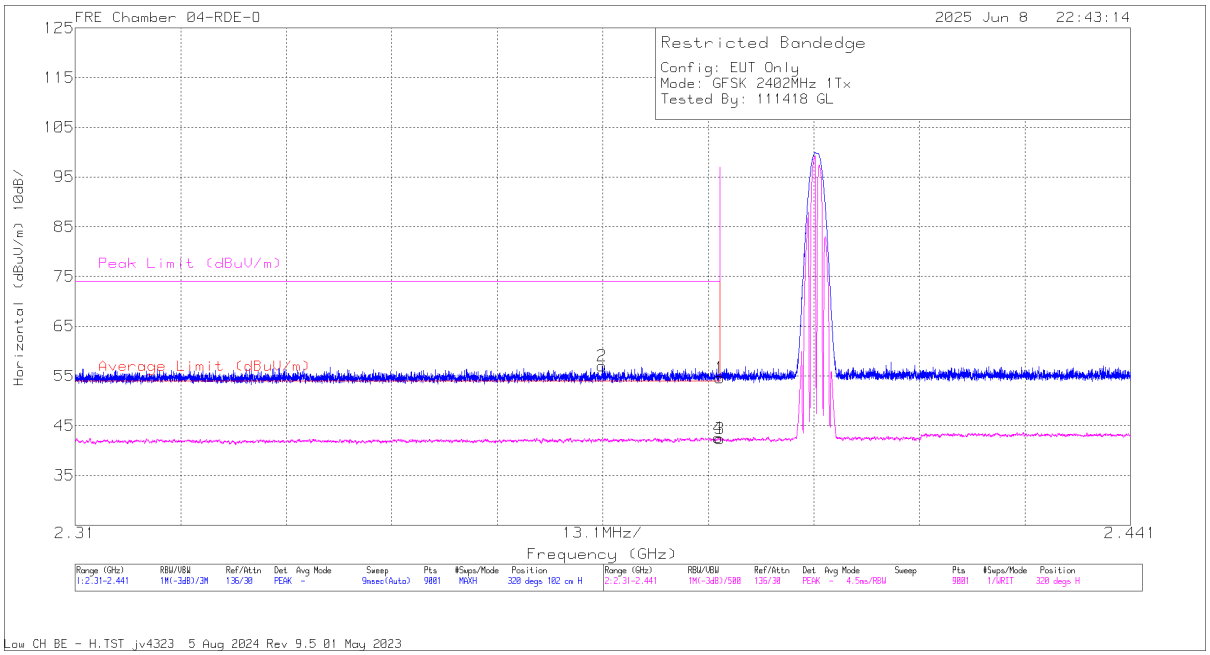
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.7. LOW POWER BASIC DATA RATE GFSK MODULATION

ANT 2

BANDEDGE (LOW CHANNEL)

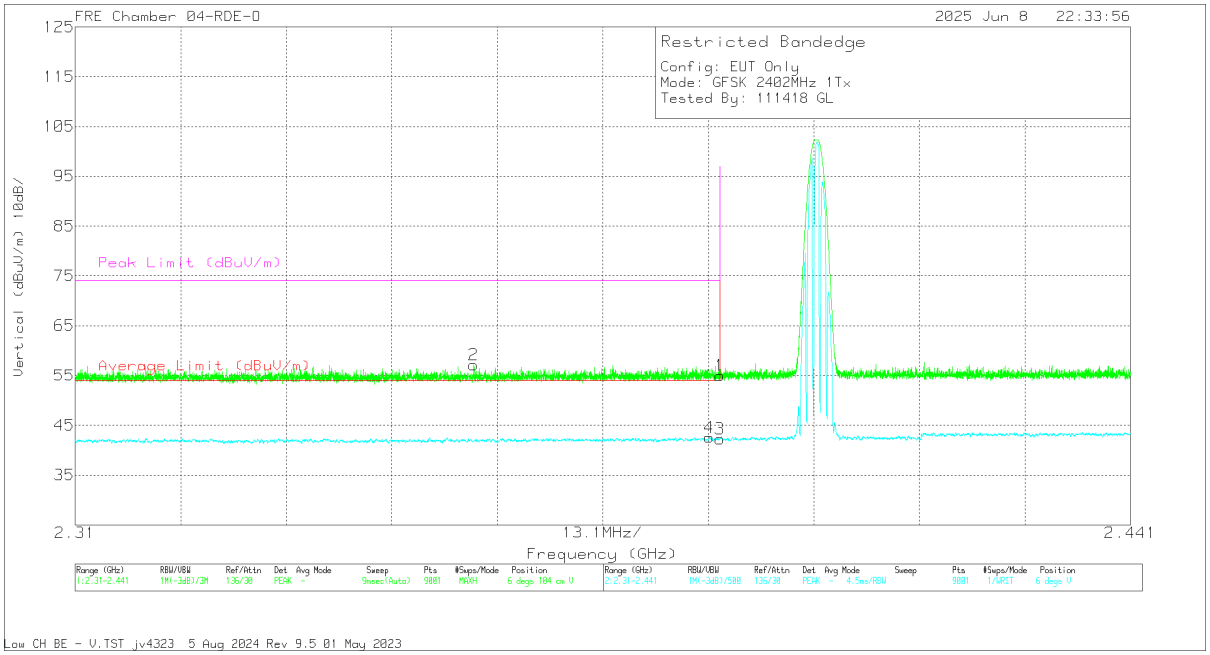
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.64	Pk	32.1	-37.08	54.66	-	-	74	-19.34	320	102	H
2	* 2.375444	62.13	Pk	32	-37.09	57.04	-	-	74	-16.96	320	102	H
3	* 2.39	47.36	VA1T	32.1	-37.08	42.38	54	-11.62	-	-	320	102	H
4	* 2.38984	47.55	VA1T	32.1	-37.08	42.57	54	-11.43	-	-	320	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.01	Pk	32.1	-37.08	55.03	-	-	74	-18.97	6	104	V
2	* 2.35949	62.42	Pk	31.9	-37.13	57.19	-	-	74	-16.81	6	104	V
3	* 2.39	47.22	VA1T	32.1	-37.08	42.24	54	-11.76	-	-	6	104	V
4	* 2.388719	47.55	VA1T	32.1	-37.08	42.57	54	-11.43	-	-	6	104	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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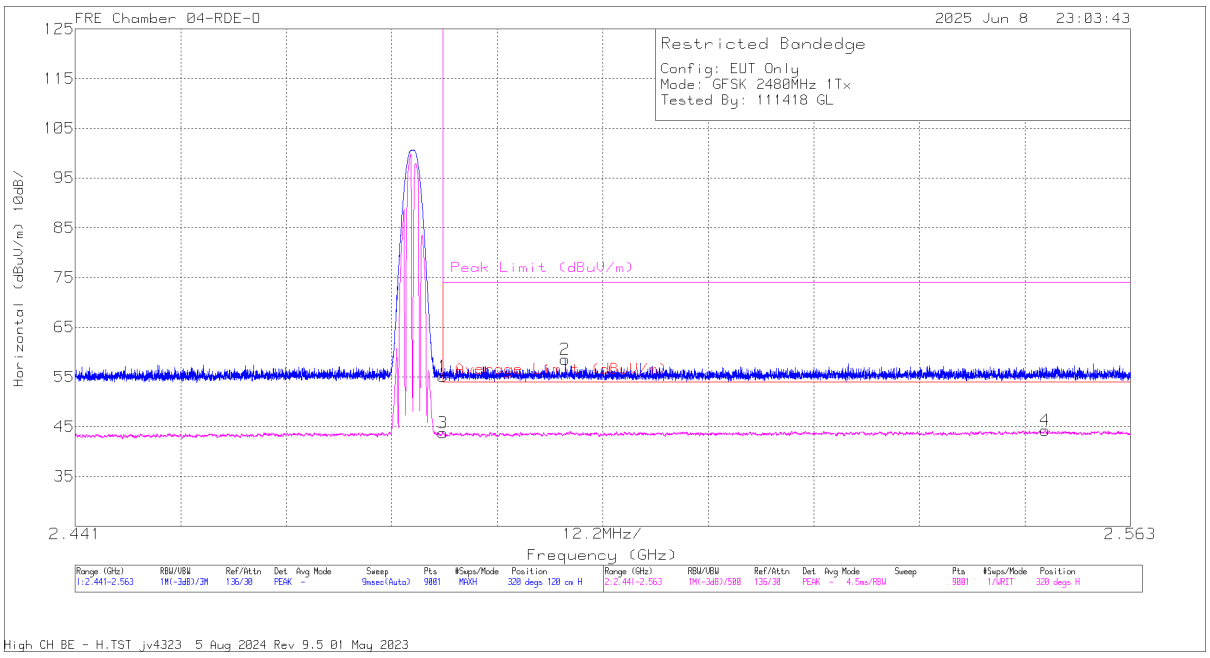
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.72	Pk	32.3	-36.91	55.11	-	-	74	-18.89	320	120	H
2	* 2.497637	63.02	Pk	32.4	-36.88	58.54	-	-	74	-15.46	320	120	H
3	* 2.4835	48.34	VA1T	32.3	-36.91	43.73	54	-10.27	-	-	320	120	H
4	*2.553108	48.6	VA1T	32.4	-36.72	44.28	54	-9.72	-	-	320	120	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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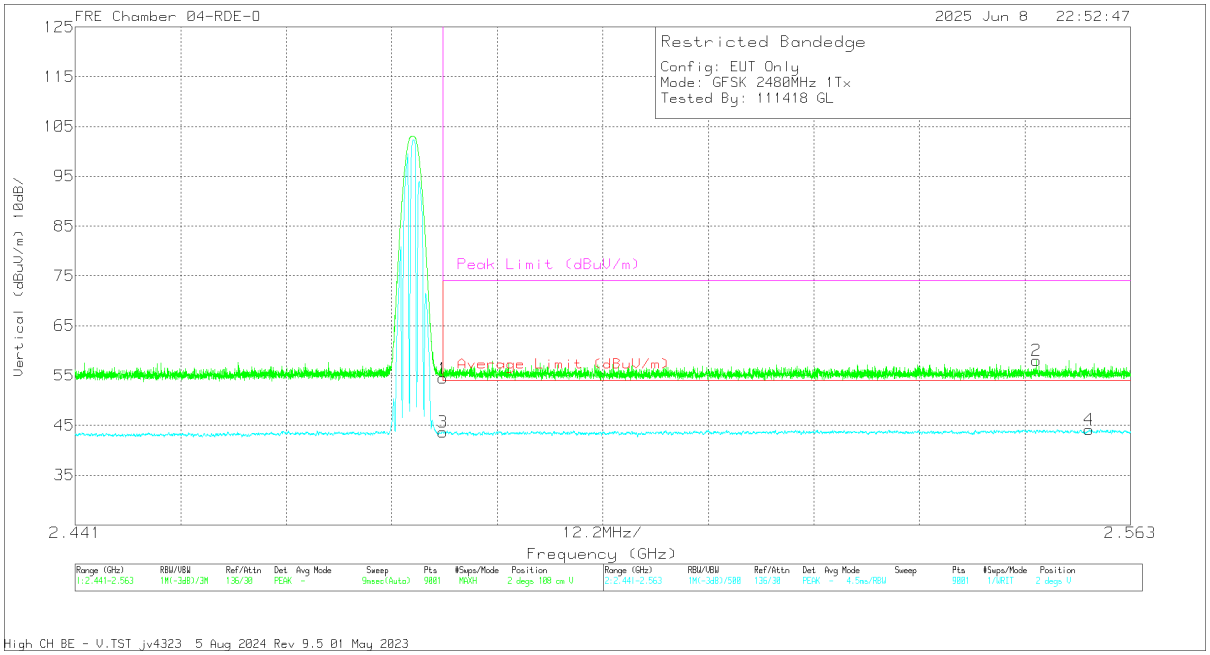
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.04	Pk	32.3	-36.91	54.43	-	-	74	-19.57	2	108	V
3	* 2.4835	48.22	VA1T	32.3	-36.91	43.61	54	-10.39	-	-	2	108	V
2	*2.552119	62.3	Pk	32.4	-36.7	58	-	-	74	-16	2	108	V
4	*2.558205	48.58	VA1T	32.4	-36.8	44.18	54	-9.82	-	-	2	108	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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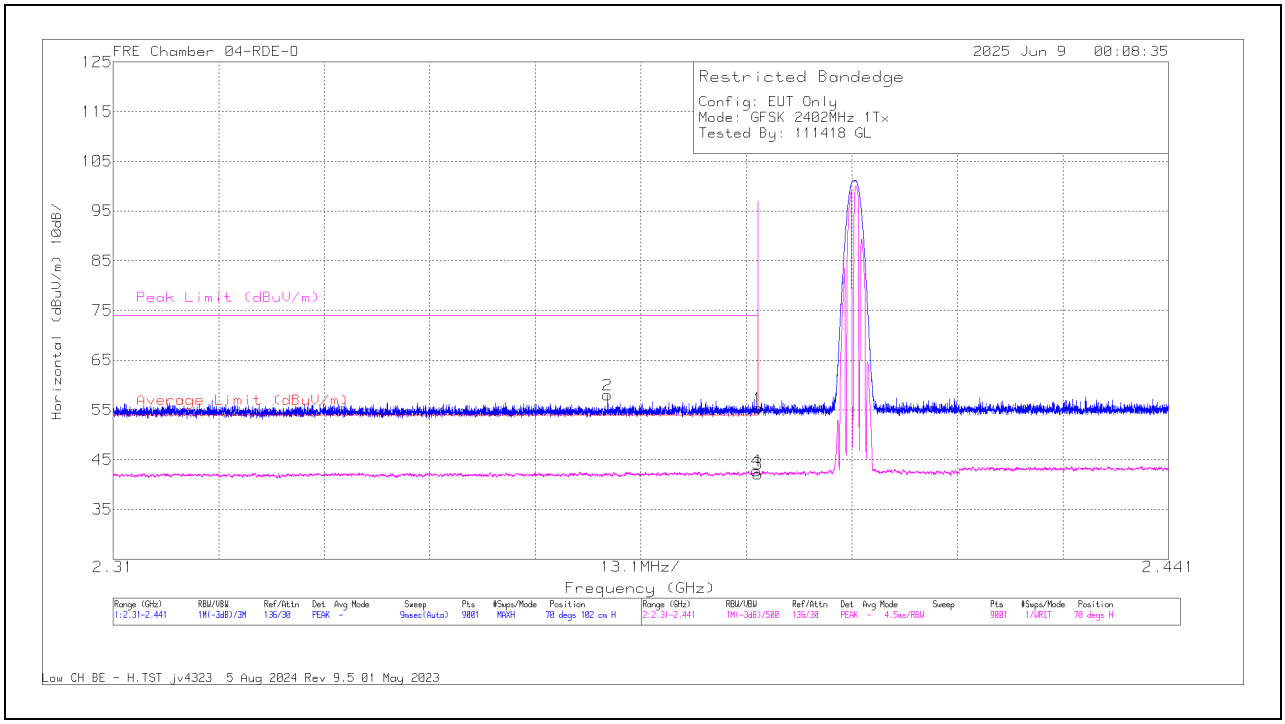
ANT 1

BANDEDGE (LOW CHANNEL)

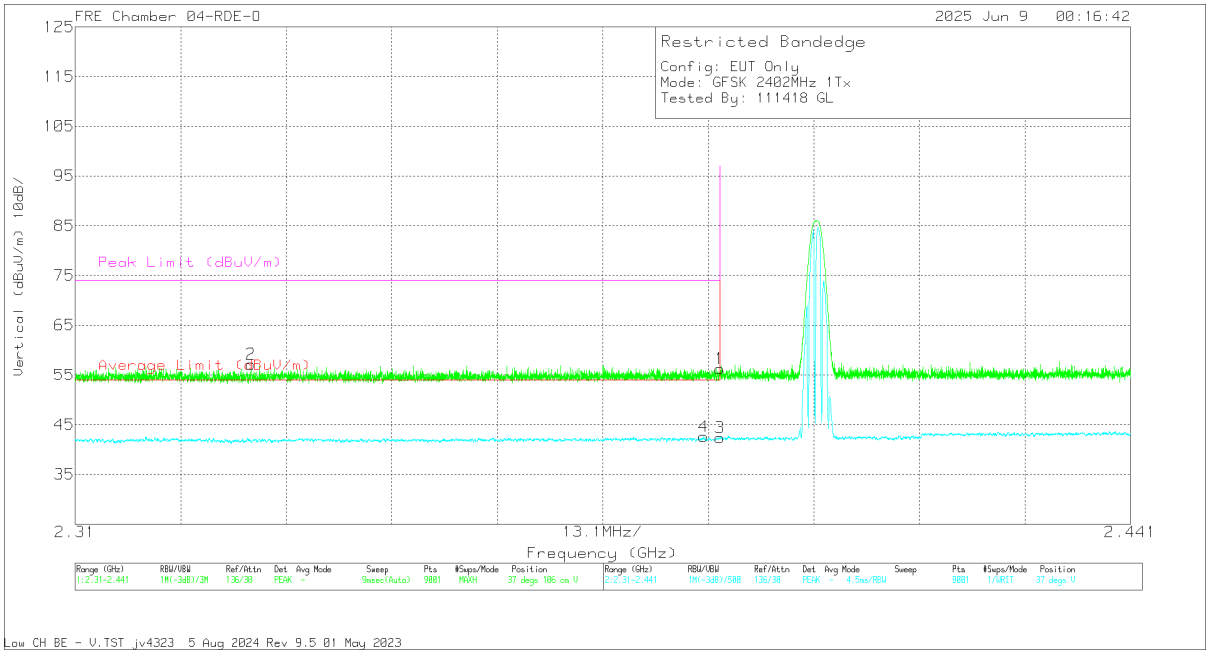
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.3	Pk	32.1	-37.08	55.32	-	-	74	-18.68	70	102	H
2	* 2.371397	63.05	Pk	32	-37.08	57.97	-	-	74	-16.03	70	102	H
3	* 2.39	47.12	VA1T	32.1	-37.08	42.14	54	-11.86	-	-	70	102	H
4	* 2.389912	47.7	VA1T	32.1	-37.08	42.72	54	-11.28	-	-	70	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.19	Pk	32.1	-37.08	56.21	-	-	74	-17.79	37	106	V
2	* 2.331805	62.39	Pk	31.8	-37.04	57.15	-	-	74	-16.85	37	106	V
3	* 2.39	47.33	VA1T	32.1	-37.08	42.35	54	-11.65	-	-	37	106	V
4	* 2.388035	47.56	VA1T	32.1	-37.08	42.58	54	-11.42	-	-	37	106	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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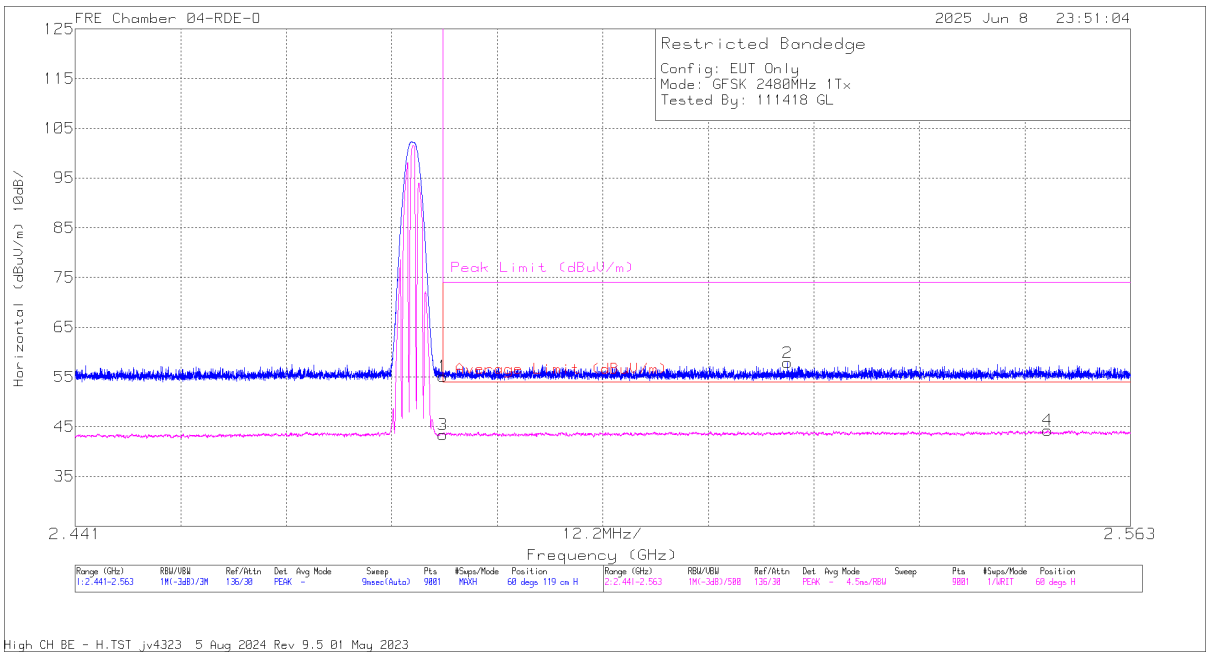
BANDEDGE (HIGH CHANNEL)

