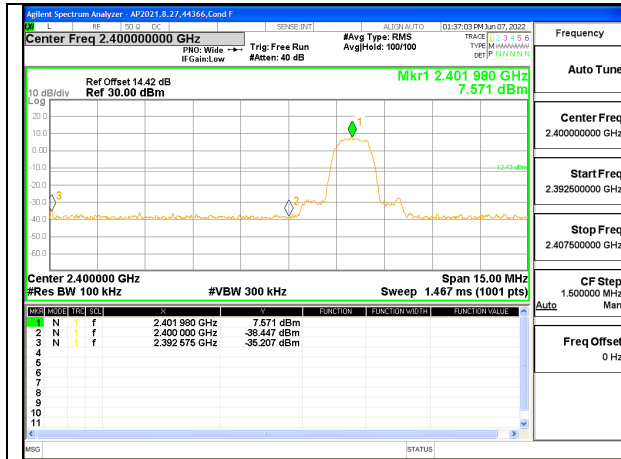


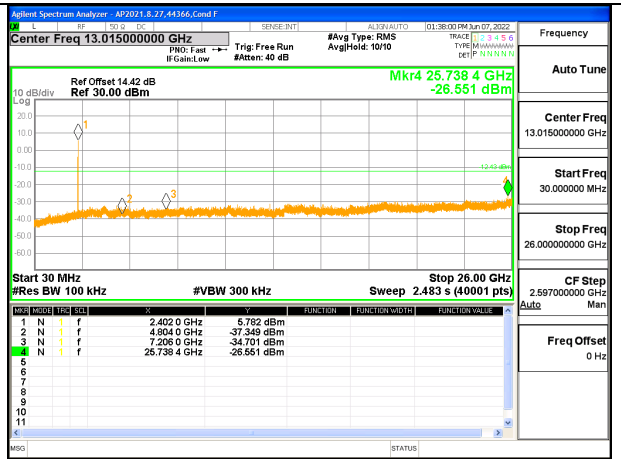
### 9.8.8. LOW POWER ENHANCED DATA RATE TXBF 8PSK MODULATION

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

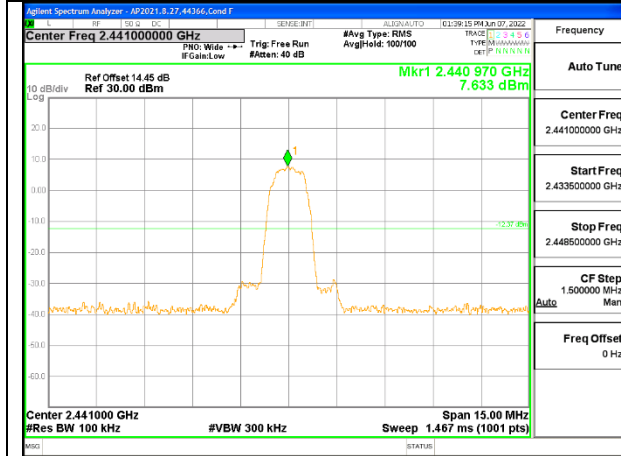
#### ANT 4 SPURIOUS EMISSIONS, NON-HOPPING



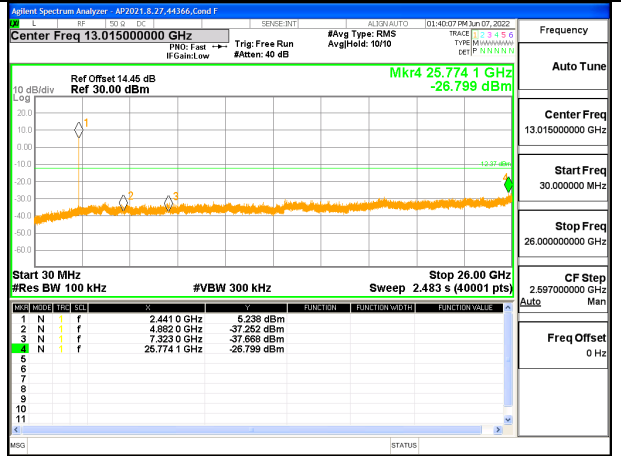
LOW CHANNEL , BANDEDGE ANT 4



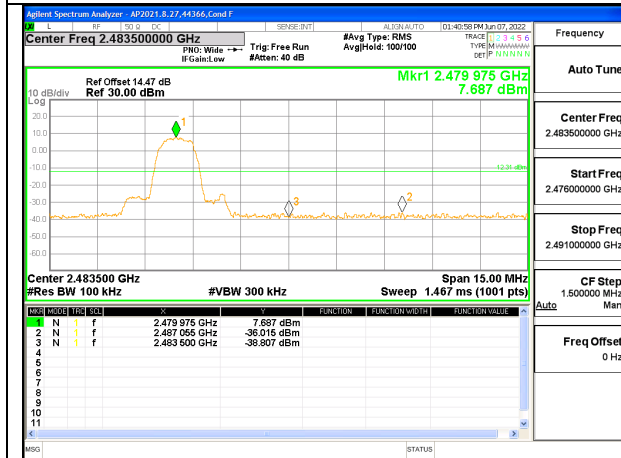
LOW CHANNEL OUT-OF-BAND ANT 4



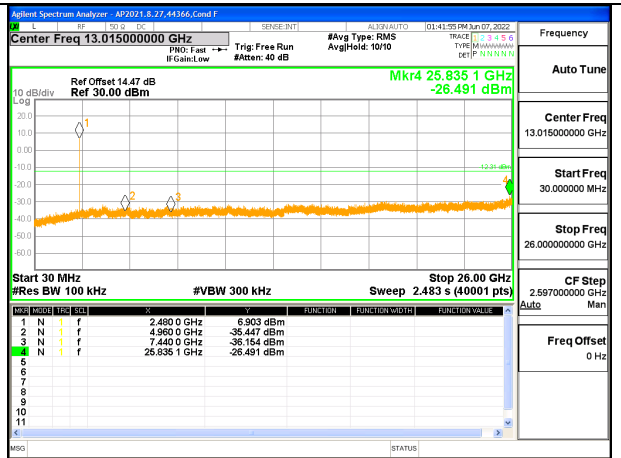
MID CHANNEL REFERENCE ANT 4



MID CHANNEL OUT-OF-BAND ANT 4

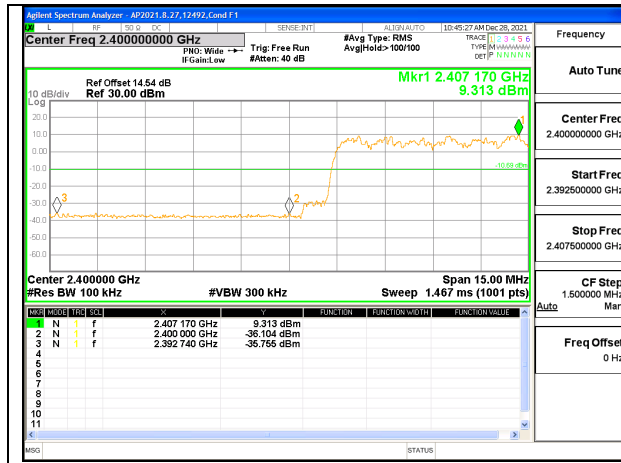


HIGH CHANNEL BANDEDGE ANT 4

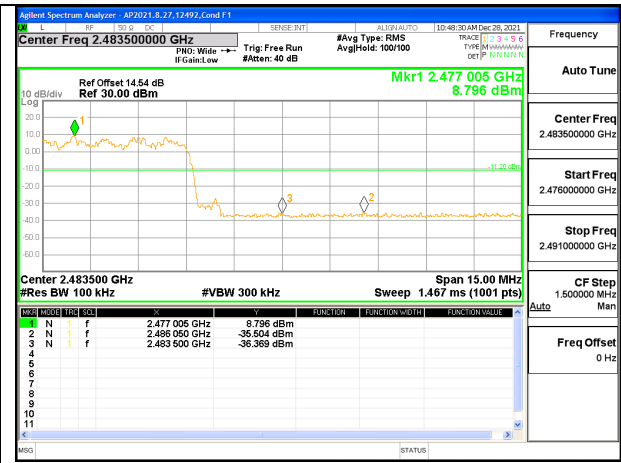


HIGH CHANNEL OUT-OF-BAND ANT 4

**ANT 4 SPURIOUS BANDEGE EMISSIONS WITH HOPPING ON**

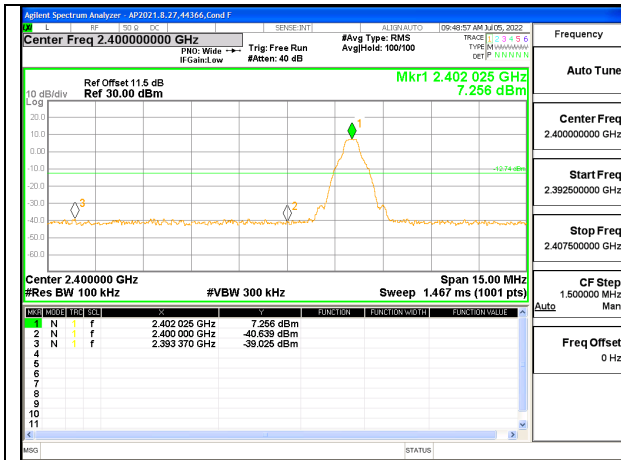


**LOW BANDEGE**

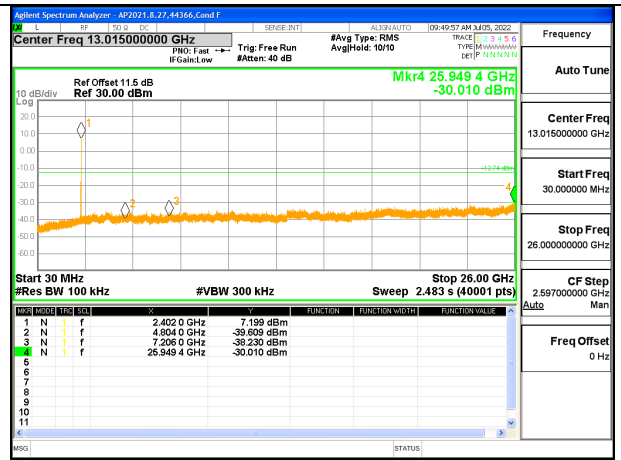


**HIGH BANDEGE**

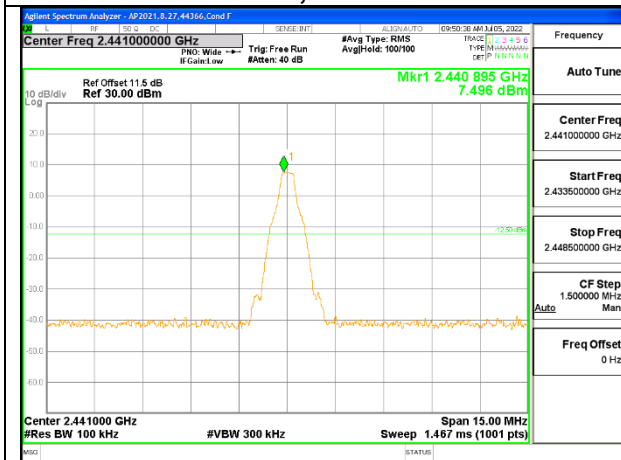
ANT 3 SPURIOUS EMISSIONS, NON-HOPPING



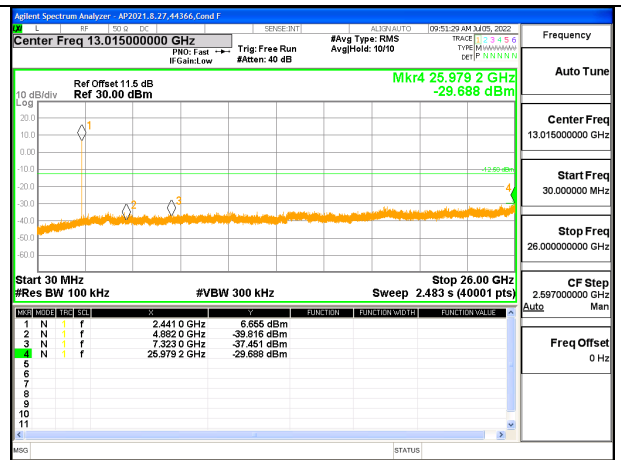
LOW CHANNEL , BANDEDGE ANT 3



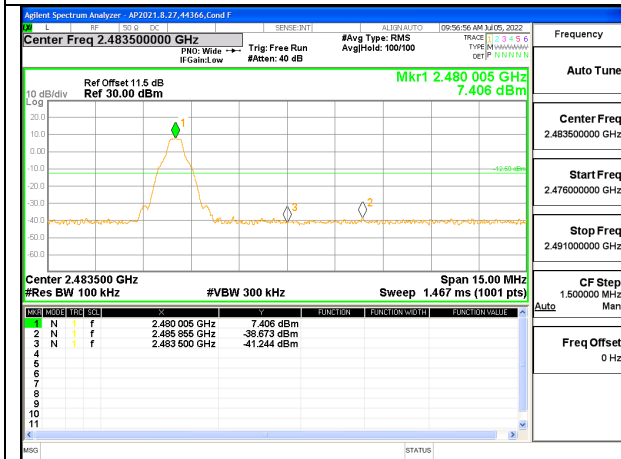
LOW CHANNEL OUT-OF-BAND ANT 3



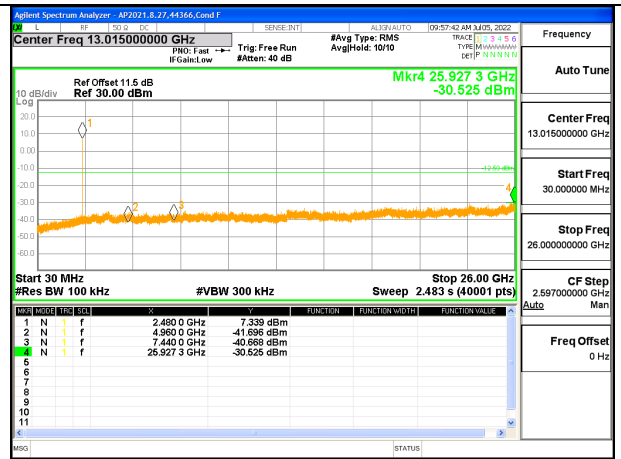
MID CHANNEL REFERENCE ANT 3



MID CHANNEL OUT-OF-BAND ANT 3

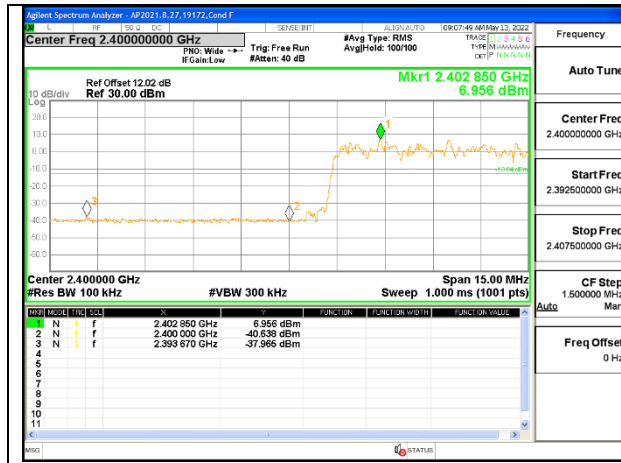


HIGH CHANNEL BANDEDGE ANT 3

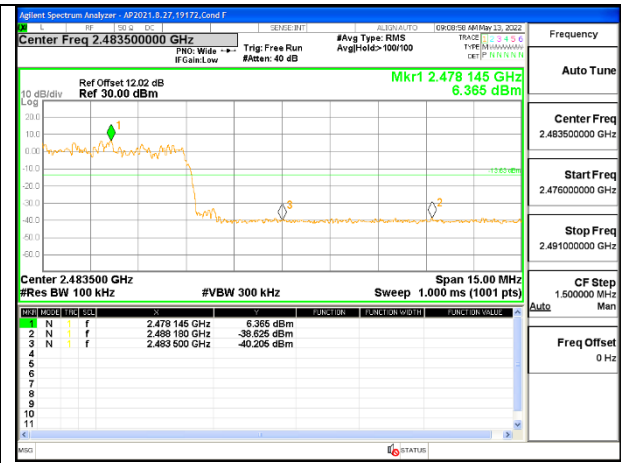


HIGH CHANNEL OUT-OF-BAND ANT 3

**ANT 3 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 scans above 1 GHz 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.

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:

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 v05r02**

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.

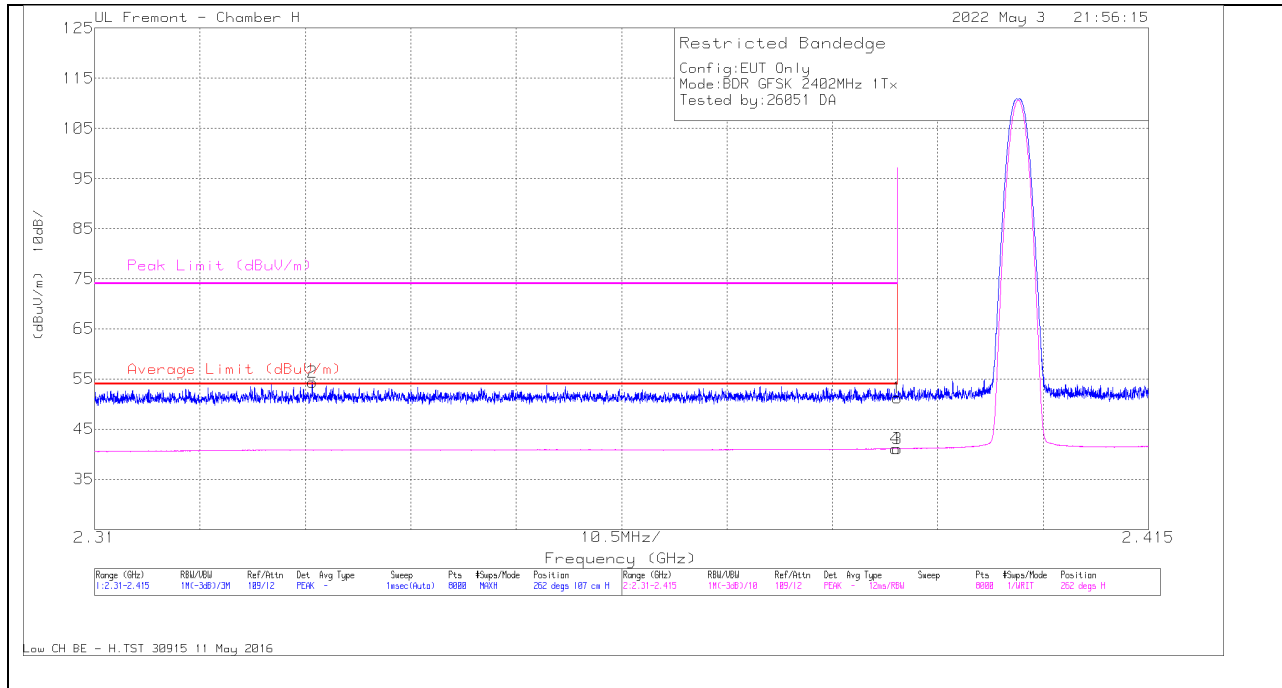
### 10.1. TRANSMITTER ABOVE 1 GHz

#### 10.1.1. HIGH POWER BASIC DATA RATE GFSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



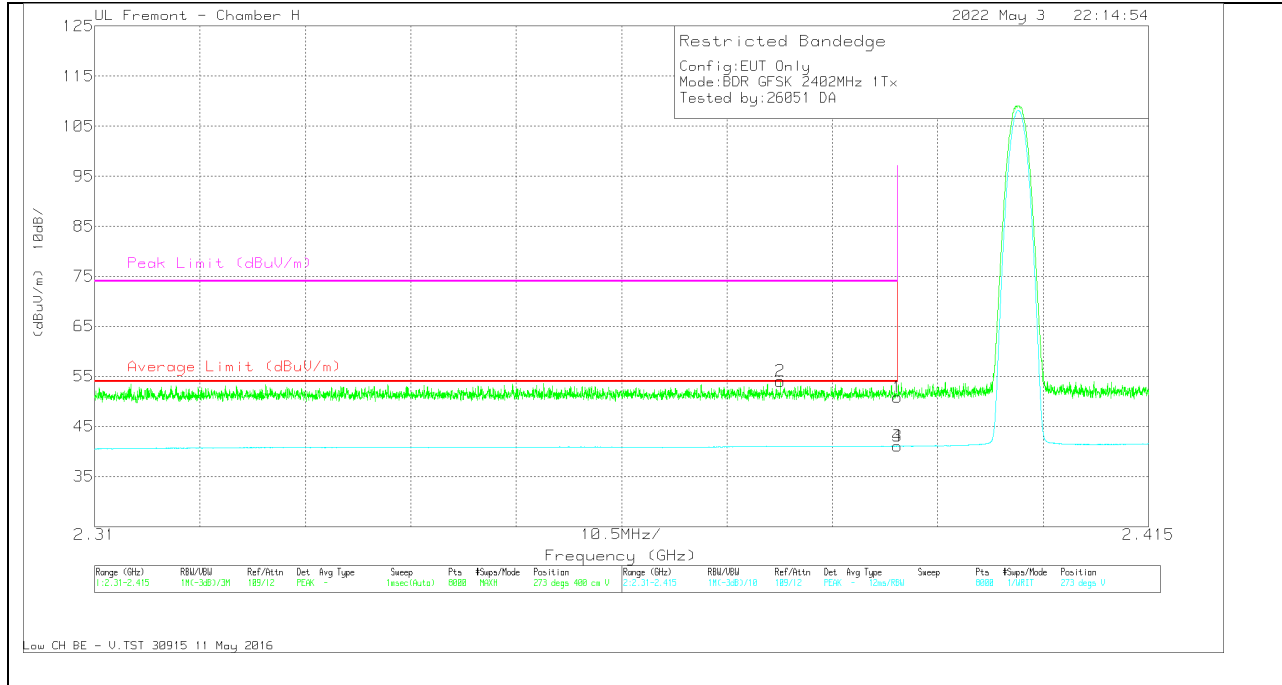
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/C bl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.331686	40.19	Pk	31.9	-17.7	54.39	-	-	74	-19.61	262	107	H
4	* 2.389799	26.81	VA1T	32	-17.7	41.11	54	-12.89	-	-	262	107	H
1	* 2.39	36.97	Pk	32	-17.7	51.27	-	-	74	-22.73	262	107	H
3	* 2.39	26.76	VA1T	32	-17.7	41.06	54	-12.94	-	-	262	107	H

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

Pk - Peak detector

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

### VERTICAL RESULT



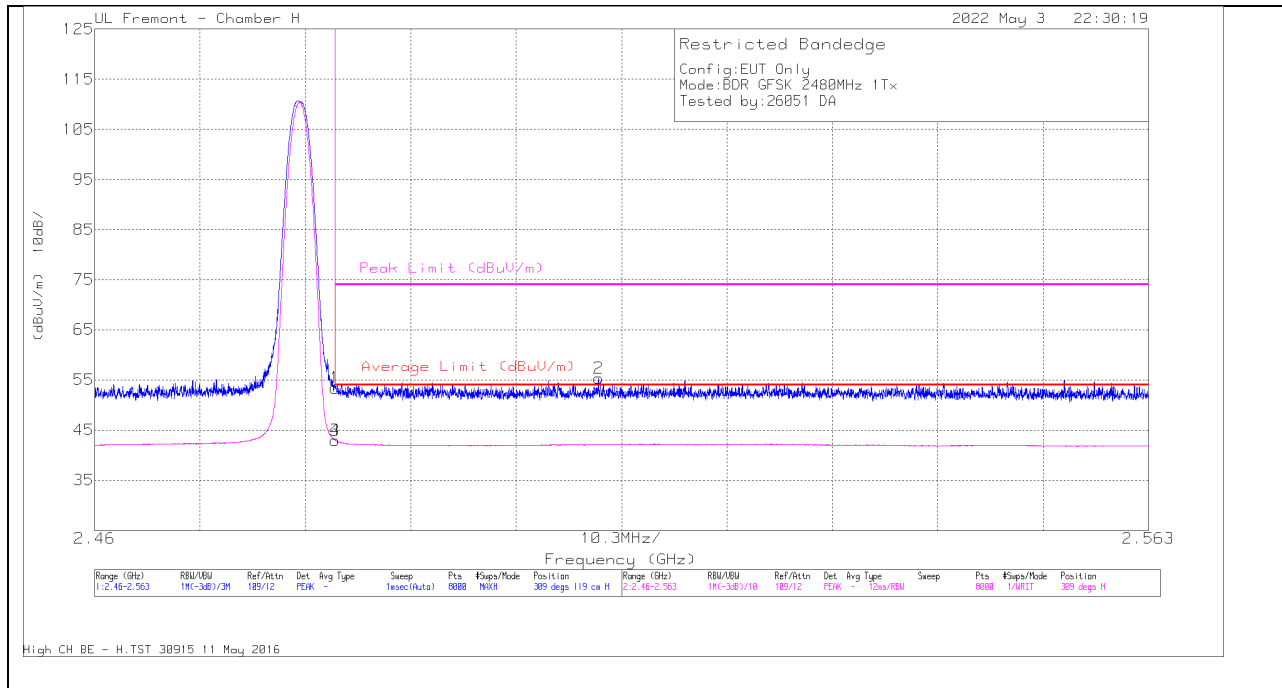
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cb I/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.378313	39.74	Pk	32	-17.7	54.04	-	-	74	-19.96	273	400	V
4	* 2.389996	26.77	VA1T	32	-17.7	41.07	54	-12.93	-	-	273	400	V
1	* 2.39	36.57	Pk	32	-17.7	50.87	-	-	74	-23.13	273	400	V
3	* 2.39	26.77	VA1T	32	-17.7	41.07	54	-12.93	-	-	273	400	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)**

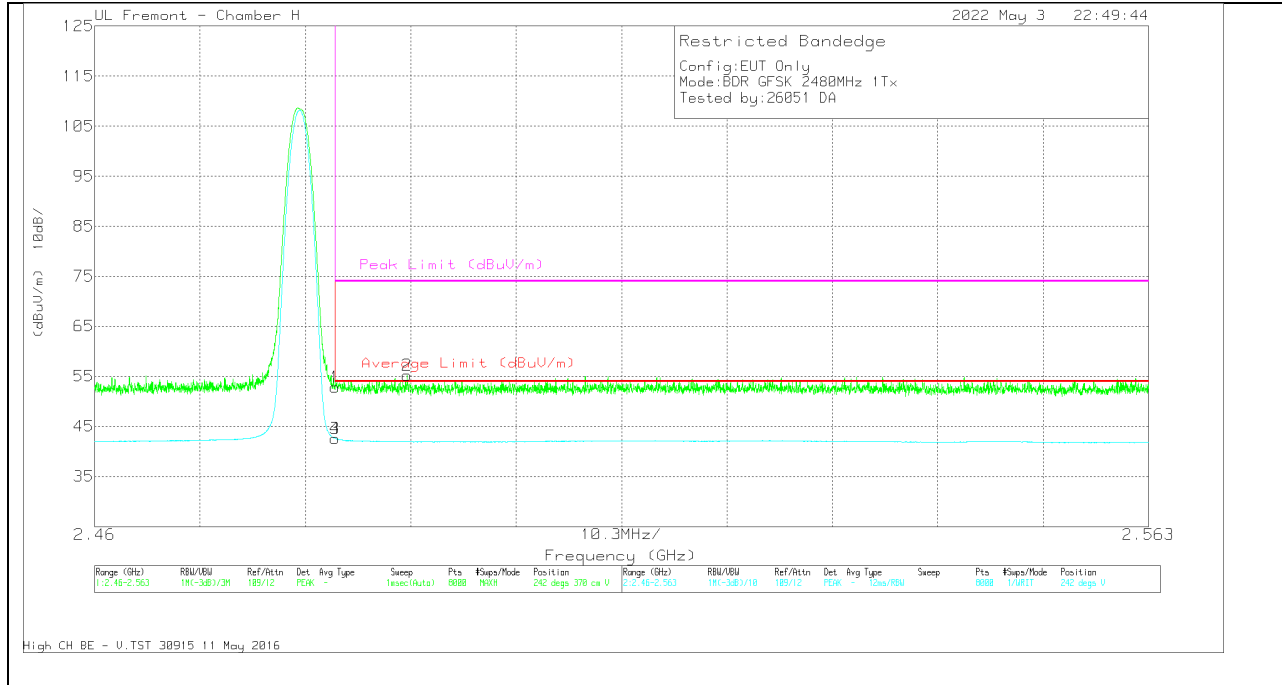
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	38.31	Pk	32.7	-17.6	53.41	-	-	74	-20.59	309	119	H
3	* 2.4835	27.91	VA1T	32.7	-17.6	43.01	54	-10.99	-	-	309	119	H
4	* 2.483501	27.91	VA1T	32.7	-17.6	43.01	54	-10.99	-	-	309	119	H
2	2.509255	40.37	Pk	32.8	-17.8	55.37	-	-	74	-18.63	309	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



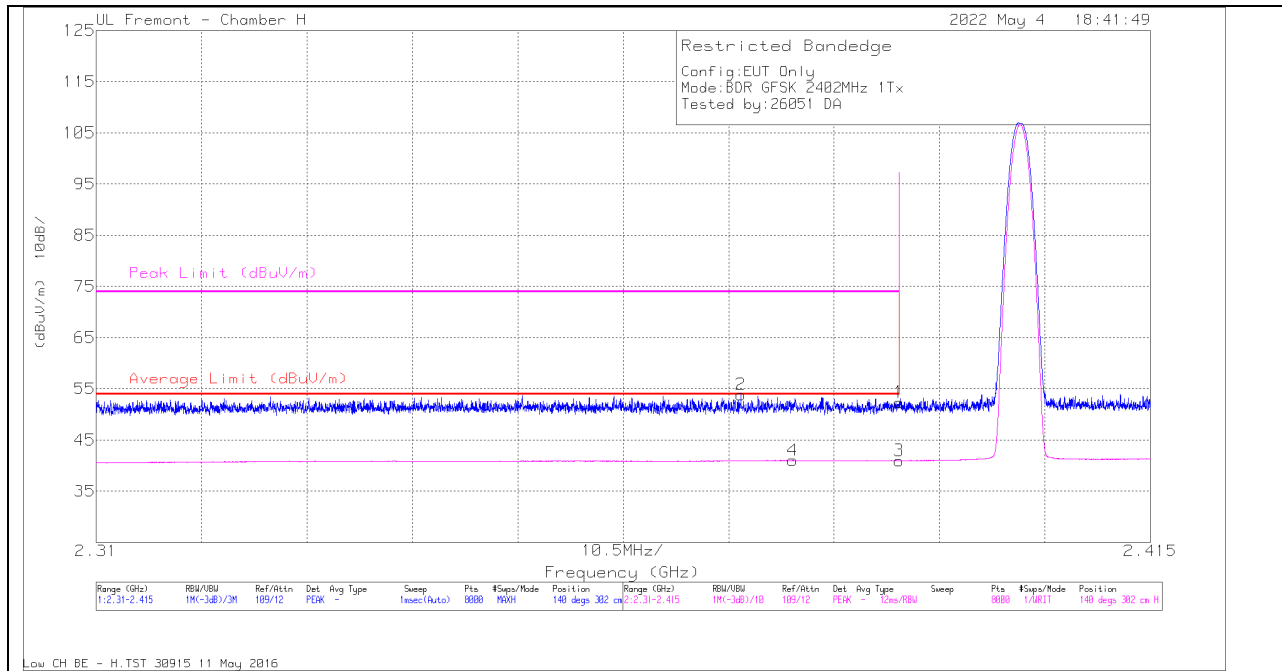
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	37.77	Pk	32.7	-17.6	52.87	-	-	74	-21.13	242	370	V
3	* 2.4835	27.53	VA1T	32.7	-17.6	42.63	54	-11.37	-	-	242	370	V
4	* 2.483501	27.53	VA1T	32.7	-17.6	42.63	54	-11.37	-	-	242	370	V
2	* 2.490544	40.35	Pk	32.7	-17.8	55.25	-	-	74	-18.75	242	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

