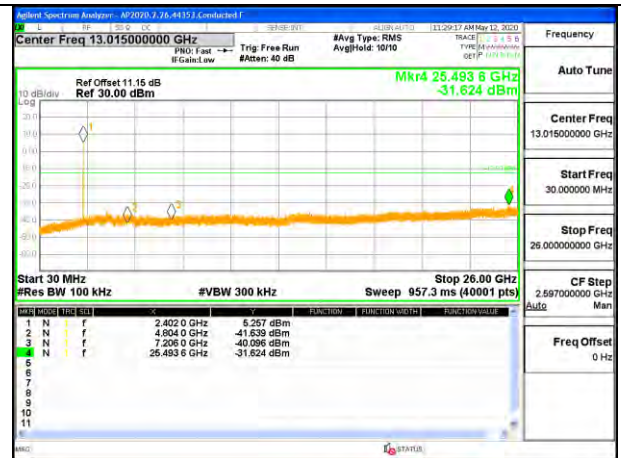


## 9.8.8. LOW POWER BASIC DATA RATE TXBF 8PSK MODULATION

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

### ANT 4



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





### ANT 3



LOW CHANNEL , BANDEDGE ANT 3



LOW CHANNEL OUT-OF-BAND ANT 3



MID CHANNEL REFERENCE ANT 3



MID CHANNEL OUT-OF-BAND ANT 3

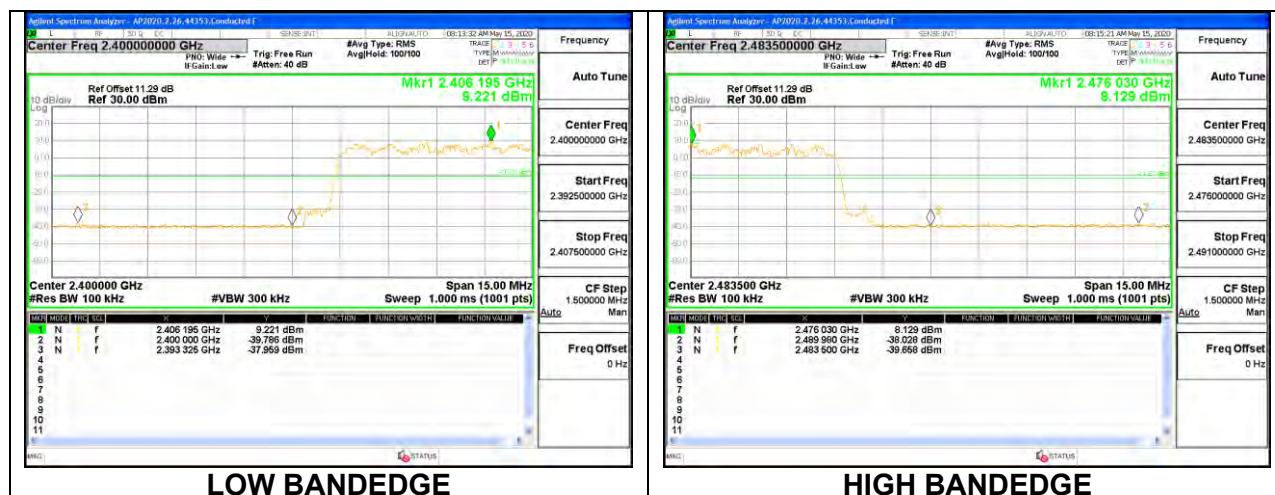


HIGH CHANNEL BANDEDGE ANT 3



HIGH CHANNEL OUT-OF-BAND ANT 3

**ANT 3 SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON**



## 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.

For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

**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.

**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.

**Results**

High Power Beamforming GFSK mode is set to maximum power per chain to cover both SISO and MIMO modes to complies with radiated spurious emissions limits in the restricted bands between 1GHz and 18GHz low/mid/high channel (except the band edge).

Spurious emissions for frequencies below 1GHz and above 18GHz were limited to the middle channel as preliminary testing indicated that changing the operating frequency had no significant impact on the emissions in those frequency bands.

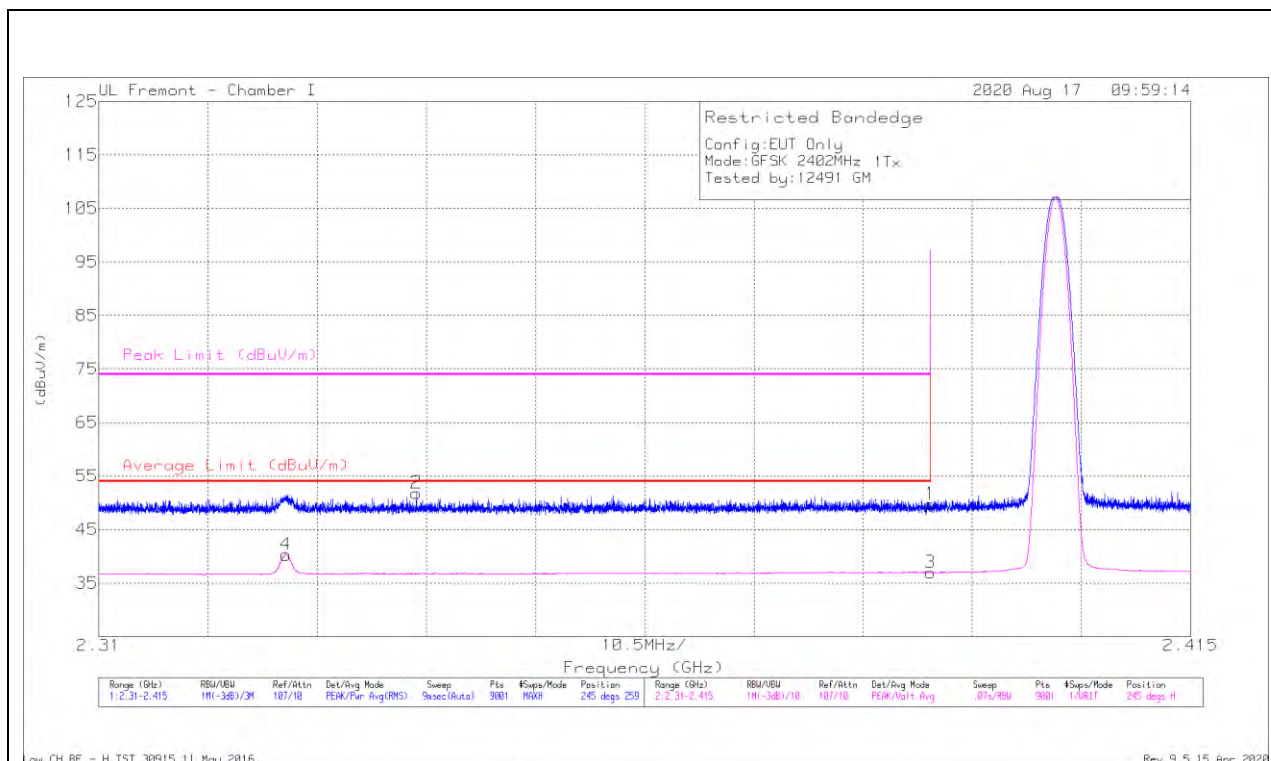
## 10.1. TRANSMITTER ABOVE 1 GHz

### 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 T346 (dB/m) | Amp/Cbl/Filt/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      | * 2.38999       | 35.04                | Pk   | 32             | -17.3                 | 49.74                      | -                      | -           | 74                  | -24.26         | 245            | 259         | H        |
| 2      | * 2.34054       | 37.22                | Pk   | 31.8           | -17.2                 | 51.82                      | -                      | -           | 74                  | -22.18         | 245            | 259         | H        |
| 3      | * 2.38999       | 22.24                | VA1T | 32             | -17.3                 | 36.94                      | 54                     | -17.06      | -                   | -              | 245            | 259         | H        |
| 4      | * 2.32798       | 25.79                | VA1T | 31.7           | -17.2                 | 40.29                      | 54                     | -13.71      | -                   | -              | 245            | 259         | H        |

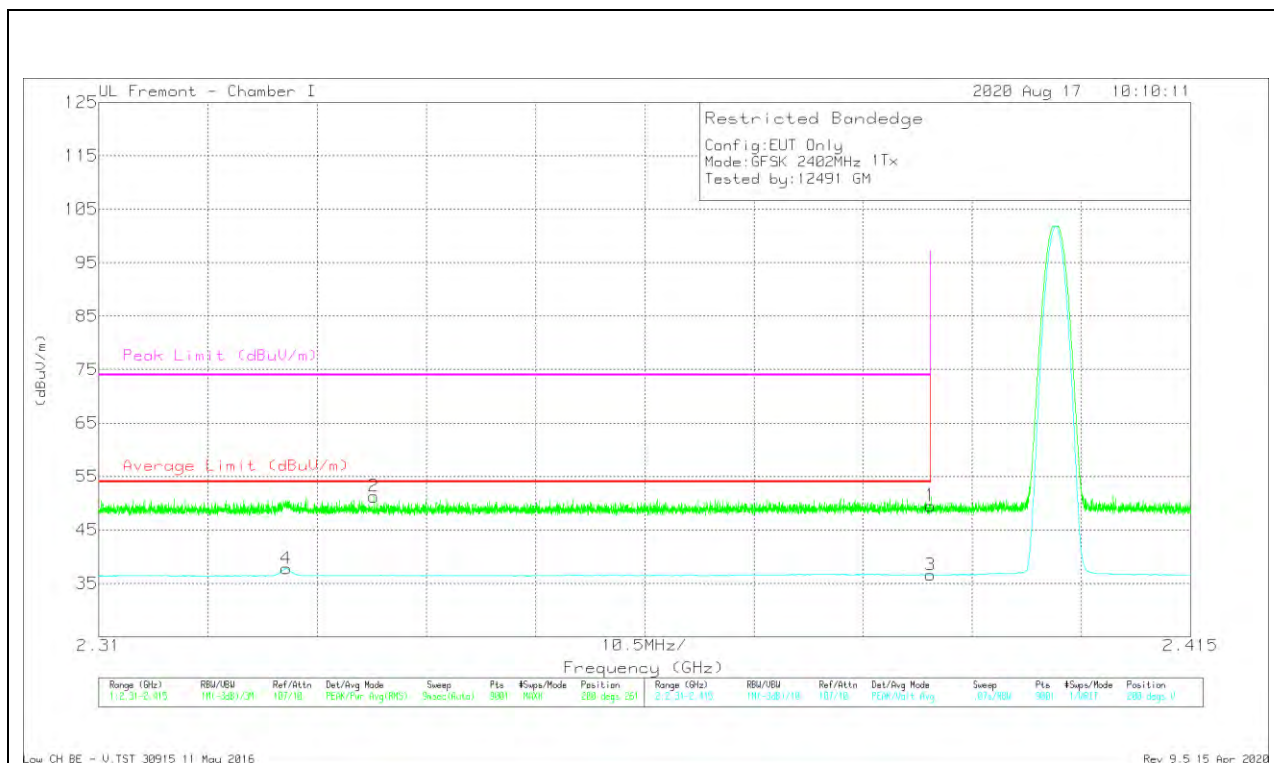
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T346 (dB/m) | Amp/Cbll/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.8                 | Pk   | 32             | -17.3                    | 49.5                       | -                      | -           | 74                  | -24.5          | 200            | 261         | V        |
| 2      | * 2.33643       | 36.65                | Pk   | 31.8           | -17.2                    | 51.25                      | -                      | -           | 74                  | -22.75         | 200            | 261         | V        |
| 3      | * 2.38999       | 21.85                | VA1T | 32             | -17.3                    | 36.55                      | 54                     | -17.45      | -                   | -              | 200            | 261         | V        |
| 4      | * 2.32803       | 23.27                | VA1T | 31.7           | -17.2                    | 37.77                      | 54                     | -16.23      | -                   | -              | 200            | 261         | V        |

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

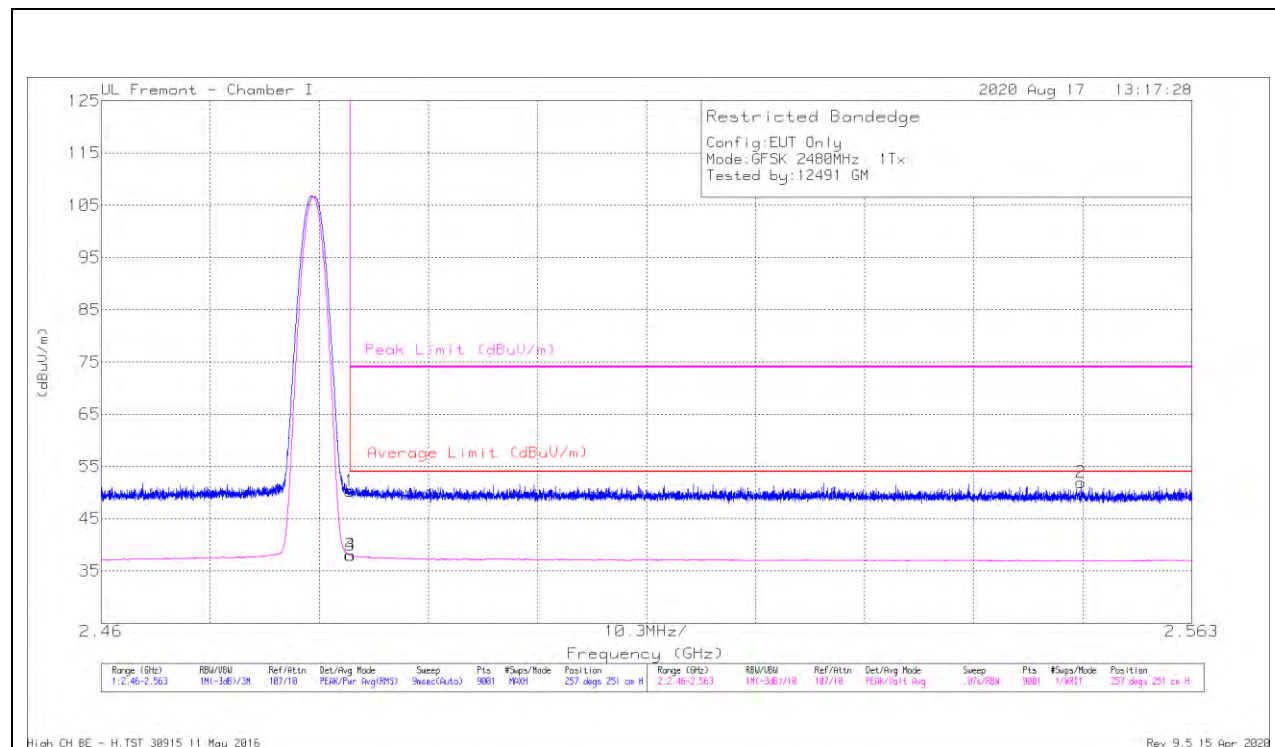
Pk - Peak detector

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



## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



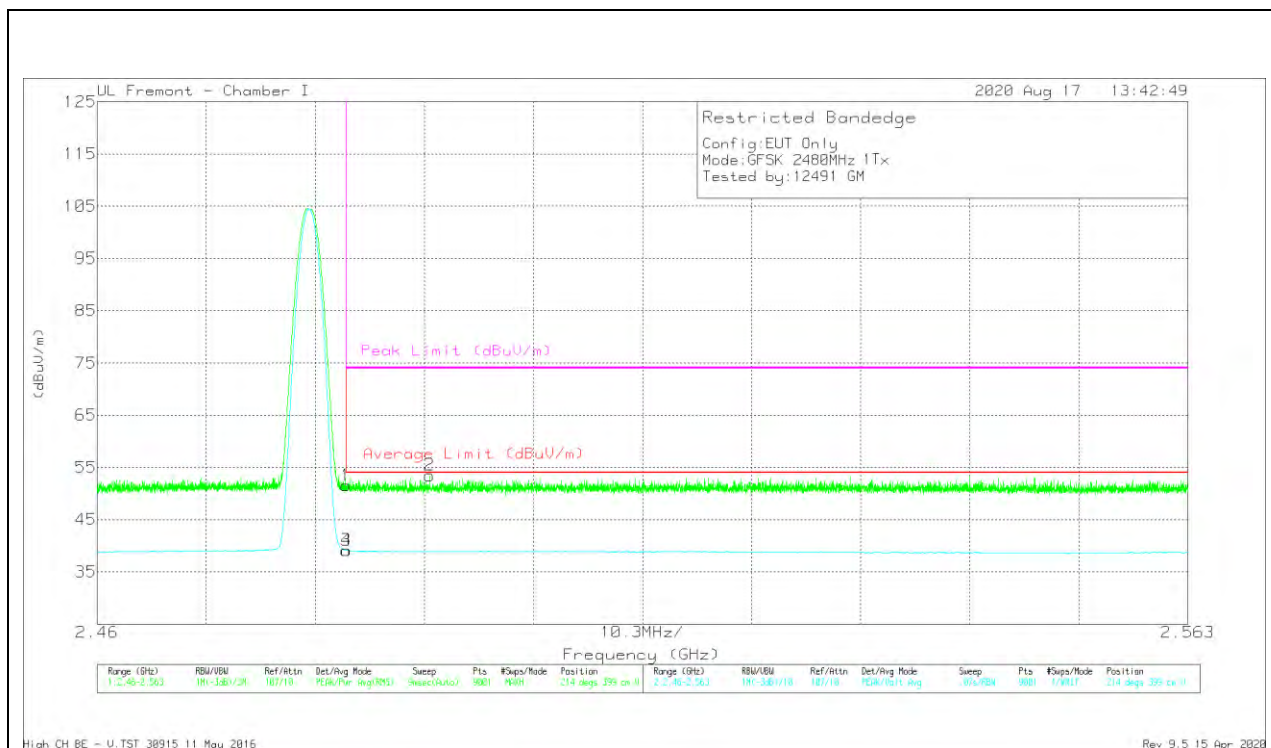
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 2.48351       | 35.55                | Pk   | 32.4           | -17.7                  | 50.25                      | -                      | -           | 74                  | -23.75         | 257             | 251         | H        |
| 2      | 2.55251         | 37.42                | Pk   | 32.3           | -17.8                  | 51.92                      | -                      | -           | 74                  | -22.08         | 257             | 251         | H        |
| 3      | * 2.48351       | 23.29                | VA1T | 32.4           | -17.7                  | 37.99                      | 54                     | -16.01      | -                   | -              | 257             | 251         | H        |
| 4      | * 2.48353       | 23.28                | VA1T | 32.4           | -17.7                  | 37.98                      | 54                     | -16.02      | -                   | -              | 257             | 251         | 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 T346 (dB/m) | Amp/Cbll/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 36.83                | Pk   | 32.4           | -17.7                   | 51.53                      | -                      | -           | 74                  | -22.47         | 214            | 399         | V        |
| 2      | * 2.49138       | 38.76                | Pk   | 32.5           | -17.8                   | 53.46                      | -                      | -           | 74                  | -20.54         | 214            | 399         | V        |
| 3      | * 2.48351       | 24.42                | VA1T | 32.4           | -17.7                   | 39.12                      | 54                     | -14.88      | -                   | -              | 214            | 399         | V        |
| 4      | * 2.48354       | 24.44                | VA1T | 32.4           | -17.7                   | 39.14                      | 54                     | -14.86      | -                   | -              | 214            | 399         | V        |

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

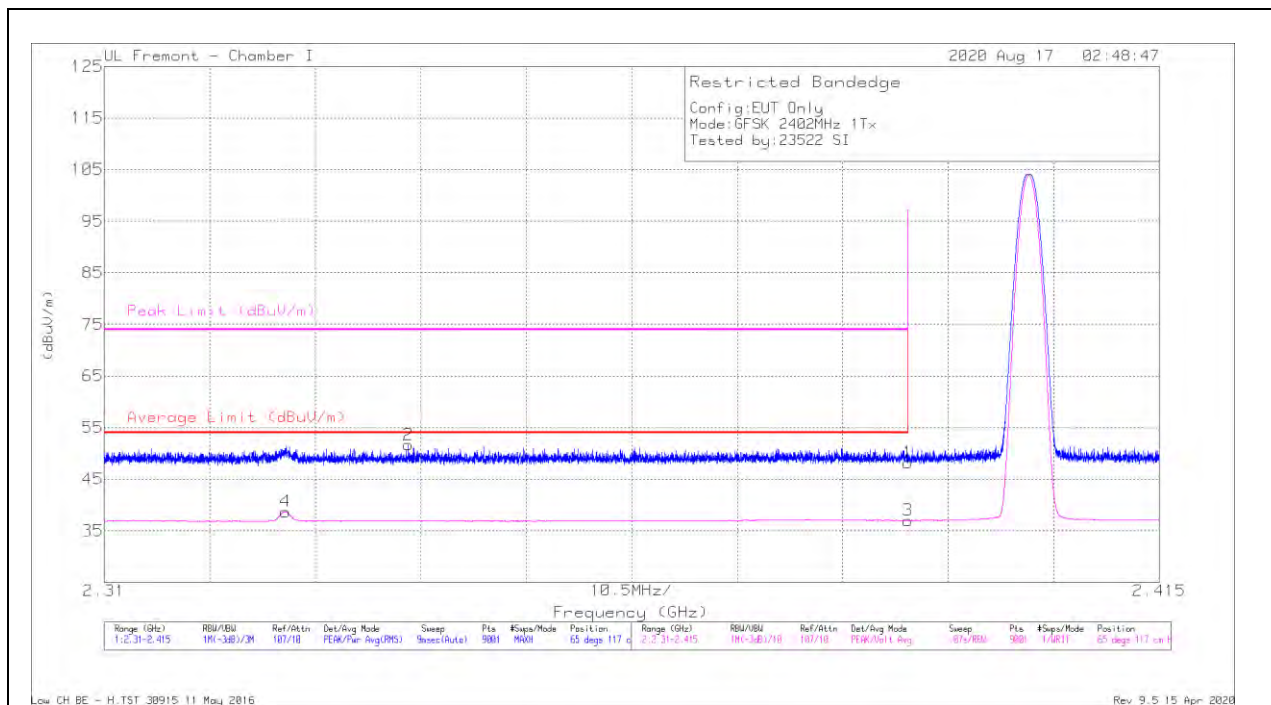
PK - Peak detector

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

### ANT 3

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



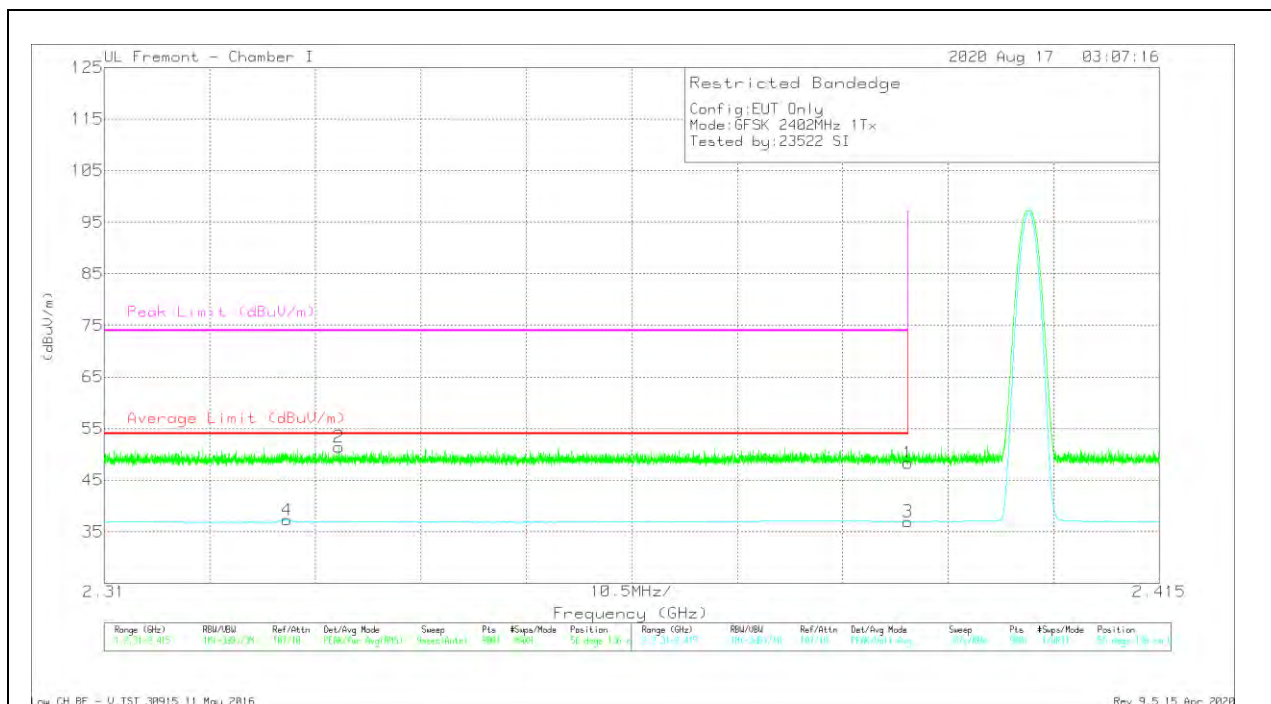
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AFT346 (dB/m) | Amp/Cbl/Filt/Par d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 33.46                | Pk   | 32            | -17.3                   | 48.16                      | -                      | -           | 74                  | -25.84         | 65             | 117         | H        |
| 2      | * 2.34024       | 37.03                | Pk   | 31.8          | -17.2                   | 51.63                      | -                      | -           | 74                  | -22.37         | 65             | 117         | H        |
| 3      | * 2.38999       | 22.27                | VA1T | 32            | -17.3                   | 36.97                      | 54                     | -17.03      | -                   | -              | 65             | 117         | H        |
| 4      | * 2.32804       | 24.19                | VA1T | 31.7          | -17.2                   | 38.69                      | 54                     | -15.31      | -                   | -              | 65             | 117         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