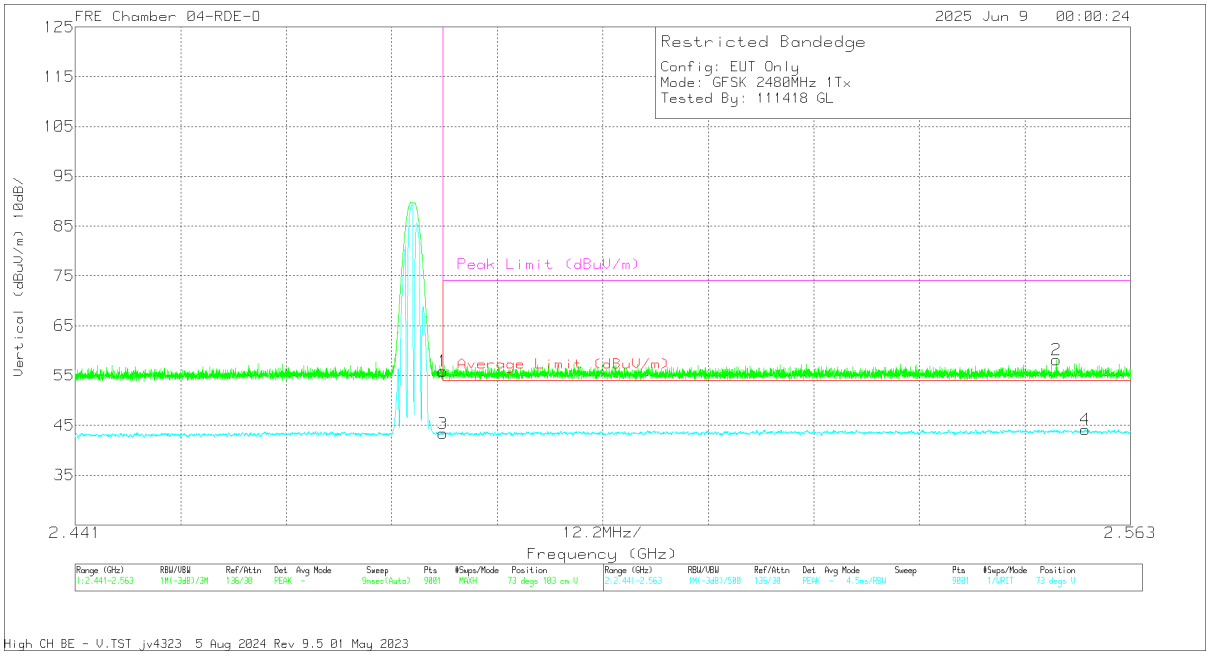
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.71	Pk	32.3	-36.91	55.1	-	-	74	-18.9	60	119	H
3	* 2.4835	47.99	VA1T	32.3	-36.91	43.38	54	-10.62	-	-	60	119	H
2	*2.52338	62.31	Pk	32.4	-36.87	57.84	-	-	74	-16.16	60	119	H
4	*2.553447	48.55	VA1T	32.4	-36.72	44.23	54	-9.77	-	-	60	119	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.46	Pk	32.3	-36.91	55.85	-	-	74	-18.15	73	103	V
3	* 2.4835	47.95	VA1T	32.3	-36.91	43.34	54	-10.66	-	-	73	103	V
2	*2.554423	62.47	Pk	32.4	-36.74	58.13	-	-	74	-15.87	73	103	V
4	*2.557771	48.53	VA1T	32.4	-36.8	44.13	54	-9.87	-	-	73	103	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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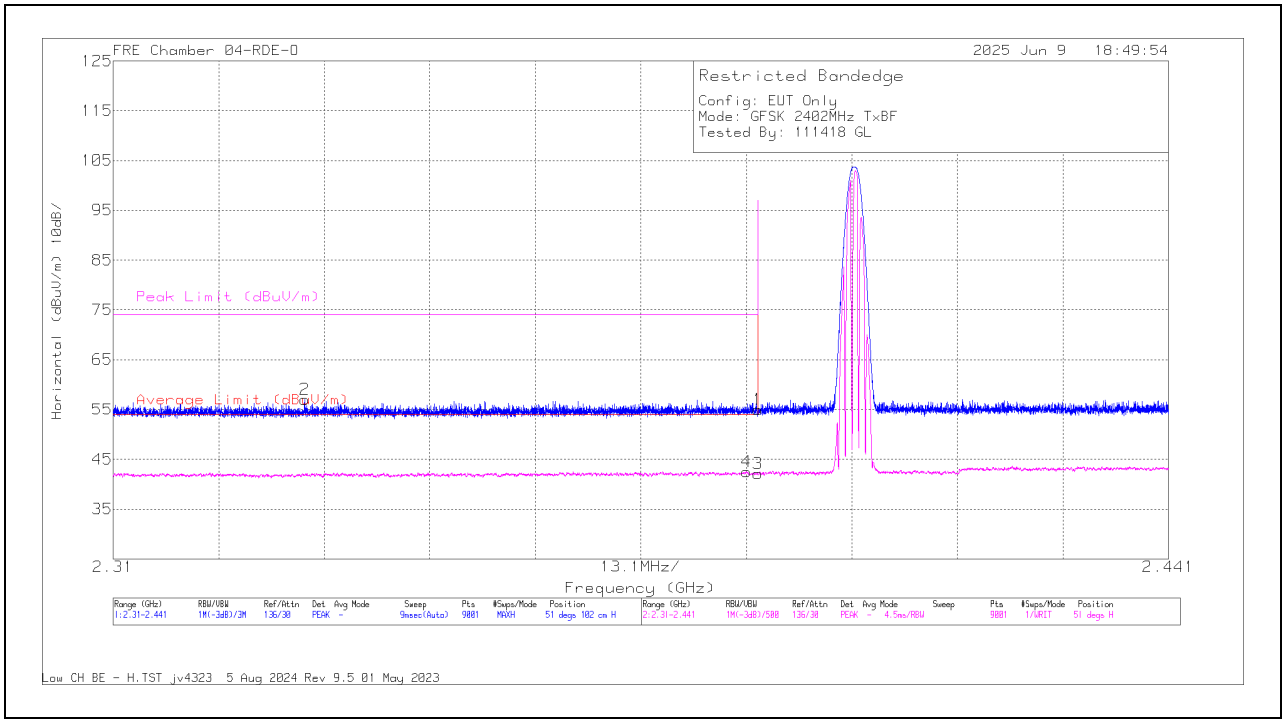
10.1.8. LOW POWER BASIC DATA RATE TXBF GFSK MODULATION

BANDEDGE (LOW CHANNEL)

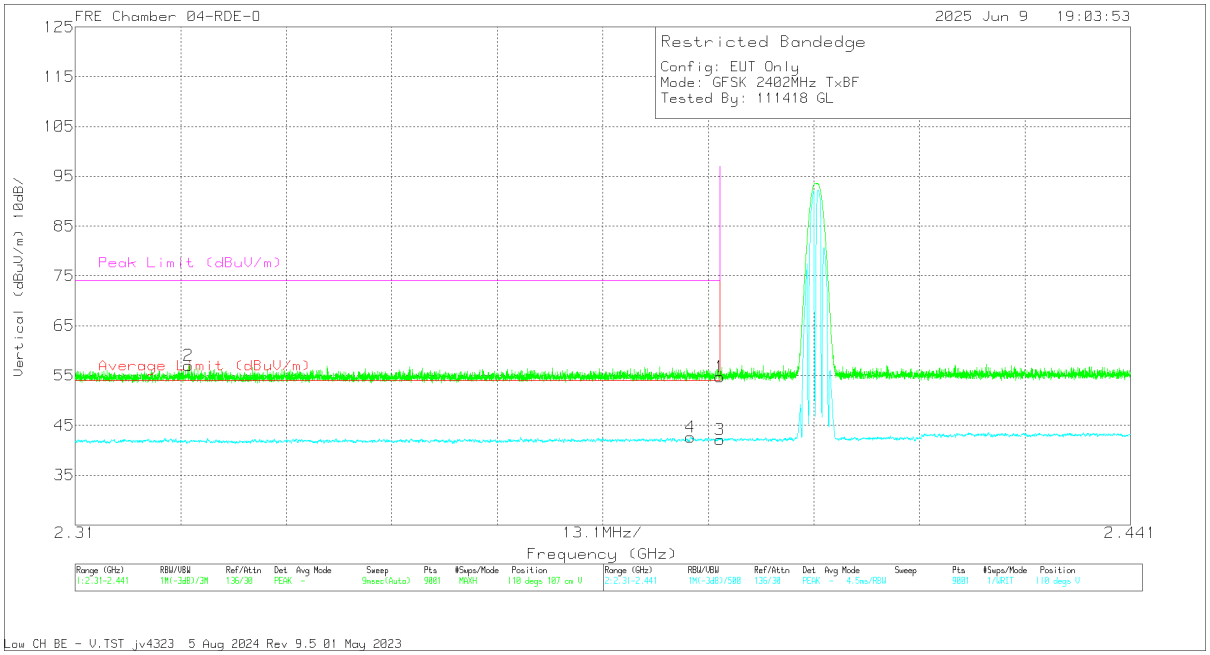
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.02	Pk	32.1	-37.08	55.04	-	-	74	-18.96	51	102	H
2	* 2.333755	62.28	Pk	31.8	-37.02	57.06	-	-	74	-16.94	51	102	H
3	* 2.39	47.09	VA1T	32.1	-37.08	42.11	54	-11.89	-	-	51	102	H
4	* 2.388617	47.52	VA1T	32.1	-37.08	42.54	54	-11.46	-	-	51	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.75	Pk	32.1	-37.08	54.77	-	-	74	-19.23	110	107	V
2	* 2.32409	62.3	Pk	31.8	-37.03	57.07	-	-	74	-16.93	110	107	V
3	* 2.39	47.16	VA1T	32.1	-37.08	42.18	54	-11.82	-	-	110	107	V
4	* 2.386361	47.61	VA1T	32.1	-37.11	42.6	54	-11.4	-	-	110	107	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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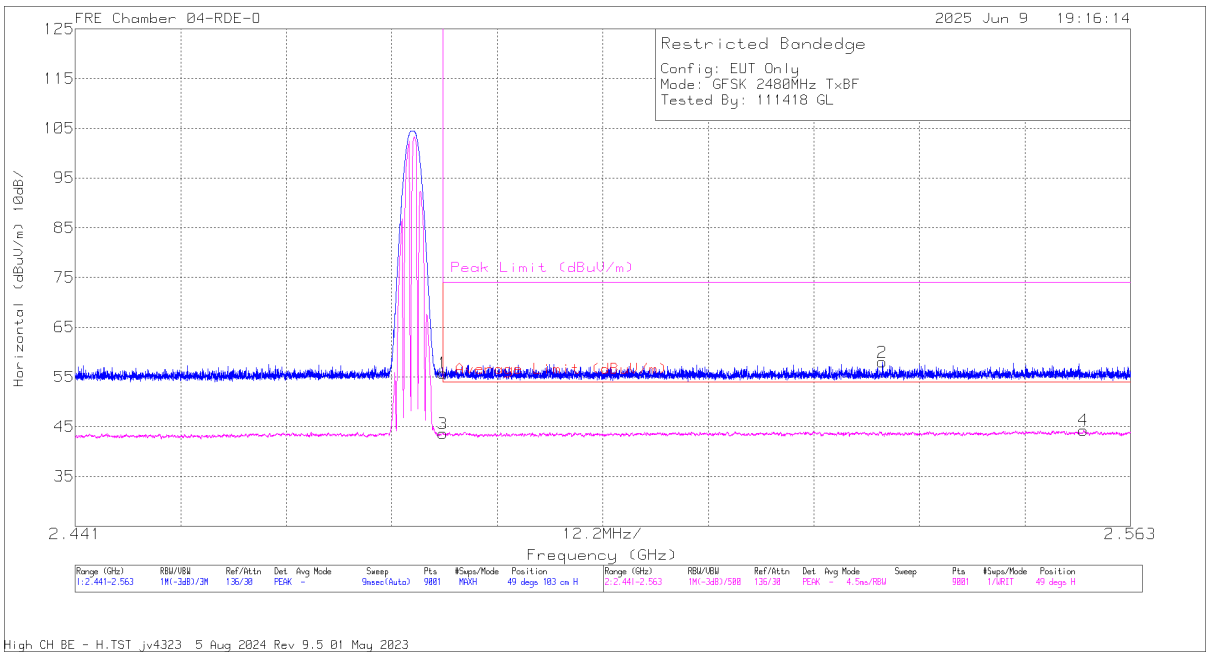
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.41	Pk	32.3	-36.91	55.8	-	-	74	-18.2	49	103	H
3	* 2.4835	48.19	VA1T	32.3	-36.91	43.58	54	-10.42	-	-	49	103	H
2	*2.534333	62.43	Pk	32.4	-36.87	57.96	-	-	74	-16.04	49	103	H
4	*2.557582	48.7	VA1T	32.4	-36.8	44.3	54	-9.7	-	-	49	103	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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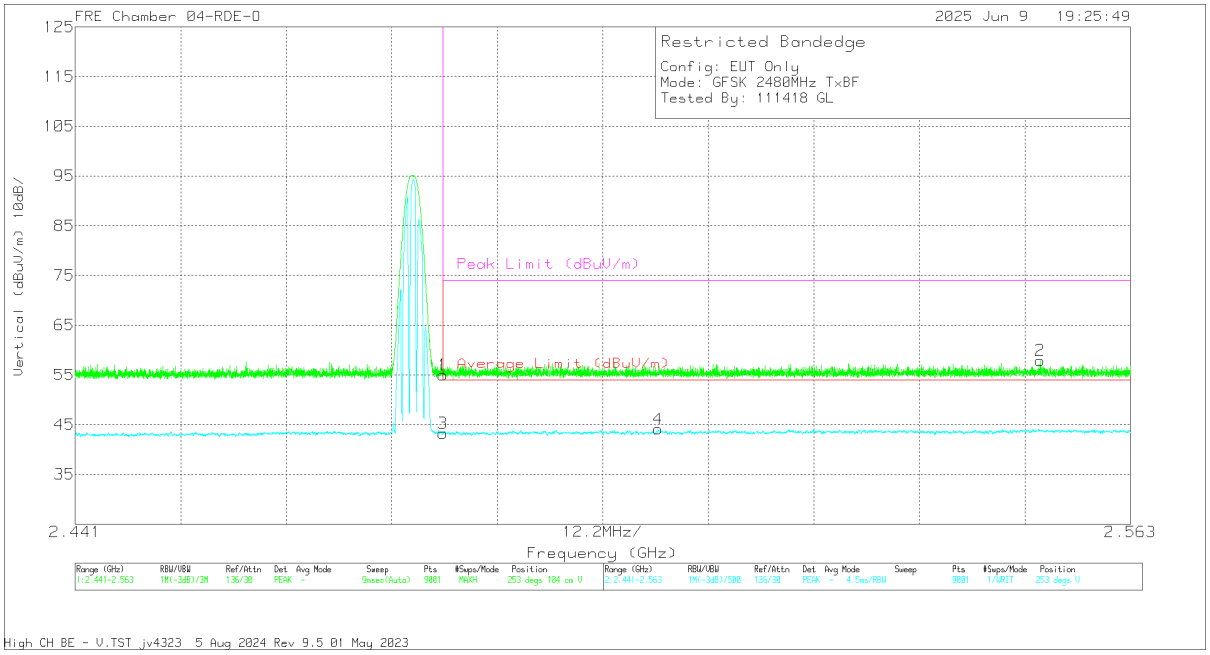
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.58	Pk	32.3	-36.91	54.97	-	-	74	-19.03	253	104	V
3	* 2.4835	47.91	VA1T	32.3	-36.91	43.3	54	-10.7	-	-	253	104	V
4	*2.5084	48.61	VA1T	32.4	-36.91	44.1	54	-9.9	-	-	253	104	V
2	*2.552566	62.2	Pk	32.4	-36.71	57.89	-	-	74	-16.11	253	104	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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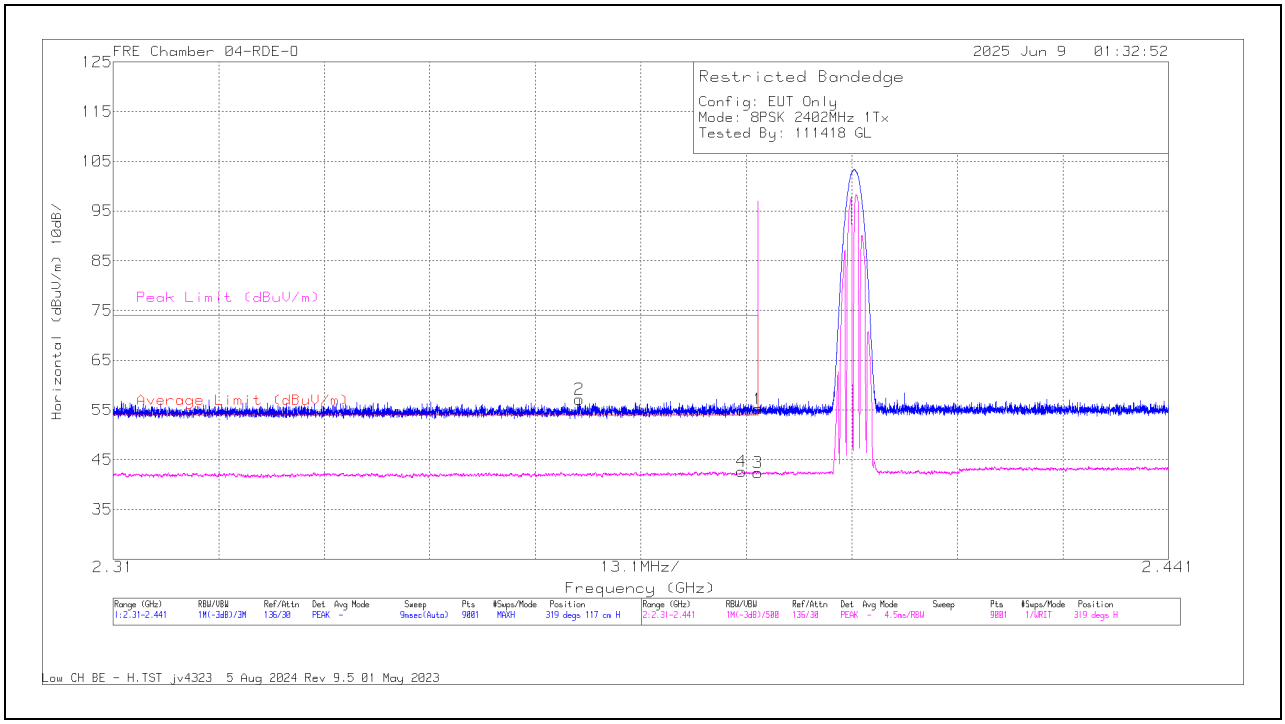
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

10.1.9. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 2

BANDEDGE (LOW CHANNEL)

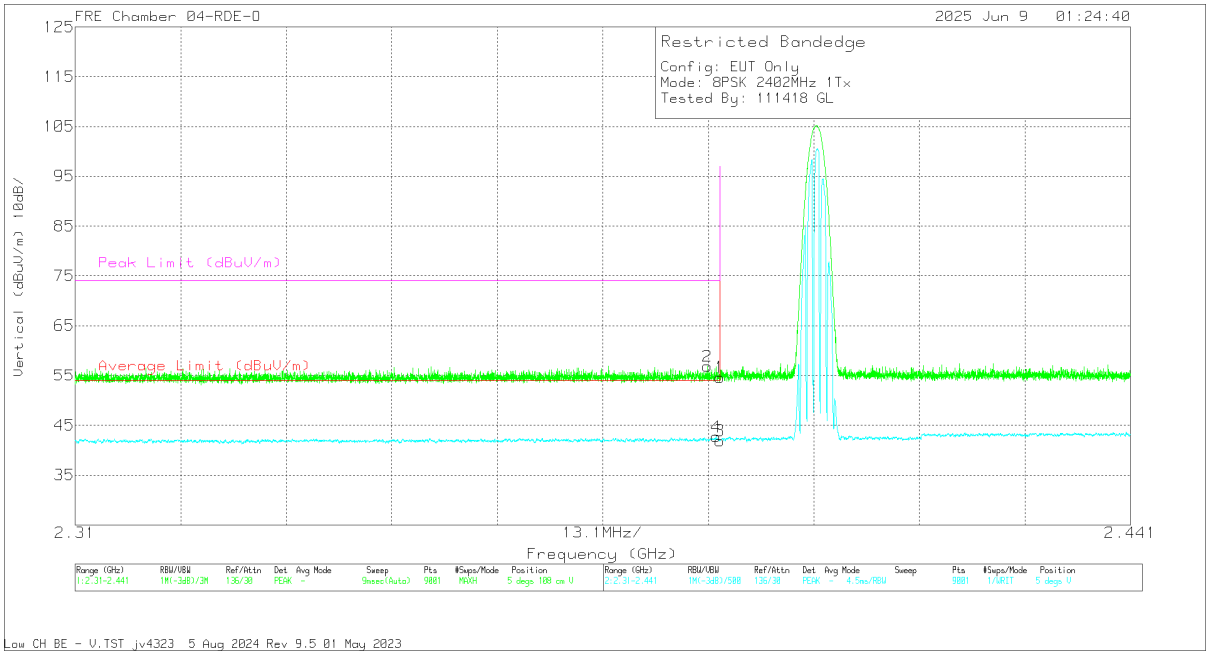
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.17	Pk	32.1	-37.08	55.19	-	-	74	-18.81	319	117	H
2	* 2.367846	62.3	Pk	32	-37.11	57.19	-	-	74	-16.81	319	117	H
3	* 2.39	47.37	VA1T	32.1	-37.08	42.39	54	-11.61	-	-	319	117	H
4	* 2.388049	47.59	VA1T	32.1	-37.08	42.61	54	-11.39	-	-	319	117	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.56	Pk	32.1	-37.08	54.58	-	-	74	-19.42	5	108	V
2	* 2.388486	61.81	Pk	32.1	-37.08	56.83	-	-	74	-17.17	5	108	V
3	* 2.39	46.82	VA1T	32.1	-37.08	41.84	54	-12.16	-	-	5	108	V
4	* 2.389549	47.68	VA1T	32.1	-37.08	42.7	54	-11.3	-	-	5	108	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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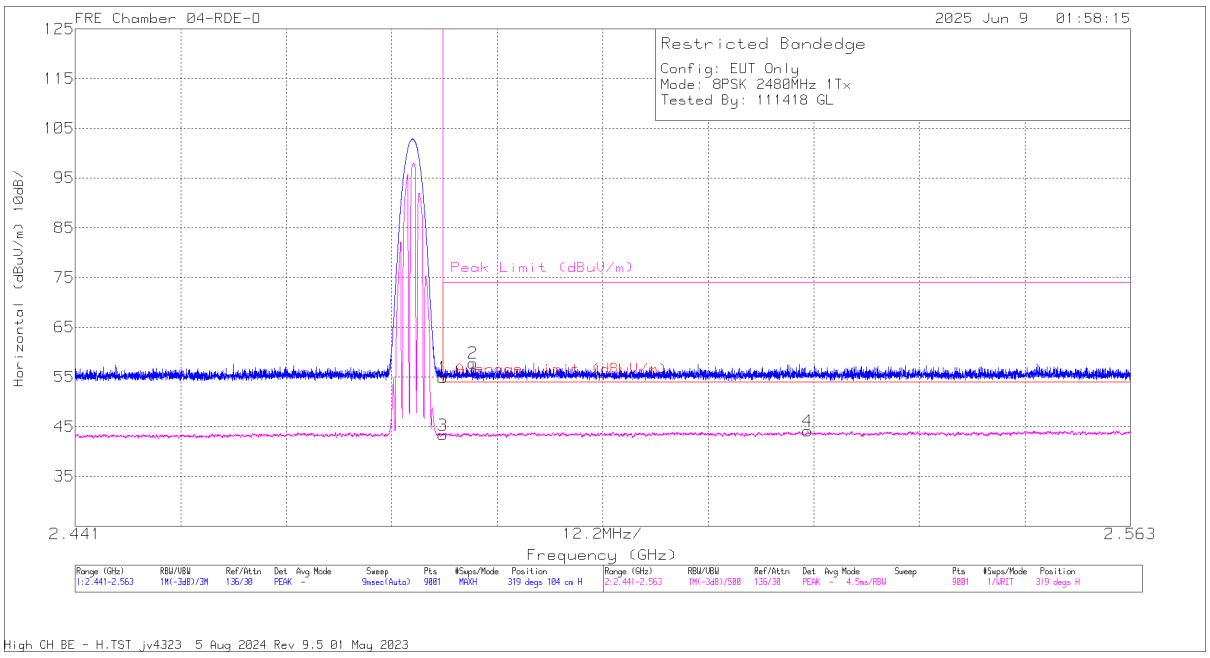
BANDEDGE (HIGH CHANNEL)

