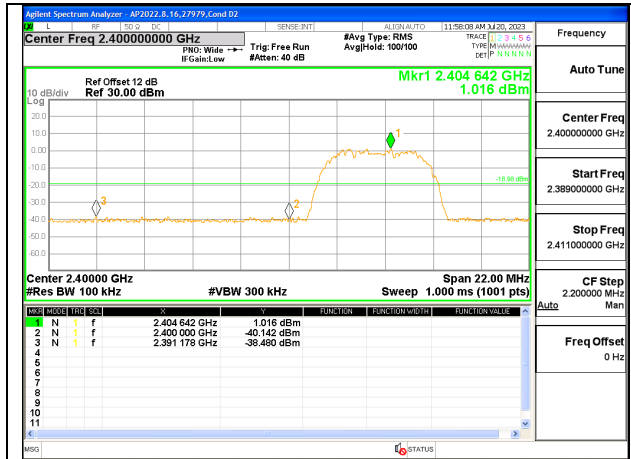
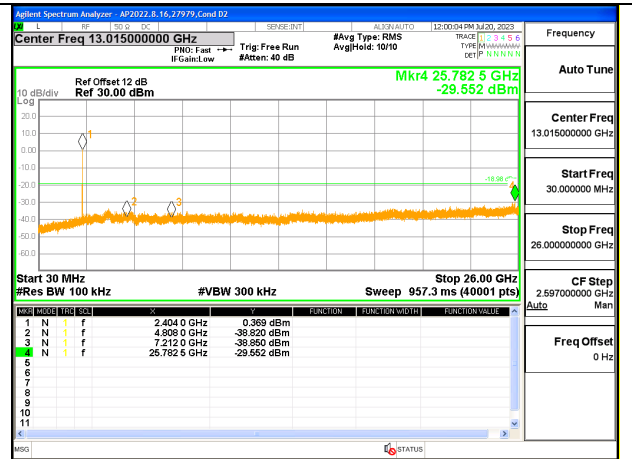


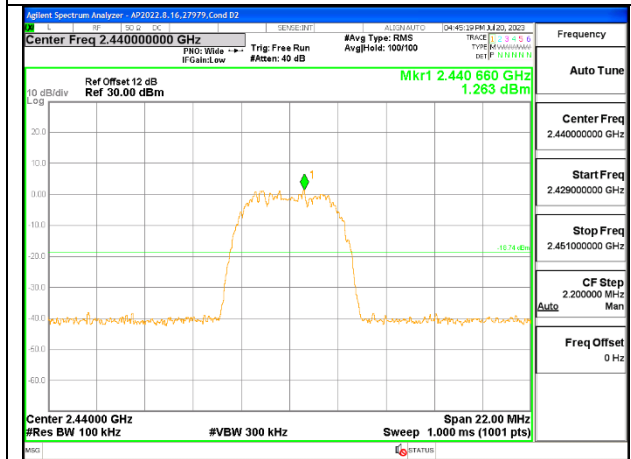
ANT 3



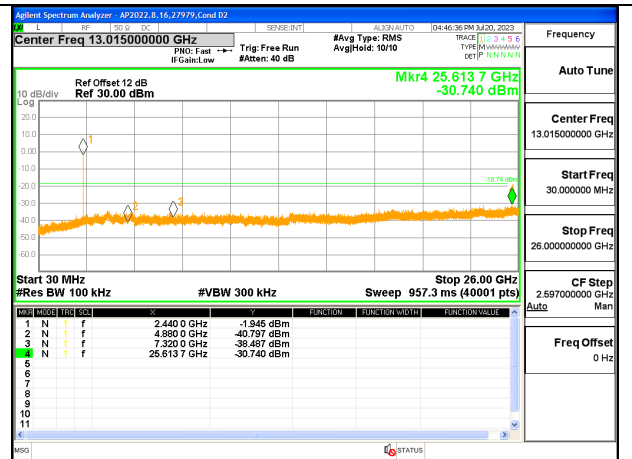
LOW CHANNEL BANDEDGE



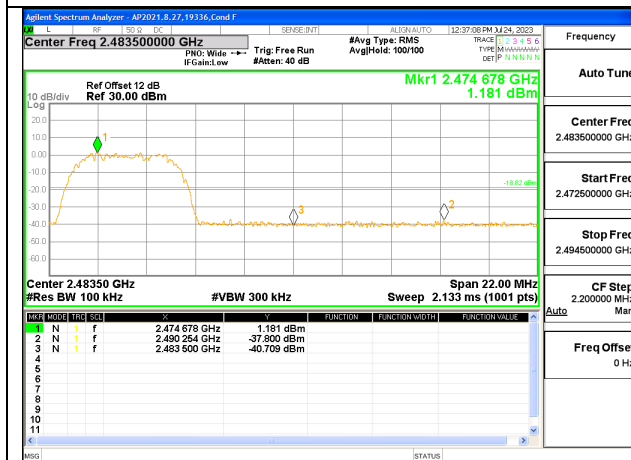
OUT-OF-BAND LOW CHANNEL



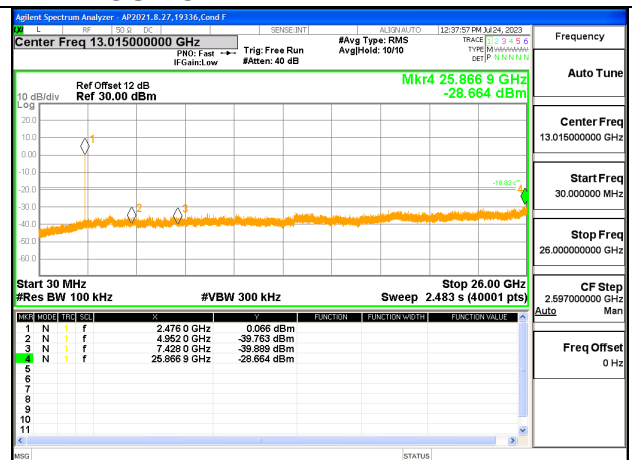
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



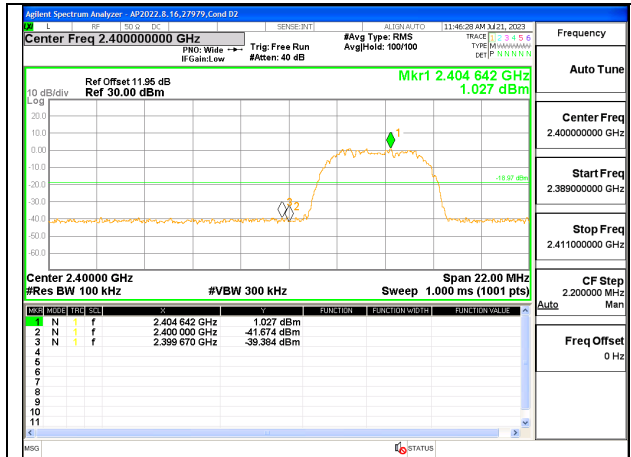
HIGH CHANNEL BANDEDGE



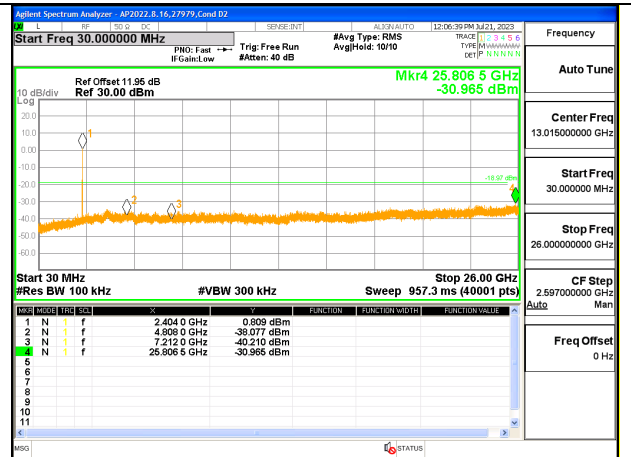
OUT-OF-BAND HIGH CHANNEL

### 9.7.8. LOW POWER HDR TXBF (HDR8)

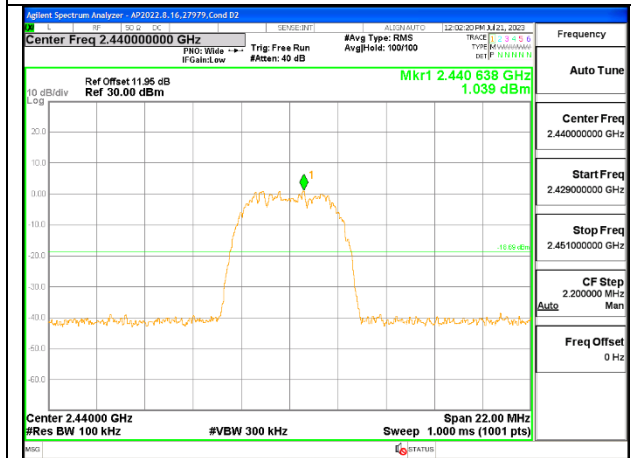
#### ANT 4



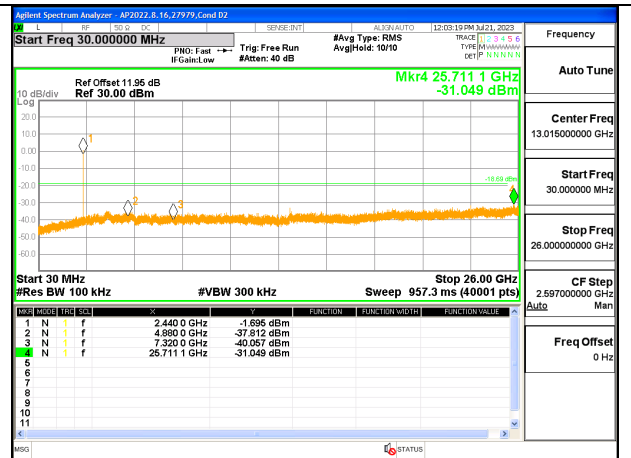
**LOW CHANNEL BANDEDGE ANT 4**



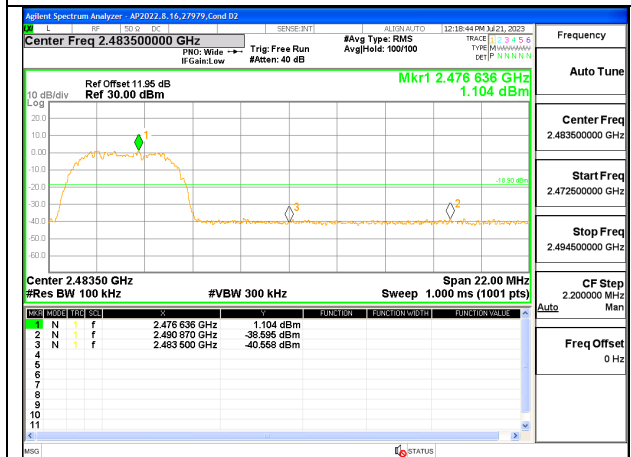
**OUT-OF-BAND LOW CHANNEL ANT 4**



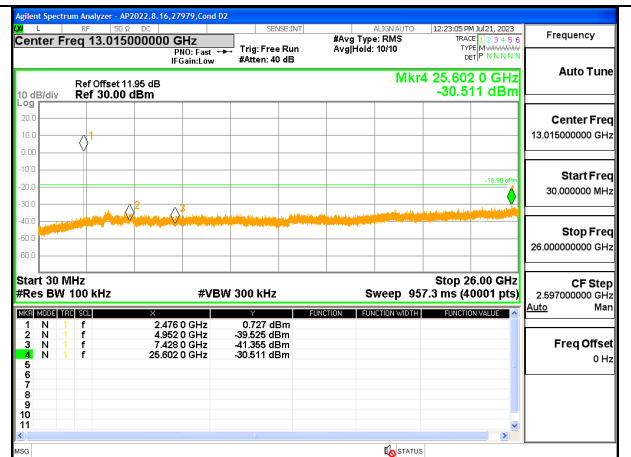
**IN-BAND REFERENCE LEVEL ANT 4**



**OUT-OF-BAND MID CHANNEL ANT 4**

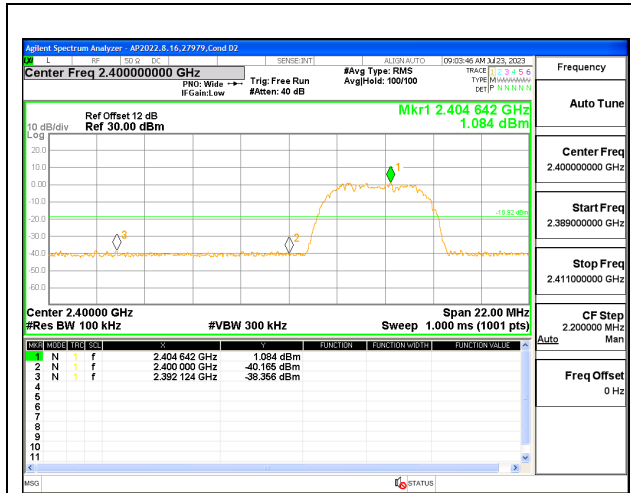


**HIGH CHANNEL BANDEDGE ANT 4**

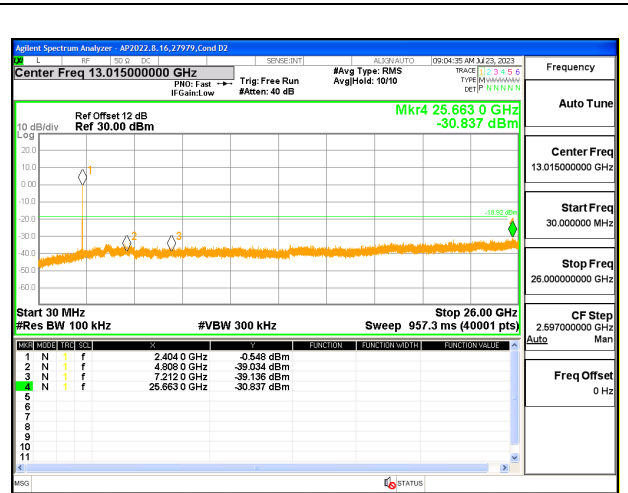


**OUT-OF-BAND HIGH CHANNEL ANT 4**

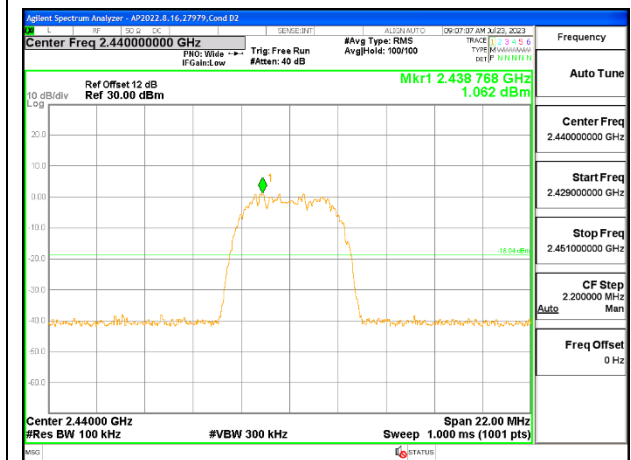
ANT 3



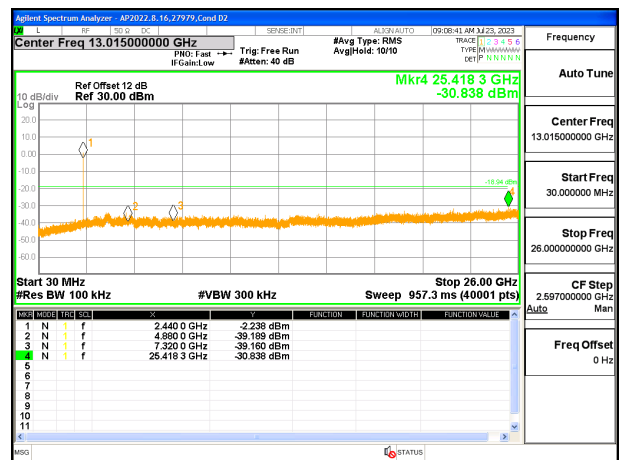
LOW CHANNEL BANDEDGE ANT 3



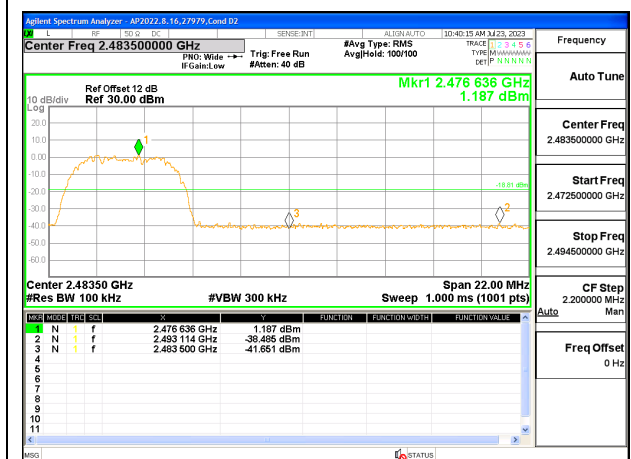
OUT-OF-BAND LOW CHANNEL ANT 3



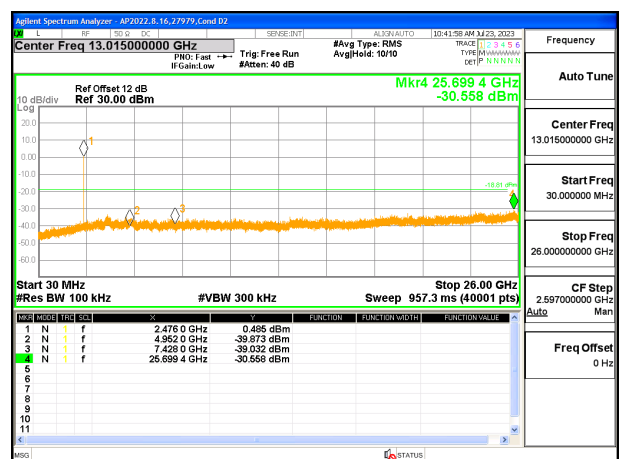
IN-BAND REFERENCE LEVEL ANT 3



OUT-OF-BAND MID CHANNEL ANT 3



HIGH CHANNEL BANDEDGE ANT 3



OUT-OF-BAND HIGH CHANNEL ANT 3

## 10. RADIATED TEST RESULTS

### 10.1. LIMITS AND PROCEDURE

#### LIMITS

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

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

#### TEST PROCEDURE

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

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

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final scans above 1 GHz test, two methods are used: the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T (10 Hz) video bandwidth with peak detector for average measurements; and other method with resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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

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

In addition:

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

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

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

**RESULTS:**

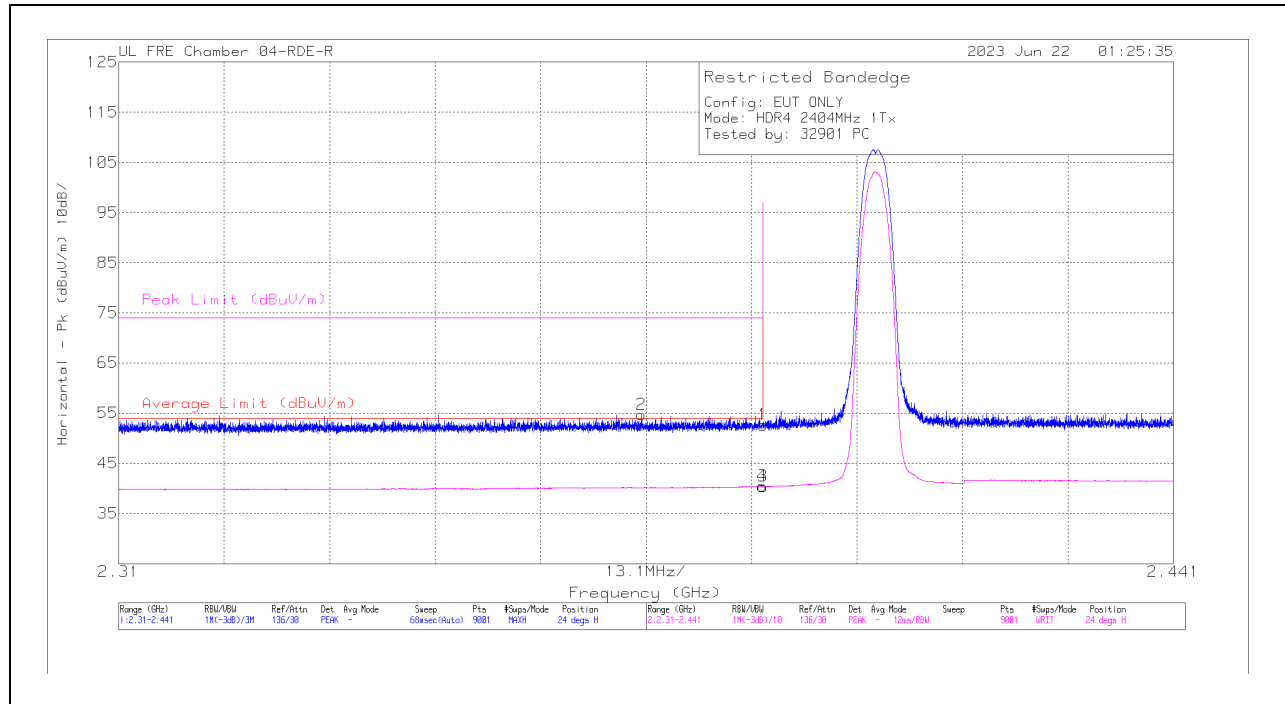
## 10.2. TRANSMITTER ABOVE 1 GHz

### 10.2.1. HIGH POWER HDR (HDR4)

#### ANT 4

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



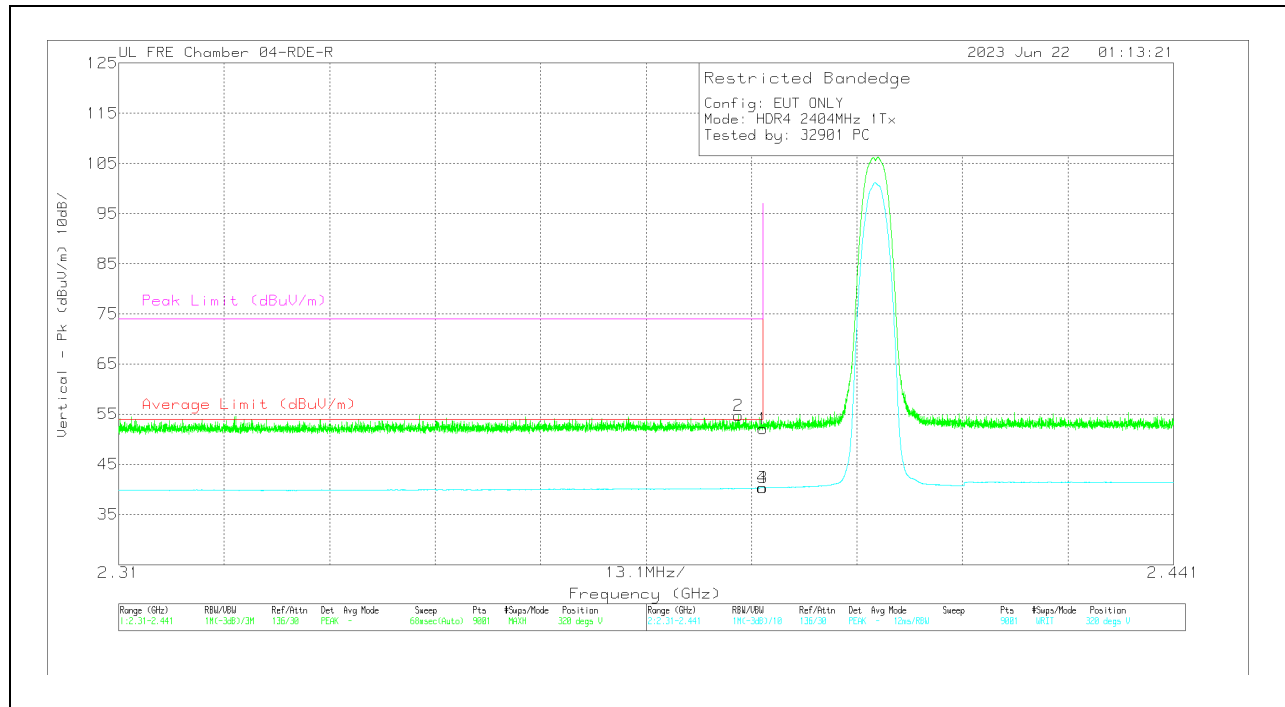
#### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.374934	63.54	PK	31.6	0	-40.41	54.73	-	-	74	-19.27	24	160	H
4	2.389956	49.15	VA1T	31.7	0	-40.44	40.41	54	-13.59	-	-	24	160	H
1	2.39	61.4	PK	31.7	0	-40.44	52.66	-	-	74	-21.34	24	160	H
3	2.39	49.14	VA1T	31.7	0	-40.44	40.4	54	-13.6	-	-	24	160	H

PK - Peak detector

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

### VERTICAL RESULT



### Trace Markers

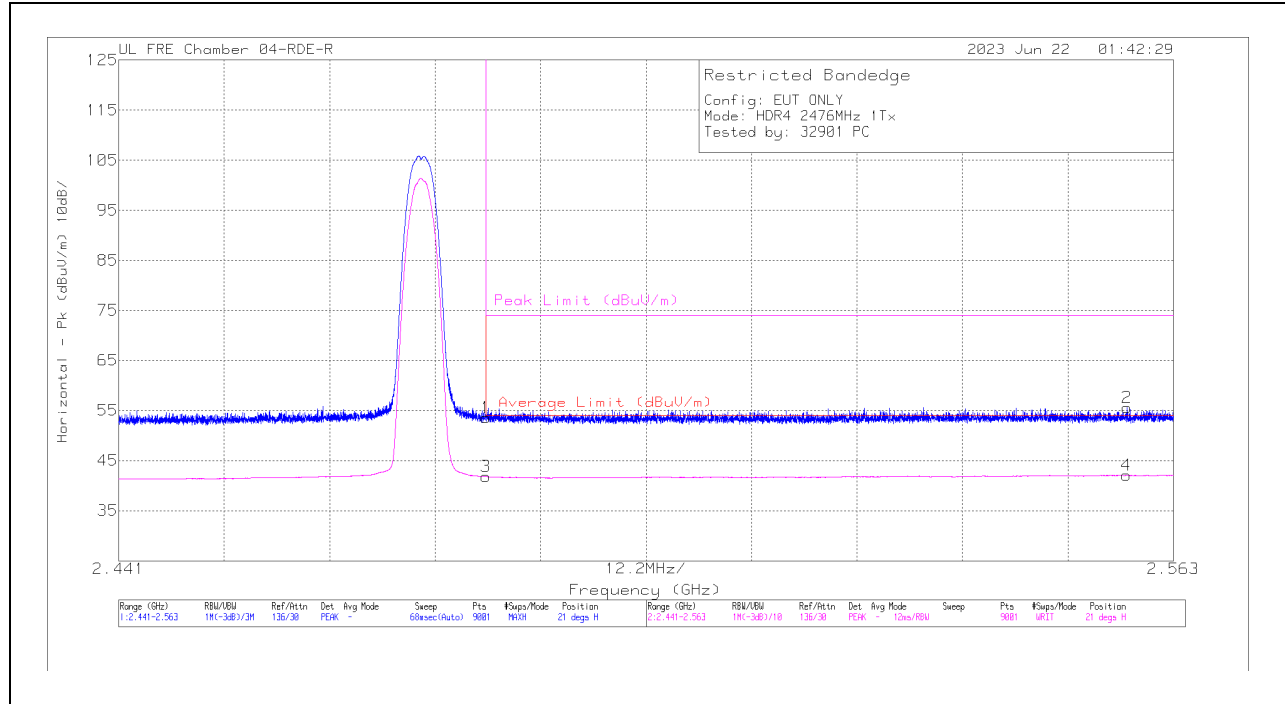
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222746 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.386987	63.52	Pk	31.7	0	-40.44	54.78	-	-	74	-19.22	320	393	V
4	2.389927	49.06	VA1T	31.7	0	-40.44	40.32	54	-13.68	-	-	320	393	V
1	2.39	60.86	Pk	31.7	0	-40.44	52.12	-	-	74	-21.88	320	393	V
3	2.39	49.03	VA1T	31.7	0	-40.44	40.29	54	-13.71	-	-	320	393	V