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

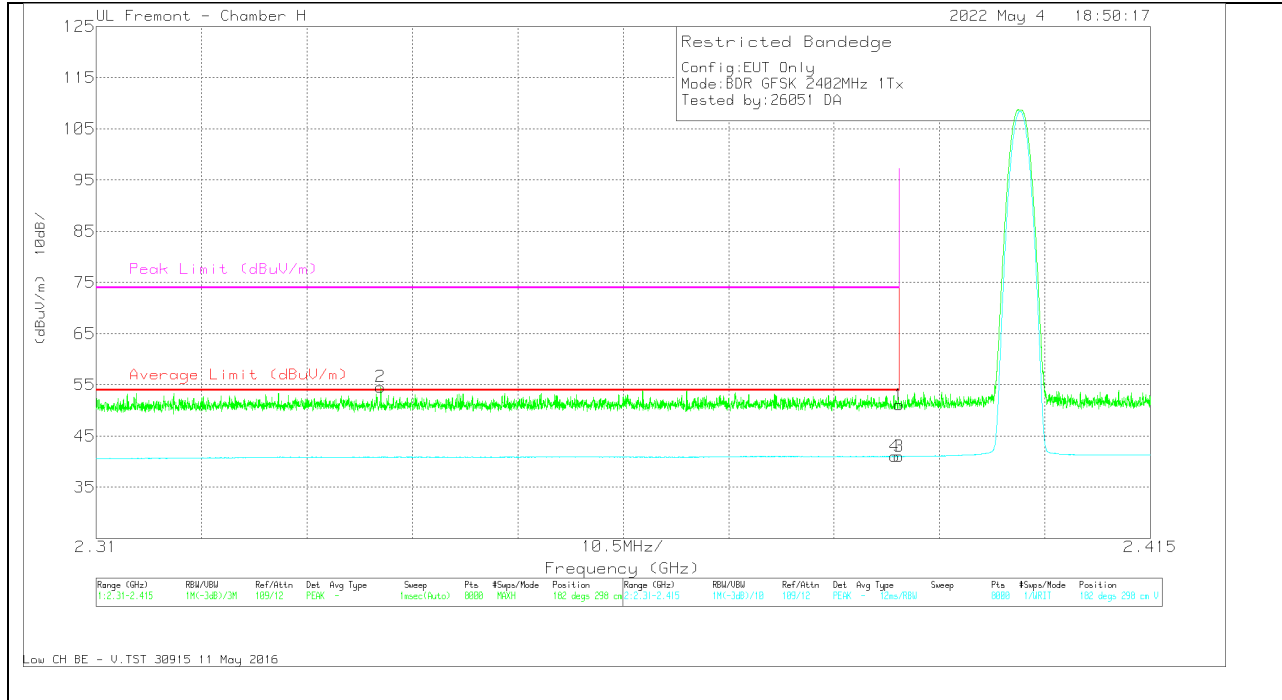


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	38.07	Pk	32	-17.7	52.37	-	-	74	-21.63	140	302	H
2	* 2.374217	39.56	Pk	32	-17.7	53.86	-	-	74	-20.14	140	302	H
3	* 2.39	26.66	VA1T	32	-17.7	40.96	54	-13.04	-	-	140	302	H
4	* 2.379376	26.82	VA1T	32	-17.8	41.02	54	-12.98	-	-	140	302	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**



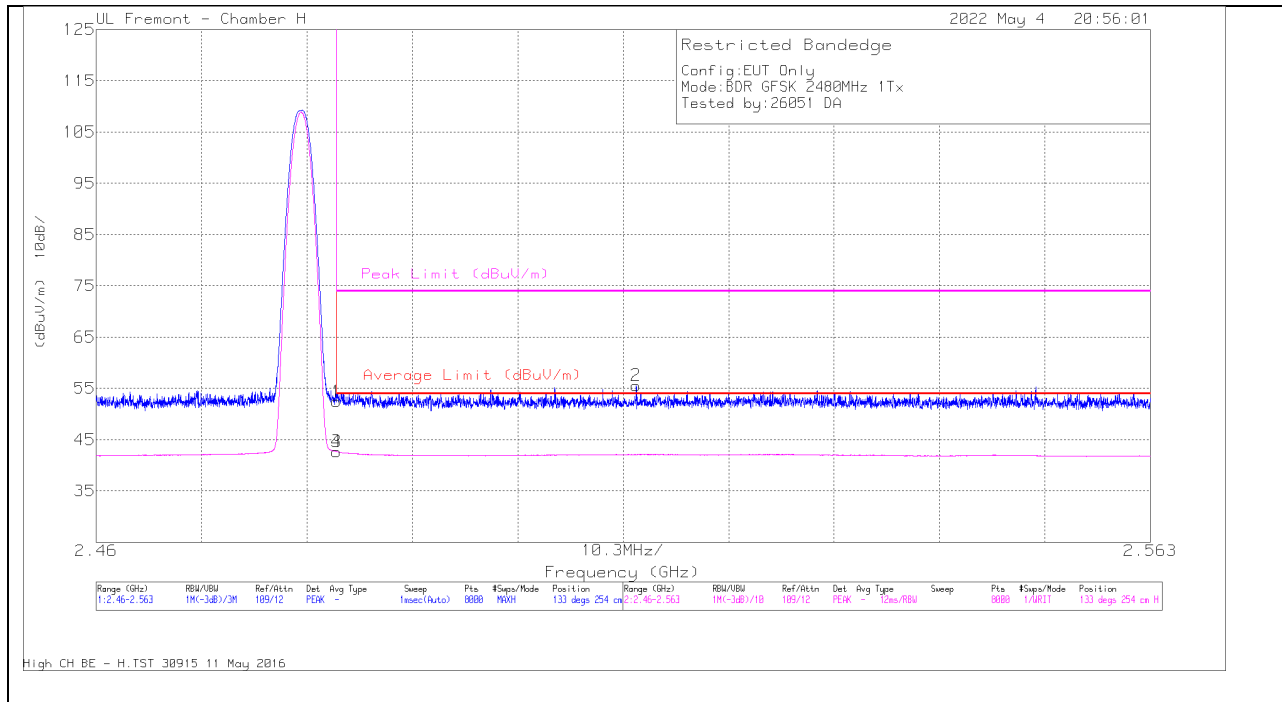
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/C bl/Pad (dB)	Correct ed Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.78	Pk	32	-17.7	51.08	-	-	74	-22.92	182	298	V
2	* 2.338341	40.5	Pk	31.8	-17.7	54.6	-	-	74	-19.4	182	298	V
3	* 2.39	26.72	VA1T	32	-17.7	41.02	54	-12.98	-	-	182	298	V
4	* 2.389563	26.84	VA1T	32	-17.8	41.04	54	-12.96	-	-	182	298	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**



**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbi/Pad (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	37.34	Pk	32.7	-17.6	52.44	-	-	74	-21.56	133	254	H
3	* 2.4835	27.56	VA1T	32.7	-17.6	42.66	54	-11.34	-	-	133	254	H
4	* 2.483501	27.56	VA1T	32.7	-17.6	42.66	54	-11.34	-	-	133	254	H
2	2.51277	40.46	Pk	32.8	-17.7	55.56	-	-	74	-18.44	133	254	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**



**Trace Markers**

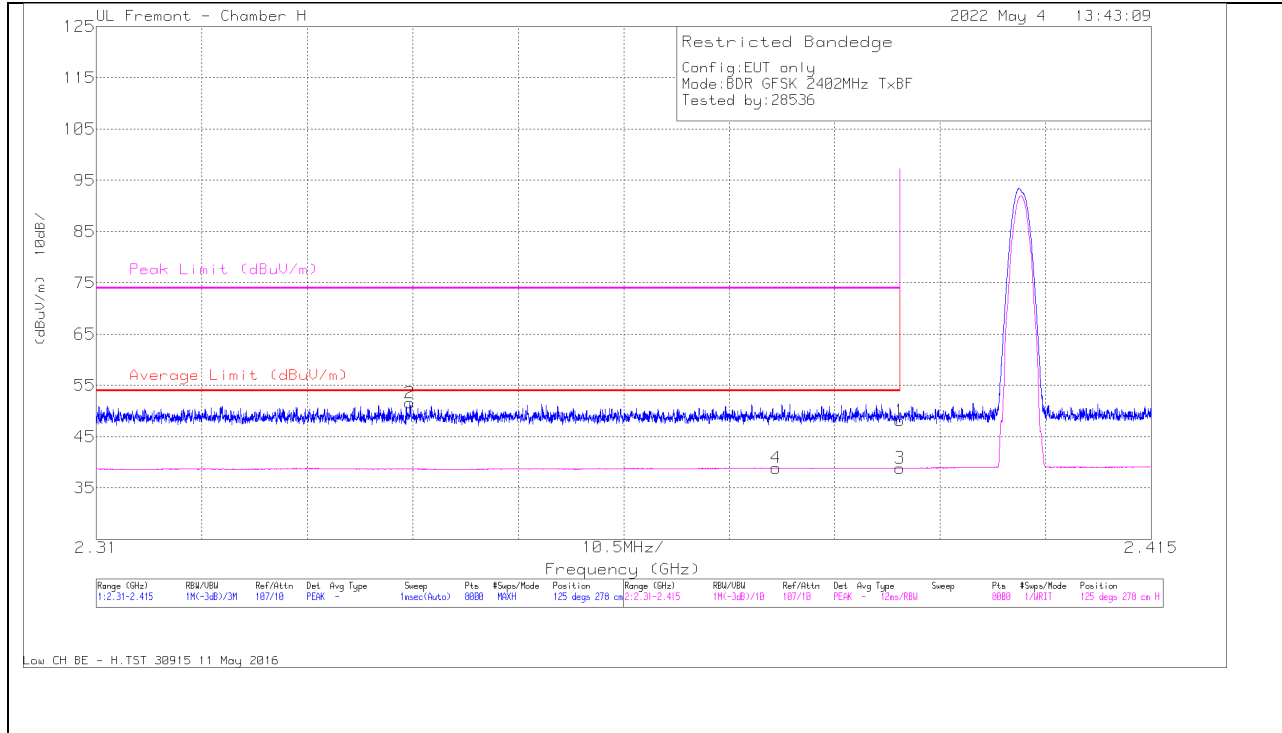
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/C b/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	37.06	Pk	32.7	-17.6	52.16	-	-	74	-21.84	129	167	V
3	* 2.4835	27.48	VA1T	32.7	-17.6	42.58	54	-11.42	-	-	129	167	V
4	* 2.483501	27.48	VA1T	32.7	-17.6	42.58	54	-11.42	-	-	129	167	V
2	* 2.495695	40.34	Pk	32.7	-17.7	55.34	-	-	74	-18.66	129	167	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

## 10.1.2. HIGH POWER BASIC DATA RATE TXBF GFSK MODULATION

### BANDEDGE (LOW CHANNEL)

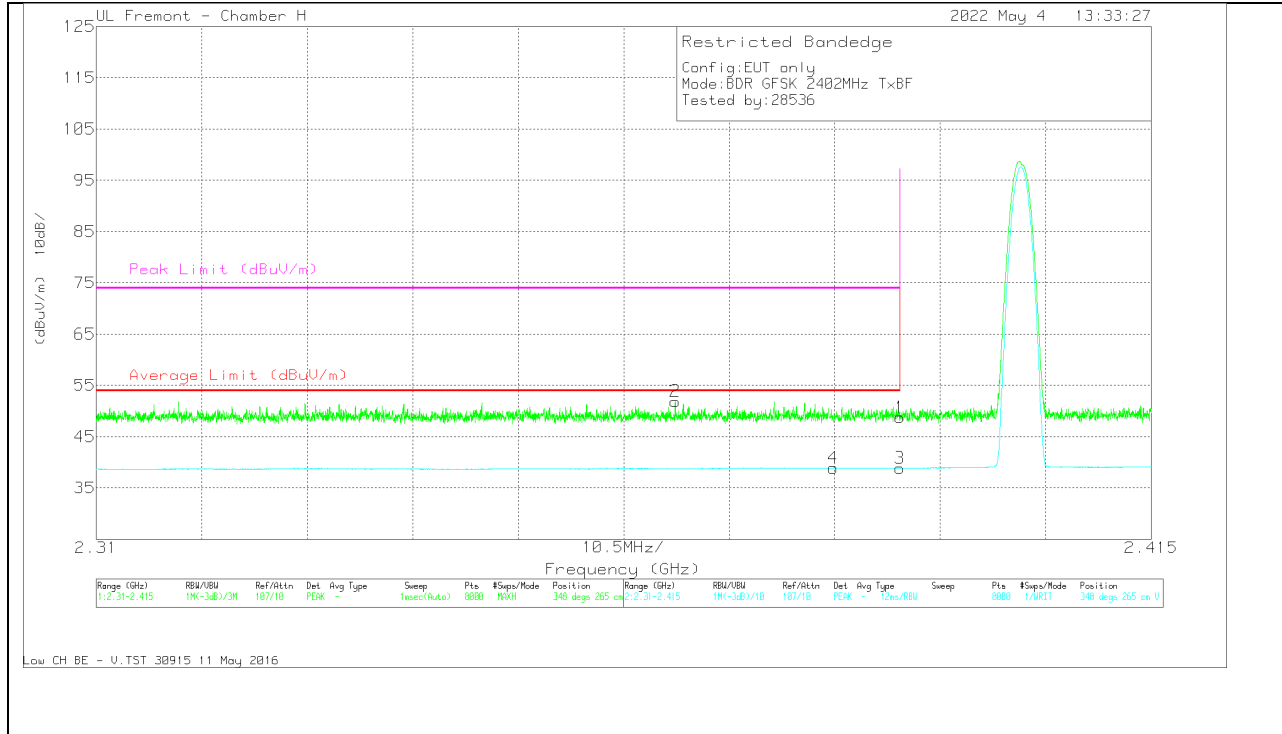
### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbi/Pad (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	43.84	Pk	32	-27.7	48.14	-	-	74	-25.86	125	278	H
2	* 2.341203	47.37	Pk	31.8	-27.6	51.57	-	-	74	-22.43	125	278	H
3	* 2.39	34.57	VA1T	32	-27.7	38.87	54	-15.13	-	-	125	278	H
4	* 2.377643	34.61	VA1T	32	-27.7	38.91	54	-15.09	-	-	125	278	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 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.367628	47.79	Pk	31.9	-27.8	51.89	-	-	74	-22.11	348	265	V
4	* 2.383341	34.71	VA1T	32	-27.8	38.91	54	-15.09	-	-	348	265	V
1	* 2.39	44.44	Pk	32	-27.7	48.74	-	-	74	-25.26	348	265	V
3	* 2.39	34.54	VA1T	32	-27.7	38.84	54	-15.16	-	-	348	265	V

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

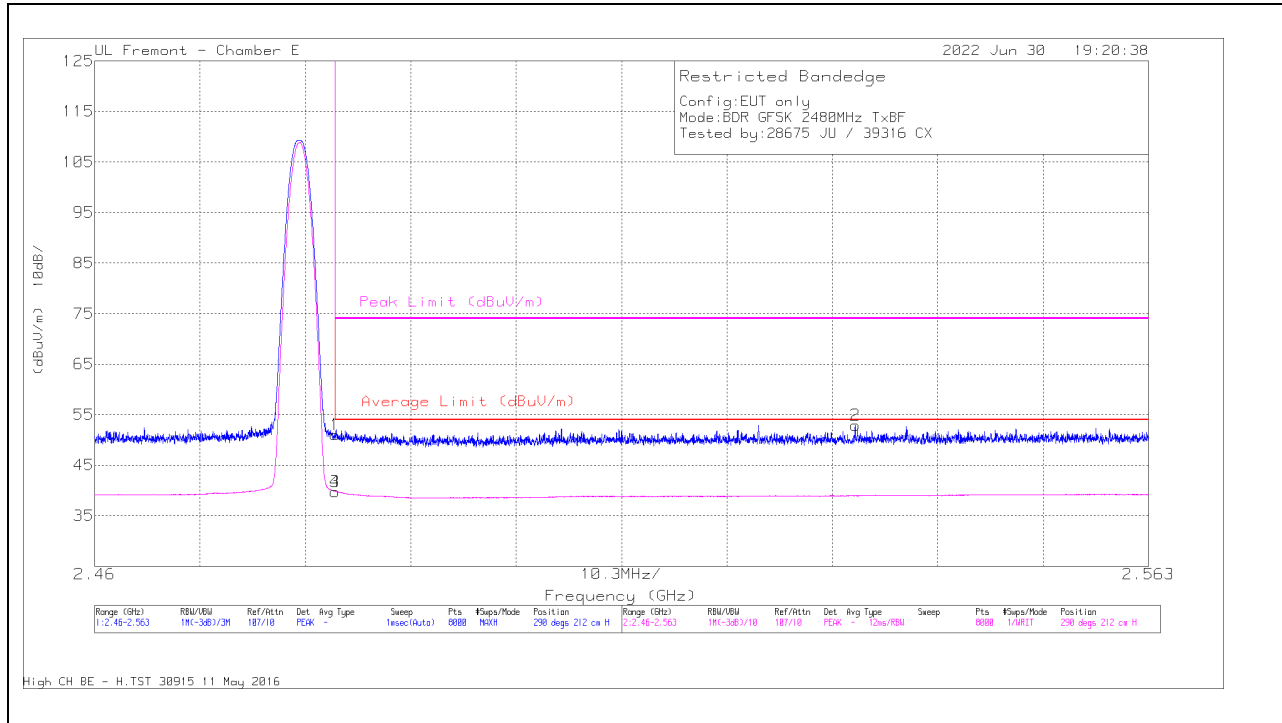
Pk - Peak detector

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



**BANDEDGE (HIGH CHANNEL)**

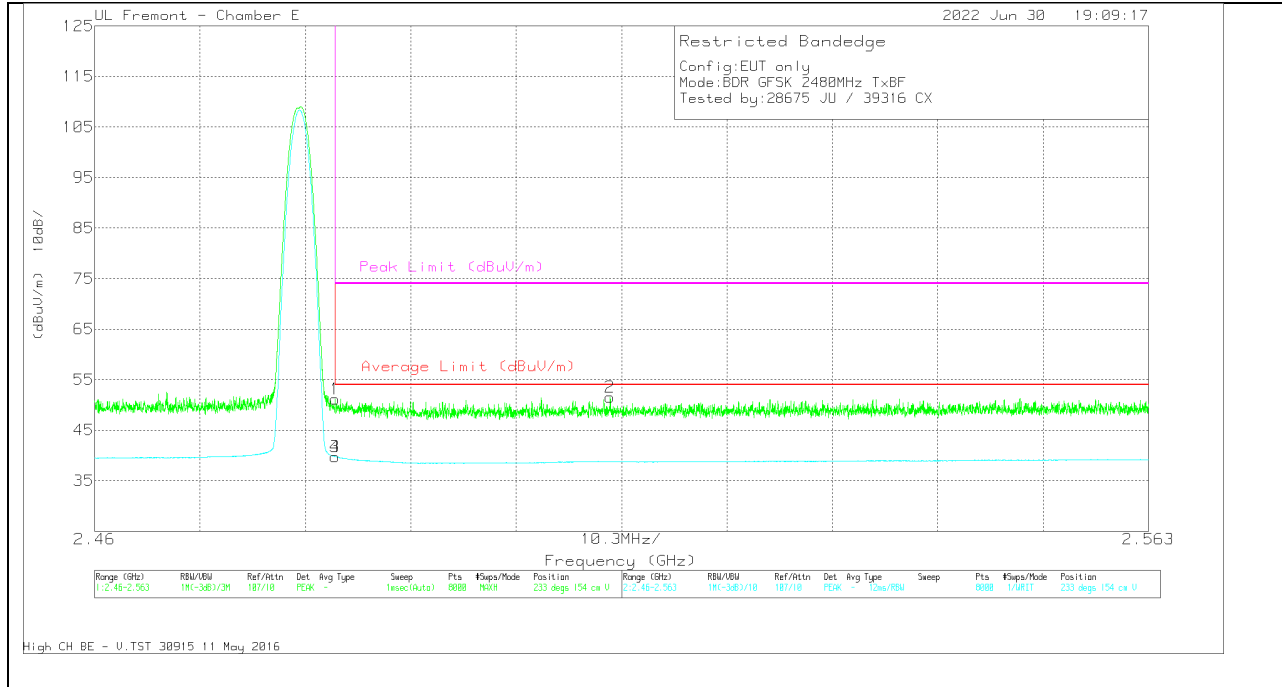
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cbl/ Pad (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	45.12	Pk	31.8	-25.9	51.02	-	-	74	-22.98	290	212	H
3	* 2.4835	33.88	VA1T	31.8	-25.9	39.78	54	-14.22	-	-	290	212	H
4	* 2.483501	33.88	VA1T	31.8	-25.9	39.78	54	-14.22	-	-	290	212	H
2	2.534339	46.65	Pk	32.3	-26	52.95	-	-	74	-21.05	290	212	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)	Amp/Cbl /Pad (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	45.29	Pk	31.8	-25.9	51.19	-	-	74	-22.81	233	154	V
3	* 2.4835	33.88	VA1T	31.8	-25.9	39.78	54	-14.22	-	-	233	154	V
4	* 2.483501	33.88	VA1T	31.8	-25.9	39.78	54	-14.22	-	-	233	154	V
2	2.510388	45.46	Pk	32	-25.9	51.56	-	-	74	-22.44	233	154	V

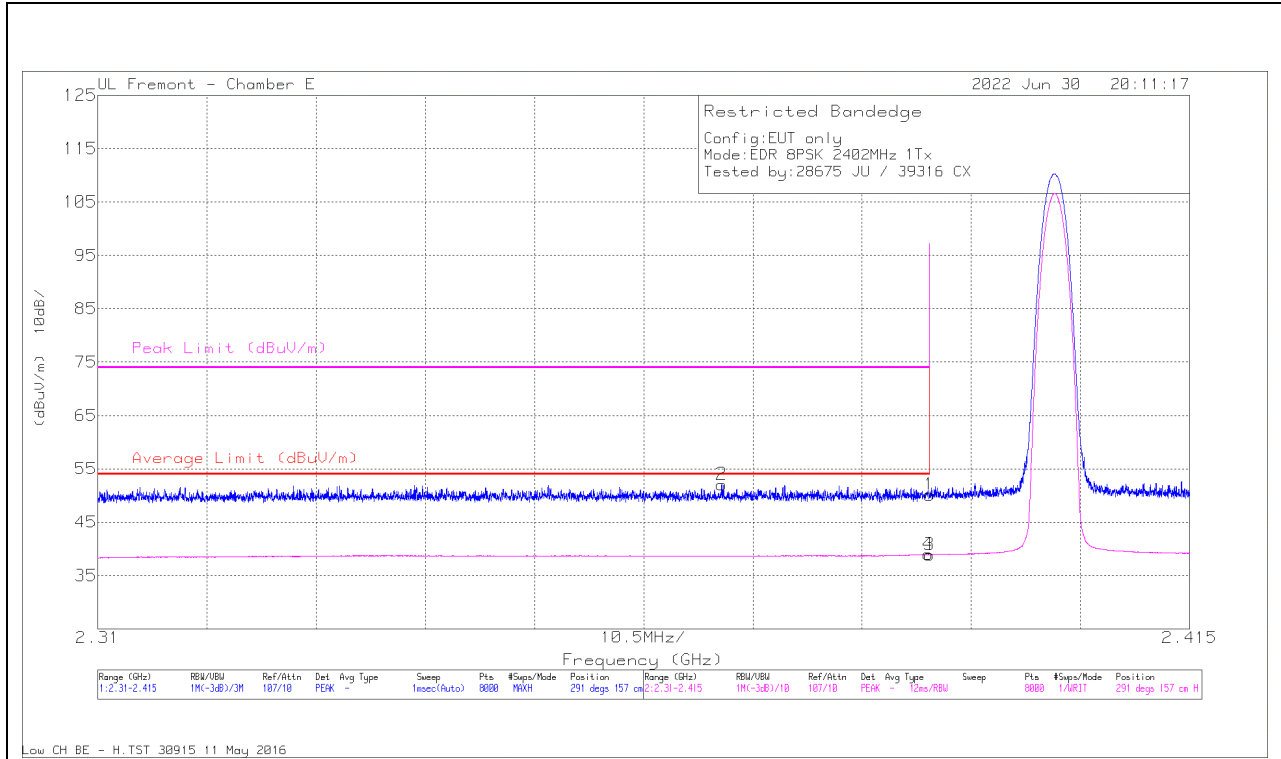
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### 10.1.3. HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



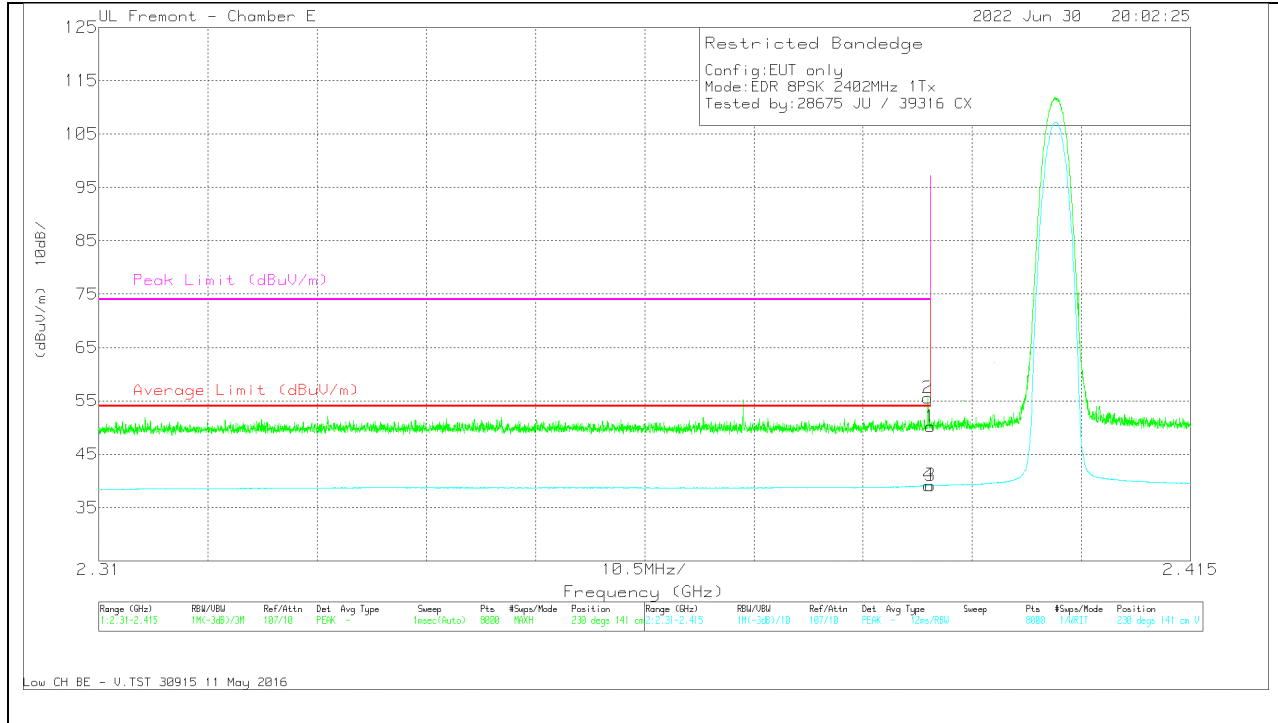
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cb I/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.05	Pk	32	-25.9	50.15	-	-	74	-23.85	291	157	H
2	* 2.370004	46.06	Pk	32	-26	52.06	-	-	74	-21.94	291	157	H
3	* 2.39	32.81	VA1T	32	-25.9	38.91	54	-15.09	-	-	291	157	H
4	* 2.389838	32.86	VA1T	32	-25.9	38.96	54	-15.04	-	-	291	157	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**

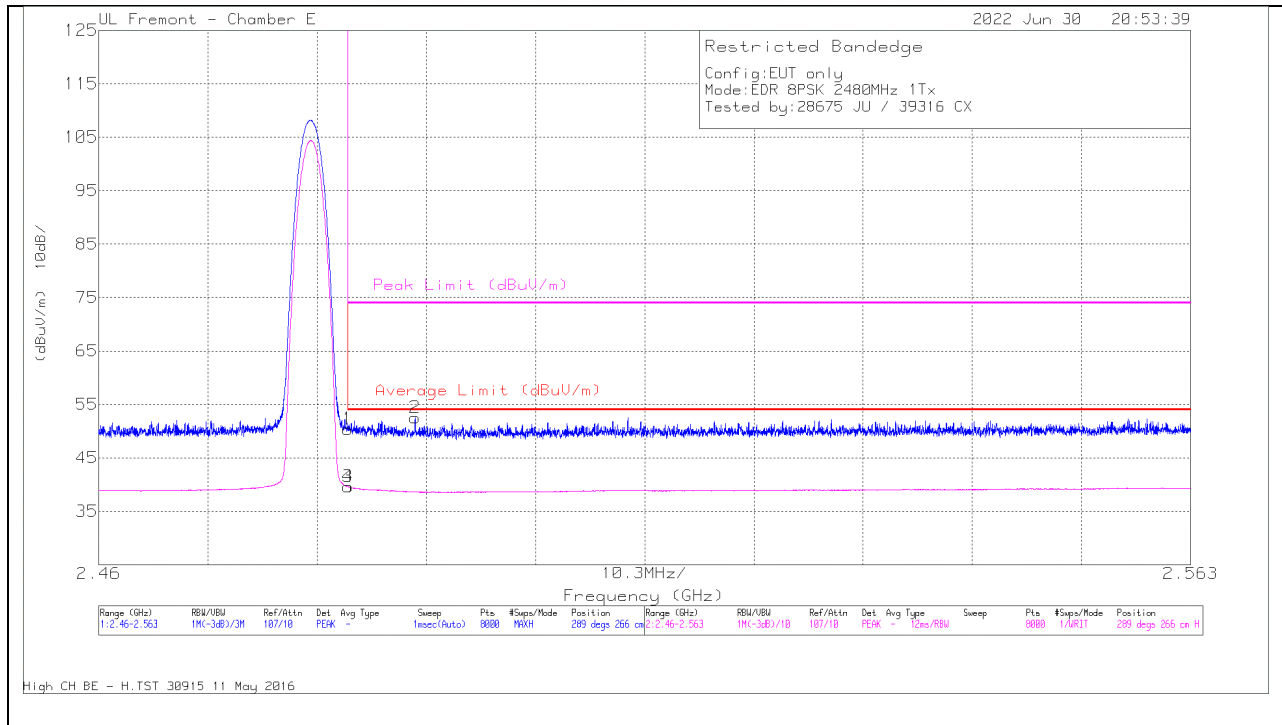


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cbl /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.08	Pk	32	-25.9	50.18	-	-	74	-23.82	230	141	V
2	* 2.389733	52.01	Pk	32	-25.9	58.11	-	-	74	-15.89	230	141	V
3	* 2.39	33.03	VA1T	32	-25.9	39.13	54	-14.87	-	-	230	141	V
4	* 2.389825	33.06	VA1T	32	-25.9	39.16	54	-14.84	-	-	230	141	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)**