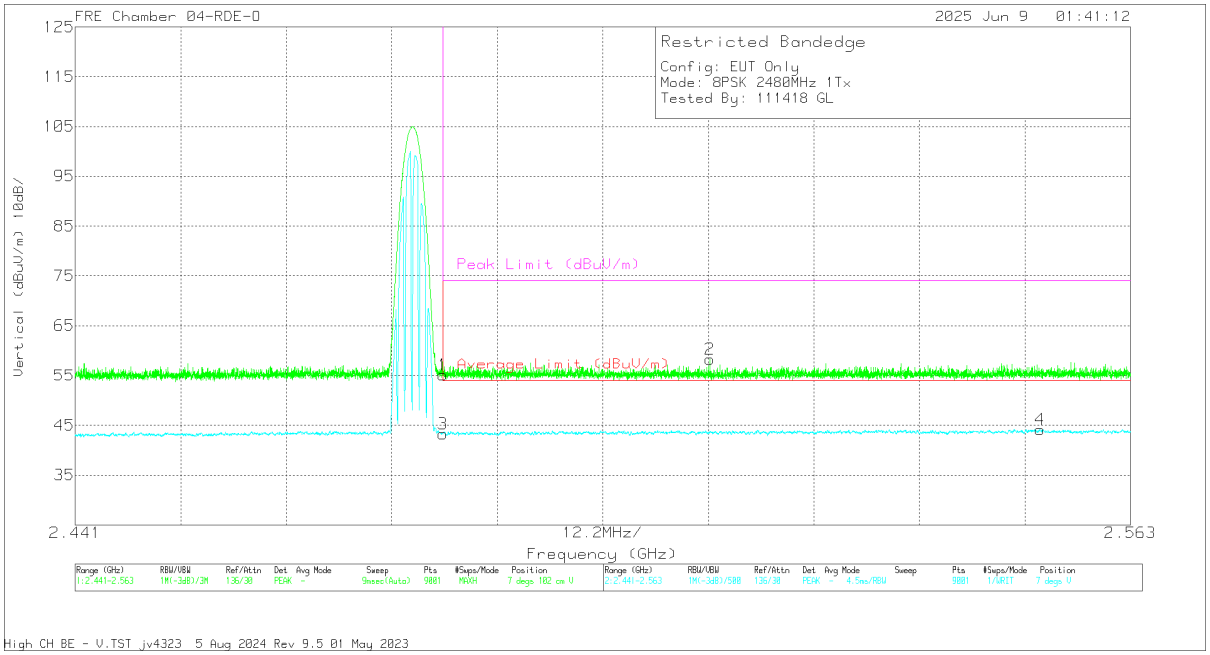
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.52	Pk	32.3	-36.91	54.91	-	-	74	-19.09	319	104	H
2	* 2.487023	62.37	Pk	32.3	-36.93	57.74	-	-	74	-16.26	319	104	H
3	* 2.4835	47.93	VA1T	32.3	-36.91	43.32	54	-10.68	-	-	319	104	H
4	*2.525684	48.66	VA1T	32.4	-36.87	44.19	54	-9.81	-	-	319	104	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.73	Pk	32.3	-36.91	55.12	-	-	74	-18.88	7	102	V
3	* 2.4835	47.9	VA1T	32.3	-36.91	43.29	54	-10.71	-	-	7	102	V
2	*2.514365	62.73	Pk	32.4	-36.88	58.25	-	-	74	-15.75	7	102	V
4	*2.552539	48.48	VA1T	32.4	-36.71	44.17	54	-9.83	-	-	7	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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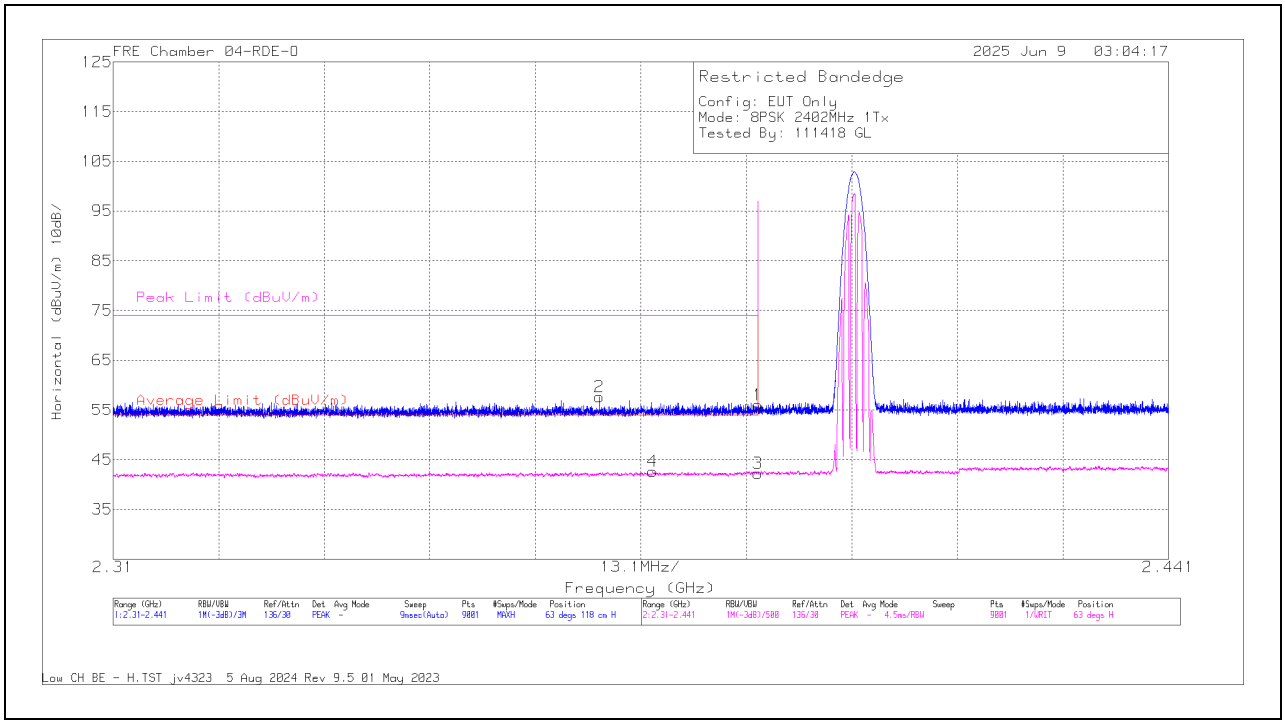
ANT 1

BANDEDGE (LOW CHANNEL)

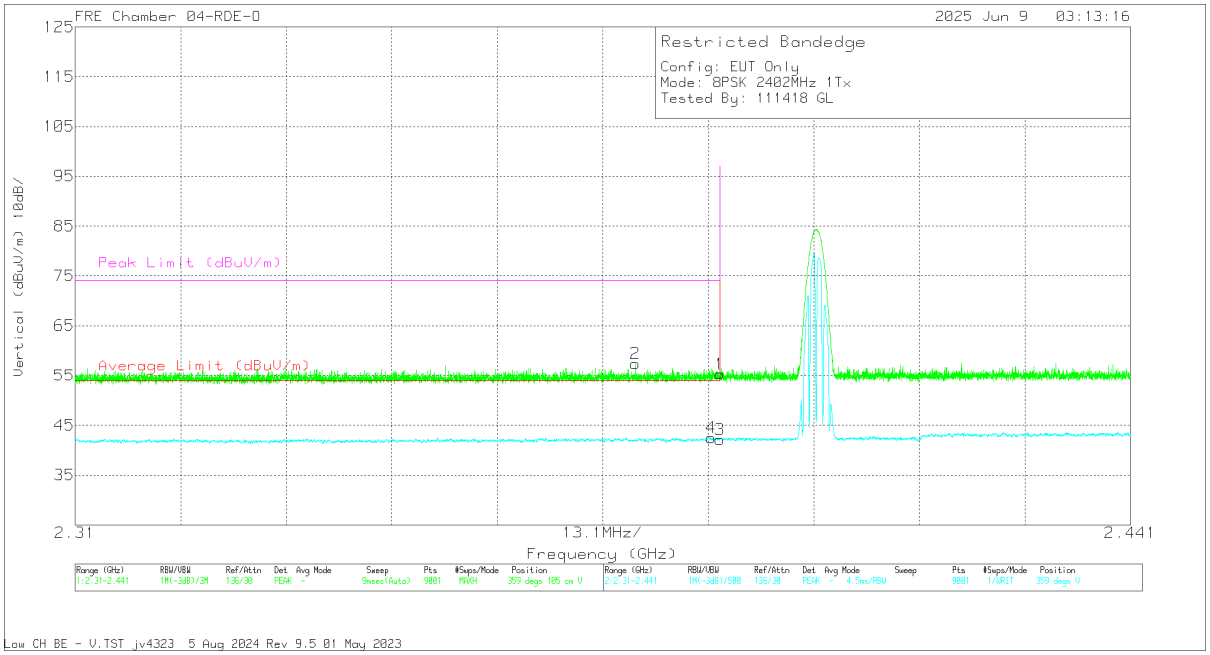
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.96	Pk	32.1	-37.08	55.98	-	-	74	-18.02	63	118	H
2	* 2.370349	62.72	Pk	32	-37.09	57.63	-	-	74	-16.37	63	118	H
3	* 2.39	47.25	VA1T	32.1	-37.08	42.27	54	-11.73	-	-	63	118	H
4	* 2.377001	47.75	VA1T	32	-37.11	42.64	54	-11.36	-	-	63	118	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.29	Pk	32.1	-37.08	55.31	-	-	74	-18.69	359	105	V
2	* 2.379519	62.54	Pk	32	-37.14	57.4	-	-	74	-16.6	359	105	V
3	* 2.39	47.11	VA1T	32.1	-37.08	42.13	54	-11.87	-	-	359	105	V
4	* 2.388923	47.53	VA1T	32.1	-37.08	42.55	54	-11.45	-	-	359	105	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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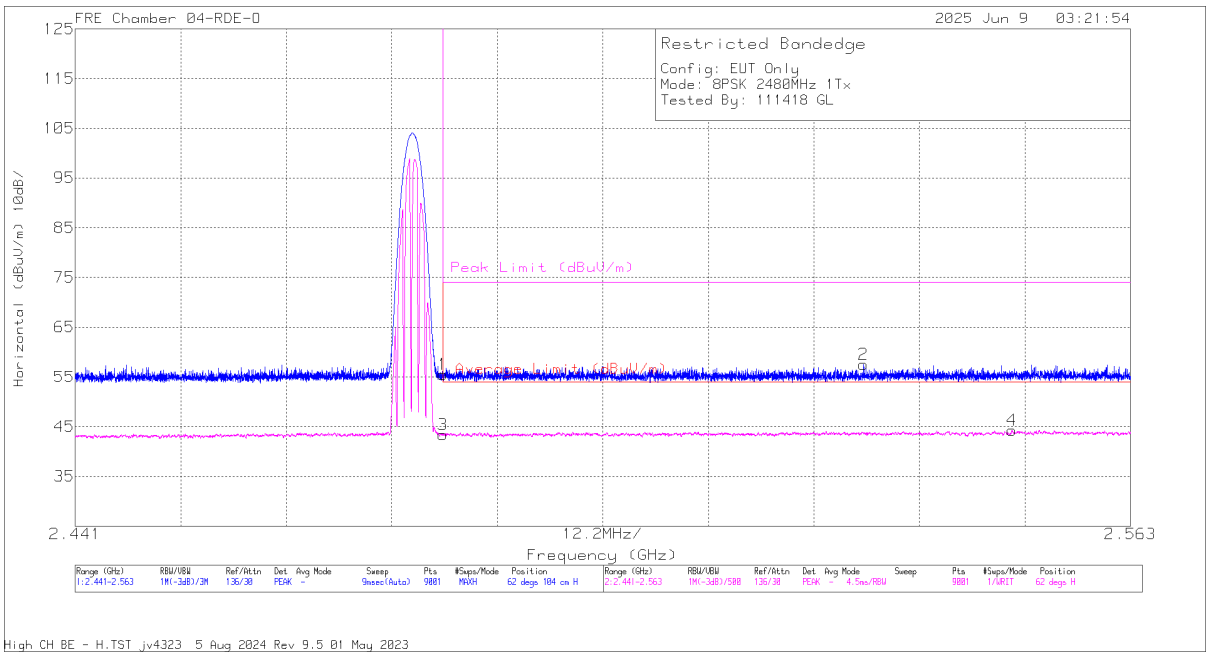
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.1	Pk	32.3	-36.91	55.49	-	-	74	-18.51	62	104	H
3	* 2.4835	47.97	VA1T	32.3	-36.91	43.36	54	-10.64	-	-	62	104	H
2	*2.532123	61.97	Pk	32.4	-36.89	57.48	-	-	74	-16.52	62	104	H
4	*2.549299	48.65	VA1T	32.4	-36.75	44.3	54	-9.7	-	-	62	104	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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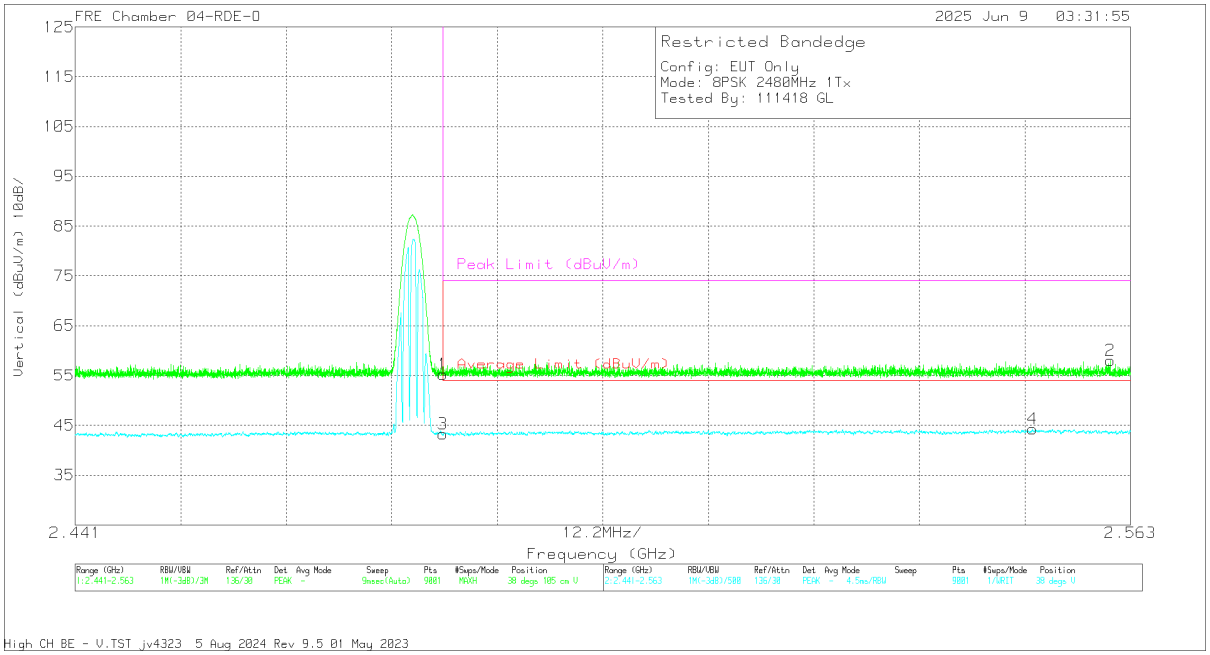
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.9	Pk	32.3	-36.91	55.29	-	-	74	-18.71	38	105	V
3	* 2.4835	47.92	VA1T	32.3	-36.91	43.31	54	-10.69	-	-	38	105	V
4	*2.551698	48.54	VA1T	32.4	-36.7	44.24	54	-9.76	-	-	38	105	V
2	*2.560645	62.44	Pk	32.4	-36.84	58	-	-	74	-16	38	105	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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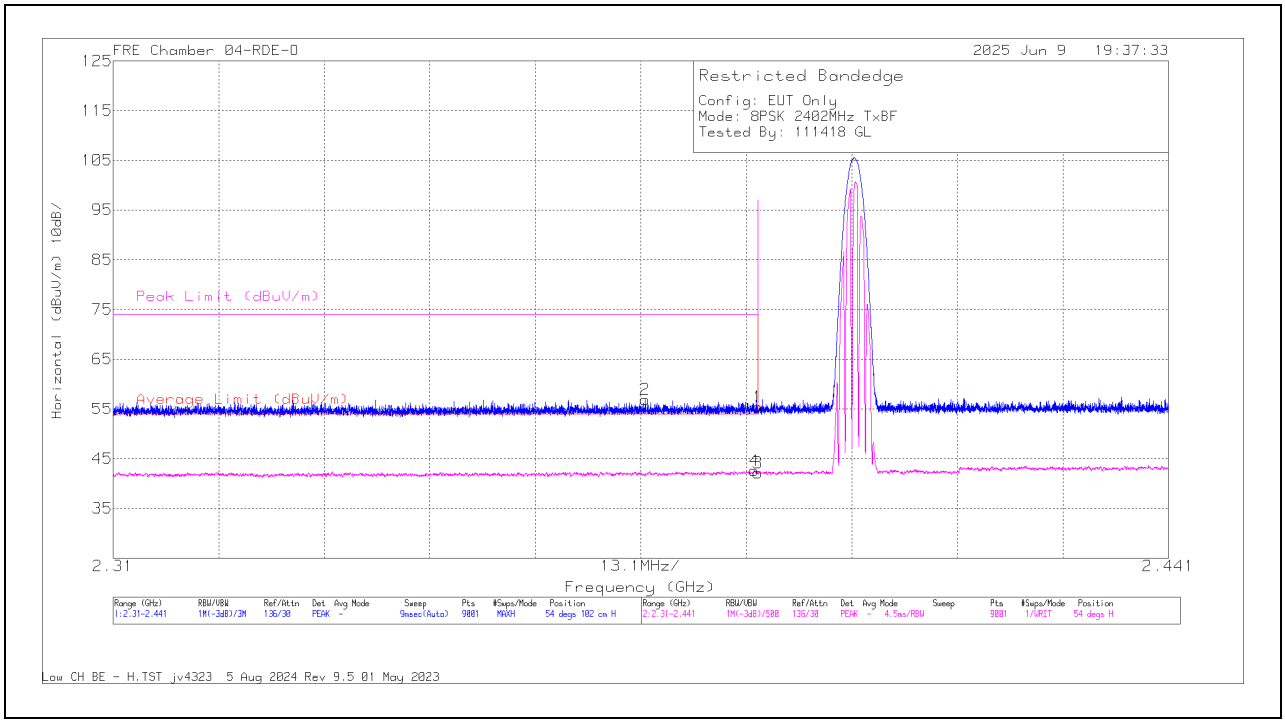
10.1.10. LOW POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	60.41	Pk	32.1	-37.08	55.43	-	-	74	-18.57	54	102	H
2	* 2.376011	61.98	Pk	32	-37.09	56.89	-	-	74	-17.11	54	102	H
3	* 2.39	47.1	VA1T	32.1	-37.08	42.12	54	-11.88	-	-	54	102	H
4	* 2.389607	47.56	VA1T	32.1	-37.08	42.58	54	-11.42	-	-	54	102	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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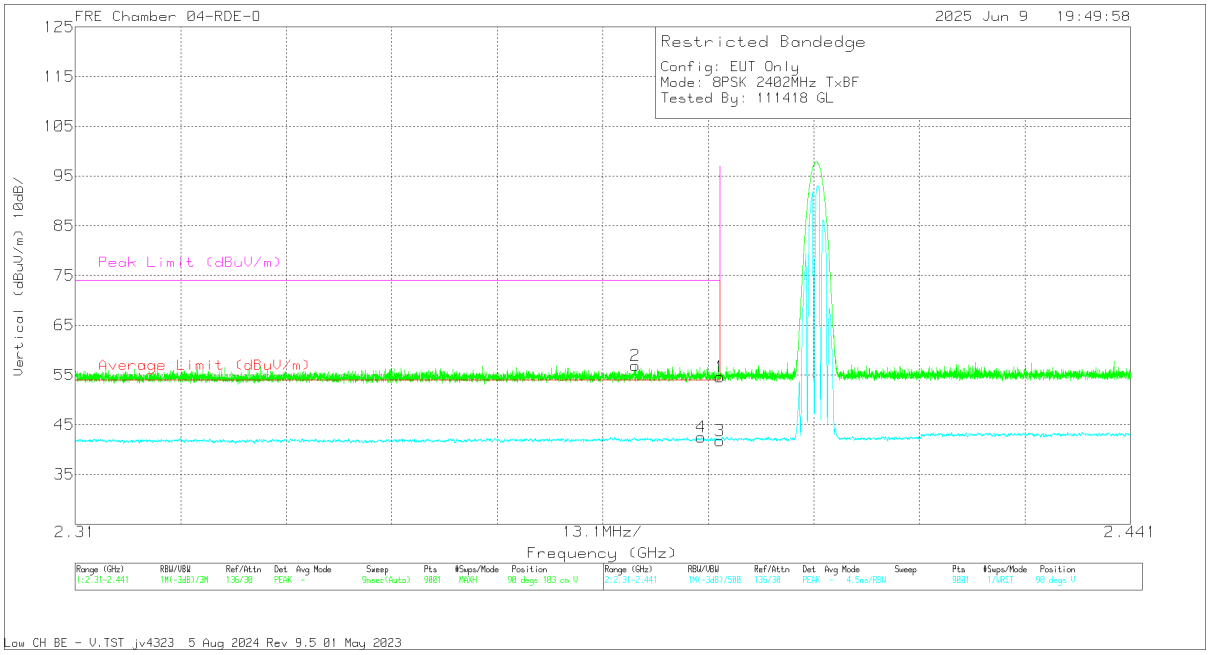
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.61	Pk	32.1	-37.08	54.63	-	-	74	-19.37	90	103	V
2	* 2.379505	62	Pk	32	-37.14	56.86	-	-	74	-17.14	90	103	V
3	* 2.39	46.75	VA1T	32.1	-37.08	41.77	54	-12.23	-	-	90	103	V
4	* 2.387714	47.48	VA1T	32.1	-37.09	42.49	54	-11.51	-	-	90	103	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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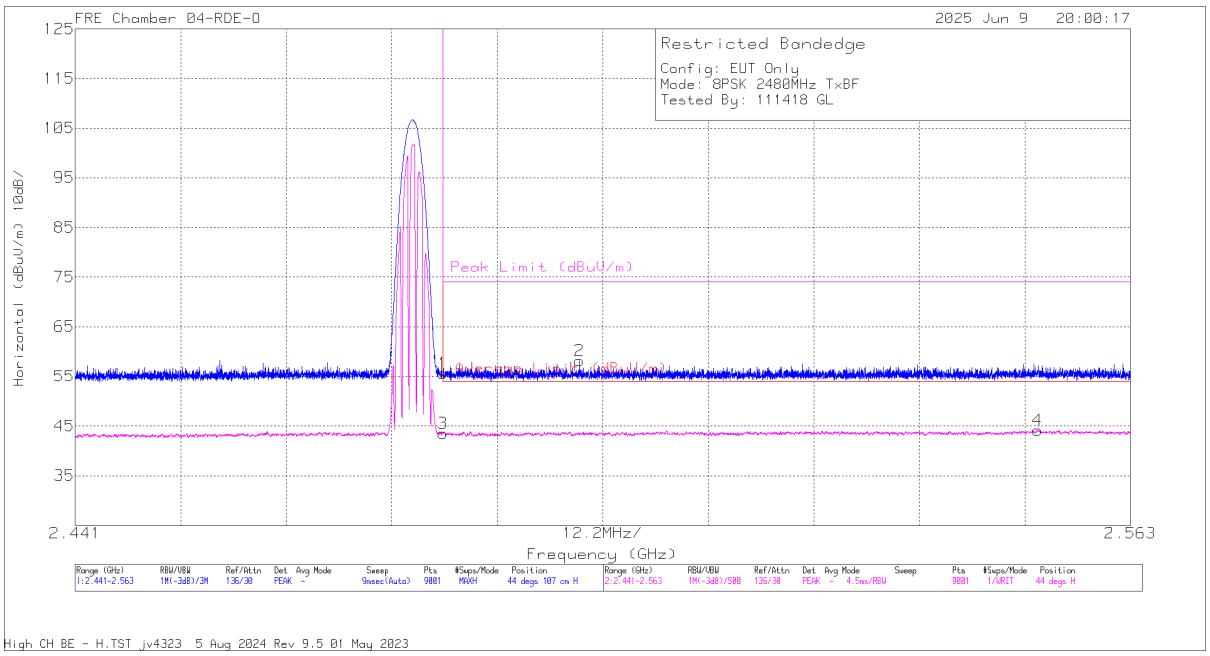
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.26	Pk	32.3	-36.91	55.65	-	-	74	-18.35	44	107	H
2	* 2.499318	62.64	Pk	32.4	-36.9	58.14	-	-	74	-15.86	44	107	H
3	* 2.4835	48.15	VA1T	32.3	-36.91	43.54	54	-10.46	-	-	44	107	H
4	*2.552254	48.5	VA1T	32.4	-36.71	44.19	54	-9.81	-	-	44	107	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