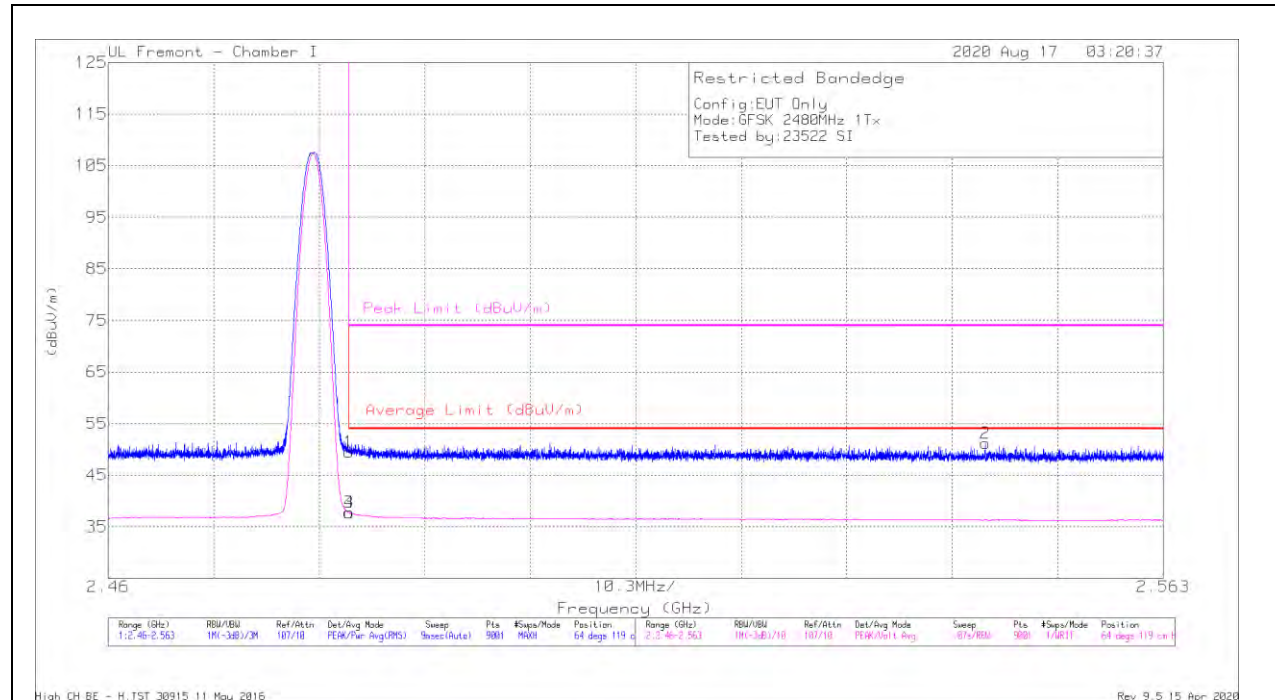
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 33.62                | Pk   | 32             | -17.3                  | 48.32                      | -                      | -           | 74                  | -25.68         | 56             | 136         | V        |
| 2      | * 2.33335       | 36.82                | Pk   | 31.8           | -17.2                  | 51.42                      | -                      | -           | 74                  | -22.58         | 56             | 136         | V        |
| 3      | * 2.38999       | 22.24                | VA1T | 32             | -17.3                  | 36.94                      | 54                     | -17.06      | -                   | -              | 56             | 136         | V        |
| 4      | * 2.32818       | 22.76                | VA1T | 31.7           | -17.2                  | 37.26                      | 54                     | -16.74      | -                   | -              | 56             | 136         | 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**

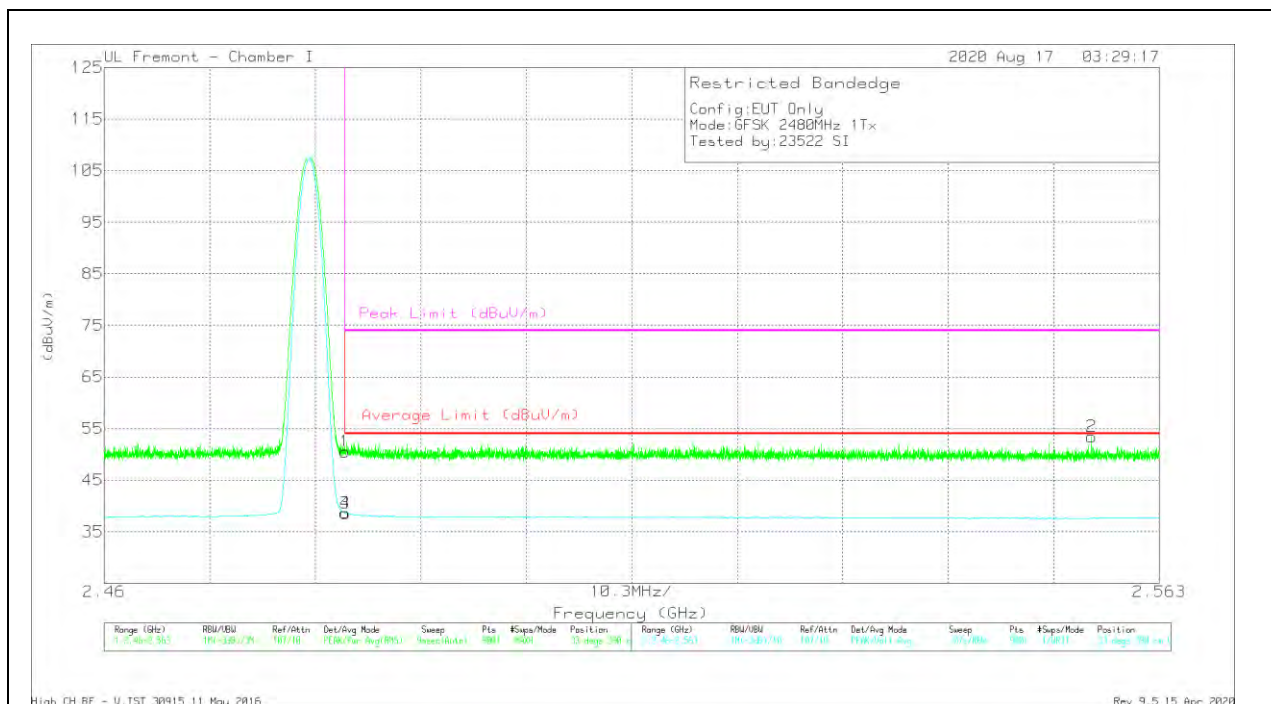
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 34.77                | Pk   | 32.4           | -17.7                  | 49.47                      | -                      | -           | 74                  | -24.53         | 64             | 119         | H        |
| 2      | 2.54562         | 36.57                | Pk   | 32.4           | -17.8                  | 51.17                      | -                      | -           | 74                  | -22.83         | 64             | 119         | H        |
| 3      | * 2.48351       | 23.04                | VA1T | 32.4           | -17.7                  | 37.74                      | 54                     | -16.26      | -                   | -              | 64             | 119         | H        |
| 4      | * 2.48354       | 23.02                | VA1T | 32.4           | -17.7                  | 37.72                      | 54                     | -16.28      | -                   | -              | 64             | 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 T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 35.83                | Pk   | 32.4           | -17.7                  | 50.53                      | -                      | -           | 74                  | -23.47         | 33             | 390         | V        |
| 2      | 2.55639         | 38.93                | Pk   | 32.3           | -17.8                  | 53.43                      | -                      | -           | 74                  | -20.57         | 33             | 390         | V        |
| 3      | * 2.48351       | 23.92                | VA1T | 32.4           | -17.7                  | 38.62                      | 54                     | -15.38      | -                   | -              | 33             | 390         | V        |
| 4      | * 2.48356       | 23.88                | VA1T | 32.4           | -17.7                  | 38.58                      | 54                     | -15.42      | -                   | -              | 33             | 390         | V        |

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

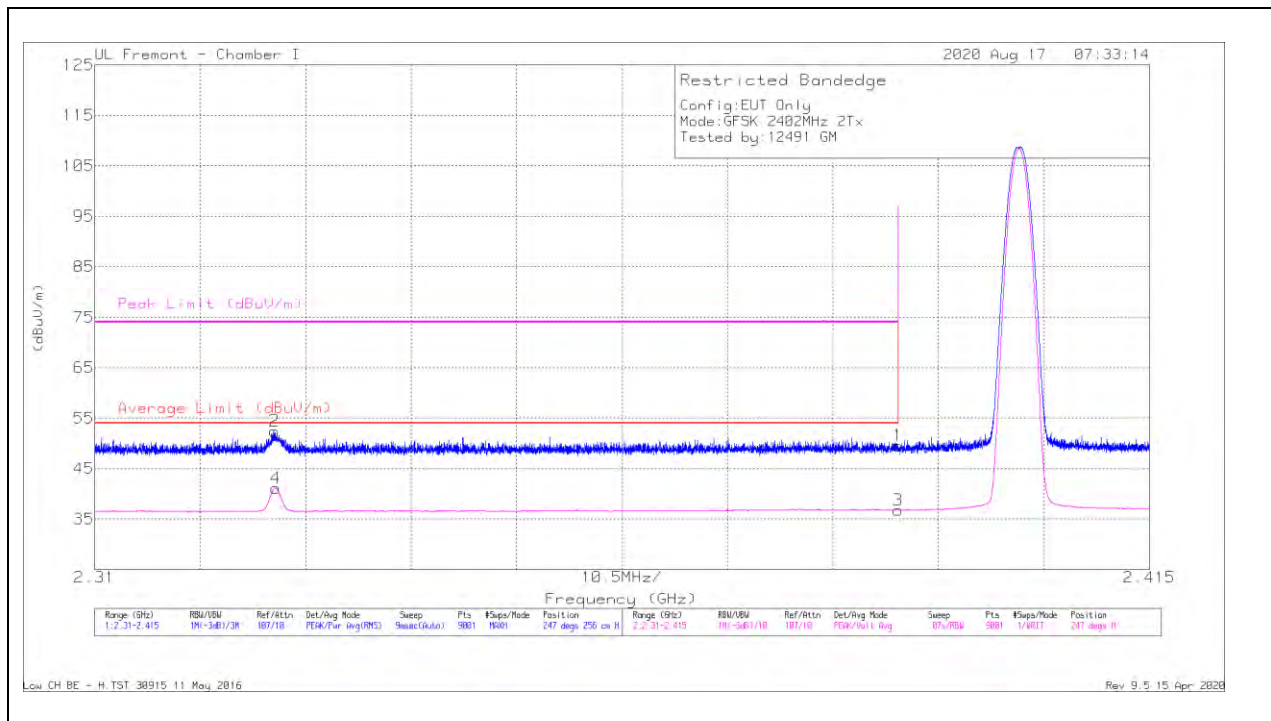
Pk - Peak detector

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

## 10.1.2. HIGH POWER BASIC DATA RATE TX BF GFSK MODULATION

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



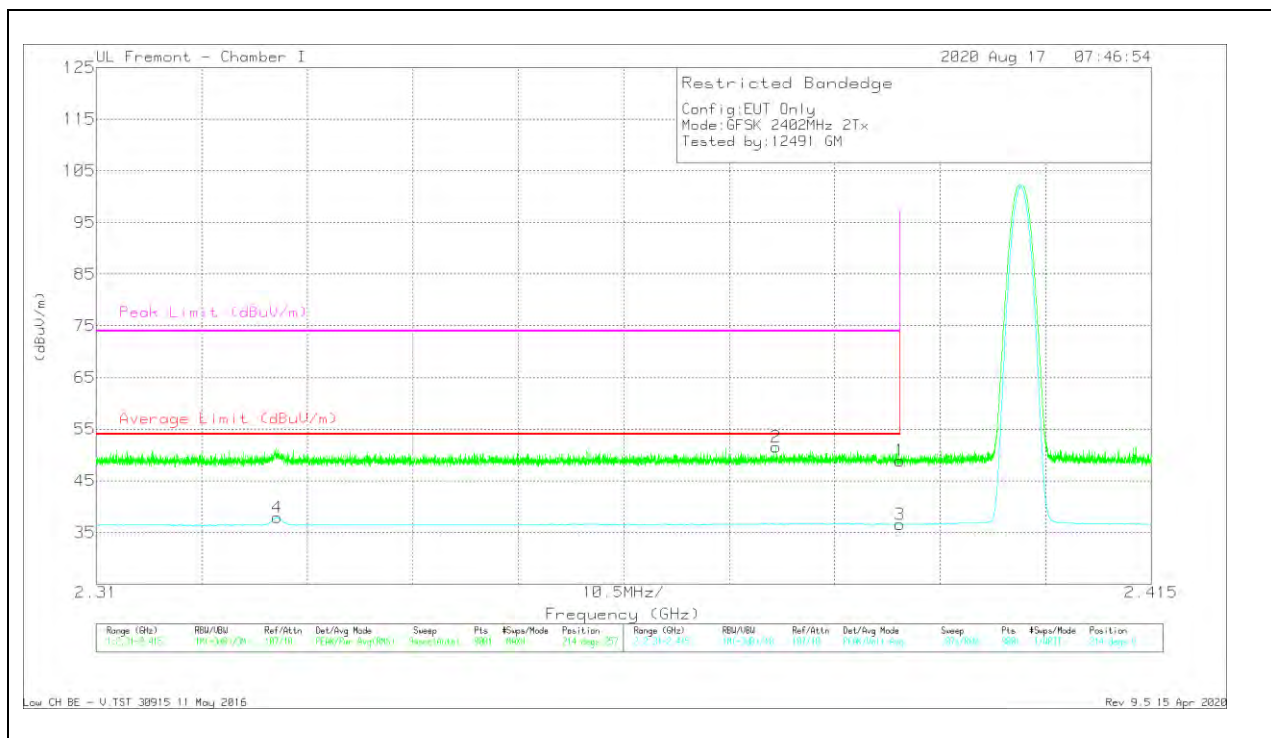
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.81                | Pk   | 32             | -17.3                  | 49.51                      | -                      | -           | 74                  | -24.49         | 247            | 256         | H        |
| 2      | * 2.32791       | 37.96                | Pk   | 31.7           | -17.2                  | 52.46                      | -                      | -           | 74                  | -21.54         | 247            | 256         | H        |
| 3      | * 2.38999       | 22.07                | VA1T | 32             | -17.3                  | 36.77                      | 54                     | -17.23      | -                   | -              | 247            | 256         | H        |
| 4      | * 2.32803       | 26.65                | VA1T | 31.7           | -17.2                  | 41.15                      | 54                     | -12.85      | -                   | -              | 247            | 256         | 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 T346 (dB/m) | Amp/Cbl/Fitr/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      | * 2.38999       | 34.19                | Pk   | 32             | -17.3                 | 48.89                      | -                      | -           | 74                  | -25.11         | 214            | 257         | V        |
| 2      | * 2.37768       | 36.82                | Pk   | 32             | -17.3                 | 51.52                      | -                      | -           | 74                  | -22.48         | 214            | 257         | V        |
| 3      | * 2.38999       | 21.85                | VA1T | 32             | -17.3                 | 36.55                      | 54                     | -17.45      | -                   | -              | 214            | 257         | V        |
| 4      | * 2.32799       | 23.37                | VA1T | 31.7           | -17.2                 | 37.87                      | 54                     | -16.13      | -                   | -              | 214            | 257         | V        |

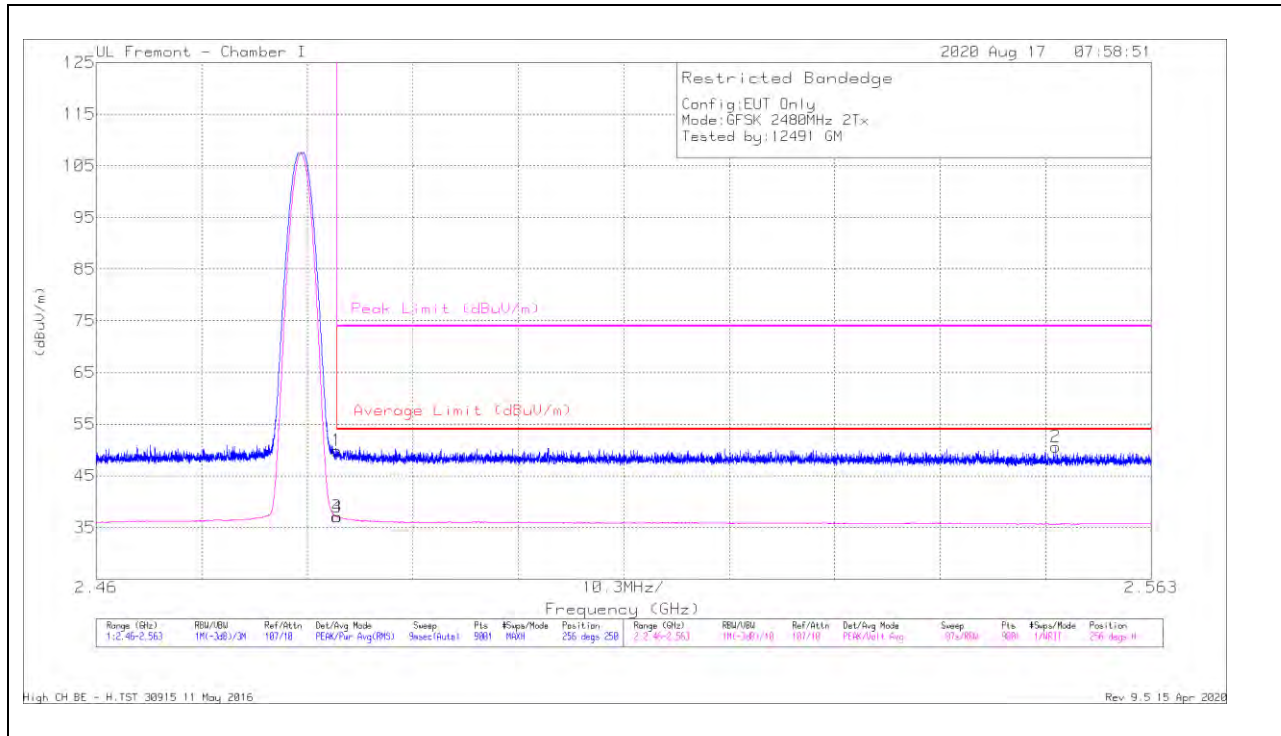
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

# **BANDEDGE (HIGH CHANNEL)**

## **HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbll/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 35.15                | Pk   | 32.4           | -17.7                   | 49.85                      | -                      | -           | 74                  | -24.15         | 256            | 250         | H        |
| 2      | 2.55366         | 36.1                 | Pk   | 32.3           | -17.8                   | 50.6                       | -                      | -           | 74                  | -23.4          | 256            | 250         | H        |
| 3      | * 2.48351       | 22.35                | VA1T | 32.4           | -17.7                   | 37.05                      | 54                     | -16.95      | -                   | -              | 256            | 250         | H        |
| 4      | * 2.48354       | 22.33                | VA1T | 32.4           | -17.7                   | 37.03                      | 54                     | -16.97      | -                   | -              | 256            | 250         | H        |

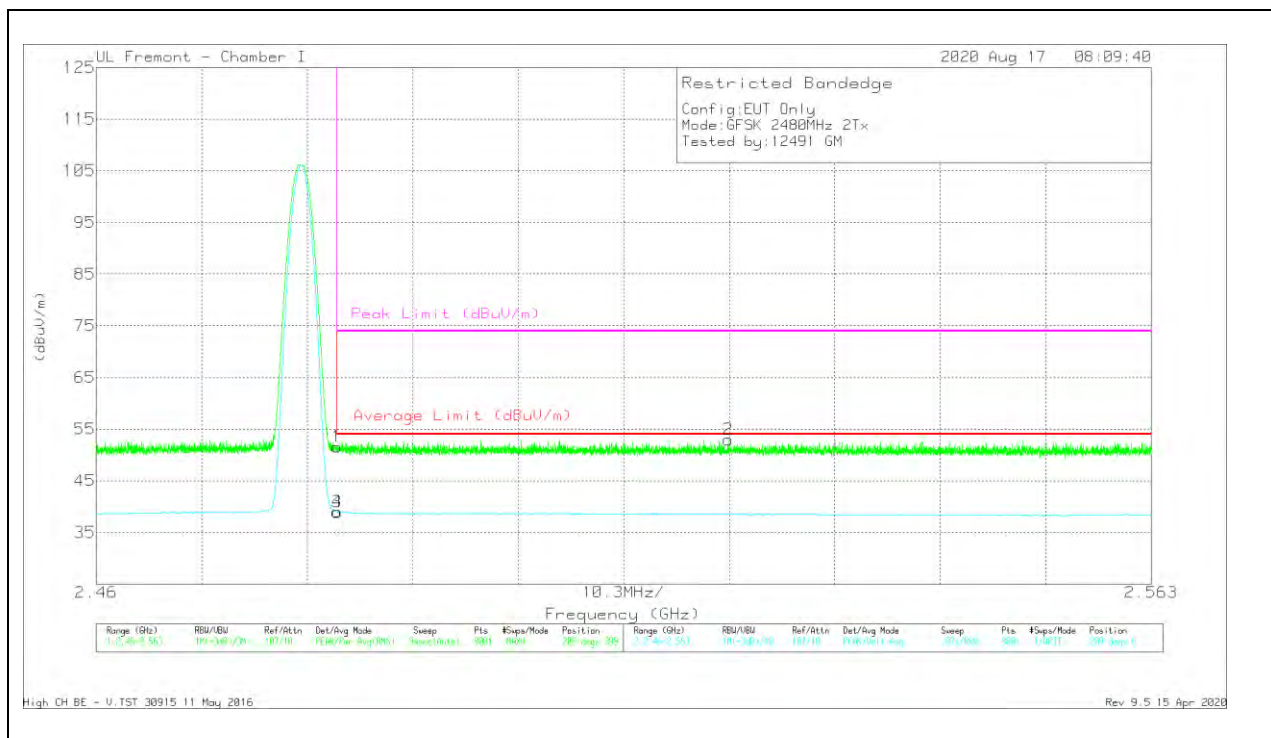
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T346 (dB/m) | Amp/Cbl/Fitr/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      | * 2.48351       | 36.9                 | Pk   | 32.4           | -17.7                 | 51.6                       | -                      | -           | 74                  | -22.4          | 209            | 399         | V        |
| 2      | 2.52172         | 38.25                | Pk   | 32.5           | -17.8                 | 52.95                      | -                      | -           | 74                  | -21.05         | 209            | 399         | V        |
| 3      | * 2.48351       | 24.27                | VA1T | 32.4           | -17.7                 | 38.97                      | 54                     | -15.03      | -                   | -              | 209            | 399         | V        |
| 4      | * 2.48354       | 24.25                | VA1T | 32.4           | -17.7                 | 38.95                      | 54                     | -15.05      | -                   | -              | 209            | 399         | V        |

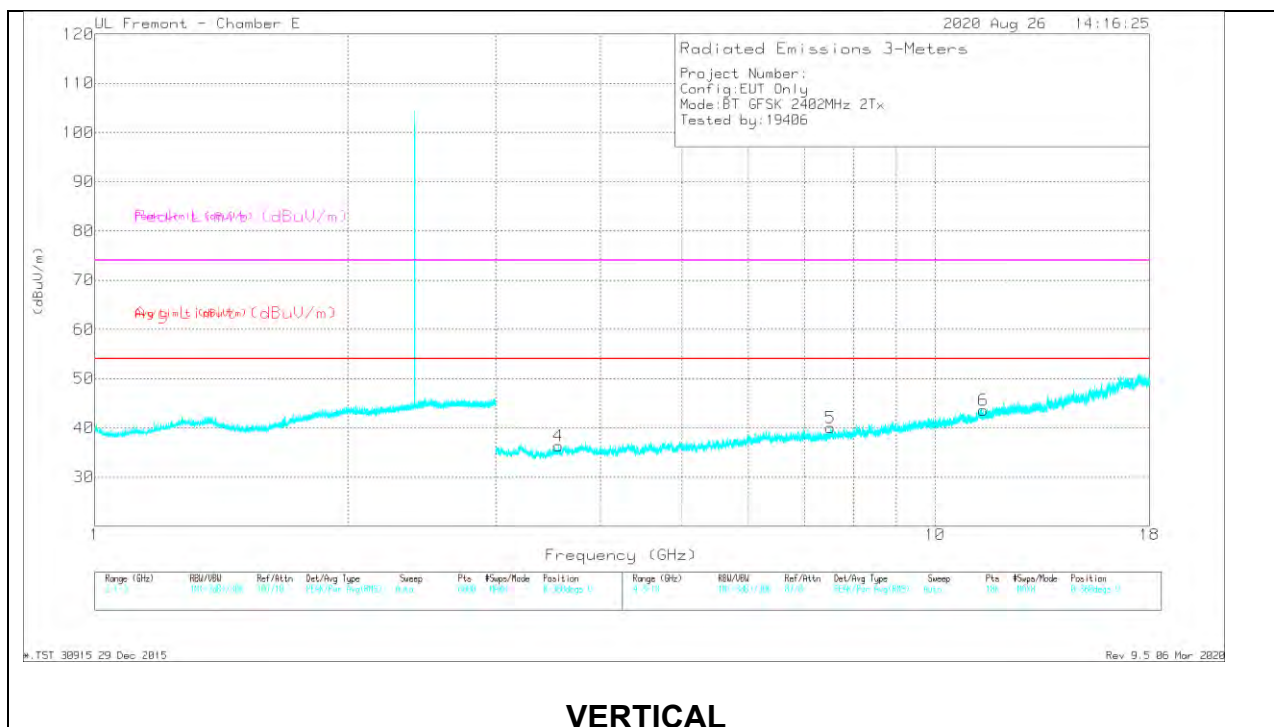
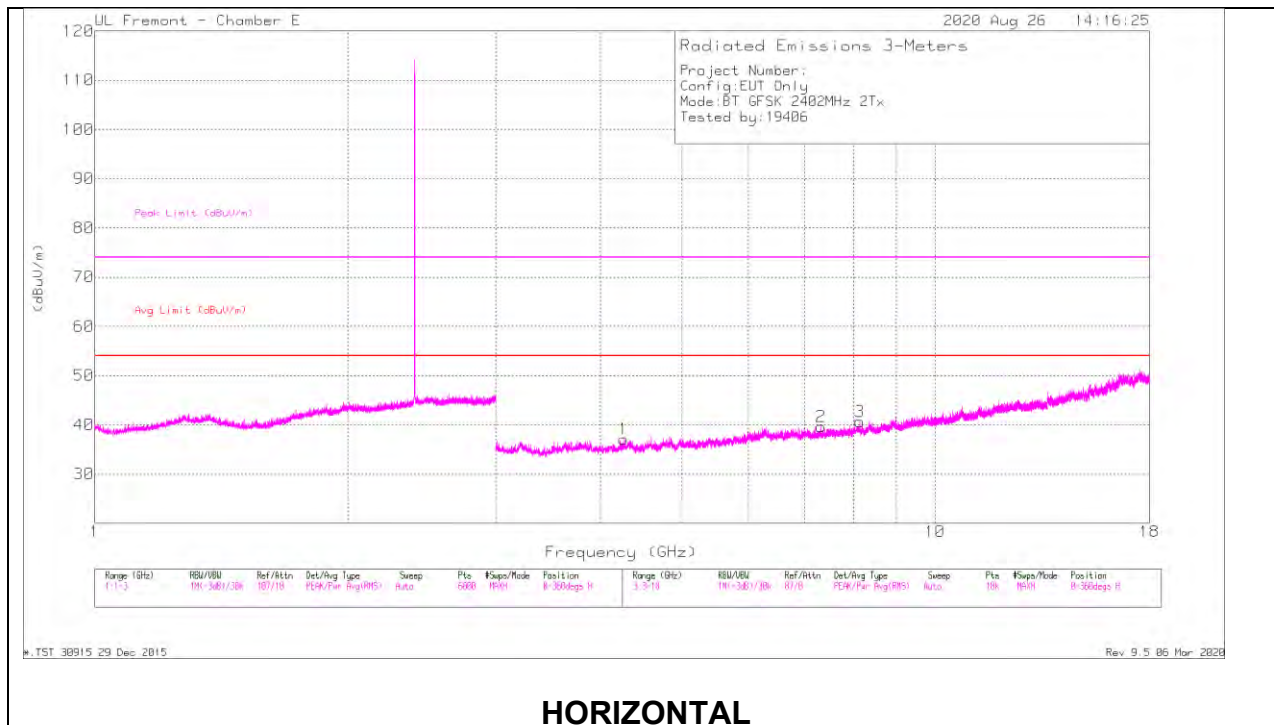
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