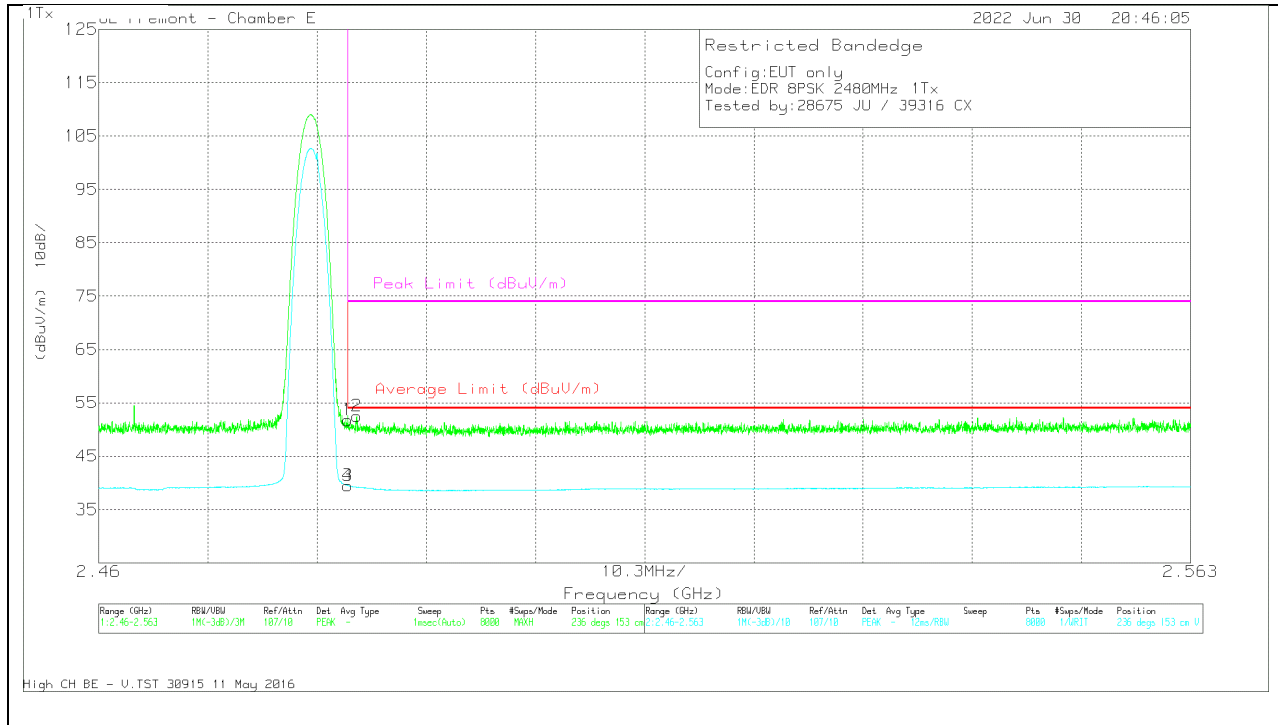
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cb I/Pad (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	44.45	Pk	31.8	-25.9	50.35	-	-	74	-23.65	289	266	H
2	* 2.489836	46.59	Pk	31.9	-26	52.49	-	-	74	-21.51	289	266	H
3	* 2.4835	33.67	VA1T	31.8	-25.9	39.57	54	-14.43	-	-	289	266	H
4	* 2.483513	33.68	VA1T	31.8	-25.9	39.58	54	-14.42	-	-	289	266	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average  $V_B=1/T_{on}$  where:  $T_{on}$  is transmit duration

**VERTICAL RESULT**



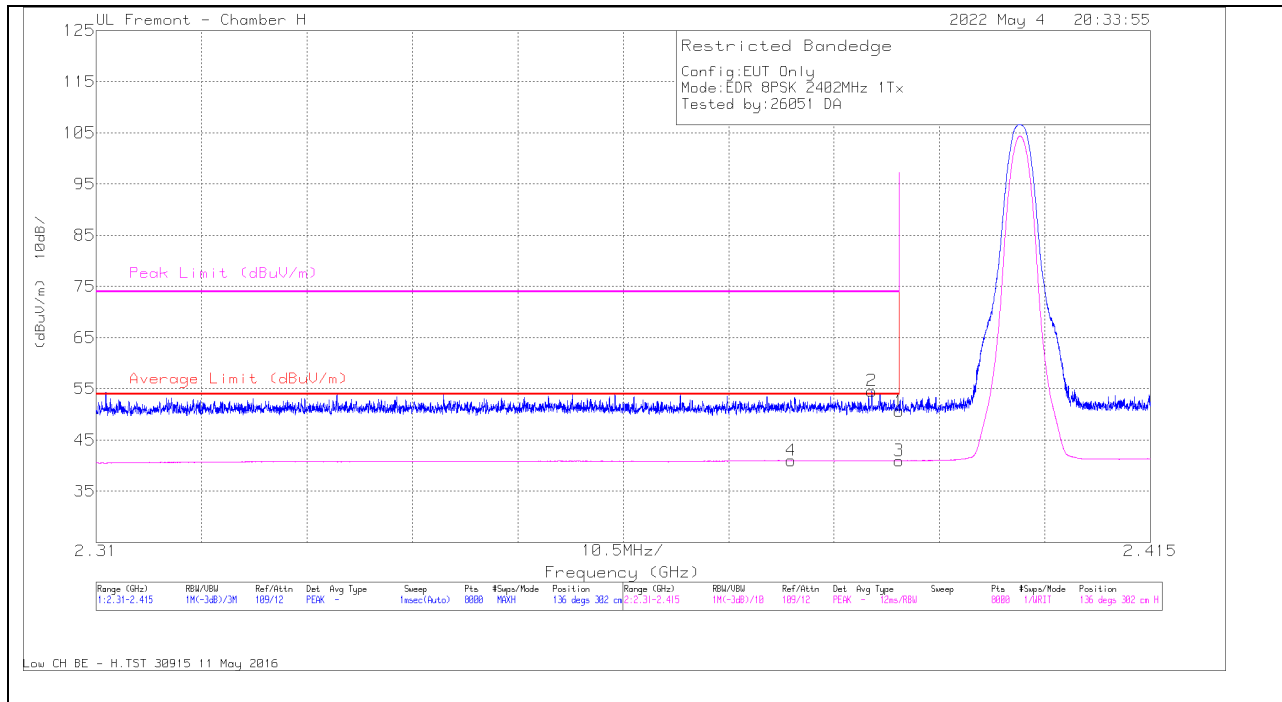
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cbl /Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	45.85	Pk	31.8	-25.9	51.75	-	-	74	-22.25	236	153	V
2	* 2.484325	46.61	Pk	31.9	-26	52.51	-	-	74	-21.49	236	153	V
3	* 2.4835	33.57	VA1T	31.8	-25.9	39.47	54	-14.53	-	-	236	153	V
4	* 2.483501	33.57	VA1T	31.8	-25.9	39.47	54	-14.53	-	-	236	153	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 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

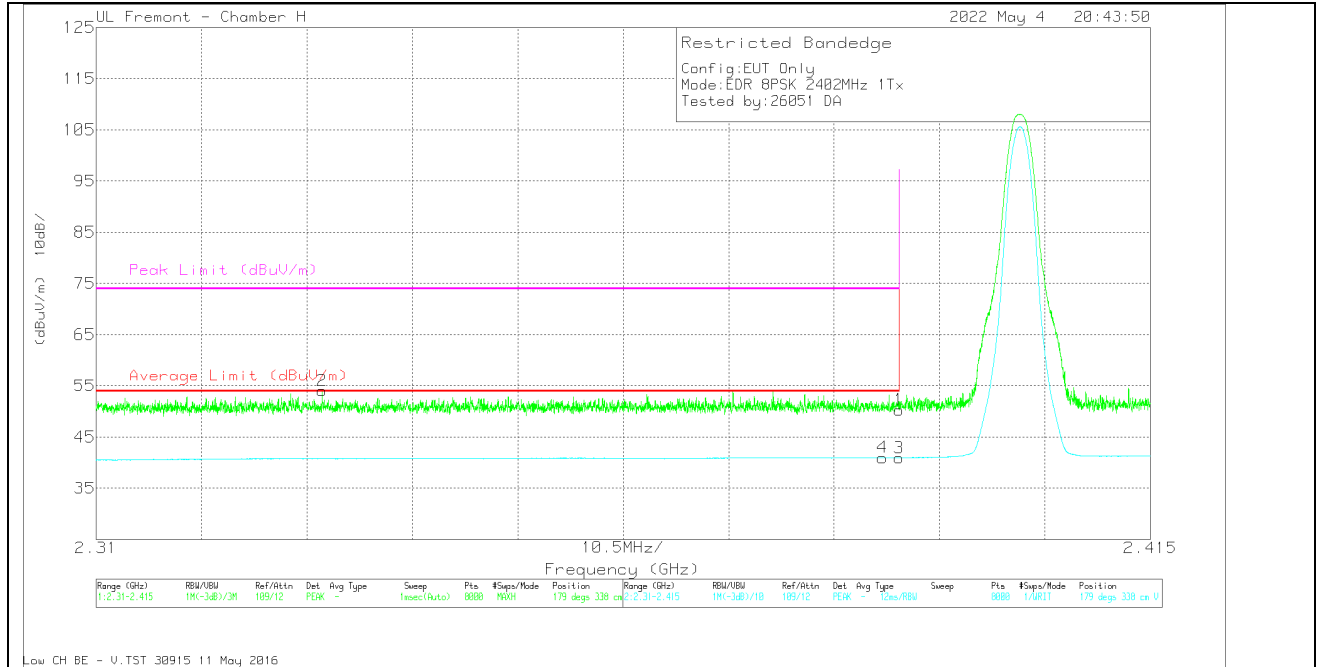


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/C bl/Pad (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	36.31	Pk	32	-17.7	50.61	-	-	74	-23.39	136	302	H
2	* 2.387252	40.4	Pk	32	-17.8	54.6	-	-	74	-19.4	136	302	H
3	* 2.39	26.66	VA1T	32	-17.7	40.96	54	-13.04	-	-	136	302	H
4	* 2.379232	26.81	VA1T	32	-17.8	41.01	54	-12.99	-	-	136	302	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



### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	35.99	Pk	32	-17.7	50.29	-	-	74	-23.71	179	338	V
2	* 2.3325	39.83	Pk	31.9	-17.7	54.03	-	-	74	-19.97	179	338	V
3	* 2.39	26.62	VA1T	32	-17.7	40.92	54	-13.08	-	-	179	338	V
4	* 2.388316	26.78	VA1T	32	-17.8	40.98	54	-13.02	-	-	179	338	V

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

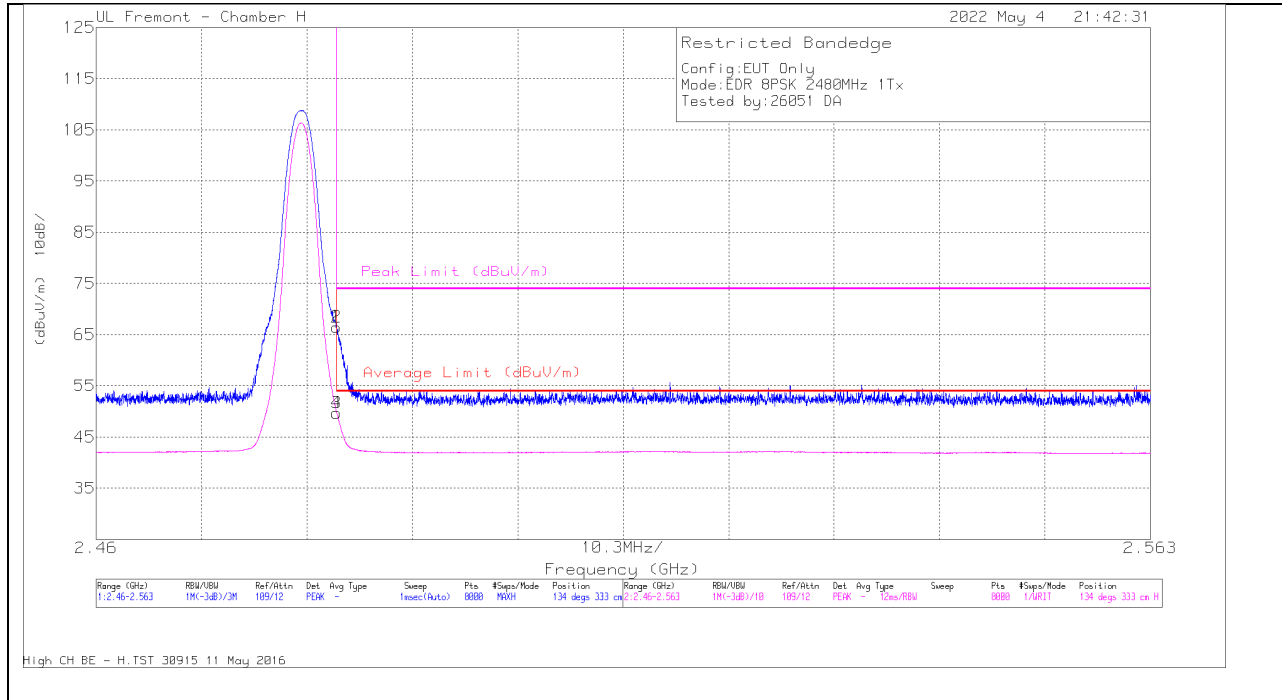
Pk - Peak detector

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



**BANDEGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**

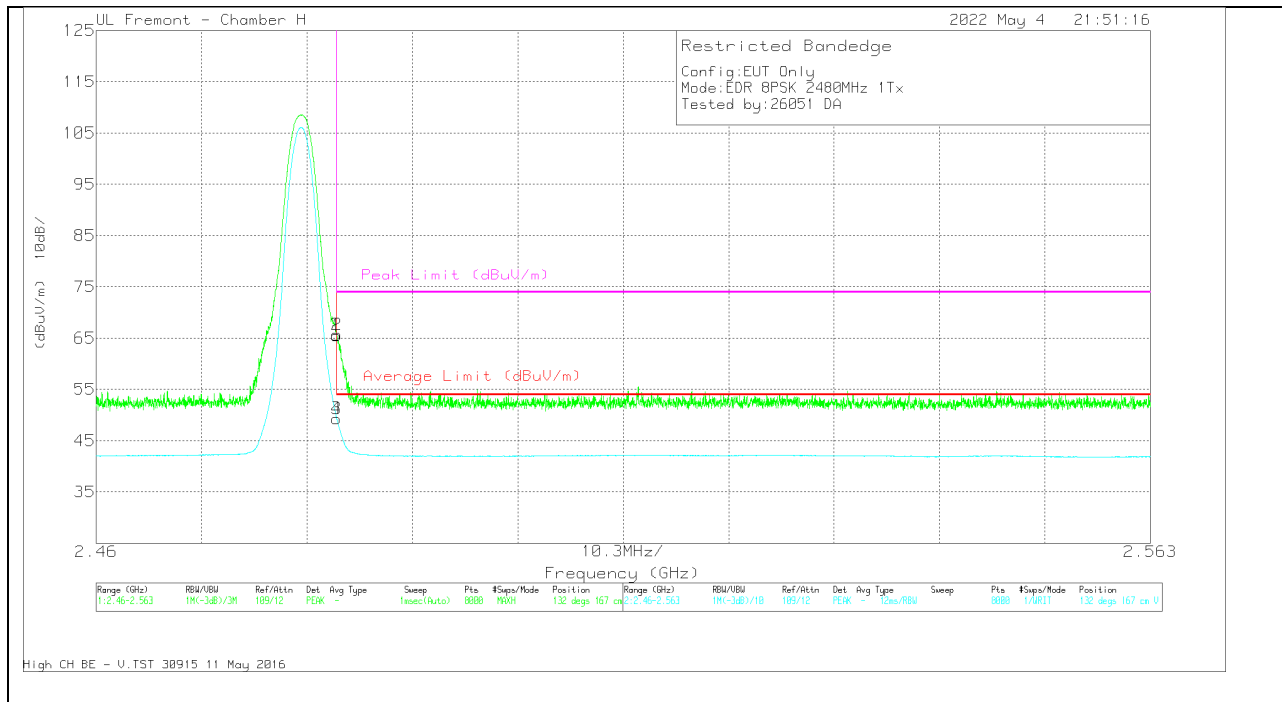


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	51.4	Pk	32.7	-17.6	66.5	-	-	74	-7.5	134	333	H
2	* 2.483501	51.39	Pk	32.7	-17.6	66.49	-	-	74	-7.51	134	333	H
3	* 2.4835	34.62	VA1T	32.7	-17.6	49.72	54	-4.28	-	-	134	333	H
4	* 2.483501	34.62	VA1T	32.7	-17.6	49.72	54	-4.28	-	-	134	333	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



### Trace Markers

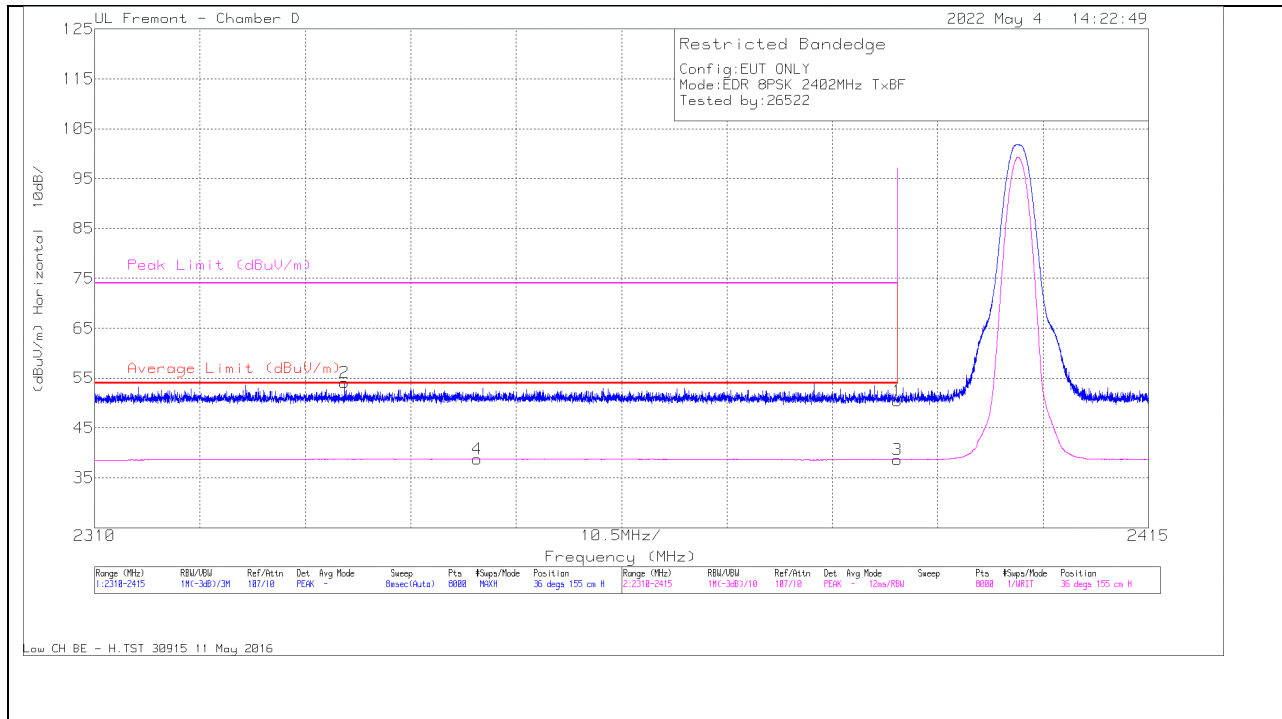
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	50.41	Pk	32.7	-17.6	65.51	-	-	74	-8.49	132	167	V
2	* 2.483513	50.57	Pk	32.7	-17.6	65.67	-	-	74	-8.33	132	167	V
3	* 2.4835	34.19	VA1T	32.7	-17.6	49.29	54	-4.71	-	-	132	167	V
4	* 2.483501	34.19	VA1T	32.7	-17.6	49.29	54	-4.71	-	-	132	167	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

### 10.1.4. HIGH POWER BASIC DATA RATE TXBF 8PSK MODULATION

#### BANDEDGE (LOW CHANNEL)

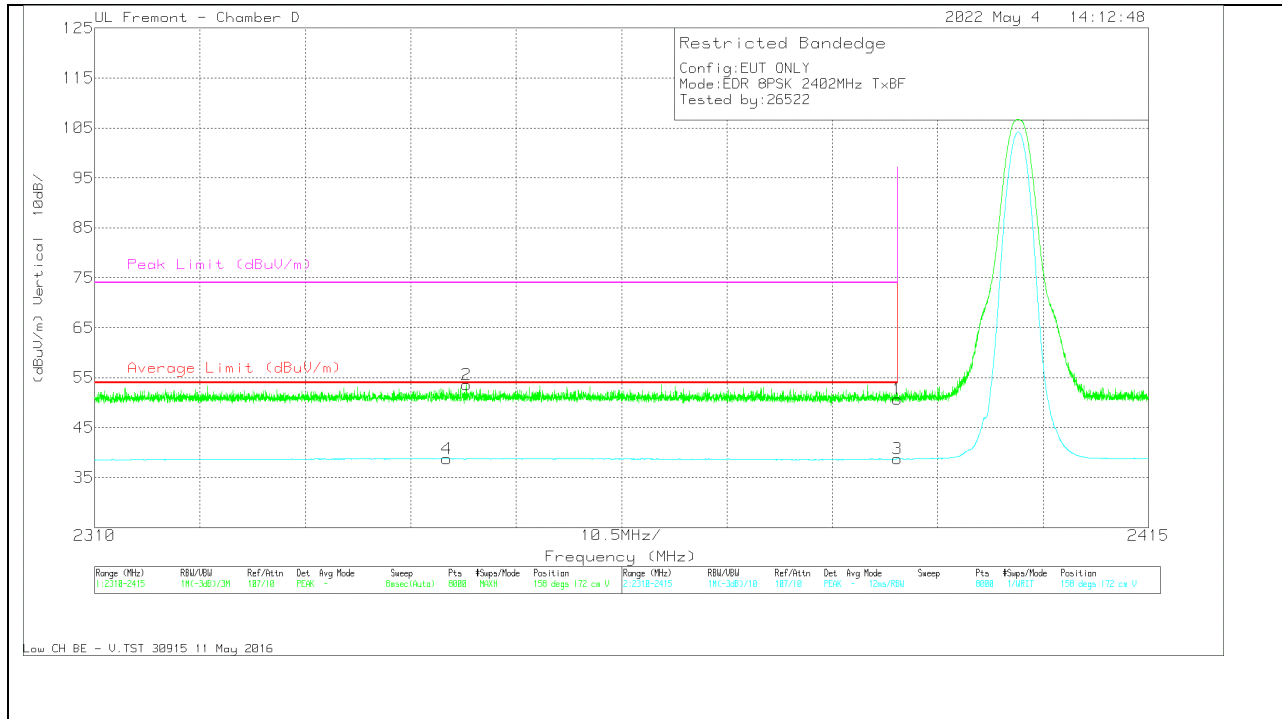
#### HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	Amp/Cbi/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	39.01	Pk	32.1	-20.7	50.41	-	-	74	-23.59	36	155	H
2	* 2334.902	42.64	Pk	32.3	-20.9	54.04	-	-	74	-19.96	36	155	H
3	* 2390	27.25	VA1T	32.1	-20.7	38.65	54	-15.35	-	-	36	155	H
4	* 2348.121	27.31	VA1T	32.3	-20.8	38.81	54	-15.19	-	-	36	155	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

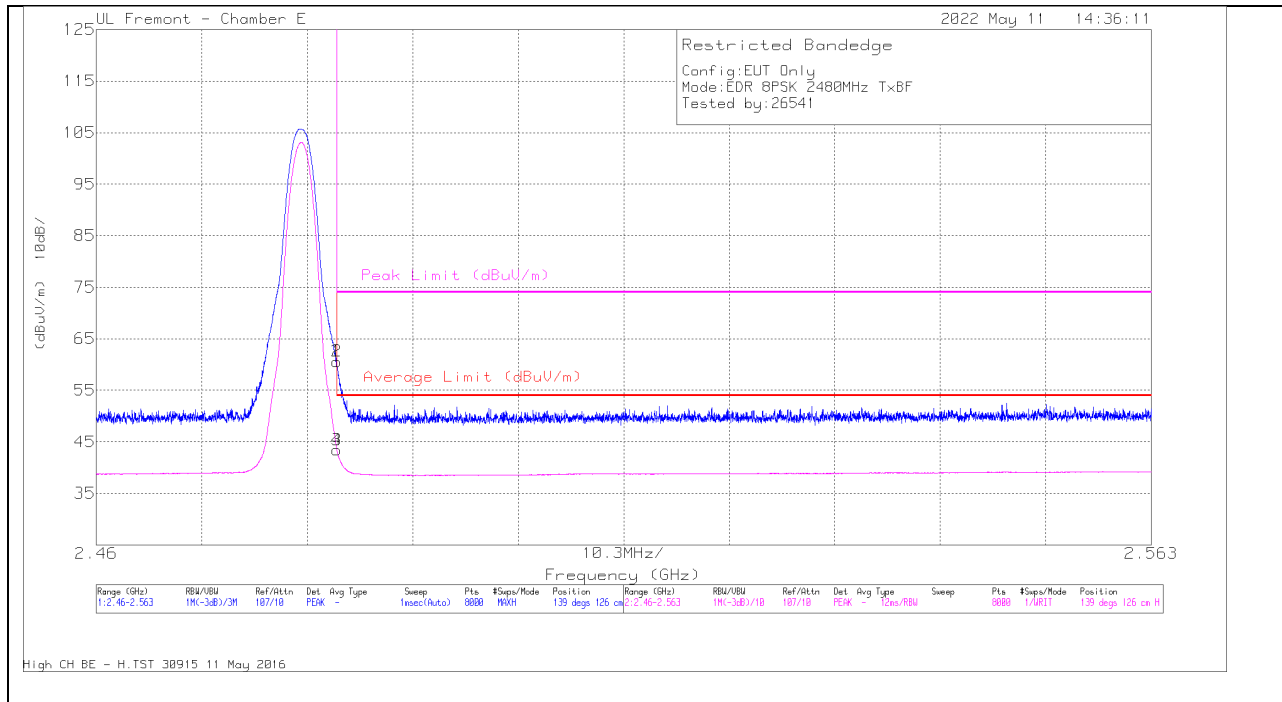


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2390	39.31	Pk	32.1	-20.7	50.71	-	-	74	-23.29	158	172	V
2	* 2347.044	42.12	Pk	32.3	-20.8	53.62	-	-	74	-20.38	158	172	V
3	* 2390	27.32	VA1T	32.1	-20.7	38.72	54	-15.28	-	-	158	172	V
4	* 2345.088	27.31	VA1T	32.3	-20.8	38.81	54	-15.19	-	-	158	172	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)**

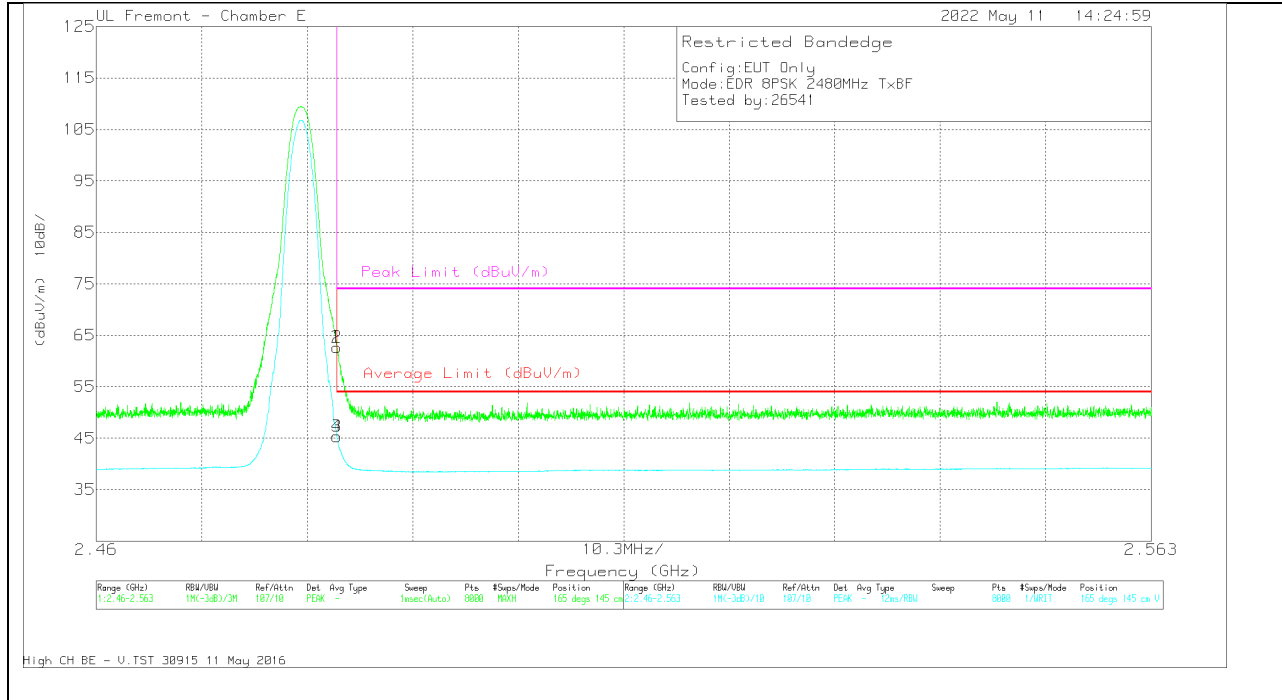
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (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	54.7	Pk	31.8	-25.9	60.6	-	-	74	-13.4	139	126	H
2	* 2.483501	54.71	Pk	31.8	-25.9	60.61	-	-	74	-13.39	139	126	H
3	* 2.4835	37.52	VA1T	31.8	-25.9	43.42	54	-10.58	-	-	139	126	H
4	* 2.483501	37.51	VA1T	31.8	-25.9	43.41	54	-10.59	-	-	139	126	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)	Amp/C bl/Pad (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	56.78	Pk	31.8	-25.9	62.68	-	-	74	-11.32	165	145	V
2	* 2.483501	56.75	Pk	31.8	-25.9	62.65	-	-	74	-11.35	165	145	V
3	* 2.4835	39.45	VA1T	31.8	-25.9	45.35	54	-8.65	-	-	165	145	V
4	* 2.483501	39.44	VA1T	31.8	-25.9	45.34	54	-8.66	-	-	165	145	V