UL VERIFICATION SERVICES INC.
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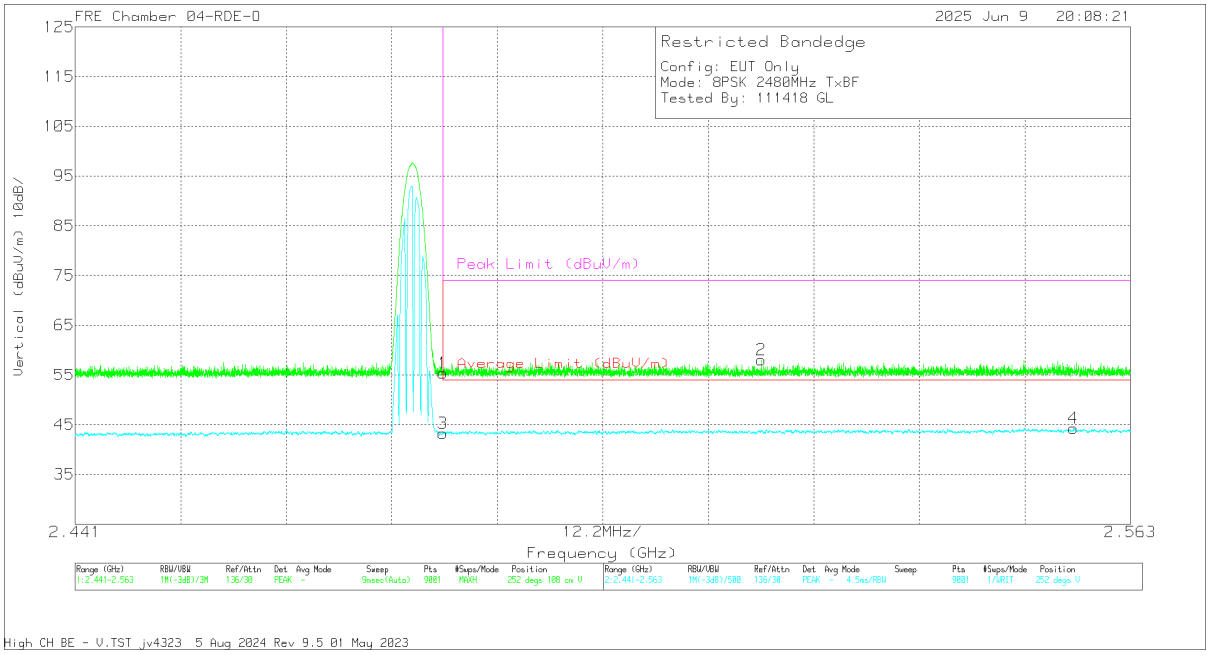
VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.99	Pk	32.3	-36.91	55.38	-	-	74	-18.62	252	108	V
3	* 2.4835	47.87	VA1T	32.3	-36.91	43.26	54	-10.74	-	-	252	108	V
2	*2.52033	62.56	Pk	32.4	-36.9	58.06	-	-	74	-15.94	252	108	V
4	*2.556429	48.66	VA1T	32.4	-36.78	44.28	54	-9.72	-	-	252	108	V

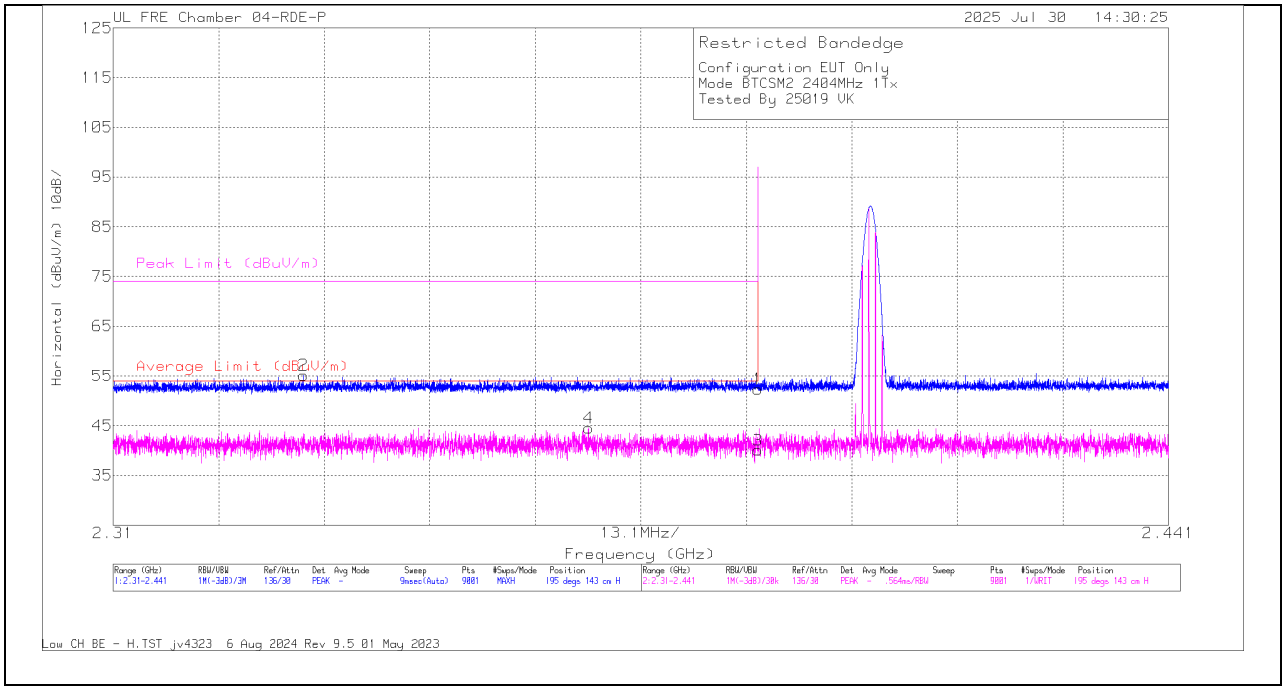
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.11. LOW POWER ENHANCED DATA RATE BTCSM2 MODULATION

ANT 2

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

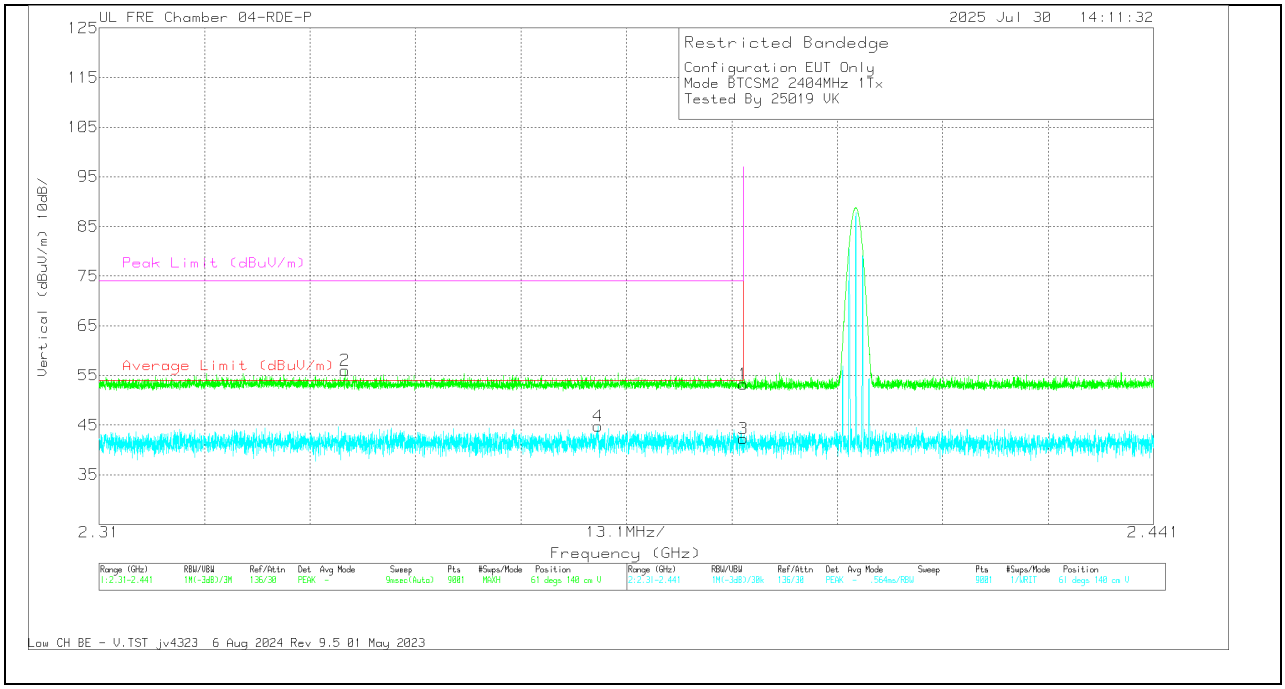


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.33361	63.1	Pk	31.9	-39.84	55.16	-	-	74	-18.84	195	143	H
4	*2.368995	52.36	VA1T	32	-39.79	44.57	54	-9.43	-	-	195	143	H
1	*2.39	60.15	Pk	32	-39.79	52.36	-	-	74	-21.64	195	143	H
3	*2.39	47.85	VA1T	32	-39.79	40.06	54	-13.94	-	-	195	143	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.340524	63.9	Pk	31.9	-39.8	56	-	-	74	-18	61	140	V
4	*2.372009	52.57	VA1T	32	-39.78	44.79	54	-9.21	-	-	61	140	V
1	*2.39	60.99	Pk	32	-39.79	53.2	-	-	74	-20.8	61	140	V
3	*2.39	50.02	VA1T	32	-39.79	42.23	54	-11.77	-	-	61	140	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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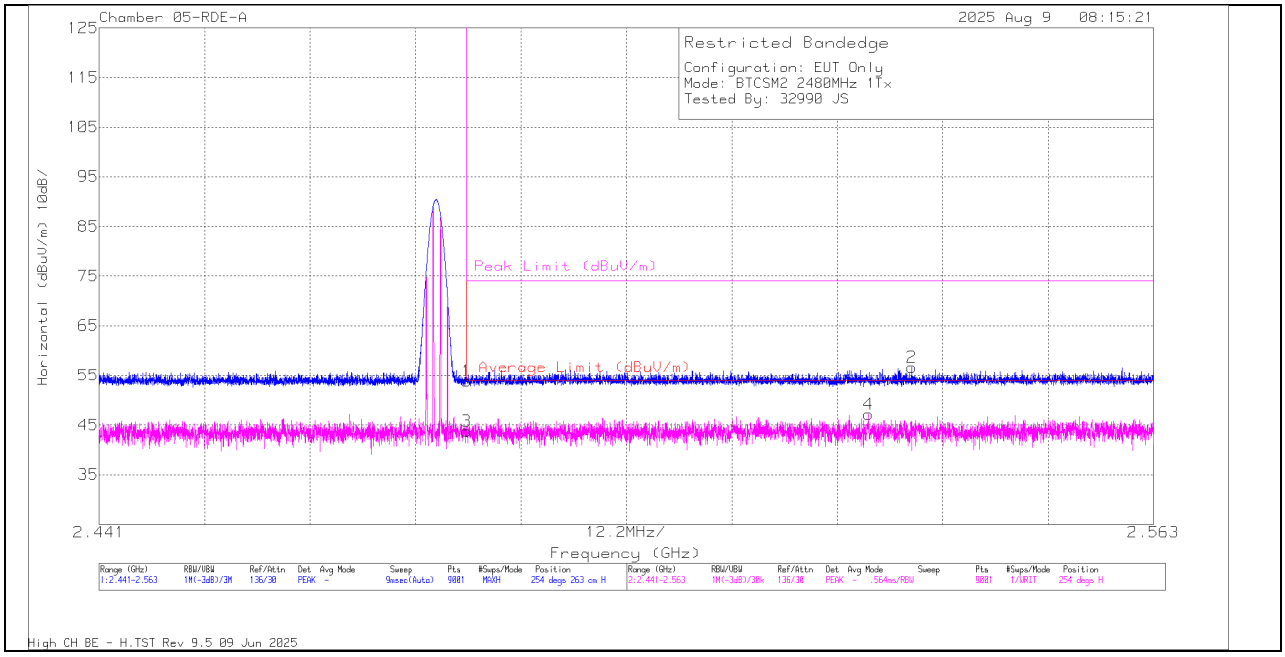
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

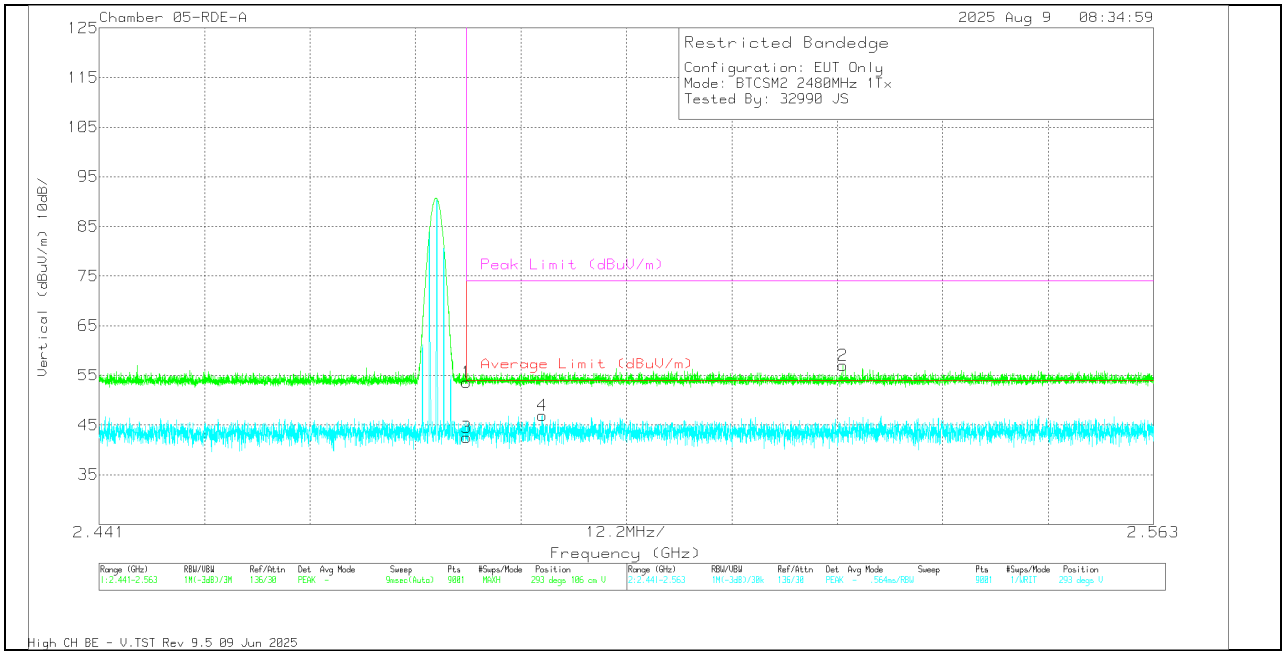


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.56	Pk	32.7	-39.4	53.86	-	-	74	-20.14	254	263	H
3	* 2.4835	50.52	VA1T	32.7	-39.4	43.82	54	-10.18	-	-	254	263	H
4	2.530036	53.72	VA1T	32.8	-39.3	47.22	54	-6.78	-	-	254	263	H
2	2.534997	63.39	Pk	32.8	-39.5	56.69	-	-	74	-17.31	254	263	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.36	Pk	32.7	-39.4	53.66	-	-	74	-20.34	293	106	V
3	* 2.4835	49.2	VA1T	32.7	-39.4	42.5	54	-11.5	-	-	293	106	V
4	* 2.492255	53.68	VA1T	32.7	-39.47	46.91	54	-7.09	-	-	293	106	V
2	2.527081	63.58	Pk	32.8	-39.39	56.99	-	-	74	-17.01	293	106	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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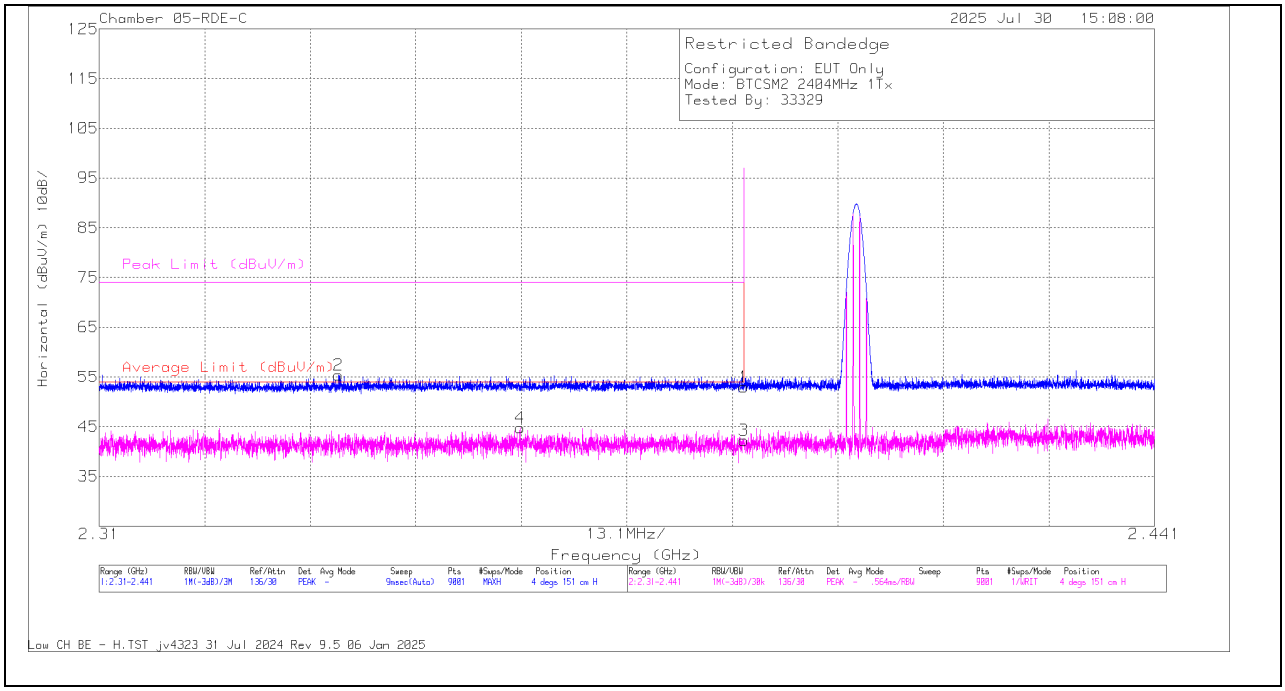
ANT 1