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



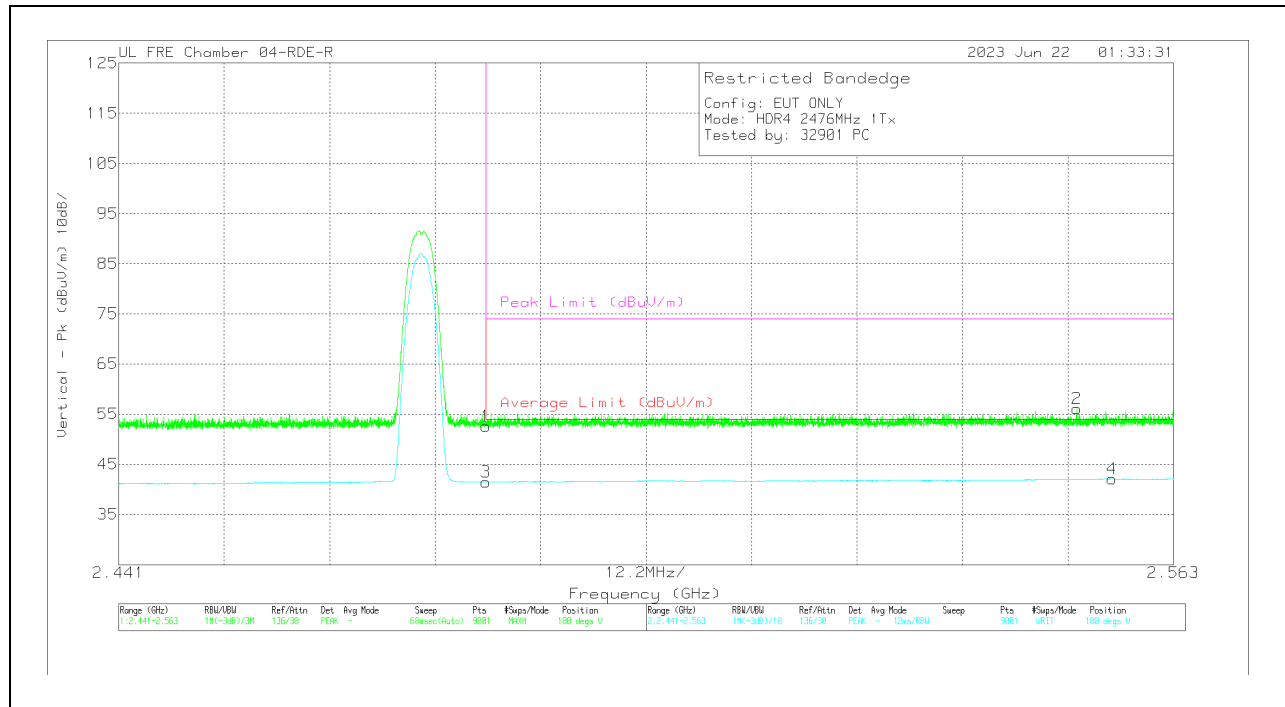
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.92	Pk	32.1	0	-40.37	53.65	-	-	74	-20.35	21	126	H
3	2.4835	50.06	VA1T	32.1	0	-40.37	41.79	54	-12.21	-	-	21	126	H
4	2.557554	49.94	VA1T	32.2	0	-40.05	42.09	54	-11.91	-	-	21	126	H
2	2.557663	63.47	Pk	32.2	0	-40.05	55.62	-	-	74	-18.38	21	126	H

Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration



### VERTICAL RESULT



### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222746 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	60.91	Pk	32.1	0	-40.37	52.64	-	-	74	-21.36	180	313	V
3	2.4835	49.77	VA1T	32.1	0	-40.37	41.5	54	-12.5	-	-	180	313	V
2	2.551807	63.96	Pk	32.2	0	-40.11	56.05	-	-	74	-17.95	180	313	V
4	2.555874	49.89	VA1T	32.2	0	-40.02	42.07	54	-11.93	-	-	180	313	V

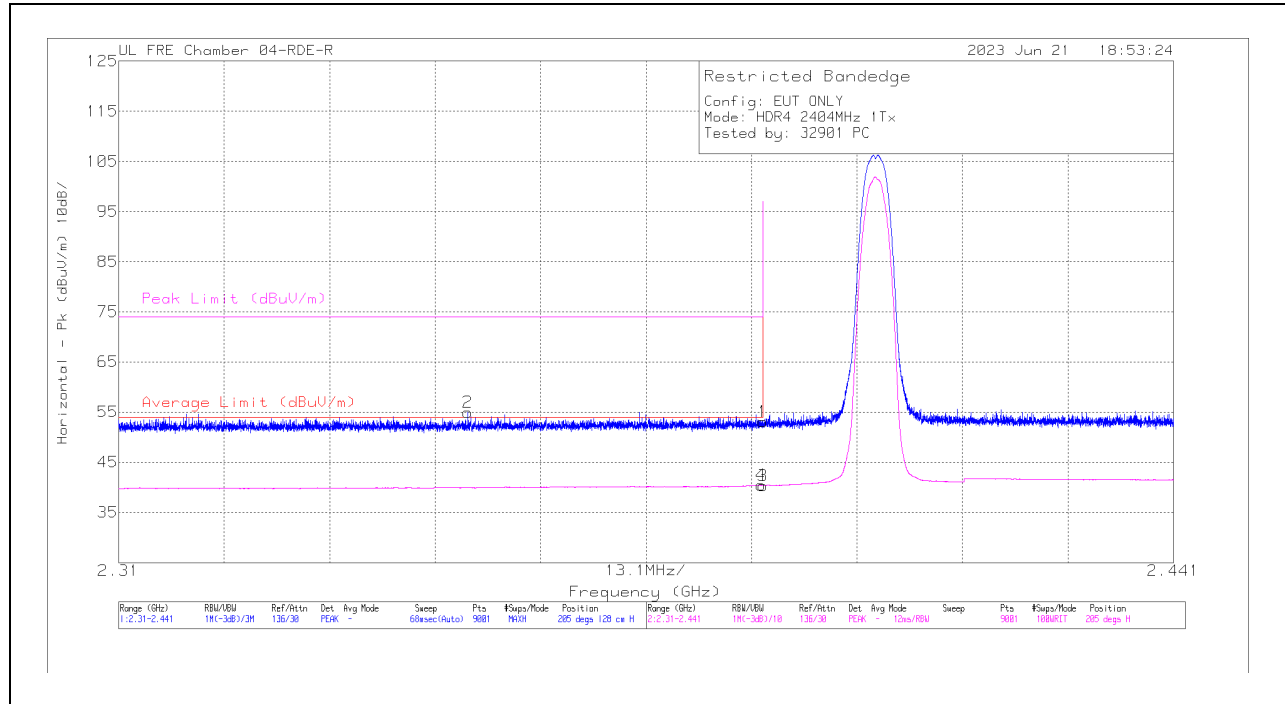
Pk - Peak detector

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

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



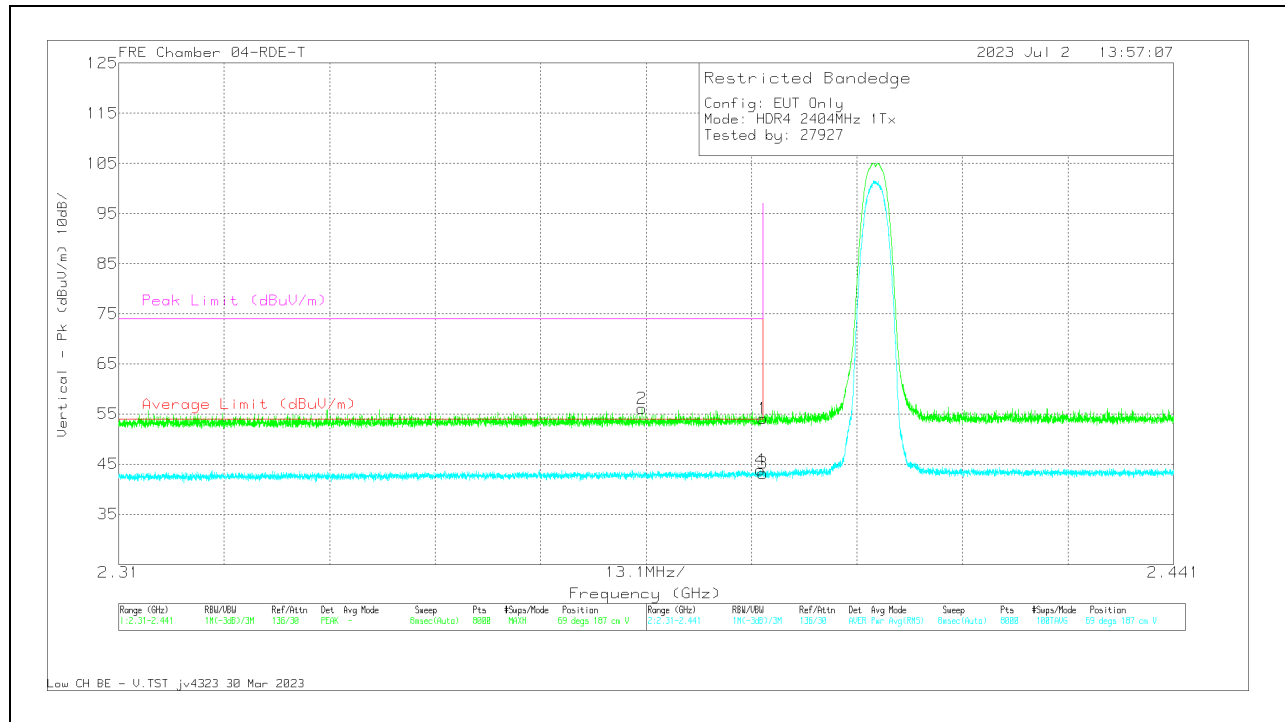
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.353333	64	Pk	31.5	0	-40.48	55.02	-	-	74	-18.98	205	128	H
4	2.389781	49.15	VA1T	31.7	0	-40.44	40.41	54	-13.59	-	-	205	128	H
1	2.39	61.82	Pk	31.7	0	-40.44	53.08	-	-	74	-20.92	205	128	H
3	2.39	49.09	VA1T	31.7	0	-40.44	40.35	54	-13.65	-	-	205	128	H

Pk - Peak detector

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

### VERTICAL RESULT



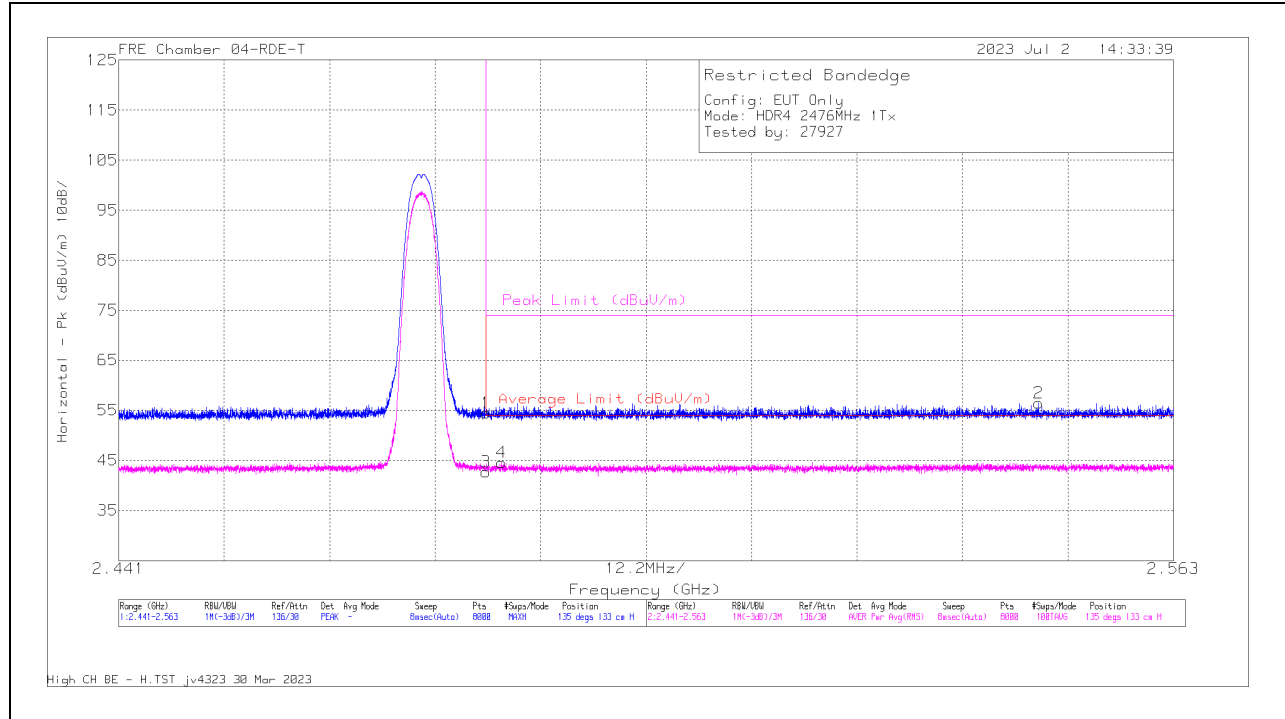
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.94	Pk	32.1	-37.89	54.15	-	-	74	-19.85	69	187	V
2	* 2.375	61.9	Pk	32.1	-37.89	56.11	-	-	74	-17.89	69	187	V
3	* 2.39	48.94	RMS	32.1	-37.89	43.15	54	-10.85	-	-	69	187	V
4	* 2.389723	49.62	RMS	32.1	-37.89	43.83	54	-10.17	-	-	69	187	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

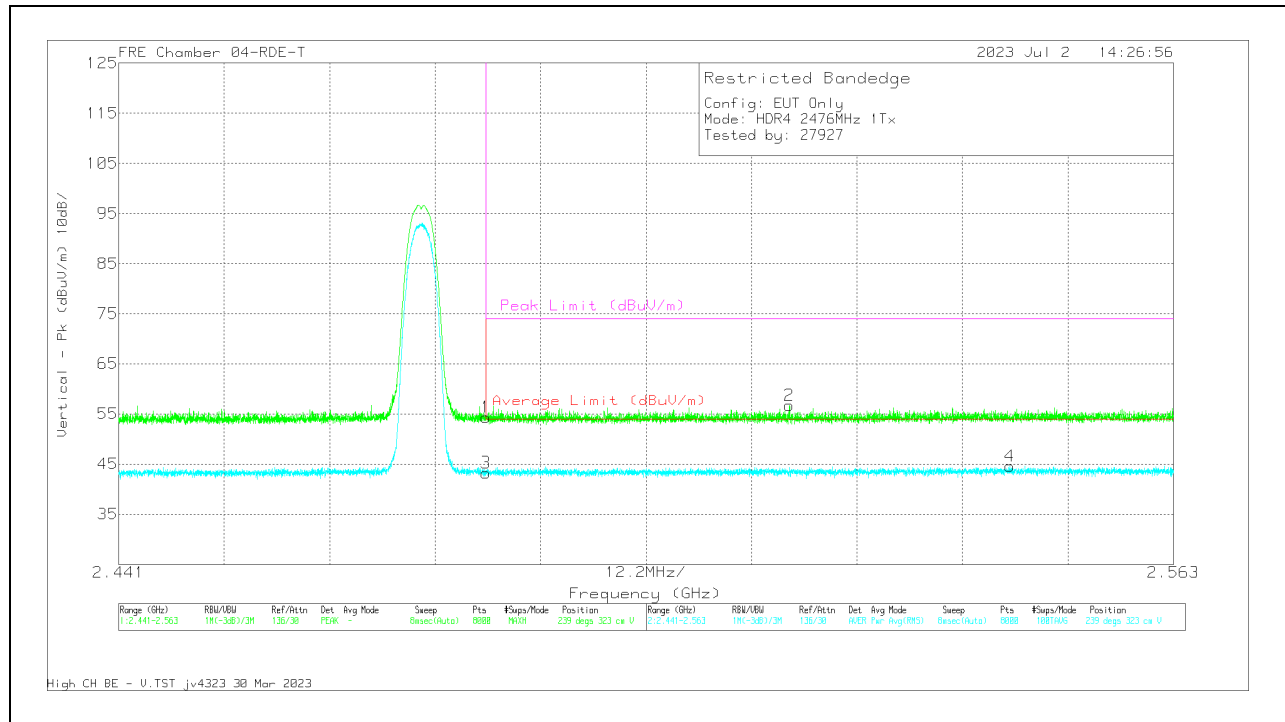


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.03	PK	32.2	-37.81	54.42	-	-	74	-19.58	135	133	H
3	* 2.4835	48.36	RMS	32.2	-37.81	42.75	54	-11.25	-	-	135	133	H
4	* 2.485277	50.25	RMS	32.2	-37.82	44.63	54	-9.37	-	-	135	133	H
2	2.547383	61.93	PK	32.3	-37.73	56.5	-	-	74	-17.5	135	133	H

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

### VERTICAL RESULT



### Trace Markers

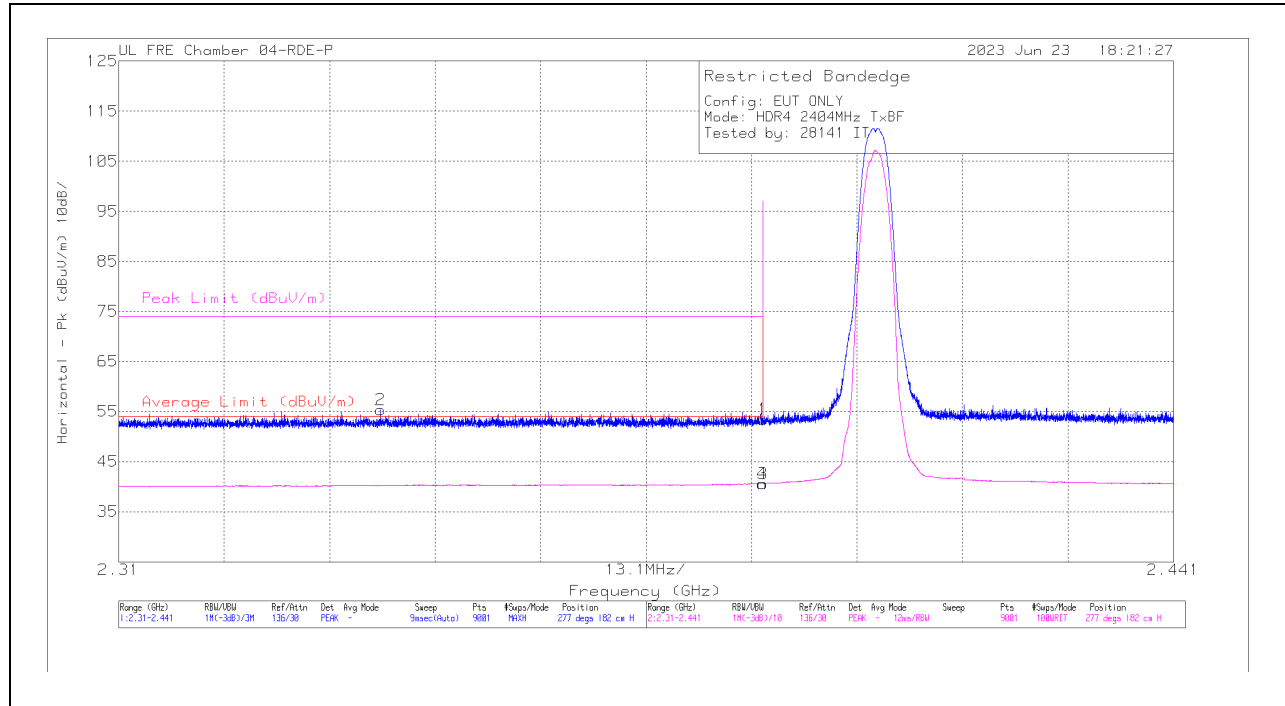
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	59.93	Pk	32.2	-37.81	54.32	-	-	74	-19.68	239	323	V
3	* 2.4835	48.88	RMS	32.2	-37.81	43.27	54	-10.73	-	-	239	323	V
2	2.518587	62.2	Pk	32.3	-37.81	56.69	-	-	74	-17.31	239	323	V
4	2.544043	50.1	RMS	32.3	-37.76	44.64	54	-9.36	-	-	239	323	V

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

**10.2.2. HIGH POWER HDR TXBF (HDR4)**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

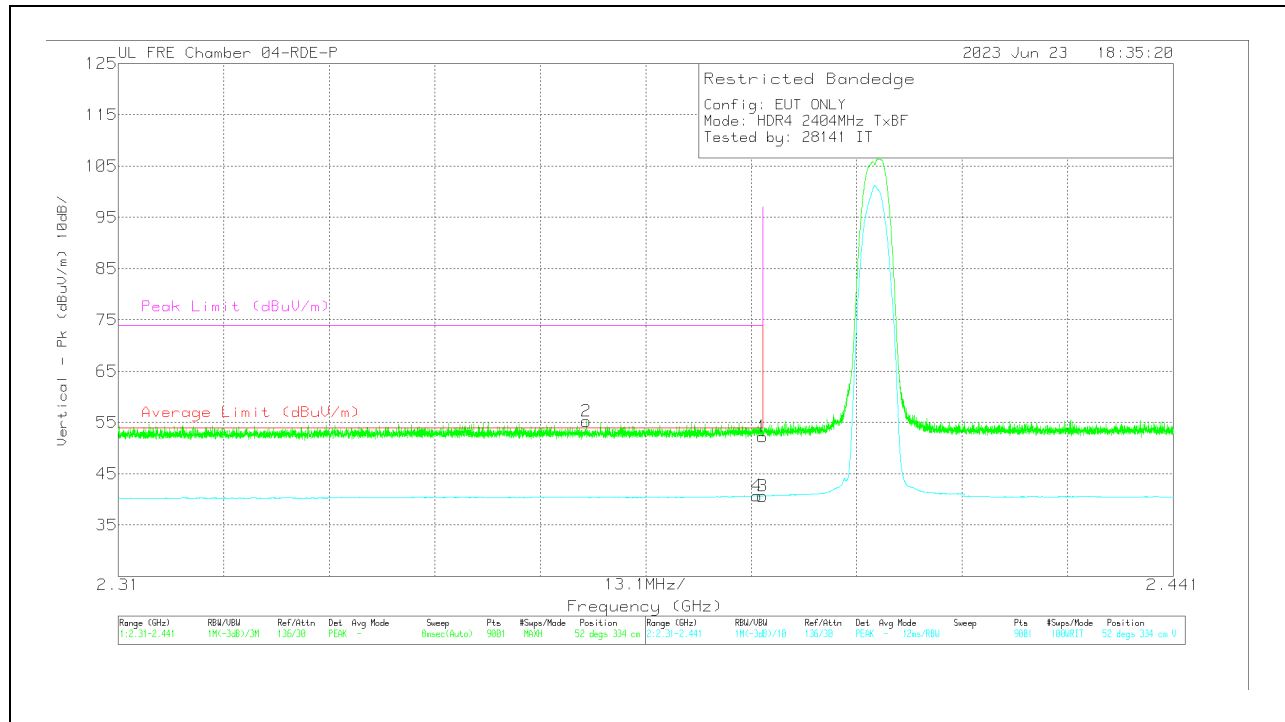


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.342518	63.7	Pk	31.4	-39.79	55.31	-	-	74	-18.69	277	182	H
4	2.389927	48.73	VA1T	31.7	-39.79	40.64	54	-13.36	-	-	277	182	H
1	2.39	61.58	Pk	31.7	-39.79	53.49	-	-	74	-20.51	277	182	H
3	2.39	48.72	VA1T	31.7	-39.79	40.63	54	-13.37	-	-	277	182	H

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

### VERTICAL RESULT



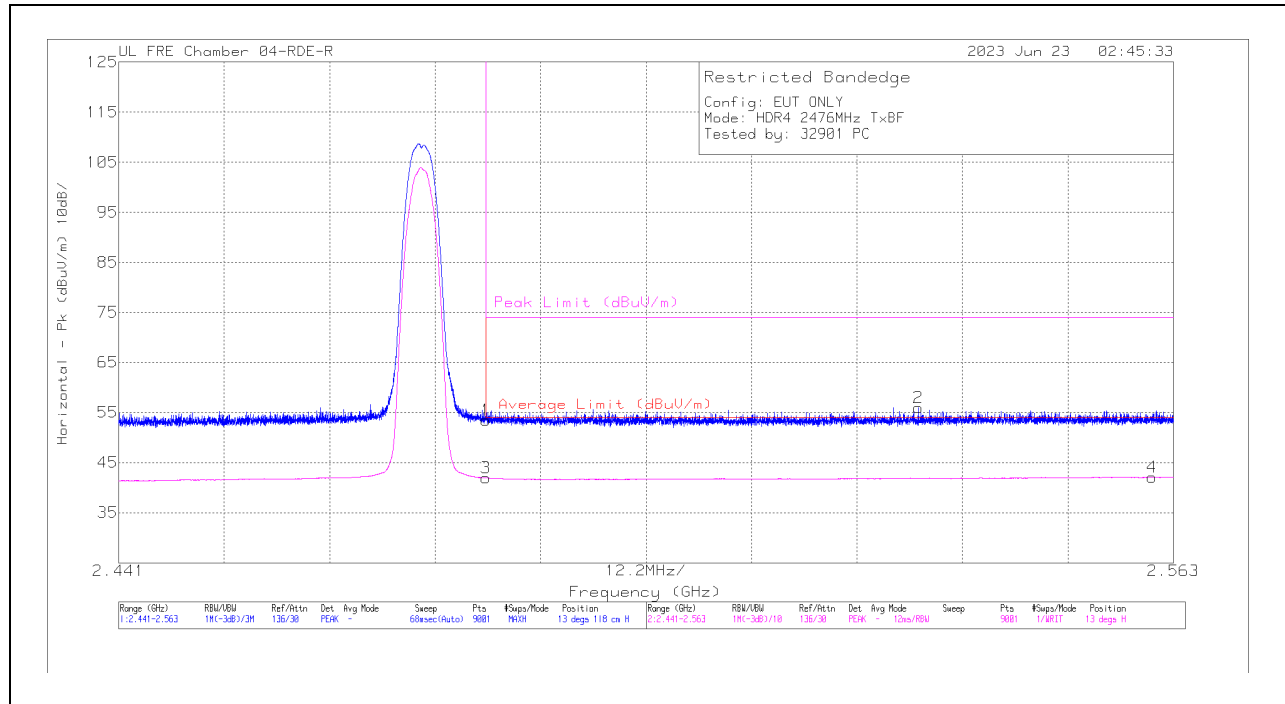
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.368137	63.4	Pk	31.6	-39.76	55.24	-	-	74	-18.76	52	334	V
4	2.389301	48.78	VA1T	31.7	-39.78	40.7	54	-13.3	-	-	52	334	V
1	2.39	60.31	Pk	31.7	-39.79	52.22	-	-	74	-21.78	52	334	V
3	2.39	48.73	VA1T	31.7	-39.79	40.64	54	-13.36	-	-	52	334	V

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

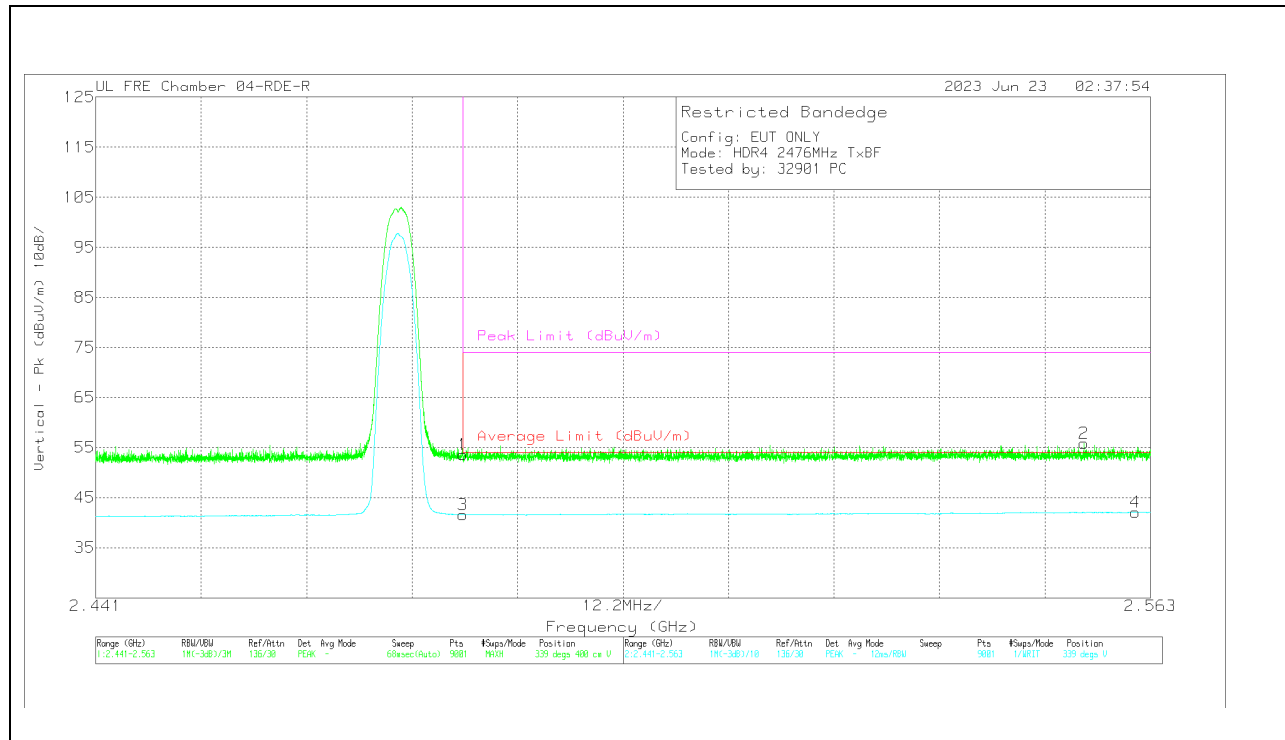


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.73	Pk	32.1	0	-40.37	53.46	-	-	74	-20.54	13	118	H
3	2.4835	50.21	VA1T	32.1	0	-40.37	41.94	54	-12.06	-	-	13	118	H
2	2.53479	64.05	Pk	32.1	0	-40.12	56.03	-	-	74	-17.97	13	118	H
4	2.56051	50	VA1T	32.2	0	-40.07	42.13	54	-11.87	-	-	13	118	H