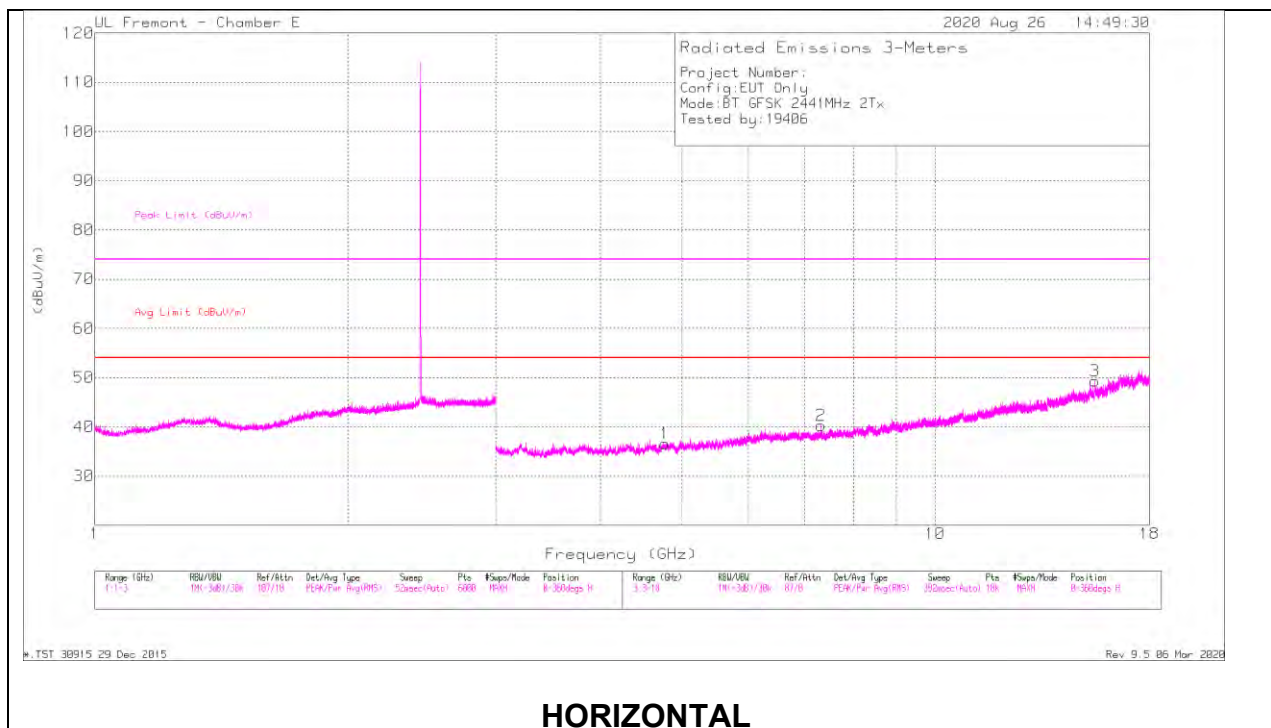
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T712 (dB/m) | Amp/Cbl/Filtr/P ad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 4.25832       | 41.24                | PKFH | 33.5           | -32.4                   | 42.34                      | -                  | -           | 74                  | -31.66         | 86             | 156         | H        |
|        | * 4.26          | 29.35                | VA1T | 33.5           | -32.4                   | 30.45                      | 54                 | -23.55      | -                   | -              | 86             | 156         | H        |
| 2      | * 7.31586       | 37.06                | PKFH | 35.5           | -28.1                   | 44.46                      | -                  | -           | 74                  | -29.54         | 214            | 286         | H        |
|        | * 7.31721       | 25.21                | VA1T | 35.5           | -28.1                   | 32.61                      | 54                 | -21.39      | -                   | -              | 214            | 286         | H        |
| 3      | * 8.13523       | 37.3                 | PKFH | 35.8           | -27.3                   | 45.8                       | -                  | -           | 74                  | -28.2          | 145            | 322         | H        |
|        | * 8.13622       | 25.29                | VA1T | 35.8           | -27.3                   | 33.79                      | 54                 | -20.21      | -                   | -              | 145            | 322         | H        |
| 4      | * 3.56528       | 41.89                | PKFH | 33.2           | -33.6                   | 41.49                      | -                  | -           | 74                  | -32.51         | 275            | 223         | V        |
|        | * 3.56508       | 30.29                | VA1T | 33.2           | -33.6                   | 29.89                      | 54                 | -24.11      | -                   | -              | 275            | 223         | V        |
| 5      | * 7.51082       | 37.55                | PKFH | 35.7           | -27.5                   | 45.75                      | -                  | -           | 74                  | -28.25         | 269            | 255         | V        |
|        | * 7.51062       | 24.97                | VA1T | 35.7           | -27.5                   | 33.17                      | 54                 | -20.83      | -                   | -              | 269            | 255         | V        |
| 6      | * 11.42284      | 35.25                | PKFH | 37.9           | -23.9                   | 49.25                      | -                  | -           | 74                  | -24.75         | 175            | 230         | V        |
|        | * 11.42072      | 23.01                | VA1T | 37.9           | -23.9                   | 37.01                      | 54                 | -16.99      | -                   | -              | 175            | 230         | V        |

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

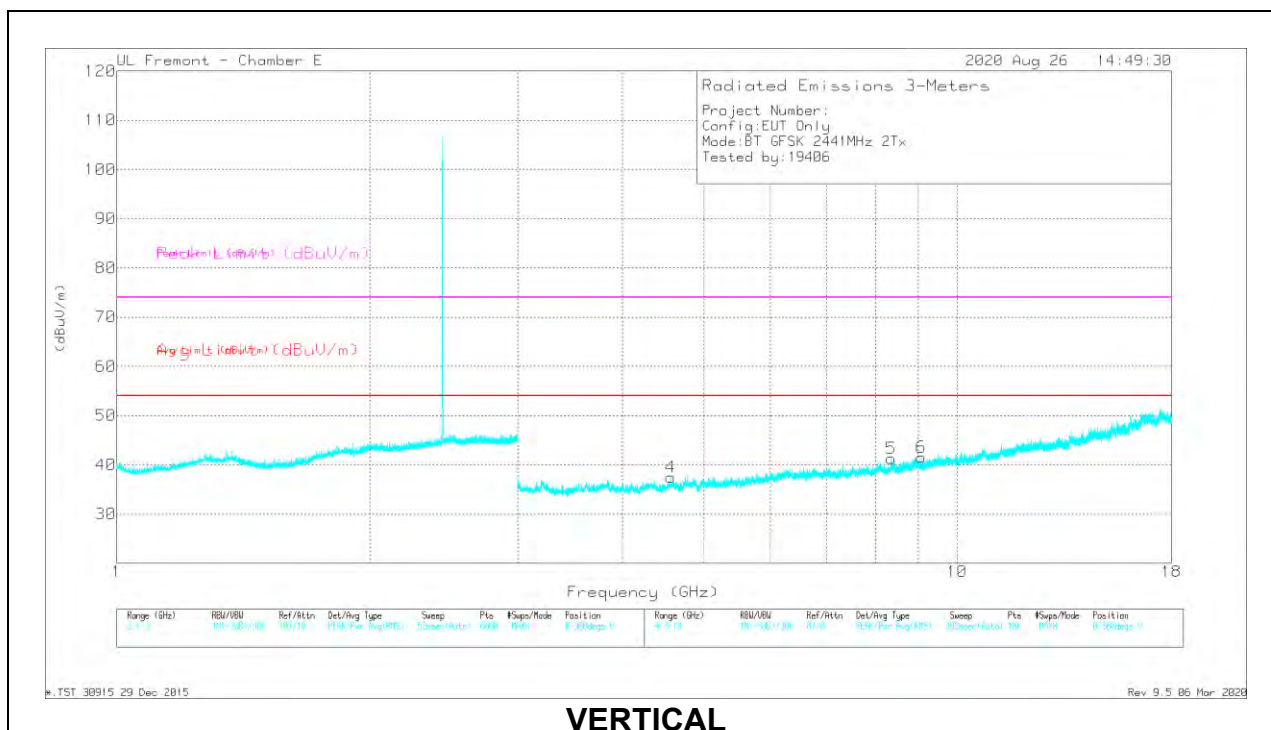
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak  
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

\* TST 30915 29 Dec 2015  
Rev 9.5 06 Mar 2020

## MID CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T712 (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      | * 4.77024       | 40.53                | PKFH | 34.2           | -32                     | 42.73                      | -                  | -           | 74                  | -31.27         | 119            | 165         | H        |
|        | * 4.76818       | 28.65                | VA1T | 34.2           | -32                     | 30.85                      | 54                 | -23.15      | -                   | -              | 119            | 165         | H        |
| 2      | * 7.32215       | 37.28                | PKFH | 35.6           | -28.2                   | 44.68                      | -                  | -           | 74                  | -29.32         | 171            | 218         | H        |
|        | * 7.32295       | 25.8                 | VA1T | 35.6           | -28.2                   | 33.2                       | 54                 | -20.8       | -                   | -              | 171            | 218         | H        |
| 3      | * 15.50263      | 33.46                | PKFH | 40.3           | -19.5                   | 54.26                      | -                  | -           | 74                  | -19.74         | 300            | 274         | H        |
|        | * 15.50345      | 22.04                | VA1T | 40.3           | -19.5                   | 42.84                      | 54                 | -11.16      | -                   | -              | 300            | 274         | H        |
| 4      | * 4.56443       | 41.5                 | PKFH | 34.2           | -32.2                   | 43.5                       | -                  | -           | 74                  | -30.5          | 224            | 187         | V        |
|        | * 4.56709       | 29.14                | VA1T | 34.2           | -32.2                   | 31.14                      | 54                 | -22.86      | -                   | -              | 224            | 187         | V        |
| 5      | * 8.34843       | 36.94                | PKFH | 35.9           | -26.2                   | 46.64                      | -                  | -           | 74                  | -27.36         | 171            | 156         | V        |
|        | * 8.3478        | 25.11                | VA1T | 35.9           | -26.2                   | 34.81                      | 54                 | -19.19      | -                   | -              | 171            | 156         | V        |
| 6      | * 9.07192       | 35.98                | PKFH | 36.1           | -25.9                   | 46.18                      | -                  | -           | 74                  | -27.82         | 285            | 254         | V        |
|        | * 9.07145       | 24.28                | VA1T | 36.1           | -25.9                   | 34.48                      | 54                 | -19.52      | -                   | -              | 285            | 254         | 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

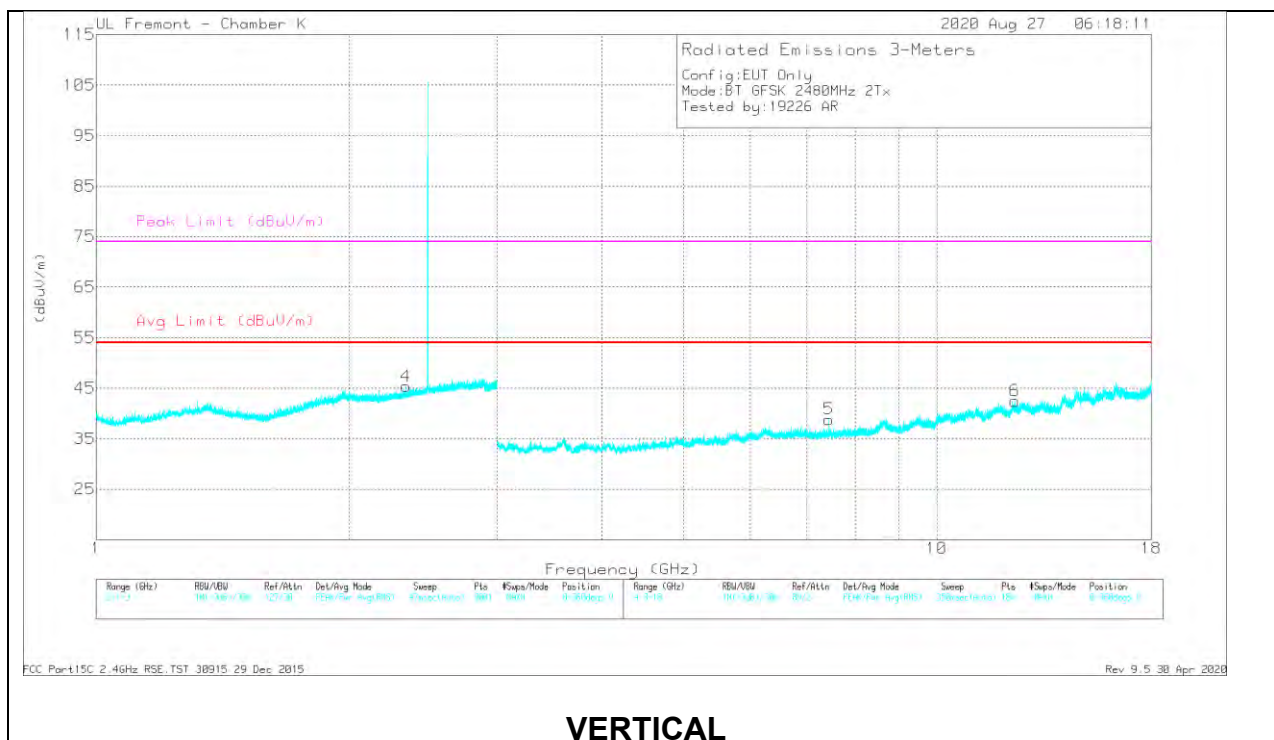
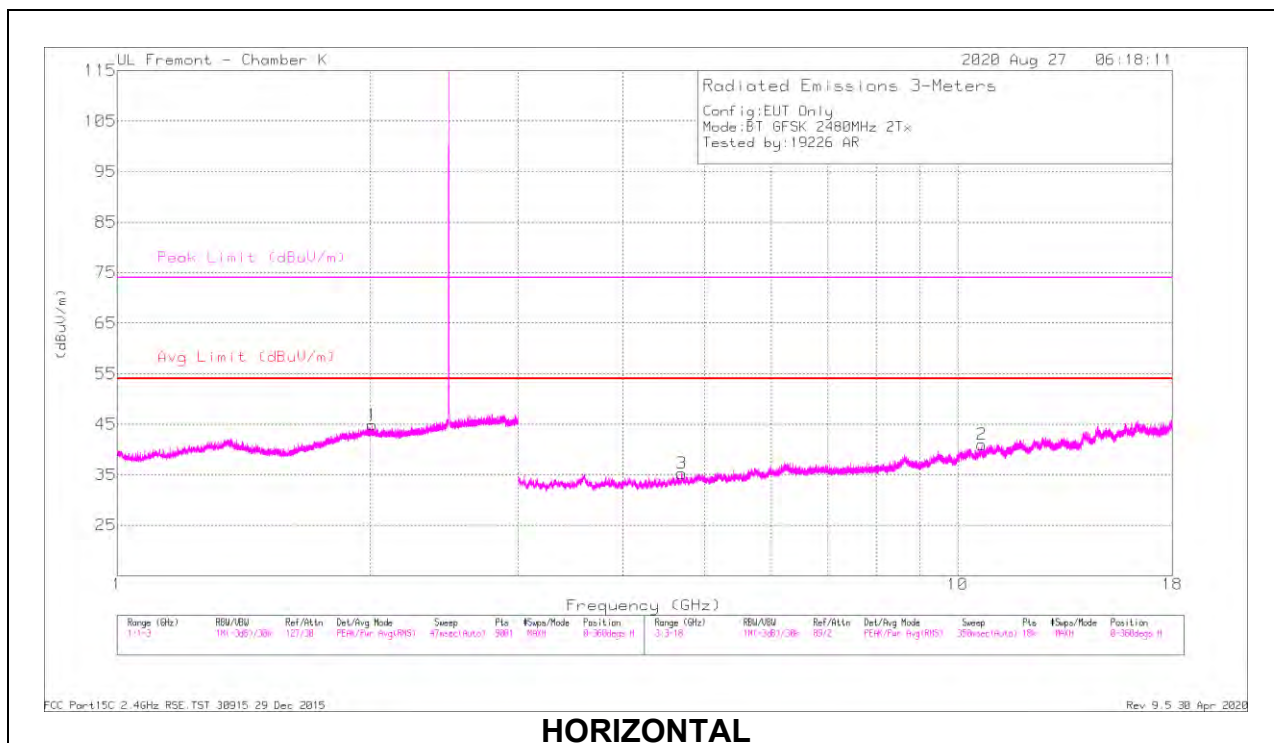
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

\*.TST 30915 29 Dec 2015

Rev 9.5 06 Mar 2020



## HIGH CHANNEL RESULTS



## RADIATED EMISSIONS

### Radiated Emissions

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Cbl/Ftr/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      | 2.01014         | 55.66                | PKFH | 31.5              | -35.8                 | 51.36                      | -                  | -           | -                   | -              | 296            | 364         | H        |
| 4      | * 2.33862       | 56.33                | PKFH | 31.7              | -35.2                 | 52.83                      | -                  | -           | 74                  | -21.17         | 279            | 222         | V        |
|        | * 2.33871       | 42.69                | VA1T | 31.7              | -35.2                 | 39.19                      | 54                 | -14.81      | -                   | -              | 279            | 222         | V        |
| 2      | * 10.67953      | 46.77                | PKFH | 37.9              | -36.3                 | 48.37                      | -                  | -           | 74                  | -25.63         | 323            | 241         | H        |
|        | * 10.68234      | 33.16                | VA1T | 37.9              | -36.3                 | 34.76                      | 54                 | -19.24      | -                   | -              | 323            | 241         | H        |
| 3      | * 4.69435       | 49.54                | PKFH | 34                | -41.4                 | 42.14                      | -                  | -           | 74                  | -31.86         | 9              | 155         | H        |
|        | * 4.69437       | 36.61                | VA1T | 34                | -41.4                 | 29.21                      | 54                 | -24.79      | -                   | -              | 9              | 155         | H        |
| 5      | * 7.43953       | 53.81                | PKFH | 35.7              | -38                   | 51.51                      | -                  | -           | 74                  | -22.49         | 240            | 97          | V        |
|        | * 7.43998       | 48.36                | VA1T | 35.7              | -38                   | 46.06                      | 54                 | -7.94       | -                   | -              | 240            | 97          | V        |
| 6      | * 12.38873      | 45.18                | PKFH | 39                | -34.3                 | 49.88                      | -                  | -           | 74                  | -24.12         | 148            | 110         | V        |
|        | * 12.38895      | 31.63                | VA1T | 39                | -34.3                 | 36.33                      | 54                 | -17.67      | -                   | -              | 148            | 110         | 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

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

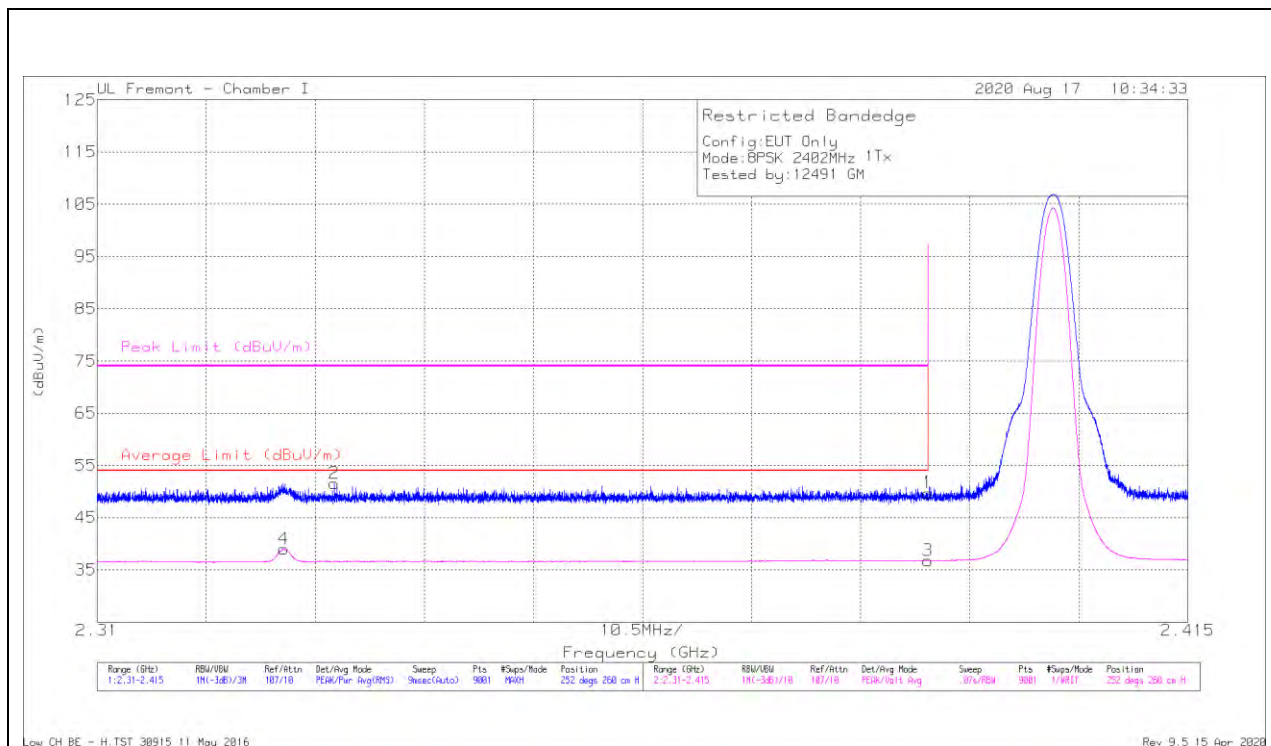
Rev 9.5 30 Apr 2020

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

#### ANT 4

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



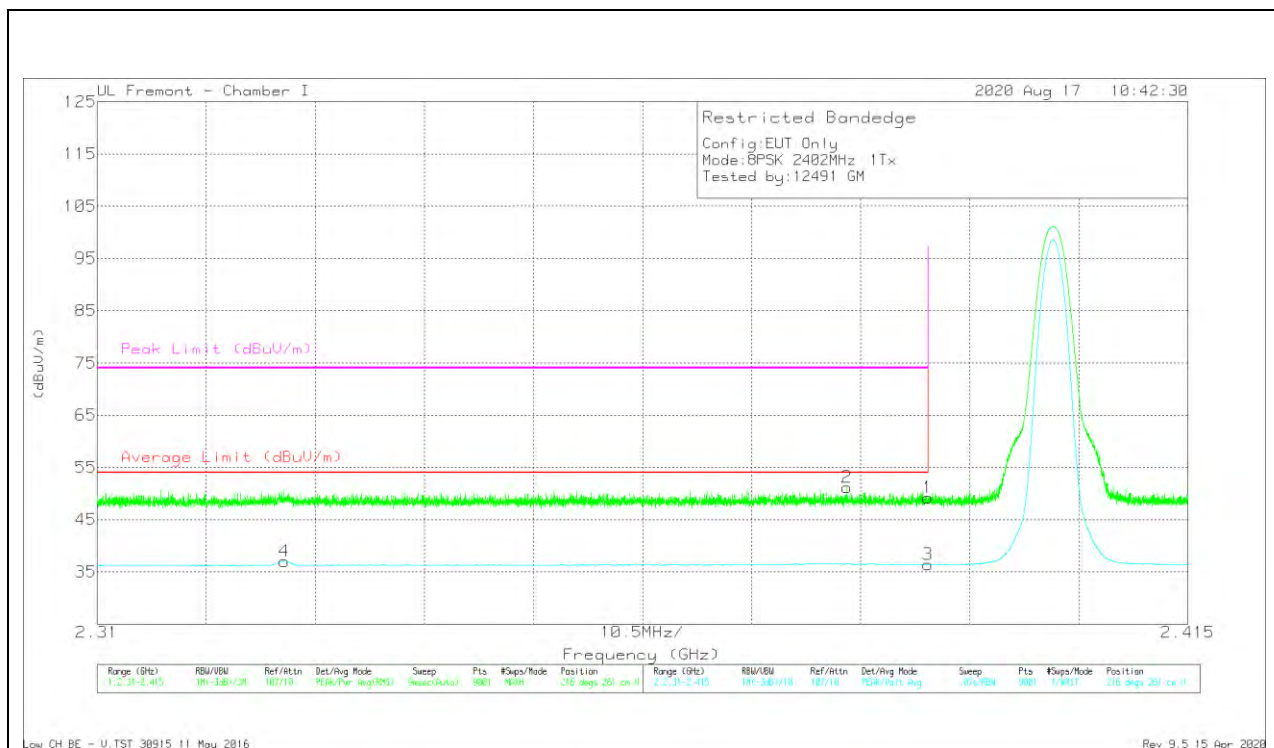
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.03                | Pk   | 32             | -17.3                  | 49.73                      | -                      | -           | 74                  | -24.27         | 252            | 260         | H        |
| 2      | * 2.33282       | 36.91                | Pk   | 31.8           | -17.2                  | 51.51                      | -                      | -           | 74                  | -22.49         | 252            | 260         | H        |
| 3      | * 2.38999       | 22.05                | VA1T | 32             | -17.3                  | 36.75                      | 54                     | -17.25      | -                   | -              | 252            | 260         | H        |
| 4      | * 2.32794       | 24.44                | VA1T | 31.7           | -17.2                  | 38.94                      | 54                     | -15.06      | -                   | -              | 252            | 260         | 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 T346 (dB/m) | Amp/Cbll/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.53                | Pk   | 32             | -17.3                   | 49.23                      | -                      | -           | 74                  | -24.77         | 216            | 261         | V        |
| 2      | * 2.3822        | 36.44                | Pk   | 32             | -17.3                   | 51.14                      | -                      | -           | 74                  | -22.86         | 216            | 261         | V        |
| 3      | * 2.38999       | 21.66                | VA1T | 32             | -17.3                   | 36.36                      | 54                     | -17.64      | -                   | -              | 216            | 261         | V        |
| 4      | * 2.32803       | 22.53                | VA1T | 31.7           | -17.2                   | 37.03                      | 54                     | -16.97      | -                   | -              | 216            | 261         | V        |