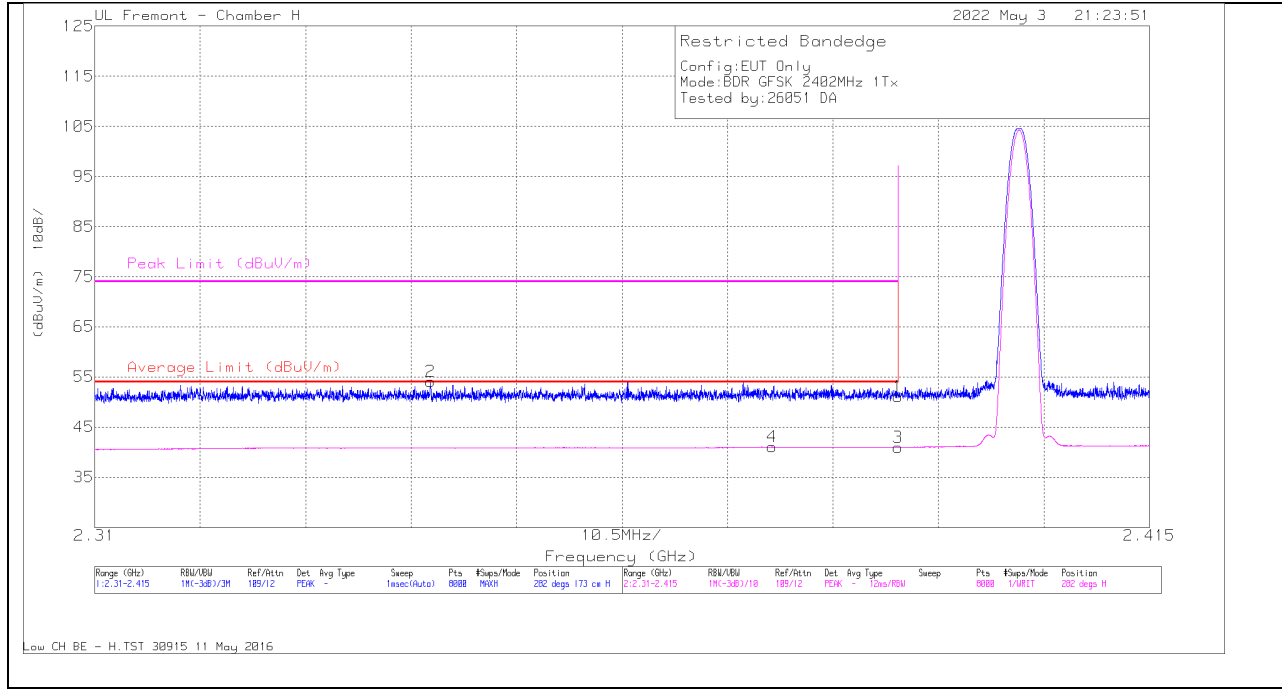
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

### 10.1.5. LOW POWER BASIC DATA RATE GFSK MODULATION

#### ANT 4

#### BANDEDGE (LOW CHANNEL)

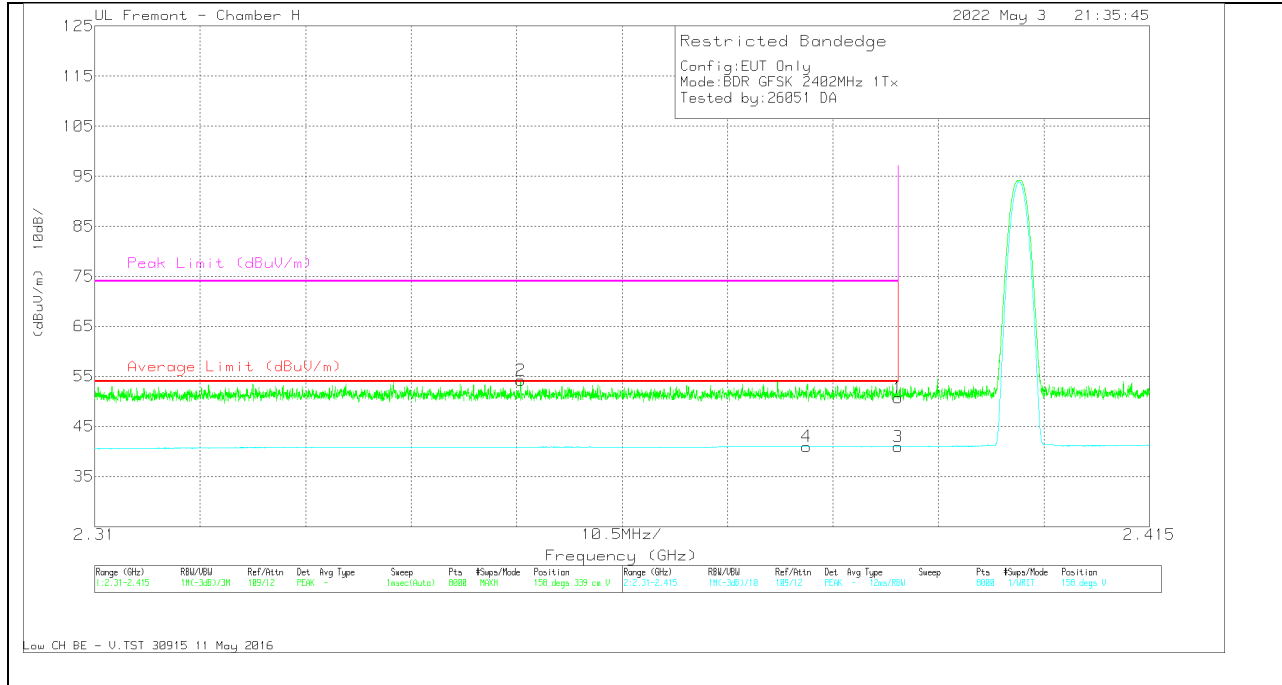
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	36.85	Pk	32	-17.7	51.15	-	-	74	-22.85	282	173	H
2	* 2.343448	40.02	Pk	31.8	-17.7	54.12	-	-	74	-19.88	282	173	H
3	* 2.39	26.67	VA1T	32	-17.7	40.97	54	-13.03	-	-	282	173	H
4	* 2.37742	26.74	VA1T	32	-17.7	41.04	54	-12.96	-	-	282	173	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



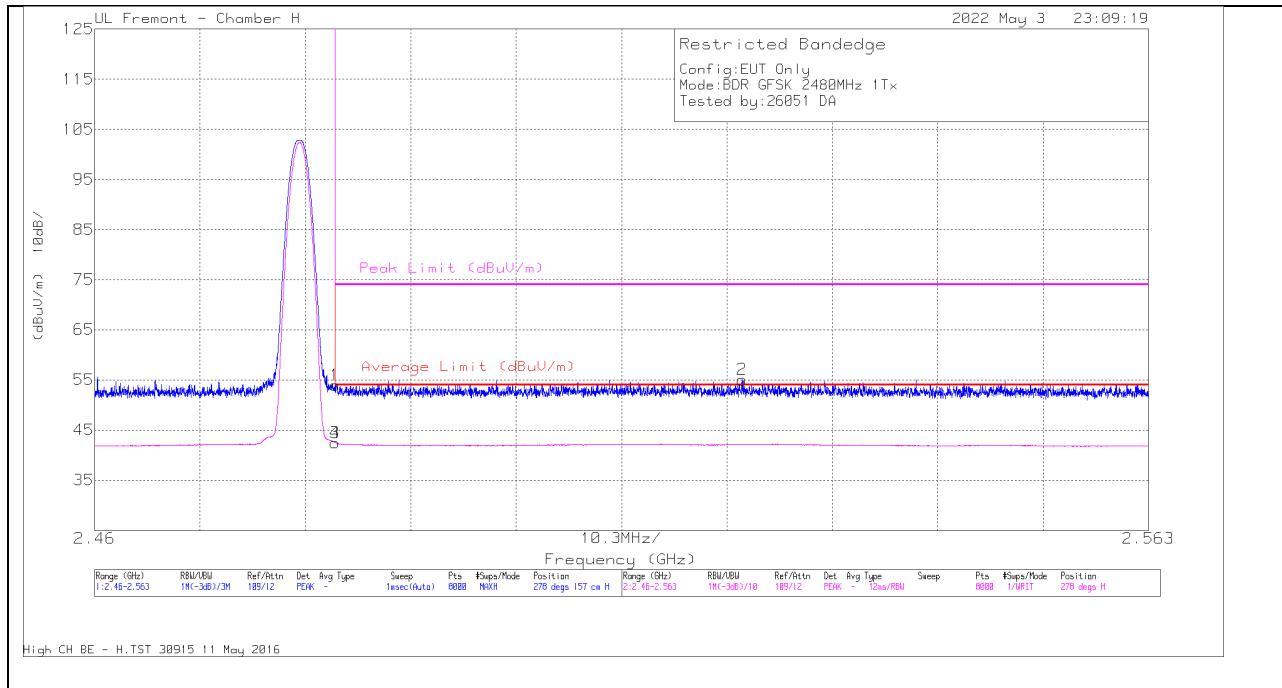
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbi/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.37	Pk	32	-17.7	50.67	-	-	74	-23.33	158	339	V
2	* 2.3524	40.18	Pk	31.9	-17.8	54.28	-	-	74	-19.72	158	339	V
3	* 2.39	26.68	VA1T	32	-17.7	40.98	54	-13.02	-	-	158	339	V
4	* 2.380873	26.82	VA1T	32	-17.8	41.02	54	-12.98	-	-	158	339	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**



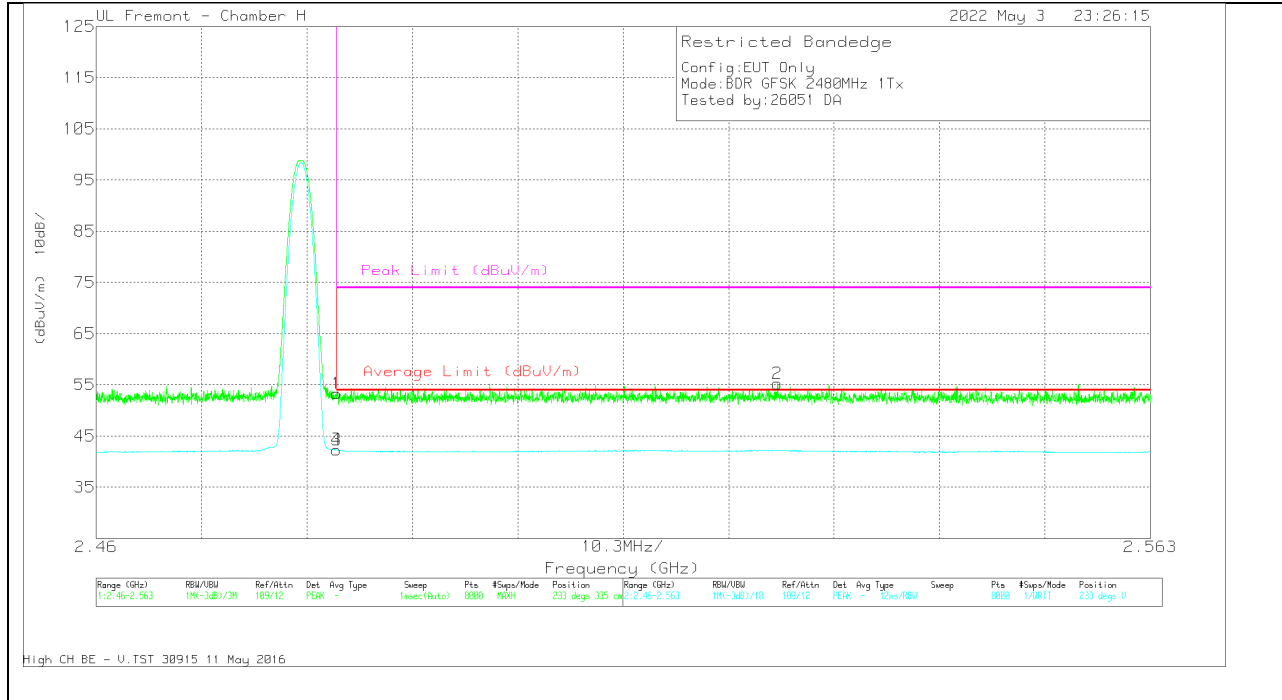
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	38.93	Pk	32.7	-17.6	54.03	-	-	74	-19.97	278	157	H
3	* 2.4835	27.41	VA1T	32.7	-17.6	42.51	54	-11.49	-	-	278	157	H
4	* 2.483501	27.41	VA1T	32.7	-17.6	42.51	54	-11.49	-	-	278	157	H
2	2.523265	39.94	Pk	32.8	-17.7	55.04	-	-	74	-18.96	278	157	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 80430 (dB/m)	Amp/Cbl/Pad (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	38.22	Pk	32.7	-17.6	53.32	-	-	74	-20.68	233	335	V
3	* 2.4835	27.18	VA1T	32.7	-17.6	42.28	54	-11.72	-	-	233	335	V
4	* 2.483501	27.18	VA1T	32.7	-17.6	42.28	54	-11.72	-	-	233	335	V
2	2.526574	40.04	Pk	32.8	-17.6	55.24	-	-	74	-18.76	233	335	V

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

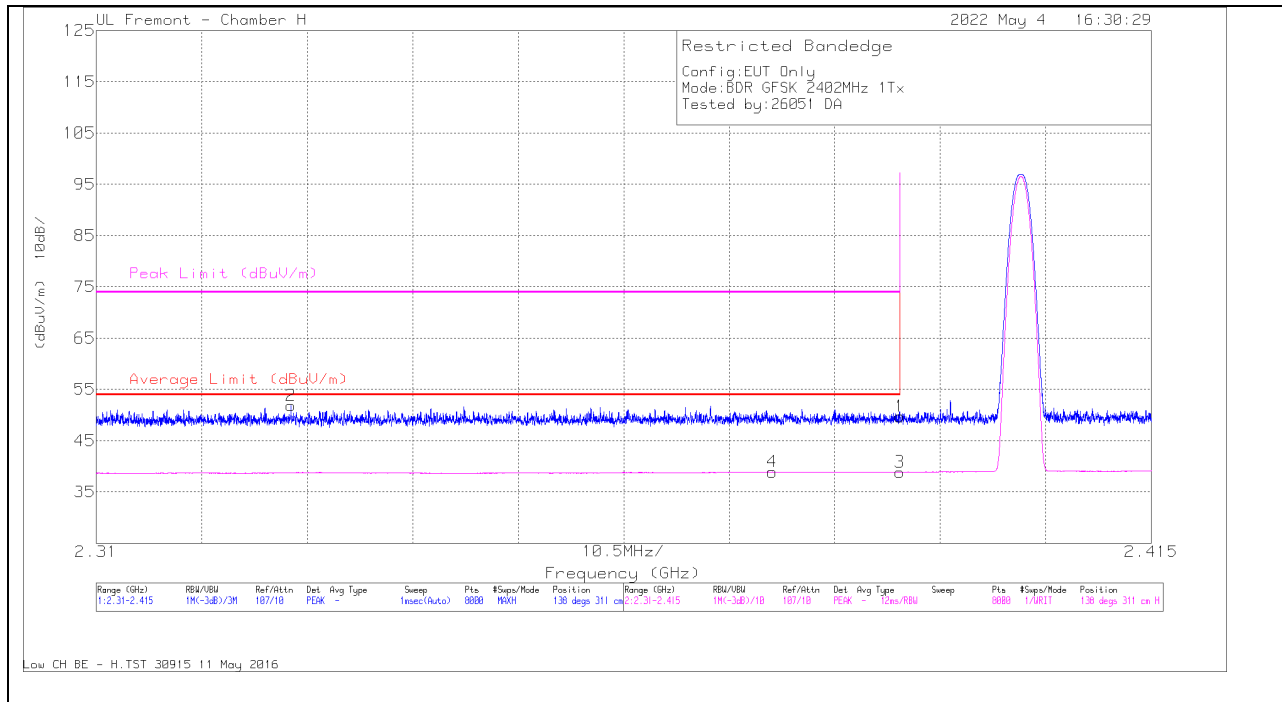
Pk - Peak detector

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

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

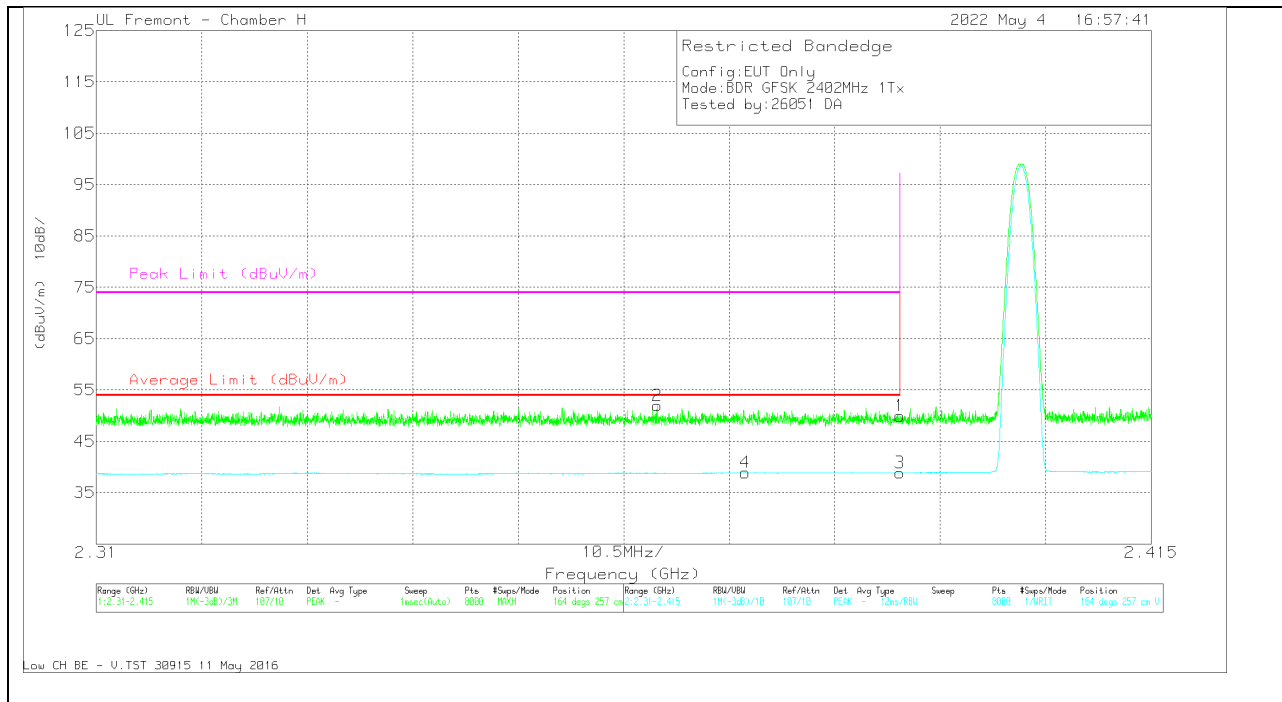
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.43	Pk	32	-27.7	49.73	-	-	74	-24.27	138	311	H
2	* 2.329375	47.52	Pk	31.9	-27.6	51.82	-	-	74	-22.18	138	311	H
3	* 2.39	34.56	VA1T	32	-27.7	38.86	54	-15.14	-	-	138	311	H
4	* 2.377289	34.52	VA1T	32	-27.6	38.92	54	-15.08	-	-	138	311	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



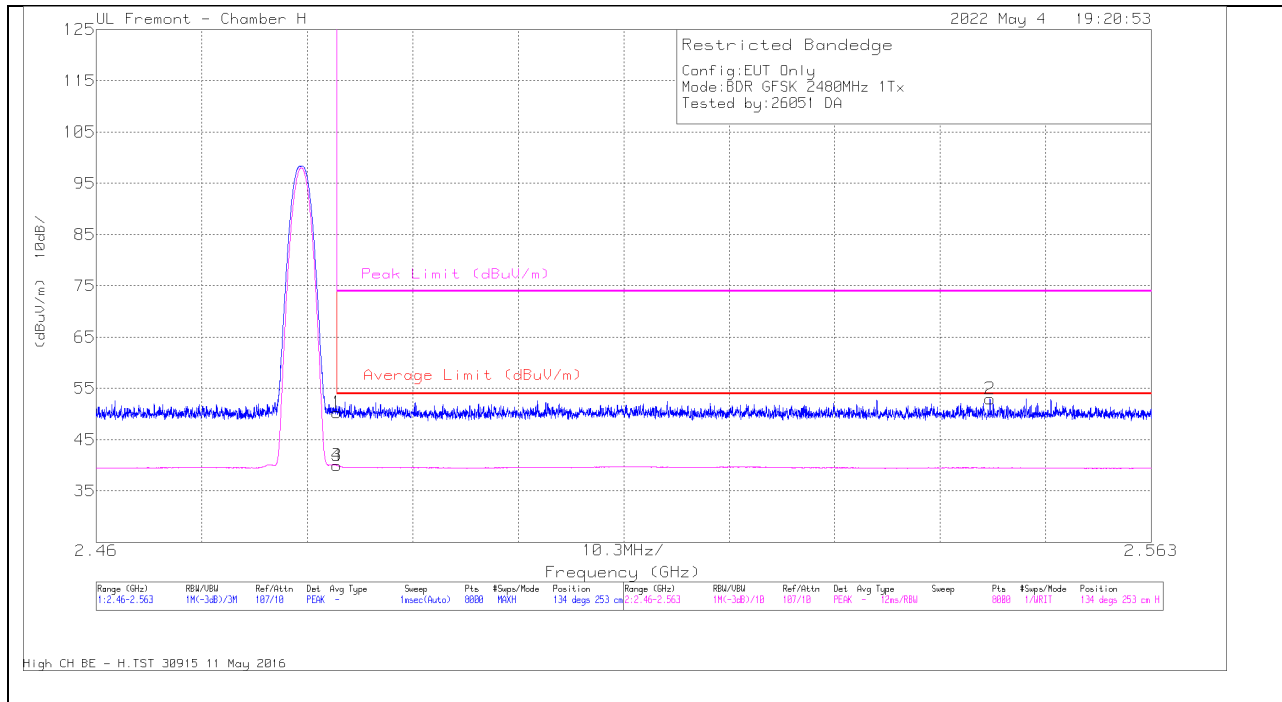
### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	45.66	PK	32	-27.7	49.96	-	-	74	-24.04	164	257	V
2	* 2.365829	47.75	PK	31.9	-27.7	51.95	-	-	74	-22.05	164	257	V
3	* 2.39	34.55	VA1T	32	-27.7	38.85	54	-15.15	-	-	164	257	V
4	* 2.374572	34.52	VA1T	32	-27.6	38.92	54	-15.08	-	-	164	257	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**

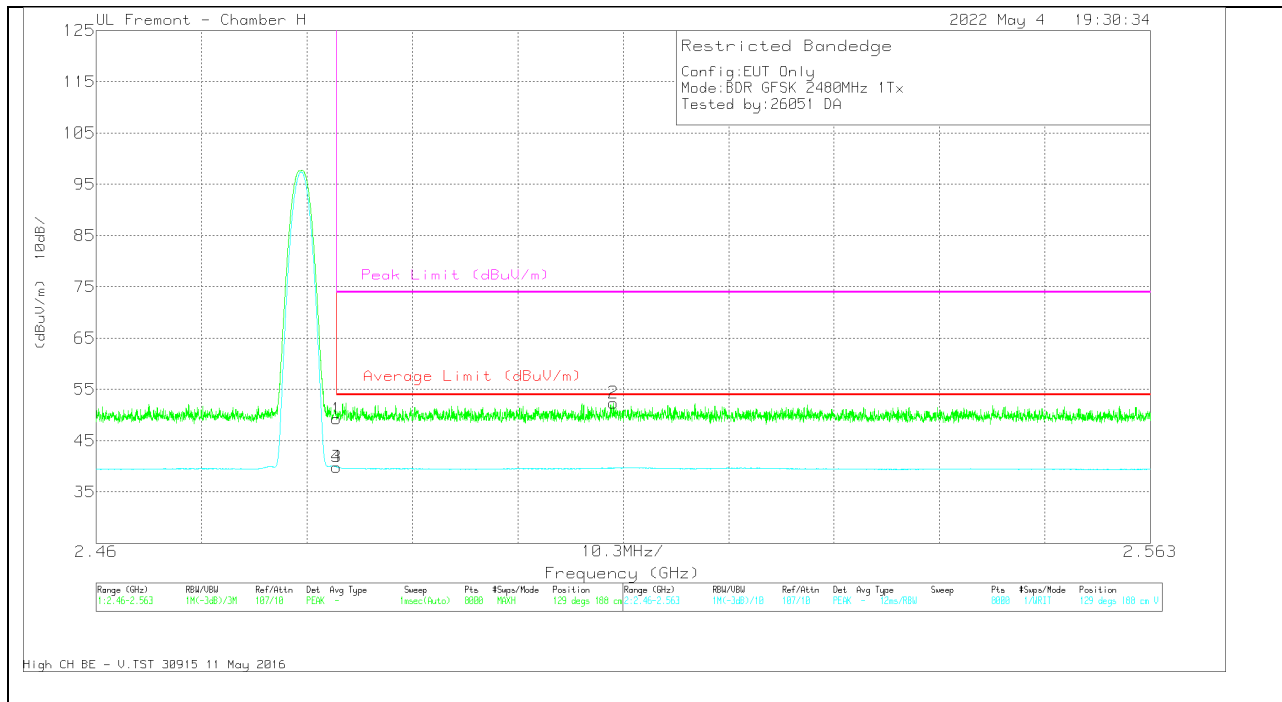


**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	45.36	Pk	32.7	-27.8	50.26	-	-	74	-23.74	134	253	H
3	* 2.4835	35.09	VA1T	32.7	-27.8	39.99	54	-14.01	-	-	134	253	H
4	* 2.483501	35.09	VA1T	32.7	-27.8	39.99	54	-14.01	-	-	134	253	H
2	2.547255	48.17	Pk	32.6	-27.8	52.97	-	-	74	-21.03	134	253	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



### Trace Markers

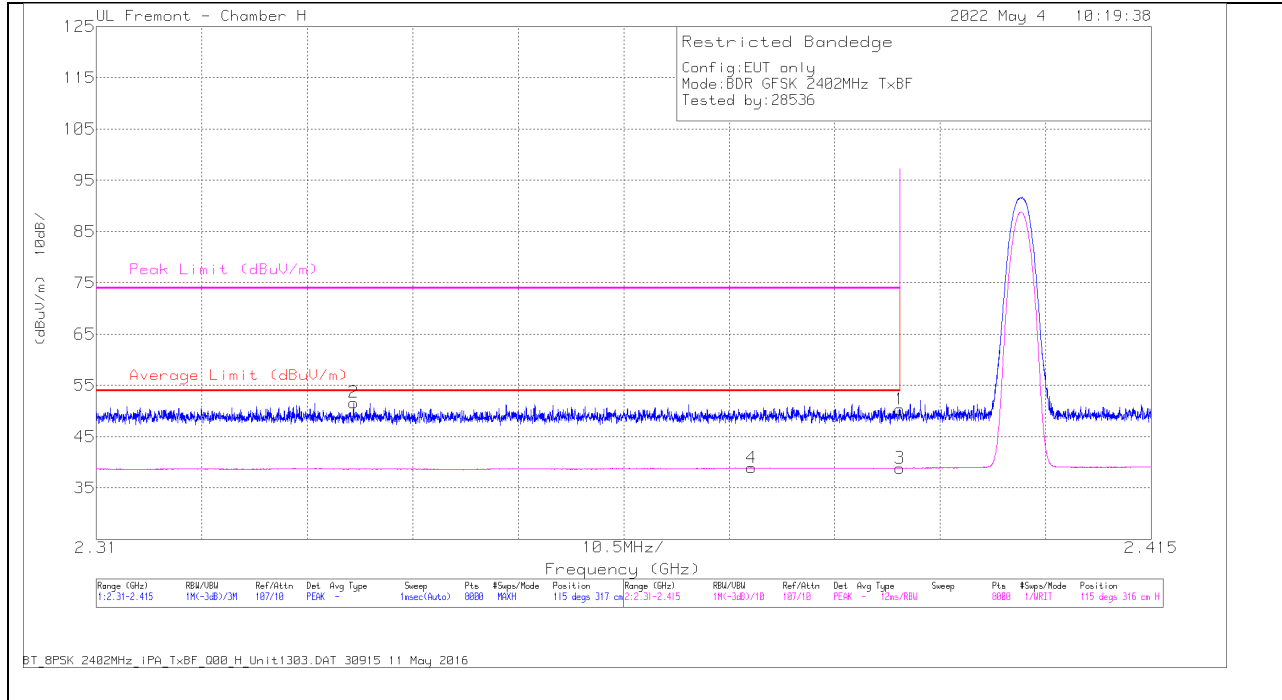
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	44.34	Pk	32.7	-27.8	49.24	-	-	74	-24.76	129	188	V
3	* 2.4835	34.97	VA1T	32.7	-27.8	39.87	54	-14.13	-	-	129	188	V
4	* 2.483501	34.97	VA1T	32.7	-27.8	39.87	54	-14.13	-	-	129	188	V
2	2.510529	47.38	Pk	32.8	-27.8	52.38	-	-	74	-21.62	129	188	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. LOW POWER BASIC DATA RATE TXBF GFSK MODULATION