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	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.88	Pk	32.1	0	-40.37	53.61	-	-	74	-20.39	339	400	V
3	2.4835	49.87	VA1T	32.1	0	-40.37	41.6	54	-12.4	-	-	339	400	V
2	2.55291	63.63	Pk	32.2	0	-40.03	55.8	-	-	74	-18.2	339	400	V
4	2.561282	49.97	VA1T	32.2	0	-40.06	42.11	54	-11.89	-	-	339	400	V

Pk - Peak detector

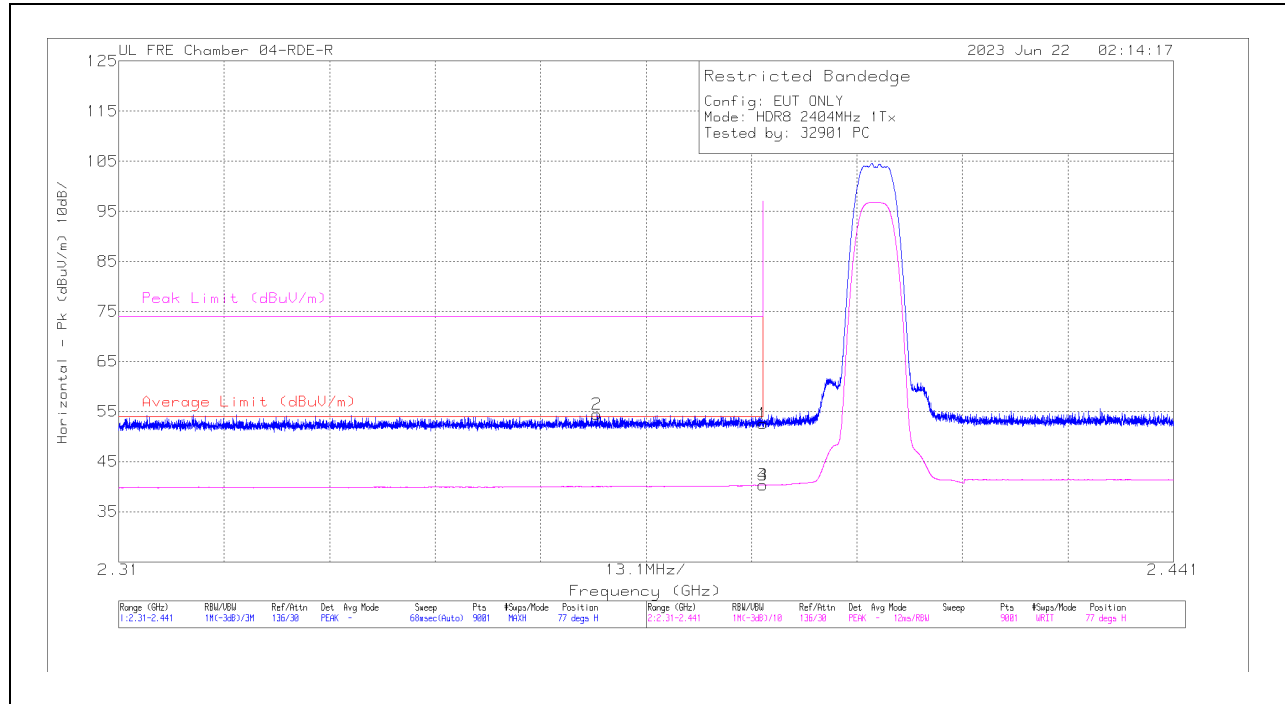
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### 10.2.3. HIGH POWER HDR (HDR8)

#### ANT 4

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT

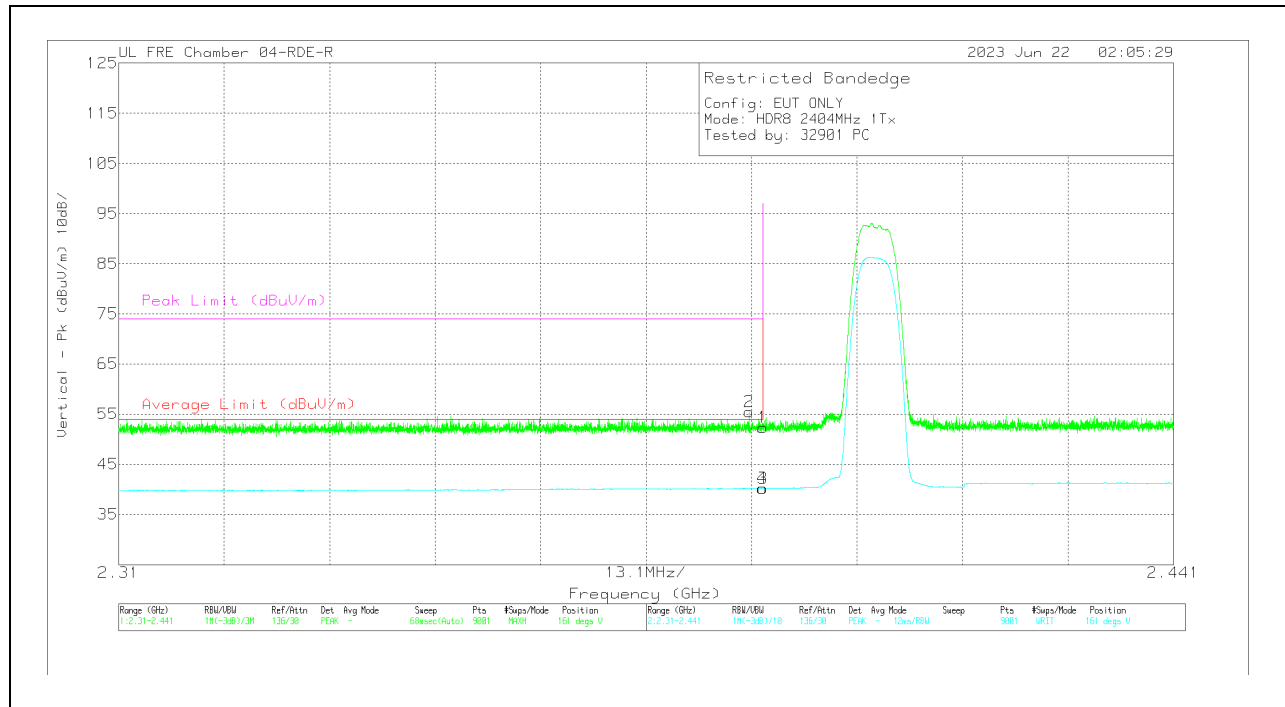


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.369418	63.34	Pk	31.6	0	-40.47	54.47	-	-	74	-19.53	77	182	H
1	2.39	61.34	Pk	31.7	0	-40.44	52.8	-	-	74	-21.4	77	182	H
3	2.39	49.1	VA1T	31.7	0	-40.44	40.36	54	-13.64	-	-	77	182	H
4	2.39	49.1	VA1T	31.7	0	-40.44	40.36	54	-13.64	-	-	77	182	H

Pk - Peak detector

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

### VERTICAL RESULT

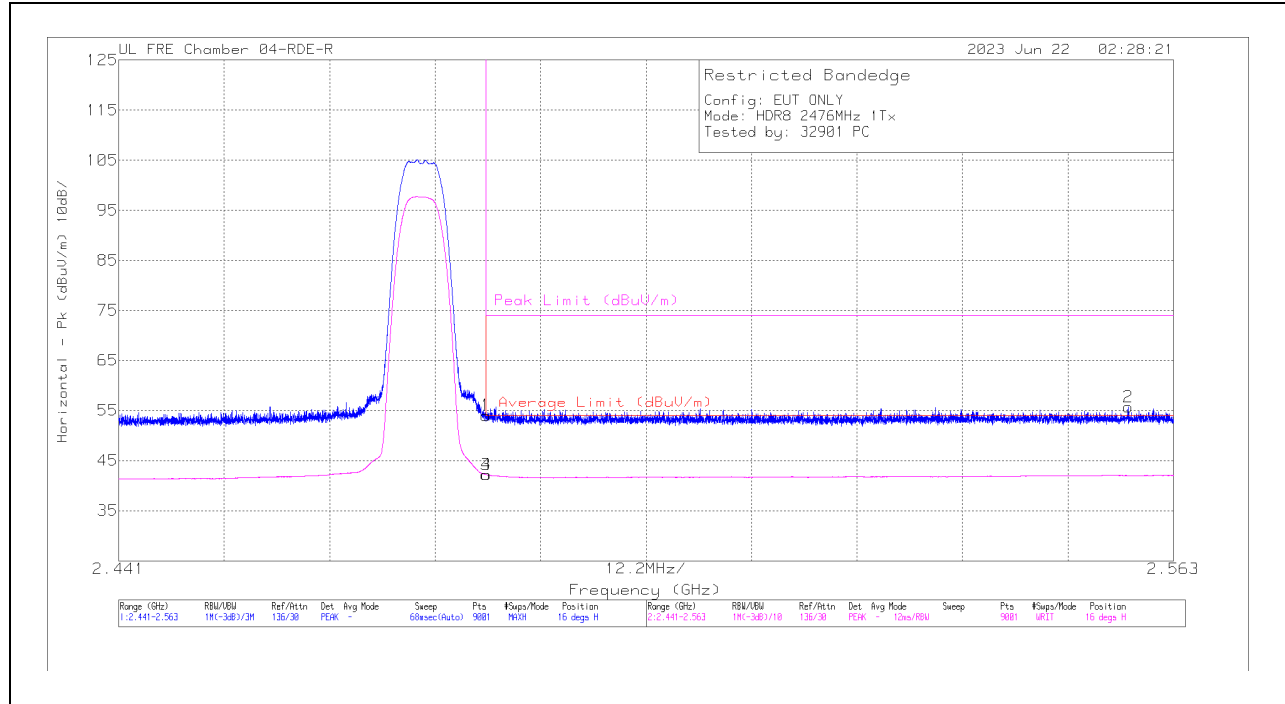


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.388268	64.21	Pk	31.7	0	-40.43	55.48	-	-	74	-18.52	161	377	V
4	2.389927	48.98	VA1T	31.7	0	-40.44	40.24	54	-13.76	-	-	161	377	V
1	2.39	61.09	Pk	31.7	0	-40.44	52.35	-	-	74	-21.65	161	377	V
3	2.39	48.97	VA1T	31.7	0	-40.44	40.23	54	-13.77	-	-	161	377	V

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

**BANDEDGE (HIGH CHANNEL)**

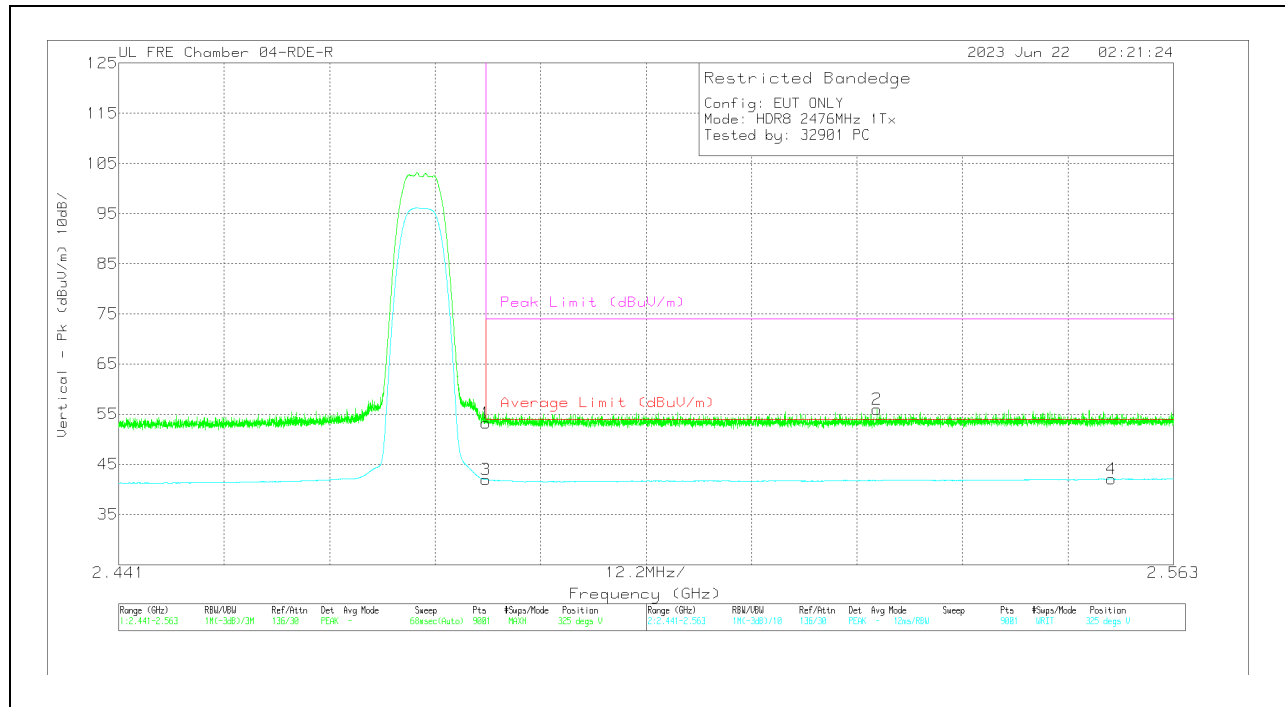
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	62.31	Pk	32.1	0	-40.37	54.04	-	-	74	-19.96	16	126	H
3	2.4835	50.47	VA1T	32.1	0	-40.37	42.2	54	-11.8	-	-	16	126	H
4	2.483512	50.47	VA1T	32.1	0	-40.37	42.2	54	-11.8	-	-	16	126	H
2	2.557744	63.61	Pk	32.2	0	-40.05	55.76	-	-	74	-18.24	16	126	H

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

### VERTICAL RESULT



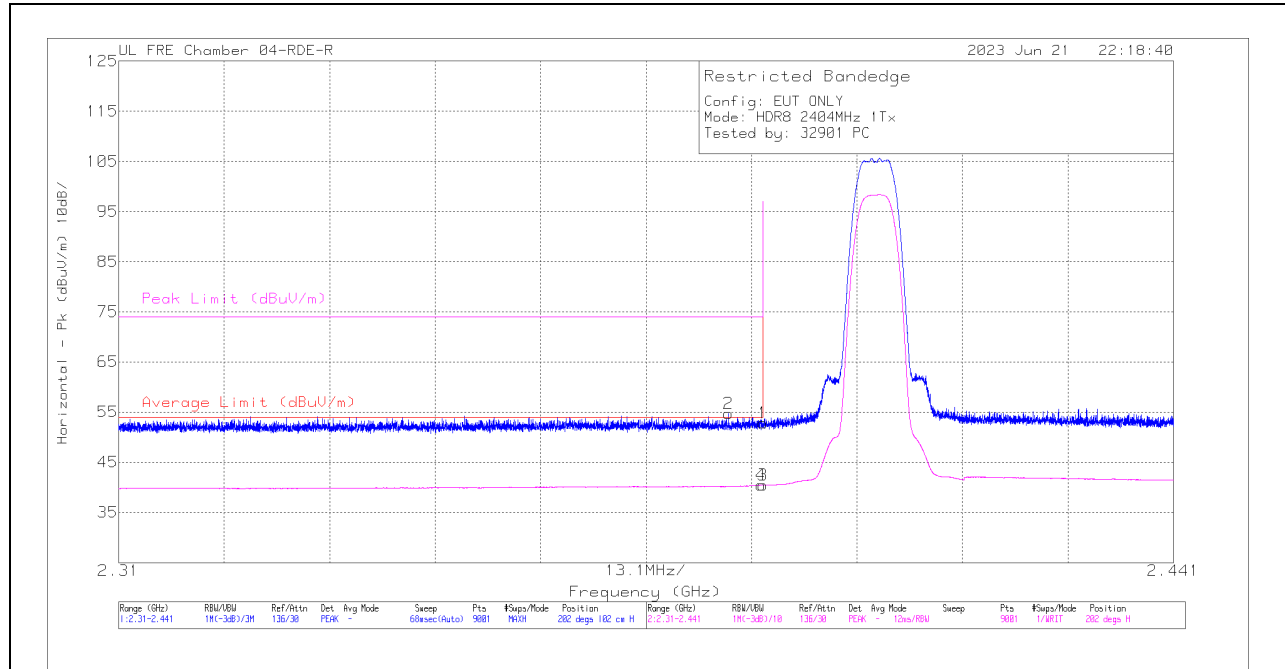
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.51	Pk	32.1	-40.37	53.24	-	-	74	-20.76	325	328	V
3	2.4835	50.2	VA1T	32.1	-40.37	41.93	54	-12.07	-	-	325	328	V
2	2.528694	64.07	Pk	32.1	-40.21	55.96	-	-	74	-18.04	325	328	V
4	2.555846	49.91	VA1T	32.2	-40.02	42.09	54	-11.91	-	-	325	328	V

Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

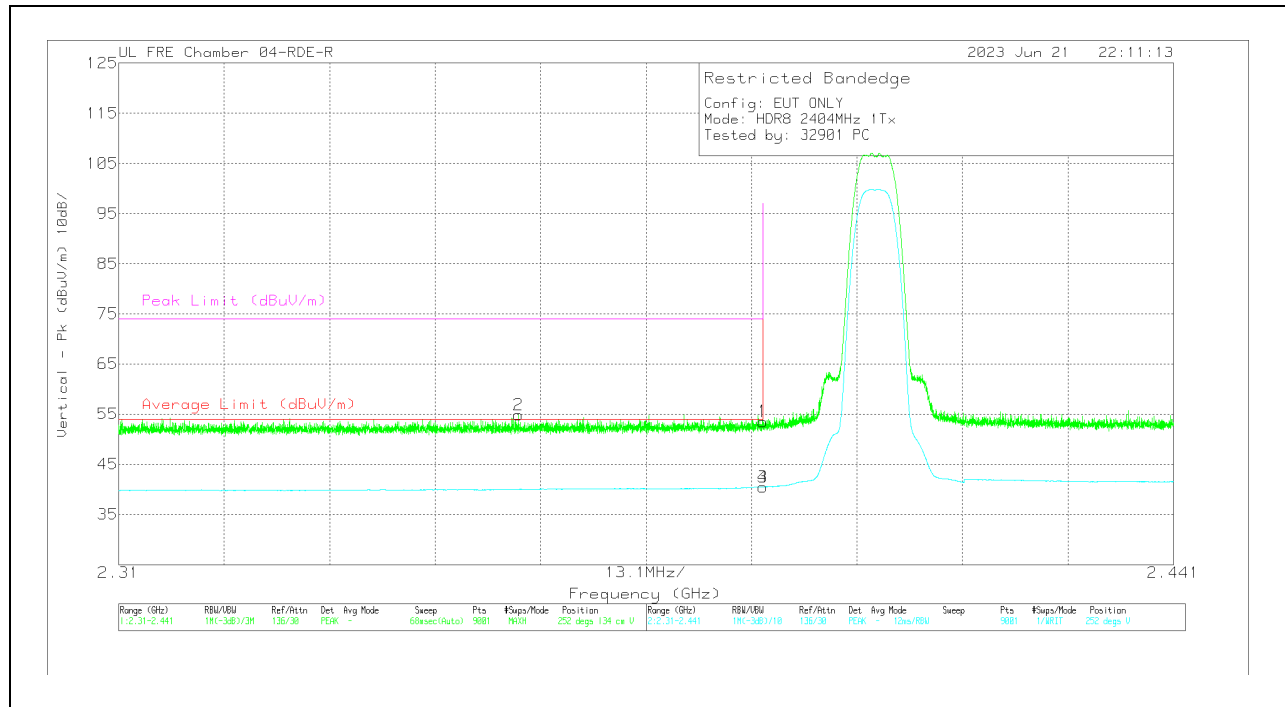


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.385749	63.46	Pk	31.7	0	-40.45	54.71	-	-	74	-19.29	202	102	H
4	2.389781	49.19	VA1T	31.7	0	-40.44	40.45	54	-13.55	-	-	202	102	H
1	2.39	61.6	Pk	31.7	0	-40.44	52.86	-	-	74	-21.14	202	102	H
3	2.39	49.15	VA1T	31.7	0	-40.44	40.41	54	-13.59	-	-	202	102	H

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

### VERTICAL RESULT



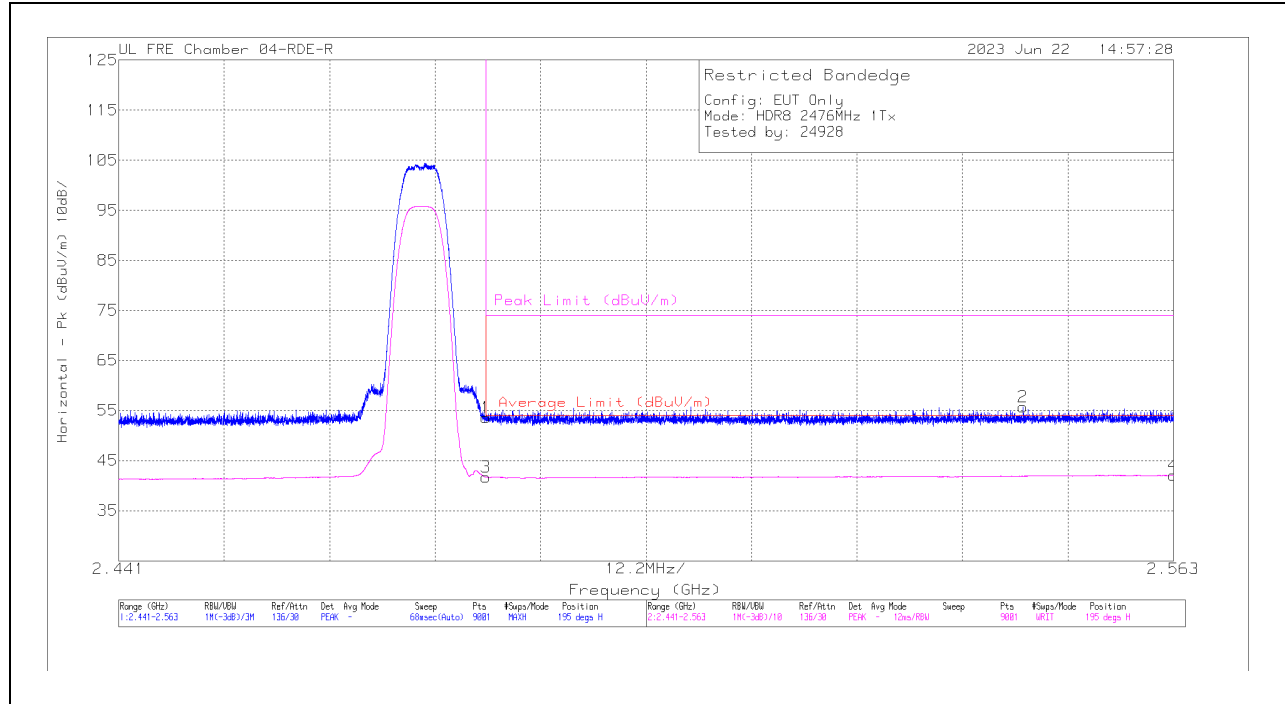
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) -3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.359651	63.8	Pk	31.5	0	-40.44	54.86	-	-	74	-19.14	252	134	V
1	2.39	62.28	PK	31.7	0	-40.44	53.54	-	-	74	-20.46	252	134	V
3	2.39	49.22	VA1T	31.7	0	-40.44	40.48	54	-13.52	-	-	252	134	V
4	2.39	49.22	VA1T	31.7	0	-40.44	40.48	54	-13.52	-	-	252	134	V

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



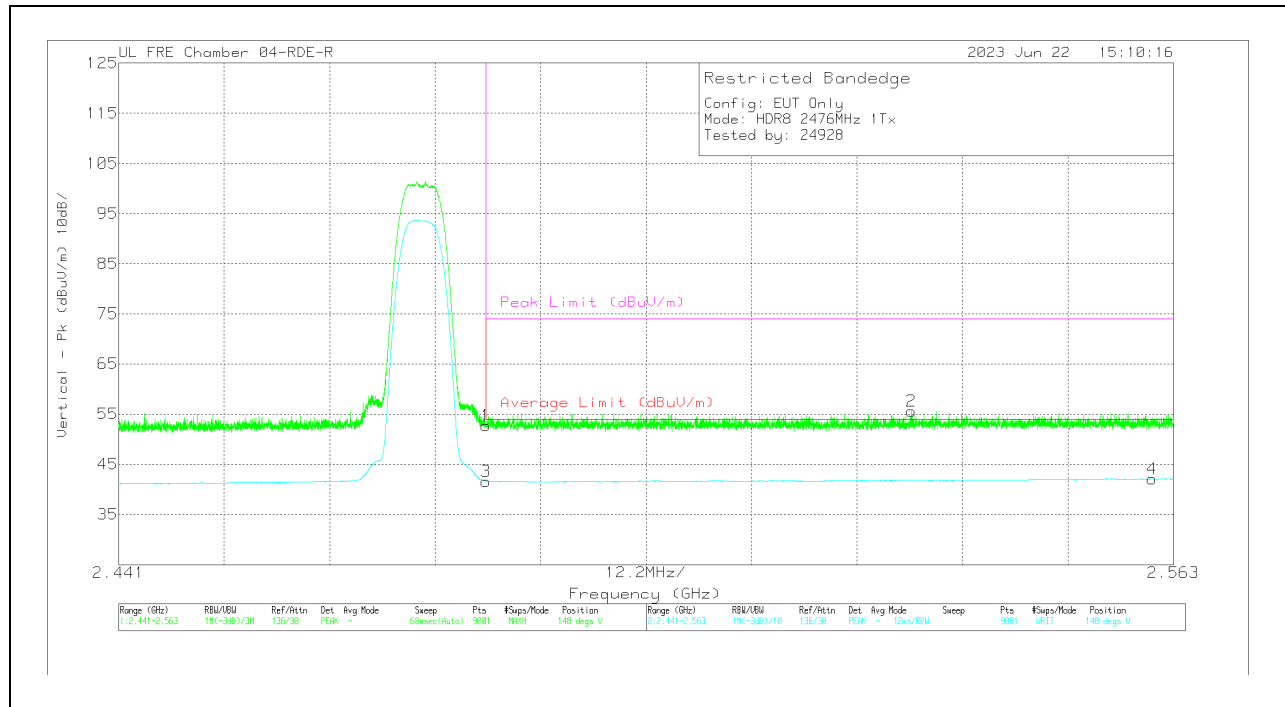
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.81	Pk	32.1	-40.37	53.54	-	-	74	-20.46	195	119	H
3	2.4835	49.97	VA1T	32.1	-40.37	41.7	54	-12.3	-	-	195	119	H
2	2.545612	63.65	Pk	32.2	-40.09	55.76	-	-	74	-18.24	195	119	H
4	2.562977	49.94	VA1T	32.2	-40.04	42.1	54	-11.9	-	-	195	119	H

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration



### VERTICAL RESULT



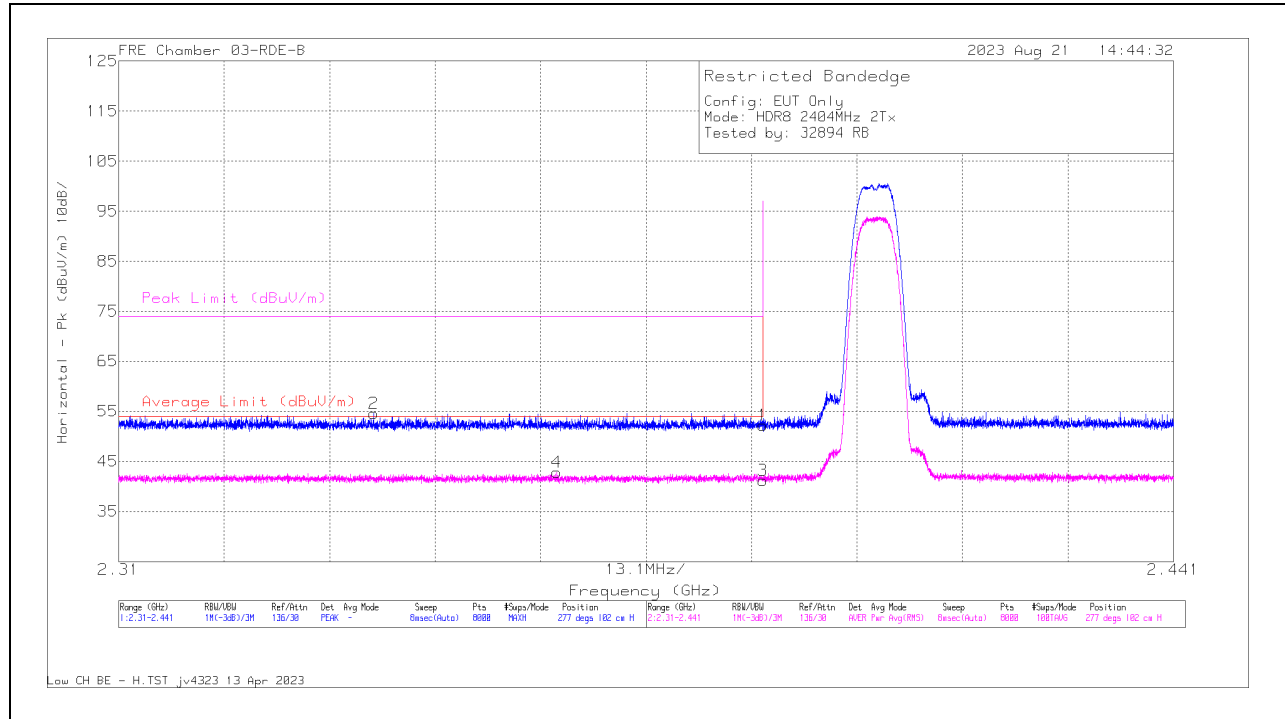
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	222740 ACF(dB) - 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.01	Pk	32.1	-40.37	52.74	-	-	74	-21.26	148	373	V
3	2.4835	49.9	VA1T	32.1	-40.37	41.63	54	-12.37	-	-	148	373	V
2	2.532679	63.65	Pk	32.1	-40.12	55.63	-	-	74	-18.37	148	373	V
4	2.56051	49.94	VA1T	32.2	-40.07	42.07	54	-11.93	-	-	148	373	V