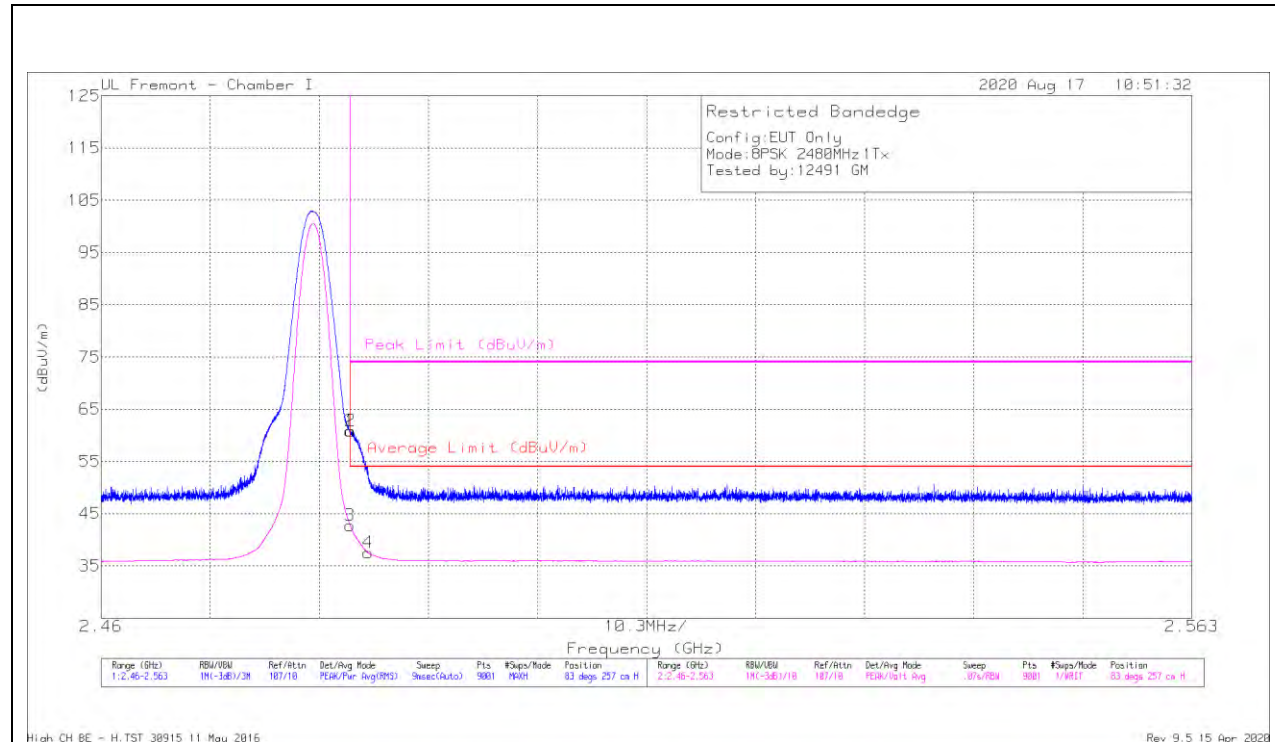
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 46.15                | Pk   | 32.4           | -17.7                  | 60.85                      | -                      | -           | 74                  | -13.15         | 83             | 257         | H        |
| 2      | * 2.48355       | 46.15                | Pk   | 32.4           | -17.7                  | 60.85                      | -                      | -           | 74                  | -13.15         | 83             | 257         | H        |
| 3      | * 2.48351       | 28.01                | VA1T | 32.4           | -17.7                  | 42.71                      | 54                     | -11.29      | -                   | -              | 83             | 257         | H        |
| 4      | * 2.48522       | 22.67                | VA1T | 32.5           | -17.7                  | 37.47                      | 54                     | -16.53      | -                   | -              | 83             | 257         | H        |

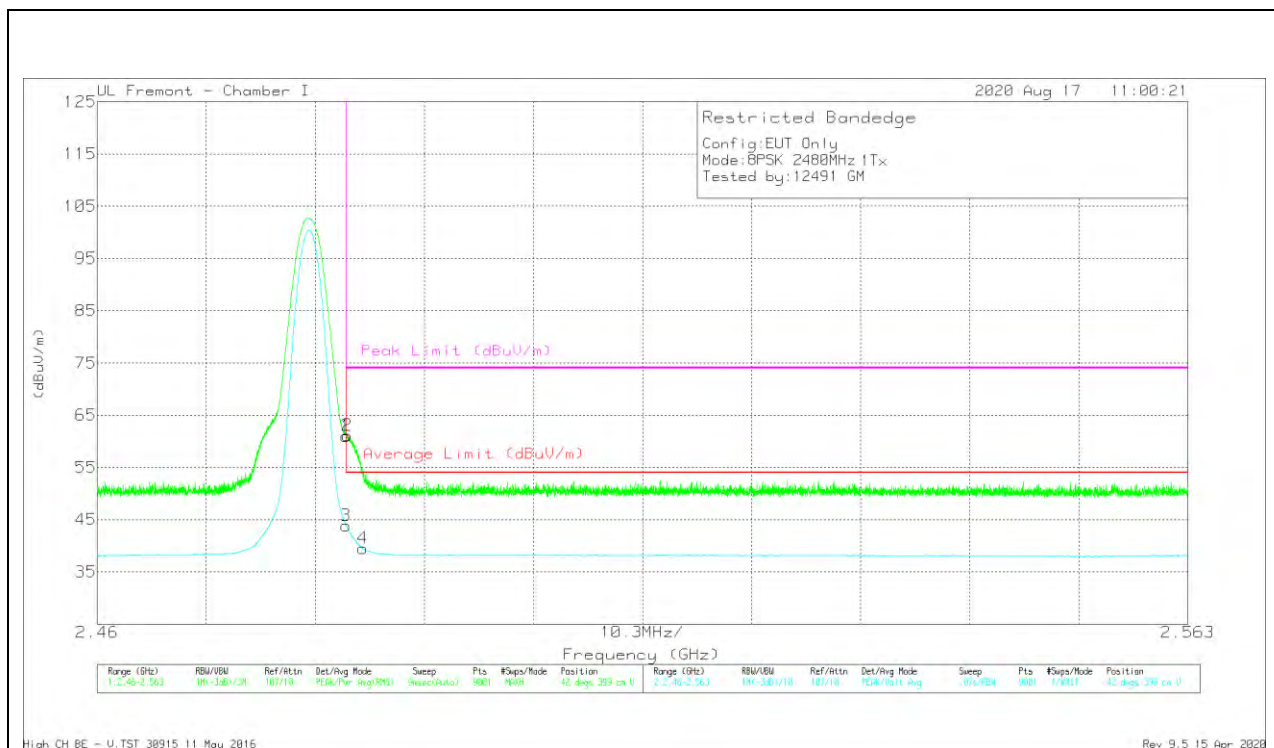
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T346 (dB/m) | Amp/Cbll/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 46.26                | Pk   | 32.4           | -17.7                   | 60.96                      | -                      | -           | 74                  | -13.04         | 42             | 399         | V        |
| 2      | * 2.48364       | 46.43                | Pk   | 32.4           | -17.7                   | 61.13                      | -                      | -           | 74                  | -12.87         | 42             | 399         | V        |
| 3      | * 2.48351       | 29.17                | VA1T | 32.4           | -17.7                   | 43.87                      | 54                     | -10.13      | -                   | -              | 42             | 399         | V        |
| 4      | * 2.48509       | 24.66                | VA1T | 32.5           | -17.7                   | 39.46                      | 54                     | -14.54      | -                   | -              | 42             | 399         | V        |

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

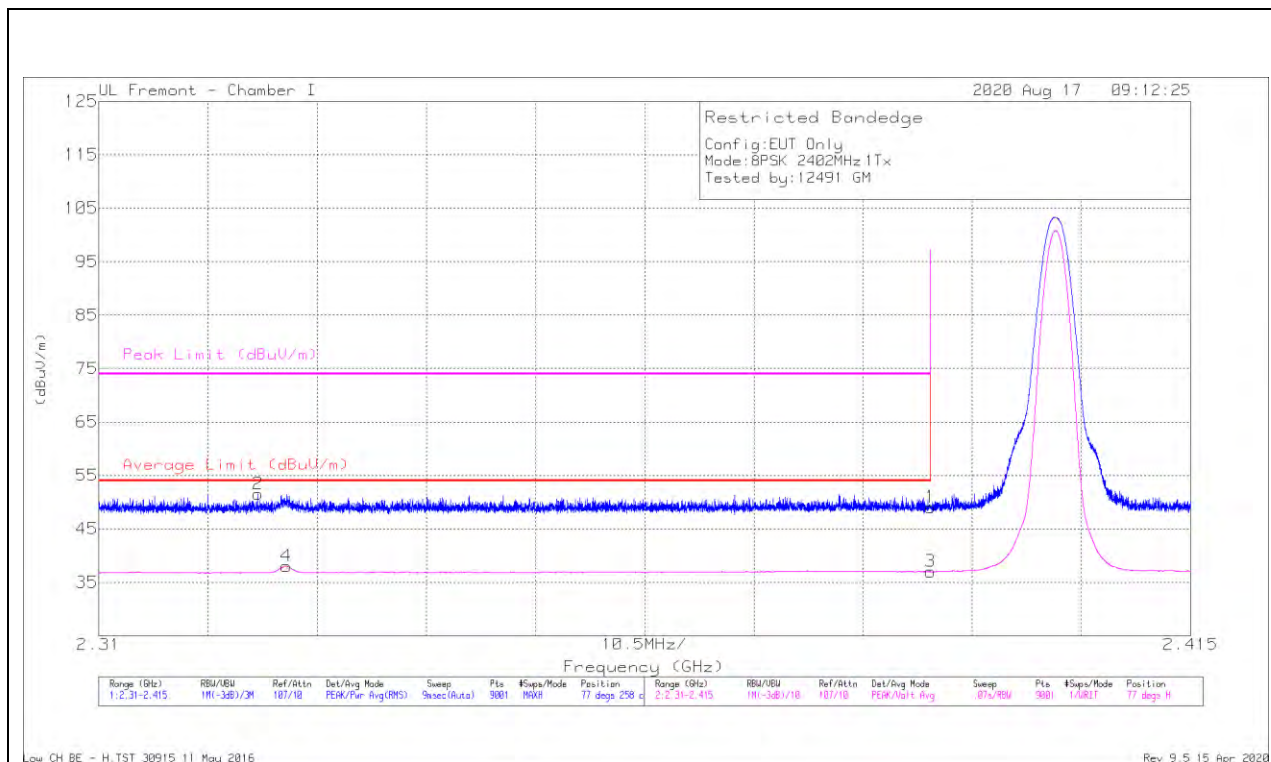
Pk - Peak detector

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

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



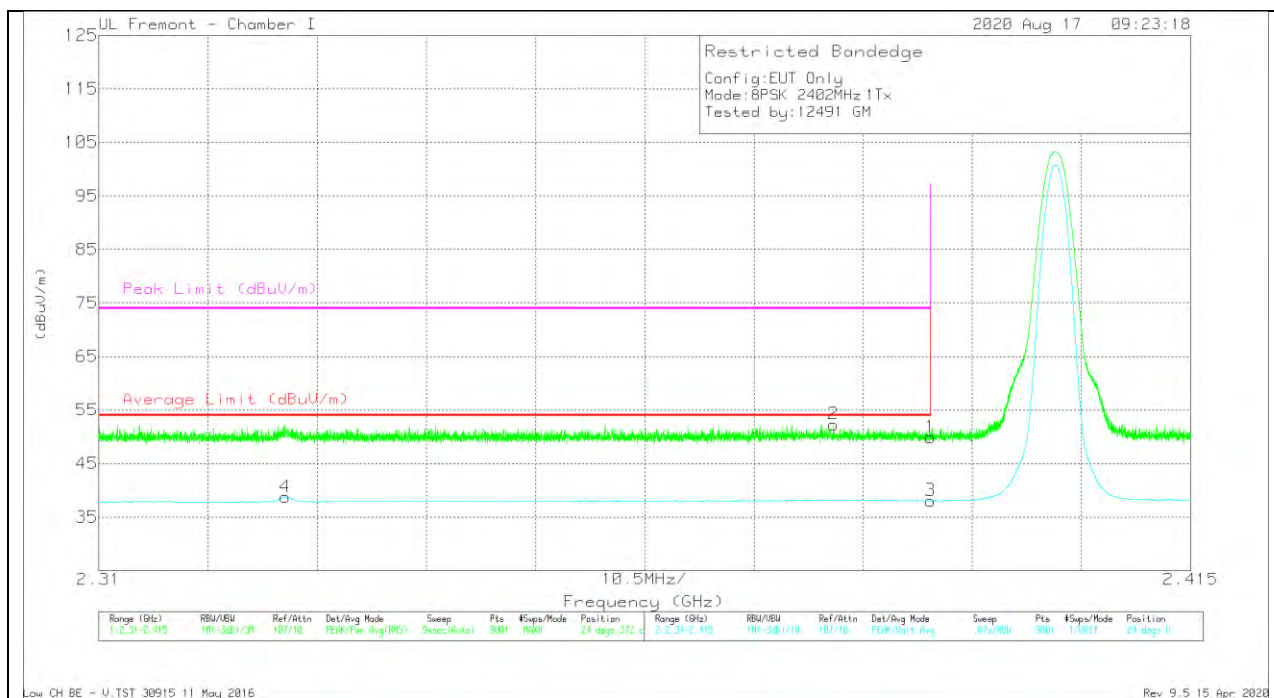
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Filtz/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.31                | Pk   | 32             | -17.3                   | 49.01                      | -                      | -           | 74                  | -24.99         | 77             | 258         | H        |
| 2      | * 2.32532       | 37.03                | Pk   | 31.7           | -17.2                   | 51.53                      | -                      | -           | 74                  | -22.47         | 77             | 258         | H        |
| 3      | * 2.38999       | 22.29                | VA1T | 32             | -17.3                   | 36.99                      | 54                     | -17.01      | -                   | -              | 77             | 258         | H        |
| 4      | * 2.32804       | 23.5                 | VA1T | 31.7           | -17.2                   | 38                         | 54                     | -16         | -                   | -              | 77             | 258         | 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 T346 (dB/m) | Amp/Cbl/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degr) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.2                 | Pk   | 32             | -17.3                 | 49.9                       | -                      | -           | 74                  | -24.1          | 24             | 372         | V        |
| 2      | * 2.38068       | 37.62                | Pk   | 32             | -17.3                 | 52.32                      | -                      | -           | 74                  | -21.68         | 24             | 372         | V        |
| 3      | * 2.38999       | 23.36                | VA1T | 32             | -17.3                 | 38.06                      | 54                     | -15.94      | -                   | -              | 24             | 372         | V        |
| 4      | * 2.32794       | 24.25                | VA1T | 31.7           | -17.2                 | 38.75                      | 54                     | -15.25      | -                   | -              | 24             | 372         | V        |

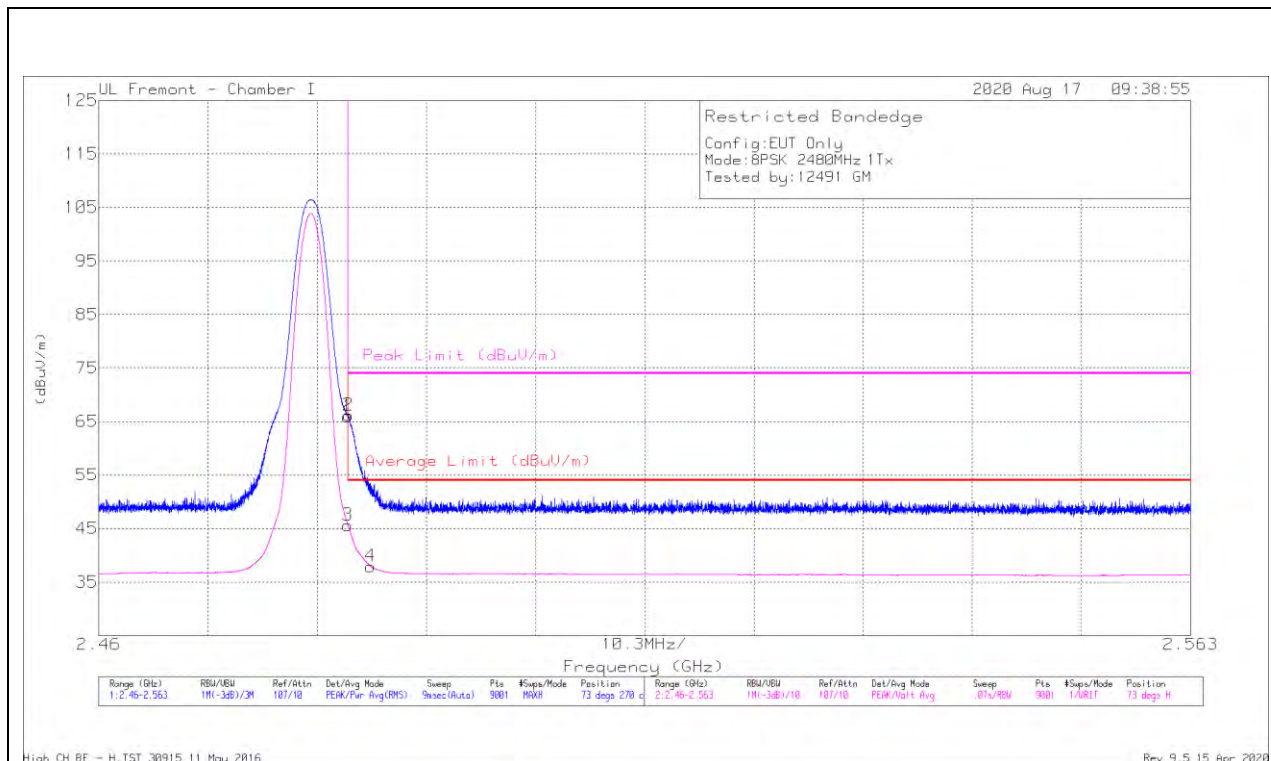
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



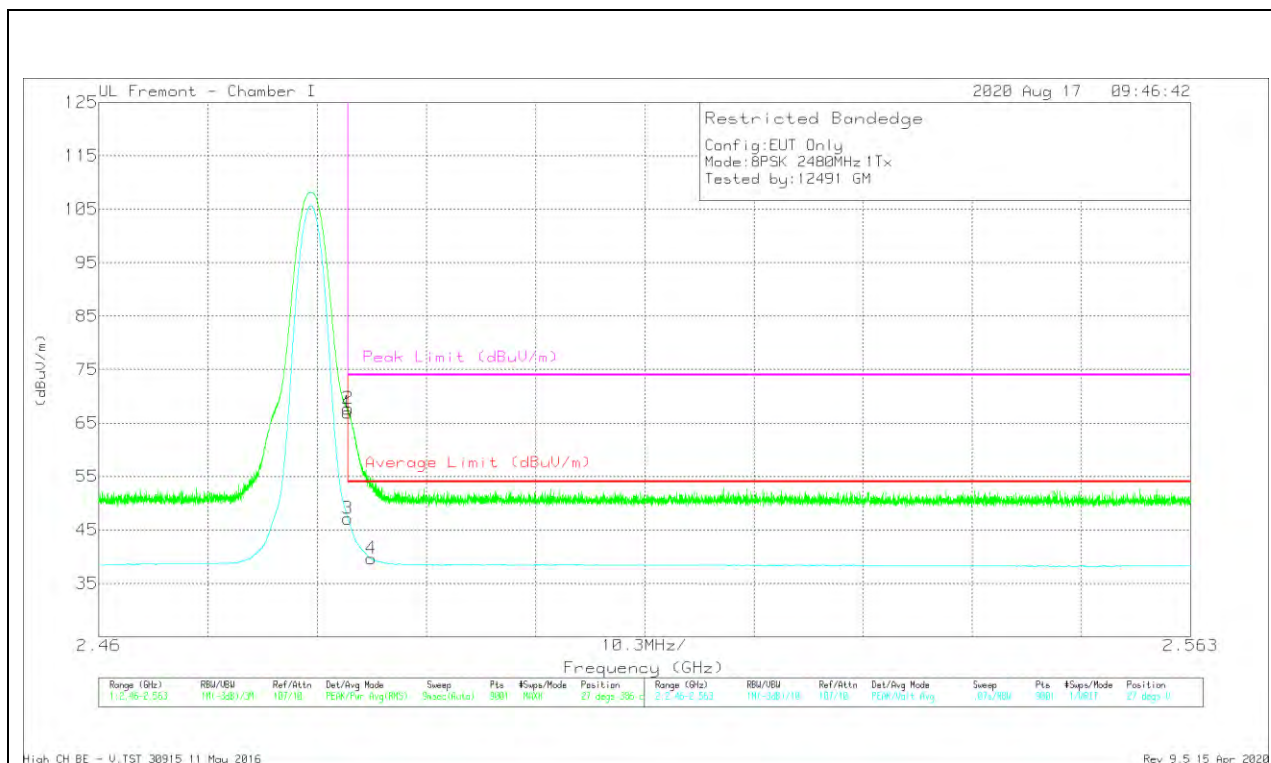
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/CbI/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 51.29                | Pk   | 32.4           | -17.7                 | 65.99                      | -                      | -           | 74                  | -8.01          | 73             | 270         | H        |
| 2      | * 2.48354       | 51.48                | Pk   | 32.4           | -17.7                 | 66.18                      | -                      | -           | 74                  | -7.82          | 73             | 270         | H        |
| 3      | * 2.48351       | 30.9                 | VA1T | 32.4           | -17.7                 | 45.6                       | 54                     | -8.4        | -                   | -              | 73             | 270         | H        |
| 4      | * 2.48565       | 23.13                | VA1T | 32.5           | -17.7                 | 37.93                      | 54                     | -16.07      | -                   | -              | 73             | 270         | 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 T346 (dB/m) | Amp/Cbll/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 52.26                | Pk   | 32.4           | -17.7                    | 66.96                      | -                      | -           | 74                  | -7.04          | 27             | 386         | V        |
| 2      | * 2.48352       | 53                   | Pk   | 32.4           | -17.7                    | 67.7                       | -                      | -           | 74                  | -6.3           | 27             | 386         | V        |
| 3      | * 2.48351       | 32.42                | VA1T | 32.4           | -17.7                    | 47.12                      | 54                     | -6.88       | -                   | -              | 27             | 386         | V        |
| 4      | * 2.48569       | 24.82                | VA1T | 32.5           | -17.7                    | 39.62                      | 54                     | -14.38      | -                   | -              | 27             | 386         | V        |

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

Pk - Peak detector

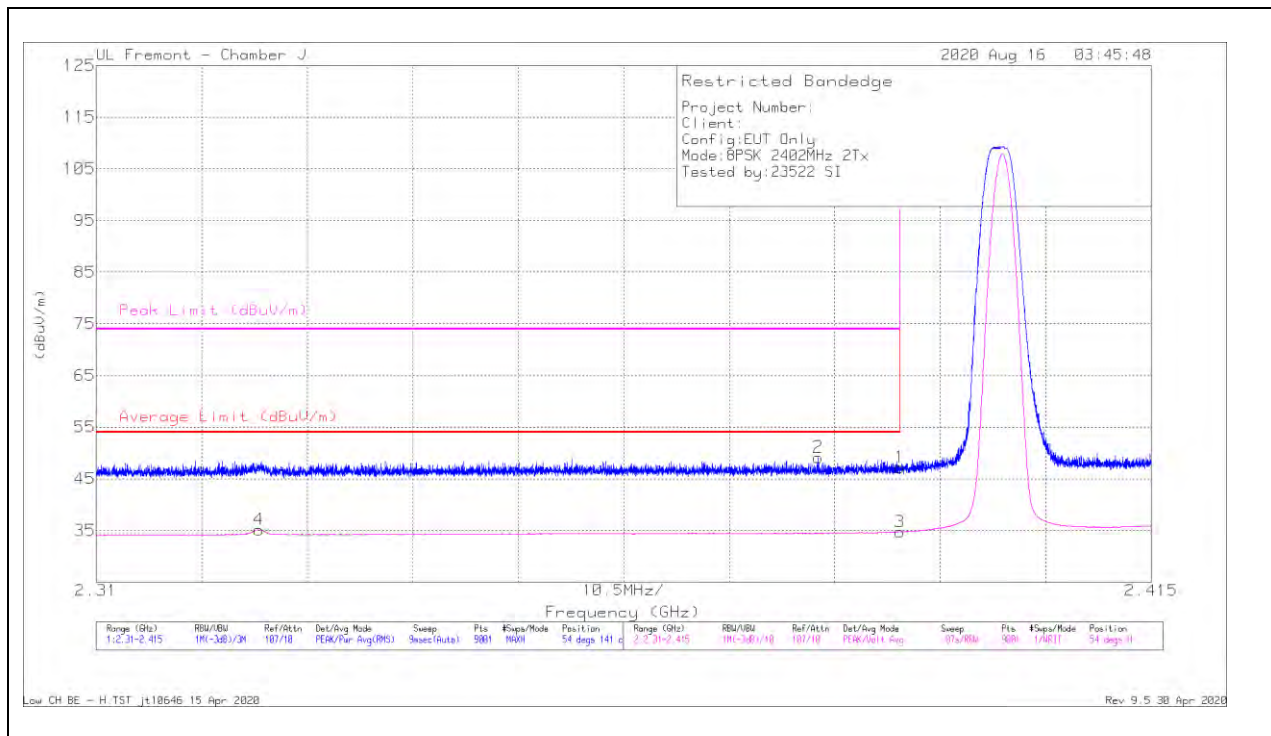
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration



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

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



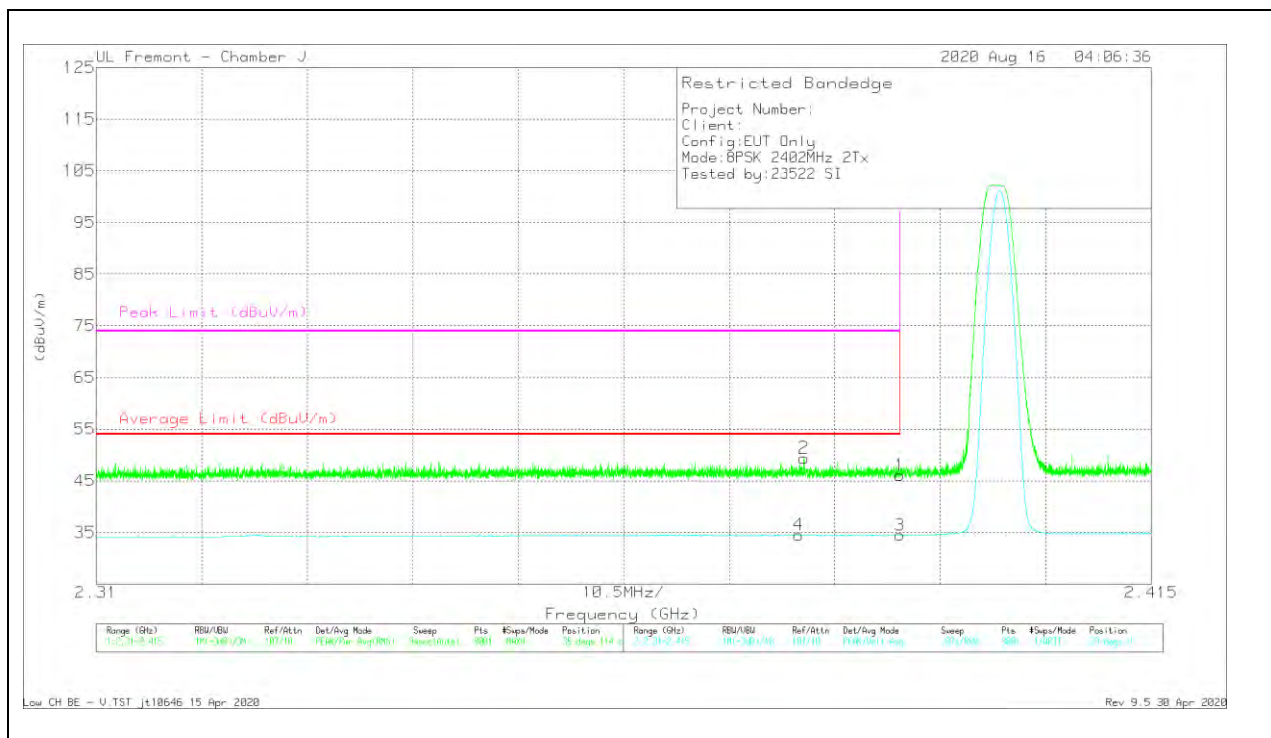
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T963 (dB/m) | Amp/CbI/Filt/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 43.71                | Pk   | 29             | -25.5                 | 47.21                      | -                      | -           | 74                  | -26.79         | 54             | 141         | H        |
| 2      | * 2.38187       | 45.63                | Pk   | 29             | -25.5                 | 49.13                      | -                      | -           | 74                  | -24.87         | 54             | 141         | H        |
| 3      | * 2.38999       | 31.22                | VA1T | 29             | -25.5                 | 34.72                      | 54                     | -19.28      | -                   | -              | 54             | 141         | H        |
| 4      | * 2.32618       | 31.95                | VA1T | 28.8           | -25.6                 | 35.15                      | 54                     | -18.85      | -                   | -              | 54             | 141         | 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

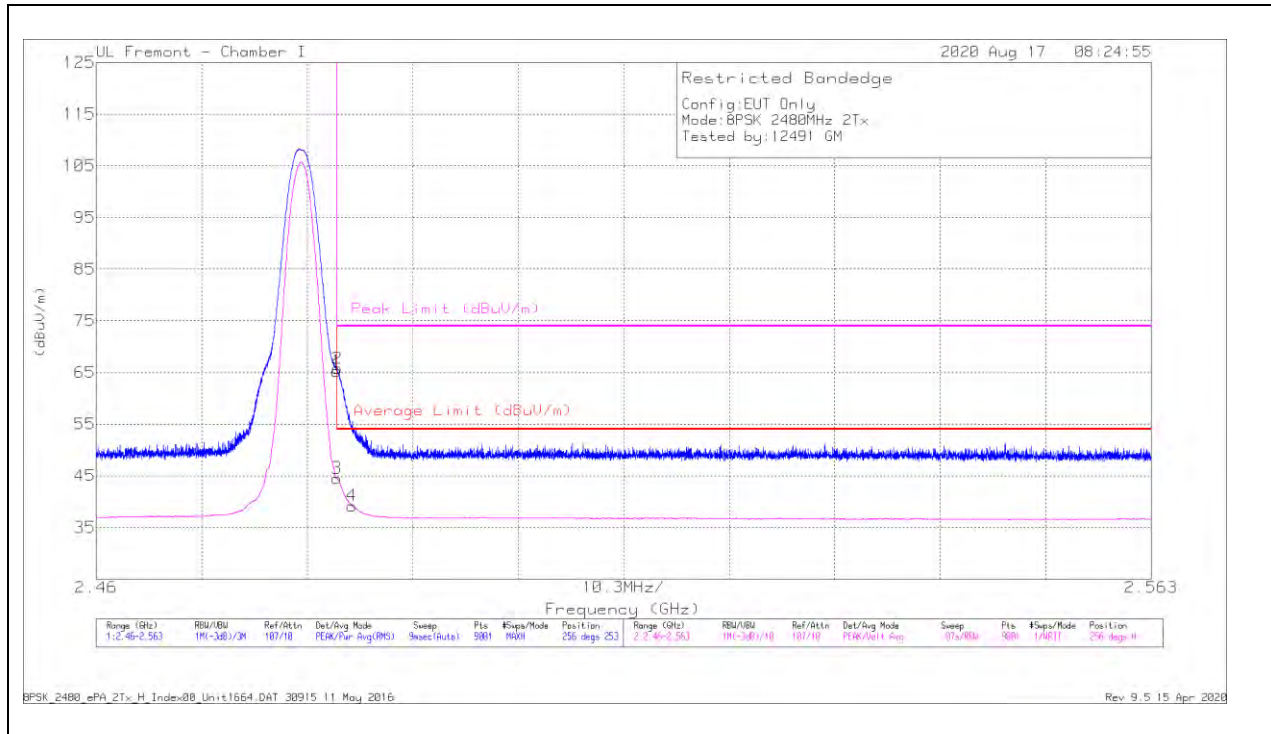


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T963 (dB/m) | Amp/Cbl/Fitr/Par d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 42.56                | Pk   | 29             | -25.5                   | 46.06                      | -                      | -           | 74                  | -27.94         | 39             | 114         | V        |
| 2      | * 2.38043       | 45.87                | Pk   | 29             | -25.5                   | 49.37                      | -                      | -           | 74                  | -24.63         | 39             | 114         | V        |
| 3      | * 2.38999       | 30.96                | VA1T | 29             | -25.5                   | 34.46                      | 54                     | -19.54      | -                   | -              | 39             | 114         | V        |
| 4      | * 2.37991       | 31.02                | VA1T | 29             | -25.5                   | 34.52                      | 54                     | -19.48      | -                   | -              | 39             | 114         | 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**

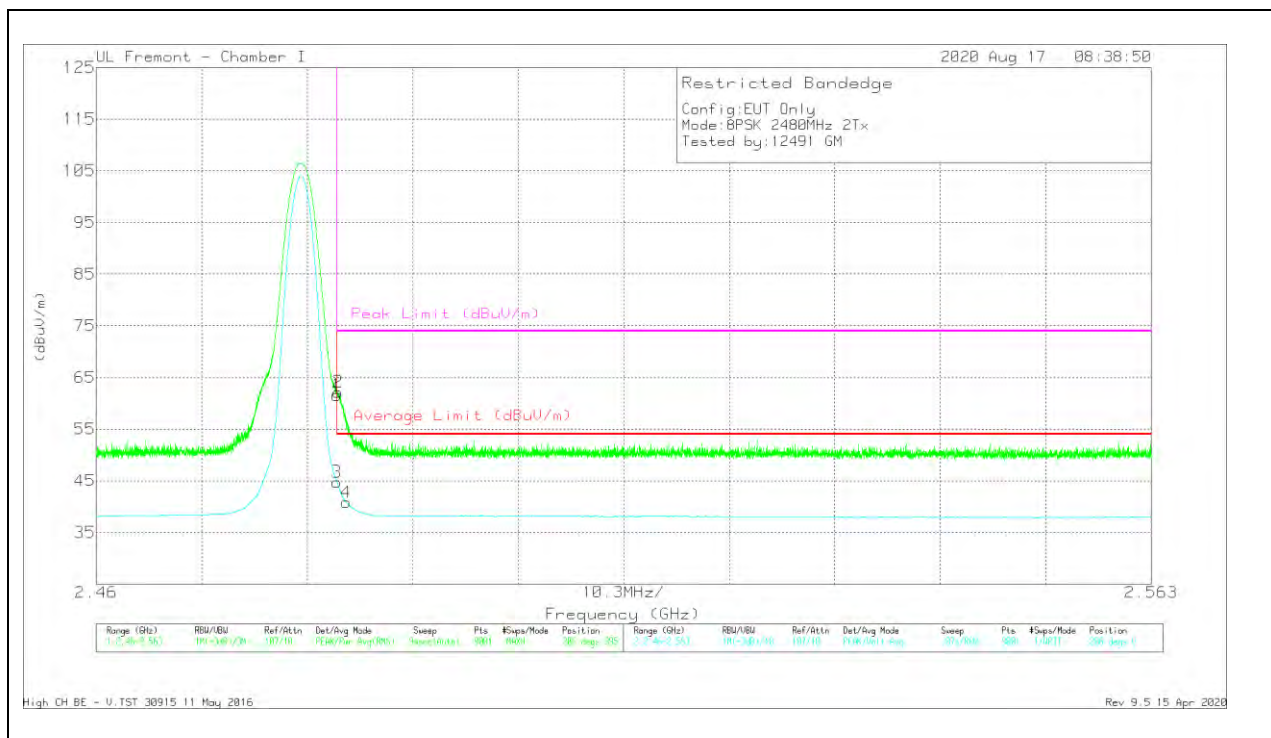
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/CbI/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 50.56                | Pk   | 32.4           | -17.7                  | 65.26                      | -                      | -           | 74                  | -8.74          | 256            | 253         | H        |
| 2      | * 2.48353       | 51.09                | Pk   | 32.4           | -17.7                  | 65.79                      | -                      | -           | 74                  | -8.21          | 256            | 253         | H        |
| 3      | * 2.48351       | 29.81                | VA1T | 32.4           | -17.7                  | 44.51                      | 54                     | -9.49       | -                   | -              | 256            | 253         | H        |
| 4      | * 2.48497       | 24.37                | VA1T | 32.5           | -17.7                  | 39.17                      | 54                     | -14.83      | -                   | -              | 256            | 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



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 46.9                 | Pk   | 32.4           | -17.7                  | 61.6                       | -                      | -           | 74                  | -12.4          | 206            | 395         | V        |
| 2      | * 2.48361       | 47.45                | Pk   | 32.4           | -17.7                  | 62.15                      | -                      | -           | 74                  | -11.85         | 206            | 395         | V        |
| 3      | * 2.48351       | 30.03                | VA1T | 32.4           | -17.7                  | 44.73                      | 54                     | -9.27       | -                   | -              | 206            | 395         | V        |
| 4      | * 2.48442       | 26.12                | VA1T | 32.4           | -17.7                  | 40.82                      | 54                     | -13.18      | -                   | -              | 206            | 395         | V        |

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

Pk - Peak detector

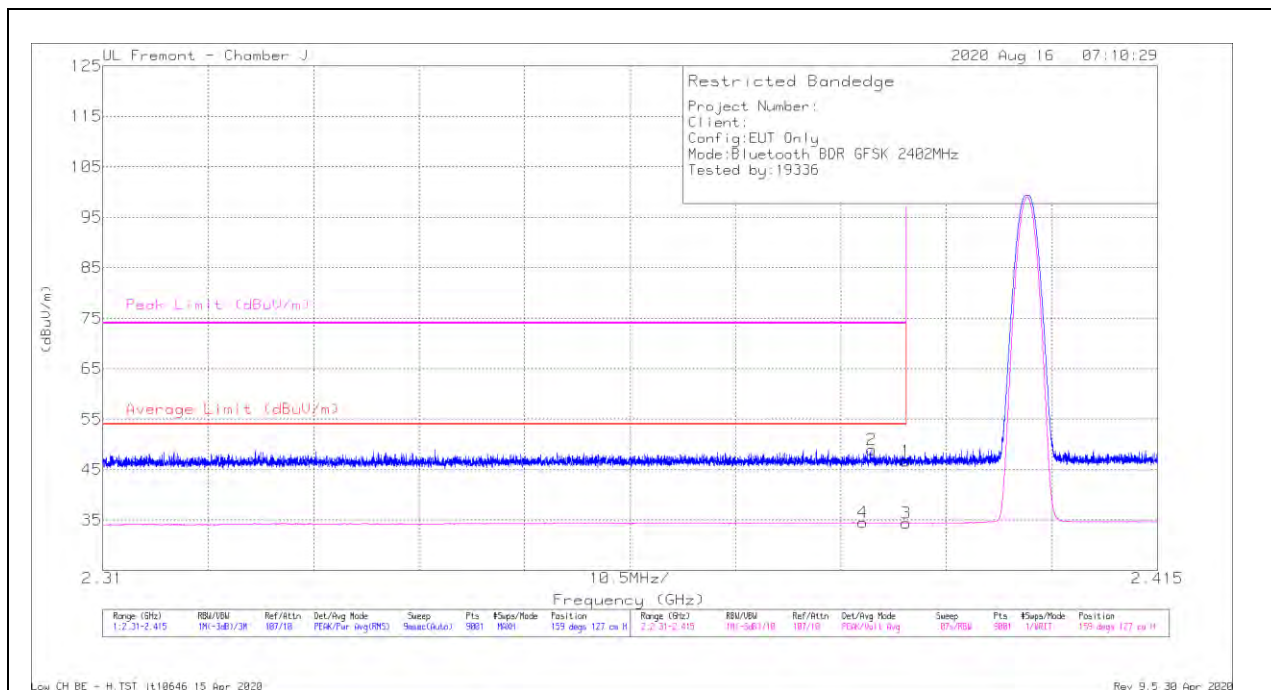
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## 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 T963 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 43.24                | Pk   | 29             | -25.5                  | 46.74                      | -                      | -           | 74                  | -27.26         | 159            | 127         | H        |
| 2      | * 2.38654       | 45.43                | Pk   | 29             | -25.5                  | 48.93                      | -                      | -           | 74                  | -25.07         | 159            | 127         | H        |
| 3      | * 2.38999       | 30.91                | VA1T | 29             | -25.5                  | 34.41                      | 54                     | -19.59      | -                   | -              | 159            | 127         | H        |
| 4      | * 2.38568       | 30.97                | VA1T | 29             | -25.5                  | 34.47                      | 54                     | -19.53      | -                   | -              | 159            | 127         | H        |

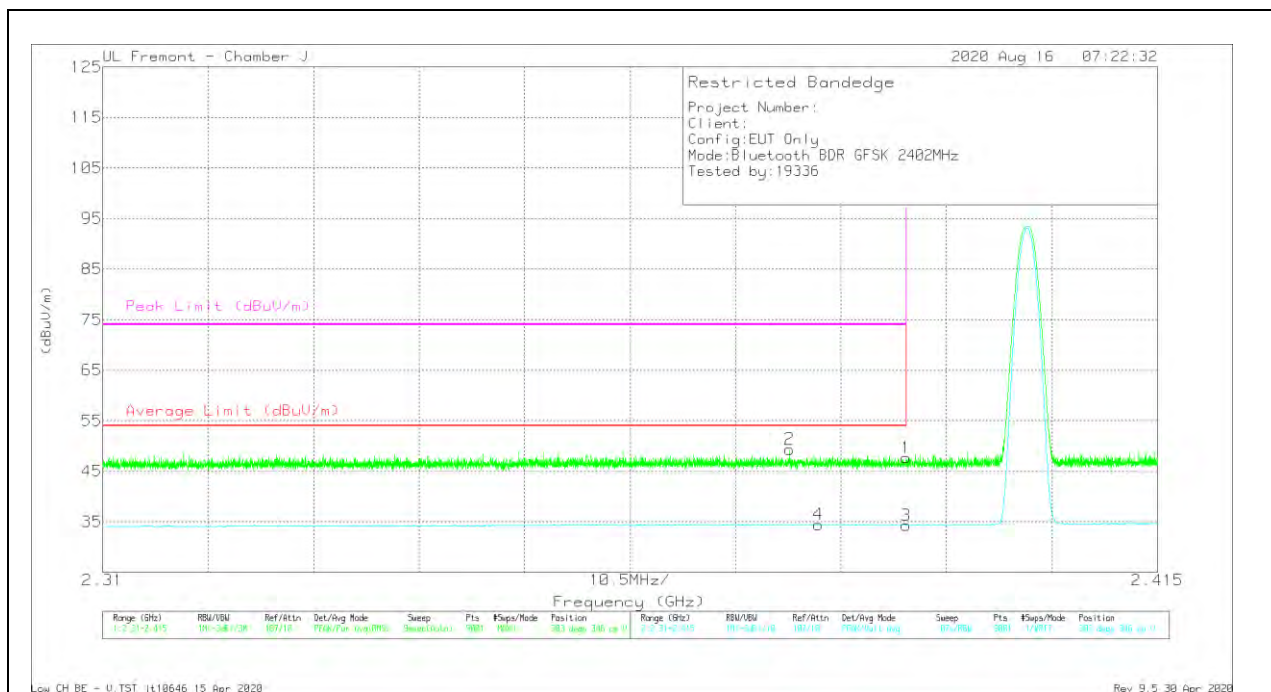
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T963 (dB/m) | Amp/Cbl/Fitr/Par d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degr) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 44.22                | Pk   | 29             | -25.5                   | 47.72                      | -                      | -           | 74                  | -26.28         | 303            | 346         | V        |
| 2      | * 2.37838       | 45.86                | Pk   | 29             | -25.5                   | 49.36                      | -                      | -           | 74                  | -24.64         | 303            | 346         | V        |
| 3      | * 2.38999       | 30.83                | VA1T | 29             | -25.5                   | 34.33                      | 54                     | -19.67      | -                   | -              | 303            | 346         | V        |
| 4      | * 2.38125       | 30.96                | VA1T | 29             | -25.5                   | 34.46                      | 54                     | -19.54      | -                   | -              | 303            | 346         | V        |

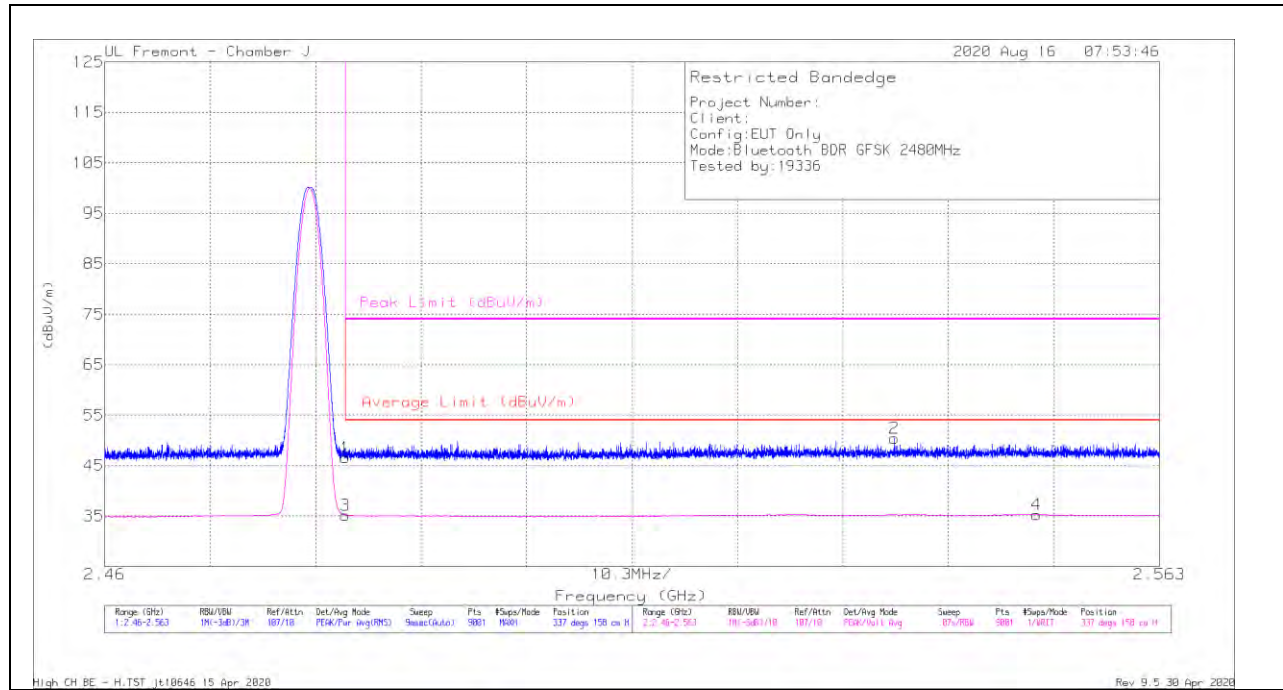
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

# **BANDEDGE (HIGH CHANNEL)**

## **HORIZONTAL RESULT**



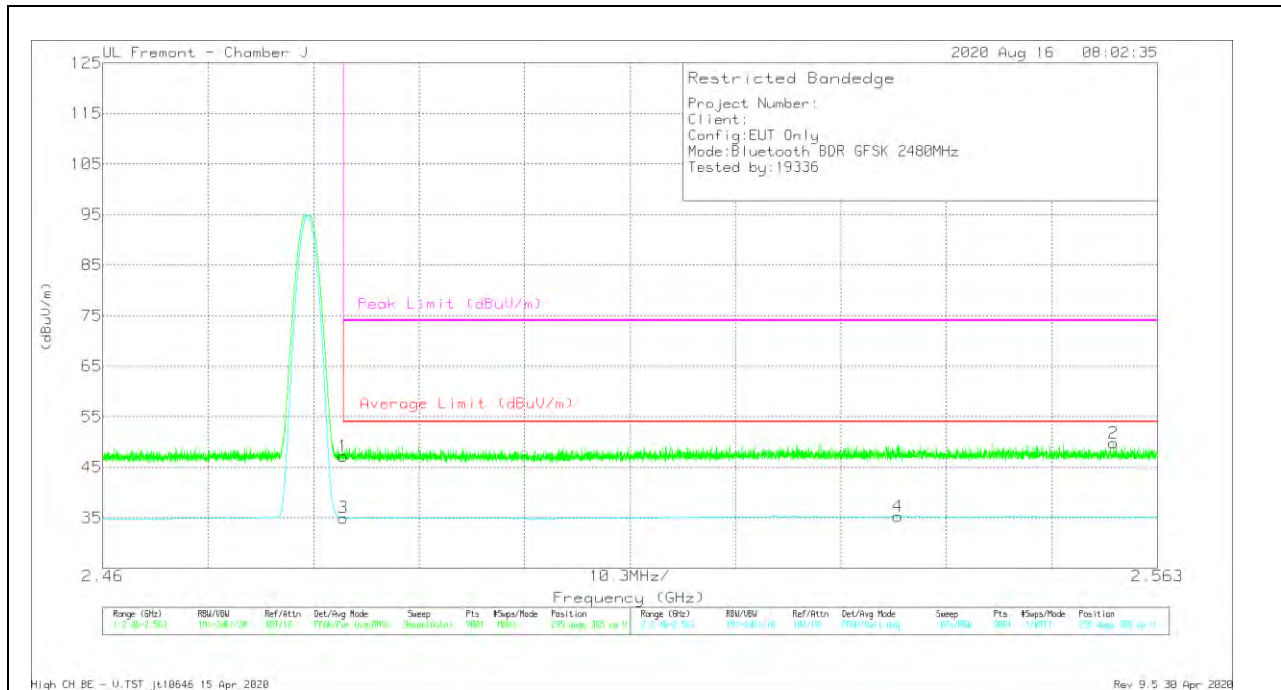
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T963 (dB/m) | Amp/CbI/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 42.59                | Pk   | 29.5           | -25.5                  | 46.59                      | -                      | -           | 74                  | -27.41         | 337            | 158         | H        |
| 2      | 2.53713         | 46.02                | Pk   | 29.8           | -25.4                  | 50.42                      | -                      | -           | 74                  | -23.58         | 337            | 158         | H        |
| 3      | * 2.48351       | 31.16                | VA1T | 29.5           | -25.5                  | 35.16                      | 54                     | -18.84      | -                   | -              | 337            | 158         | H        |
| 4      | 2.55098         | 30.79                | VA1T | 29.9           | -25.4                  | 35.29                      | 54                     | -18.71      | -                   | -              | 337            | 158         | 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 T963 (dB/m) | Amp/Cbl/Filt/Par d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.14                | Pk   | 29.5           | -25.5                   | 47.14                      | -                      | -           | 74                  | -26.86         | 295            | 365         | V        |
| 2      | 2.5587          | 45.35                | Pk   | 29.8           | -25.4                   | 49.75                      | -                      | -           | 74                  | -24.25         | 295            | 365         | V        |
| 3      | * 2.48351       | 30.96                | VA1T | 29.5           | -25.5                   | 34.96                      | 54                     | -19.04      | -                   | -              | 295            | 365         | V        |
| 4      | 2.53765         | 30.86                | VA1T | 29.8           | -25.4                   | 35.26                      | 54                     | -18.74      | -                   | -              | 295            | 365         | V        |