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT

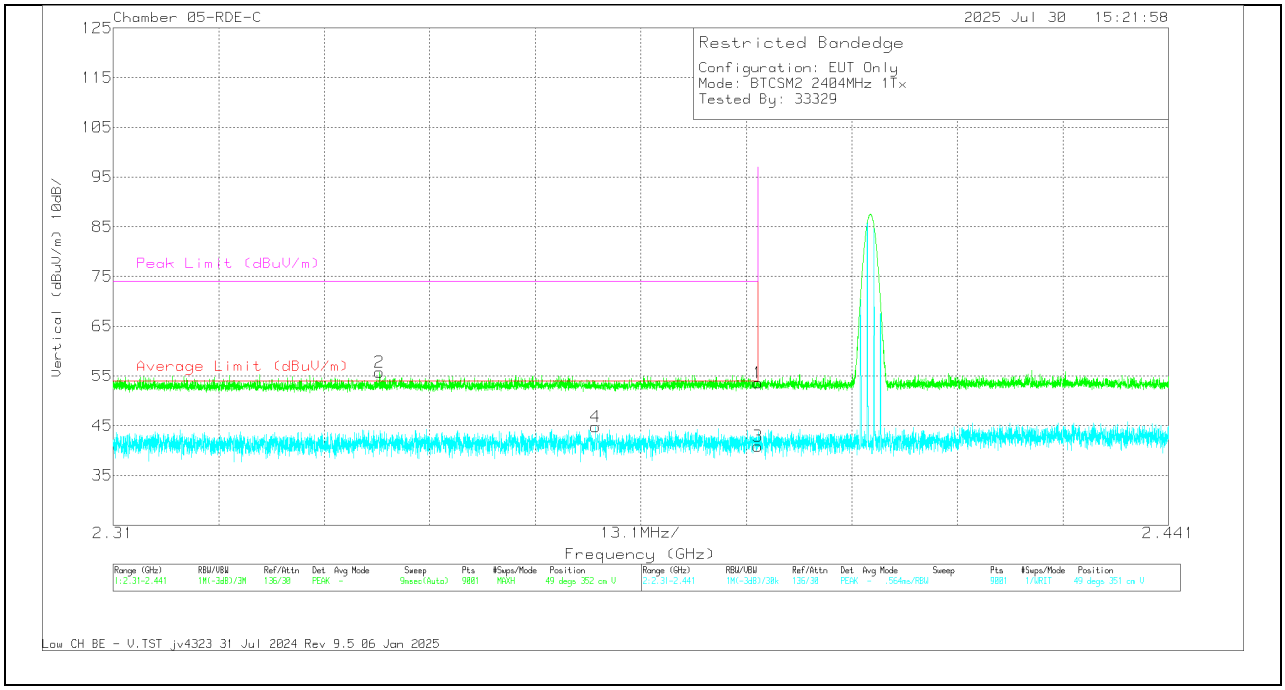


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.33968	63.81	Pk	31.8	-40.22	55.39	-	-	74	-18.61	4	151	H
4	*2.362227	53.14	VA1T	31.9	-40.22	44.82	54	-9.18	-	-	4	151	H
1	*2.39	61.37	Pk	32	-40.36	53.01	-	-	74	-20.99	4	151	H
3	*2.39	50.65	VA1T	32	-40.36	42.29	54	-11.71	-	-	4	151	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*2.343071	64.02	Pk	31.8	-40.11	55.71	-	-	74	-18.29	49	352	V
4	*2.369883	53.18	VA1T	31.9	-40.26	44.82	54	-9.18	-	-	49	351	V
1	*2.39	61.99	Pk	32	-40.36	53.63	-	-	74	-20.37	49	352	V
3	*2.39	49.28	VA1T	32	-40.36	40.92	54	-13.08	-	-	49	351	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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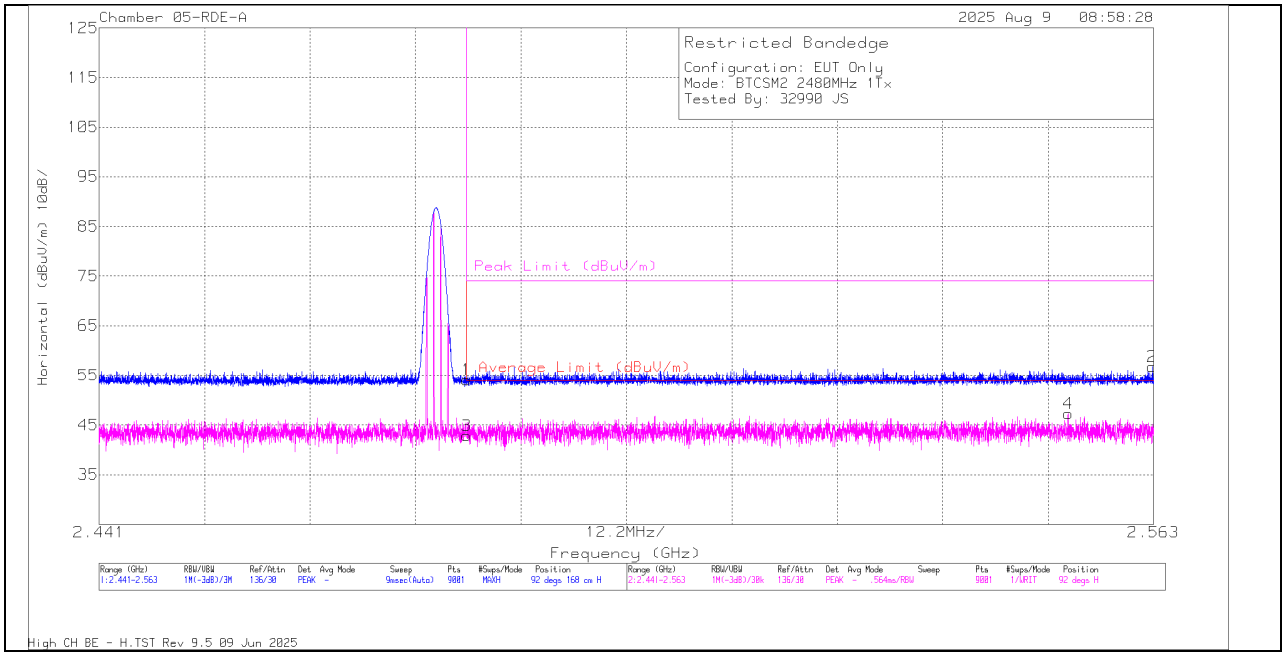
BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT

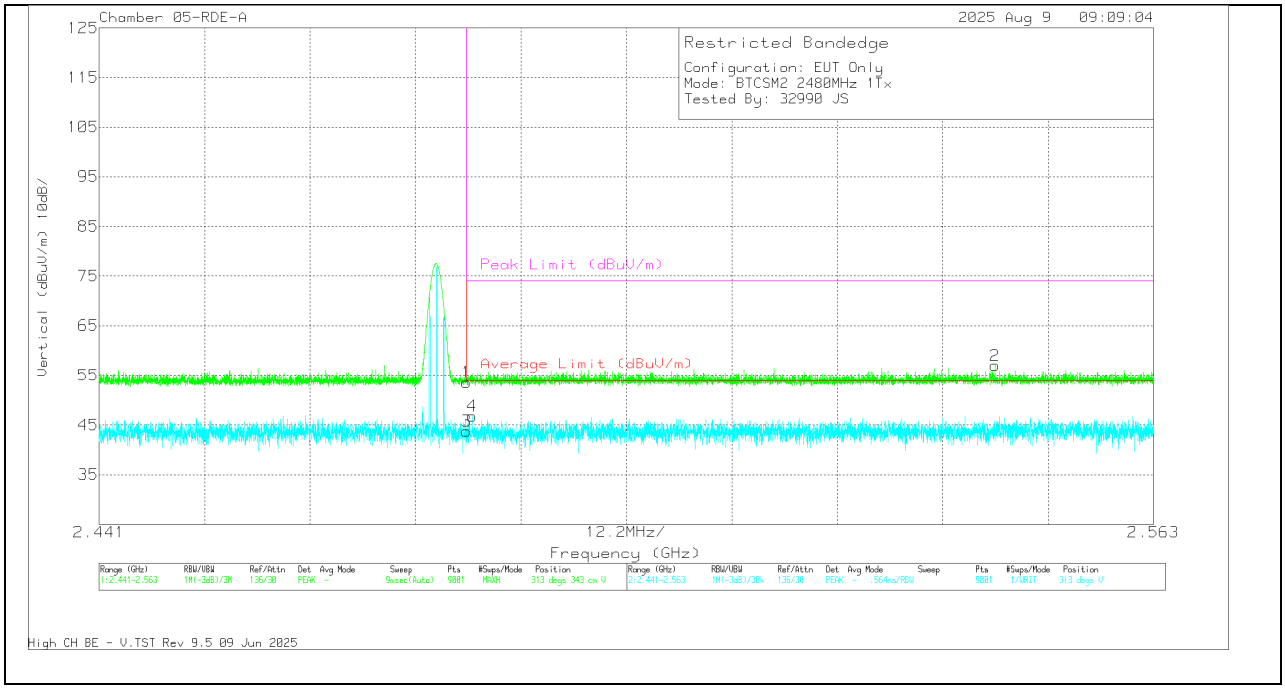


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.79	Pk	32.7	-39.4	54.09	-	-	74	-19.91	92	168	H
3	* 2.4835	49.54	VA1T	32.7	-39.4	42.84	54	-11.16	-	-	92	168	H
4	2.553108	53.8	VA1T	32.8	-39.3	47.3	54	-6.7	-	-	92	168	H
2	2.562882	63.23	Pk	32.8	-39.3	56.73	-	-	74	-17.27	92	168	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.32	Pk	32.7	-39.4	53.62	-	-	74	-20.38	313	343	V
3	* 2.4835	50.42	VA1T	32.7	-39.4	43.72	54	-10.28	-	-	313	343	V
4	* 2.484162	53.5	VA1T	32.7	-39.4	46.8	54	-7.2	-	-	313	343	V
2	2.544649	63.52	Pk	32.8	-39.36	56.96	-	-	74	-17.04	313	343	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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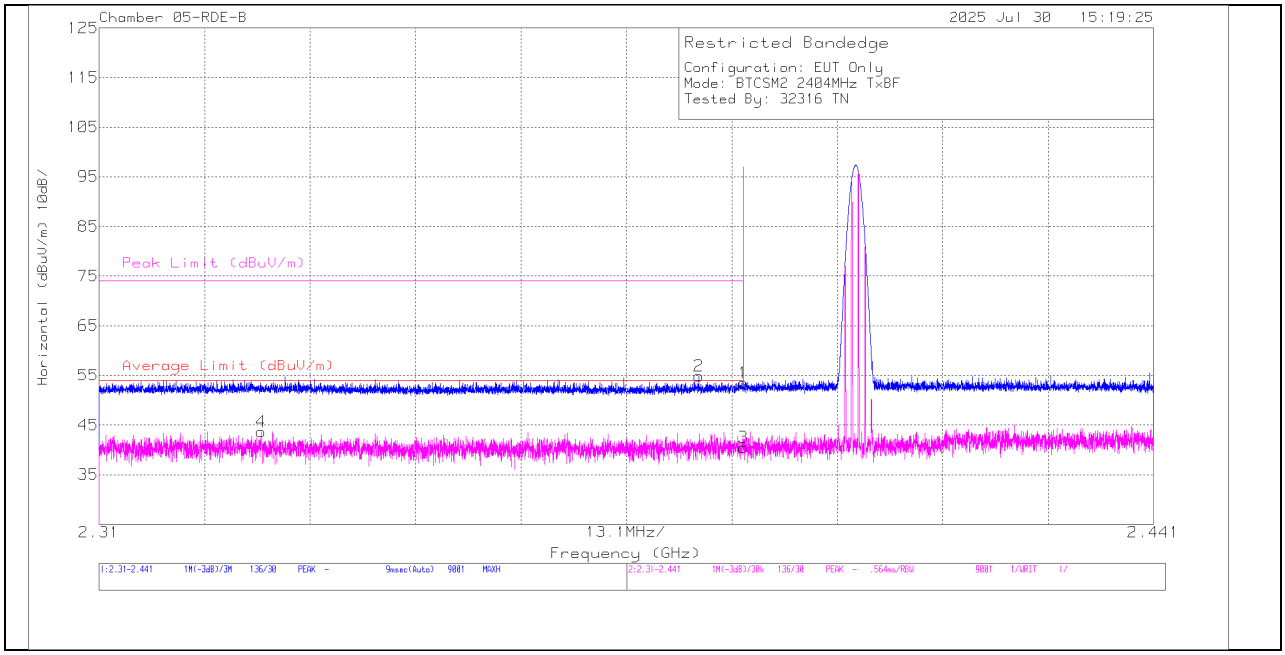
10.1.12. LOW POWER ENHANCED DATA RATE TXBF BTCSM2 MODULATION

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*2.330116	52.45	VA1T	31.8	-40.59	43.66	54	-10.34	-	-	83	112	H
2	*2.384483	63.28	Pk	32	-40.41	54.87	-	-	74	-19.13	83	112	H
1	*2.39	61.86	Pk	32	-40.39	53.47	-	-	74	-20.53	83	112	H
3	*2.39	48.84	VA1T	32	-40.39	40.45	54	-13.55	-	-	83	112	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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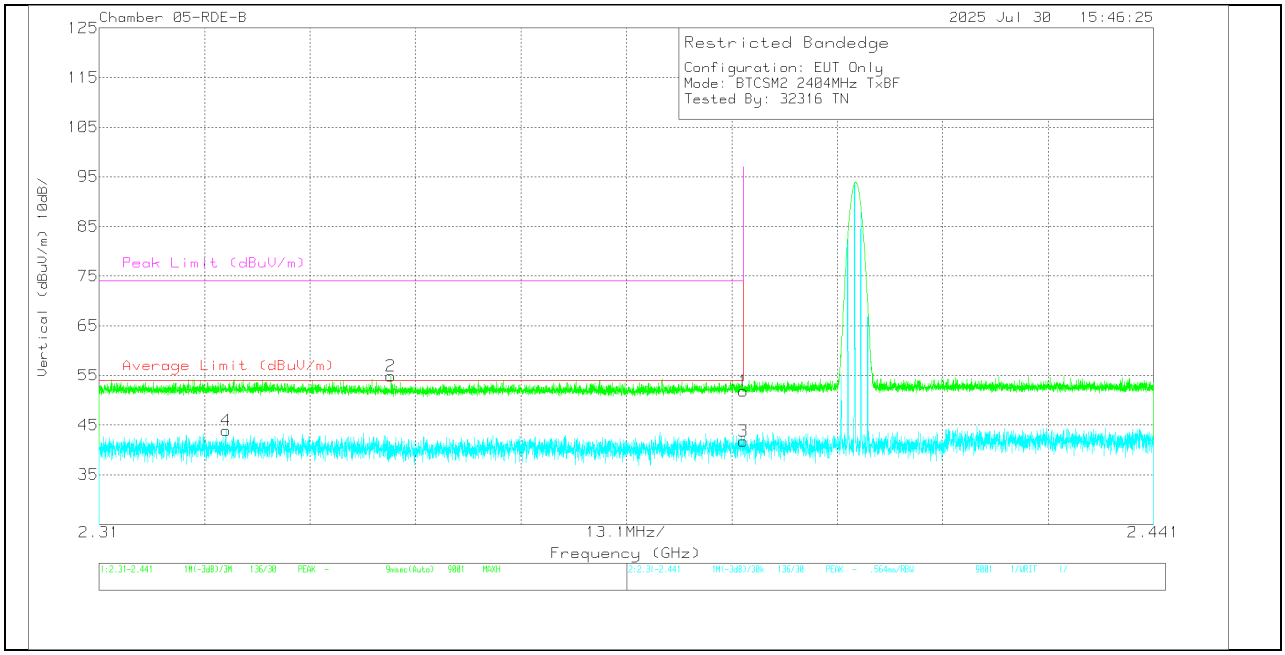
VERTICAL RESULT



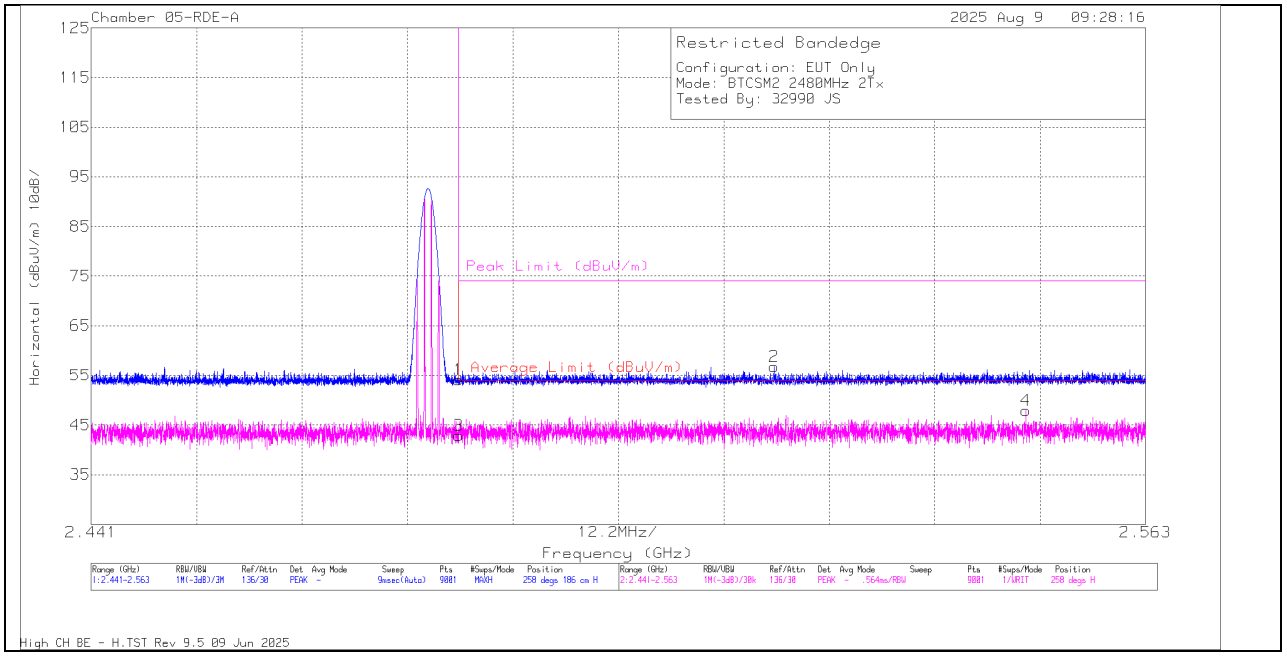
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*2.32575	52.76	VA1T	31.7	-40.6	43.86	54	-10.14	-	-	131	397	V
2	*2.346259	63.71	Pk	31.8	-40.6	54.91	-	-	74	-19.09	131	397	V
1	*2.39	60.24	Pk	32	-40.39	51.85	-	-	74	-22.15	131	397	V
3	*2.39	50.11	VA1T	32	-40.39	41.72	54	-12.28	-	-	131	397	V

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.78	Pk	32.7	-39.4	54.08	-	-	74	-19.92	258	186	H
3	* 2.4835	49.58	VA1T	32.7	-39.4	42.88	54	-11.12	-	-	258	186	H
2	2.520045	63.34	Pk	32.8	-39.4	56.74	-	-	74	-17.26	258	186	H
4	2.549136	54.49	VA1T	32.8	-39.39	47.9	54	-6.1	-	-	258	186	H

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

Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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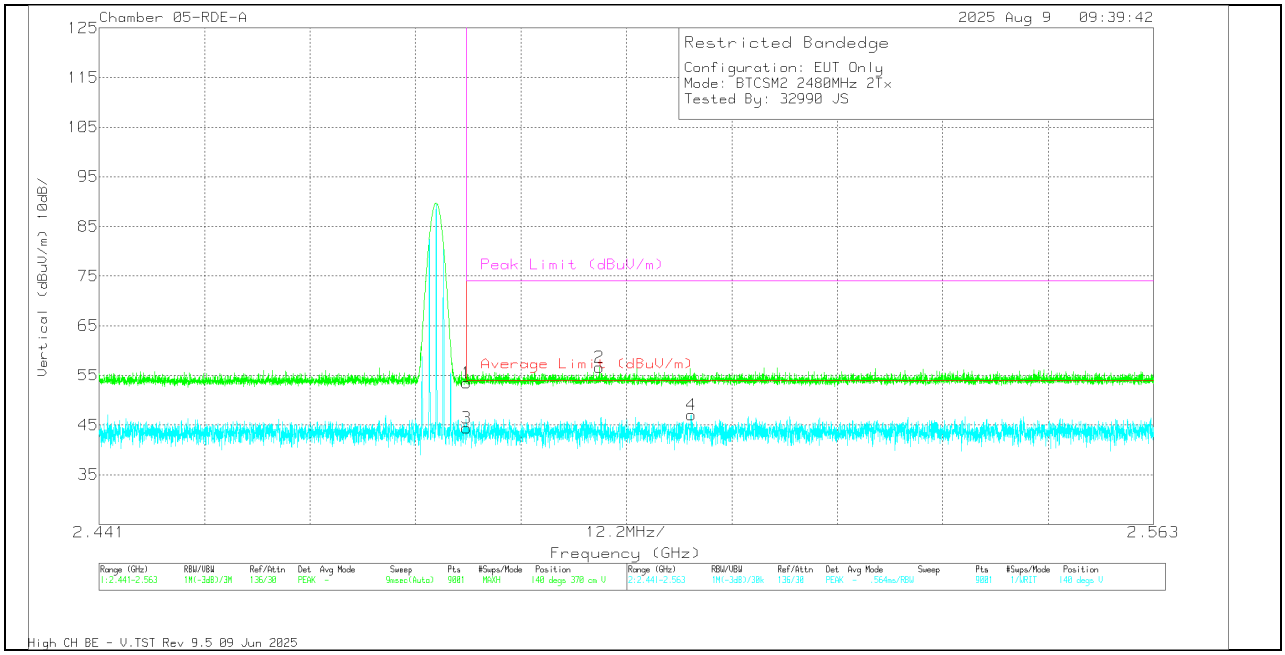
VERTICAL RESULT



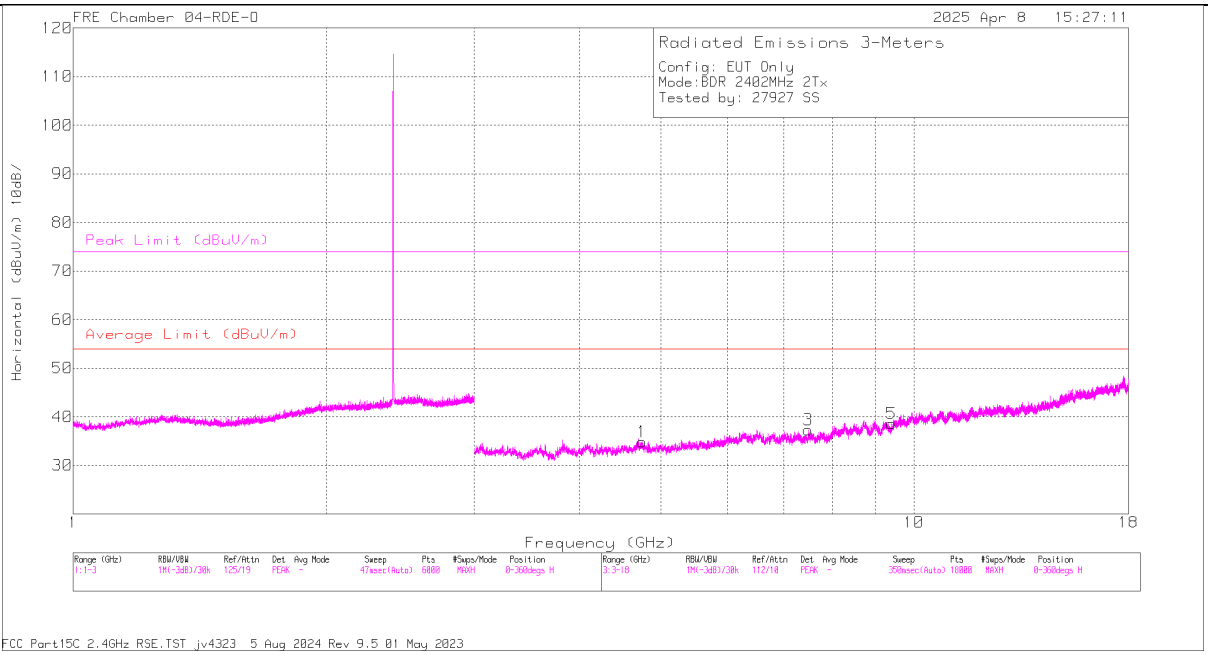
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226671 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.14	Pk	32.7	-39.4	53.44	-	-	74	-20.56	140	370	V
2	* 2.498898	63.21	Pk	32.8	-39.4	56.61	-	-	74	-17.39	140	370	V
3	* 2.4835	51.06	VA1T	32.7	-39.4	44.36	54	-9.64	-	-	140	370	V
4	2.509498	53.7	VA1T	32.8	-39.4	47.1	54	-6.9	-	-	140	370	V