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



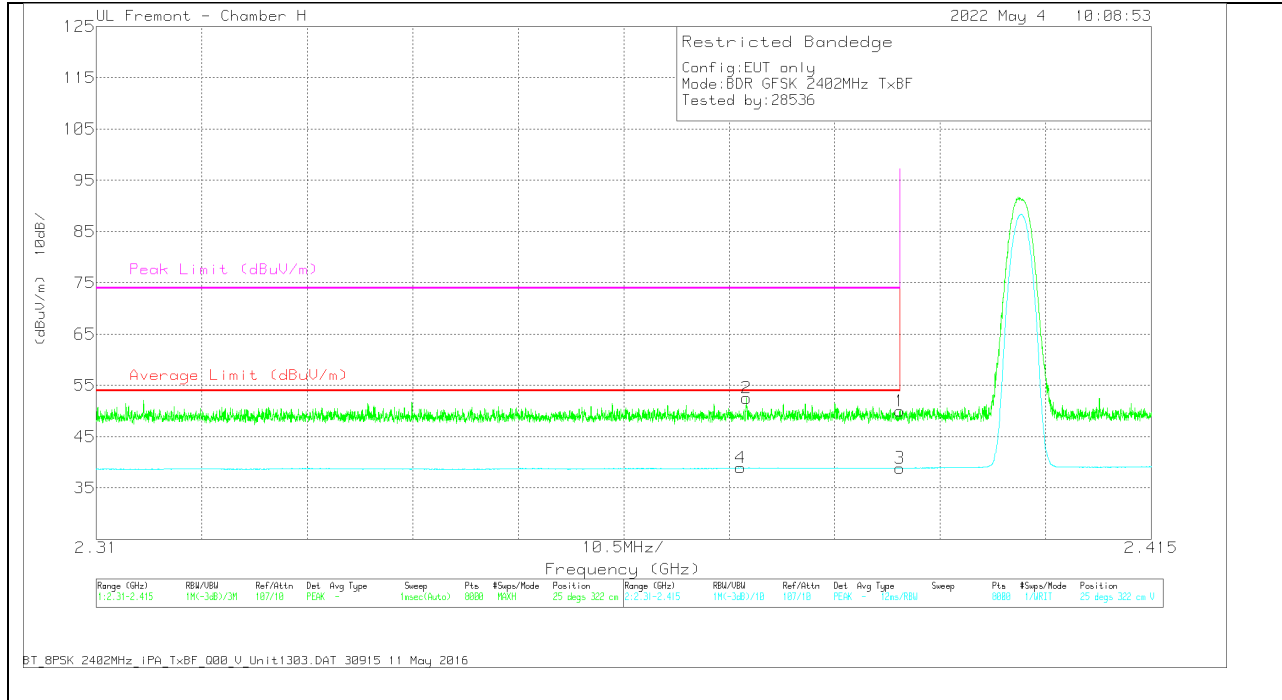
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbi/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.335611	47.45	Pk	31.9	-27.7	51.65	-	-	74	-22.35	115	317	H
4	* 2.375202	34.54	VA1T	32	-27.6	38.94	54	-15.06	-	-	115	316	H
1	* 2.39	46.03	Pk	32	-27.7	50.33	-	-	74	-23.67	115	317	H
3	* 2.39	34.58	VA1T	32	-27.7	38.88	54	-15.12	-	-	115	316	H

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

Pk - Peak detector

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

### VERTICAL RESULT



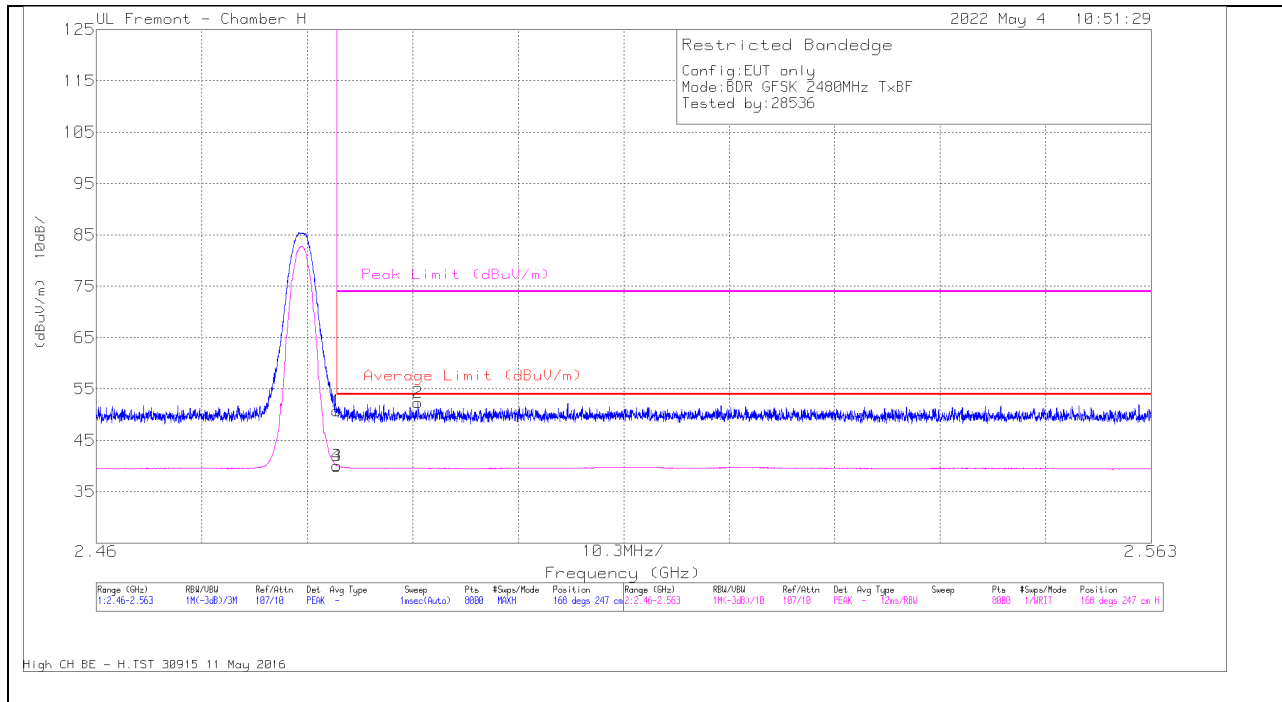
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.374125	34.53	VA1T	32	-27.6	38.93	54	-15.07	-	-	25	322	V
2	* 2.374716	48.14	Pk	32	-27.6	52.54	-	-	74	-21.46	25	322	V
1	* 2.39	45.7	Pk	32	-27.7	50	-	-	74	-24	25	322	V
3	* 2.39	34.55	VA1T	32	-27.7	38.85	54	-15.15	-	-	25	322	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)**

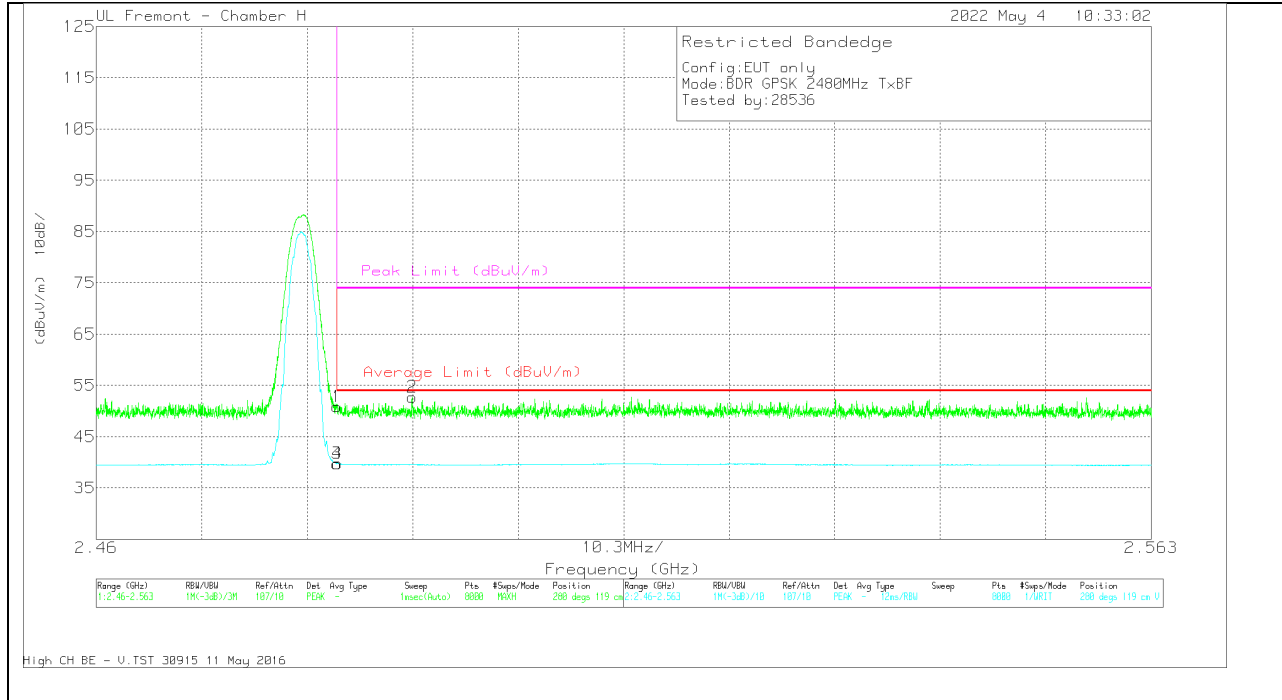
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/C bl/Pad (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	45.82	Pk	32.7	-27.8	50.72	-	-	74	-23.28	168	247	H
3	* 2.4835	35.13	VA1T	32.7	-27.8	40.03	54	-13.97	-	-	168	247	H
4	* 2.483501	35.13	VA1T	32.7	-27.8	40.03	54	-13.97	-	-	168	247	H
2	* 2.491407	47.42	Pk	32.7	-27.8	52.32	-	-	74	-21.68	168	247	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 80430 (dB/m)	Amp/Cbl/Pad (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	45.95	Pk	32.7	-27.8	50.85	-	-	74	-23.15	280	119	V
3	* 2.4835	34.86	VA1T	32.7	-27.8	39.76	54	-14.24	-	-	280	119	V
4	* 2.48352	34.88	VA1T	32.7	-27.8	39.78	54	-14.22	-	-	280	119	V
2	* 2.49084	47.81	Pk	32.7	-27.8	52.71	-	-	74	-21.29	280	119	V

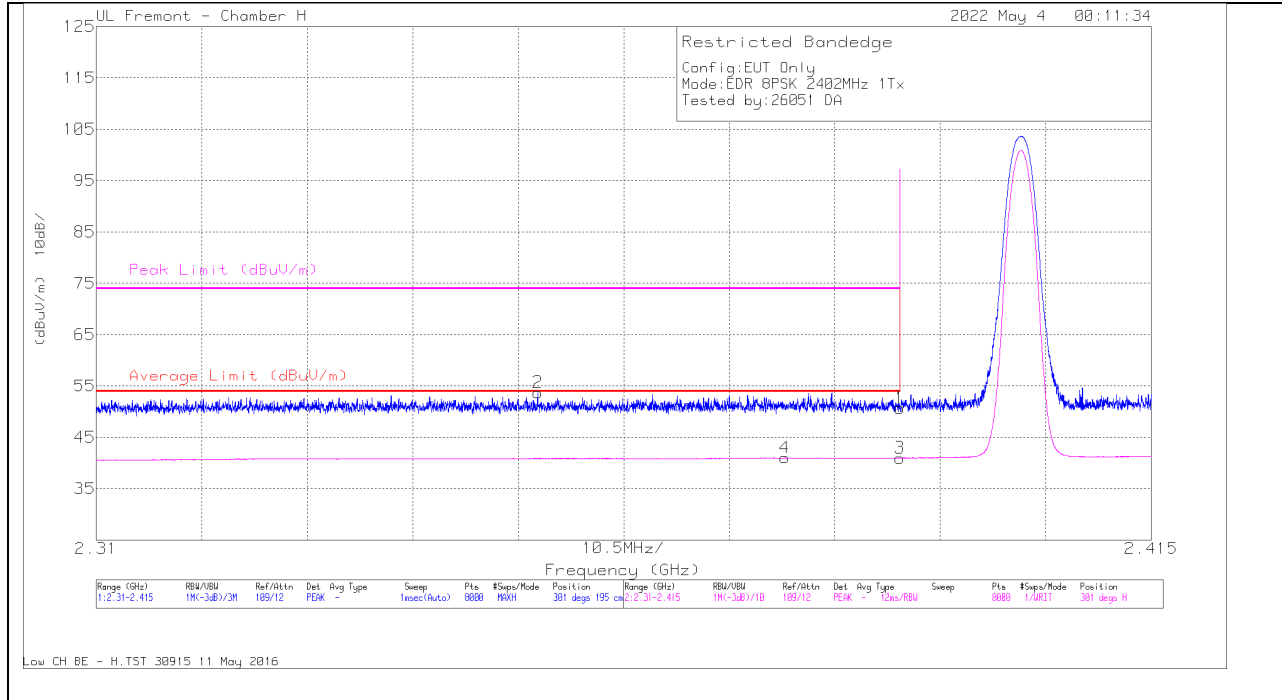
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

# 10.1.7. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

ANT 4

BANDEDGE (LOW CHANNEL)

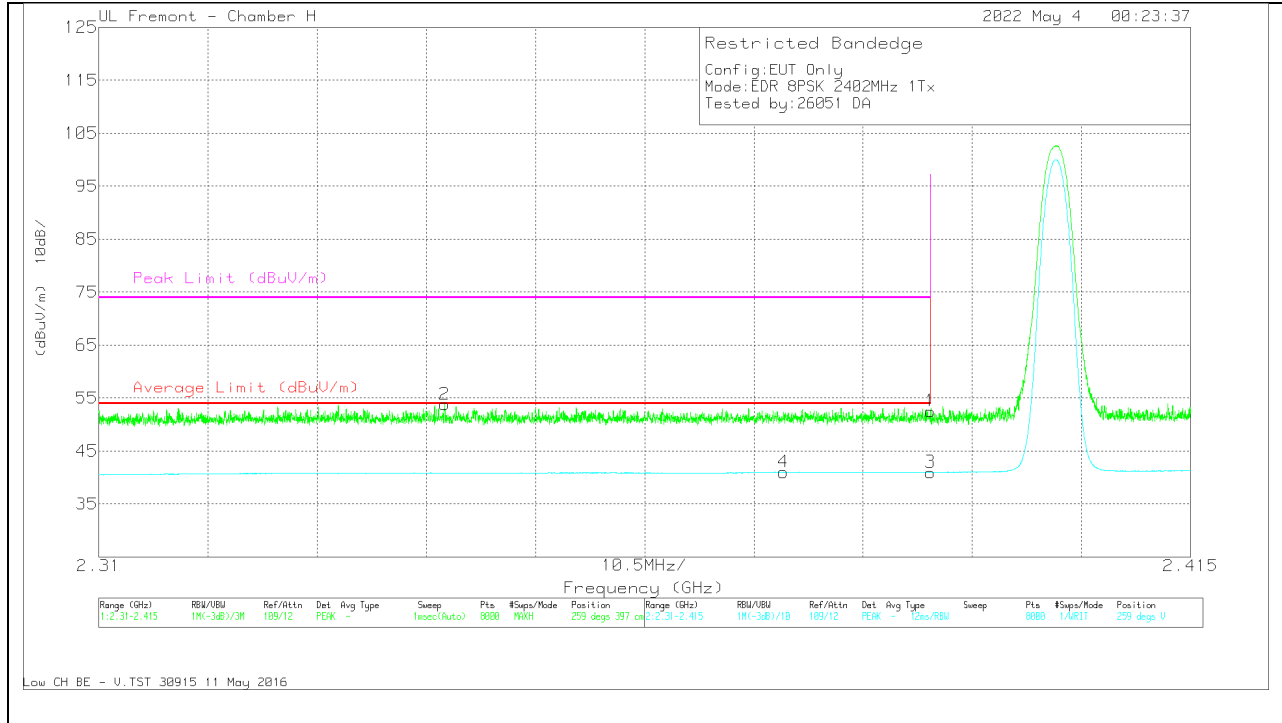
## HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (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	36.4	Pk	32	-17.7	50.7	-	-	74	-23.3	301	195	H
2	* 2.353936	39.6	Pk	31.9	-17.8	53.7	-	-	74	-20.3	301	195	H
3	* 2.39	26.67	VA1T	32	-17.7	40.97	54	-13.03	-	-	301	195	H
4	* 2.378549	26.72	VA1T	32	-17.7	41.02	54	-12.98	-	-	301	195	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 80430 (dB/m)	Amp/Cbl/Pad (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	38.22	Pk	32	-17.7	52.52	-	-	74	-21.48	259	397	V
2	* 2.343264	39.68	Pk	31.8	-17.7	53.78	-	-	74	-20.22	259	397	V
3	* 2.39	26.66	VA1T	32	-17.7	40.96	54	-13.04	-	-	259	397	V
4	* 2.375845	26.71	VA1T	32	-17.7	41.01	54	-12.99	-	-	259	397	V

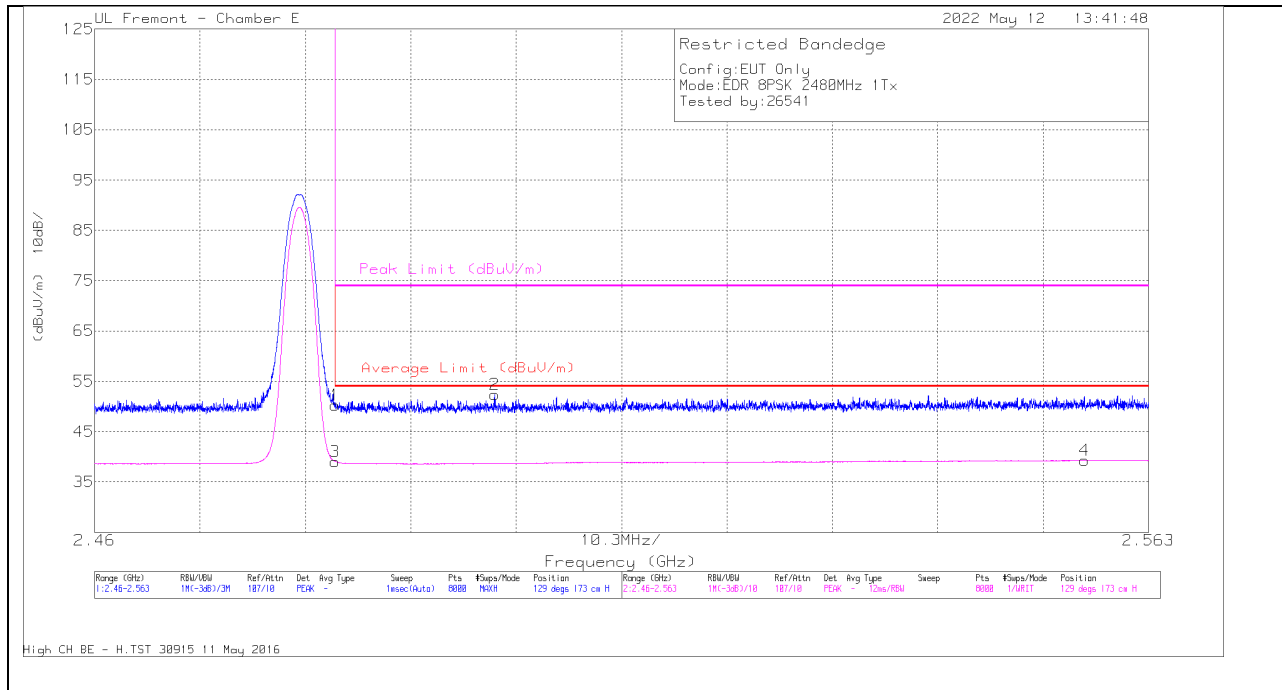
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)**

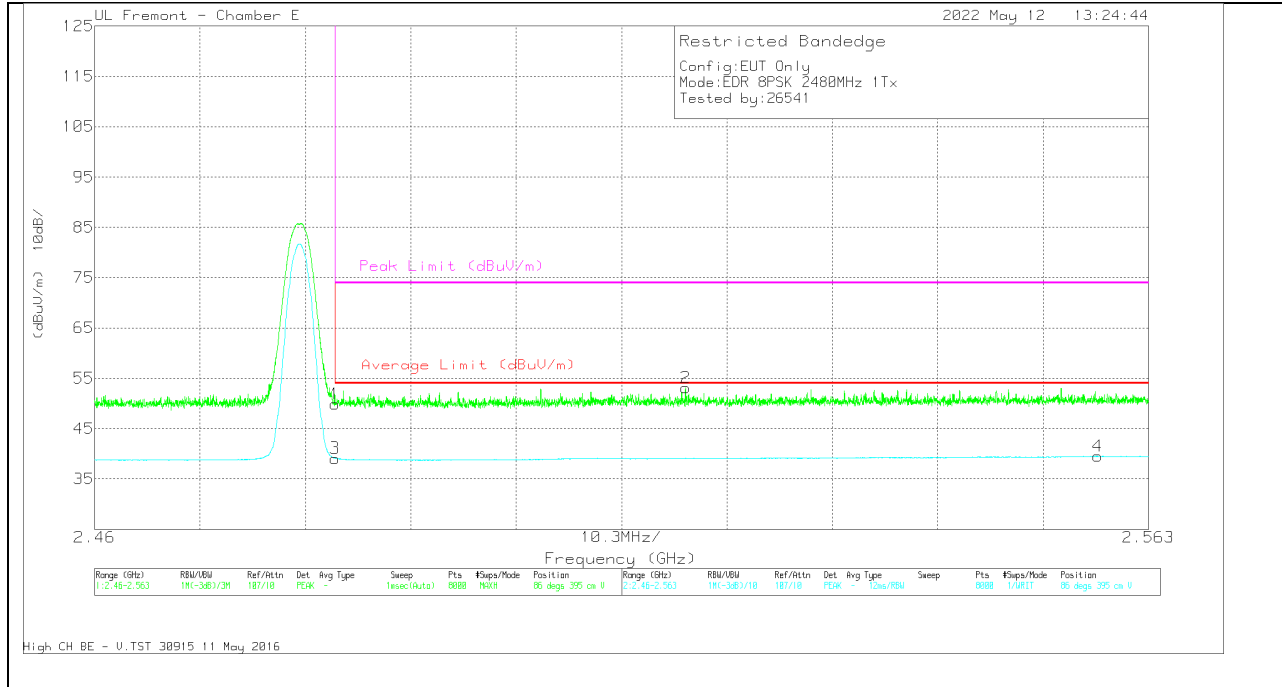
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (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	44.34	Pk	31.8	-25.9	50.24	-	-	74	-23.76	129	173	H
2	* 2.49095	46.44	Pk	31.9	-26	52.34	-	-	74	-21.66	129	173	H
3	* 2.4835	33.18	VA1T	31.8	-25.9	39.08	54	-14.92	-	-	129	173	H
4	2.556784	32.84	VA1T	32.4	-25.9	39.34	54	-14.66	-	-	129	173	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)	Amp/Cbl/Pad (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	44.01	Pk	31.8	-25.9	49.91	-	-	74	-24.09	86	395	V
3	* 2.4835	33.2	VA1T	31.8	-25.9	39.1	54	-14.9	-	-	86	395	V
2	2.51774	46.96	Pk	32.1	-25.9	53.16	-	-	74	-20.84	86	395	V
4	2.55802	32.99	VA1T	32.4	-25.9	39.49	54	-14.51	-	-	86	395	V

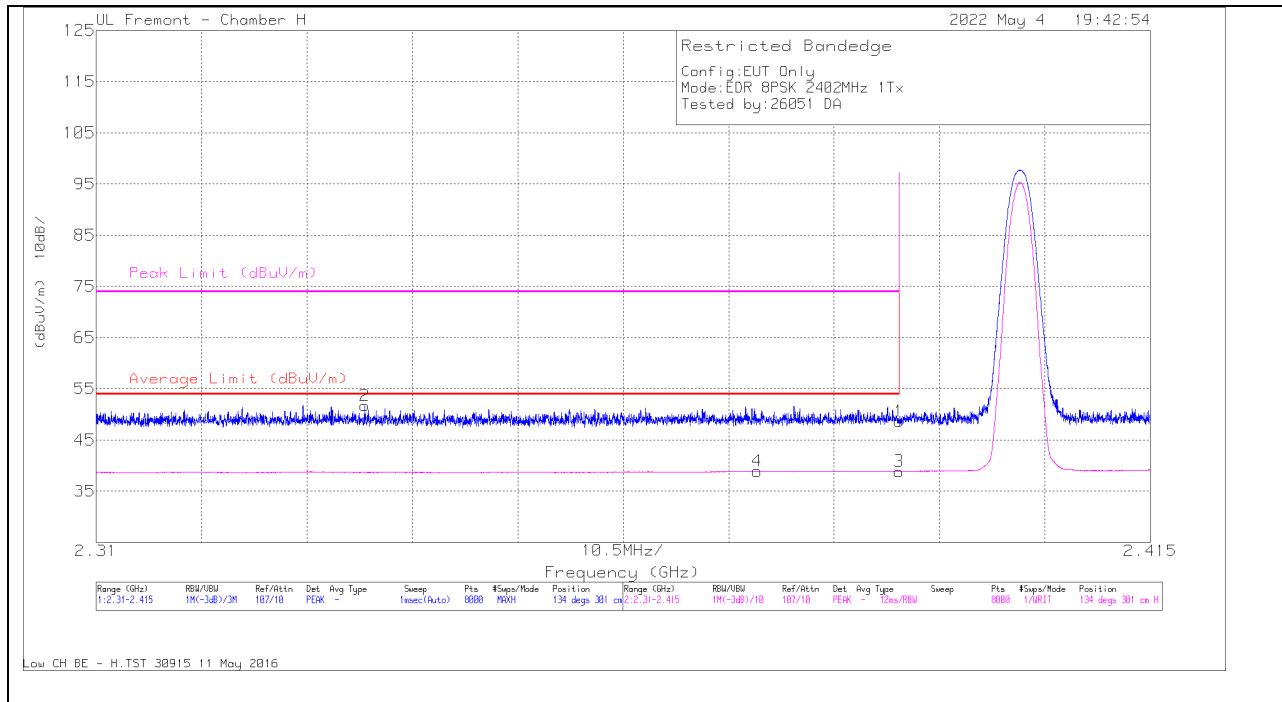
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

\* - 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 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

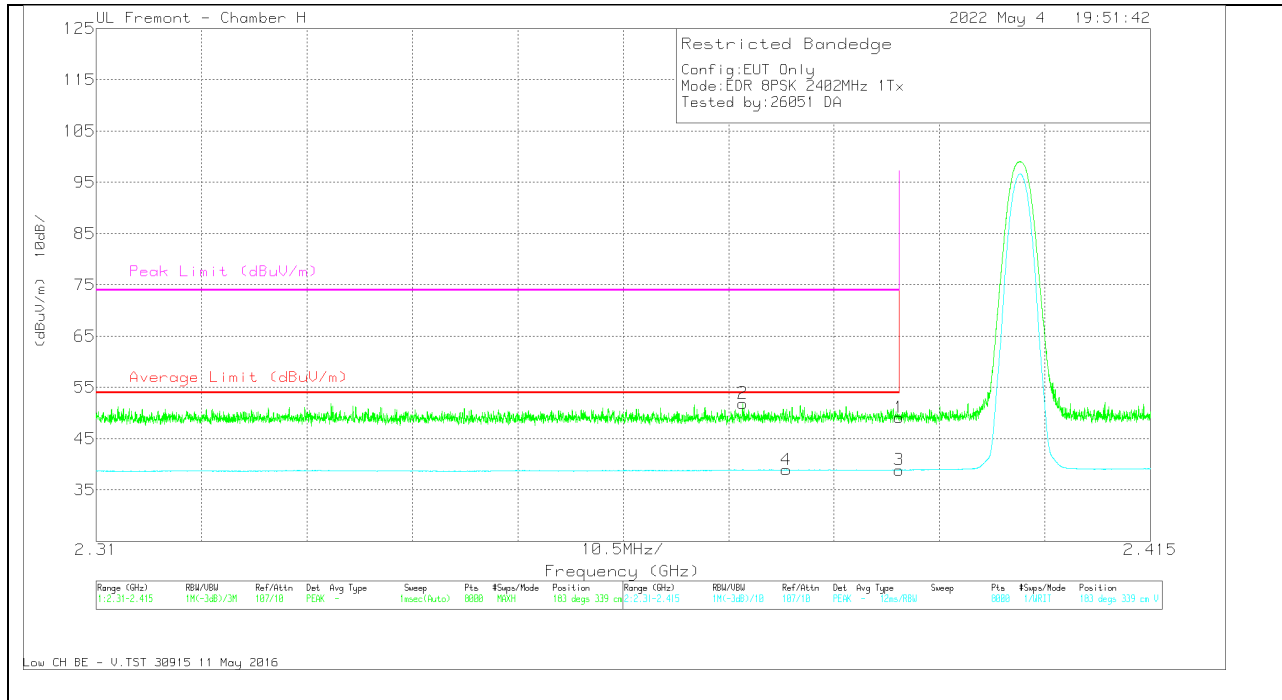
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.336766	47.51	Pk	31.9	-27.7	51.71	-	-	74	-22.29	134	301	H
4	* 2.375858	34.52	VA1T	32	-27.6	38.92	54	-15.08	-	-	134	301	H
1	* 2.39	44.34	Pk	32	-27.7	48.64	-	-	74	-25.36	134	301	H
3	* 2.39	34.55	VA1T	32	-27.7	38.85	54	-15.15	-	-	134	301	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



### Trace Markers

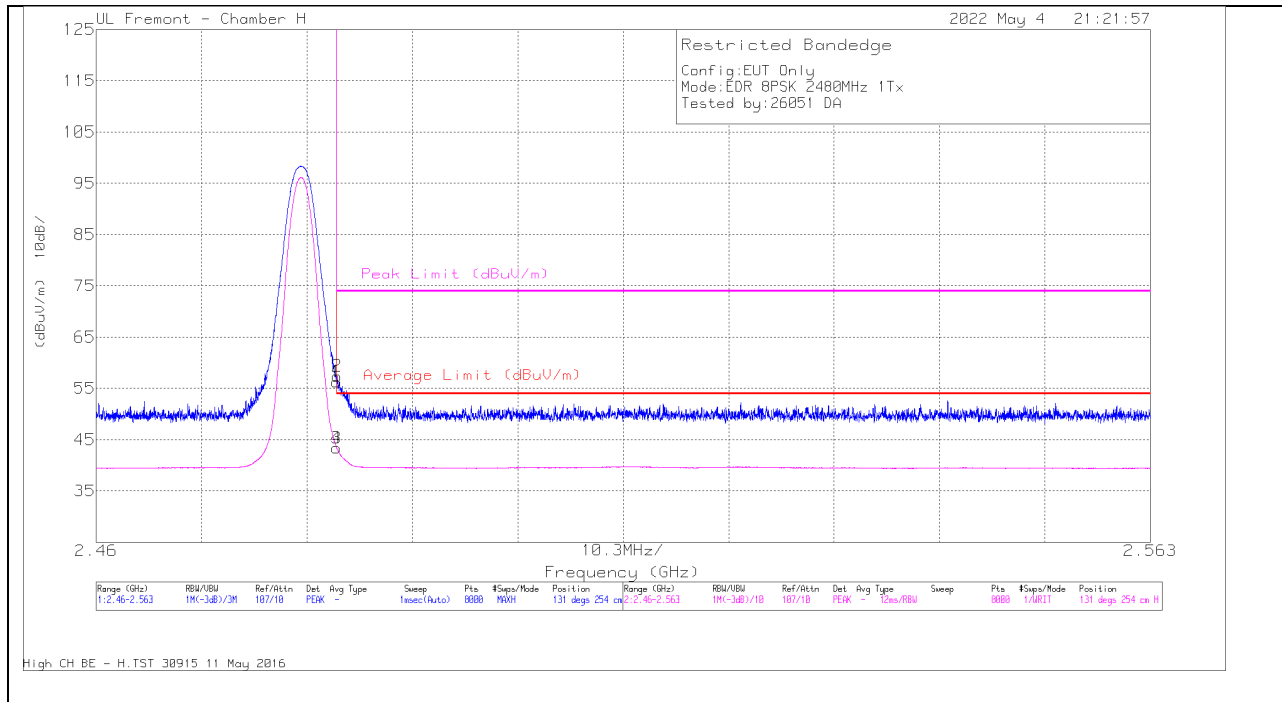
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbi/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.374388	47.49	Pk	32	-27.6	51.89	-	-	74	-22.11	183	339	V
4	* 2.378746	34.63	VA1T	32	-27.7	38.93	54	-15.07	-	-	183	339	V
1	* 2.39	44.82	Pk	32	-27.7	49.12	-	-	74	-24.88	183	339	V
3	* 2.39	34.59	VA1T	32	-27.7	38.89	54	-15.11	-	-	183	339	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**