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

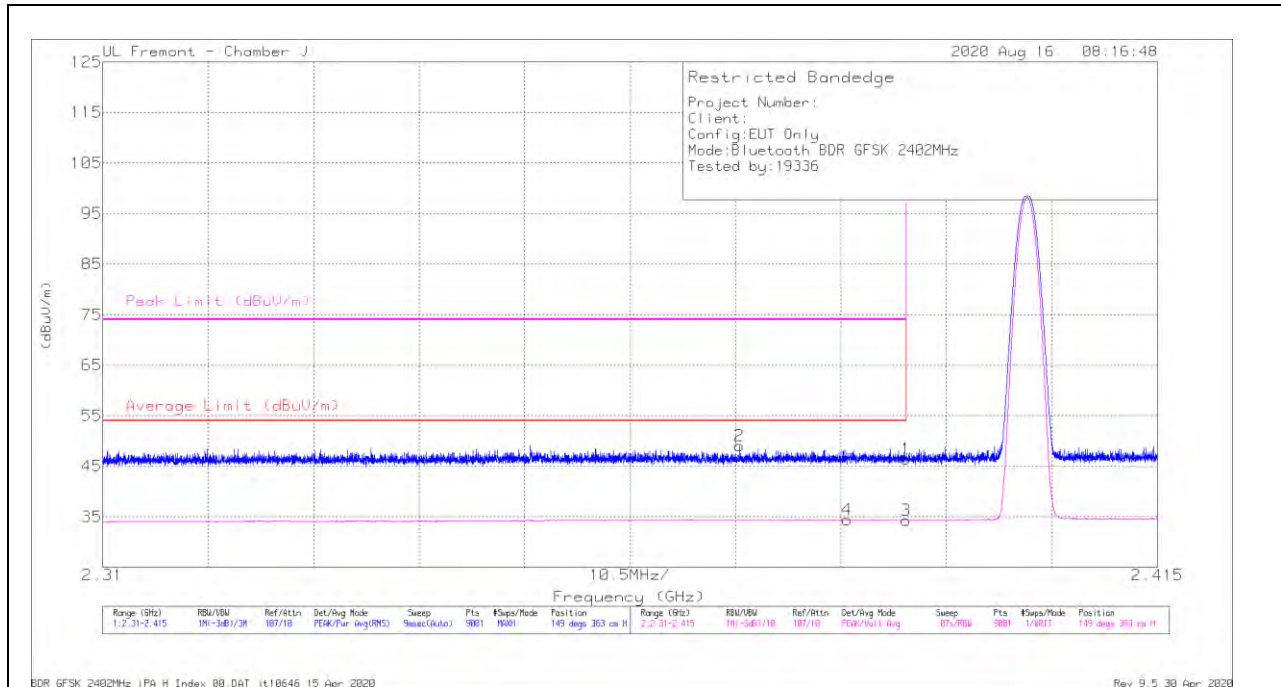
Pk - Peak detector

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

**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



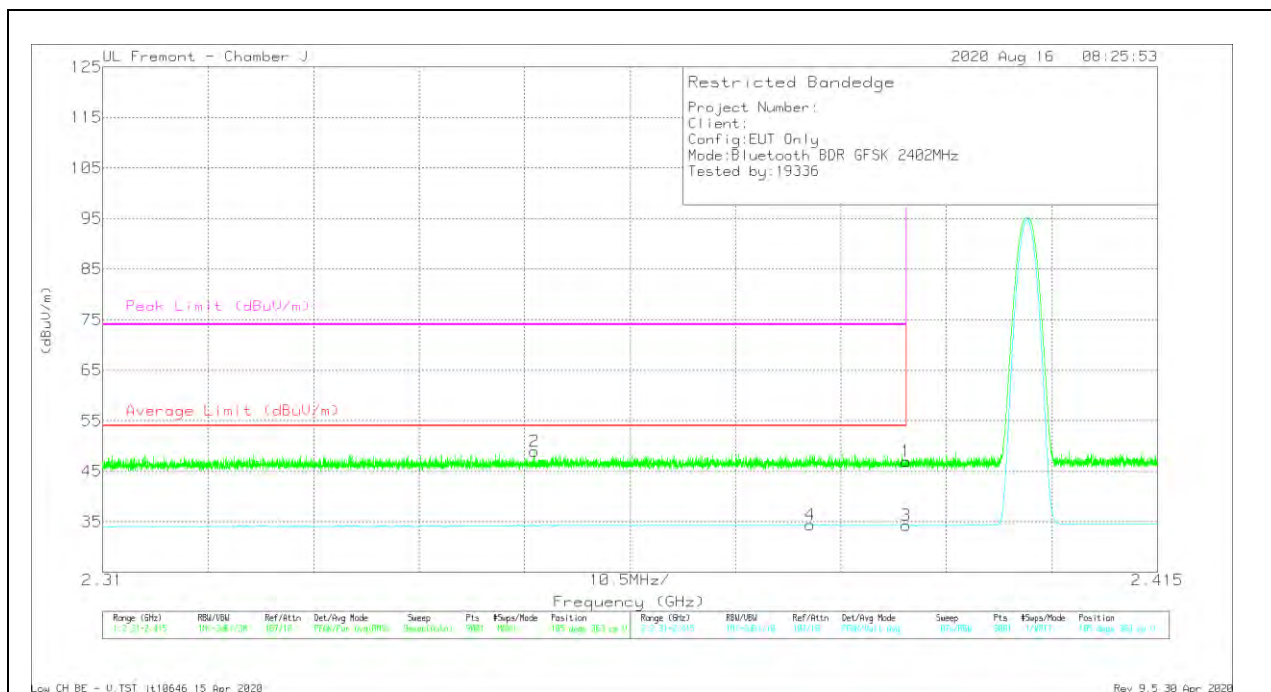
| Marker | Frequency (GHz) | Motor Reading (dBuV) | Det  | AFT963 (dB/m) | Amp/Cbl/FitriPa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Dega) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 42.92                | Pk   | 29            | -25.5                  | 46.42                      | -                      | -           | 74                  | -27.58         | 149            | 363         | H        |
| 2      | * 2.3734        | 45.6                 | Pk   | 29            | -25.5                  | 49.1                       | -                      | -           | 74                  | -24.9          | 149            | 363         | H        |
| 3      | * 2.38999       | 30.78                | VA1T | 29            | -25.5                  | 34.28                      | 54                     | -19.72      | -                   | -              | 149            | 363         | H        |
| 4      | * 2.38411       | 30.86                | VA1T | 29            | -25.5                  | 34.36                      | 54                     | -19.64      | -                   | -              | 149            | 363         | 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 T963 (dB/m) | Amp/Cbl/Fitr/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      | * 2.38999       | 43.4                 | Pk   | 29             | -25.5                 | 46.9                       | -                      | -           | 74                  | -27.1          | 105            | 363         | V        |
| 2      | * 2.35296       | 45.52                | Pk   | 28.9           | -25.5                 | 48.92                      | -                      | -           | 74                  | -25.08         | 105            | 363         | V        |
| 3      | * 2.38999       | 30.73                | VA1T | 29             | -25.5                 | 34.23                      | 54                     | -19.77      | -                   | -              | 105            | 363         | V        |
| 4      | * 2.38045       | 30.88                | VA1T | 29             | -25.5                 | 34.38                      | 54                     | -19.62      | -                   | -              | 105            | 363         | V        |

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

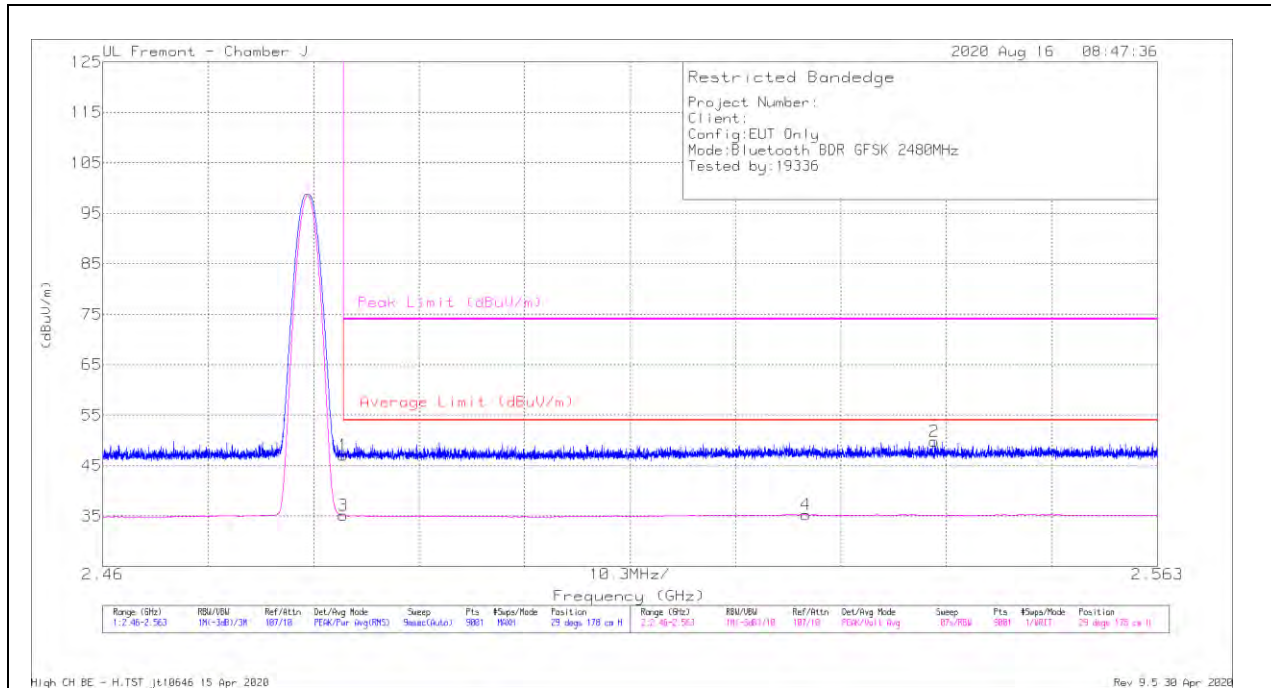
Pk - Peak detector

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



# **BANDEDGE (HIGH CHANNEL)**

## **HORIZONTAL RESULT**



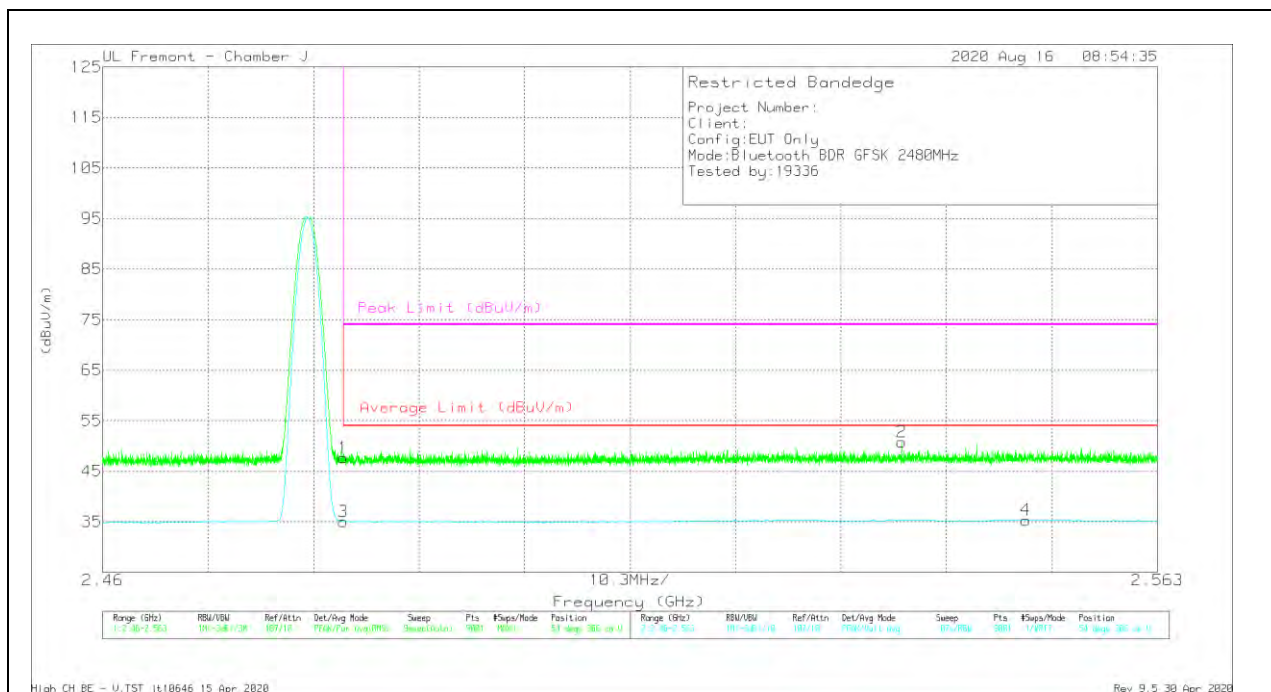
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T963 (dB/m) | Amp/Cbll/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.02                | Pk   | 29.5           | -25.5                    | 47.02                      | -                      | -           | 74                  | -26.98         | 29             | 178         | H        |
| 2      | 2.54123         | 45.42                | Pk   | 29.8           | -25.4                    | 49.82                      | -                      | -           | 74                  | -24.18         | 29             | 178         | H        |
| 3      | * 2.48351       | 31.09                | VA1T | 29.5           | -25.5                    | 35.09                      | 54                     | -18.91      | -                   | -              | 29             | 178         | H        |
| 4      | 2.52866         | 30.88                | VA1T | 29.8           | -25.4                    | 35.28                      | 54                     | -18.72      | -                   | -              | 29             | 178         | 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 T963 (dB/m) | Amp/Cbl/Fitr/Par d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degr) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.69                | Pk   | 29.5           | -25.5                   | 47.69                      | -                      | -           | 74                  | -26.31         | 54             | 366         | V        |
| 2      | 2.53801         | 46.26                | Pk   | 29.9           | -25.4                   | 50.76                      | -                      | -           | 74                  | -23.24         | 54             | 366         | V        |
| 3      | * 2.48351       | 31.02                | VA1T | 29.5           | -25.5                   | 35.02                      | 54                     | -18.98      | -                   | -              | 54             | 366         | V        |
| 4      | 2.55016         | 30.83                | VA1T | 29.9           | -25.4                   | 35.33                      | 54                     | -18.67      | -                   | -              | 54             | 366         | V        |

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

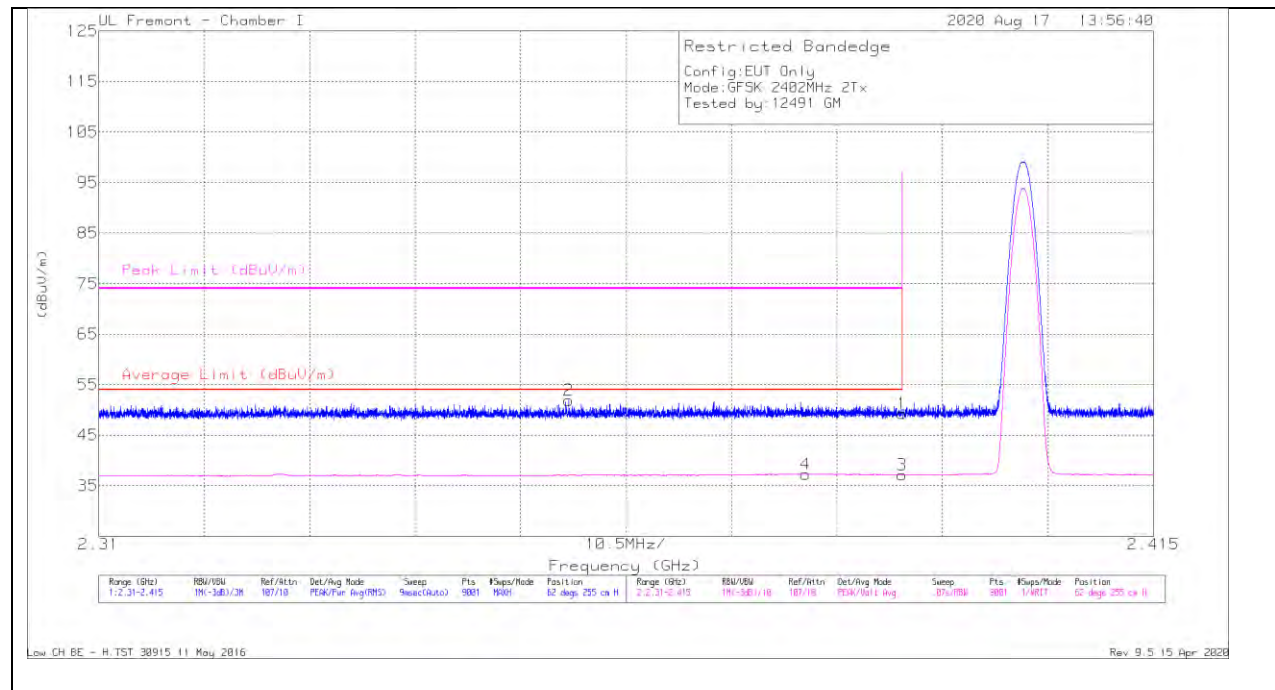
Pk - Peak detector

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



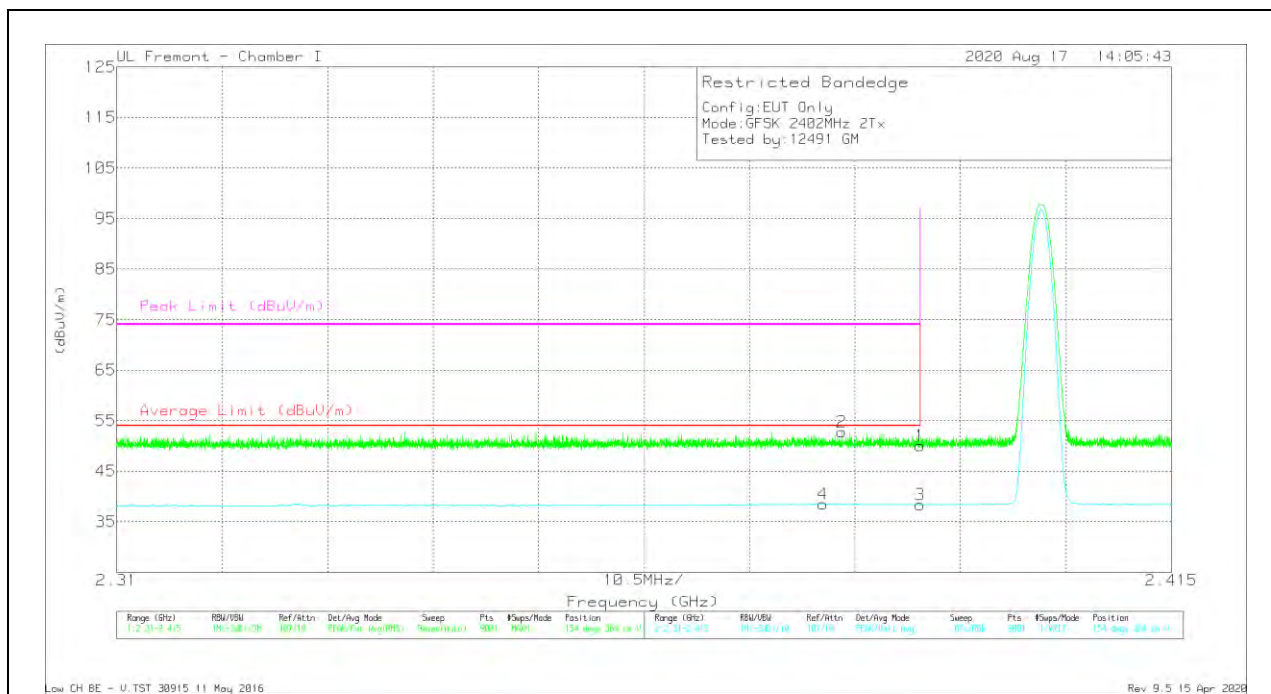
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/CbI/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.6                 | Pk   | 32             | -17.3                 | 49.3                       | -                      | -           | 74                  | -24.7          | 62             | 255         | H        |
| 2      | * 2.35677       | 37.43                | Pk   | 31.8           | -17.3                 | 51.93                      | -                      | -           | 74                  | -22.07         | 62             | 255         | H        |
| 3      | * 2.38999       | 22.44                | VA1T | 32             | -17.3                 | 37.14                      | 54                     | -16.86      | -                   | -              | 62             | 255         | H        |
| 4      | * 2.38034       | 22.59                | VA1T | 32             | -17.3                 | 37.29                      | 54                     | -16.71      | -                   | -              | 62             | 255         | 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 T346 (dB/m) | Amp/Cbl/FitriPa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Dega) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.34                | Pk   | 32             | -17.3                  | 50.04                      | -                      | -           | 74                  | -23.96         | 154            | 364         | V        |
| 2      | * 2.38218       | 38.11                | Pk   | 32             | -17.3                  | 52.81                      | -                      | -           | 74                  | -21.19         | 154            | 364         | V        |
| 3      | * 2.38999       | 23.63                | VA1T | 32             | -17.3                  | 38.33                      | 54                     | -15.67      | -                   | -              | 154            | 364         | V        |
| 4      | * 2.38029       | 23.79                | VA1T | 32             | -17.3                  | 38.49                      | 54                     | -15.51      | -                   | -              | 154            | 364         | V        |

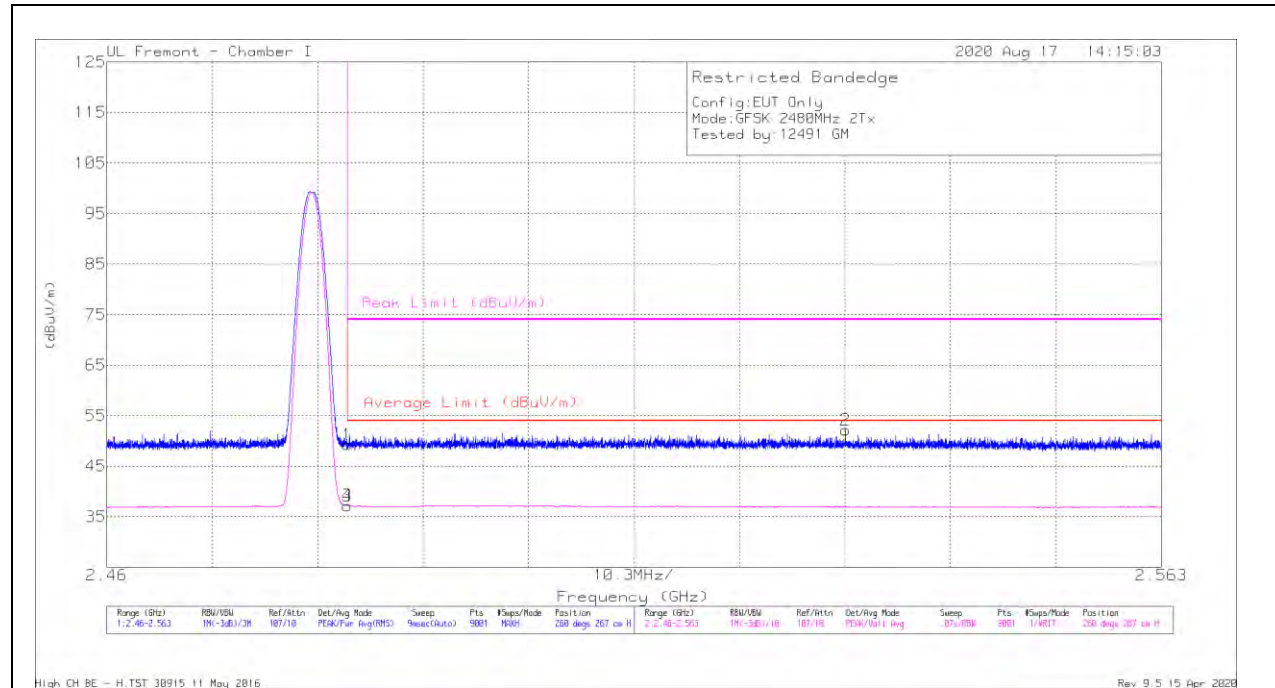
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T346 (dB/m) | Amp/Cbll/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 34.61                | Pk   | 32.4           | -17.7                    | 49.31                      | -                      | -           | 74                  | -24.69         | 260            | 267         | H        |
| 2      | 2.53215         | 37.5                 | Pk   | 32.4           | -17.8                    | 52.1                       | -                      | -           | 74                  | -21.9          | 260            | 267         | H        |
| 3      | * 2.48351       | 22.49                | VA1T | 32.4           | -17.7                    | 37.19                      | 54                     | -16.81      | -                   | -              | 260            | 267         | H        |
| 4      | * 2.48352       | 22.49                | VA1T | 32.4           | -17.7                    | 37.19                      | 54                     | -16.81      | -                   | -              | 260            | 267         | H        |

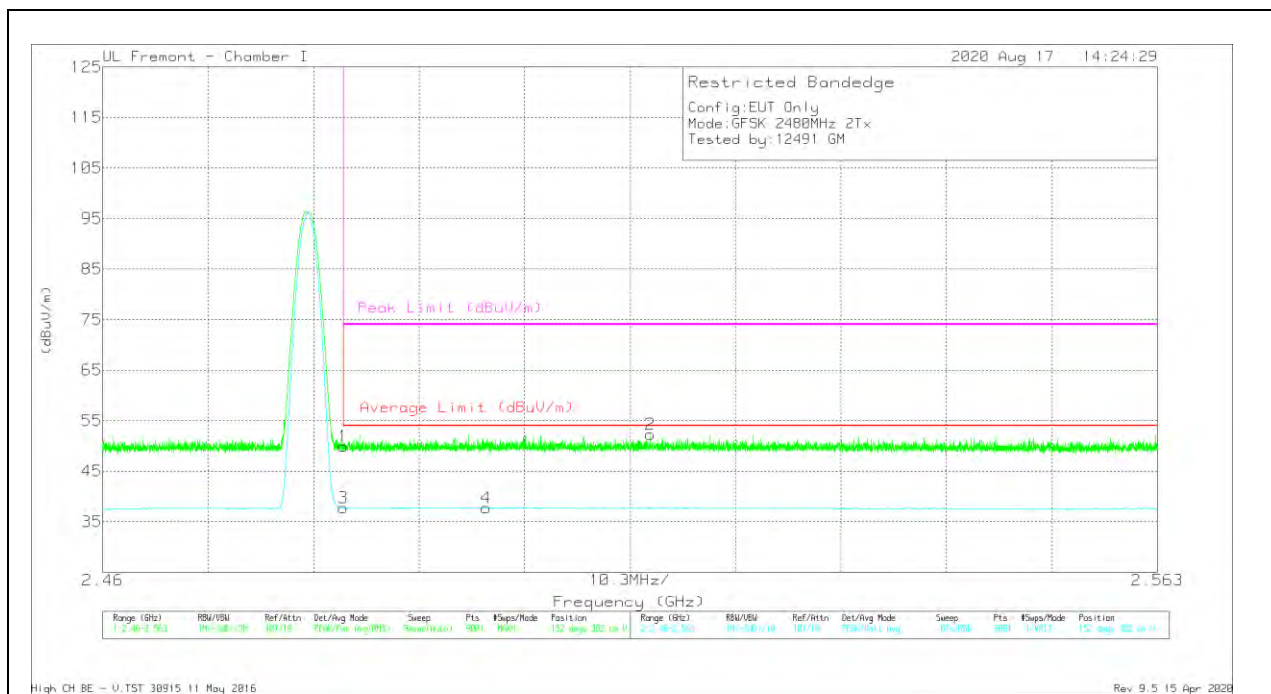
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T346 (dB/m) | Amp/Cbl/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degr) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 35.2                 | Pk   | 32.4           | -17.7                   | 49.9                       | -                      | -           | 74                  | -24.1          | 152            | 382         | V        |
| 2      | 2.51349         | 37.55                | Pk   | 32.5           | -17.8                   | 52.25                      | -                      | -           | 74                  | -21.75         | 152            | 382         | V        |
| 3      | * 2.48351       | 23                   | VA1T | 32.4           | -17.7                   | 37.7                       | 54                     | -16.3       | -                   | -              | 152            | 382         | V        |
| 4      | * 2.49744       | 23.09                | VA1T | 32.5           | -17.8                   | 37.79                      | 54                     | -16.21      | -                   | -              | 152            | 382         | V        |