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

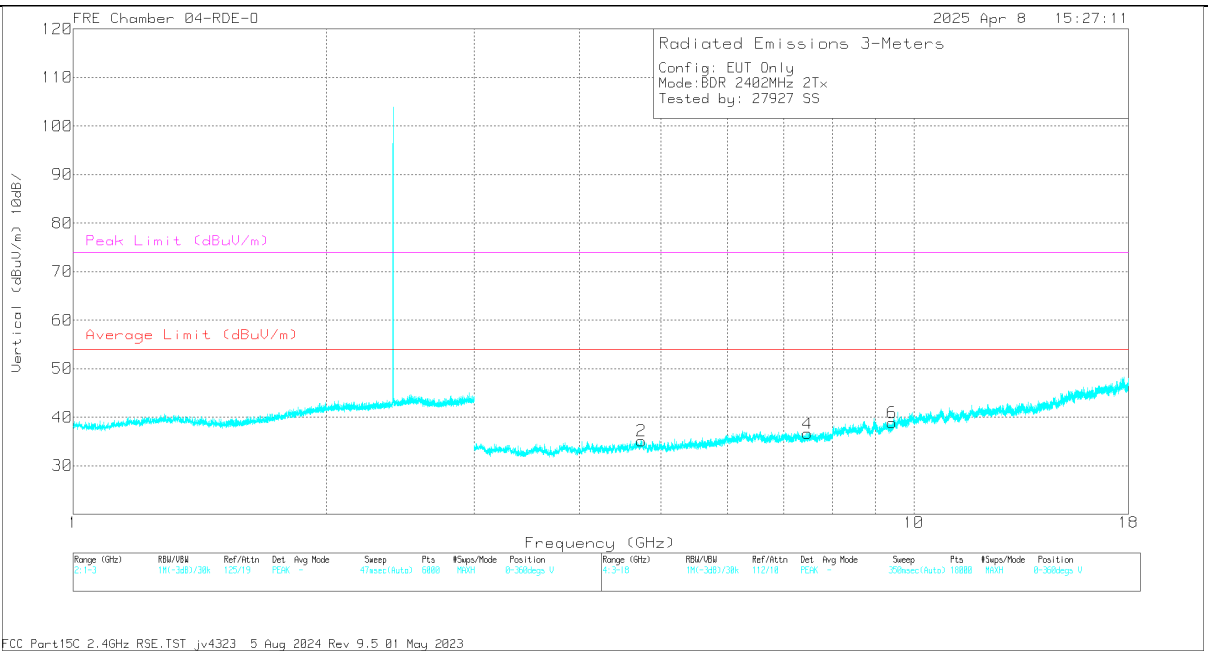
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

10.1.13. GFSK TXBF HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80402 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.749457	53.7	PKFH	34.3	-45.61	42.39	-	-	74	-31.61	235	238	H
	* 4.749608	41.07	VA1T	34.3	-45.62	29.75	54	-24.25	-	-	235	238	H
3	* 7.486075	50.18	PKFH	35.5	-41.79	43.89	-	-	74	-30.11	19	180	H
	* 7.486126	37.82	VA1T	35.5	-41.79	31.53	54	-22.47	-	-	19	180	H
5	* 9.403174	50.53	PKFH	36.3	-41.31	45.52	-	-	74	-28.48	222	216	H
	* 9.405684	37.64	VA1T	36.3	-41.41	32.53	54	-21.47	-	-	222	216	H
2	* 4.743871	53.95	PKFH	34.3	-45.68	42.57	-	-	74	-31.43	298	107	V
	* 4.744654	41.48	VA1T	34.3	-45.68	30.1	54	-23.9	-	-	298	107	V
4	* 7.476447	50.27	PKFH	35.6	-41.91	43.96	-	-	74	-30.04	123	240	V
	* 7.475393	37.8	VA1T	35.6	-41.91	31.49	54	-22.51	-	-	123	240	V
6	* 9.417681	51.75	PKFH	36.3	-41.32	46.73	-	-	74	-27.27	45	218	V
	* 9.418785	38.4	VA1T	36.3	-41.35	33.35	54	-20.65	-	-	45	218	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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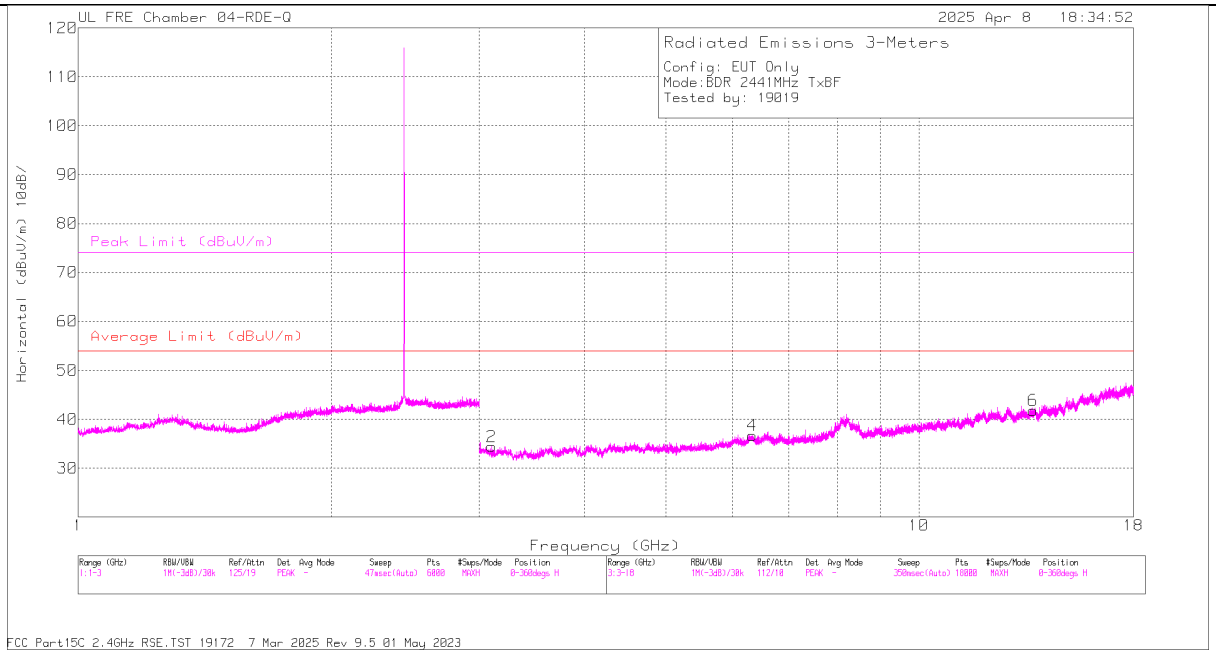
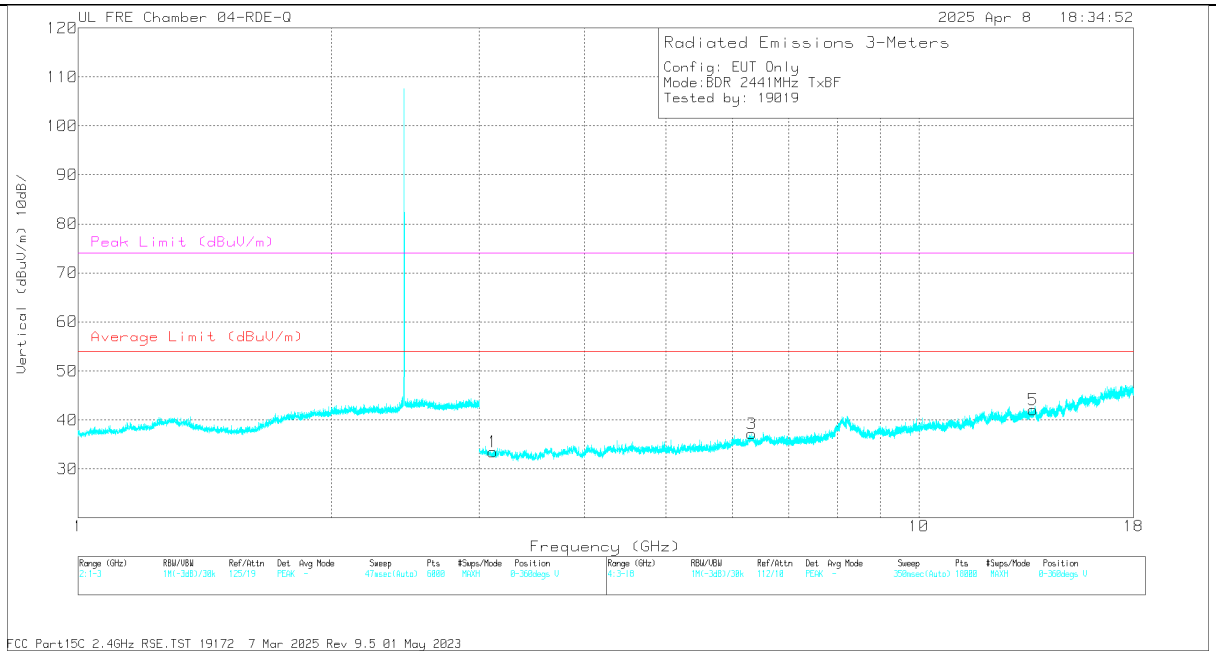
MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	3.104546	41.7	VA1T	33.1	-46.09	28.71	-	-	-	-	117	187	H
	3.106831	54.62	PKFH	33.1	-46	41.72	-	-	-	-	117	187	H
1	3.113687	54.92	PKFH	33.1	-45.99	42.03	-	-	-	-	352	237	V
	3.113795	41.68	VA1T	33.1	-45.99	28.79	-	-	-	-	352	237	V
3	6.33006	40.79	VA1T	35.6	-44.15	32.24	-	-	-	-	255	181	V
	6.330301	53.64	PKFH	35.6	-44.15	45.09	-	-	-	-	255	181	V
4	6.337721	40.66	VA1T	35.6	-44.23	32.03	-	-	-	-	92	169	H
	6.339543	52.96	PKFH	35.6	-44.24	44.32	-	-	-	-	92	169	H
6	13.667091	40.59	VA1T	39.2	-43.04	36.75	-	-	-	-	295	127	H
	13.667915	52.81	PKFH	39.2	-43.03	48.98	-	-	-	-	295	127	H
5	13.683295	53.17	PKFH	39.1	-43.02	49.25	-	-	-	-	204	160	V
	13.686619	40.49	VA1T	39.1	-43.03	36.56	-	-	-	-	204	160	V

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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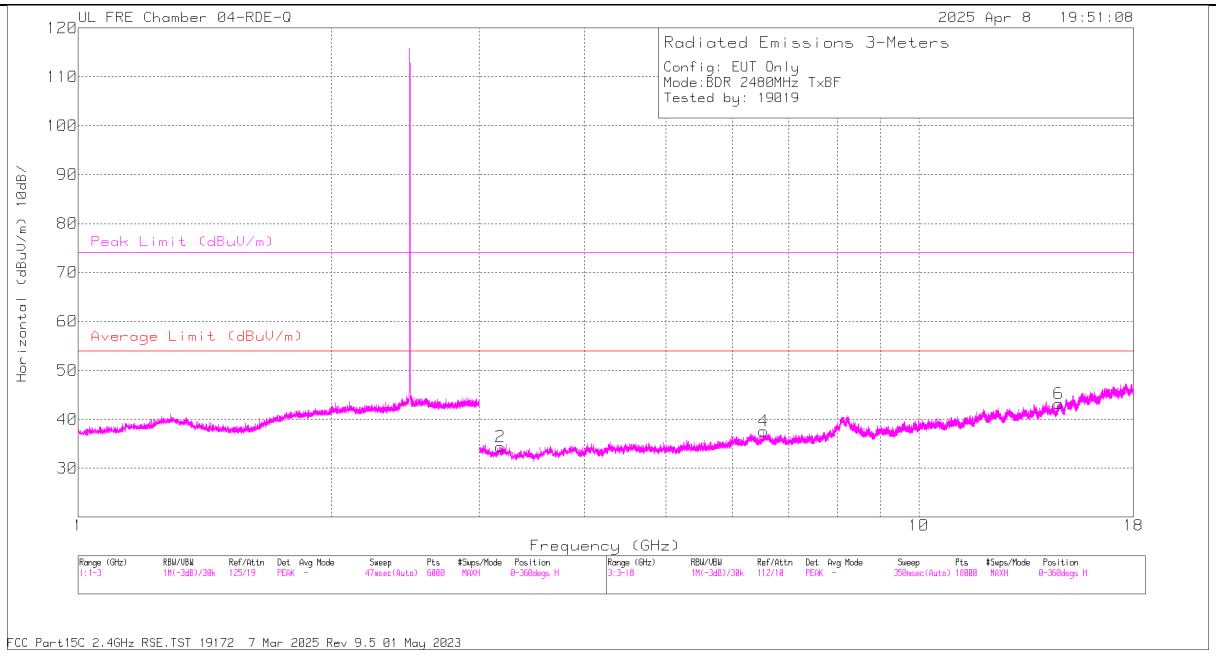
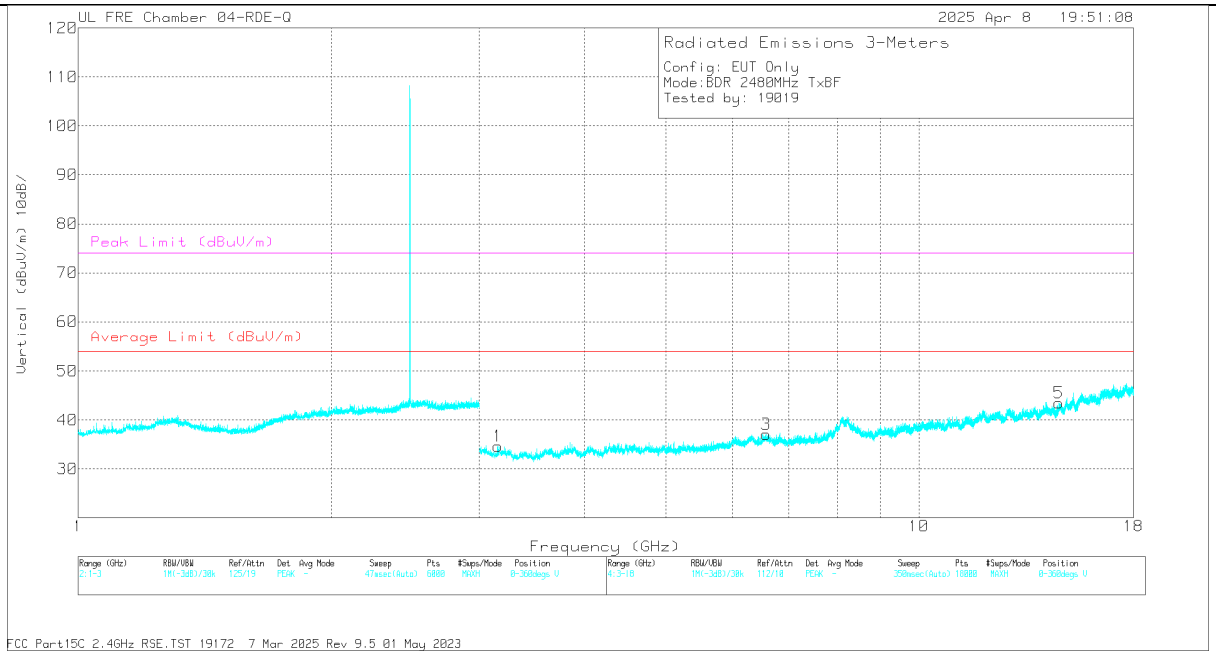
HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222741 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.153924	42.51	VA1T	33	-46.34	29.17	-	-	-	-	186	170	V
	3.155321	55.22	PKFH	33	-46.42	41.8	-	-	-	-	186	170	V
2	3.176414	55.78	PKFH	33	-46.46	42.32	-	-	-	-	133	133	H
	3.178102	42.69	VA1T	32.9	-46.52	29.07	-	-	-	-	133	133	H
4	6.536992	40.51	VA1T	35.7	-44.38	31.83	-	-	-	-	193	159	H
	6.537563	53.59	PKFH	35.7	-44.37	44.92	-	-	-	-	193	159	H
3	6.581824	40.2	VA1T	35.8	-44.05	31.95	-	-	-	-	150	151	V
	6.583783	52.9	PKFH	35.8	-44.09	44.61	-	-	-	-	150	151	V
5	14.660049	54.15	PKFH	39.2	-42.88	50.47	-	-	-	-	119	288	V
	14.661829	41.55	VA1T	39.2	-42.83	37.92	-	-	-	-	119	288	V
6	14.676487	54.75	PKFH	39.2	-42.41	51.54	-	-	-	-	235	223	H
	14.677999	41.5	VA1T	39.2	-42.4	38.3	-	-	-	-	235	223	H