**Trace Markers**

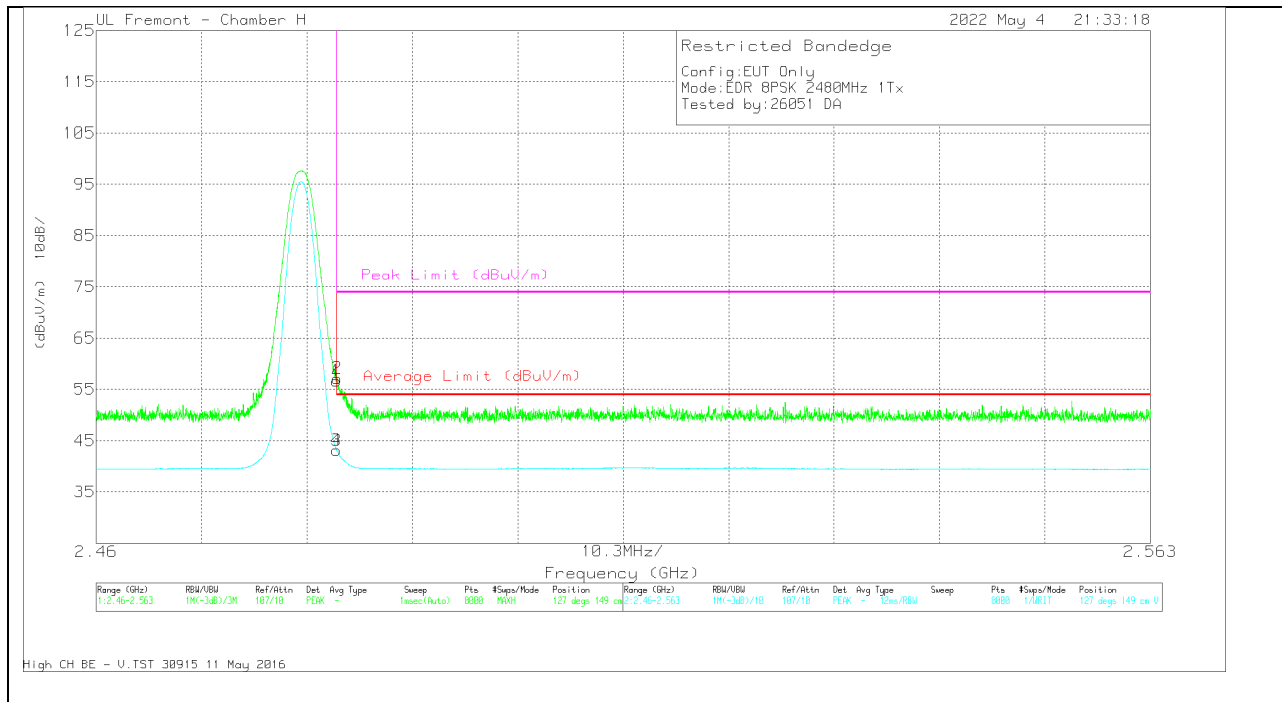
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbi/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	51.42	Pk	32.7	-27.8	56.32	-	-	74	-17.68	131	254	H
3	* 2.4835	38.45	VA1T	32.7	-27.8	43.35	54	-10.65	-	-	131	254	H
4	* 2.483501	38.45	VA1T	32.7	-27.8	43.35	54	-10.65	-	-	131	254	H
2	* 2.483552	52.5	Pk	32.7	-27.8	57.4	-	-	74	-16.6	131	254	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



### Trace Markers

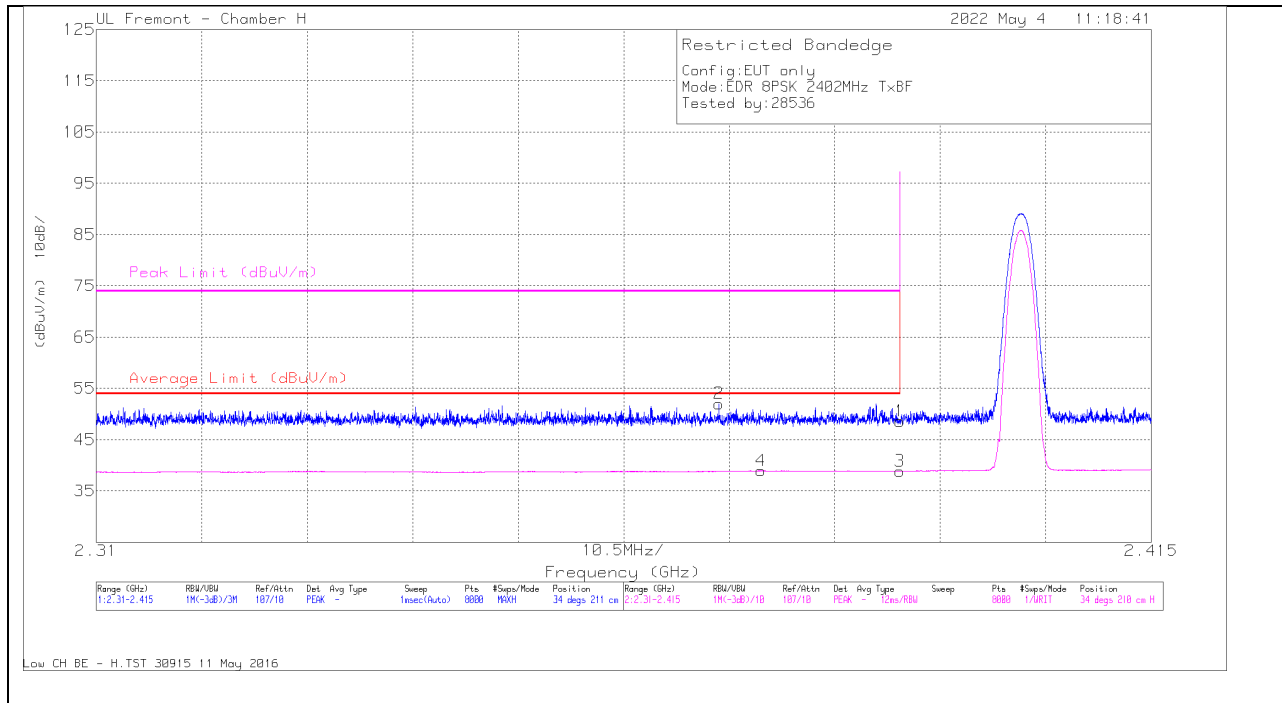
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	51.79	Pk	32.7	-27.8	56.69	-	-	74	-17.31	127	149	V
2	* 2.483565	52.25	Pk	32.7	-27.8	57.15	-	-	74	-16.85	127	149	V
3	* 2.4835	38.22	VA1T	32.7	-27.8	43.12	54	-10.88	-	-	127	149	V
4	* 2.483501	38.22	VA1T	32.7	-27.8	43.12	54	-10.88	-	-	127	149	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

### 10.1.8. LOW POWER BASIC DATA RATE TXBF 8PSK MODULATION

#### BANDEDGE (LOW CHANNEL)

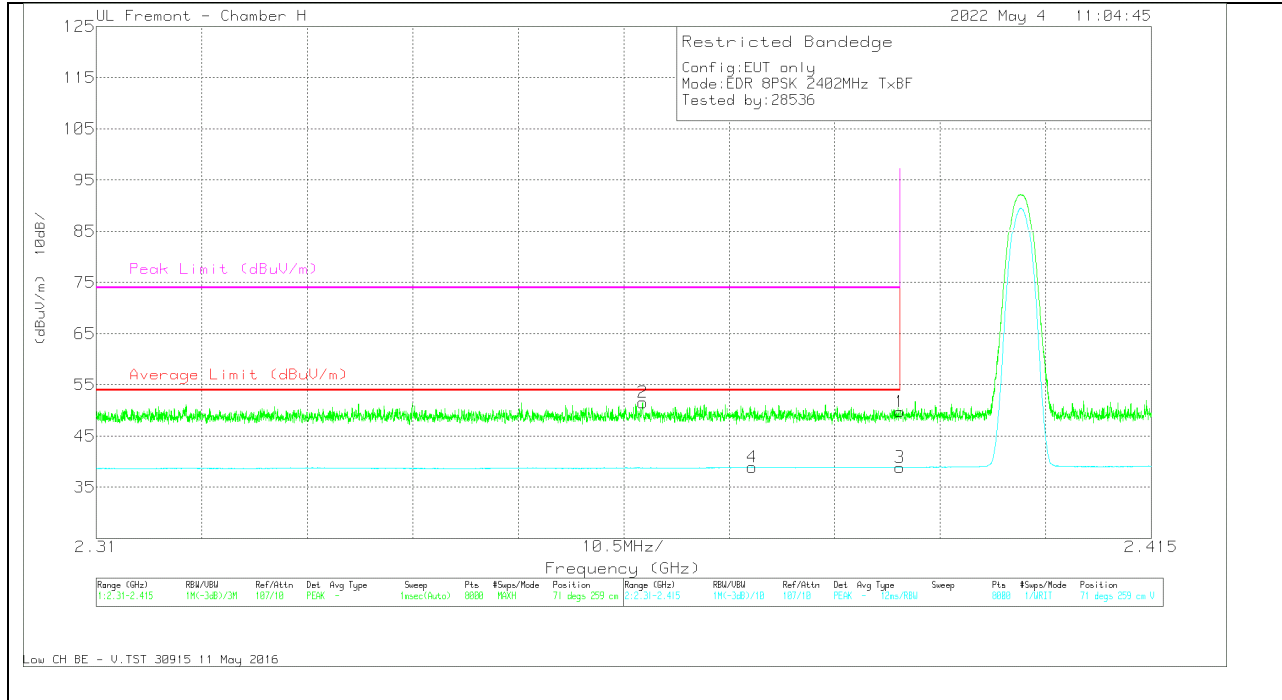
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/Cbi/Pad (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	44.31	Pk	32	-27.7	48.61	-	-	74	-25.39	34	211	H
2	* 2.371959	47.72	Pk	32	-27.7	52.02	-	-	74	-21.98	34	211	H
3	* 2.39	34.55	VA1T	32	-27.7	38.85	54	-15.15	-	-	34	210	H
4	* 2.37616	34.54	VA1T	32	-27.6	38.94	54	-15.06	-	-	34	210	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

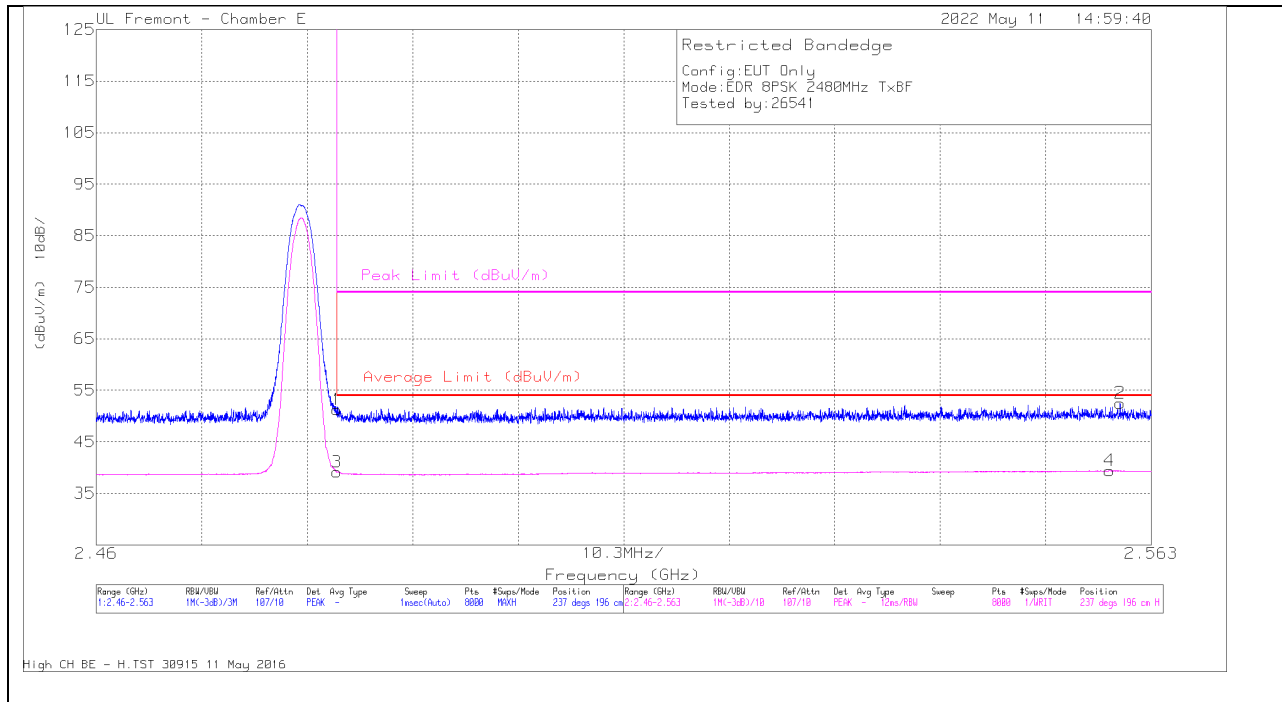


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 80430 (dB/m)	Amp/C b/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.43	Pk	32	-27.7	49.73	-	-	74	-24.27	71	259	V
2	* 2.364398	47.35	Pk	31.9	-27.7	51.55	-	-	74	-22.45	71	259	V
3	* 2.39	34.56	VA1T	32	-27.7	38.86	54	-15.14	-	-	71	259	V
4	* 2.375267	34.51	VA1T	32	-27.6	38.91	54	-15.09	-	-	71	259	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**



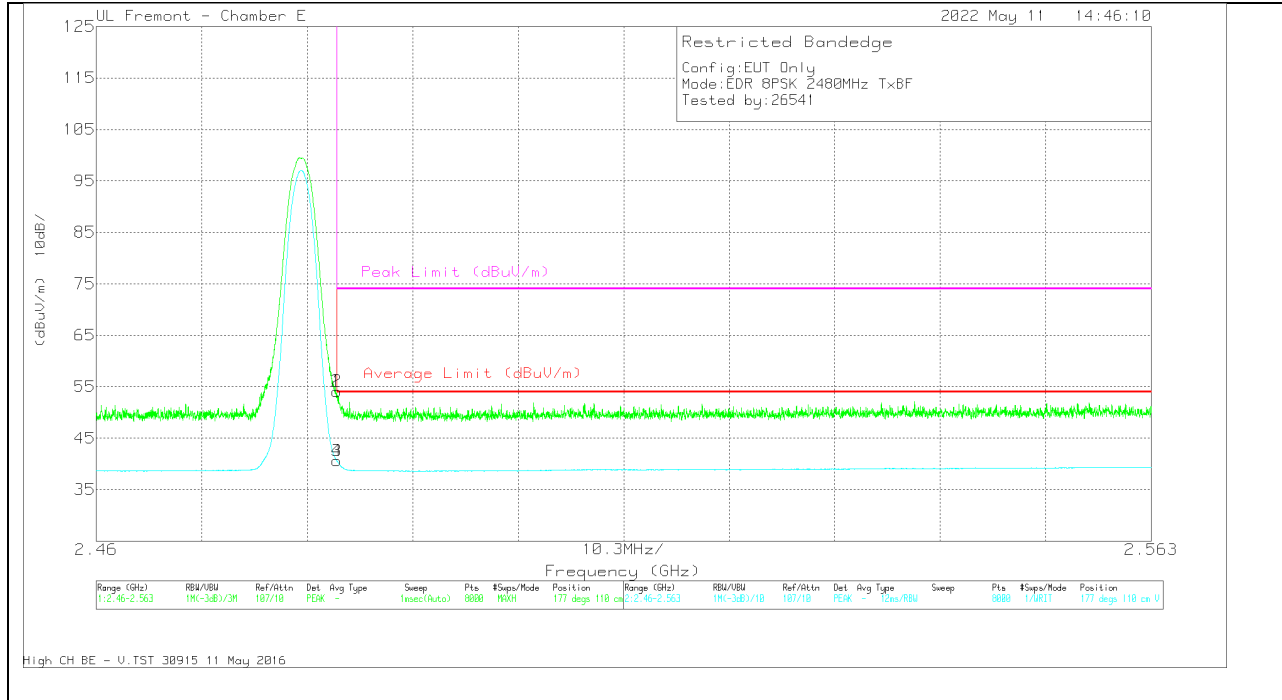
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/Cbl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	45.36	Pk	31.8	-25.9	51.26	-	-	74	-22.74	237	196	H
3	* 2.4835	33.25	VA1T	31.8	-25.9	39.15	54	-14.85	-	-	237	196	H
4	2.558921	32.93	VA1T	32.4	-25.9	39.43	54	-14.57	-	-	237	196	H
2	2.559951	46	Pk	32.4	-25.9	52.5	-	-	74	-21.5	237	196	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

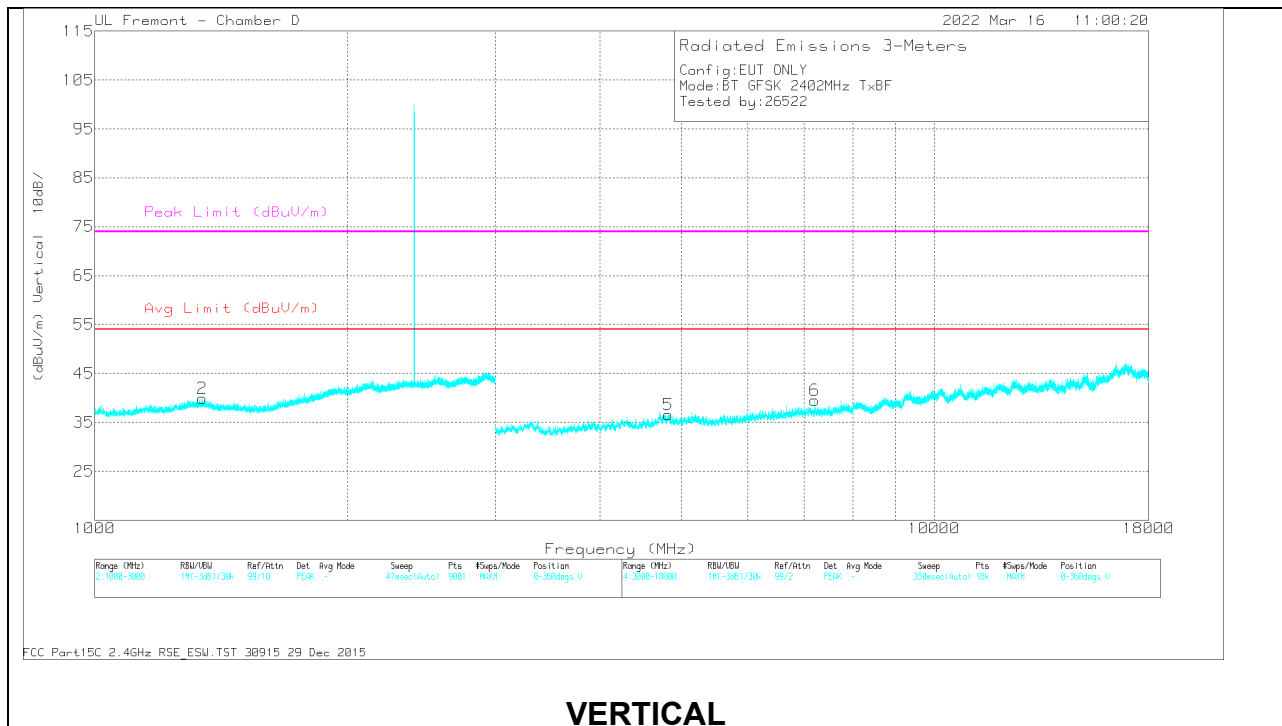
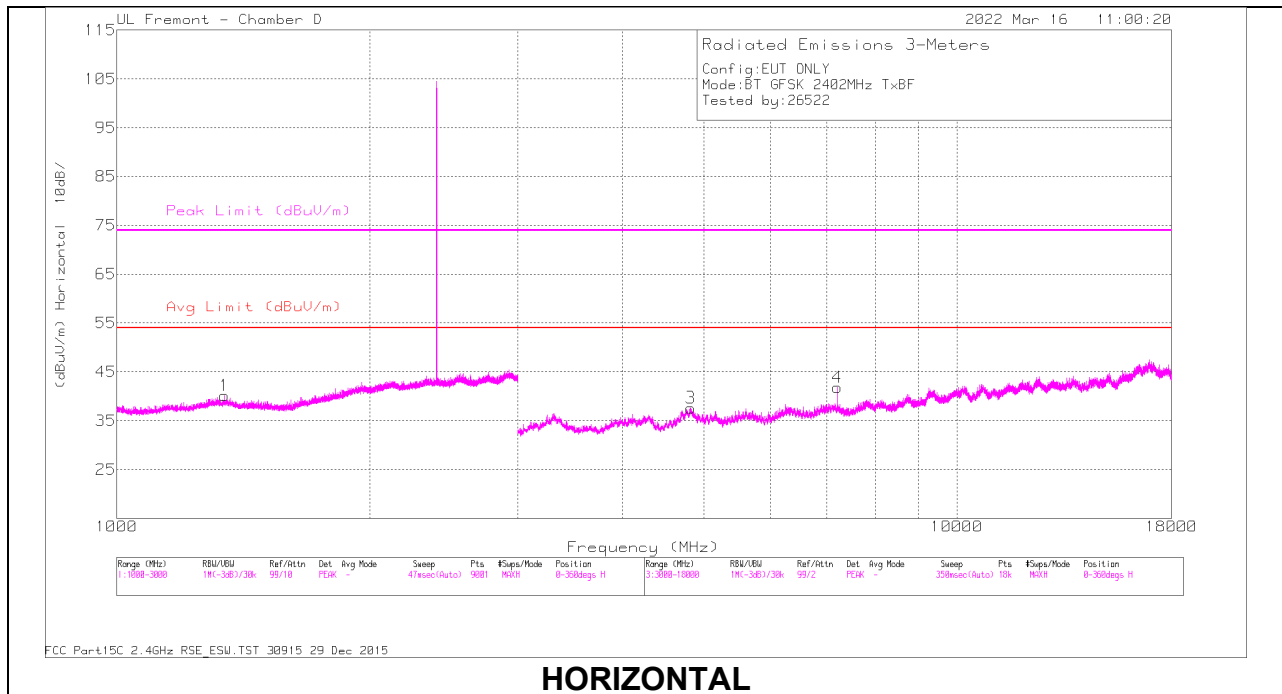


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	200897 ACF (dB/m)	Amp/C bl/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	48.23	Pk	31.8	-25.9	54.13	-	-	74	-19.87	177	110	V
2	* 2.483501	48.22	Pk	31.8	-25.9	54.12	-	-	74	-19.88	177	110	V
3	* 2.4835	34.71	VA1T	31.8	-25.9	40.61	54	-13.39	-	-	177	110	V
4	* 2.483501	34.71	VA1T	31.8	-25.9	40.61	54	-13.39	-	-	177	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

# 10.1.9. GFSK TXBF HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**RADIATED EMISSIONS**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	200786 ACF (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1341.867	40.48	PKFH	29.1	-22.1	47.48	-	-	74	-26.52	45	349	H
	* 1345.672	27.23	VA1T	29.1	-22.1	34.23	54	-19.77	-	-	45	349	H
2	* 1343.407	40.63	PKFH	29.1	-22.1	47.63	-	-	74	-26.37	28	222	V
	* 1345.569	27.22	VA1T	29.1	-22.1	34.22	54	-19.78	-	-	28	222	V
3	* 4819.798	35.91	PKFH	34.3	-25.4	44.81	-	-	74	-29.19	314	222	H
	* 4821.648	22.77	VA1T	34.3	-25.5	31.57	54	-22.43	-	-	314	222	H
5	* 4822.436	37.95	PKFH	34.3	-25.5	46.75	-	-	74	-27.25	297	310	V
	* 4824.067	23.78	VA1T	34.3	-25.5	32.58	54	-21.42	-	-	297	310	V
6	7206.974	37.79	PKFH	35.9	-25.1	48.59	-	-	-	-	144	103	V
	7205.991	25.69	VA1T	35.9	-25.1	36.49	-	-	-	-	144	103	V
4	7206.183	36.88	PKFH	35.9	-25.1	47.68	-	-	-	-	159	262	H
	7206.051	26.2	VA1T	35.9	-25.1	37	-	-	-	-	159	262	H

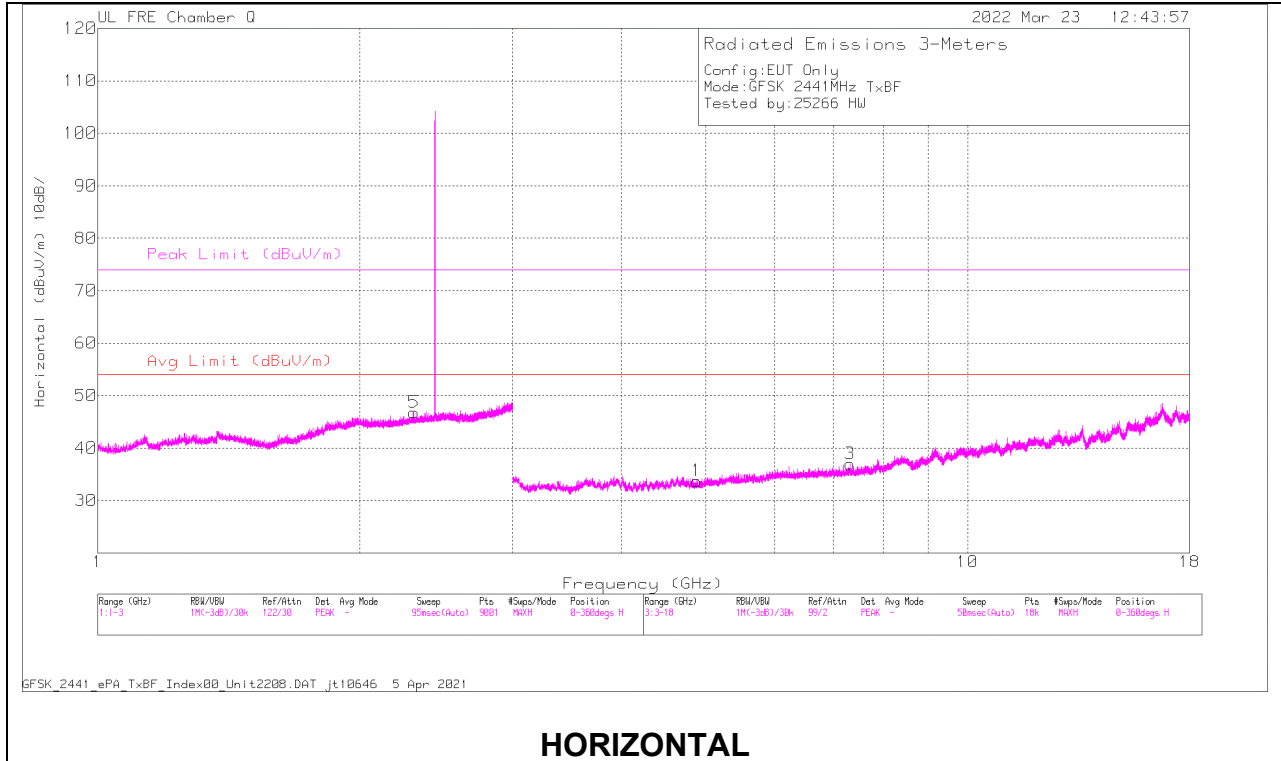
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

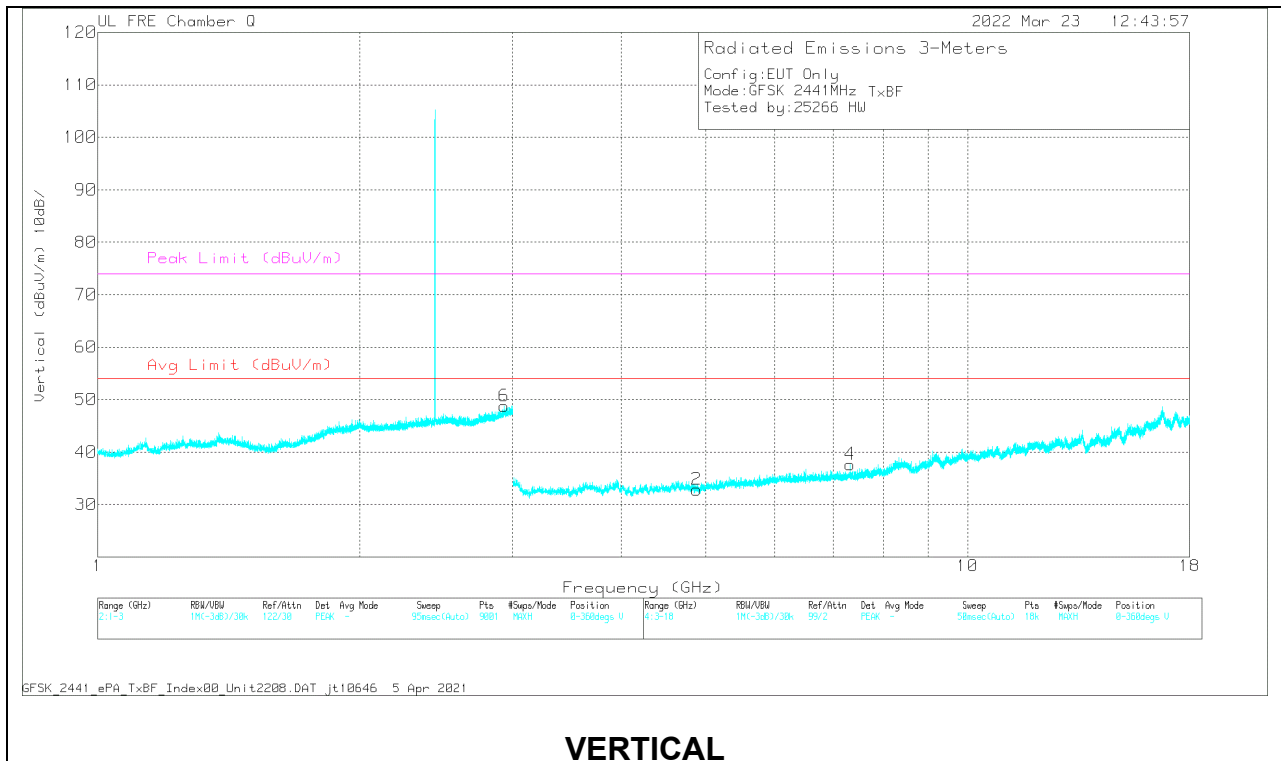
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration