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

Pk - Peak detector

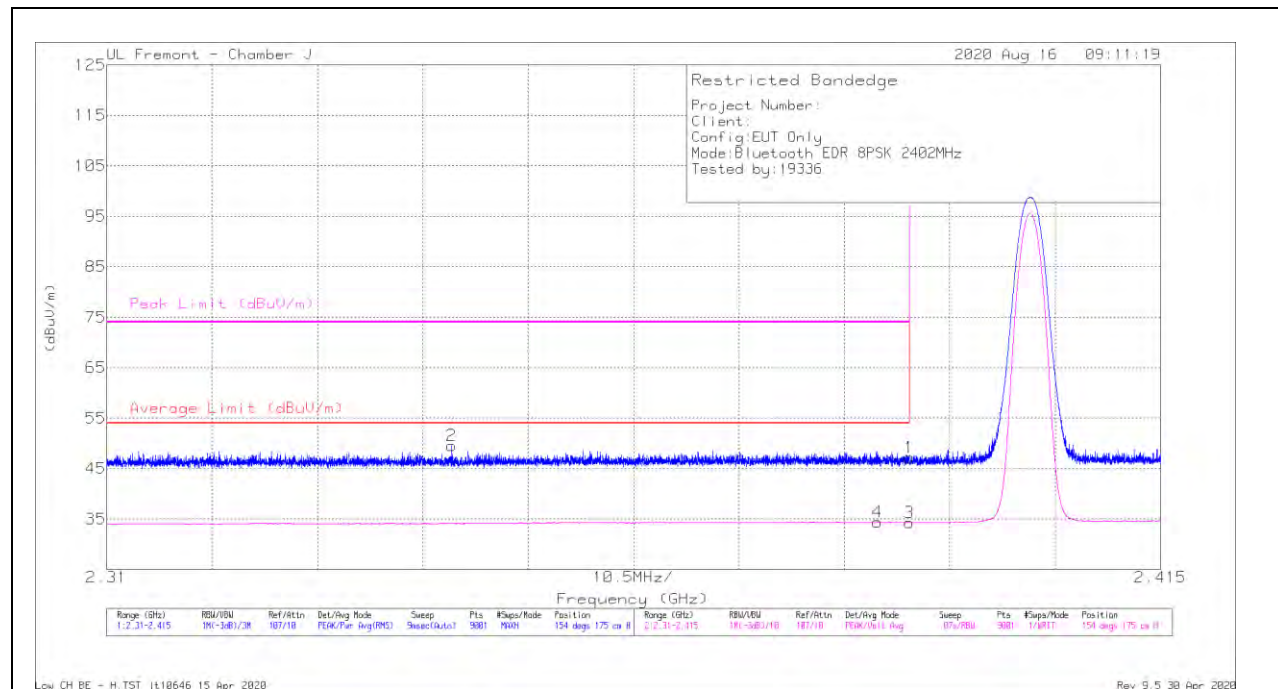
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## 10.1.7. LOW POWER ENHANCED DATA RATE 8PSK MODULATION

### ANT 4

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



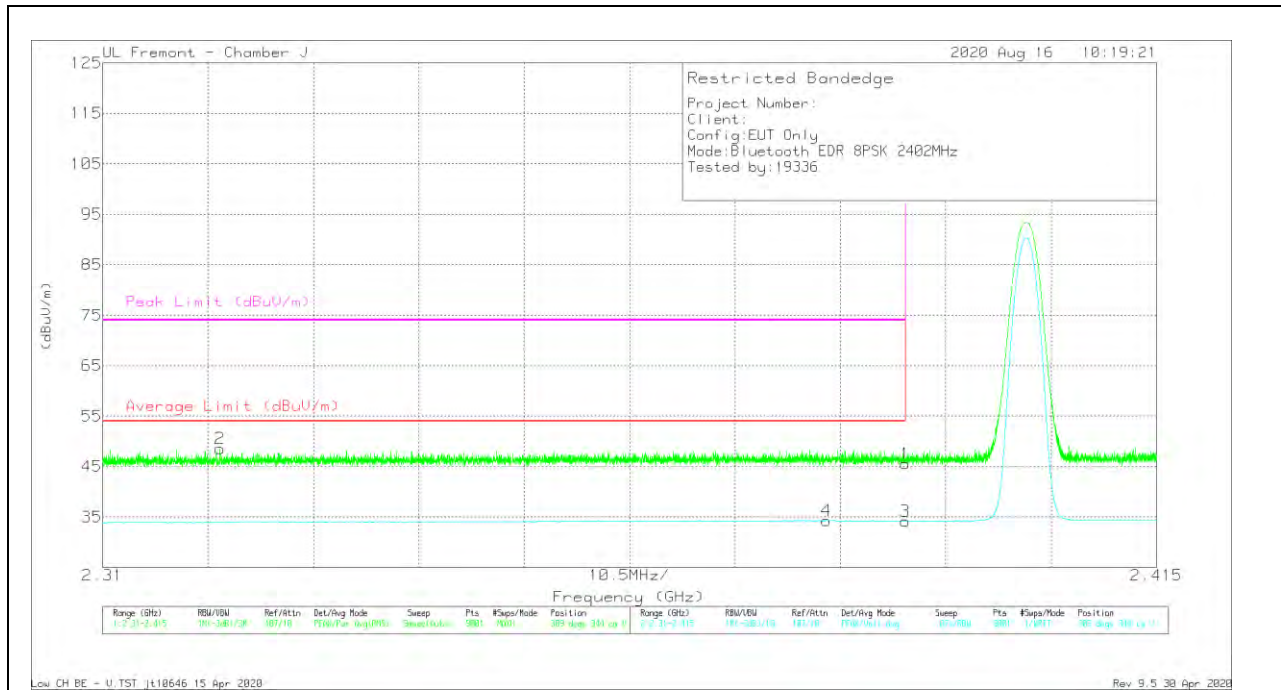
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T963 (dB/m) | Amp/Cbll/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 43.63                | Pk   | 29             | -25.5                   | 47.13                      | -                      | -           | 74                  | -26.87         | 154            | 175         | H        |
| 2      | * 2.34439       | 46.22                | Pk   | 28.9           | -25.6                   | 49.52                      | -                      | -           | 74                  | -24.48         | 154            | 175         | H        |
| 3      | * 2.38999       | 30.79                | VA1T | 29             | -25.5                   | 34.29                      | 54                     | -19.71      | -                   | -              | 154            | 175         | H        |
| 4      | * 2.3866        | 30.86                | VA1T | 29             | -25.5                   | 34.36                      | 54                     | -19.64      | -                   | -              | 154            | 175         | 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 T963 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 42.05                | Pk   | 29             | -25.5                  | 45.55                      | -                      | -           | 74                  | -28.45         | 309            | 344         | V        |
| 2      | * 2.32169       | 45.32                | Pk   | 28.8           | -25.6                  | 48.52                      | -                      | -           | 74                  | -25.48         | 309            | 344         | V        |
| 3      | * 2.38999       | 30.63                | VA1T | 29             | -25.5                  | 34.13                      | 54                     | -19.87      | -                   | -              | 309            | 344         | V        |
| 4      | * 2.3821        | 30.77                | VA1T | 29             | -25.5                  | 34.27                      | 54                     | -19.73      | -                   | -              | 309            | 344         | V        |

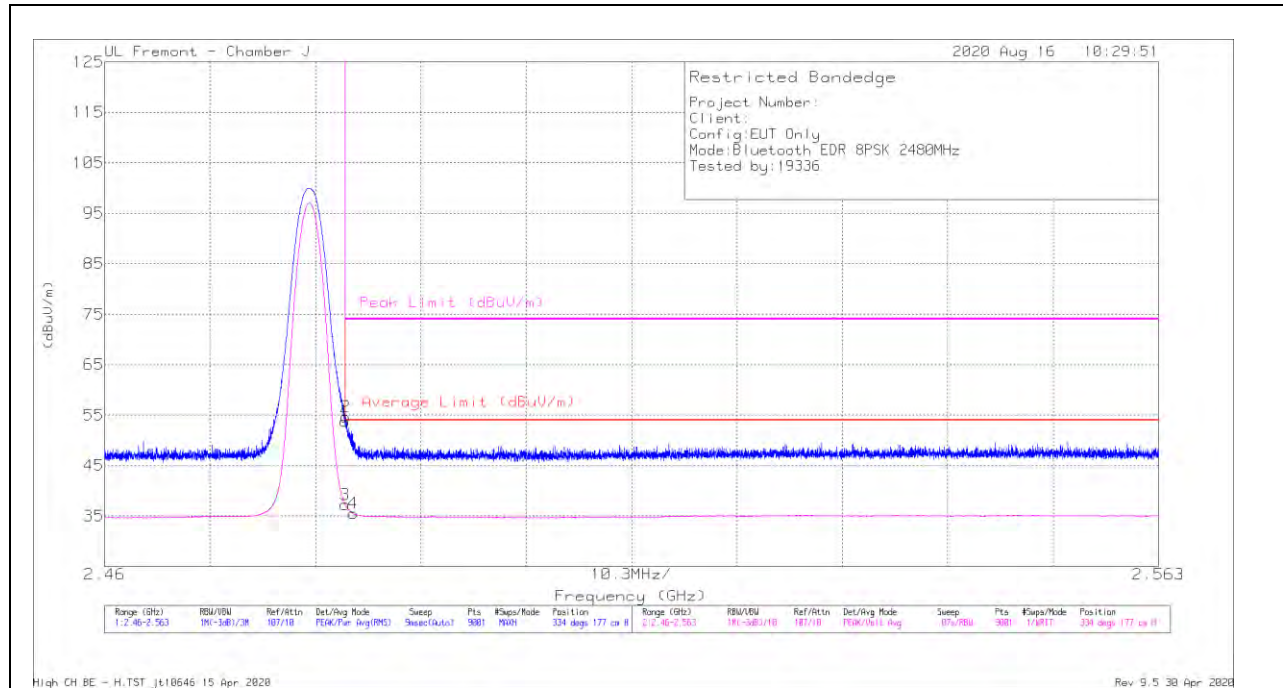
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

# BANDEDGE (HIGH CHANNEL)

## HORIZONTAL RESULT



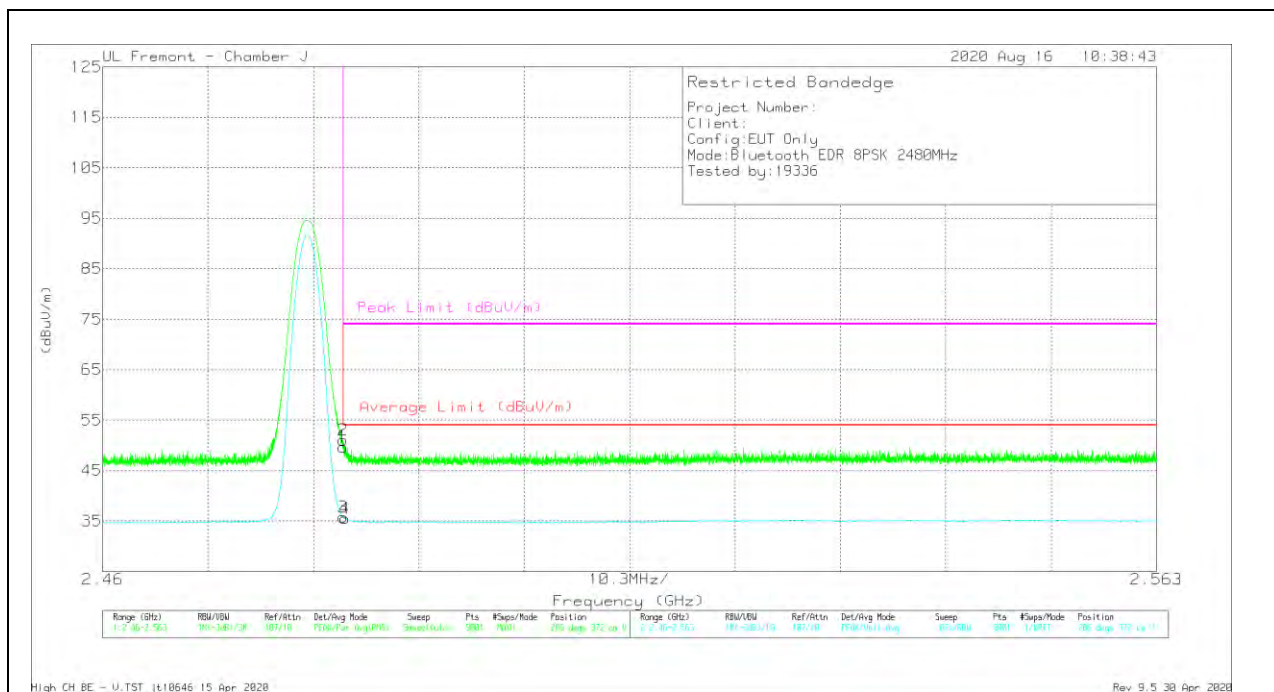
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T963 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 49.78                | Pk   | 29.5           | -25.5                  | 53.78                      | -                      | -           | 74                  | -20.22         | 334            | 177         | H        |
| 2      | * 2.48353       | 50.69                | Pk   | 29.5           | -25.5                  | 54.69                      | -                      | -           | 74                  | -19.31         | 334            | 177         | H        |
| 3      | * 2.48351       | 33.2                 | VA1T | 29.5           | -25.5                  | 37.2                       | 54                     | -16.8       | -                   | -              | 334            | 177         | H        |
| 4      | * 2.48426       | 31.62                | VA1T | 29.5           | -25.5                  | 35.52                      | 54                     | -18.48      | -                   | -              | 334            | 177         | 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 T963 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degr) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 45.65                | Pk   | 29.5           | -25.5                  | 49.65                      | -                      | -           | 74                  | -24.35         | 286            | 372         | V        |
| 2      | * 2.48352       | 47.06                | Pk   | 29.5           | -25.5                  | 51.06                      | -                      | -           | 74                  | -22.94         | 286            | 372         | V        |
| 3      | * 2.48351       | 31.78                | VA1T | 29.5           | -25.5                  | 35.78                      | 54                     | -18.22      | -                   | -              | 286            | 372         | V        |
| 4      | * 2.48367       | 31.53                | VA1T | 29.5           | -25.5                  | 35.53                      | 54                     | -18.47      | -                   | -              | 286            | 372         | V        |

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

Pk - Peak detector

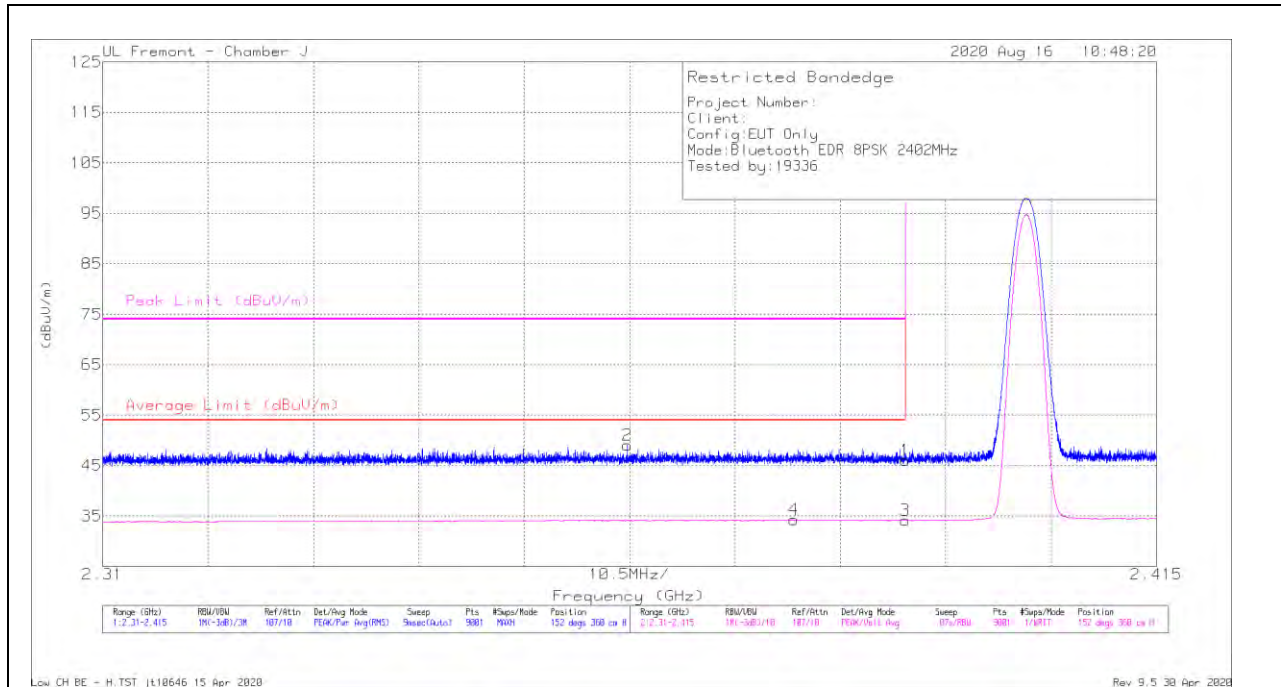
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration



**ANT 3**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**

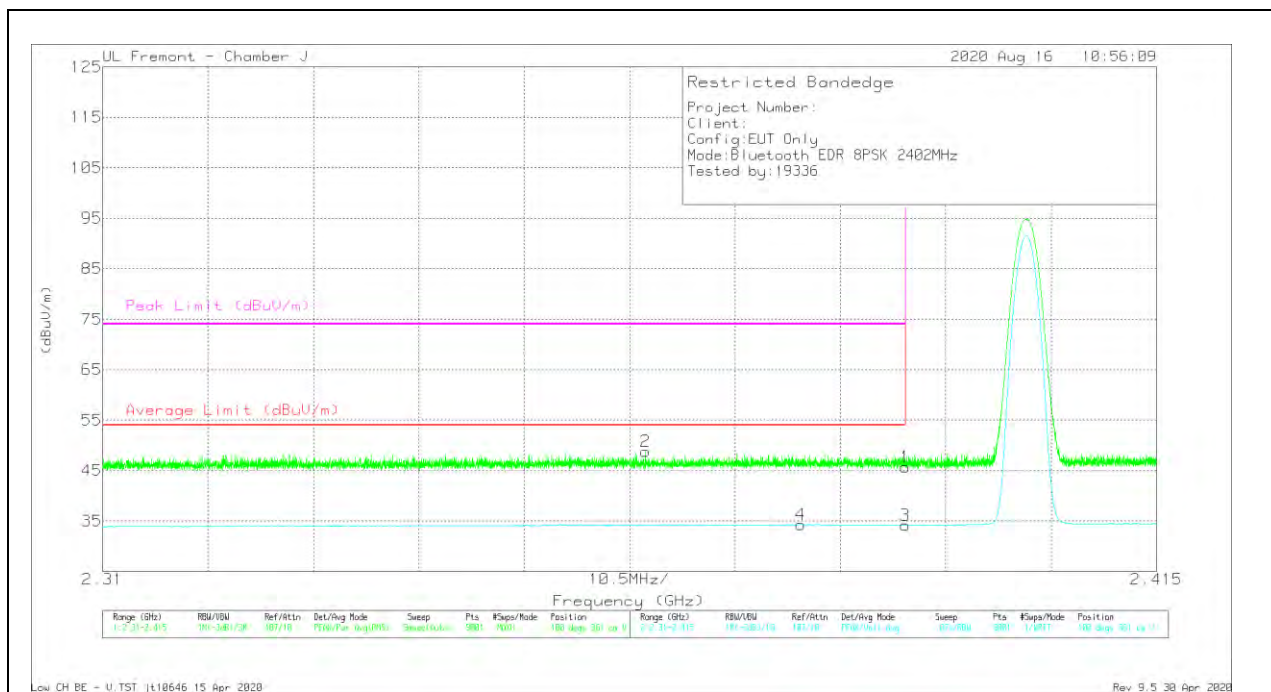


\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T963 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 42.15                | Pk   | 29             | -25.5                  | 45.65                      | -                      | -           | 74                  | -28.35         | 100            | 361         | V        |
| 2      | * 2.36409       | 45.27                | Pk   | 29             | -25.5                  | 48.77                      | -                      | -           | 74                  | -25.23         | 100            | 361         | V        |
| 3      | * 2.38999       | 30.69                | VA1T | 29             | -25.5                  | 34.19                      | 54                     | -19.81      | -                   | -              | 100            | 361         | V        |
| 4      | * 2.37958       | 30.78                | VA1T | 29             | -25.5                  | 34.28                      | 54                     | -19.72      | -                   | -              | 100            | 361         | V        |

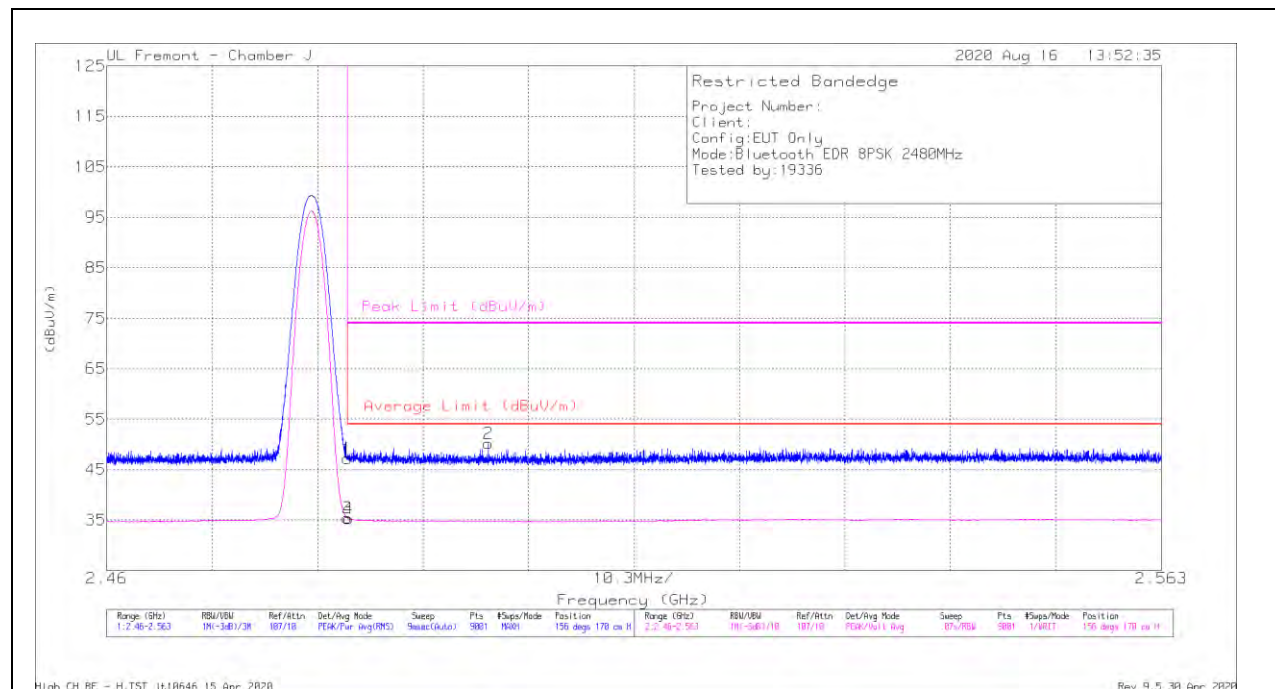
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

# **BANDEDGE (HIGH CHANNEL)**

## **HORIZONTAL RESULT**



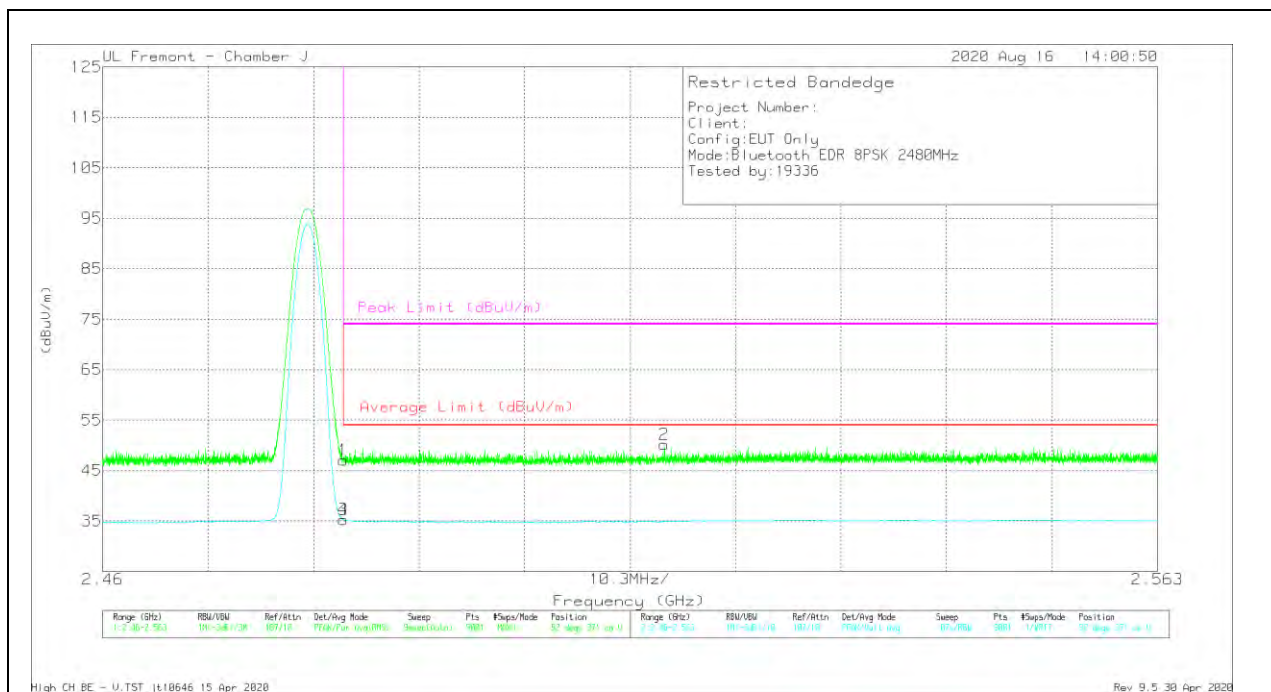
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T963 (dB/m) | Amp/CbI/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.24                | Pk   | 29.5           | -25.5                  | 47.24                      | -                      | -           | 74                  | -26.76         | 156            | 170         | H        |
| 2      | * 2.49727       | 46.06                | Pk   | 29.6           | -25.5                  | 50.16                      | -                      | -           | 74                  | -23.84         | 156            | 170         | H        |
| 3      | * 2.48351       | 31.4                 | VA1T | 29.5           | -25.5                  | 35.4                       | 54                     | -18.6       | -                   | -              | 156            | 170         | H        |
| 4      | * 2.48364       | 31.29                | VA1T | 29.5           | -25.5                  | 35.29                      | 54                     | -18.71      | -                   | -              | 156            | 170         | 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 T963 (dB/m) | Amp/Cbl/Fitr/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      | * 2.48351       | 43.11                | Pk   | 29.5           | -25.5                 | 47.11                      | -                      | -           | 74                  | -26.89         | 92             | 371         | V        |
| 2      | 2.51485         | 45.92                | Pk   | 29.7           | -25.5                 | 50.12                      | -                      | -           | 74                  | -23.88         | 92             | 371         | V        |
| 3      | * 2.48351       | 31.22                | VA1T | 29.5           | -25.5                 | 35.22                      | 54                     | -18.78      | -                   | -              | 92             | 371         | V        |
| 4      | * 2.48352       | 31.22                | VA1T | 29.5           | -25.5                 | 35.22                      | 54                     | -18.78      | -                   | -              | 92             | 371         | V        |