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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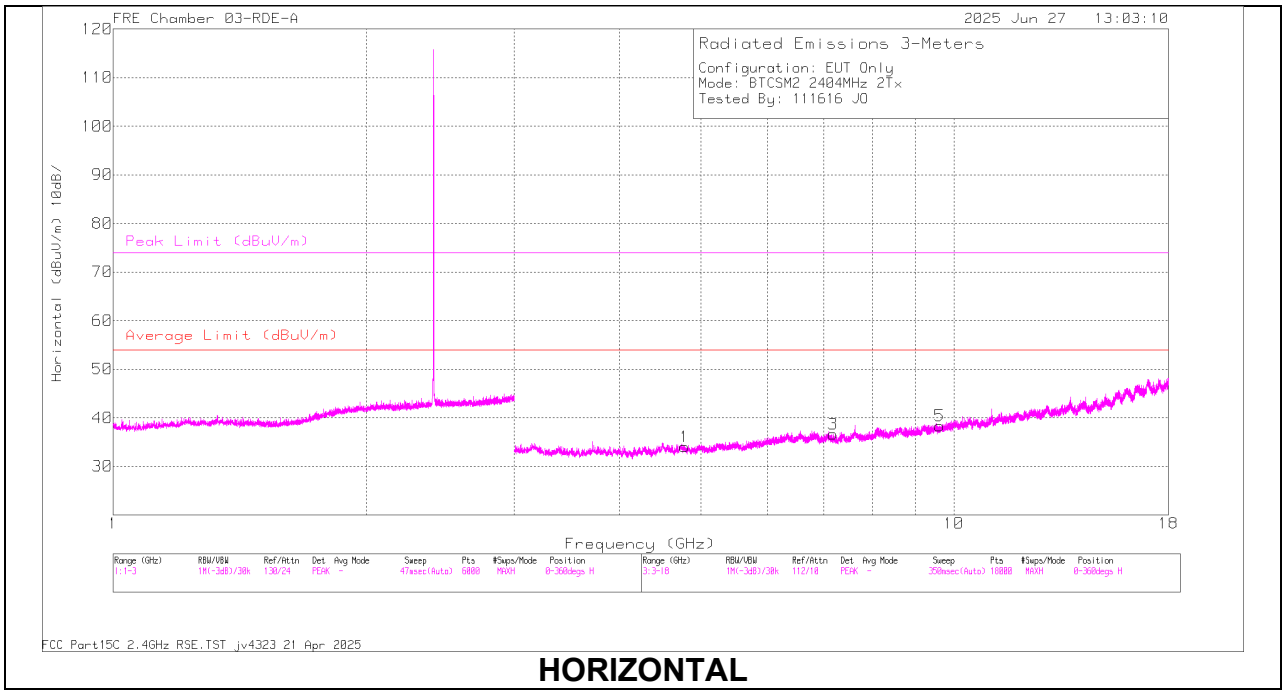
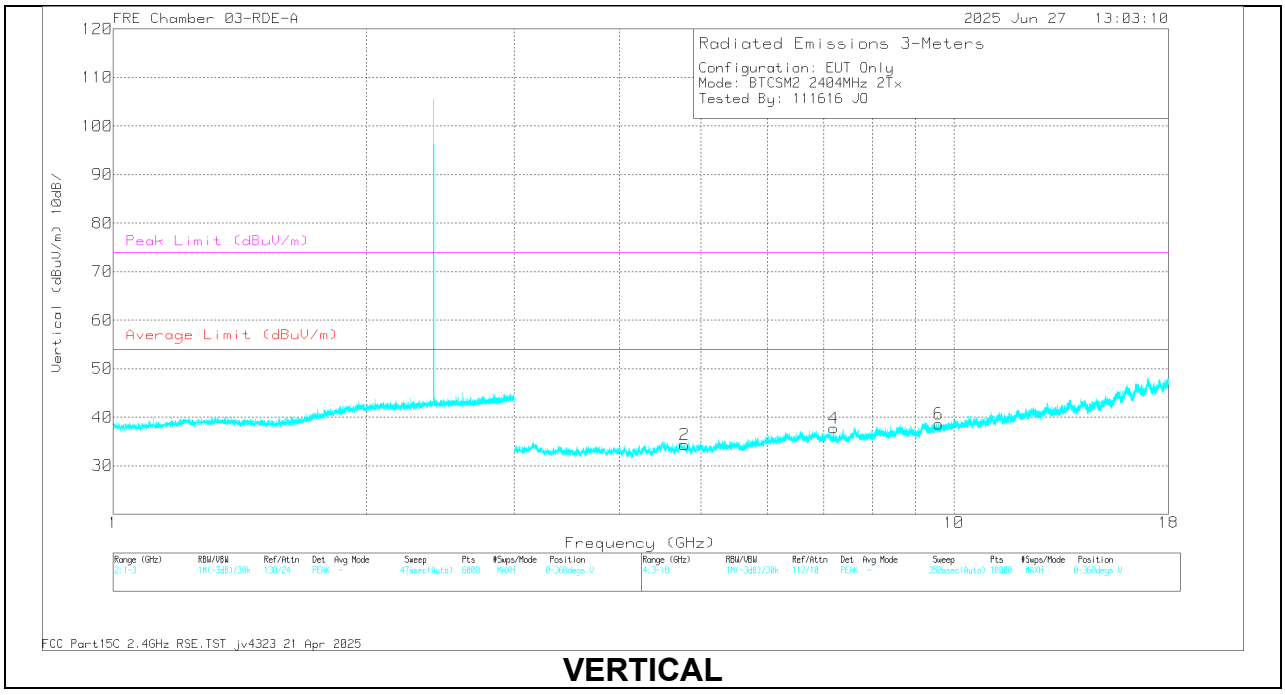
10.1.14 BTCSM2 TXBF HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.785616	56.61	PKFH	34	-48.1	42.51	-	-	74	-31.49	181	110	H
	* 4.784532	43.05	VA1T	34.1	-48.05	29.1	54	-24.9	-	-	181	110	H
2	* 4.783988	56.49	PKFH	34.1	-48	42.59	-	-	74	-31.41	17	102	V
	* 4.78355	43.1	VA1T	34.1	-48	29.2	54	-24.8	-	-	17	102	V
3	7.190218	41.21	VA1T	35.8	-46	31.01	-	-	-	-	155	242	H
	7.192256	54.39	PKFH	35.8	-46	44.19	-	-	-	-	155	242	H
4	7.193172	54.49	PKFH	35.8	-45.98	44.31	-	-	-	-	56	394	V
	7.195948	41.15	VA1T	35.8	-45.9	31.05	-	-	-	-	56	394	V
6	9.592777	54.82	PKFH	36.6	-45.2	46.22	-	-	-	-	213	287	V
	9.595551	41.33	VA1T	36.6	-45.36	32.57	-	-	-	-	213	287	V
5	9.624967	54.67	PKFH	36.7	-45.3	46.07	-	-	-	-	35	225	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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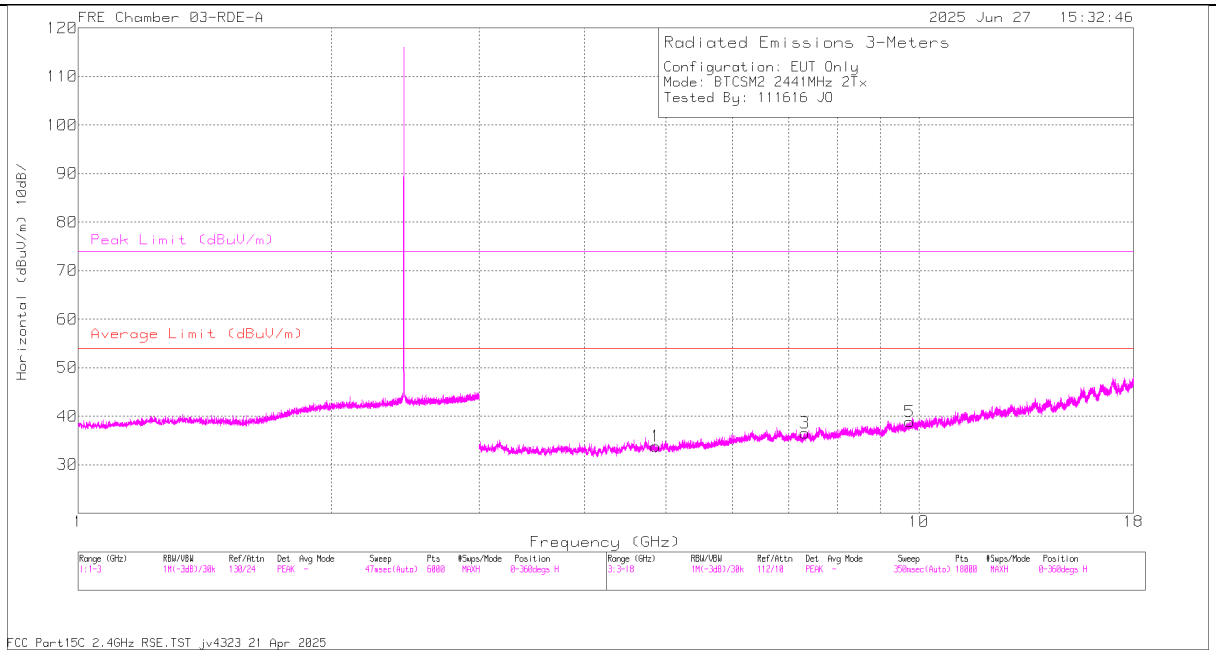
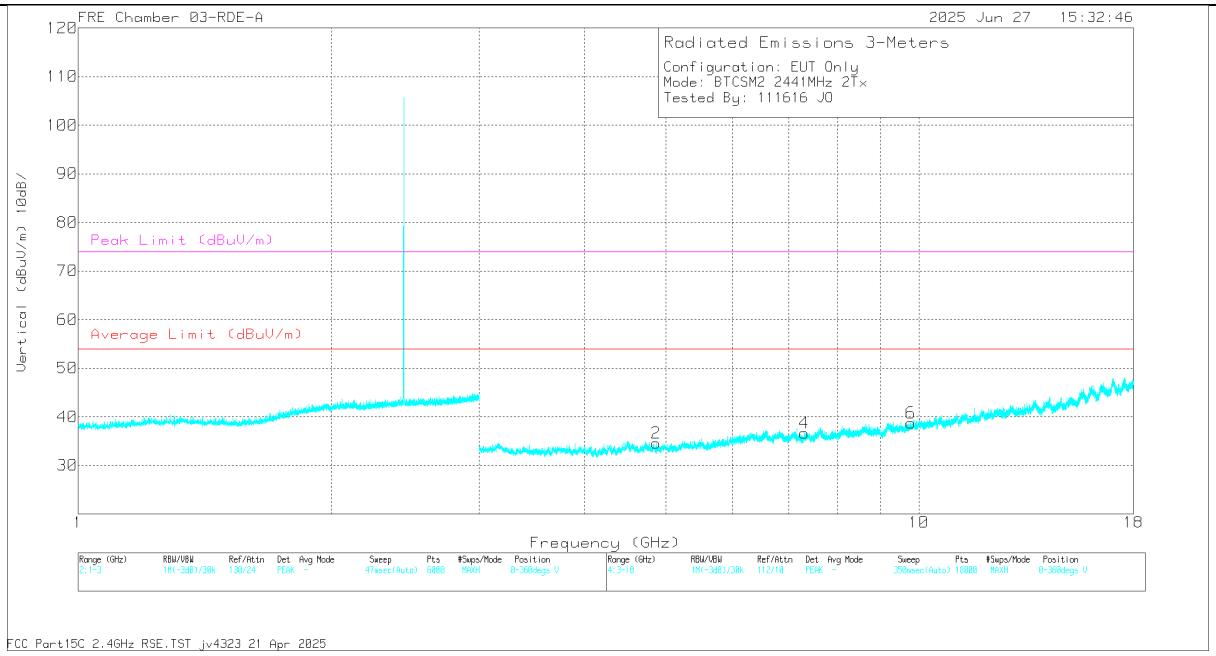
MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.8665	56.67	PKFH	34	-47.95	42.72	-	-	74	-31.28	205	255	H
	* 4.866604	42.54	VA1T	34	-47.94	28.6	54	-25.4	-	-	205	255	H
3	* 7.319545	54.52	PKFH	35.8	-45.8	44.52	-	-	74	-29.48	283	231	H
	* 7.320174	41.11	VA1T	35.8	-45.8	31.11	54	-22.89	-	-	283	231	H
2	* 4.874328	56	PKFH	34	-48	42	-	-	74	-32	17	209	V
	* 4.872594	42.49	VA1T	34	-48.06	28.43	54	-25.57	-	-	17	209	V
4	* 7.312997	54.08	PKFH	35.8	-45.7	44.18	-	-	74	-29.82	31	231	V
	* 7.310505	41.03	VA1T	35.8	-45.75	31.08	54	-22.92	-	-	31	231	V
5	9.754887	55.04	PKFH	36.8	-45.1	46.74	-	-	-	-	313	277	H
	9.755342	41.63	VA1T	36.8	-45.13	33.3	-	-	-	-	313	277	H
6	9.781303	55.07	PKFH	36.9	-45.1	46.87	-	-	-	-	130	329	V
	9.784714	41.56	VA1T	36.9	-45.2	33.26	-	-	-	-	130	329	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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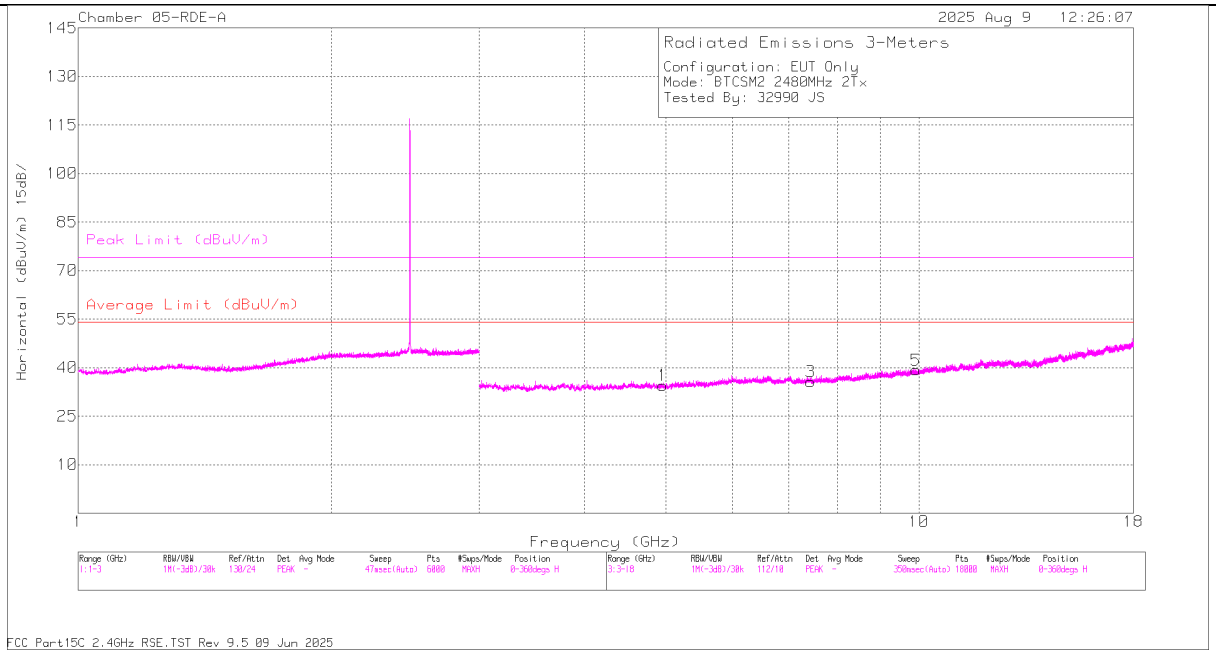
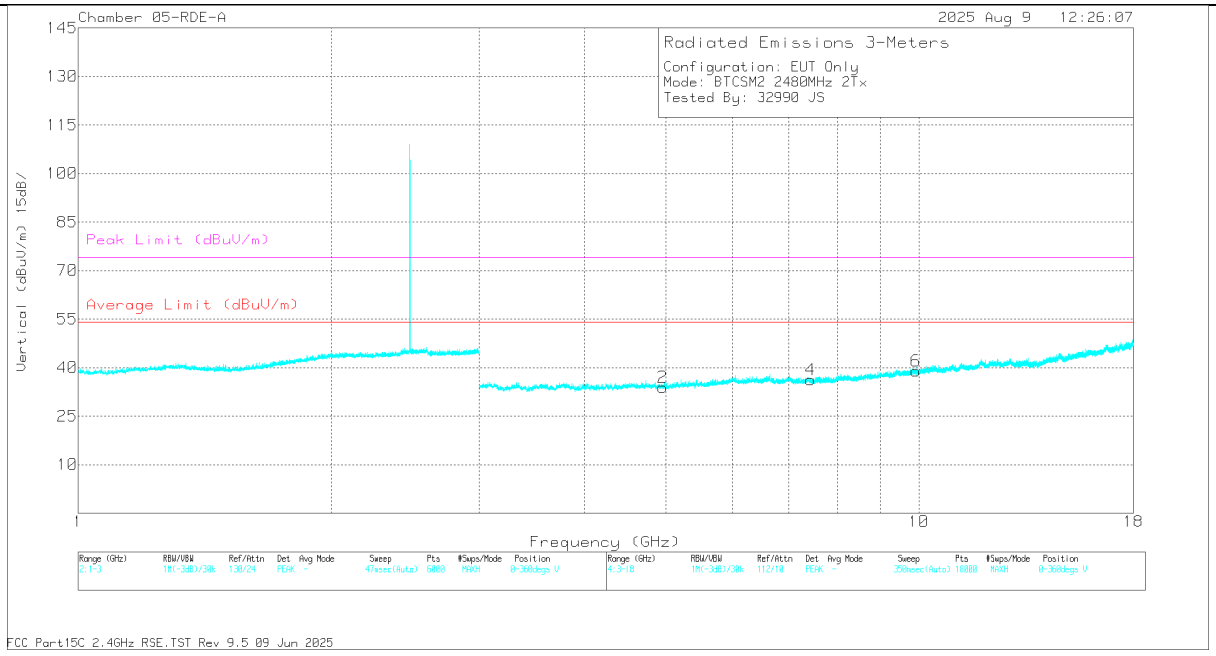
HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.972801	56.28	PKFH	34.4	-47.32	43.36	-	-	74	-30.64	191	274	H
	* 4.946965	46.71	VA1T	34.4	-47.3	33.81	54	-20.19	-	-	191	274	H
3	* 7.445451	53.18	PKFH	35.8	-45.25	43.73	-	-	74	-30.27	153	309	H
	* 7.433633	45.17	VA1T	35.8	-45.1	35.87	54	-18.13	-	-	153	309	H
2	* 4.944965	56.68	PKFH	34.4	-47.3	43.78	-	-	74	-30.22	151	225	V
	* 4.968854	47.84	VA1T	34.4	-47.39	34.85	54	-19.15	-	-	151	225	V
4	* 7.42386	53.62	PKFH	35.8	-44.7	44.72	-	-	74	-29.28	342	195	V
	* 7.439513	44.79	VA1T	35.8	-45.2	35.39	54	-18.61	-	-	342	195	V
6	9.906368	54.36	PKFH	37.6	-44.26	47.7	-	-	74	-26.3	265	286	H
	9.908354	53.71	PKFH	37.6	-44.16	47.15	-	-	74	-26.85	244	314	V
5	9.938772	45.37	VA1T	37.7	-44.5	38.57	-	-	-	-	244	314	V
	9.939052	44.98	VA1T	37.7	-44.51	38.17	-	-	-	-	265	286	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

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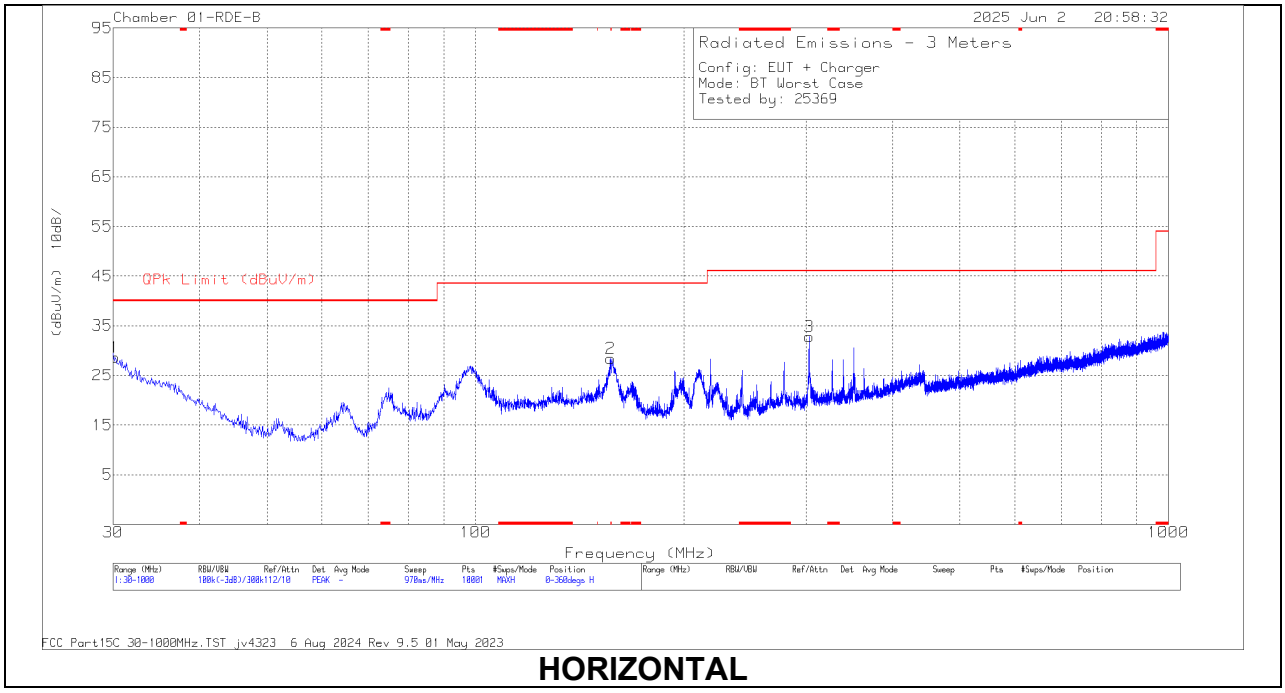
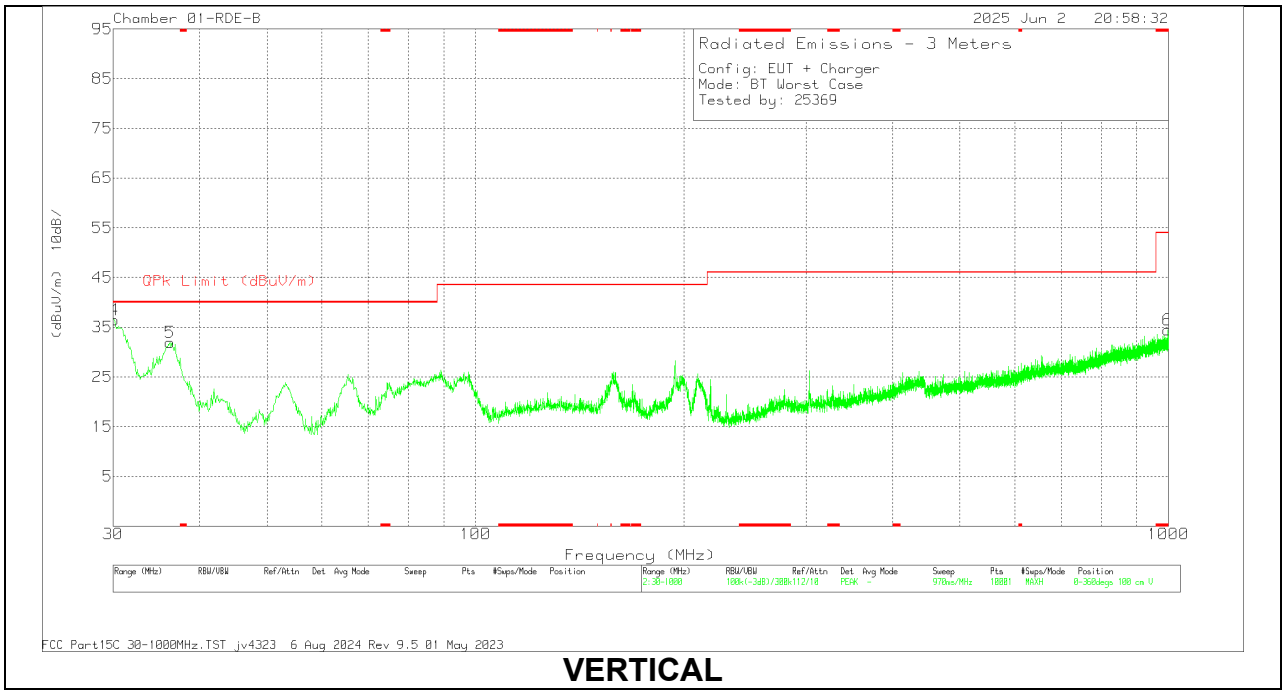
10.2. WORST CASE BELOW 1 GHz

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



HORIZONTAL



VERTICAL

Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	85150 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 998.157	31.24	Pk	29.1	-25.9	34.44	53.97	-19.53	0-360	199	V
4	30.097	40.76	Pk	27.2	-31.5	36.46	40	-3.54	0-360	100	V
1	30.194	33	Pk	27.1	-31.5	28.6	40	-11.4	0-360	199	H
5	36.208	40.04	Pk	23.3	-31.4	31.94	40	-8.06	0-360	100	V
2	156.585	40.81	Pk	18	-30.4	28.41	43.52	-15.11	0-360	99	H
3	303.152	43.07	Pk	19.4	-29.7	32.77	46.02	-13.25	0-360	99	H
7	30.0884	37.33	Qp	27.2	-31.5	33.03	40	-6.97	230	100	V

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

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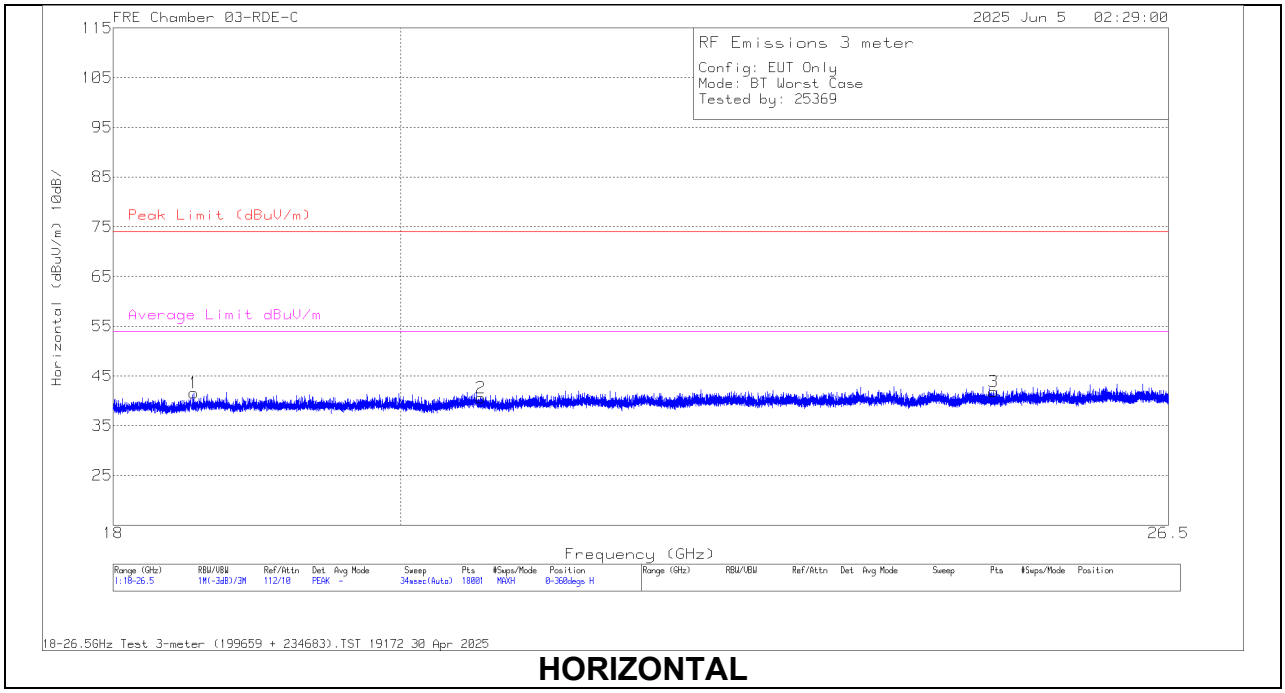
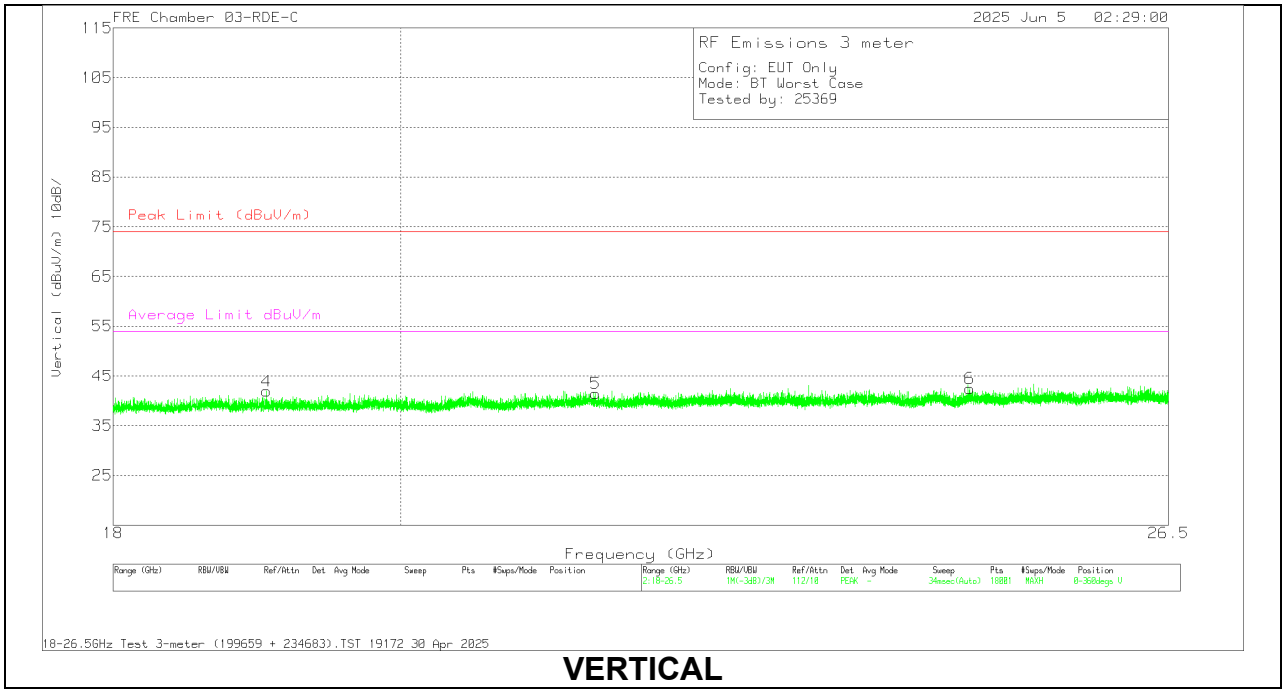
10.3. WORST CASE 18-26 GHz

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



HORIZONTAL



VERTICAL

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18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	199658 ACF (dB/m)	234683 18-26.5GHz_Amp Assembly	Cable (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 18.540694	58.04	Pk	32.3	-62.6	13.9	41.64	-	-	54	-12.36	0-360	199	H
2	* 20.595804	54.05	Pk	32.6	-60.7	14.6	40.55	-	-	54	-13.45	0-360	101	H
4	* 19.04125	57.71	Pk	32.4	-62.3	14.1	41.91	-	-	54	-12.09	0-360	200	V
5	21.480748	55.41	Pk	33	-61.9	15	41.51	-	-	54	-12.49	0-360	200	V
6	24.639441	54.69	Pk	33.8	-62.2	16.2	42.49	-	-	54	-11.51	0-360	200	V
3	24.857136	53.91	Pk	33.7	-62	16.2	41.81	-	-	54	-12.19	0-360	101	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Note: Peak readings were compared to average limit therefore satisfying both peak and average limit

UL VERIFICATION SERVICES INC.
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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.