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

**10.2.4. HIGH POWER HDR TXBF (HDR8)**

**BANDEDGE (LOW CHANNEL)**

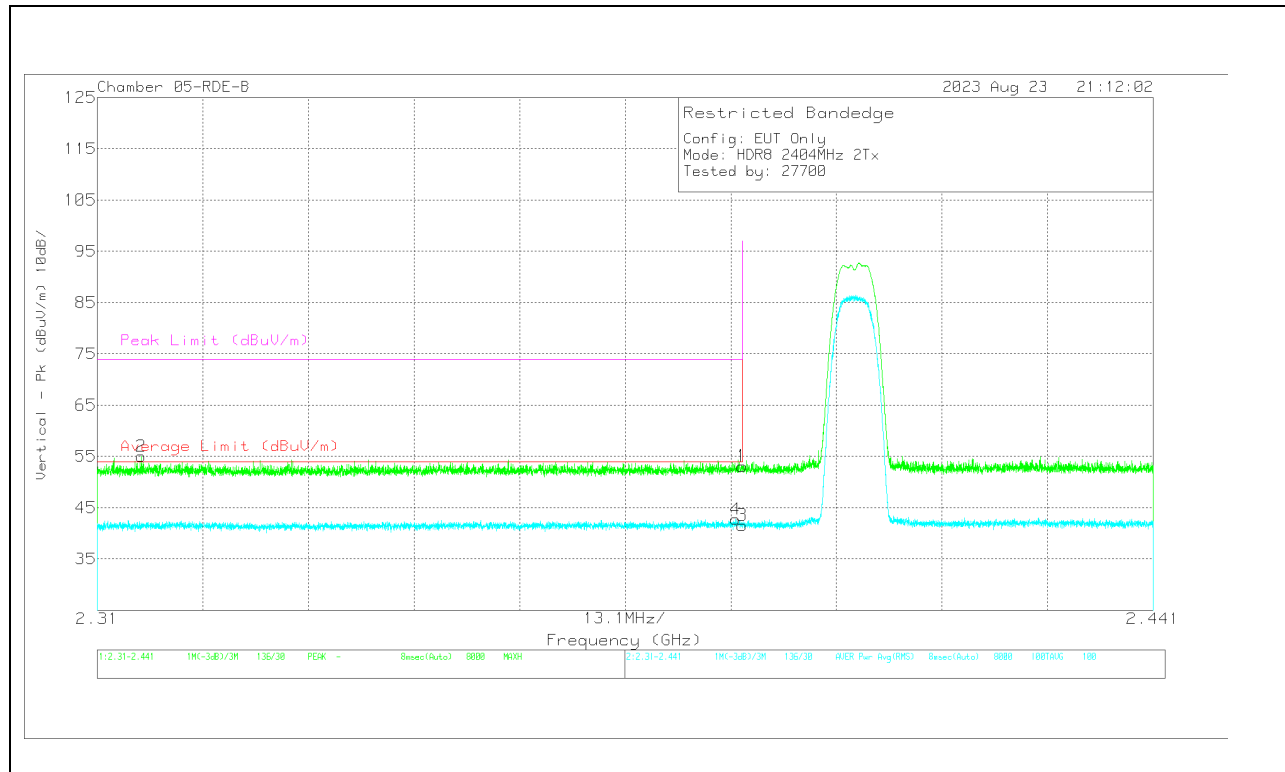
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	230300 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.341657	63.82	PK	32.1	-41.27	54.65	-	-	74	-19.35	277	102	H
4	* 2.364437	51.89	RMS	32.1	-41.2	42.79	54	-11.21	-	-	277	102	H
1	* 2.39	61.21	PK	32.2	-41.2	52.21	-	-	74	-21.79	277	102	H
3	* 2.39	50.25	RMS	32.2	-41.2	41.25	54	-12.75	-	-	277	102	H

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

### VERTICAL RESULT

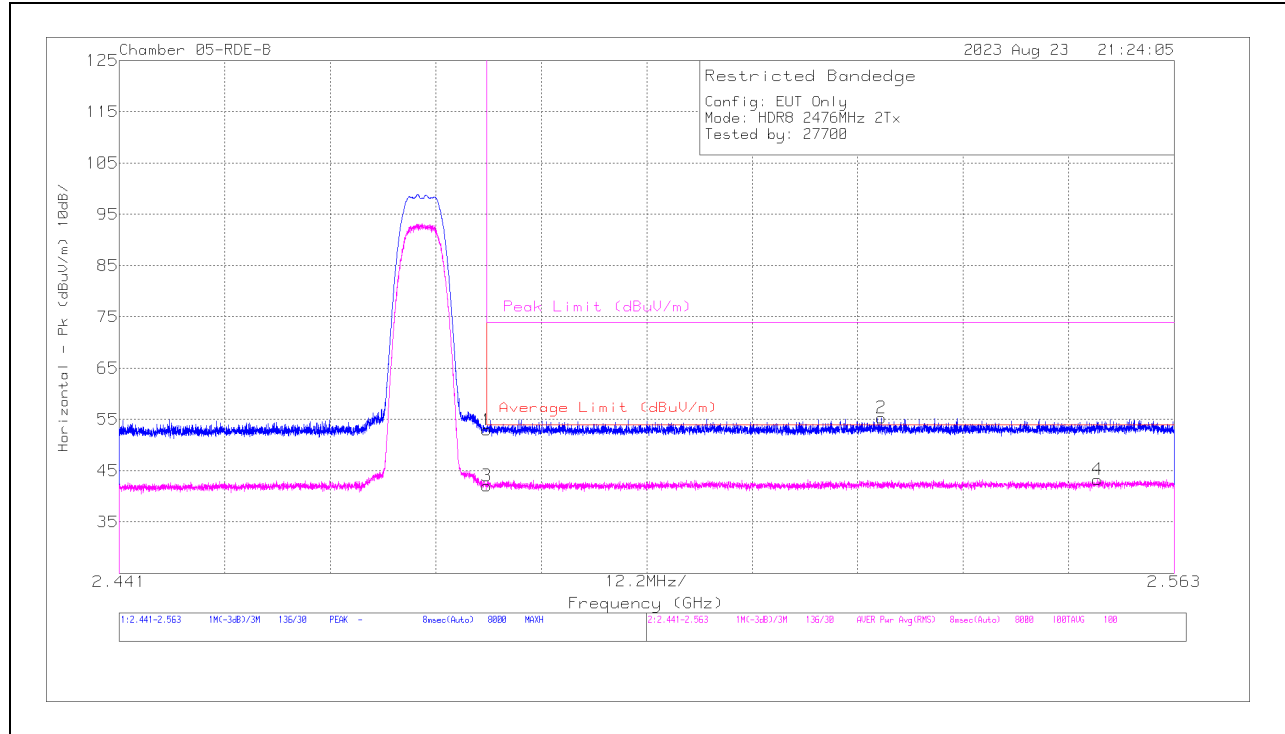


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2.31547	63.86	Pk	31.8	0	-40.63	55.03	-	-	74	-18.97	34	150	V
4	2.389166	51.22	RMS	32.1	0	-40.58	42.74	54	-11.26	-	-	34	150	V
1	2.39	61.64	Pk	32.1	0	-40.64	53.1	-	-	74	-20.9	34	150	V
3	2.39	50.12	RMS	32.1	0	-40.64	41.58	54	-12.42	-	-	34	150	V

Pk - Peak detector  
RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)**

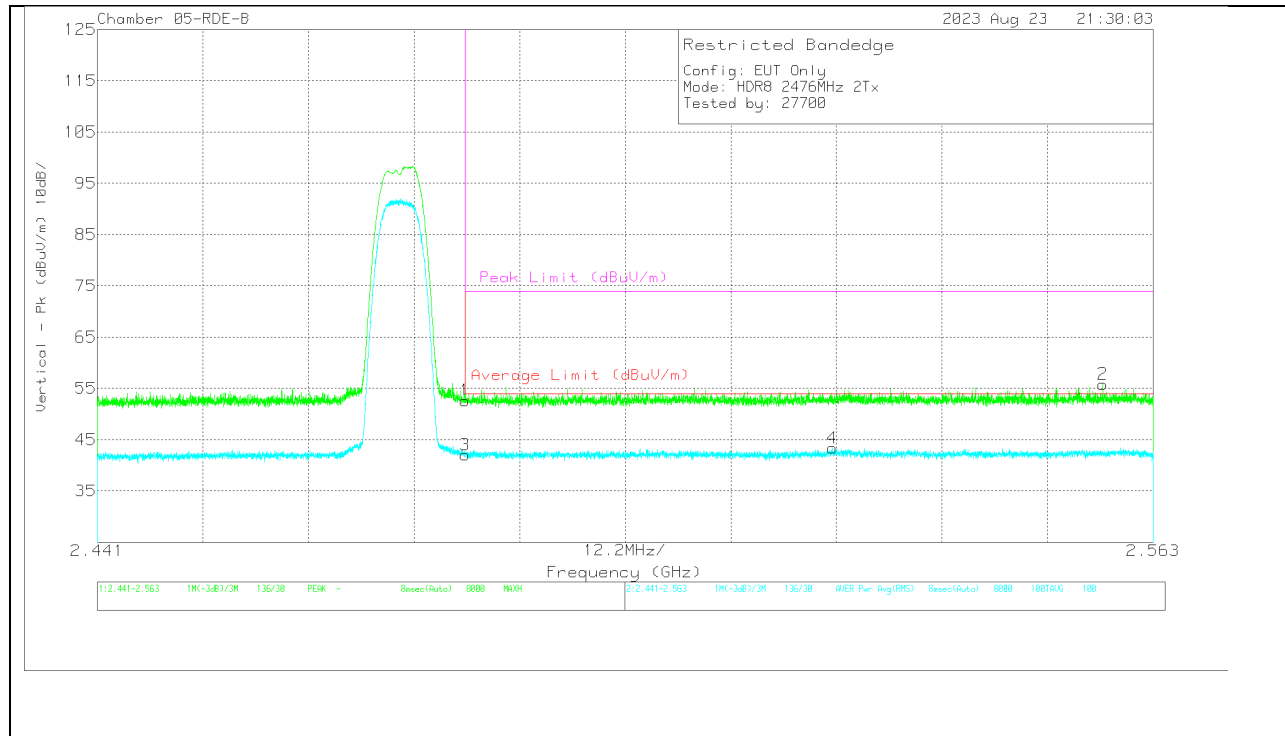
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61	Pk	32.4	0	-40.47	52.93	-	-	74	-21.07	169	122	H
3	2.4835	50.12	RMS	32.4	0	-40.47	42.05	54	-11.95	-	-	169	122	H
2	2.529157	63.17	Pk	32.5	0	-40.35	55.32	-	-	74	-18.68	169	122	H
4	2.554155	50.83	RMS	32.5	0	-40.04	43.29	54	-10.71	-	-	169	122	H

Pk - Peak detector  
 RMS - RMS detection

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	60.71	Pk	32.4	0	-40.47	52.64	-	-	74	-21.36	291	155	V
3	2.4835	50.09	RMS	32.4	0	-40.47	42.02	54	-11.98	-	-	291	155	V
4	2.525923	51.12	RMS	32.5	0	-40.25	43.37	54	-10.63	-	-	291	155	V
2	2.557174	63.34	Pk	32.5	0	-40.04	55.8	-	-	74	-18.2	291	155	V

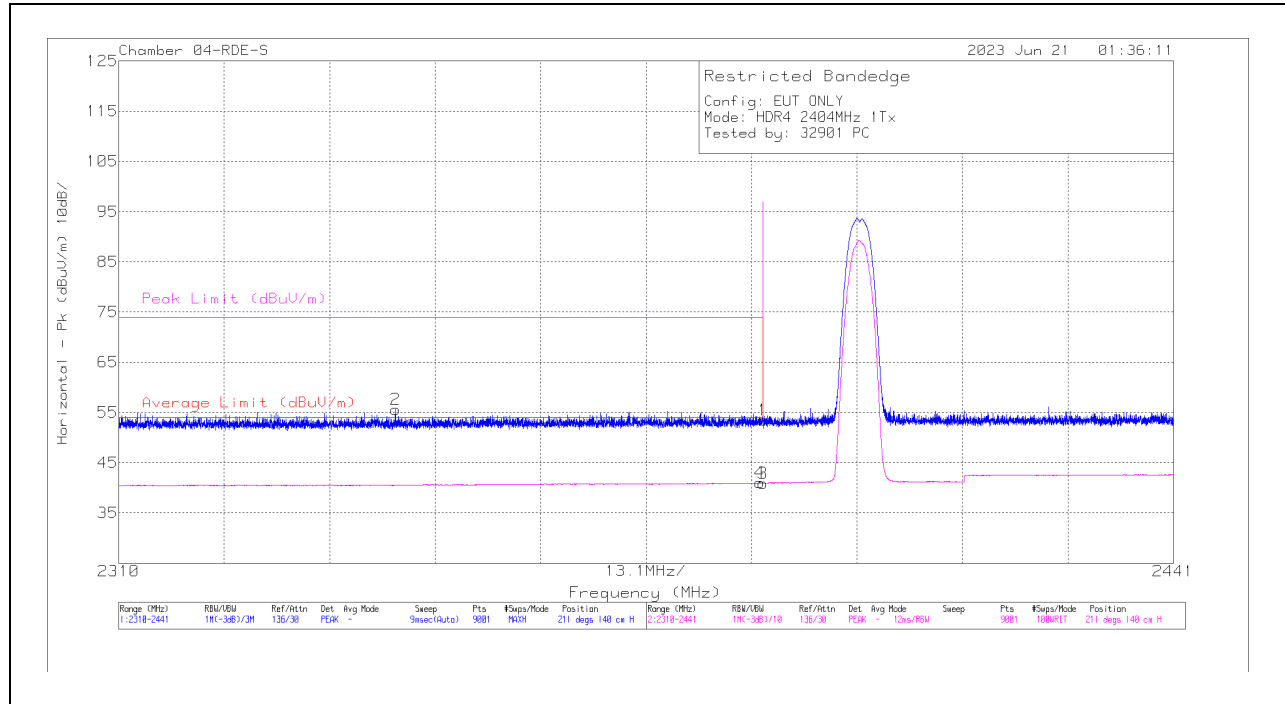
Pk - Peak detector  
 RMS - RMS detection

### 10.2.5. LOW POWER HDR (HDR4)

**ANT 4**

**BANDEDGE (LOW CHANNEL)**

### HORIZONTAL RESULT

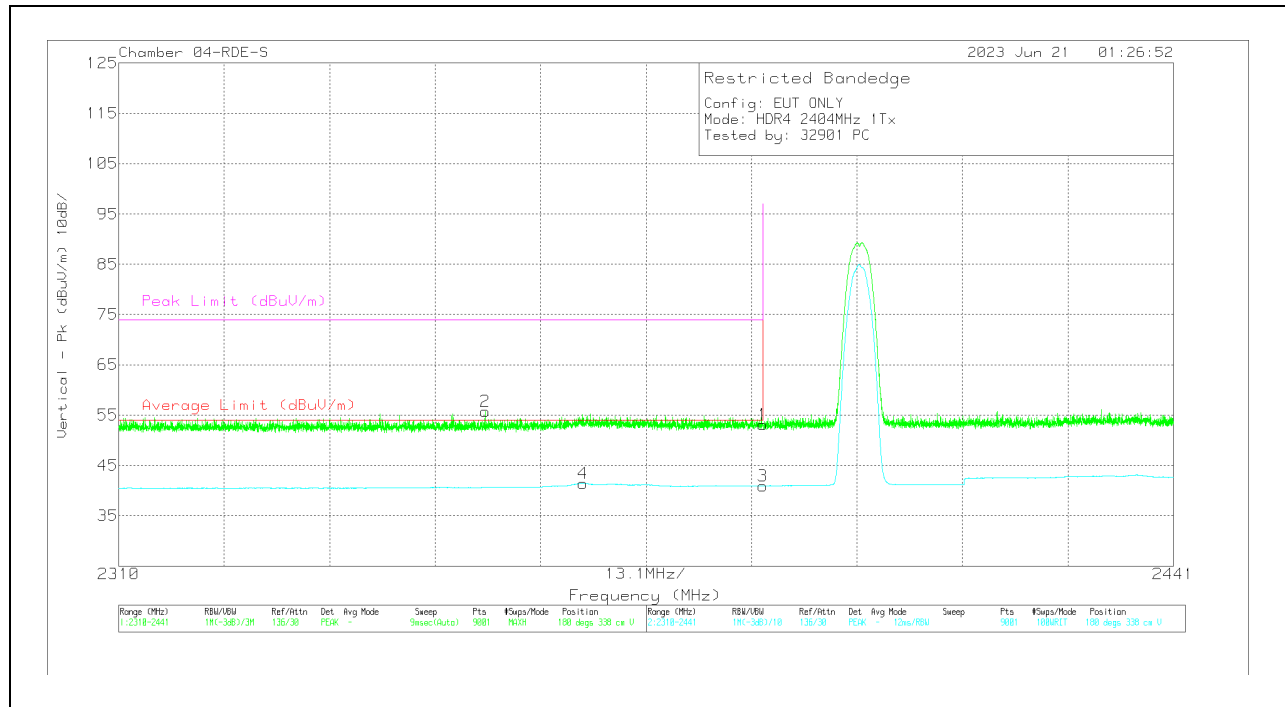


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2344.381	63.83	Pk	32.1	0	-40.35	55.58	-	-	74	-18.42	211	140	H
4	2389.592	48.88	VA1T	32.3	0	-40.2	40.98	54	-13.02	-	-	211	140	H
1	2390	61.37	Pk	32.3	0	-40.2	53.47	-	-	74	-20.53	211	140	H
3	2390	48.84	VA1T	32.3	0	-40.2	40.94	54	-13.06	-	-	211	140	H

Pk - Peak detector

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

### VERTICAL RESULT



### Trace Markers

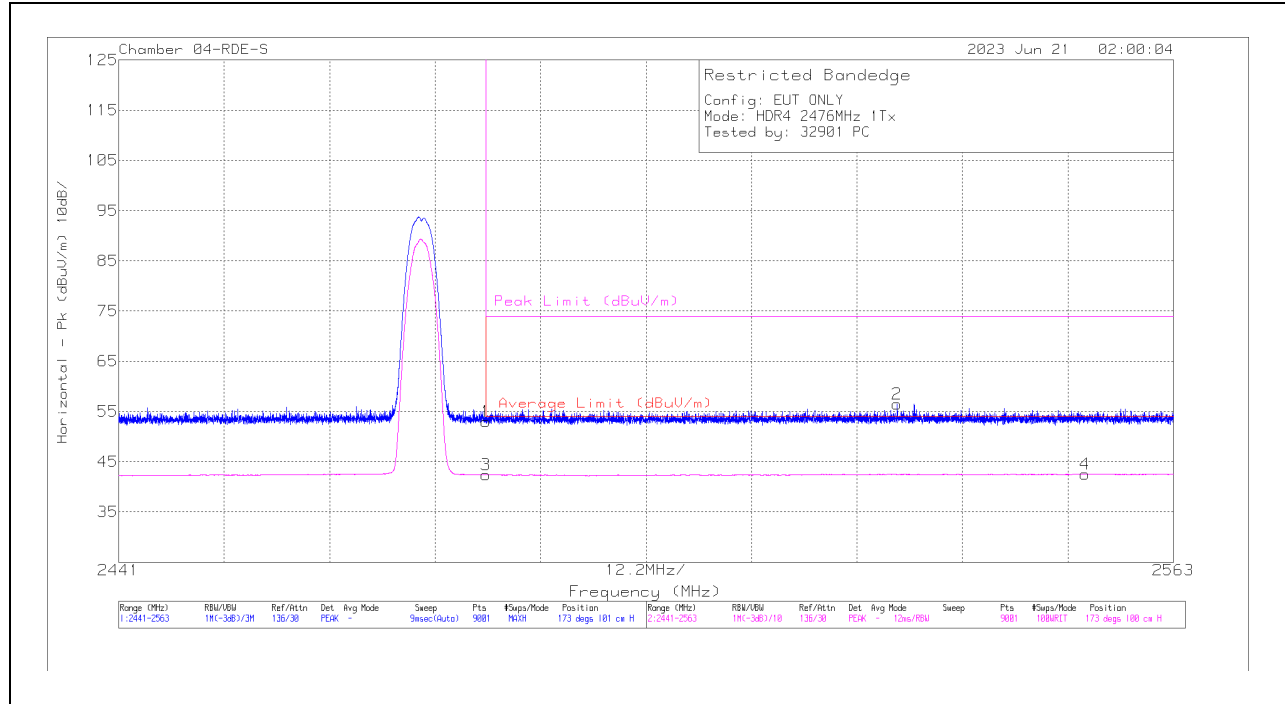
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mHz	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2355.531	63.96	Pk	32.1	0	-40.31	55.75	-	-	74	-18.25	180	338	V
4	2367.671	49.55	VA1T	32.2	0	-40.29	41.46	54	-12.54	-	-	180	338	V
1	2390	61.01	Pk	32.3	0	-40.2	53.11	-	-	74	-20.89	180	338	V
3	2390	48.8	VA1T	32.3	0	-40.2	40.9	54	-13.1	-	-	180	338	V

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

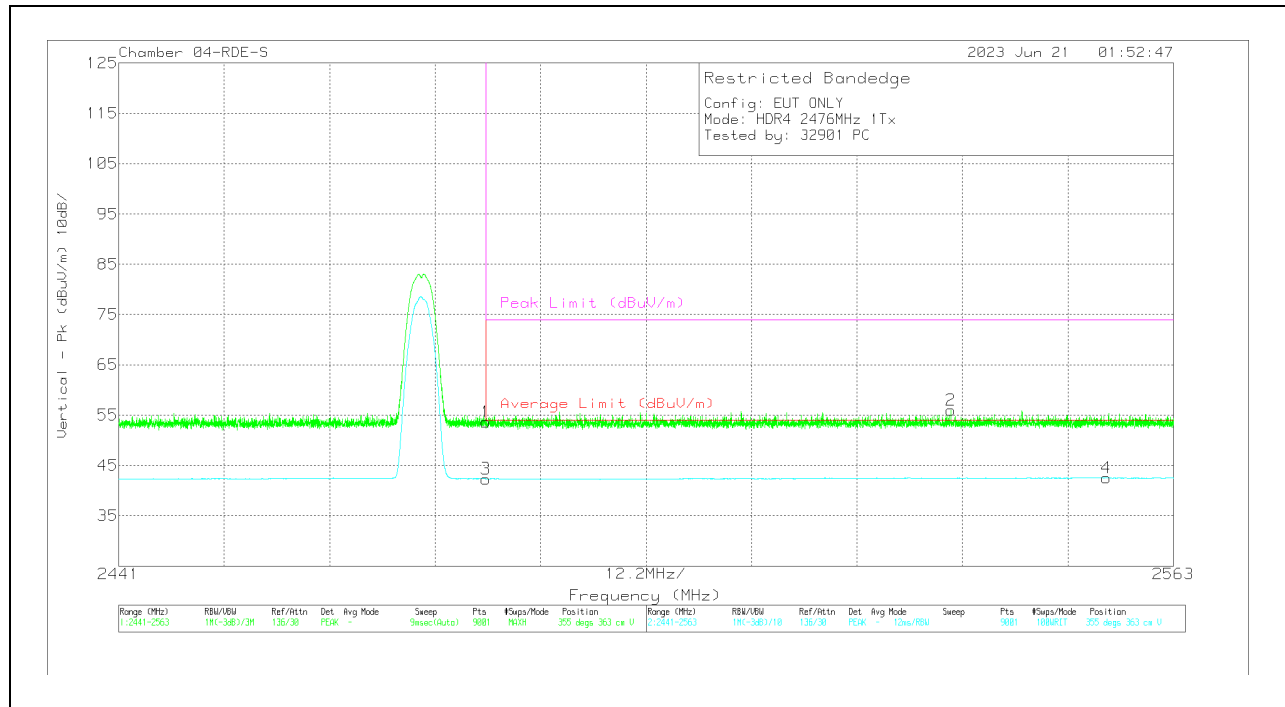
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3MHz	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.53	Pk	32.4	0	-39.96	52.97	-	-	74	-21.03	173	101	H
3	2483.5	50.01	VA1T	32.4	0	-39.96	42.45	54	-11.55	-	-	173	100	H
2	2531.025	64	Pk	32.4	0	-39.87	56.53	-	-	74	-17.47	173	101	H
4	2552.756	50.02	VA1T	32.4	0	-39.84	42.58	54	-11.42	-	-	173	100	H

Pk - Peak detector

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



### VERTICAL RESULT



### Trace Markers

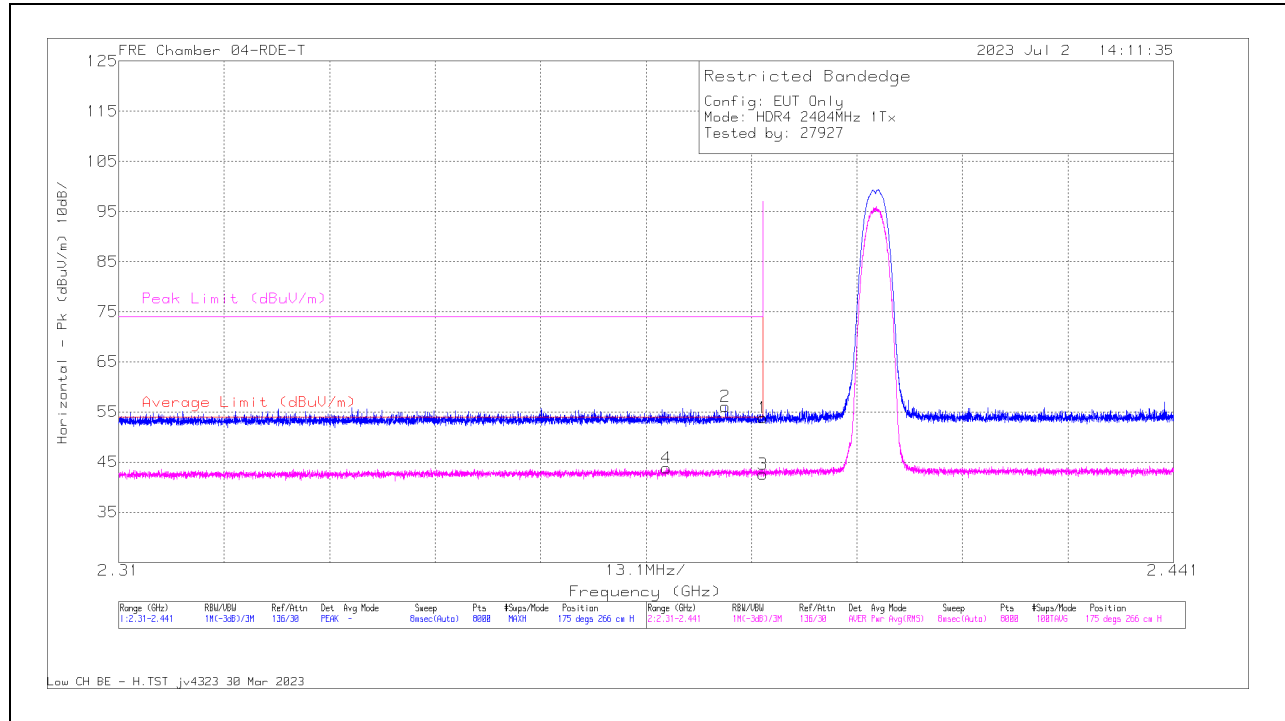
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	61.13	Pk	32.4	0	-39.96	53.57	-	-	74	-20.43	355	363	V
3	2483.5	49.9	VA1T	32.4	0	-39.96	42.34	54	-11.66	-	-	355	363	V
2	2537.275	63.48	Pk	32.4	0	-39.9	55.98	-	-	74	-18.02	355	363	V
4	2555.236	50.01	VA1T	32.4	0	-39.85	42.56	54	-11.44	-	-	355	363	V