### MID CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

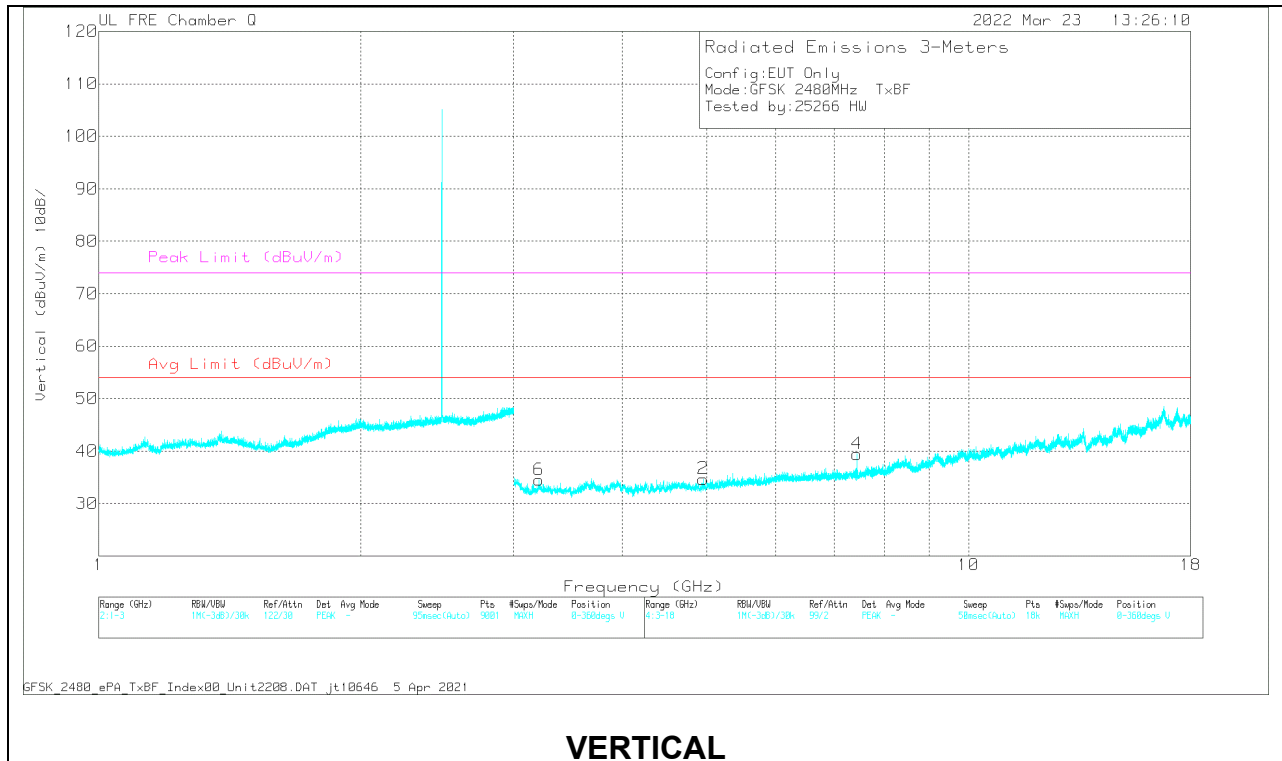
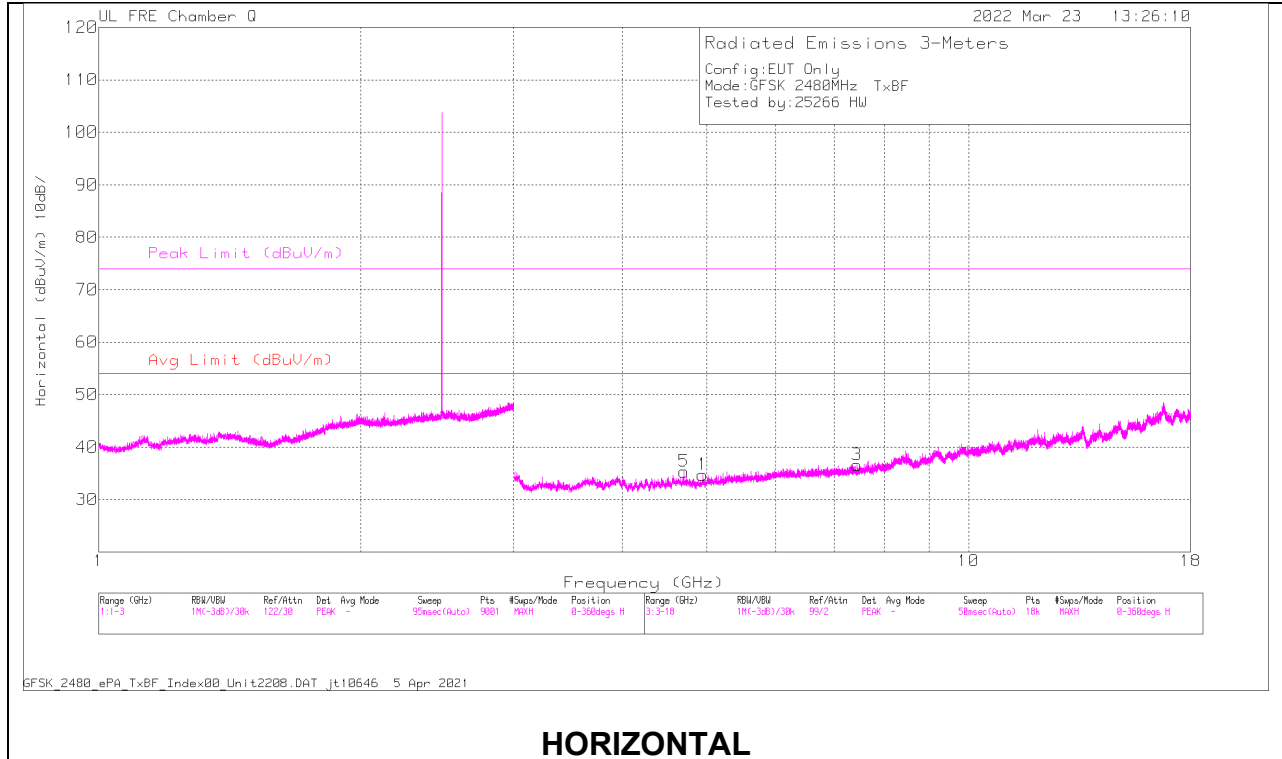
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.309989	57.25	PKFH	31.8	-34.5	54.55	-	-	-	-	303	236	H
	2.311502	43.43	VA1T	31.8	-34.4	40.83	54	-13.17	-	-	303	236	H
6	2.933722	57.07	PKFH	32.6	-33.6	56.07	-	-	-	-	80	237	V
	2.934105	43.94	VA1T	32.6	-33.6	42.94	-	-	-	-	80	237	V
2	*4.878153	49.49	PKFH	33.9	-41.2	42.19	-	-	74	-31.81	245	181	V
	*4.881673	35.77	VA1T	33.9	-41.3	28.37	54	-25.63	-	-	245	181	V
1	*4.880994	49.66	PKFH	33.9	-41.4	42.16	-	-	74	-31.84	322	100	H
	*4.88377	35.91	VA1T	33.9	-41.2	28.61	54	-25.39	-	-	322	100	H
4	*7.320796	46.52	PKFH	35.7	-37.7	44.52	-	-	74	-29.48	201	184	V
	*7.321532	32.8	VA1T	35.7	-37.7	30.8	54	-23.2	-	-	201	184	V
	*7.324575	46.88	PKFH	35.7	-37.8	44.78	-	-	74	-29.22	102	241	H
3	*7.32301	32.88	VA1T	35.7	-37.8	30.78	54	-23.22	-	-	102	241	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

### HIGH CHANNEL RESULTS



**RADIATED EMISSIONS**

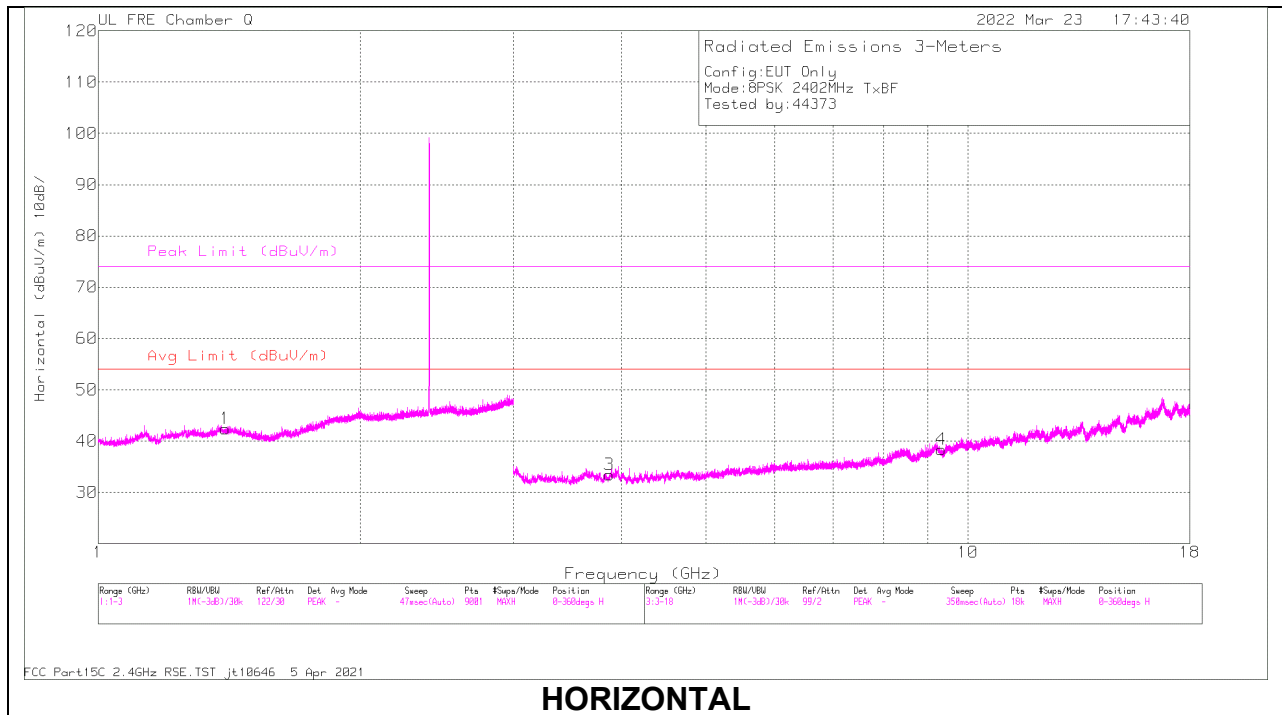
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cb/FI tr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	3.206779	50.8	PKFH	32.9	-42	41.7	-	-	-	-	210	136	V
	3.20703	37.29	VA1T	32.9	-42	28.19	-	-	-	-	210	136	V
5	*4.708695	49.81	PKFH	34	-41.2	42.61	-	-	74	-31.39	224	240	H
	*4.709193	35.99	VA1T	34	-41.2	28.79	54	-25.21	-	-	224	240	H
1	*4.943742	49.4	PKFH	33.9	-41.5	41.8	-	-	74	-32.2	91	208	H
	*4.945346	36.11	VA1T	33.9	-41.4	28.61	54	-25.39	-	-	91	208	H
2	*4.953716	49.44	PKFH	33.9	-41.3	42.04	-	-	74	-31.96	3	127	V
	*4.953235	36.06	VA1T	33.9	-41.4	28.56	54	-25.44	-	-	3	127	V
3	*7.437491	46.16	PKFH	35.7	-37.7	44.16	-	-	74	-29.84	227	211	H
	*7.439692	32.83	VA1T	35.7	-37.7	30.83	54	-23.17	-	-	227	211	H
4	*7.439097	46.45	PKFH	35.7	-37.7	44.45	-	-	74	-29.55	267	185	V
	*7.438648	32.48	VA1T	35.7	-37.7	30.48	54	-23.52	-	-	267	185	V

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

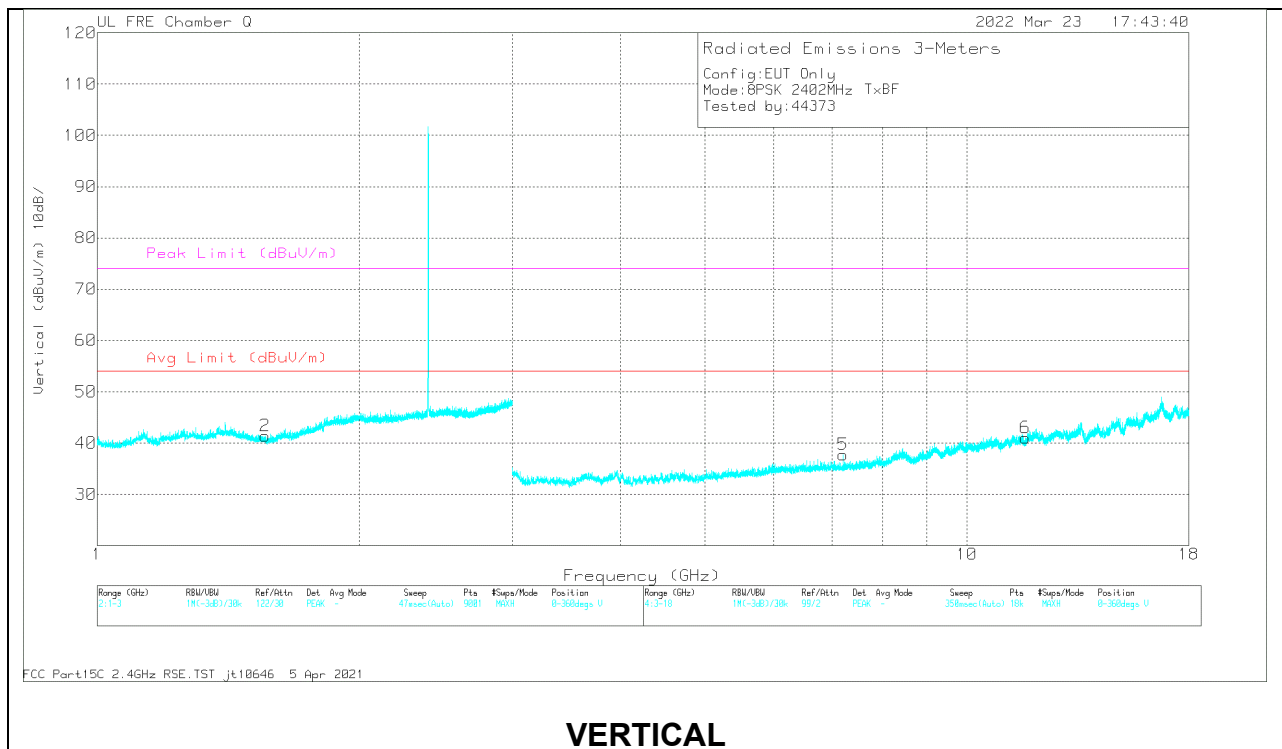
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak  
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

# 10.1.10. 8PSK TXBF HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



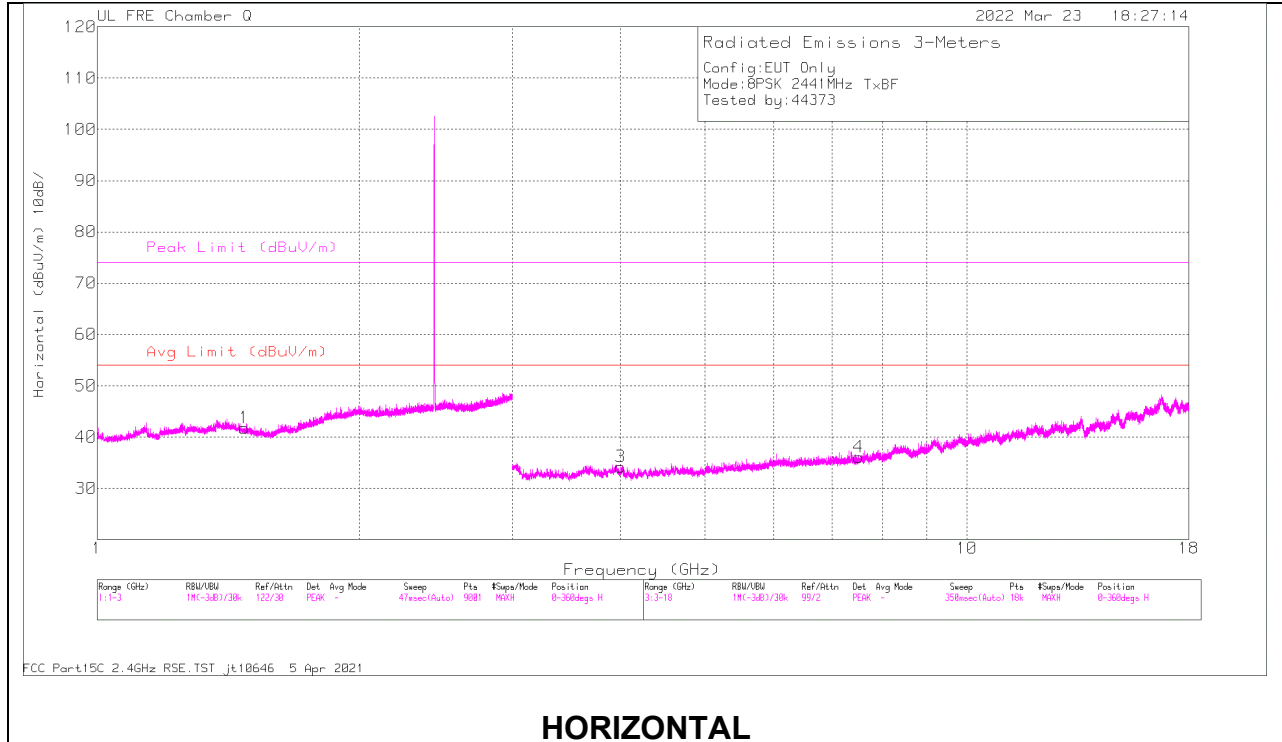
**VERTICAL**

**RADIATED EMISSIONS**

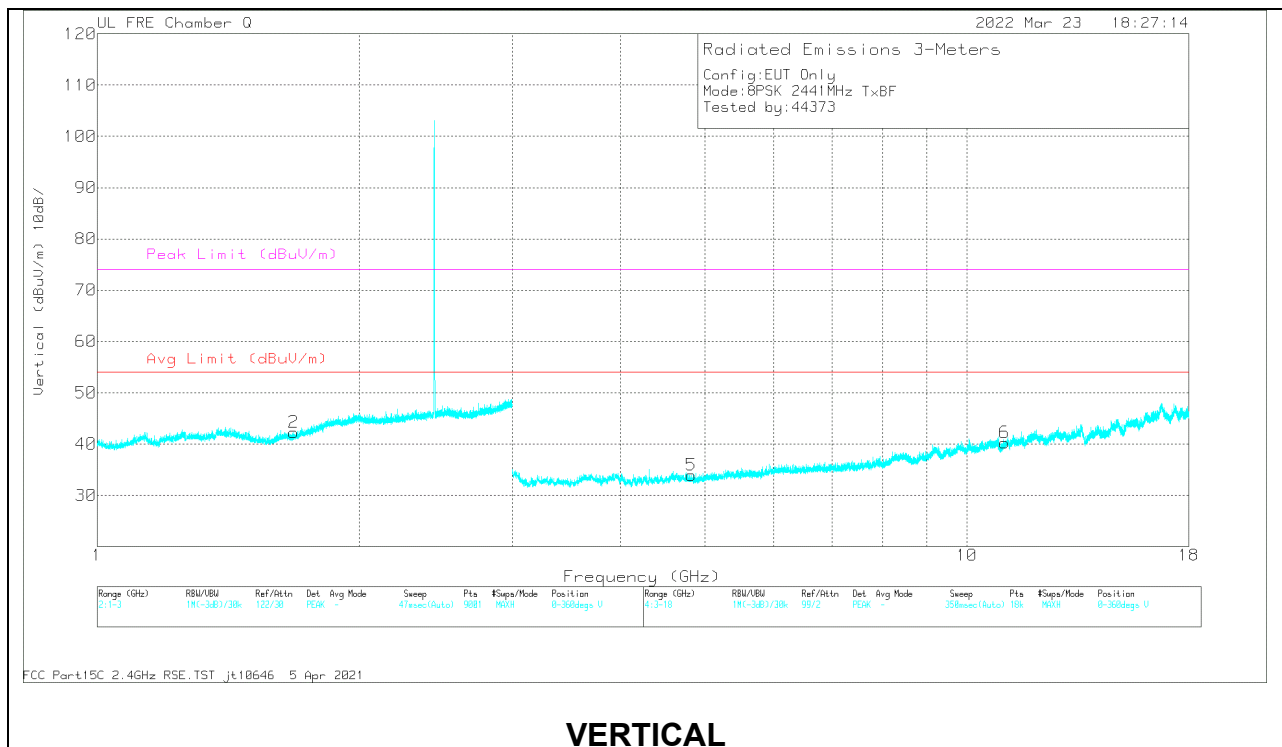
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.397291	58.09	PKFH	28.5	-35.1	51.49	-	-	74	-22.51	174	188	H
	* 1.399976	44.16	VA1T	28.5	-35.1	37.56	54	-16.44	-	-	174	188	H
2	* 1.559623	56.87	PKFH	27.6	-35.1	49.37	-	-	74	-24.63	214	203	V
	* 1.558574	43.47	VA1T	27.6	-35	36.07	54	-17.93	-	-	214	203	V
3	* 3.87227	49.42	PKFH	33.4	-40.7	42.12	-	-	74	-31.88	52	150	H
	* 3.874434	36.03	VA1T	33.4	-40.8	28.63	54	-25.37	-	-	52	150	H
4	* 9.327985	46.94	PKFH	36.5	-35.7	47.74	-	-	74	-26.26	145	218	H
	* 9.329	32.45	VA1T	36.5	-35.7	33.25	54	-20.75	-	-	145	218	H
5	* 11.68188	44.58	PKFH	38.5	-34.3	48.78	-	-	74	-25.22	145	193	V
	* 11.684695	31.27	VA1T	38.5	-34.3	35.47	54	-18.53	-	-	145	193	V
6	7.205926	33.09	VA1T	35.7	-38	30.79	-	-	-	-	220	160	V
	7.206514	46.84	PKFH	35.7	-38	44.54	-	-	-	-	220	160	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

### MID CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.476744	57.22	PKFH	27.8	-35	50.02	-	-	74	-23.98	264	237	H
	* 1.475276	44.09	VA1T	27.8	-35	36.89	54	-17.11	-	-	264	237	H
2	* 1.680622	56.52	PKFH	28.6	-35.1	50.02	-	-	74	-23.98	337	234	V
	* 1.681846	43.22	VA1T	28.6	-35	36.82	54	-17.18	-	-	337	234	V
3	* 3.997743	49.3	PKFH	33.4	-40.6	42.1	-	-	74	-31.9	181	18	H
	* 4.000232	35.91	VA1T	33.4	-40.7	28.61	54	-25.39	-	-	181	188	H
4	* 7.51314	46.44	PKFH	35.8	-37.9	44.34	-	-	74	-29.66	166	164	H
	* 7.511666	33.12	VA1T	35.8	-37.9	31.02	54	-22.98	-	-	166	164	H
5	* 4.821055	48.96	PKFH	34	-41.1	41.86	-	-	74	-32.14	37	178	V
	* 4.820996	35.88	VA1T	34	-41.1	28.78	54	-25.22	-	-	37	178	V
6	* 11.051341	44.15	PKFH	38	-33.9	48.25	-	-	74	-25.75	150	223	V
	* 11.051308	31.04	VA1T	38	-33.9	35.14	54	-18.86	-	-	150	223	V

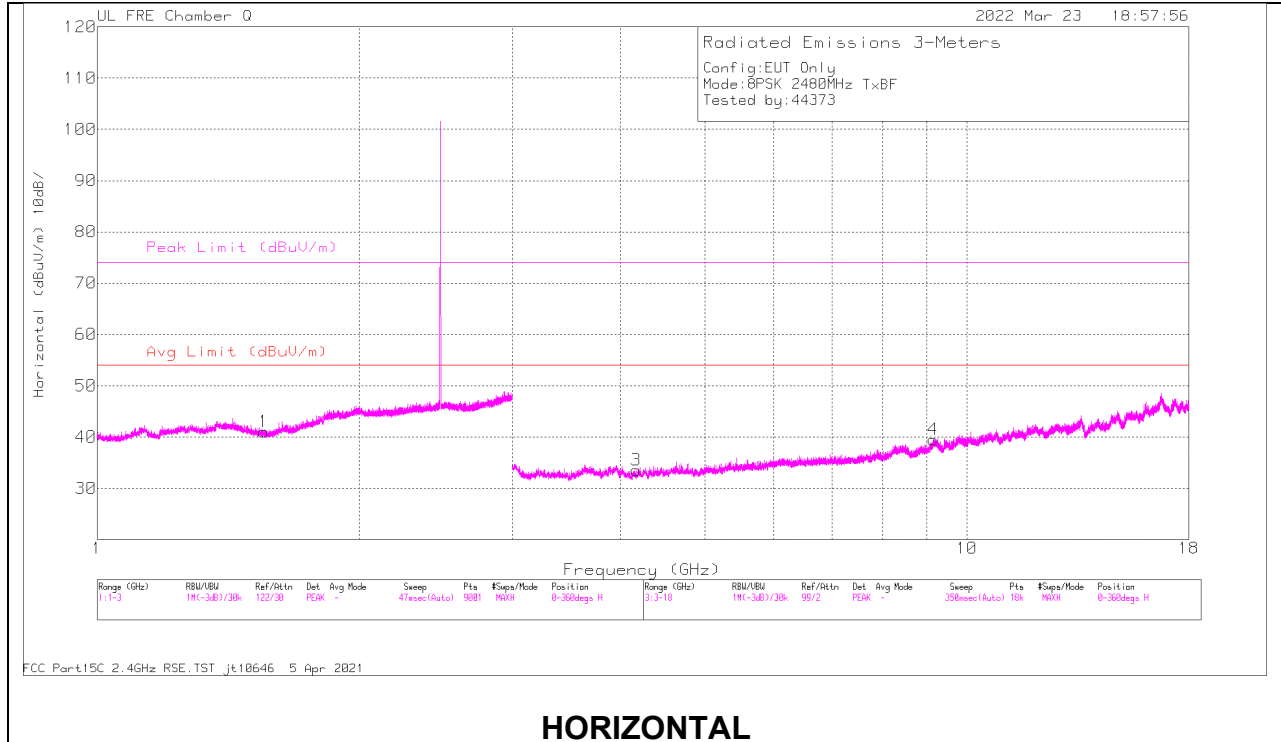
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

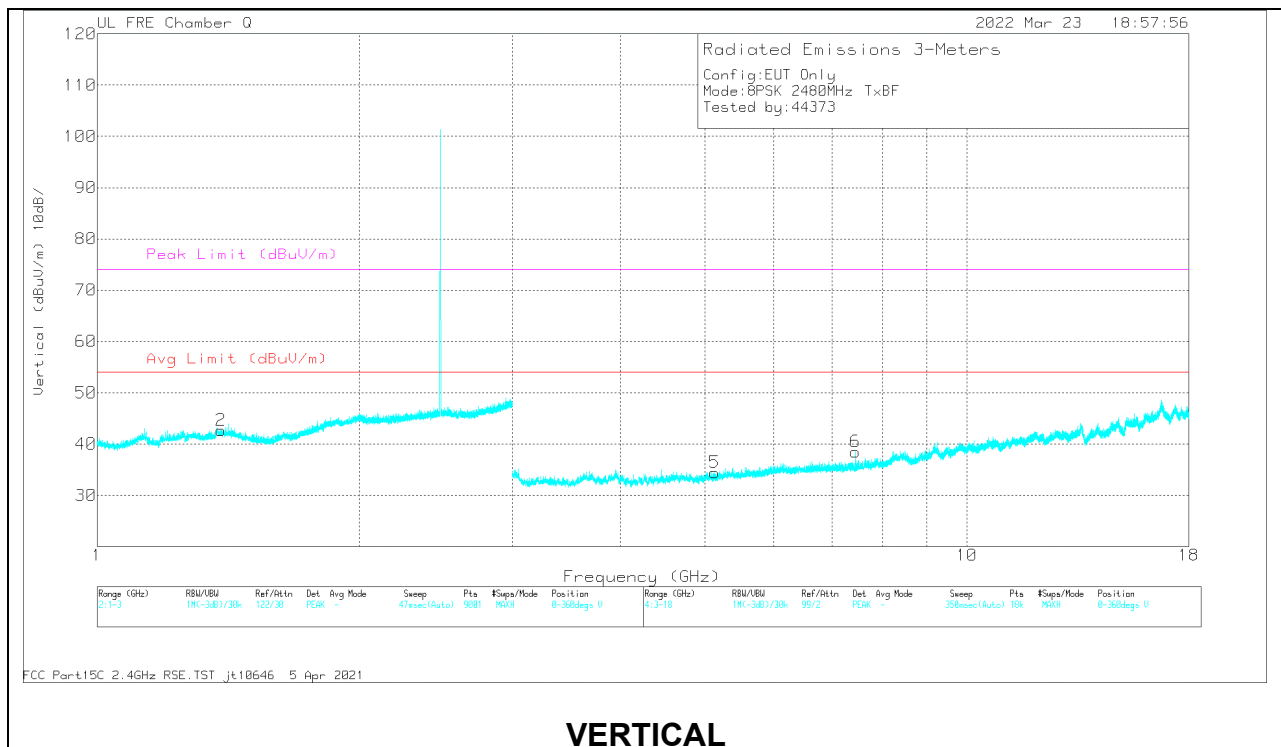
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration



### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

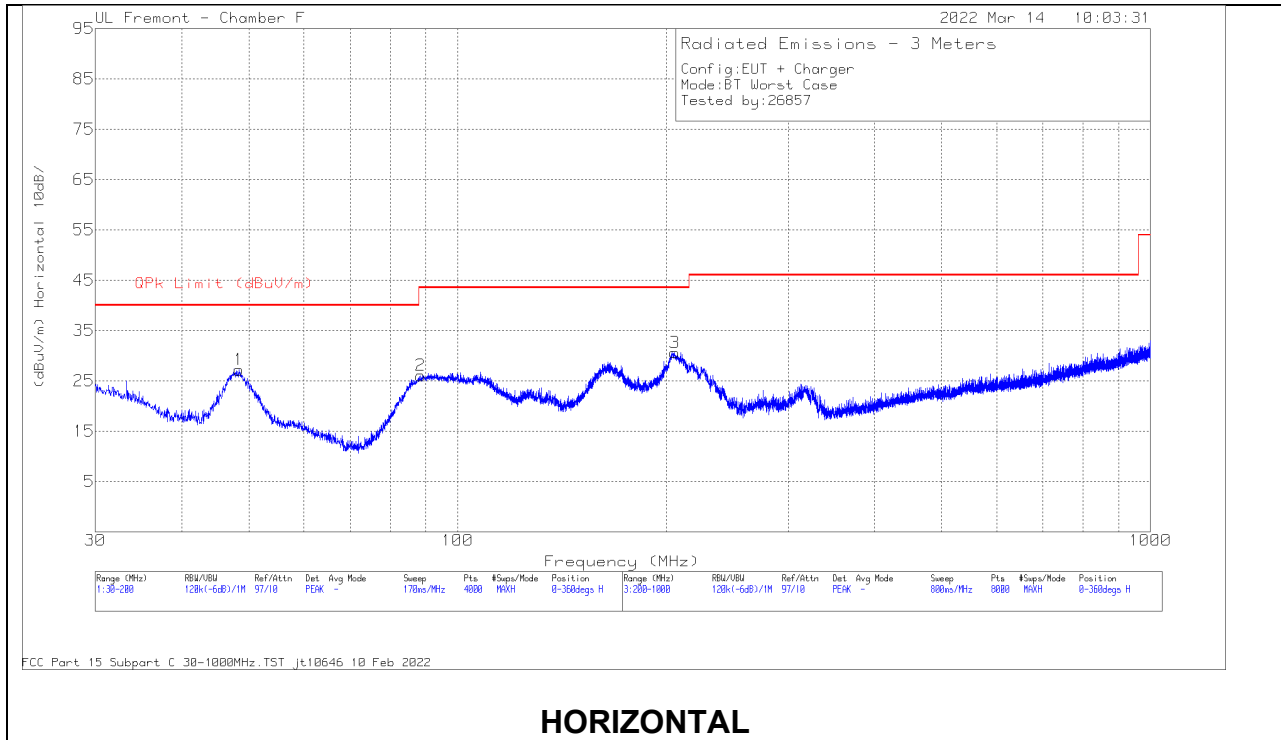
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 200895 (dB/m)	Amp/Cbl/Filtr /Pad (dB)	Correct ed Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.555196	56.97	PKFH	27.7	-35.1	49.57	-	-	74	-24.43	219	116	H
	* 1.554527	43.53	VA1T	27.7	-35.1	36.13	54	-17.87	-	-	219	116	H
2	* 1.388559	57.94	PKFH	28.6	-35.2	51.34	-	-	74	-22.66	177	174	V
	* 1.388793	44.18	VA1T	28.6	-35.2	37.58	54	-16.42	-	-	177	174	V
3	* 4.164879	49.52	PKFH	33.4	-40.9	42.02	-	-	74	-31.98	301	111	H
	* 4.162432	35.52	VA1T	33.4	-41.1	27.82	54	-26.18	-	-	301	111	H
4	* 9.144037	46.75	PKFH	36.3	-35.7	47.35	-	-	74	-26.65	179	232	H
	* 9.145203	33.6	VA1T	36.3	-35.7	34.2	54	-19.8	-	-	179	232	H
5	* 5.129994	48.66	PKFH	34.2	-40.5	42.36	-	-	74	-31.64	125	220	V
	* 5.133763	35.29	VA1T	34.2	-40.6	28.89	54	-25.11	-	-	125	220	V
6	* 7.43843	46.46	PKFH	35.7	-37.7	44.46	-	-	74	-29.54	214	166	V
	* 7.442071	32.73	VA1T	35.7	-37.7	30.73	54	-23.27	-	-	214	166	V

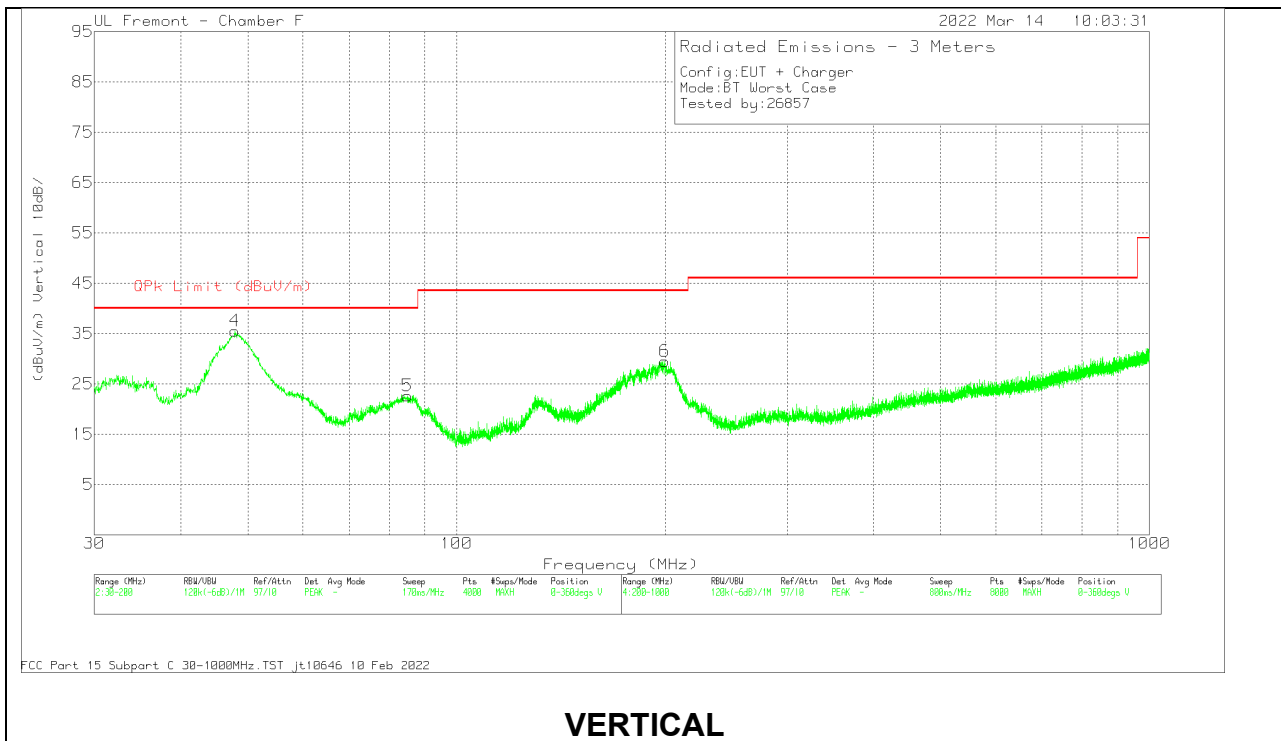
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak  
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## 10.2. WORST CASE BELOW 1 GHZ

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



**HORIZONTAL**



**VERTICAL**

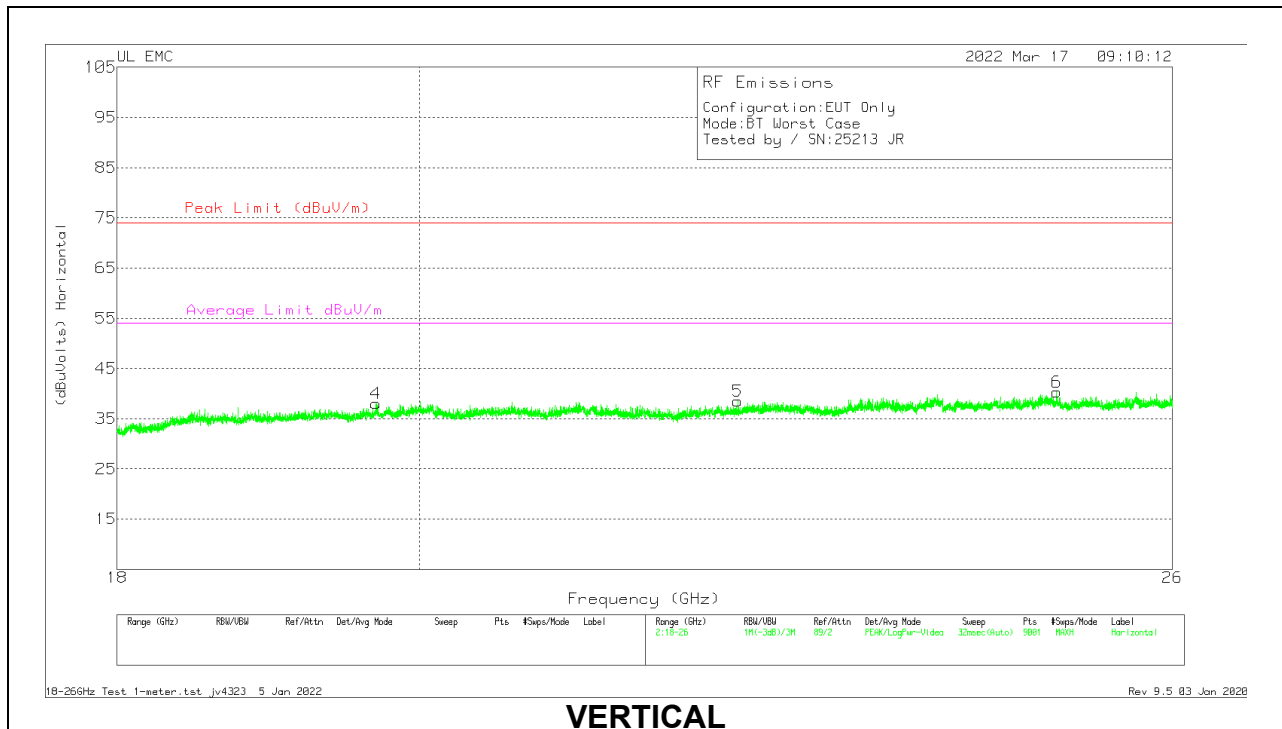
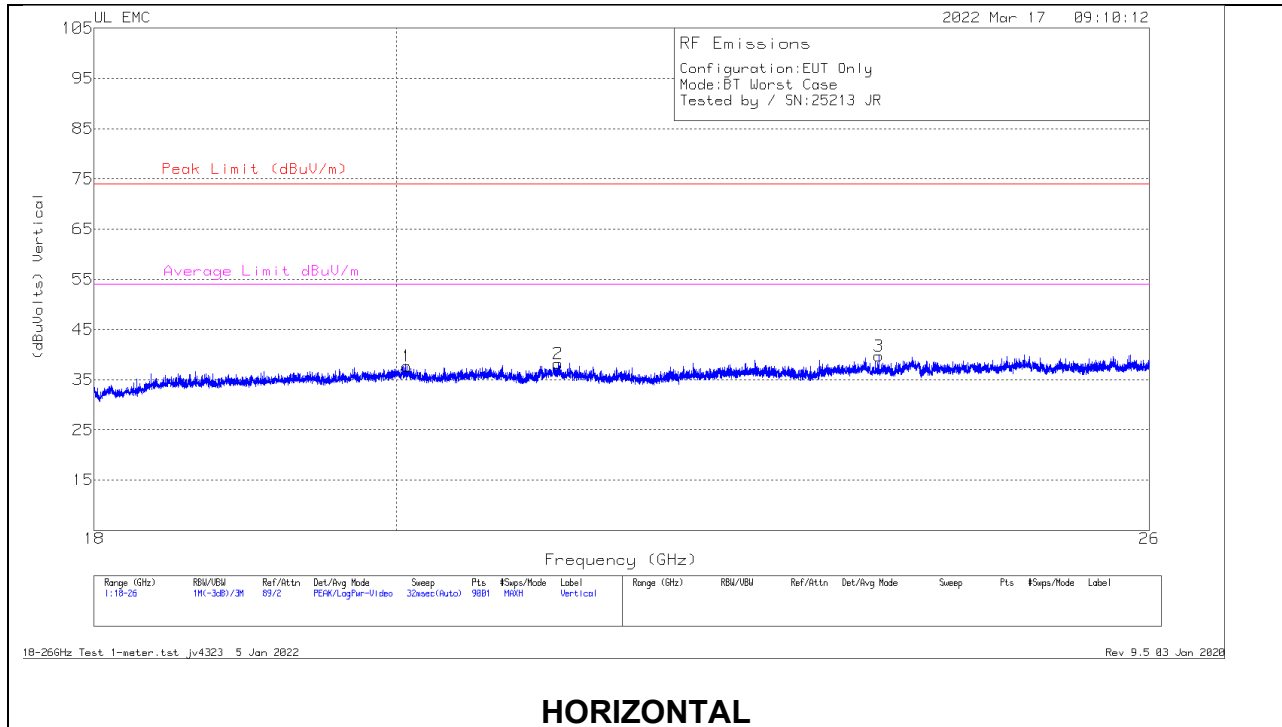
**Below 1GHz Data**

Frequency (MHz)	Meter Reading (dBuV)	Det	AF 204044 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
48.3564	39.52	Qp	15.8	-31.8	23.52	40	-16.48	150	364	H
88.3721	40.05	Qp	14.2	-31.5	22.75	43.52	-20.77	137	223	H
47.6603	48.39	Qp	16.1	-31.8	32.69	40	-7.31	58	102	V
85.183	36.79	Qp	14	-31.5	19.29	40	-20.71	356	106	V
199.679	38.62	Qp	18.5	-30.9	26.22	43.52	-17.3	55	100	V
206.104	40.86	Qp	18.1	-30.8	28.16	43.52	-15.36	288	180	H

Qp - Quasi-Peak detector

### 10.3. WORST CASE 18-26 GHZ

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



**18 – 26GHz DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 81139 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Average Limit dBuV/m	Margin (dB)
1	20.07289	69.86	Pk	33.7	-56.4	-9.5	37.66	74	-36.34	54	-16.34
2	21.15911	70.7	Pk	33.8	-56.8	-9.5	38.2	74	-35.8	54	-15.8
3	23.65956	71.92	Pk	34.5	-57.2	-9.5	39.72	74	-34.28	54	-14.28
4	19.69867	70.52	Pk	33.5	-56.5	-9.5	38.02	74	-35.98	54	-15.98
5	22.34489	71.7	Pk	34.2	-57.9	-9.5	38.5	74	-35.5	54	-15.5
6	24.97245	70.42	Pk	34.9	-55.5	-9.5	40.32	74	-33.68	54	-13.68

Pk - Peak detector

18-26GHz Test 1-meter.tst jv4323 5 Jan 2022

Rev 9.5 03 Jan 2020

## 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.

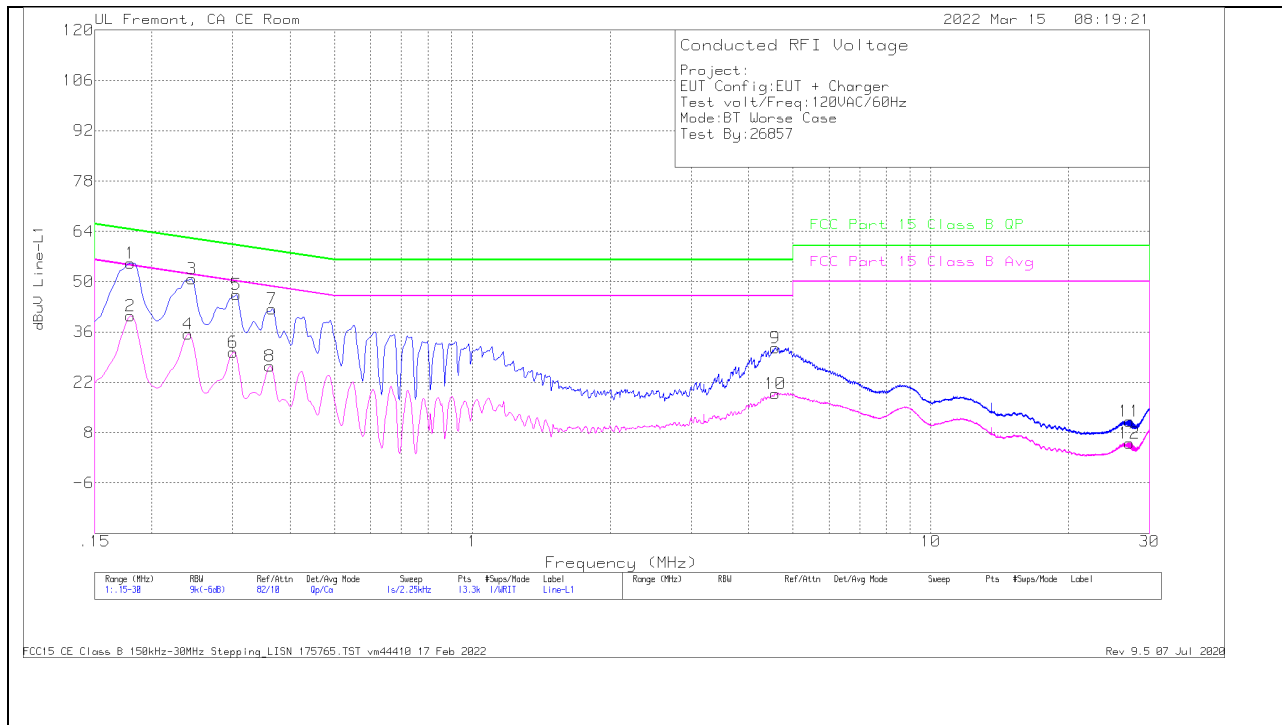
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

# 11.1. AC Power Line With AC/DC Adapter

## LINE 1 RESULTS



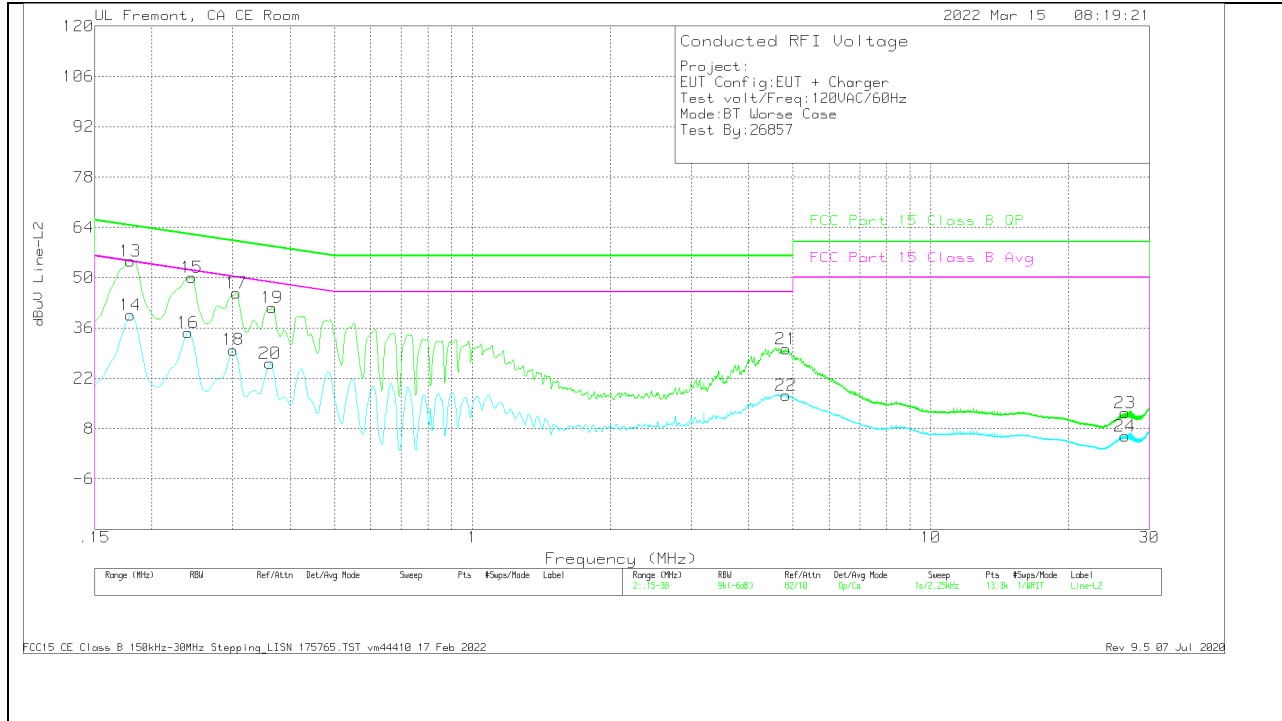
Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175765 LISN L1 (dB)	C1&C3 cable (dB)	TekBox Limiter TBFL1 Model 207 (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR) Margin (dB)
2	.17925	31.05	Ca	.1	0	9.4	40.55	-	-	54.52	-13.97
4	.24	26.11	Ca	0	0	9.3	35.41	-	-	52.1	-16.69
6	.30075	21.11	Ca	0	0	9.3	30.41	-	-	50.22	-19.81
8	.3615	17.26	Ca	0	0	9.3	26.56	-	-	48.69	-22.13
10	4.58138	9.43	Ca	0	.1	9.3	18.83	-	-	46	-27.17
12	27.1185	-4.82	Ca	.2	.3	9.4	5.08	-	-	50	-44.92
1	.17925	45.68	Qp	.1	0	9.4	55.18	64.52	-9.34	-	-
3	.2445	41.53	Qp	0	0	9.3	50.83	61.94	-11.11	-	-
5	.30525	37.07	Qp	0	0	9.3	46.37	60.1	-13.73	-	-
7	.366	33.06	Qp	0	0	9.3	42.36	58.59	-16.23	-	-
9	4.5825	22.17	Qp	0	.1	9.3	31.57	56	-24.43	-	-
11	27.1185	1.29	Qp	.2	.3	9.4	11.19	60	-48.81	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection



### LINE 2 RESULTS



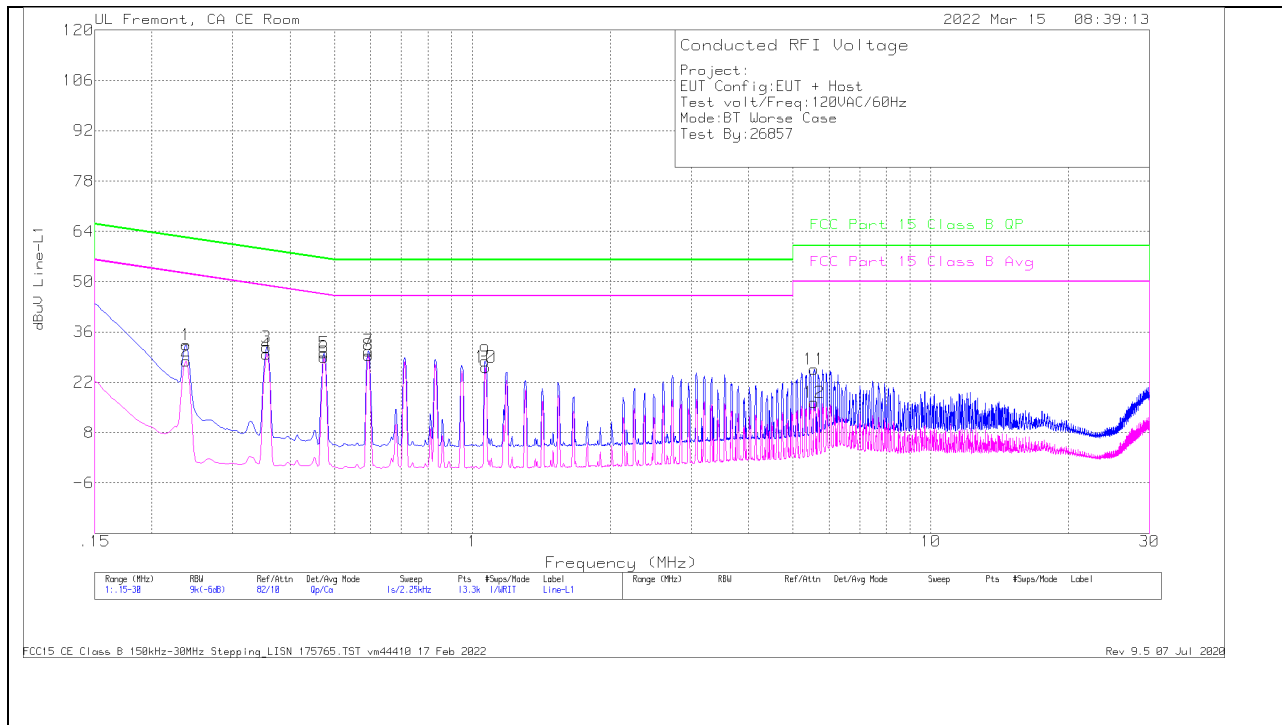
Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175765 LISN L1 (dB)	C1&C3 cable (dB)	TekBox Limiter TBFL1 Model 207 (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR) Margin (dB)
14	.17925	30.06	Ca	.1	0	9.4	39.56	-	-	54.52	-14.96
16	.24	25.5	Ca	0	0	9.3	34.8	-	-	52.1	-17.3
18	.30075	20.63	Ca	0	0	9.3	29.93	-	-	50.22	-20.29
20	.3615	16.82	Ca	0	0	9.3	26.12	-	-	48.69	-22.57
22	4.82775	7.91	Ca	0	.1	9.3	17.31	-	-	46	-28.69
24	26.55375	-3.87	Ca	.2	.3	9.3	5.93	-	-	50	-44.07
13	.17925	45.05	Qp	.1	0	9.4	54.55	64.52	-9.97	-	-
15	.2445	40.78	Qp	0	0	9.3	50.08	61.94	-11.86	-	-
17	.30525	36.35	Qp	0	0	9.3	45.65	60.1	-14.45	-	-
19	.366	32.39	Qp	0	0	9.3	41.69	58.59	-16.9	-	-
21	4.82775	20.76	Qp	0	.1	9.3	30.16	56	-25.84	-	-
23	26.55375	2.55	Qp	.2	.3	9.3	12.35	60	-47.65	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

# 11.2. AC Power Line With Laptop

## LINE 1 RESULTS

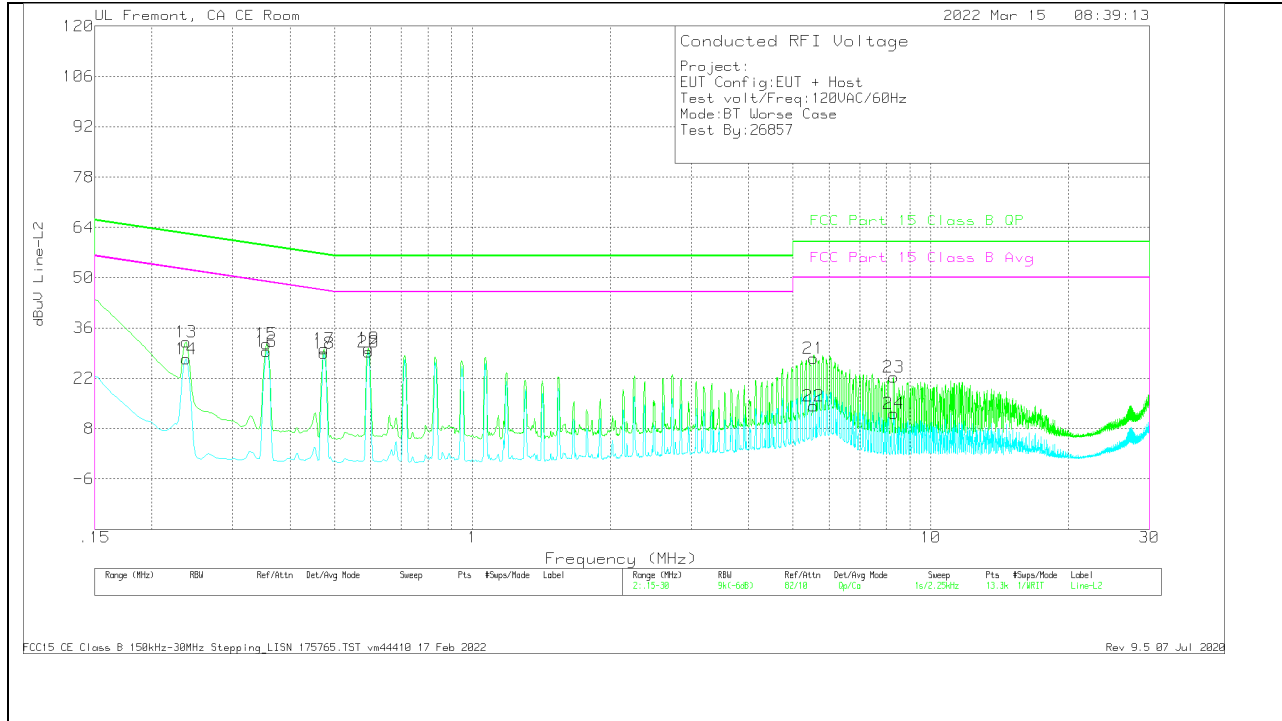


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175765 LISN L1 (dB)	C1&C3 cable (dB)	TekBox Limiter TBFL1 Model 207 (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR) Margin (dB)
2	.23775	18.6	Ca	0	0	9.3	27.9	-	-	52.17	-24.27
4	.35475	20.48	Ca	0	0	9.3	29.78	-	-	48.85	-19.07
6	.474	19.65	Ca	0	0	9.3	28.95	-	-	46.44	-17.49
8	.59325	20.18	Ca	0	.1	9.3	29.58	-	-	46	-16.42
10	1.068	16.86	Ca	0	.1	9.3	26.26	-	-	46	-19.74
12	5.56125	7	Ca	0	.1	9.3	16.4	-	-	50	-33.6
1	.23775	23.18	Qp	0	0	9.3	32.48	62.17	-29.69	-	-
3	.35475	22.5	Qp	0	0	9.3	31.8	58.85	-27.05	-	-
5	.474	20.84	Qp	0	0	9.3	30.14	56.44	-26.3	-	-
7	.59325	21.4	Qp	0	.1	9.3	30.8	56	-25.2	-	-
9	1.06575	18.55	Qp	0	.1	9.3	27.95	56	-28.05	-	-
11	5.56125	16.28	Qp	0	.1	9.3	25.68	60	-34.32	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

### LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	175765 LISN L1 (dB)	C1&C3 cable (dB)	TekBox Limiter TBFL1 Model 207 (dB)	Corrected Reading dBuV	FCC Part 15 Class B QP dBuV	QP Margin (dB)	FCC Part 15 Class B Avg dBuV	Av(CISPR) Margin (dB)
14	.23775	18.03	Ca	0	0	9.3	27.33	-	-	52.17	-24.84
16	.35475	20.16	Ca	0	0	9.3	29.46	-	-	48.85	-19.39
18	.474	19.61	Ca	0	0	9.3	28.91	-	-	46.44	-17.53
20	.59325	19.95	Ca	0	.1	9.3	29.35	-	-	46	-16.65
22	5.5545	4.87	Ca	0	.1	9.3	14.27	-	-	50	-35.73
24	8.295	2.84	Ca	0	.1	9.3	12.24	-	-	50	-37.76
13	.23775	22.75	Qp	0	0	9.3	32.05	62.17	-30.12	-	-
15	.35475	22.23	Qp	0	0	9.3	31.53	58.85	-27.32	-	-
17	.474	20.81	Qp	0	0	9.3	30.11	56.44	-26.33	-	-
19	.59325	21.04	Qp	0	.1	9.3	30.44	56	-25.56	-	-
21	5.5545	18.1	Qp	0	.1	9.3	27.5	60	-32.5	-	-
23	8.29275	12.86	Qp	0	.1	9.3	22.26	60	-37.74	-	-

Qp - Quasi-Peak detector

Ca - CISPR average detection

## 12. SETUP PHOTOS

Please refer to 14040867-EP1V1 for setup photos

**END OF TEST REPORT**