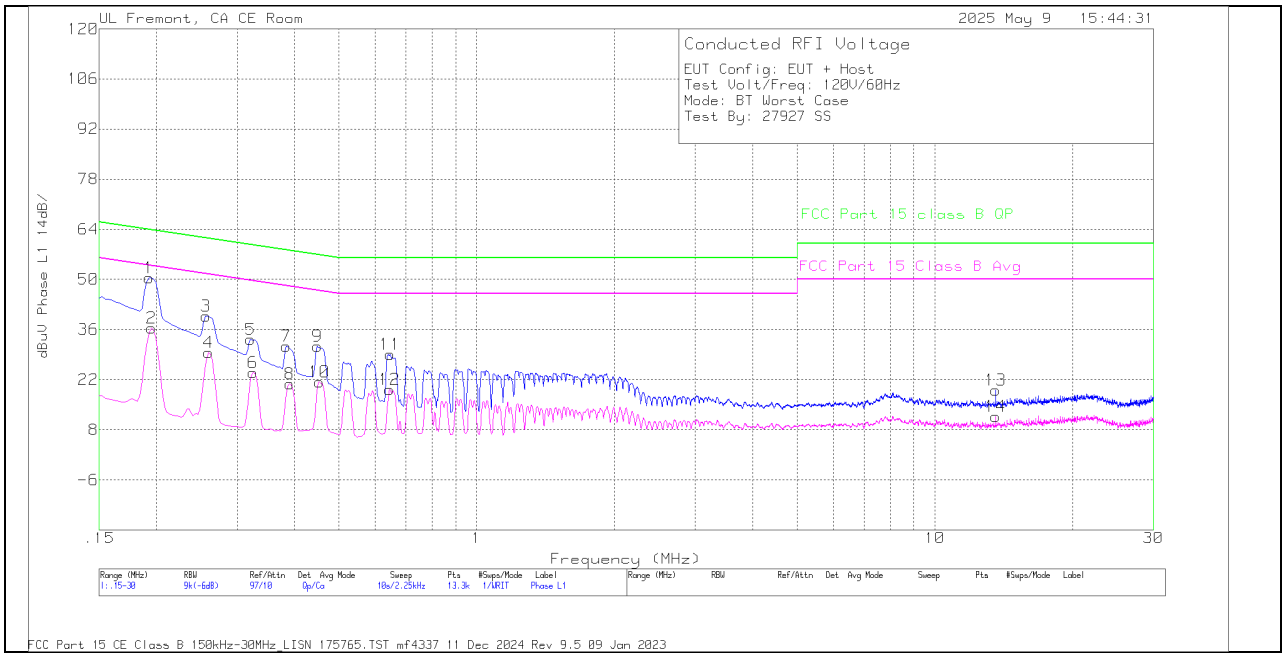
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

UL VERIFICATION SERVICES INC.
47173 Benicia Street, Fremont, CA 94538, USA TEL:(510) 319-4000 FAX:(510) 661-0888

11.1.1. AC POWER LINE WITH LAPTOP

LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg	Margin (dB)	FCC Part 15 class B QP	Margin (dB)
2	.195	17.76	Ca	.1	.1	8.4	10	36.36	53.82	-17.46	-	-
4	.2603	11.43	Ca	-.1	0	8.2	10	29.53	51.42	-21.89	-	-
6	.3255	5.96	Ca	-.2	0	8.2	10	23.96	49.57	-25.61	-	-
8	.3908	3.02	Ca	-.5	0	8.3	10	20.82	48.05	-27.23	-	-
10	.4538	2.28	Ca	.2	0	8.8	10	21.28	46.81	-25.53	-	-
12	.645	.78	Ca	.1	0	8.4	10	19.28	46	-26.72	-	-
14	13.56	-6.78	Ca	.2	.1	8.2	10	11.72	50	-38.28	-	-
1	.1928	31.77	Qp	.2	.1	8.4	10	50.47	-	-	63.92	-13.45
3	.2569	21.67	Qp	-.1	0	8.2	10	39.77	-	-	61.53	-21.76
5	.321	15.19	Qp	-.2	0	8.2	10	33.19	-	-	59.68	-26.49
7	.384	13.48	Qp	-.5	0	8.3	10	31.28	-	-	58.19	-26.91
9	.4493	12.18	Qp	.2	0	8.9	10	31.28	-	-	56.89	-25.61
11	.6473	10.54	Qp	.1	0	8.4	10	29.04	-	-	56	-26.96
13	13.56	.62	Qp	.2	.1	8.2	10	19.12	-	-	60	-40.88

Qp - Quasi-Peak detector
Ca - CISPR average detection

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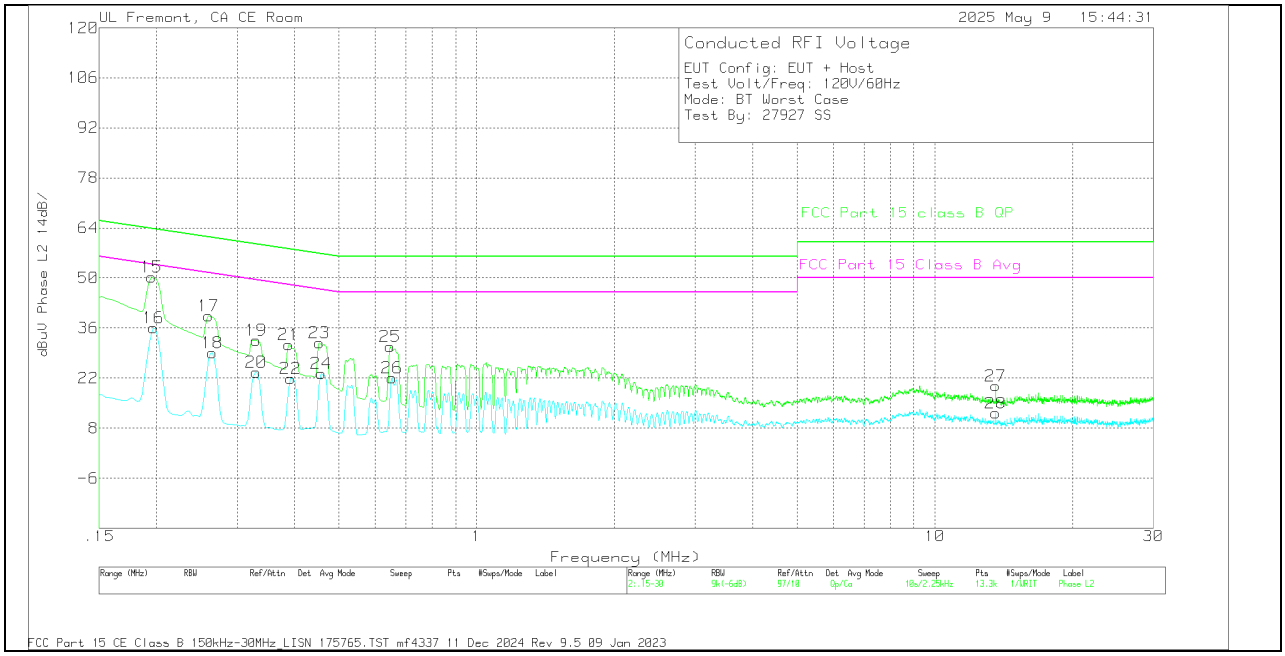
LINE 2 RESULTS

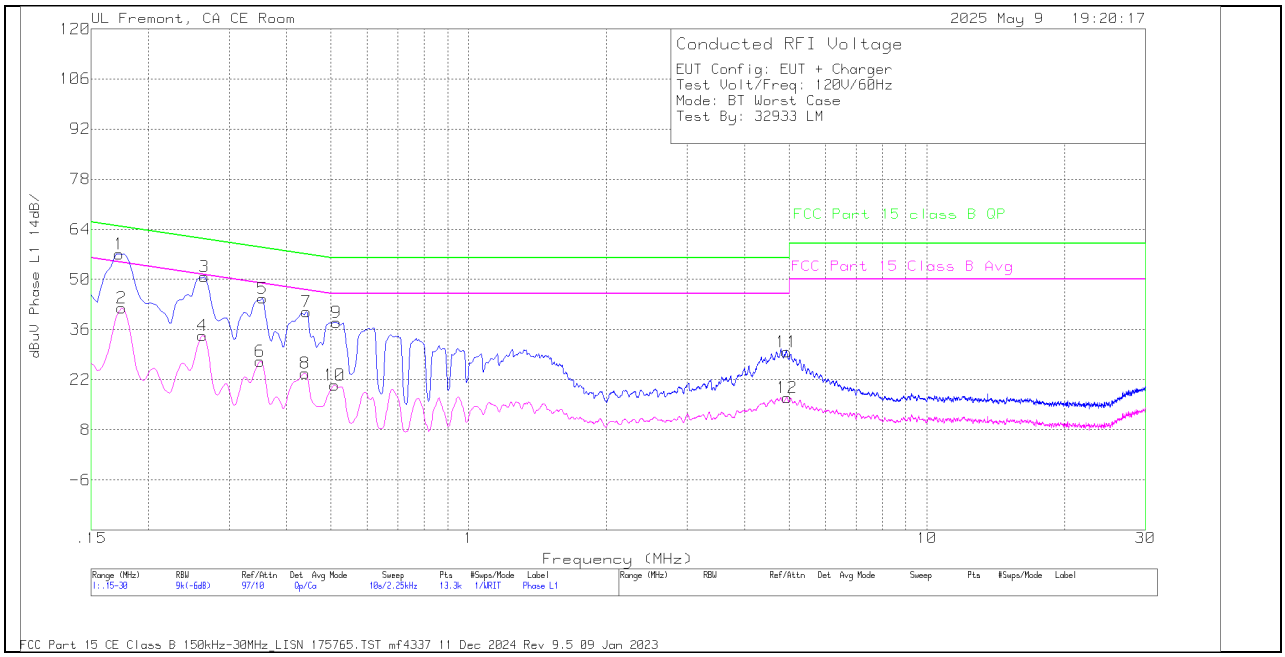


Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg	Margin (dB)	FCC Part 15 class B QP	Margin (dB)
16	.1973	17.54	Ca	.1	0	8.4	10	36.04	53.73	-17.69	-	-
18	.2648	11.11	Ca	-.1	0	8.1	10	29.11	51.28	-22.17	-	-
20	.33	5.59	Ca	-.2	0	8.2	10	23.59	49.45	-25.86	-	-
22	.393	4.13	Ca	-.5	0	8.3	10	21.93	48	-26.07	-	-
24	.4583	4.36	Ca	.2	0	8.7	10	23.26	46.72	-23.46	-	-
26	.654	3.52	Ca	.1	0	8.4	10	22.02	46	-23.98	-	-
28	13.56	-6.35	Ca	.2	.1	8.2	10	12.15	50	-37.85	-	-
15	.195	31.7	Qp	.1	0	8.4	10	50.2	-	-	63.82	-13.62
17	.2603	21.28	Qp	-.1	0	8.2	10	39.38	-	-	61.42	-22.04
19	.33	14.63	Qp	-.2	0	8.2	10	32.63	-	-	59.45	-26.82
21	.3885	13.56	Qp	-.5	0	8.3	10	31.36	-	-	58.1	-26.74
23	.4538	12.9	Qp	.2	0	8.8	10	31.9	-	-	56.81	-24.91
25	.6473	12.3	Qp	.1	0	8.4	10	30.8	-	-	56	-25.2
27	13.56	1.35	Qp	.2	.1	8.2	10	19.85	-	-	60	-40.15

Qp - Quasi-Peak detector
Ca - CISPR average detection

11.1.2. AC POWER LINE WITH AC/DC ADAPTER

LINE 1 RESULTS



Range 1: Phase L1 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg	Margin (dB)	FCC Part 15 class B QP	Margin (dB)
2	.1748	23.09	Ca	.3	.1	8.5	10	41.99	54.73	-12.74	-	-
4	.2625	16.15	Ca	-.1	0	8.2	10	34.25	51.35	-17.1	-	-
6	.3503	9.1	Ca	-.4	0	8.4	10	27.1	48.96	-21.86	-	-
8	.4403	4.9	Ca	.1	0	8.8	10	23.8	47.06	-23.26	-	-
10	.51	2.71	Ca	-.2	0	7.9	10	20.41	46	-25.59	-	-
12	4.9515	-1.57	Ca	.2	0	8.3	10	16.93	46	-29.07	-	-
1	.1725	38.21	Qp	.3	.1	8.5	10	57.11	-	-	64.84	-7.73
3	.2648	32.73	Qp	-.1	0	8.1	10	50.73	-	-	61.28	-10.55
5	.3548	26.73	Qp	-.4	0	8.4	10	44.73	-	-	58.85	-14.12
7	.4425	22.07	Qp	.1	0	8.8	10	40.97	-	-	57.01	-16.04
9	.5145	20.4	Qp	-.2	0	7.8	10	38	-	-	56	-18
11	4.9448	11.25	Qp	.2	0	8.3	10	29.75	-	-	56	-26.25

Qp - Quasi-Peak detector
Ca - CISPR average detection

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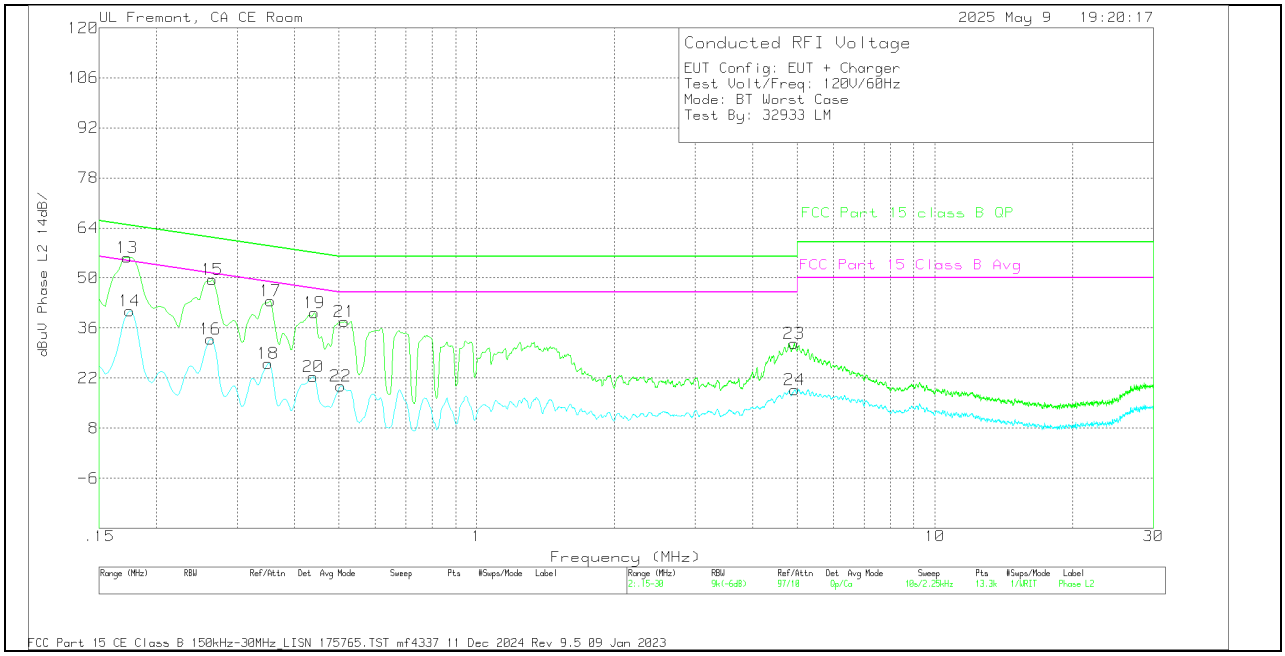
LINE 2 RESULTS



Range 2: Phase L2 .15 - 30MHz												
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	CBL(dB)	LISN (dB)	CBL(dB)	10dB Atten (dB)	Corrected Reading dBuV	FCC Part 15 Class B Avg	Margin (dB)	FCC Part 15 class B QP	Margin (dB)
14	.1748	22.01	Ca	.3	0	8.5	10	40.81	54.73	-13.92	-	-
16	.2625	14.76	Ca	-.1	0	8.2	10	32.86	51.35	-18.49	-	-
18	.3503	8.02	Ca	-.4	0	8.4	10	26.02	48.96	-22.94	-	-
20	.4403	3.46	Ca	.1	0	8.8	10	22.36	47.06	-24.7	-	-
22	.5055	2.04	Ca	-.1	0	7.9	10	19.84	46	-26.16	-	-
24	4.9493	.26	Ca	.2	0	8.3	10	18.76	46	-27.24	-	-
13	.1725	36.97	Qp	.3	0	8.5	10	55.77	-	-	64.84	-9.07
15	.2648	31.5	Qp	-.1	0	8.1	10	49.5	-	-	61.28	-11.78
17	.3548	25.62	Qp	-.4	0	8.4	10	43.62	-	-	58.85	-15.23
19	.4425	21.38	Qp	.1	0	8.8	10	40.28	-	-	57.01	-16.73
21	.5145	20.23	Qp	-.2	0	7.8	10	37.83	-	-	56	-18.17
23	4.929	13.44	Qp	.2	0	8.1	10	31.74	-	-	56	-24.26

Qp - Quasi-Peak detector
Ca - CISPR average detection

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12. SETUP PHOTOS

Please refer to 15496249-EP1 for setup photos

13. APPENDIX A - SPOT CHECK EVALUATION

13.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3257, A3525, A3526 and A3527.

These models have the same PCB layout, design, common components, antennas, antenna locations and housing cases, except for FR2 is removed from variants and disabled/enabled cellular bands via software as shown below.

Model	FCC ID	IC ID	Feature Difference	Sim Support	Reference Model
A3257	BCG-E8950A	579C-E8950A	-With FR2/LTE/5GNR B14/29/71 -No B11/21 -With UL MIMO (n41/48/77)	eSIM	-
A3525	BCG-E8960A	579C-E8960A	-Without FR2 -Added B11/21 -No UL MIMO	eSIM	A3257
A3526	BCG-E8961A	579C-E8961A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -No UL MIMO	eSIM+pSIM	
A3527	BCG-E8962A	579C-E8962A	-Without FR2 -No LTE/5GNR B14/29/71 -No LTE B11/21 -With UL MIMO (n41/78/79) -No MSS / 5GNR B53	pSIM+pSIM	

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).

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

Where d_{dB} is deviation between the variant and the reference model, V_{dB} is variant spot check level, R_{db} is the corresponding reference measurement level, d_{dBmax} is the maximum deviation d_{dB} allowed, and M_{dB} is the margin in dB.

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13.1. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3525

A3525 SPOT CHECK RESULTS										
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3525	Delta (dB)	Margin
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID: BCG-E8960A IC : 579C-E8960A		
DSS / BT	2.4	GFSK, TxBF	1 Mbps	Avg Power (dBm)	Mid	Fundamental	19.93	19.92	-0.01	-1.07
		8PSK ANT 2 AVG, Vert.	3 Mbps	Radiated Bandedge (dBuV/m)	High	2.4835	48.50	46.48	-2.02	-25.50
		GFSK, TxBF, PK, Vert.	1 Mbps	RSE (dBuV/m)	Mid	30.097 MHz	36.46	38.41	1.95	-3.54

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.

13.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3526

A3526 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3526	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID: BCG-E8961A IC : 579C-E8961A			
DSS / BT	2.4	GFSK, TxBF	1 Mbps	Avg Power (dBm)	Mid	Fundamental	19.93	19.93	0.00	-1.07	Note 1
		8PSK ANT 2 AVG, Vert.	3 Mbps	Radiated Bandedge (dBuV/m)	High	2.4835	48.50	47.51	-0.99	-25.50	Note 1
		GFSK, TxBF, PK, Vert.	1 Mbps	RSE (dBuV/m)	Mid	30.097 MHz	36.46	33.91	-2.55	-3.54	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 A3527

A3527 SPOT CHECK RESULTS											
Equipment Class / Technology	Frequency (GHz)	Mode	Data Rate	Test Item	Channel	Measured Frequency (GHz)	Original Model: A3257	Sub Model: A3527	Delta (dB)	Margin	Remarks
							FCC ID : BCG-E8950A IC : 579C-E8950A	FCC ID: BCG-E8962A IC : 579C-E8962A			
DSS / BT	2.4	GFSK, TxBF	1 Mbps	Avg Power (dBm)	Mid	Fundamental	19.93	19.92	-0.01	-1.07	Note 1
		8PSK ANT 2 AVG, Vert.	3 Mbps	Radiated Bandedge (dBuV/m)	High	2.4835	48.50	47.08	-1.42	-25.50	Note 1
		GFSK, TxBF, PK, Vert.	1 Mbps	RSE (dBuV/m)	Mid	30.097 MHz	36.46	33.68	-2.78	-3.54	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.

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END OF TEST REPORT

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