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

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

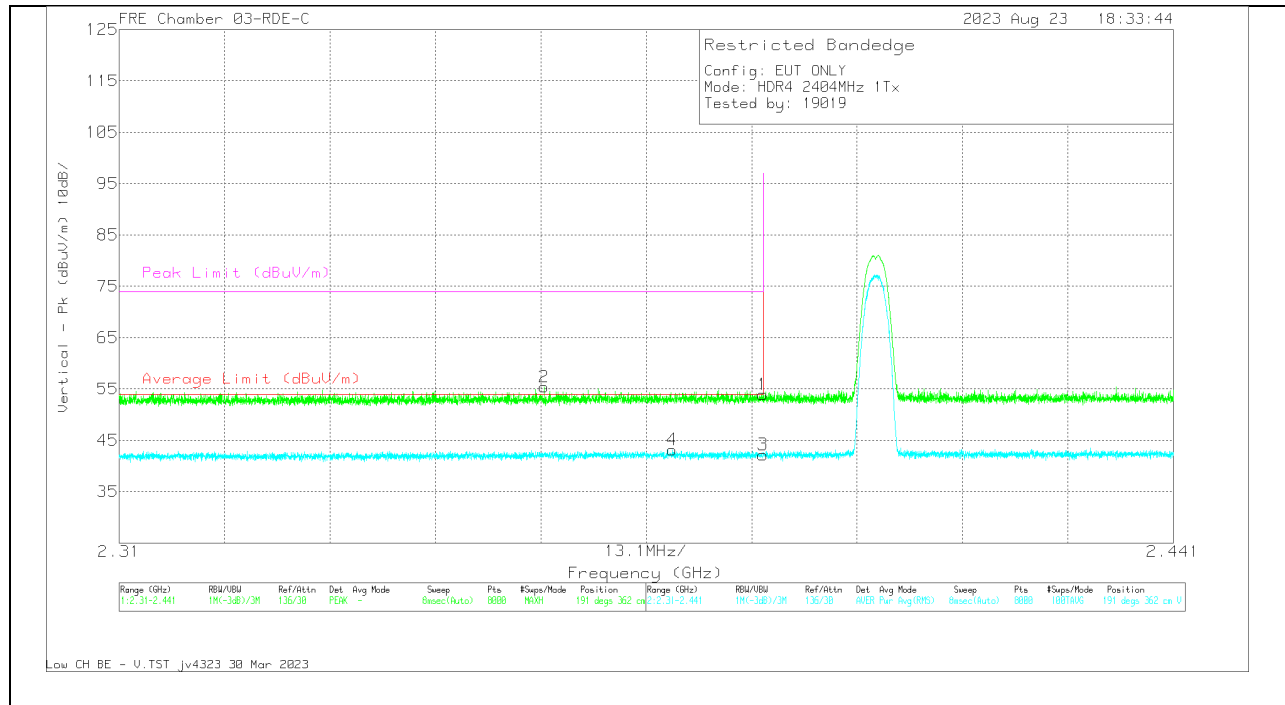


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	59.58	Pk	32.1	-37.89	53.79	-	-	74	-20.21	175	266	H
2	* 2.385334	61.9	Pk	32.1	-37.87	56.13	-	-	74	-17.87	175	266	H
3	* 2.39	48.38	RMS	32.1	-37.89	42.59	54	-11.41	-	-	175	266	H
4	* 2.37803	49.57	RMS	32.1	-37.87	43.8	54	-10.2	-	-	175	266	H

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

### VERTICAL RESULT

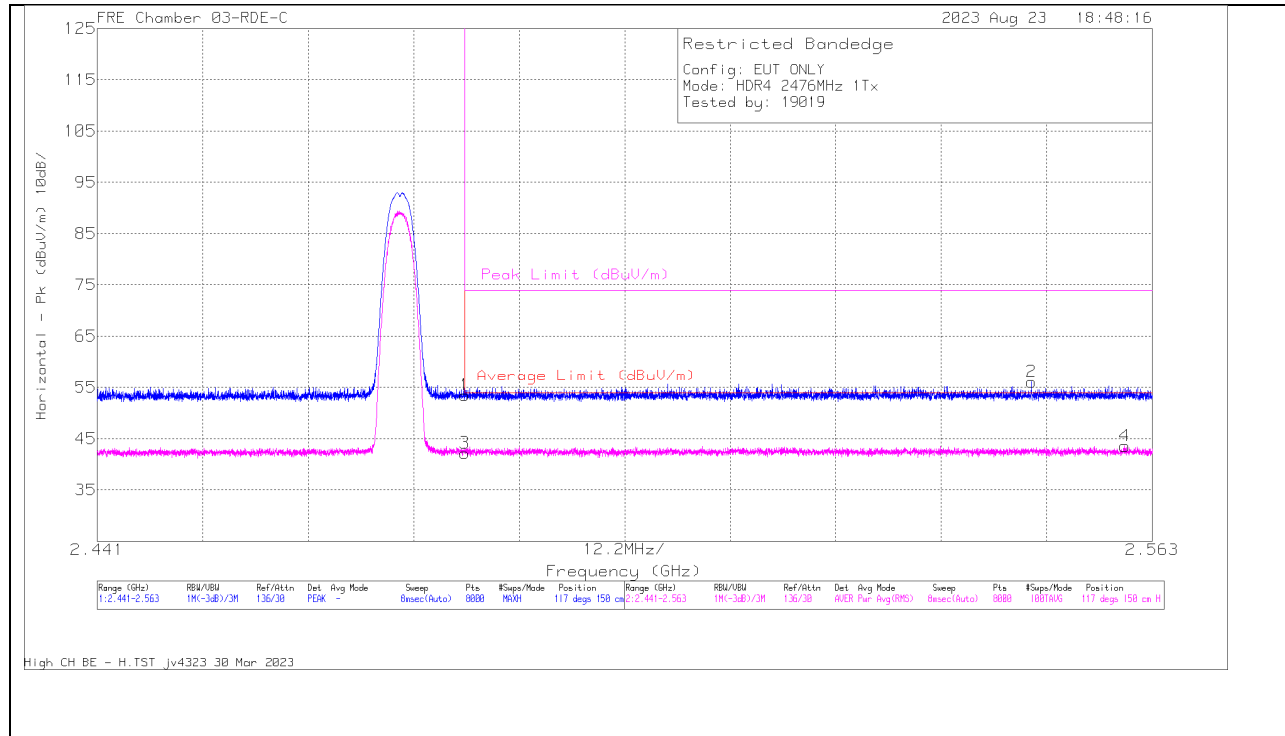


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.6	PK	32.1	-39.8	53.9	-	-	74	-20.1	191	362	V
2	* 2.362816	63.3	PK	32	-39.9	55.4	-	-	74	-18.6	191	362	V
3	* 2.39	49.9	RMS	32.1	-39.8	42.2	54	-11.8	-	-	191	362	V
4	* 2.378734	51.04	RMS	32	-39.9	43.14	54	-10.86	-	-	191	362	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



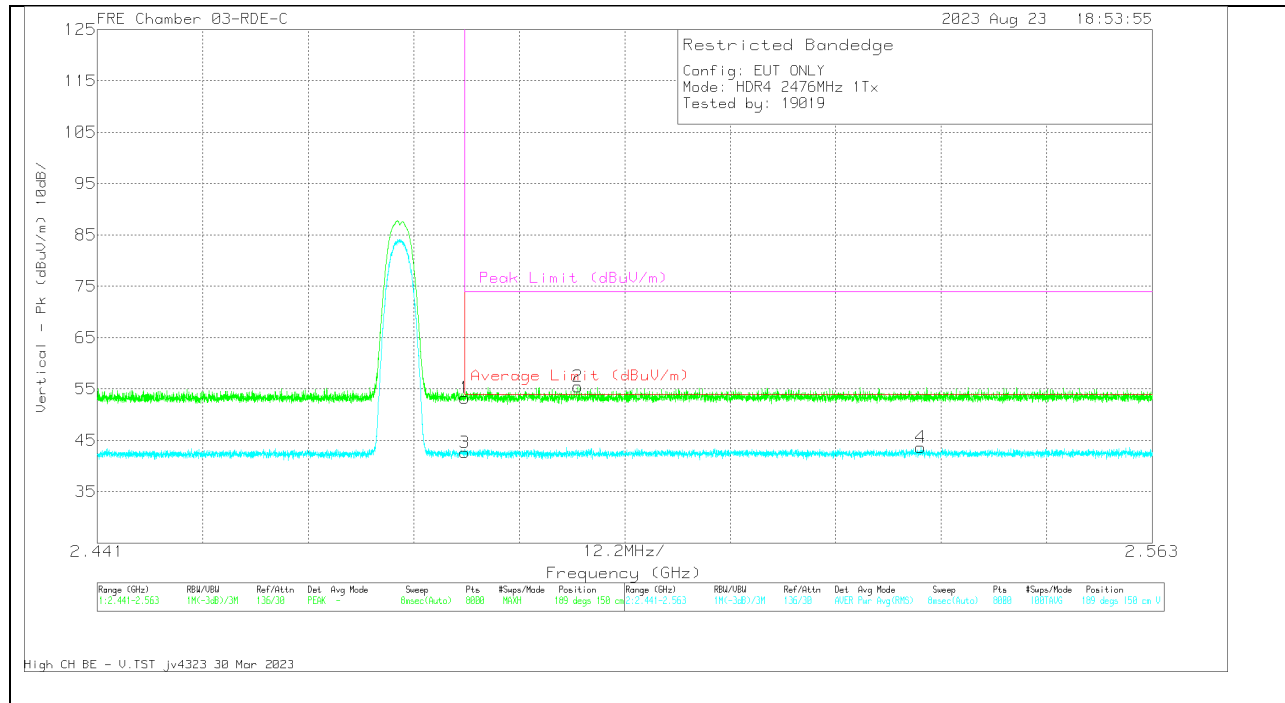
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.9	Pk	32.2	-39.6	53.5	-	-	74	-20.5	117	150	H
3	* 2.4835	49.58	RMS	32.2	-39.6	42.18	54	-11.82	-	-	117	150	H
2	2.54903	63.29	Pk	32.3	-39.5	56.09	-	-	74	-17.91	117	150	H
4	2.559828	50.77	RMS	32.3	-39.5	43.57	54	-10.43	-	-	117	150	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



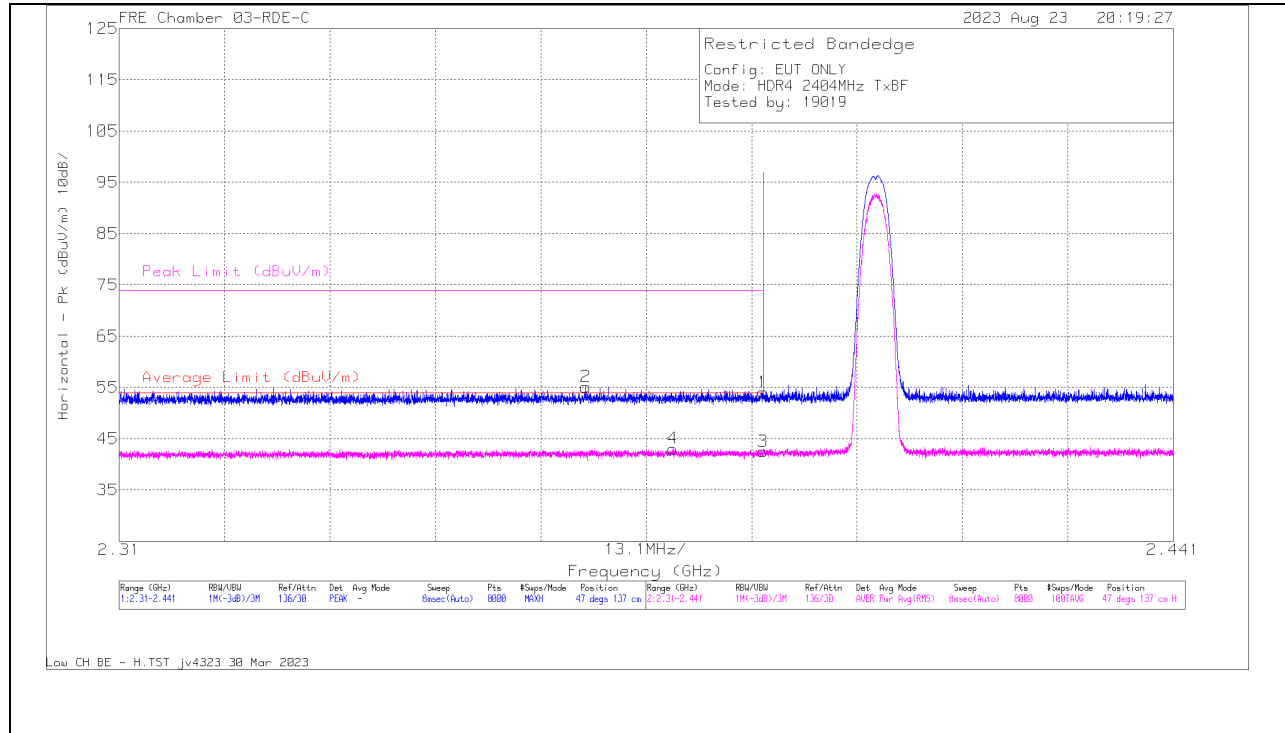
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.68	PK	32.2	-39.6	53.28	-	-	74	-20.72	189	150	V
2	* 2.496578	62.83	PK	32.3	-39.66	55.47	-	-	74	-18.53	189	150	V
3	* 2.4835	50.03	RMS	32.2	-39.6	42.63	54	-11.37	-	-	189	150	V
4	2.536218	50.86	RMS	32.3	-39.52	43.64	54	-10.36	-	-	189	150	V

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

### 10.2.6. LOW POWER HDR TXBF (HDR4)

#### BANDEDGE (LOW CHANNEL)

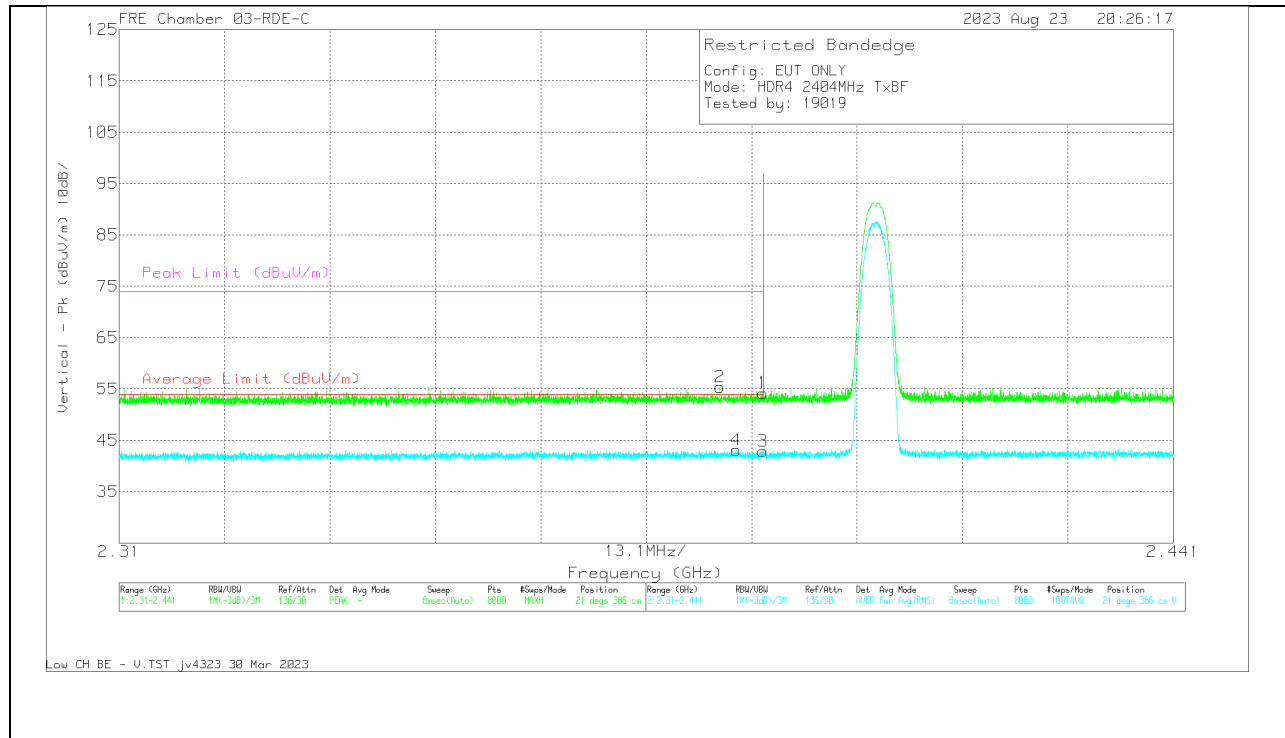
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.71	Pk	32.1	-39.8	54.01	-	-	74	-19.99	47	137	H
2	* 2.367991	63.02	Pk	32	-39.9	55.12	-	-	74	-18.88	47	137	H
3	* 2.39	50.22	RMS	32.1	-39.8	42.52	54	-11.48	-	-	47	137	H
4	* 2.378833	50.96	RMS	32	-39.9	43.06	54	-10.94	-	-	47	137	H

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

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Z26672 ACF (dB) 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	61.89	Pk	32.1	-39.8	54.19	-	-	74	-19.81	21	386	V
2	* 2.384663	63.1	Pk	32.1	-39.83	55.37	-	-	74	-18.63	21	386	V
3	* 2.39	50.59	RMS	32.1	-39.8	42.89	54	-11.11	-	-	21	386	V
4	* 2.38671	50.89	RMS	32.1	-39.9	43.09	54	-10.91	-	-	21	386	V

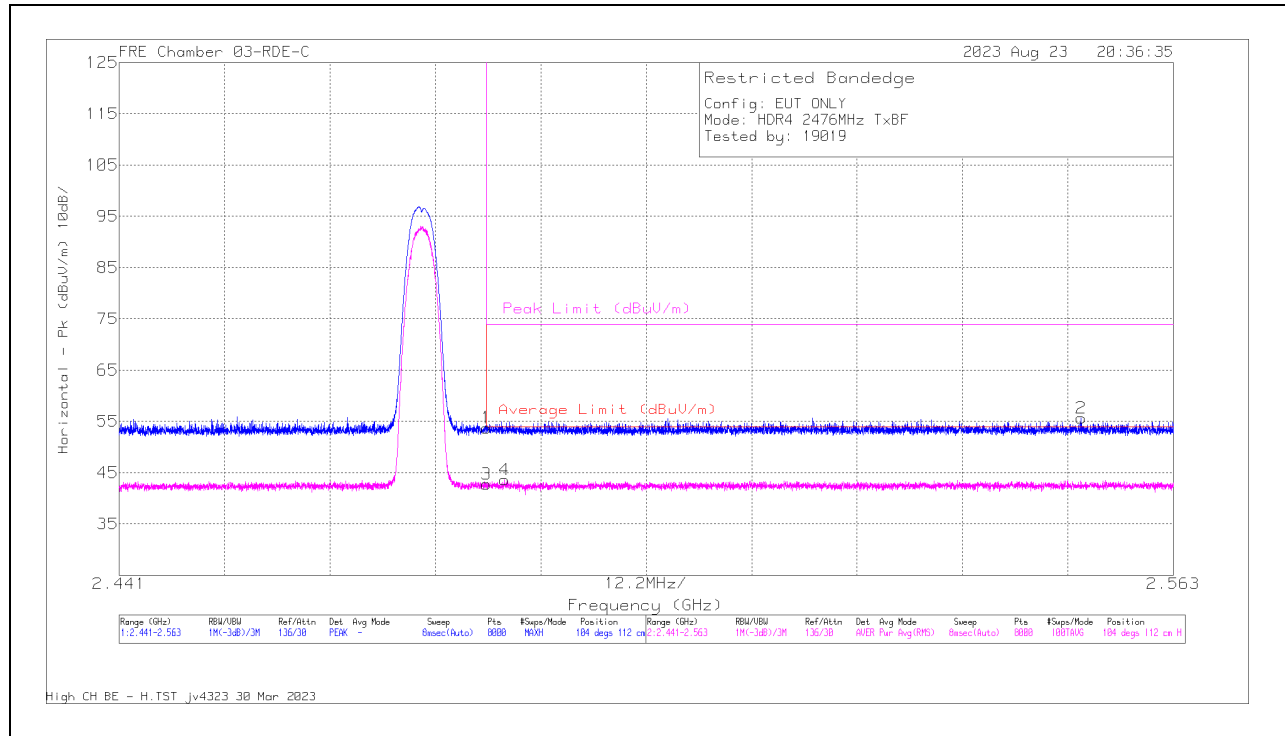
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	226672 ACF (dB) 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	61.11	PK	32.2	-39.6	53.71	-	-	74	-20.29	104	112	H
3	* 2.4835	50.15	RMS	32.2	-39.6	42.75	54	-11.25	-	-	104	112	H
4	* 2.48597	51.05	RMS	32.2	-39.64	43.61	54	-10.39	-	-	104	112	H
2	2.55234	62.84	PK	32.3	-39.5	55.64	-	-	74	-18.36	104	112	H

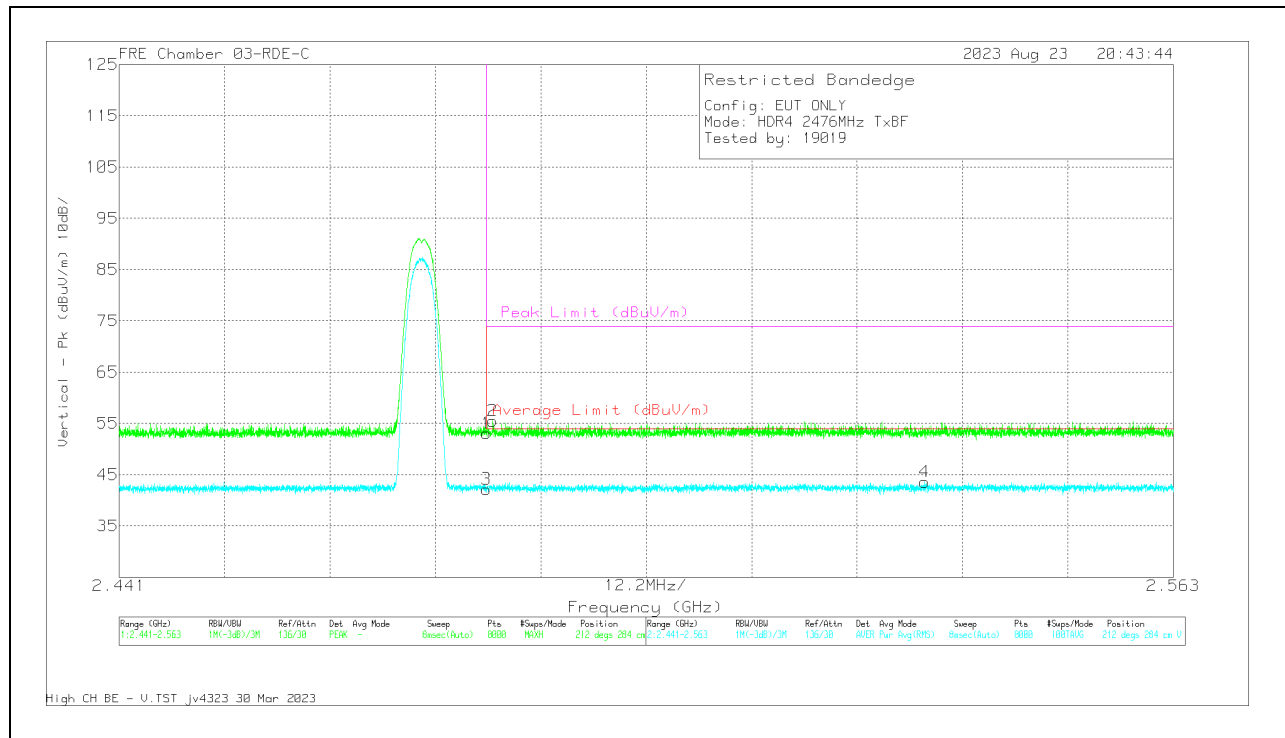
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection



### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	22672 ACF (dB) 3MHz	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	60.45	Pk	32.2	-39.6	53.05	-	-	74	-20.95	212	284	V
2	* 2.484224	62.91	Pk	32.2	-39.62	55.49	-	-	74	-18.51	212	284	V
3	* 2.4835	49.56	RMS	32.2	-39.6	42.16	54	-11.84	-	-	212	284	V
4	2.53422	50.8	RMS	32.3	-39.52	43.58	54	-10.42	-	-	212	284	V

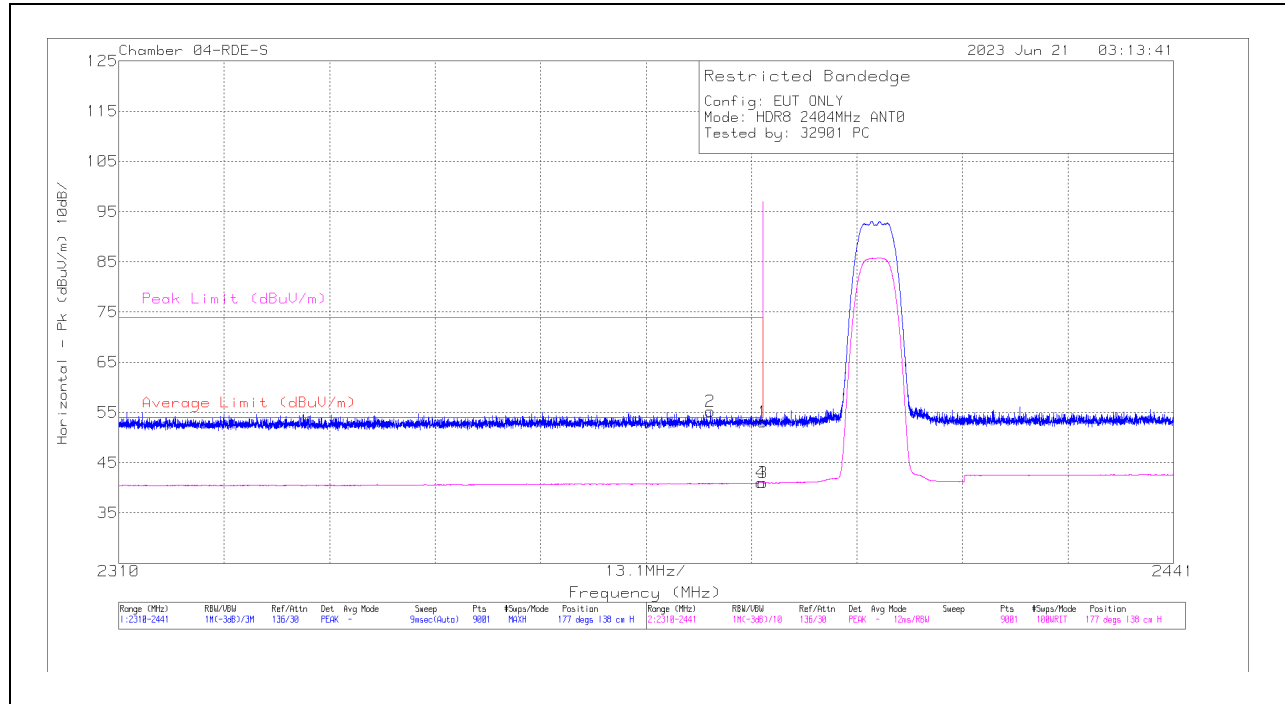
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### 10.2.7. LOW POWER HDR (HDR8)

#### ANT 4

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT

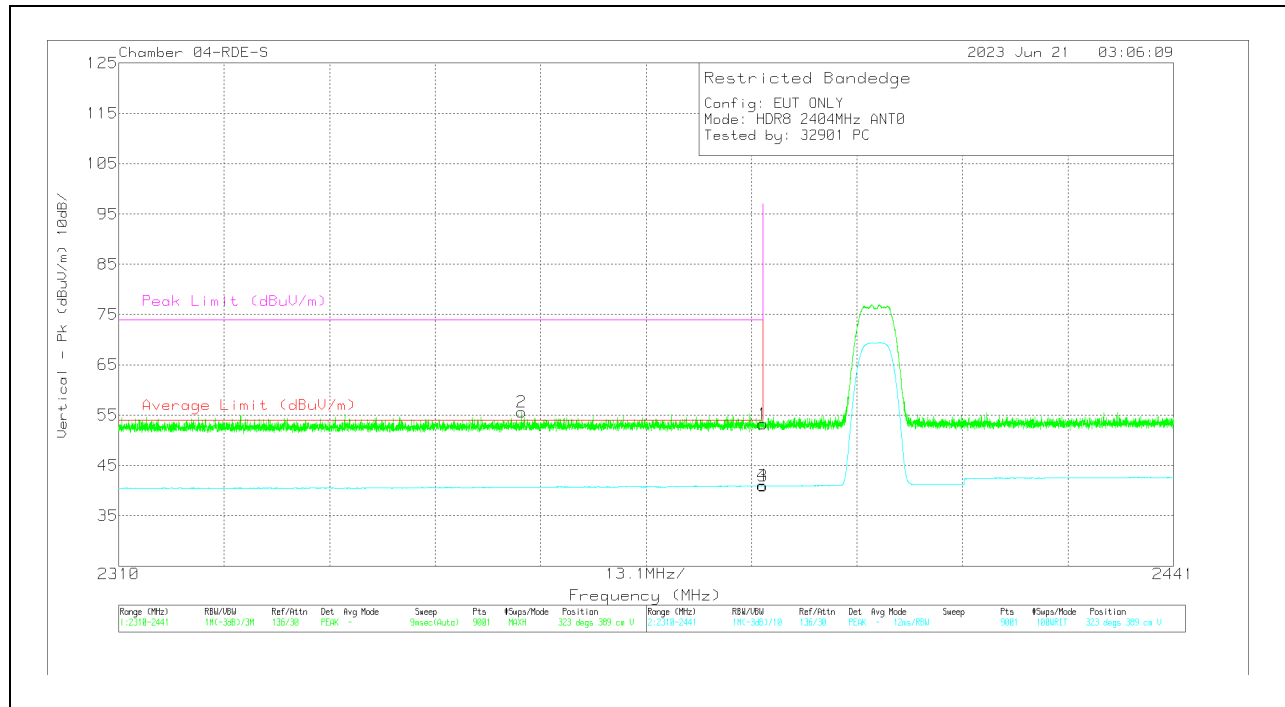


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mH	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2383.493	63.28	Pk	32.2	0	-40.24	55.24	-	-	74	-18.76	177	138	H
4	2389.796	48.92	VA1T	32.3	0	-40.2	41.02	54	-12.98	-	-	177	138	H
1	2390	61.07	Pk	32.3	0	-40.2	53.17	-	-	74	-20.83	177	138	H
3	2390	48.91	VA1T	32.3	0	-40.2	41.01	54	-12.99	-	-	177	138	H

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

### VERTICAL RESULT

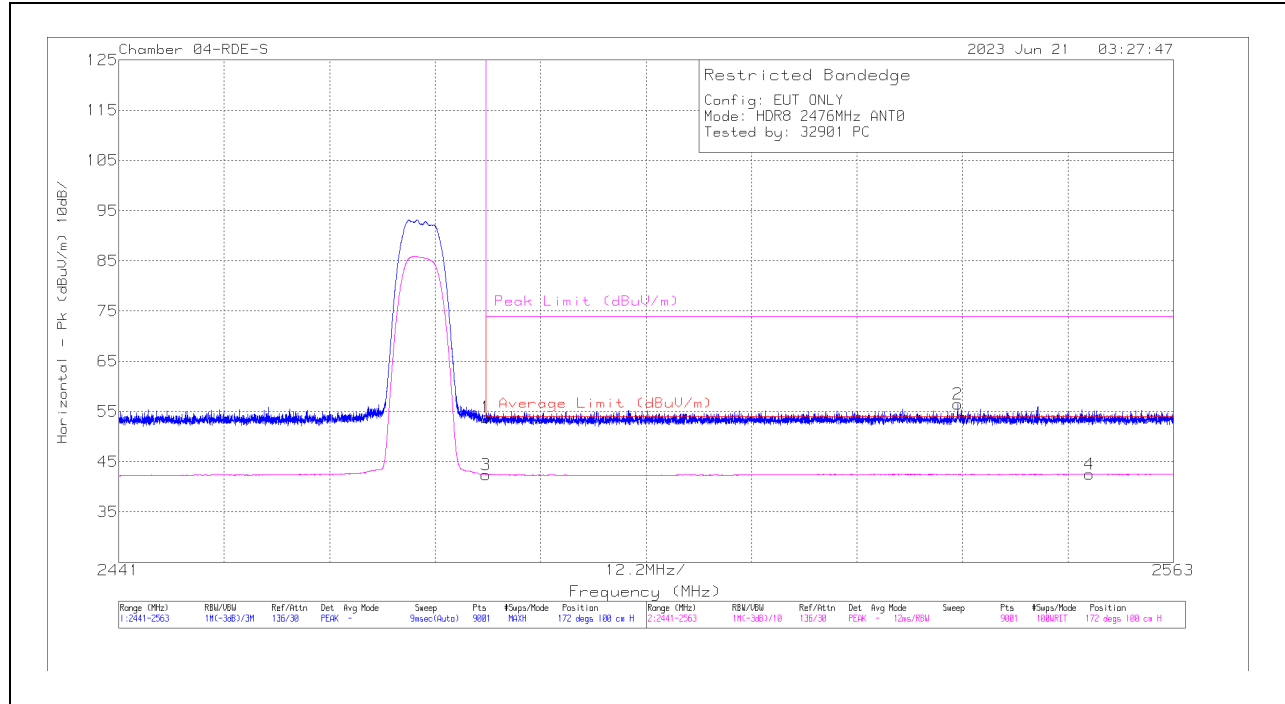


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3MHz	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2360.058	63.68	Pk	32.2	0	-40.3	55.58	-	-	74	-18.42	323	389	V
4	2389.942	48.89	VA1T	32.3	0	-40.2	40.99	54	-13.01	-	-	323	389	V
1	2390	61.12	Pk	32.3	0	-40.2	53.22	-	-	74	-20.78	323	389	V
3	2390	48.85	VA1T	32.3	0	-40.2	40.95	54	-13.05	-	-	323	389	V

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

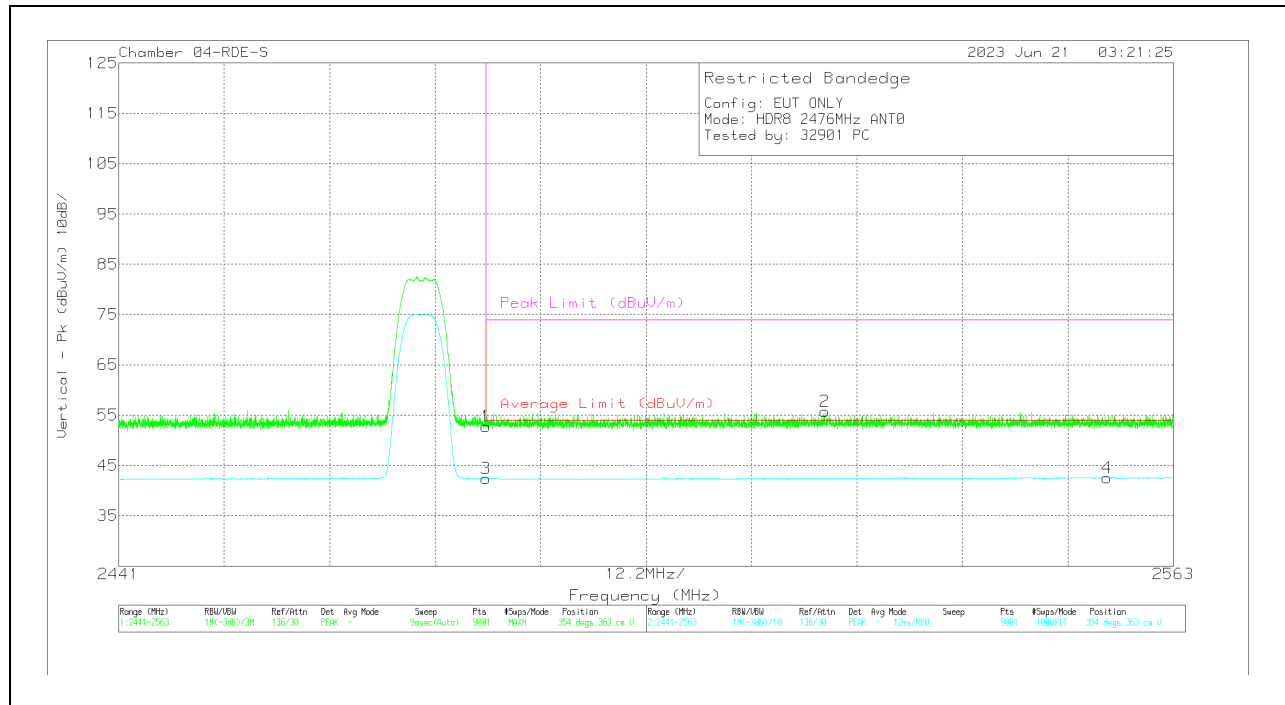


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3MHz	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	61.4	Pk	32.4	0	-39.96	53.84	-	-	74	-20.16	172	100	H
3	2483.5	50.01	VA1T	32.4	0	-39.96	42.45	54	-11.55	-	-	172	100	H
2	2538.034	63.99	Pk	32.4	0	-39.89	56.5	-	-	74	-17.5	172	100	H
4	2553.311	50.01	VA1T	32.4	0	-39.84	42.57	54	-11.43	-	-	172	100	H

Pk - Peak detector

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

### VERTICAL RESULT



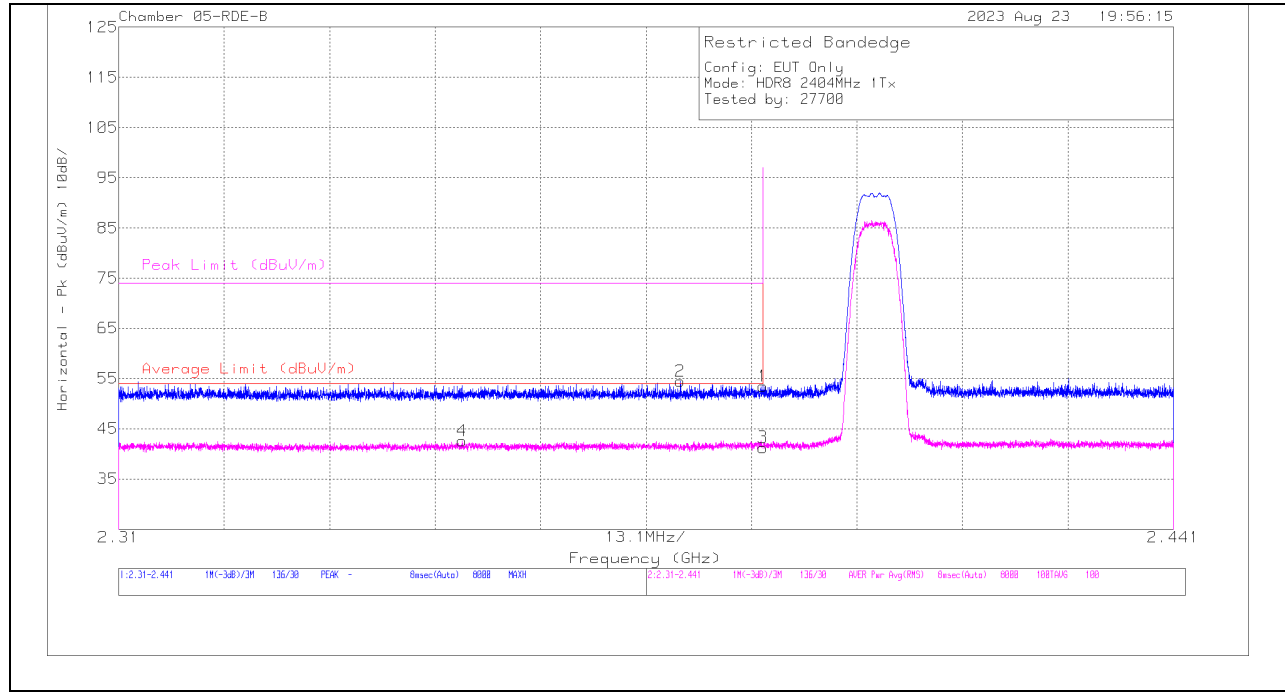
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3MHz	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	60.26	Pk	32.4	0	-39.96	52.7	-	-	74	-21.3	354	363	V
3	2483.5	49.93	VA1T	32.4	0	-39.96	42.37	54	-11.63	-	-	354	363	V
2	2522.661	63.27	Pk	32.4	0	-39.89	55.78	-	-	74	-18.22	354	363	V
4	2555.291	50.01	VA1T	32.4	0	-39.86	42.55	54	-11.45	-	-	354	363	V

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

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

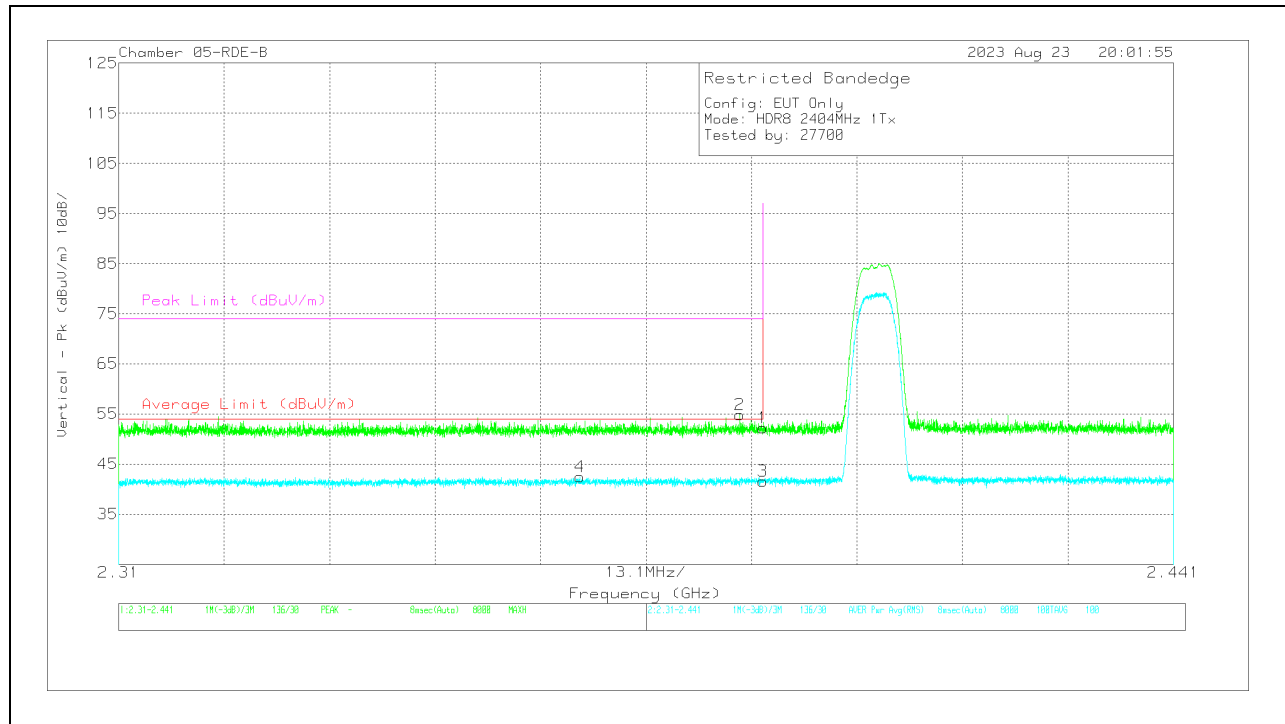
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.352646	51.29	RMS	31.9	0	-40.62	42.57	54	-11.43	-	-	80	171	H
2	2.379766	63.26	Pk	32	0	-40.78	54.48	-	-	74	-19.52	80	171	H
1	2.39	62.04	Pk	32.1	0	-40.64	53.5	-	-	74	-20.5	80	171	H
3	2.39	49.81	RMS	32.1	0	-40.64	41.27	54	-12.73	-	-	80	171	H

Pk - Peak detector  
RMS - RMS detection

### VERTICAL RESULT

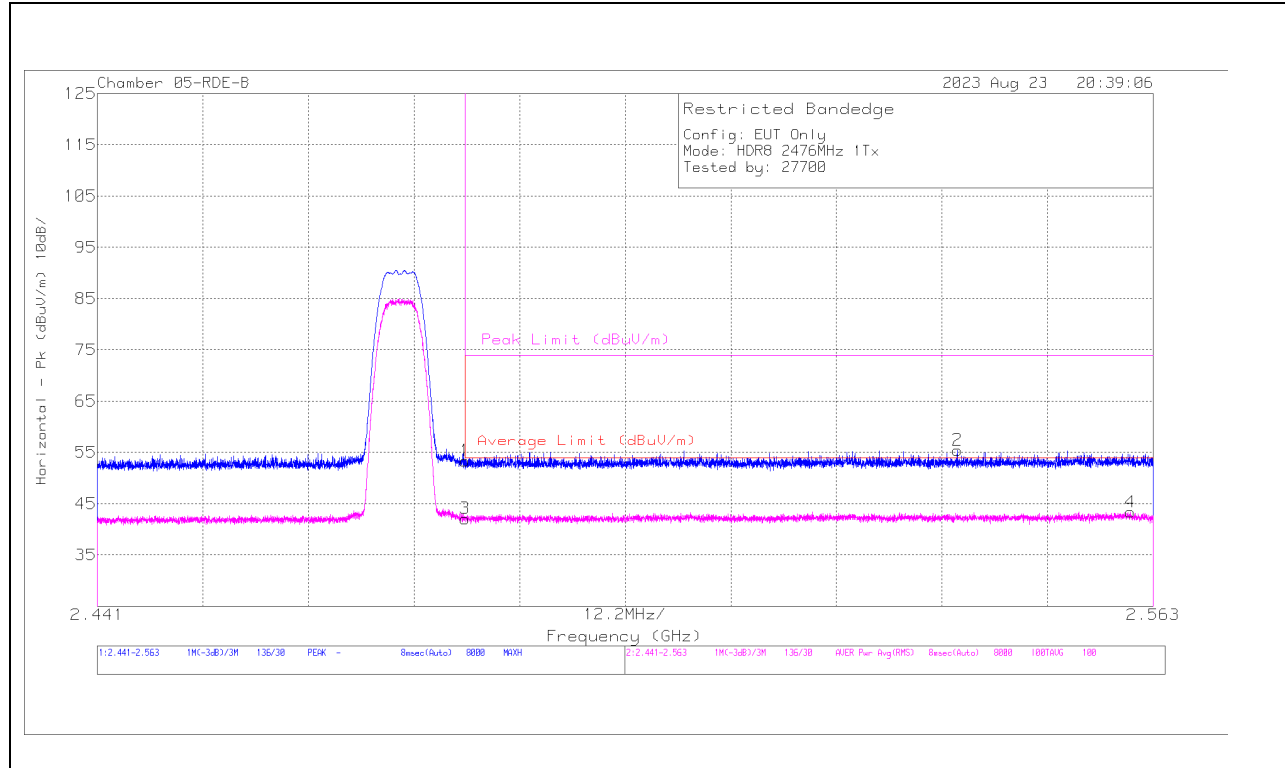


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.367287	51.26	RMS	32	0	-40.76	42.5	54	-11.5	-	-	41	157	V
2	2.387168	63.34	Pk	32.1	0	-40.64	54.8	-	-	74	-19.2	41	157	V
1	2.39	60.73	Pk	32.1	0	-40.64	52.19	-	-	74	-21.81	41	157	V
3	2.39	50.08	RMS	32.1	0	-40.64	41.54	54	-12.46	-	-	41	157	V

Pk - Peak detector  
 RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

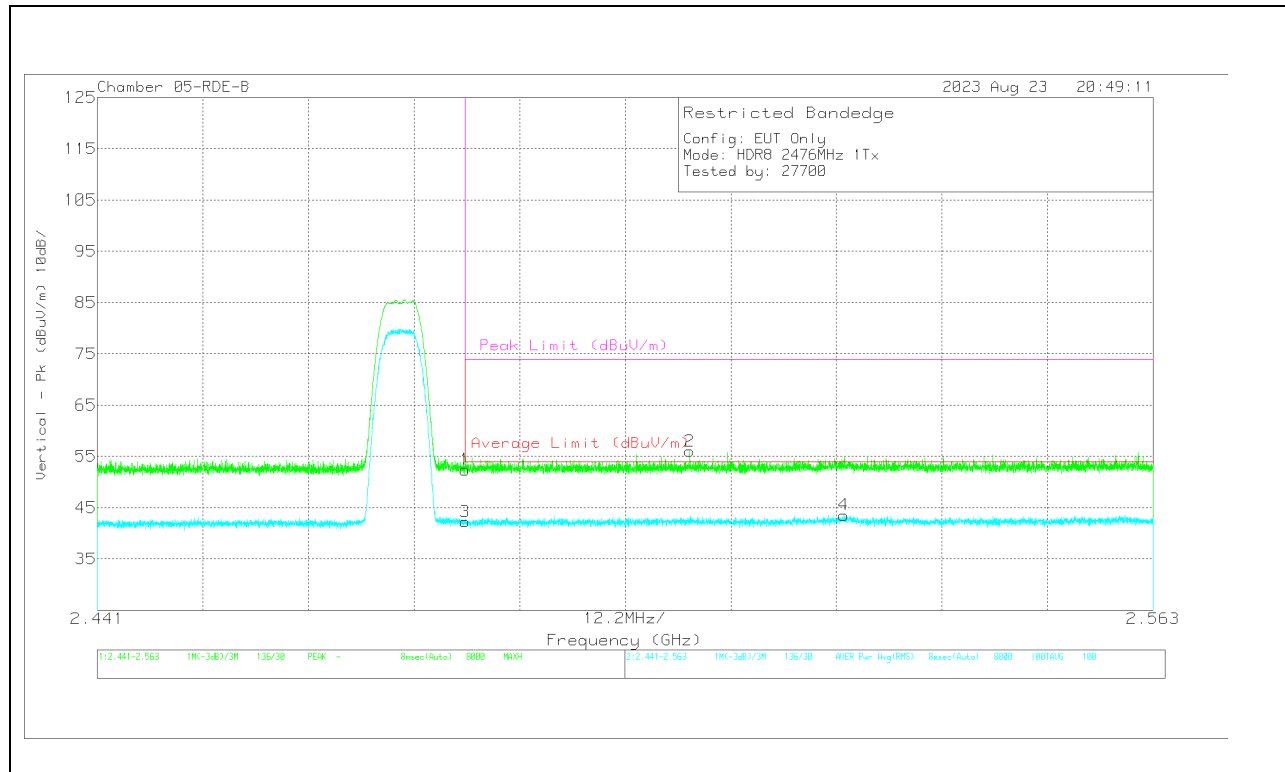


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	61.43	Pk	32.4	0	-40.47	53.36	-	-	74	-20.64	214	201	H
3	2.4835	50.15	RMS	32.4	0	-40.47	42.08	54	-11.92	-	-	214	201	H
2	2.540382	63.22	Pk	32.5	0	-40.29	55.43	-	-	74	-18.57	214	201	H
4	2.560362	50.87	RMS	32.5	0	-40.01	43.36	54	-10.64	-	-	214	201	H

Pk - Peak detector  
 RMS - RMS detection



### VERTICAL RESULT



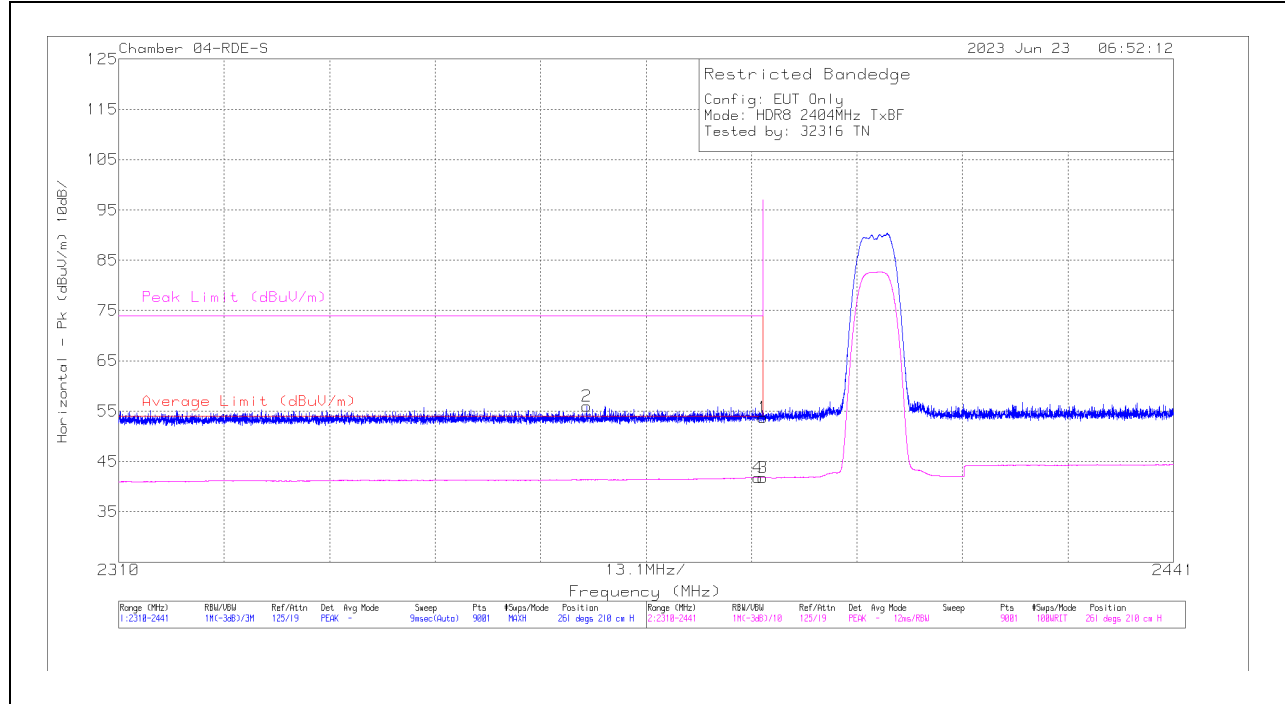
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	80707 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4835	60.48	Pk	32.4	0	-40.47	52.41	-	-	74	-21.59	326	165	V
3	2.4835	50.33	RMS	32.4	0	-40.47	42.26	54	-11.74	-	-	326	165	V
2	2.509451	63.79	Pk	32.5	0	-40.28	56.01	-	-	74	-17.99	326	165	V
4	2.527235	51.2	RMS	32.5	0	-40.15	43.55	54	-10.45	-	-	326	165	V

Pk - Peak detector  
RMS - RMS detection

**10.2.8. LOW POWER HDR TXBF (HDR8)**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



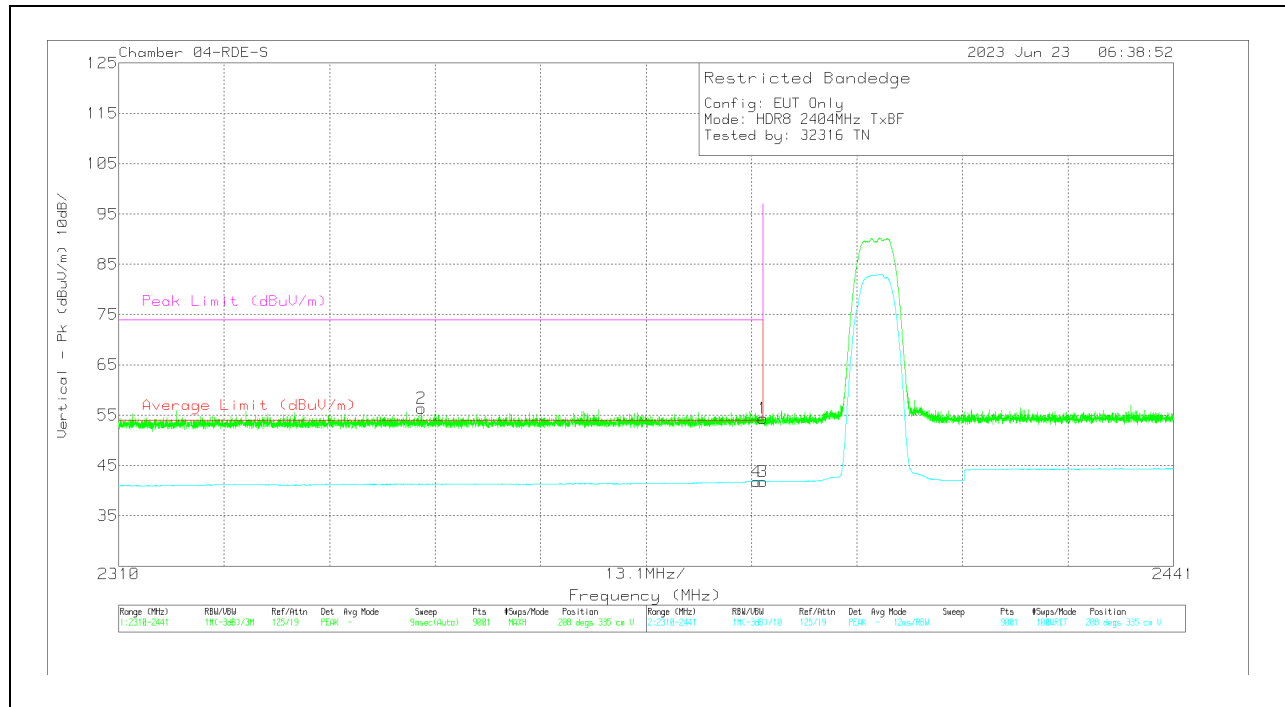
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2368.108	49.61	Pk	32.2	-25.77	56.04	-	-	74	-17.96	261	210	H
4	2389.374	35.09	VA1T	32.3	-25.59	41.8	54	-12.2	-	-	261	210	H
1	2390	47	Pk	32.3	-25.59	53.71	-	-	74	-20.29	261	210	H
3	2390	35.05	VA1T	32.3	-25.59	41.76	54	-12.24	-	-	261	210	H

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

### VERTICAL RESULT



### Trace Markers

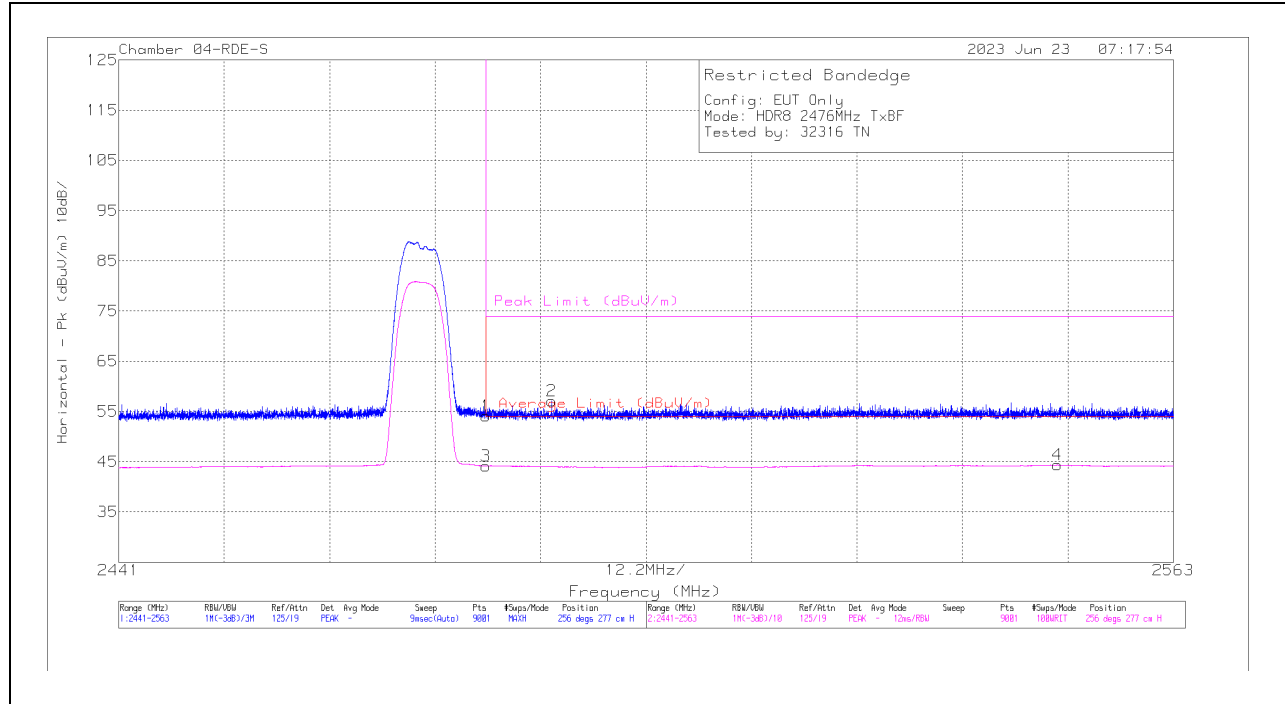
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	2347.613	50.06	Pk	32.1	-25.75	56.41	-	-	74	-17.59	208	335	V
4	2389.243	35.07	VA1T	32.3	-25.59	41.78	54	-12.22	-	-	208	335	V
1	2390	47.61	Pk	32.3	-25.59	54.32	-	-	74	-19.68	208	335	V
3	2390	35.05	VA1T	32.3	-25.59	41.76	54	-12.24	-	-	208	335	V

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



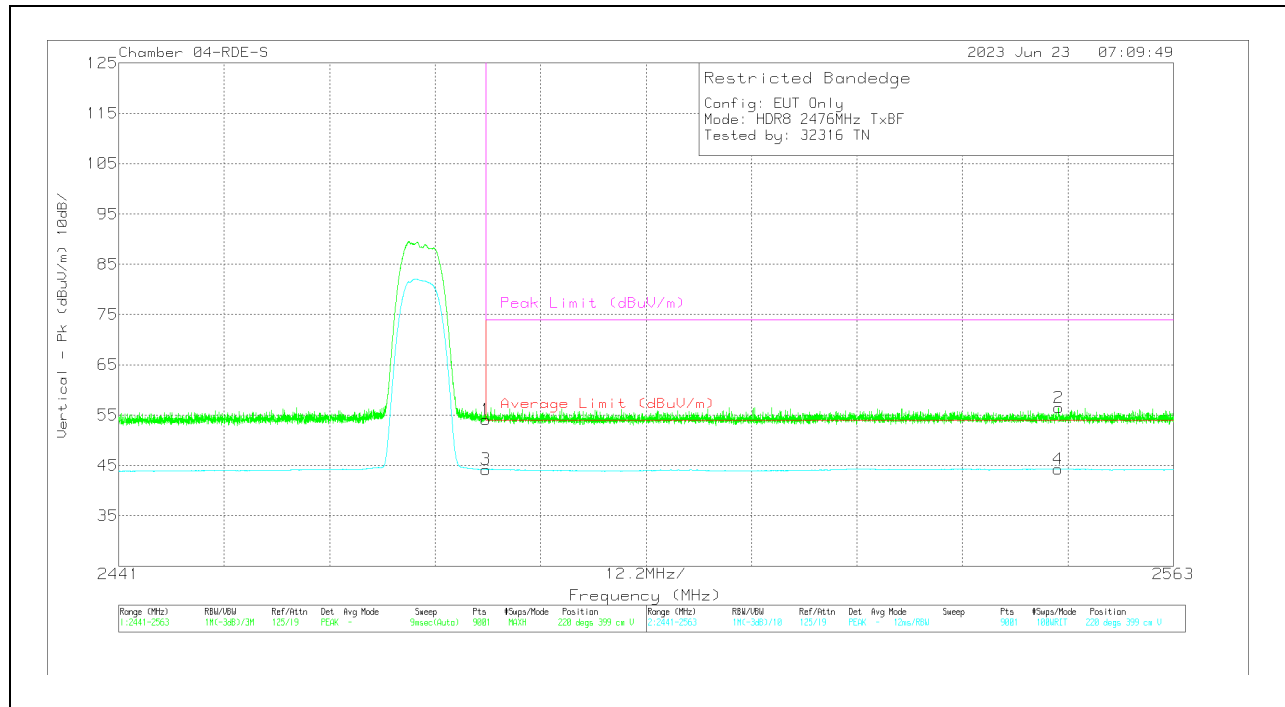
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	47.11	Pk	32.4	-25.35	54.16	-	-	74	-19.84	256	277	H
3	2483.5	37.14	VA1T	32.4	-25.35	44.19	54	-9.81	-	-	256	277	H
2	2491.103	50.18	Pk	32.4	-25.48	57.1	-	-	74	-16.9	256	277	H
4	2549.57	37.27	VA1T	32.4	-25.3	44.37	54	-9.63	-	-	256	277	H

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

### VERTICAL RESULT



### Trace Markers

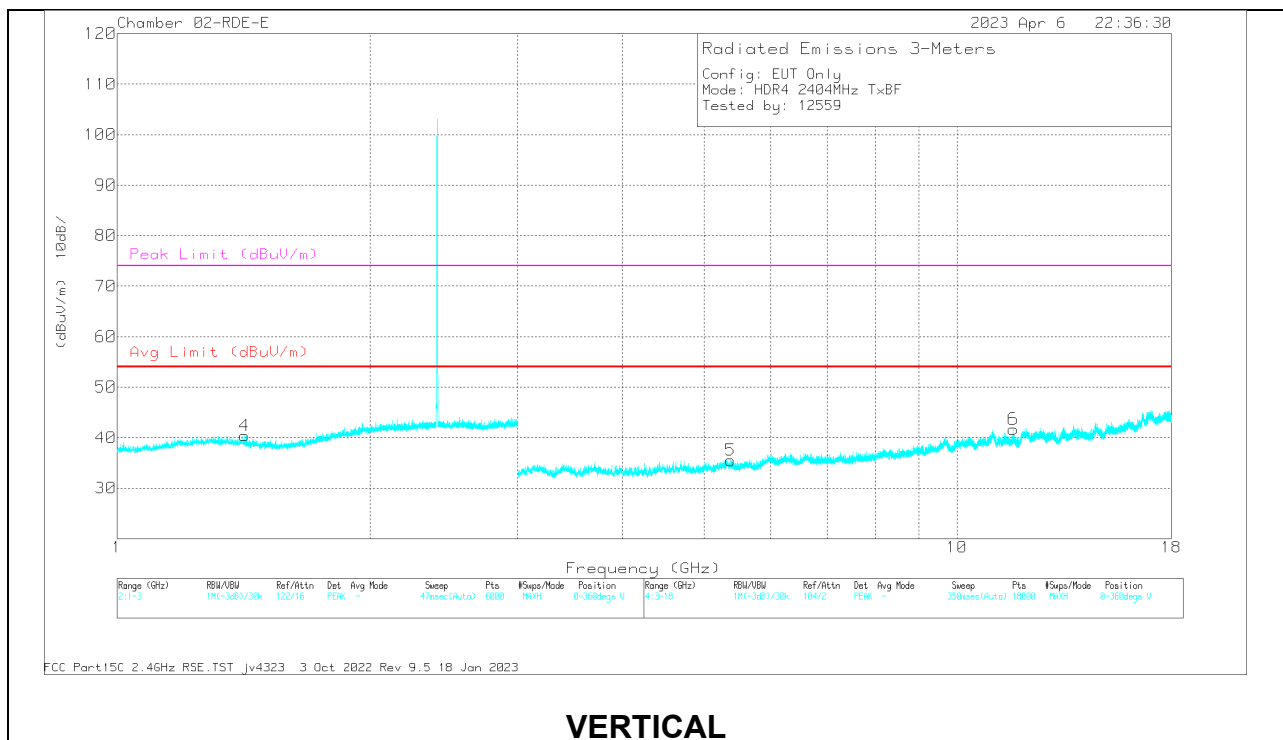
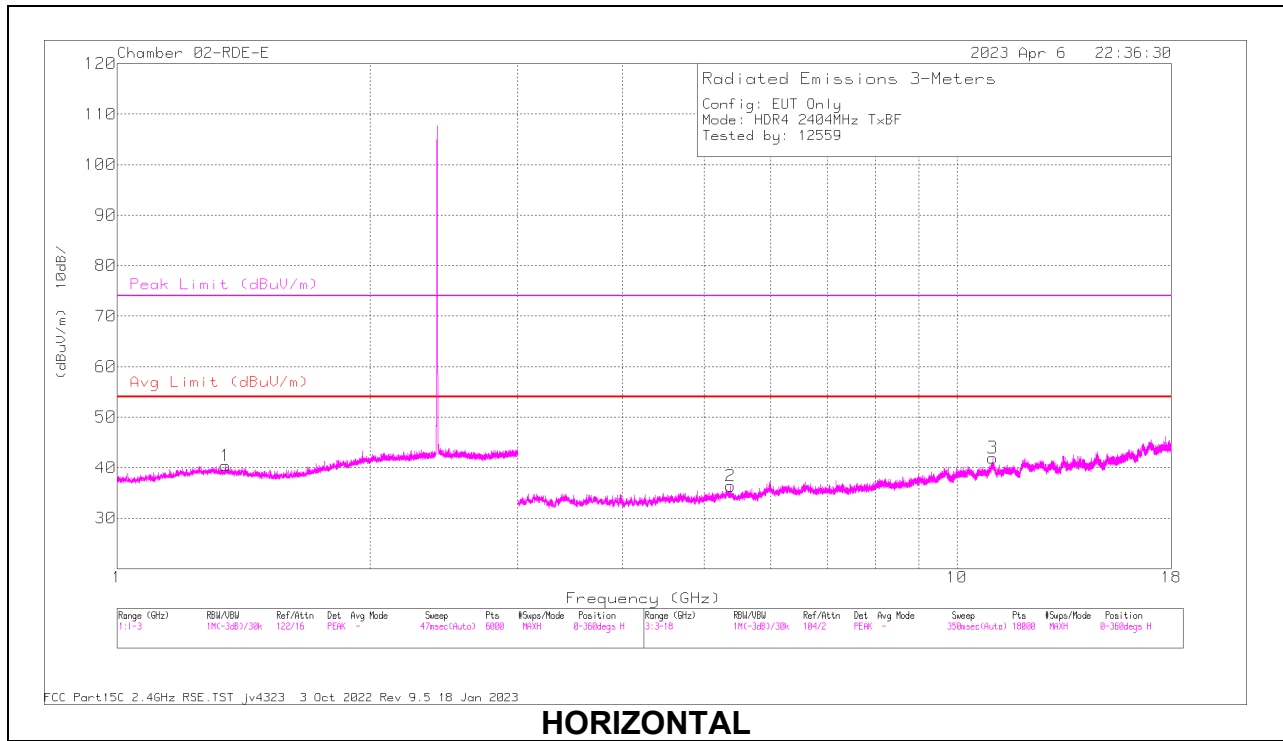
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200784 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2483.5	47.06	Pk	32.4	-25.35	54.11	-	-	74	-19.89	220	399	V
3	2483.5	37.16	VA1T	32.4	-25.35	44.21	54	-9.79	-	-	220	399	V
4	2549.692	37.22	VA1T	32.4	-25.3	44.32	54	-9.68	-	-	220	399	V
2	2549.706	49.41	Pk	32.4	-25.3	56.51	-	-	74	-17.49	220	399	V

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

### 10.2.9. HDR4, HIGH POWER HARMONICS AND SPURIOUS EMISSIONS

#### LOW CHANNEL RESULTS



**RADIATED EMISSIONS**

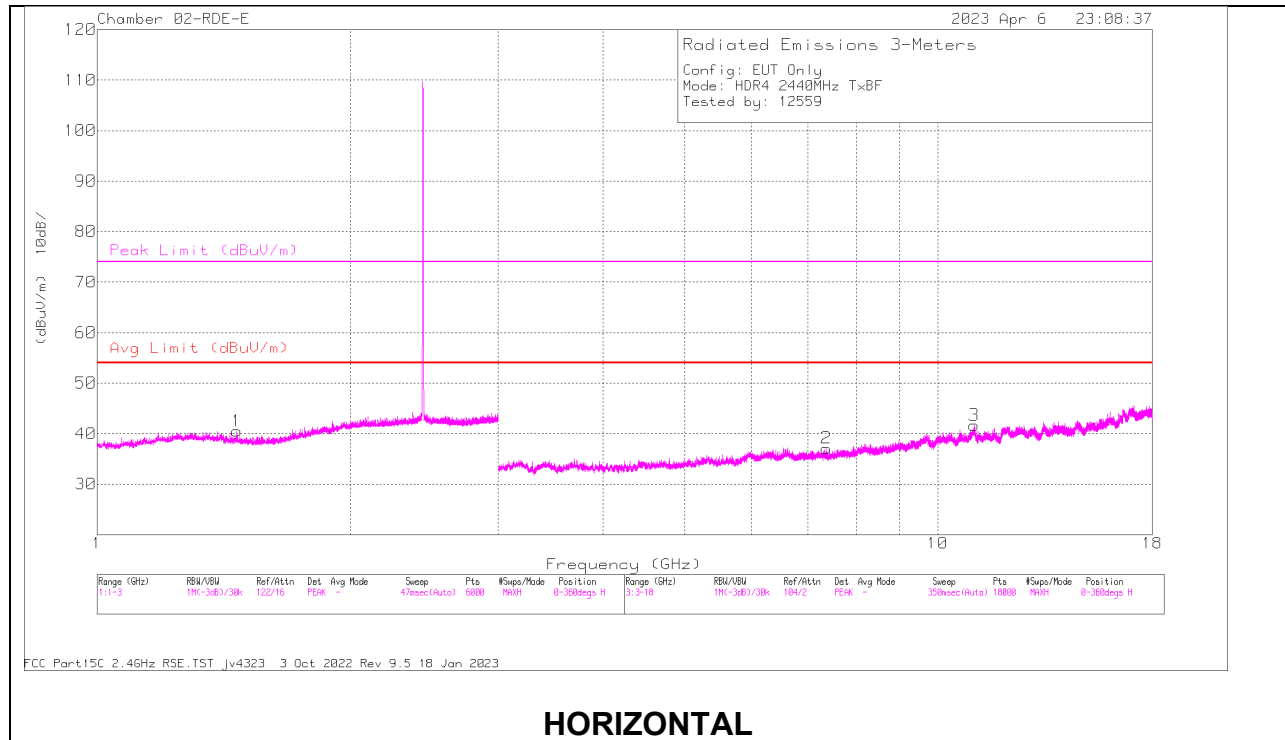
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.345425	59.88	PK2	28.9	-39.51	49.27			74	-24.73	360	101	H
	* 1.34573	48.17	MAv1	28.9	-39.51	37.56	54	-16.44	-	-	360	101	H
4	* 1.419126	60.36	PK2	28.6	-39.28	49.68			74	-24.32	360	101	V
	* 1.417429	48.33	MAv1	28.6	-39.28	37.65	54	-16.35	-	-	360	101	V
2	* 5.370856	57.86	PK2	34.5	-47.12	45.24			74	-28.76	360	200	H
	* 5.371024	46.12	MAv1	34.5	-47.12	33.5	54	-20.5	-	-	360	200	H
3	* 11.029355	54.35	PK2	37.9	-41.2	51.05			74	-22.95	360	200	H
	* 11.029067	42.49	MAv1	37.9	-41.2	39.19	54	-14.81	-	-	360	200	H
5	* 5.373928	57.8	PK2	34.5	-47.08	45.22			74	-28.78	360	101	V
	* 5.374285	46.18	MAv1	34.5	-47.07	33.61	54	-20.39	-	-	360	101	V
6	* 11.669966	54.24	PK2	38.4	-42.36	50.28			74	-23.72	360	200	V
	* 11.670206	42.53	MAv1	38.4	-42.36	38.57	54	-15.43	-	-	360	200	V

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

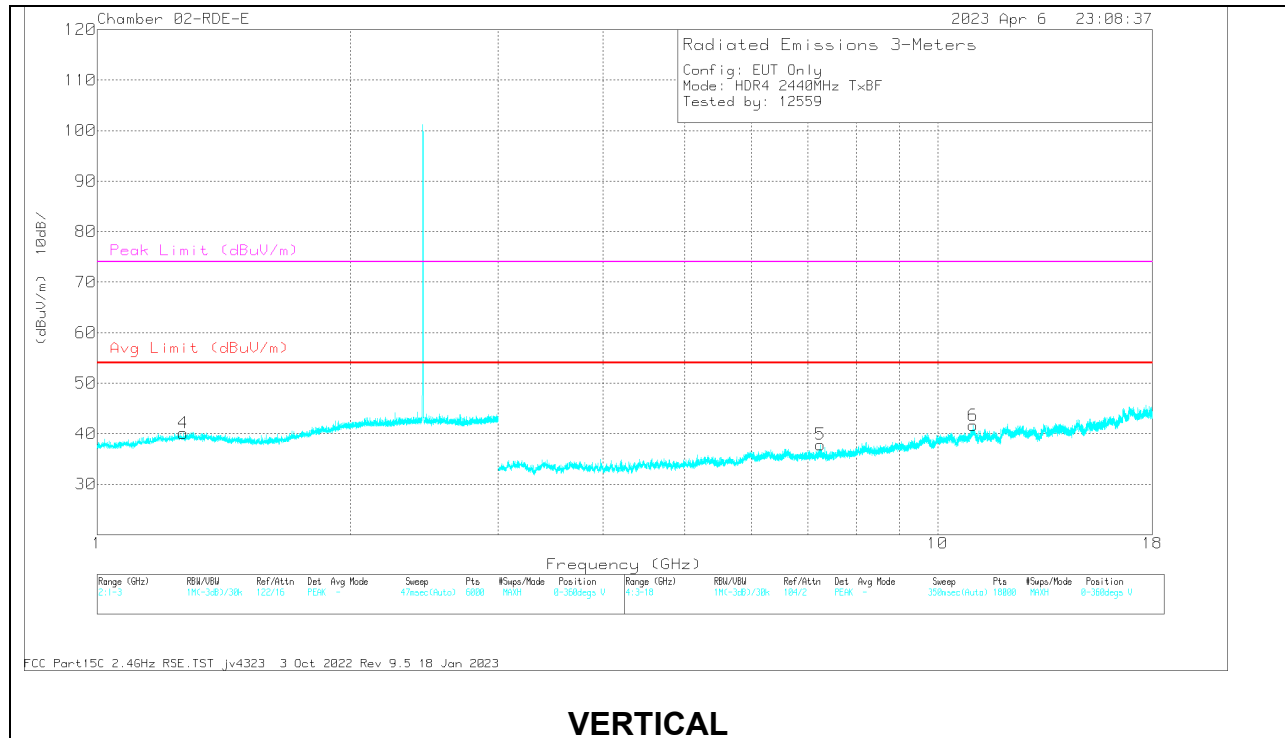
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

### MID CHANNEL RESULTS



### HORIZONTAL



### VERTICAL



**RADIATED EMISSIONS**

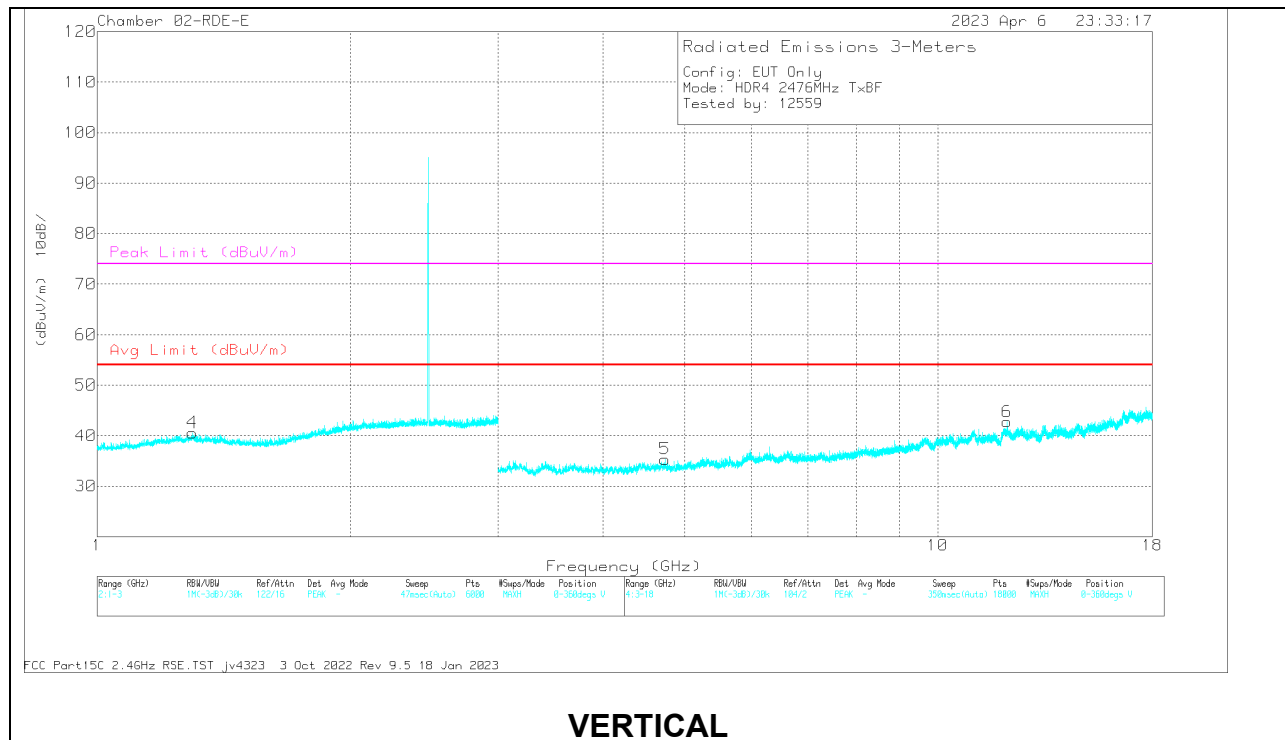
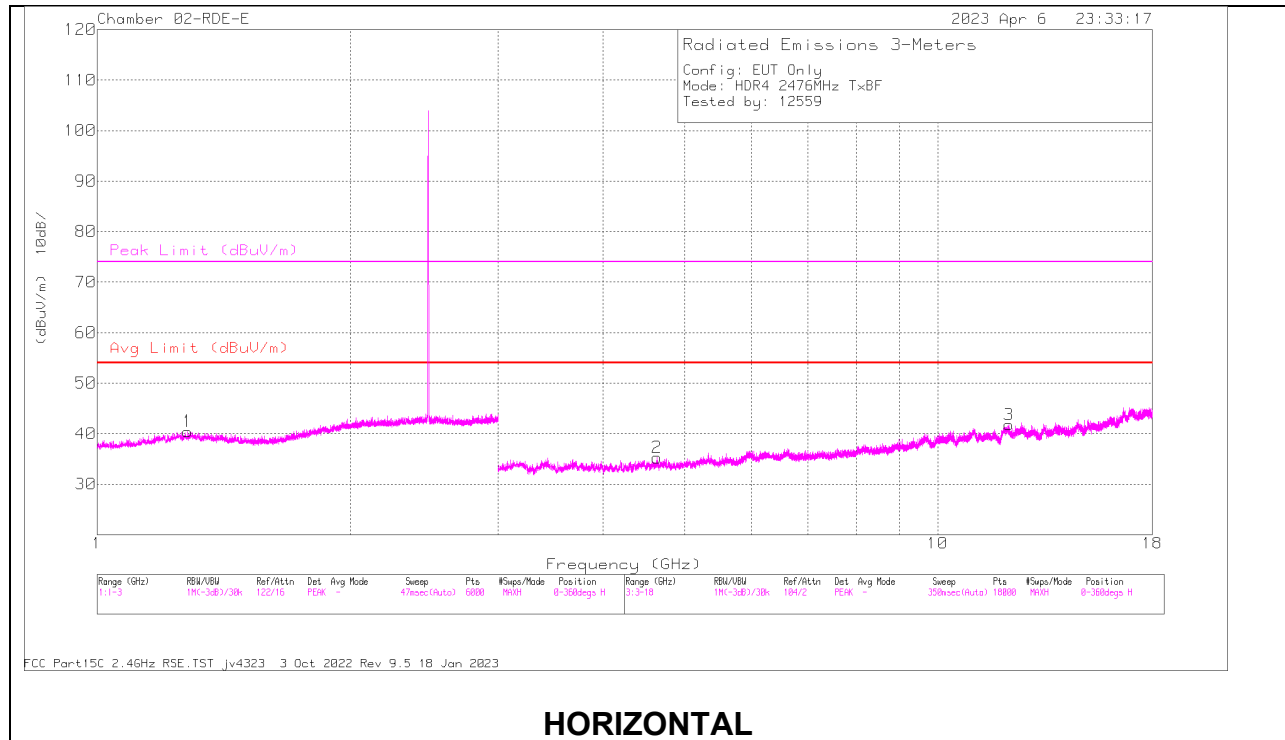
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.466771	59.8	PK2	28.4	-39.16	49.04	-	-	74	-24.96	360	101	H
	* 1.465911	48.2	MAv1	28.4	-39.14	37.46	54	-16.54	-	-	360	101	H
4	* 1.264166	60.77	PK2	29	-39.62	50.15	-	-	74	-23.85	360	101	V
	* 1.264835	48.65	MAv1	29	-39.61	38.04	54	-15.96	-	-	360	101	V
2	* 7.369561	56.03	PK2	35.6	-45.4	46.23	-	-	74	-27.77	360	101	H
	* 7.370327	44.31	MAv1	35.6	-45.38	34.53	54	-19.47	-	-	360	101	H
3	* 11.046586	54.19	PK2	37.9	-41	51.09	-	-	74	-22.91	360	200	H
	* 11.047495	42.38	MAv1	37.9	-40.98	39.3	54	-14.7	-	-	360	200	H
5	* 7.253457	55.26	PK2	35.6	-44.37	46.49	-	-	74	-27.51	360	200	V
	* 7.25352	43.51	MAv1	35.6	-44.36	34.75	54	-19.25	-	-	360	200	V
6	* 11.025711	54.22	PK2	37.9	-41.2	50.92	-	-	74	-23.08	360	101	V
	* 11.023045	42.37	MAv1	37.9	-41.22	39.05	54	-14.95	-	-	360	101	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

### HIGH CHANNEL RESULTS



## RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	206807 ACF (dB) 3mH	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.28175	60.34	PK2	29.1	-39.63	49.81			74	-24.19	360	198	H
	* 1.282082	48.92	MAv1	29.1	-39.63	38.39	54	-15.61	-	-	360	198	H
4	* 1.297013	60.63	PK2	29.1	-39.59	50.14			74	-23.86	360	101	V
	* 1.297803	49.07	MAv1	29.1	-39.59	38.58	54	-15.42	-	-	360	101	V
2	* 4.631445	56.96	PK2	34.1	-46.48	44.58			74	-29.42	360	198	H
	* 4.634334	45.18	MAv1	34.1	-46.45	32.83	54	-21.17	-	-	360	198	H
3	* 12.154627	54.71	PK2	39	-42.86	50.85			74	-23.15	360	101	H
	* 12.155531	43.33	MAv1	39	-42.87	39.46	54	-14.54	-	-	360	101	H
5	* 4.73825	58.22	PK2	34	-47.04	45.18			74	-28.82	360	101	V
	* 4.737861	46.07	MAv1	34	-47.03	33.04	54	-20.96	-	-	360	101	V
6	* 12.094059	54.39	PK2	38.9	-42.33	50.96			74	-23.04	360	101	V
	* 12.093991	43.11	MAv1	38.9	-42.33	39.68	54	-14.32	-	-	360	101	V

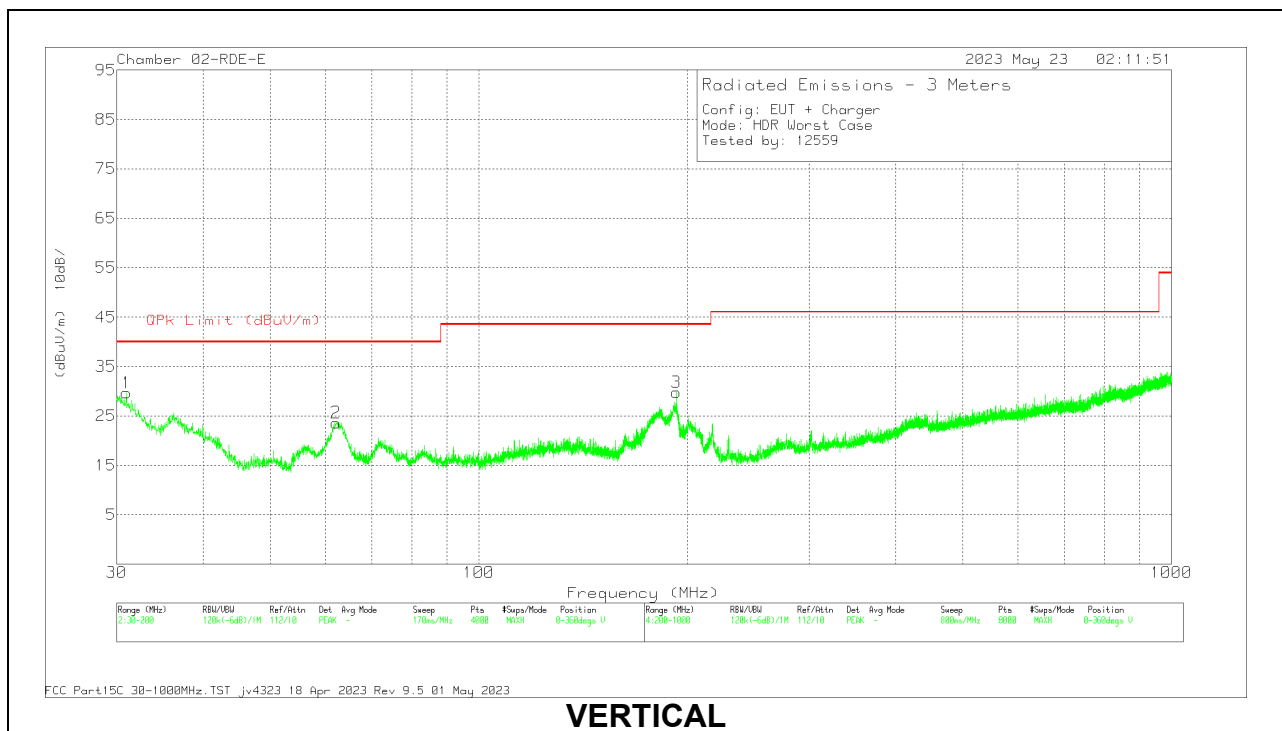
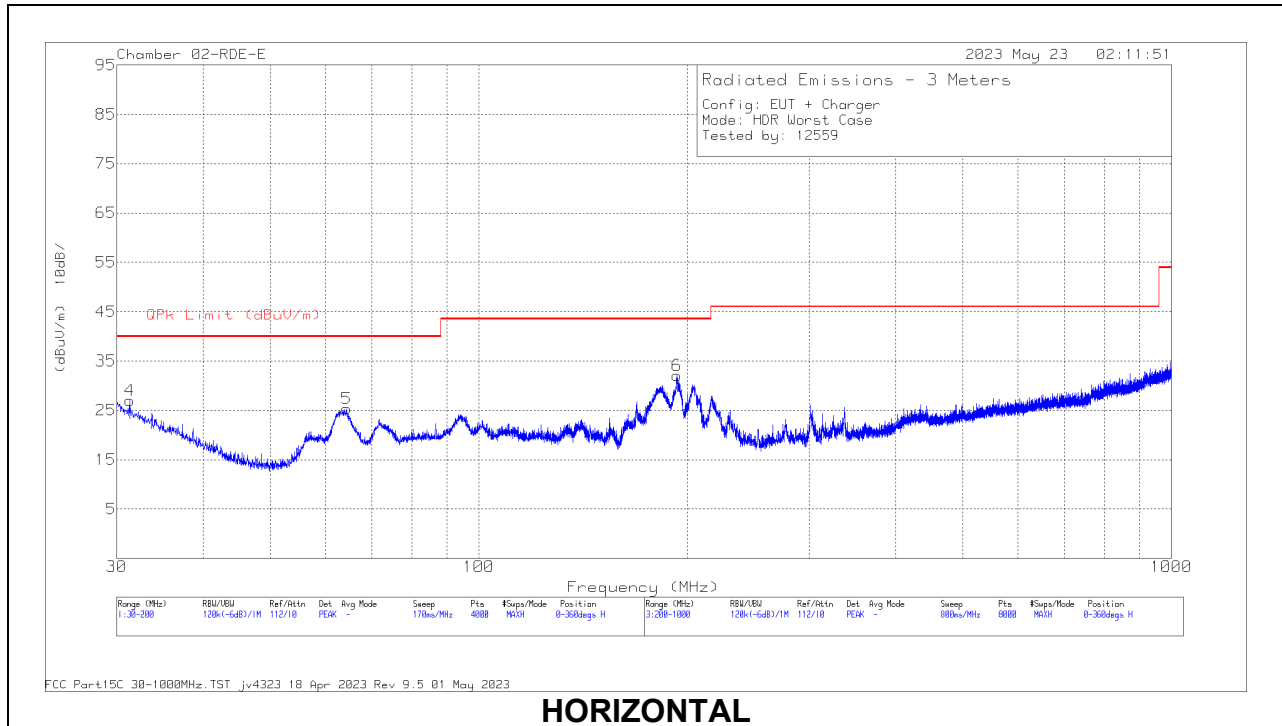
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

### 10.3. WORST CASE BELOW 1 GHz

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



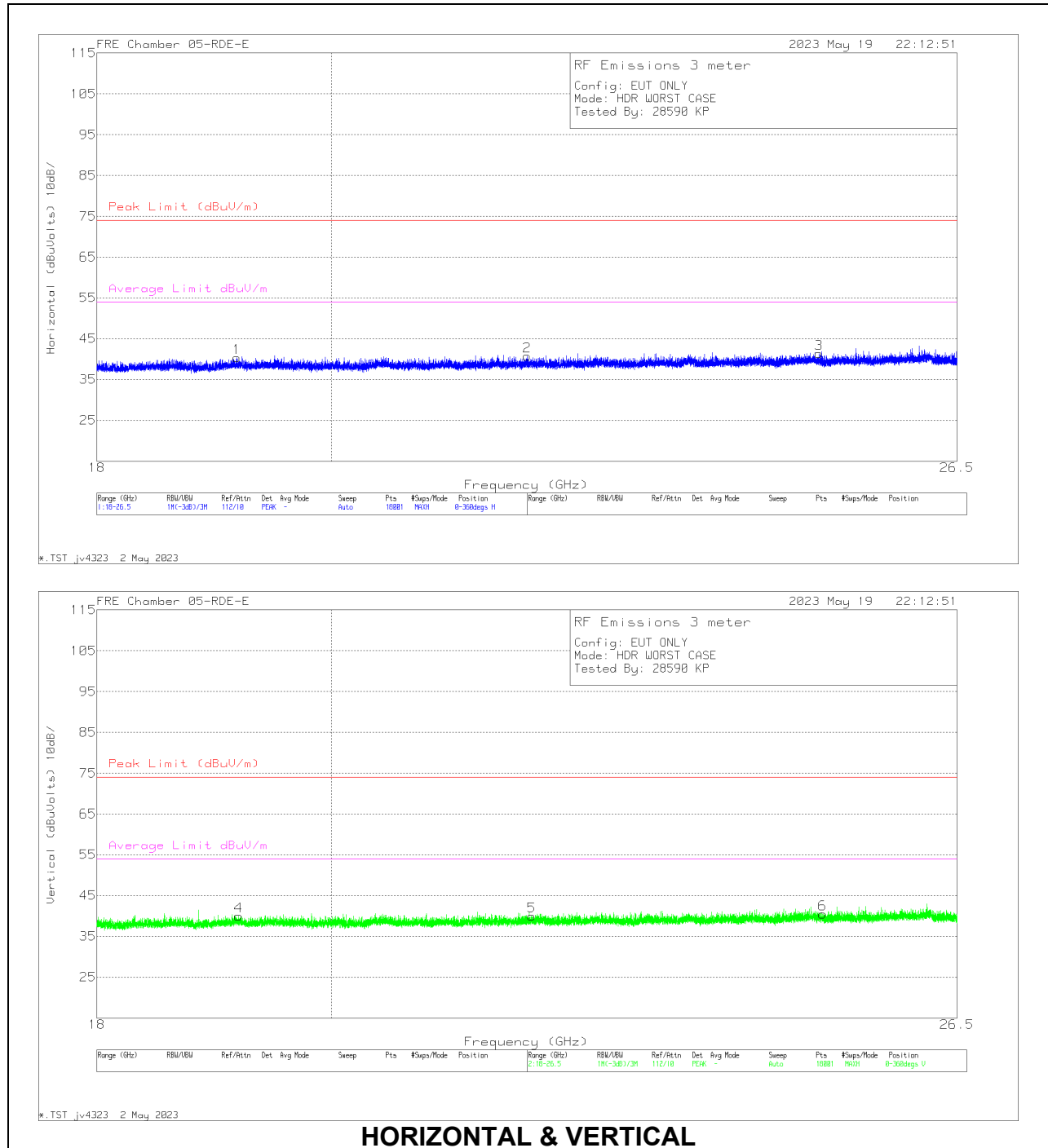
## Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	230635 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.9778	35.16	Pk	26.1	-31.6	29.66	40	-10.34	0-360	101	V
4	31.3178	32.68	Pk	25.9	-31.6	26.98	40	-13.02	0-360	300	H
2	62.1383	41.13	Pk	13.6	-31.1	23.63	40	-16.37	0-360	101	V
5	64.4339	42.59	Pk	13.8	-31.1	25.29	40	-14.71	0-360	200	H
3	192.732	42.14	Pk	17.7	-30	29.84	43.52	-13.68	0-360	101	V
6	193.242	44.39	Pk	17.7	-30	32.09	43.52	-11.43	0-360	100	H

Pk - Peak detector

### 10.4. WORST CASE 18-26 GHz

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



**18 – 26GHz DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn ACF (dB/m)	amp/cbl (dB)	CBL/S WITCH	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.169222	56.55	Pk	32.4	-61.8	13.2	40.35	74	-33.65	54	-13.65	0-360	199	H
4	19.184805	56.21	Pk	32.4	-61.8	13.2	40.01	74	-33.99	54	-13.99	0-360	200	V
2	21.841526	56.3	Pk	32.9	-62.6	14.1	40.7	74	-33.3	54	-13.3	0-360	101	H
5	21.888276	55.5	Pk	32.9	-62.5	14.1	40	74	-34	54	-14.0	0-360	101	V
3	24.907191	54.08	Pk	33.6	-61.4	15.1	41.38	74	-32.62	54	-12.62	0-360	199	H
6	24.94733	53.25	Pk	33.6	-61.5	15.1	40.45	74	-33.55	54	-13.55	0-360	200	V

Pk - Peak detector

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

\*Decreases with the logarithm of the frequency.

### TEST PROCEDURE

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

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

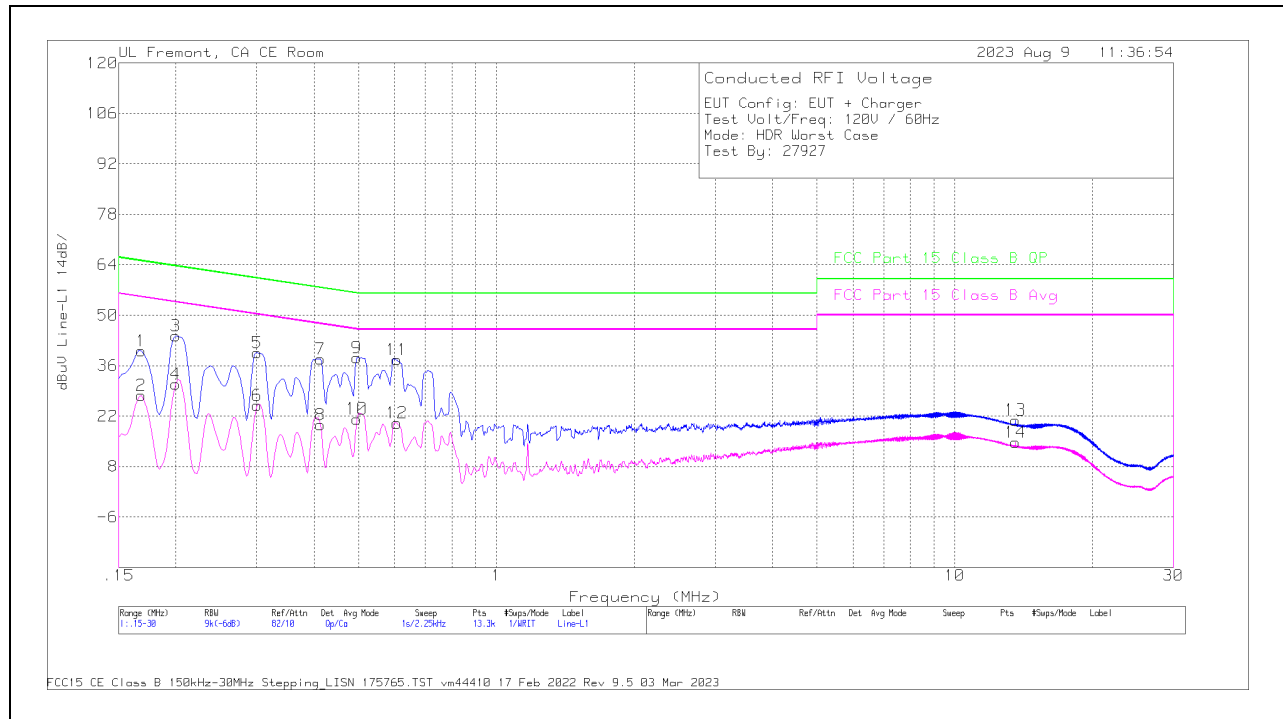
Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS



# 11.1. AC Power Line With AC/DC Adapter

## LINE 1 RESULTS

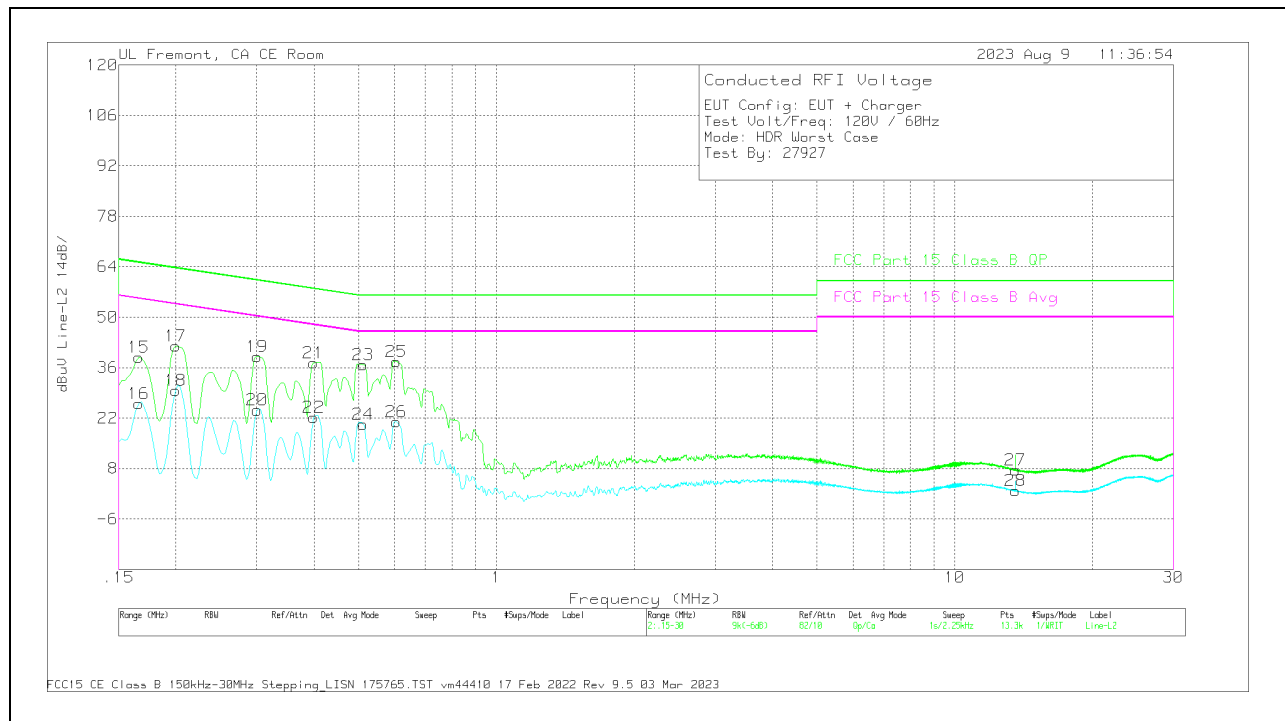


### Trace Markers

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv (dB)	C1&C3 cable path loss (dB)	207996 Limiter with short cabl (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av(CISPR)M argin (dB)
2	.168	18.33	Ca	0	0	9.4	27.73	-	-	55.06	-27.33
4	.1995	21.47	Ca	0	0	9.4	30.87	-	-	53.63	-22.76
6	.3008	15.64	Ca	0	0	9.3	24.94	-	-	50.22	-25.28
8	.4133	10.14	Ca	0	.1	9.3	19.54	-	-	47.58	-28.04
10	.4965	11.83	Ca	0	.1	9.3	21.23	-	-	46.06	-24.83
12	.6068	10.62	Ca	0	.1	9.3	20.02	-	-	46	-25.98
14	13.56	5.08	Ca	.1	.2	9.3	14.68	-	-	50	-35.32
1	.168	30.7	Qp	0	0	9.4	40.1	65.06	-24.96	-	-
3	.1995	34.87	Qp	0	0	9.4	44.27	63.63	-19.36	-	-
5	.3008	30.25	Qp	0	0	9.3	39.55	60.22	-20.67	-	-
7	.4133	28.46	Qp	0	.1	9.3	37.86	57.58	-19.72	-	-
9	.4965	28.77	Qp	0	.1	9.3	38.17	56.06	-17.89	-	-
11	.6068	28.18	Qp	0	.1	9.3	37.58	56	-18.42	-	-
13	13.56	11.28	Qp	.1	.2	9.3	20.88	60	-39.12	-	-

Qp - Quasi-Peak detector  
 Ca - CISPR average detection

### LINE 2 RESULTS



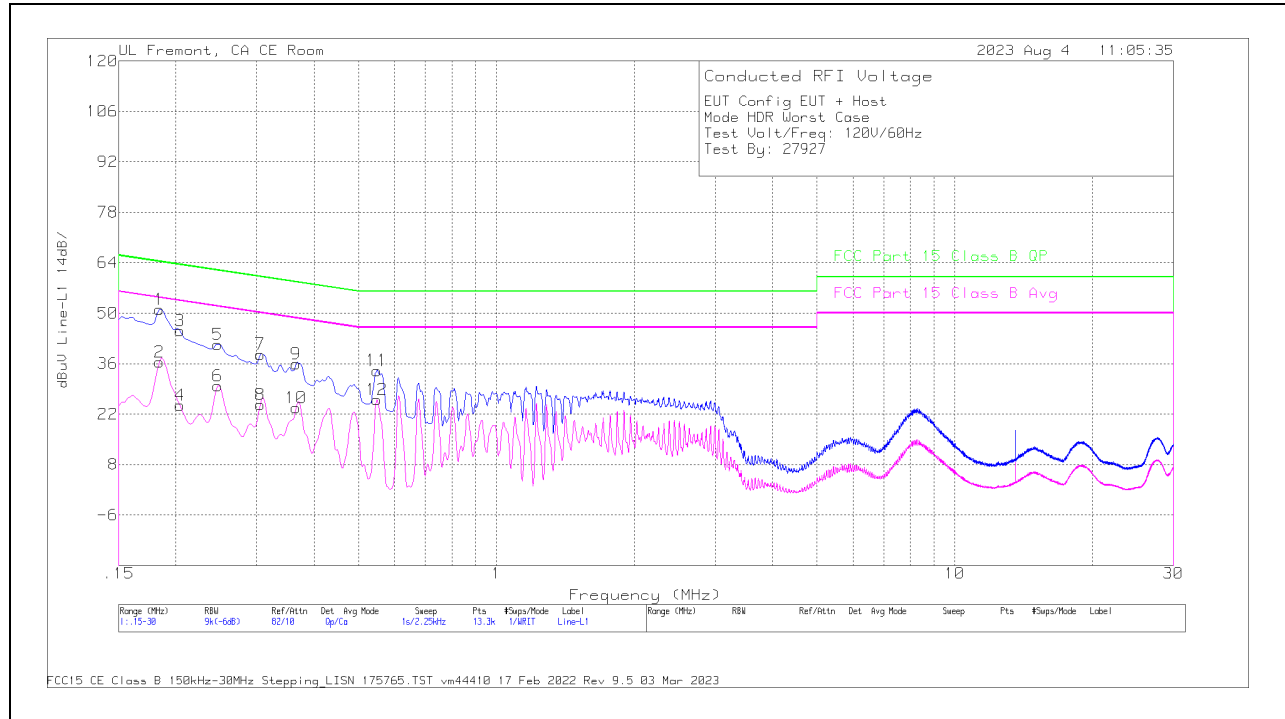
### Trace Markers

Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2 LISN (dB)	C2&C3 cable path loss (dB)	207996 Limiter with short cabl (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av(CISPR)M argin (dB)
16	.1658	16.62	Ca	0	0	9.4	26.02	-	-	55.17	-29.15
18	.1995	20.26	Ca	0	0	9.4	29.66	-	-	53.63	-23.97
20	.3008	14.89	Ca	0	0	9.3	24.19	-	-	50.22	-26.03
22	.3998	12.71	Ca	0	.1	9.3	22.11	-	-	47.86	-25.75
24	.5123	10.88	Ca	0	.1	9.3	20.28	-	-	46	-25.72
26	.6045	11.5	Ca	0	.1	9.3	20.9	-	-	46	-25.1
28	13.569	-7.77	Ca	.1	.2	9.3	1.83	-	-	50	-48.17
15	.1658	29.5	Qp	0	0	9.4	38.9	65.17	-26.27	-	-
17	.1995	32.58	Qp	0	0	9.4	41.98	63.63	-21.65	-	-
19	.3008	29.71	Qp	0	0	9.3	39.01	60.22	-21.21	-	-
21	.3998	27.93	Qp	0	.1	9.3	37.33	57.86	-20.53	-	-
23	.5123	27.34	Qp	0	.1	9.3	36.74	56	-19.26	-	-
25	.6045	28.22	Qp	0	.1	9.3	37.62	56	-18.38	-	-
27	13.569	-2	Qp	.1	.2	9.3	7.6	60	-52.4	-	-

Qp - Quasi-Peak detector  
Ca - CISPR average detection

## 11.2. AC Power Line with Laptop

### LINE 1 RESULTS

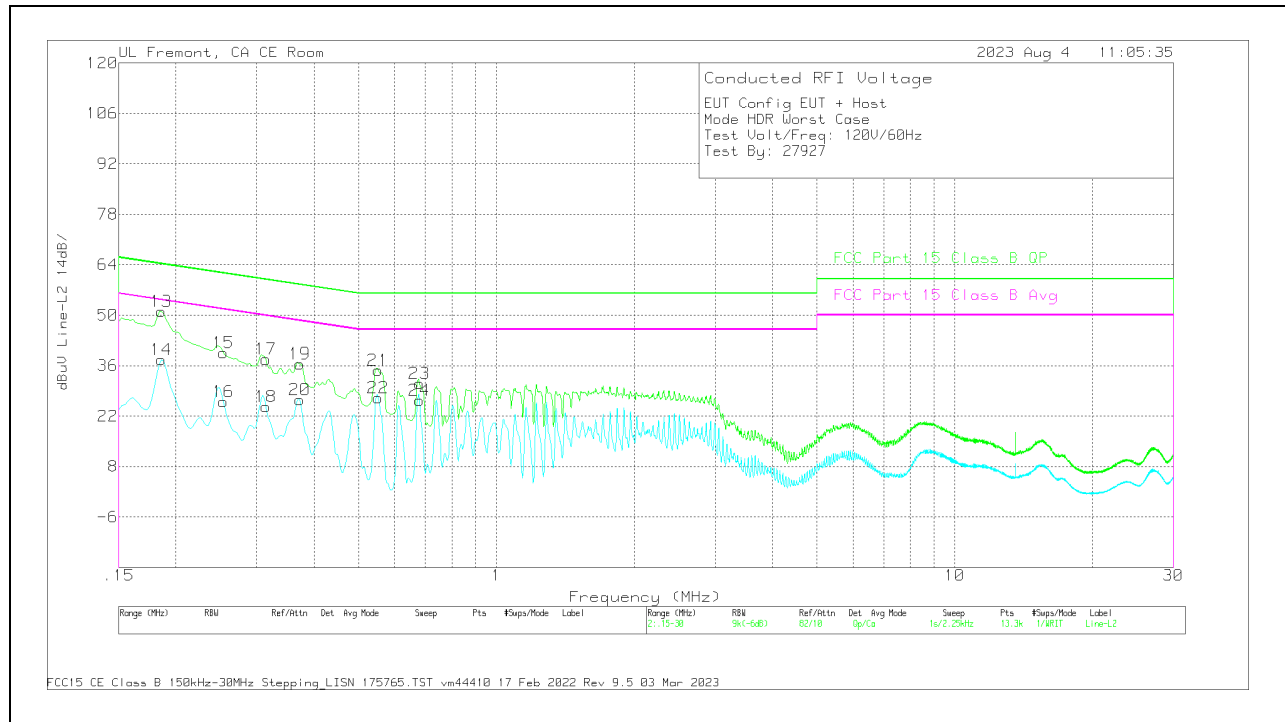


#### Trace Markers

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L1_LISN.csv (dB)	C1&C3 cable path loss (dB)	207996 Limiter with short cabl (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av(CISPR)M argin (dB)
2	.1838	27.11	Ca	0	0	9.4	36.51	-	-	54.31	-17.8
4	.204	15	Ca	0	0	9.4	24.4	-	-	53.45	-29.05
6	.2468	20.55	Ca	0	0	9.3	29.85	-	-	51.87	-22.02
8	.3053	15.29	Ca	0	0	9.3	24.59	-	-	50.1	-25.51
10	.366	14.42	Ca	0	0	9.3	23.72	-	-	48.59	-24.87
12	.5483	16.62	Ca	0	.1	9.3	26.02	-	-	46	-19.98
1	.1838	41.68	Qp	0	0	9.4	51.08	64.31	-13.23	-	-
3	.204	35.79	Qp	0	0	9.4	45.19	63.45	-18.26	-	-
5	.2468	32.08	Qp	0	0	9.3	41.38	61.87	-20.49	-	-
7	.3053	29.31	Qp	0	0	9.3	38.61	60.1	-21.49	-	-
9	.366	26.66	Qp	0	0	9.3	35.96	58.59	-22.63	-	-
11	.5483	24.69	Qp	0	.1	9.3	34.09	56	-21.91	-	-

Qp - Quasi-Peak detector  
Ca - CISPR average detection

### LINE 2 RESULTS



#### Trace Markers

Range 2: Line-L2_15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	L2_LISN (dB)	C2&C3 cable path loss (dB)	207996 Limiter with short cabl (dB)	Corrected Reading (dBuV)	FCC Part 15 Class B QP (dBuV)	QP Margin (dB)	FCC Part 15 Class B Avg (dBuV)	Av(CISPR)M argin (dB)
14	.186	28.29	Ca	0	0	9.4	37.69	-	-	54.21	-16.52
16	.2535	16.67	Ca	0	0	9.3	25.97	-	-	51.64	-25.67
18	.3143	15.39	Ca	0	0	9.3	24.69	-	-	49.86	-25.17
20	.3728	17.08	Ca	0	.1	9.3	26.48	-	-	48.44	-21.96
22	.5528	17.59	Ca	0	.1	9.3	26.99	-	-	46	-19.01
24	.6788	17.02	Ca	0	.1	9.3	26.42	-	-	46	-19.58
13	.186	41.72	Qp	0	0	9.4	51.12	64.21	-13.09	-	-
15	.2535	30.3	Qp	0	0	9.3	39.6	61.64	-22.04	-	-
17	.3143	28.45	Qp	0	0	9.3	37.75	59.86	-22.11	-	-
19	.3728	27.12	Qp	0	.1	9.3	36.52	58.44	-21.92	-	-
21	.5528	25.28	Qp	0	.1	9.3	34.68	56	-21.32	-	-
23	.6788	21.68	Qp	0	.1	9.3	31.08	56	-24.92	-	-

Qp - Quasi-Peak detector  
 Ca - CISPR average detection

## 12. SETUP PHOTOS

Please refer to 14523772-EP1V1 for setup photos

**END OF TEST REPORT**