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

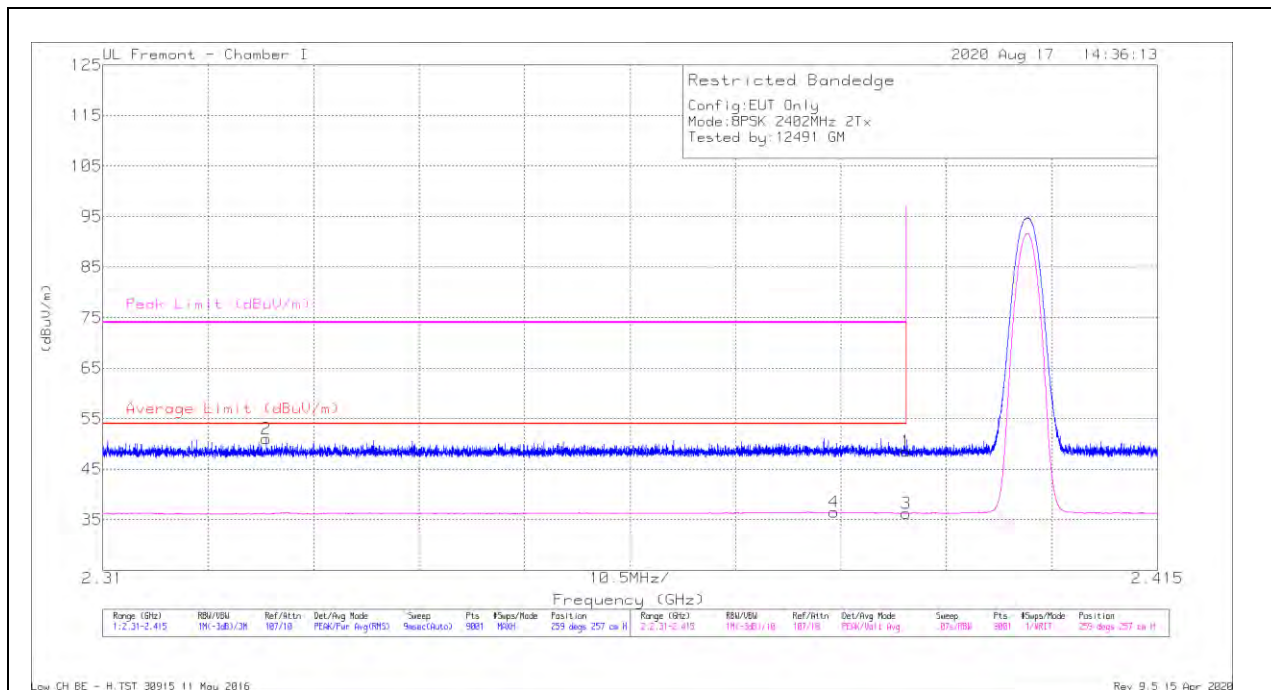
Pk - Peak detector

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

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

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 33.86                | Pk   | 32             | -17.3                  | 48.56                      | -                      | -           | 74                  | -25.44         | 259            | 257         | H        |
| 2      | * 2.32628       | 36.52                | Pk   | 31.7           | -17.2                  | 51.02                      | -                      | -           | 74                  | -22.98         | 259            | 257         | H        |
| 3      | * 2.38999       | 21.59                | VA1T | 32             | -17.3                  | 36.29                      | 54                     | -17.71      | -                   | -              | 259            | 257         | H        |
| 4      | * 2.38283       | 21.79                | VA1T | 32             | -17.3                  | 36.49                      | 54                     | -17.51      | -                   | -              | 259            | 257         | H        |

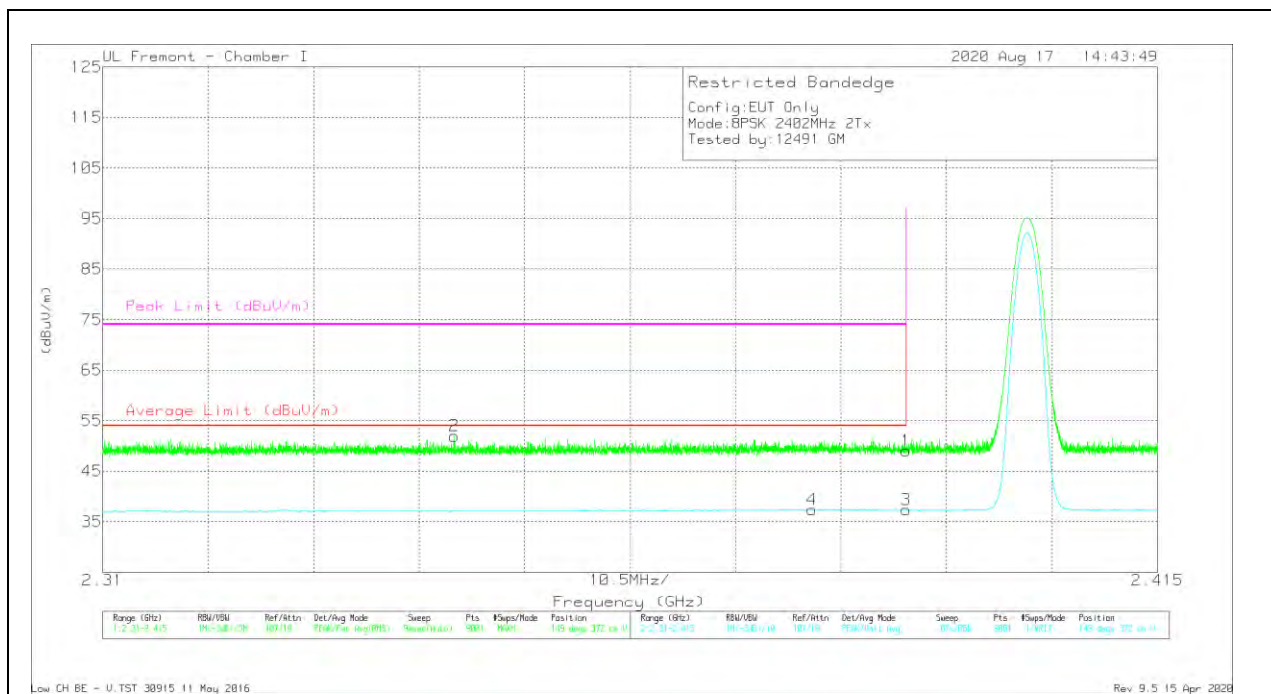
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

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 T346 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Dega) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.35                | Pk   | 32             | -17.3                  | 49.05                      | -                      | -           | 74                  | -24.95         | 149            | 372         | V        |
| 2      | * 2.34502       | 37.37                | Pk   | 31.8           | -17.2                  | 51.97                      | -                      | -           | 74                  | -22.03         | 149            | 372         | V        |
| 3      | * 2.38999       | 22.63                | VA1T | 32             | -17.3                  | 37.33                      | 54                     | -16.67      | -                   | -              | 149            | 372         | V        |
| 4      | * 2.38061       | 22.71                | VA1T | 32             | -17.3                  | 37.41                      | 54                     | -16.59      | -                   | -              | 149            | 372         | V        |

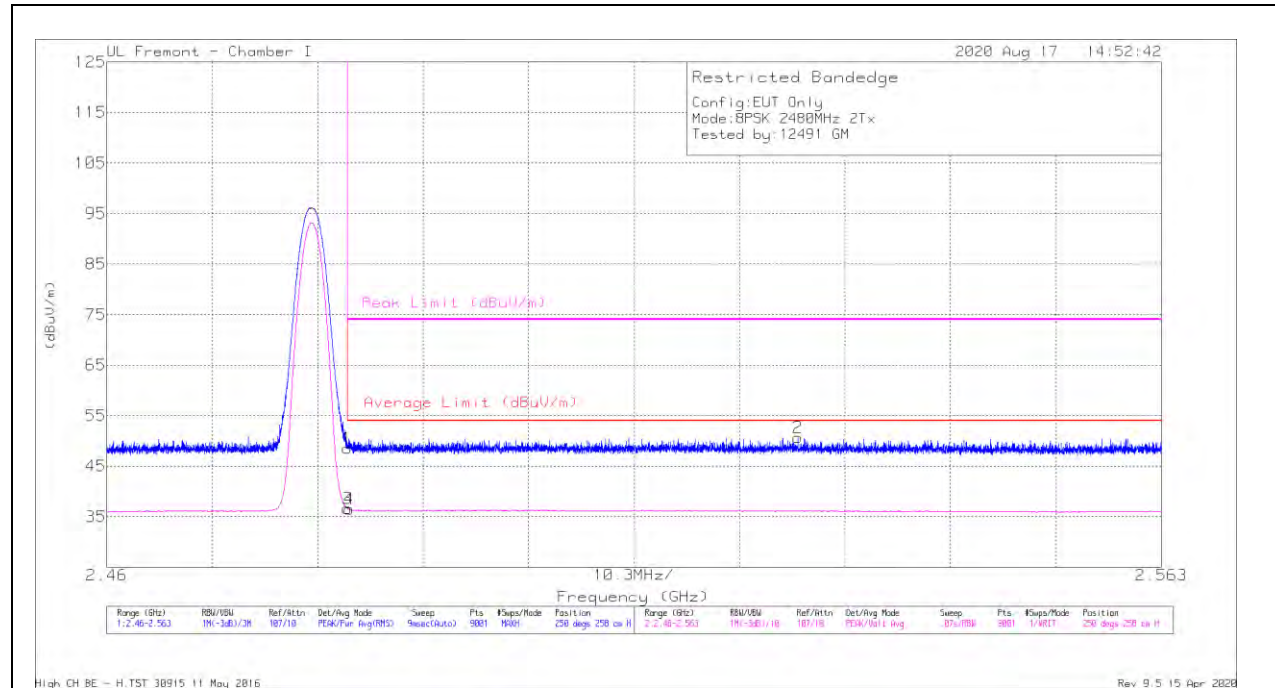
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

# **BANDEDGE (HIGH CHANNEL)**

## **HORIZONTAL RESULT**



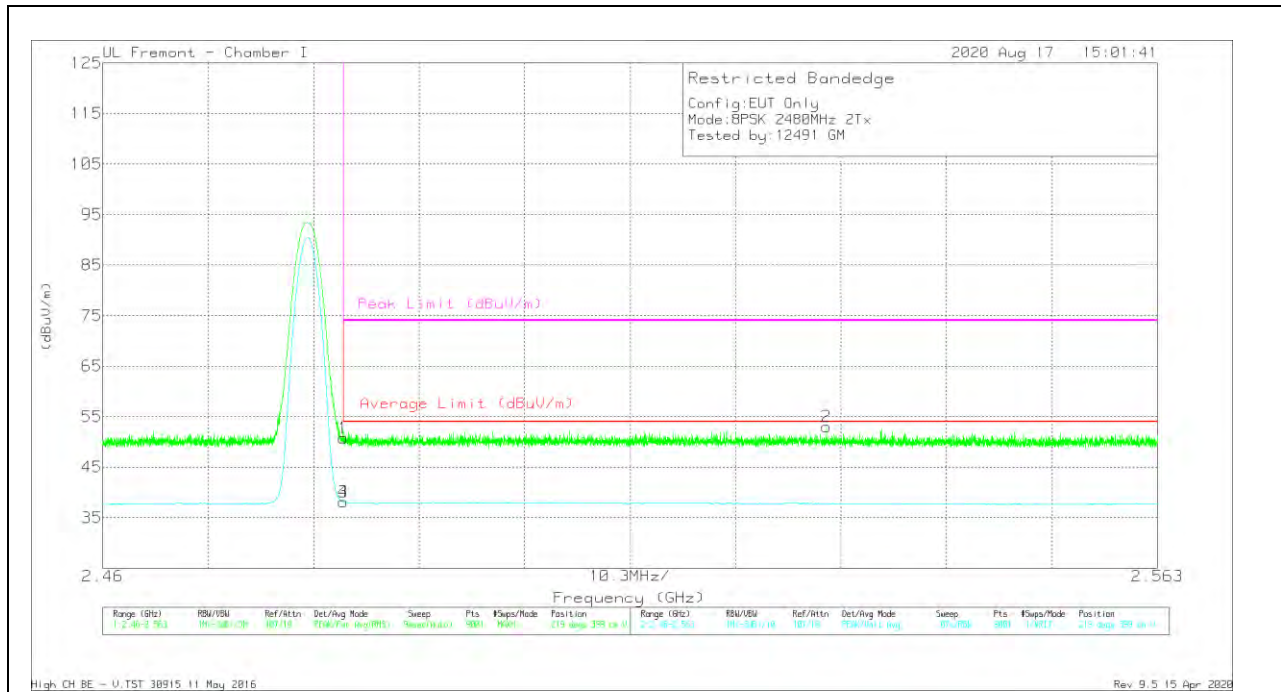
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T346 (dB/m) | Amp/Cbll/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 33.87                | Pk   | 32.4           | -17.7                    | 48.57                      | -                      | -           | 74                  | -25.43         | 250            | 258         | H        |
| 2      | 2.5275          | 36.01                | Pk   | 32.4           | -17.8                    | 50.61                      | -                      | -           | 74                  | -23.39         | 250            | 258         | H        |
| 3      | * 2.48351       | 21.95                | VA1T | 32.4           | -17.7                    | 36.65                      | 54                     | -17.35      | -                   | -              | 250            | 258         | H        |
| 4      | * 2.48367       | 21.76                | VA1T | 32.4           | -17.7                    | 36.46                      | 54                     | -17.54      | -                   | -              | 250            | 258         | 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 T346 (dB/m) | Amp/Cbl/FitriPa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Dega) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 36.06                | Pk   | 32.4           | -17.7                  | 50.76                      | -                      | -           | 74                  | -23.24         | 219            | 399         | V        |
| 2      | 2.53067         | 38.43                | Pk   | 32.4           | -17.8                  | 53.03                      | -                      | -           | 74                  | -20.97         | 219            | 399         | V        |
| 3      | * 2.48351       | 23.37                | VA1T | 32.4           | -17.7                  | 38.07                      | 54                     | -15.93      | -                   | -              | 219            | 399         | V        |
| 4      | * 2.48352       | 23.37                | VA1T | 32.4           | -17.7                  | 38.07                      | 54                     | -15.93      | -                   | -              | 219            | 399         | V        |

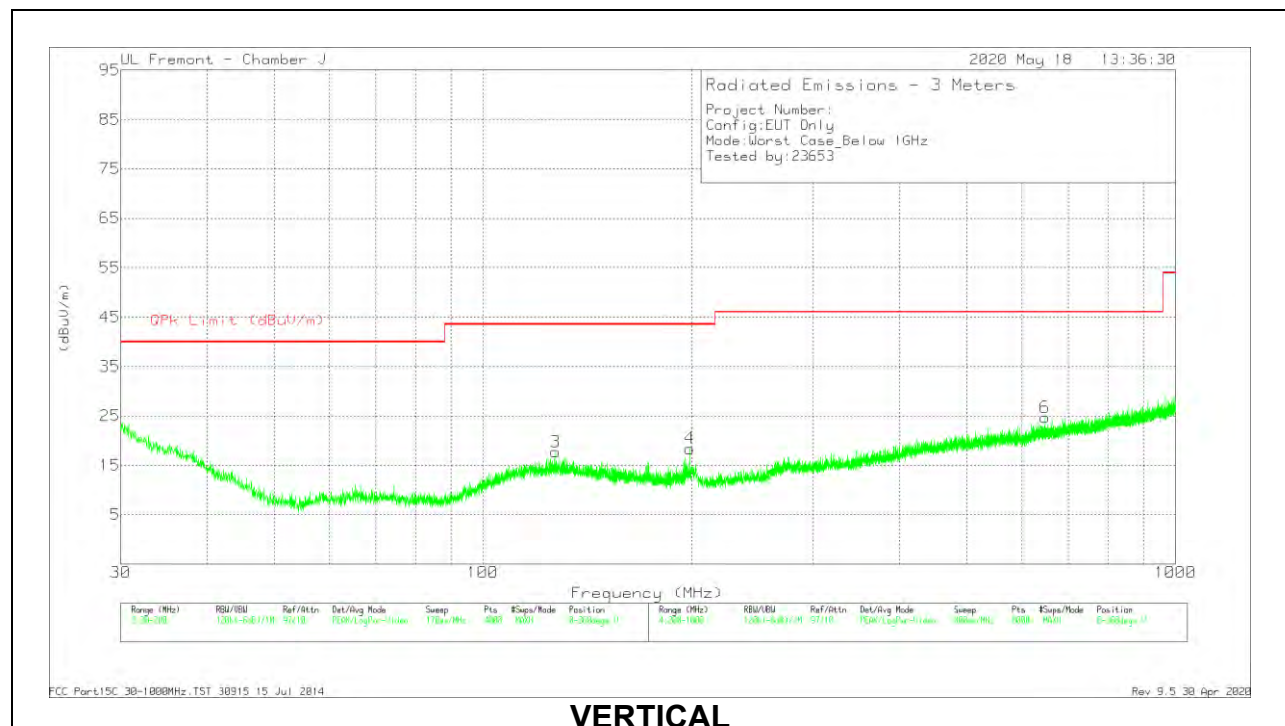
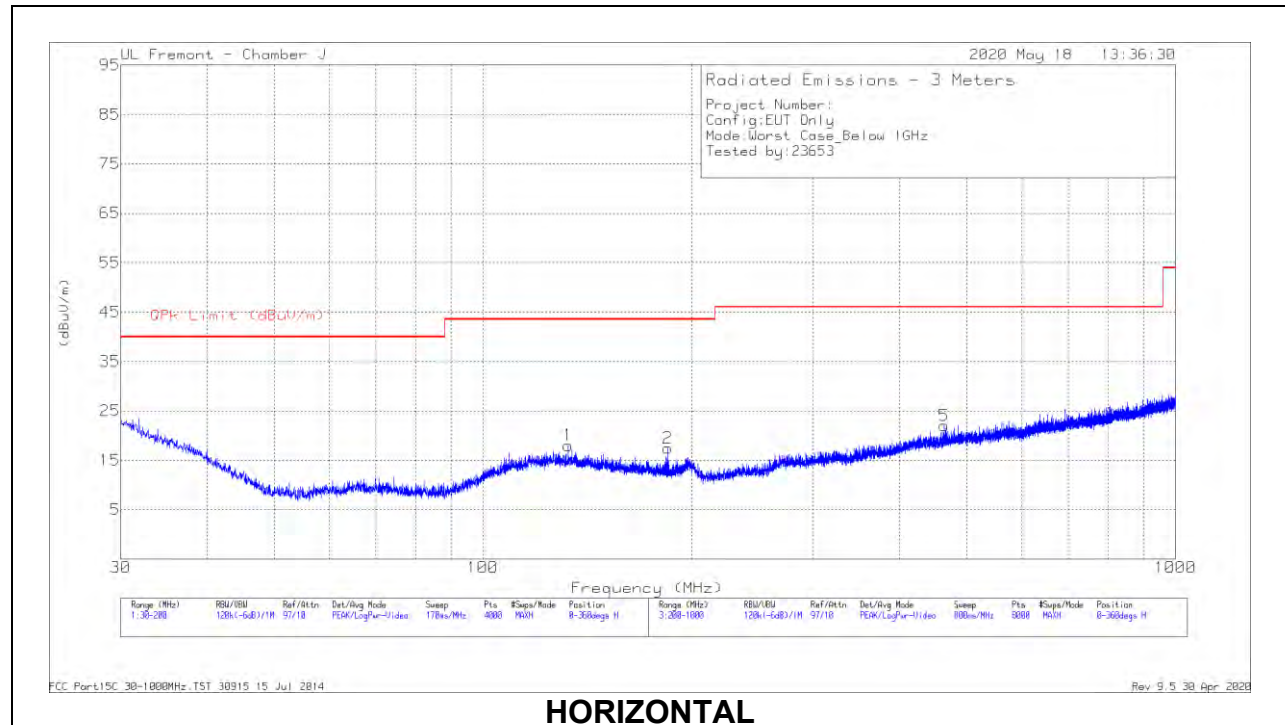
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

## 10.2. WORST CASE BELOW 1 GHZ

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



## Below 1GHz Data

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T899 (dB/m) | Amp Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | * 132.7916      | 29.35                | Pk  | 19.5           | -30.8        | 18.05                      | 43.52              | -25.47      | 0-360          | 196         | H        |
| 2      | 184.8676        | 30.86                | Pk  | 17.1           | -30.5        | 17.46                      | 43.52              | -26.06      | 0-360          | 100         | H        |
| 3      | * 127.4777      | 29.08                | Pk  | 19.6           | -30.9        | 17.78                      | 43.52              | -25.74      | 0-360          | 100         | V        |
| 4      | 198.7262        | 30.33                | Pk  | 18.5           | -30.4        | 18.43                      | 43.52              | -25.09      | 0-360          | 100         | V        |
| 5      | 463.9343        | 28.59                | Pk  | 23             | -29.6        | 21.99                      | 46.02              | -24.03      | 0-360          | 299         | H        |
| 6      | 647.6582        | 28.19                | Pk  | 25.6           | -29.1        | 24.69                      | 46.02              | -21.33      | 0-360          | 199         | V        |

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

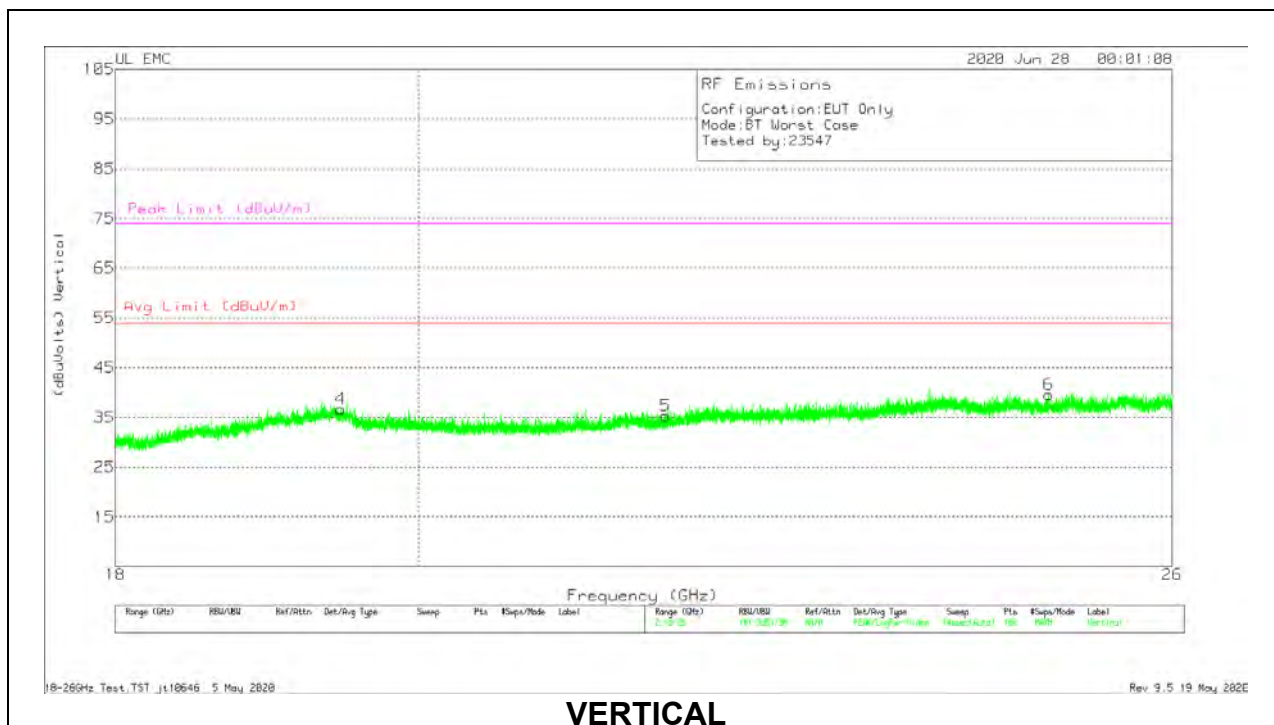
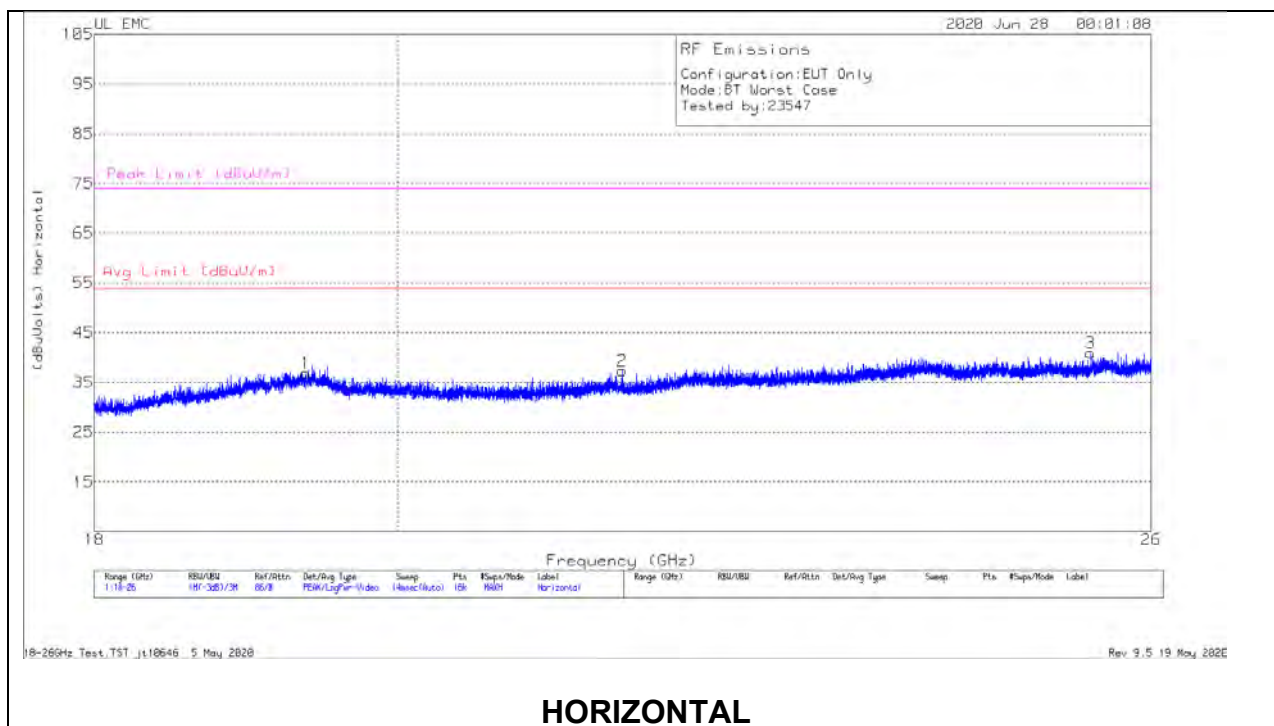
Pk - Peak detector

FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014  
Rev 9.5 30 Apr 2020



## 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 | T125 AF (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------|------------------------------|--------------------|-------------|---------------------|----------------|
| 1      | 19.37291        | 32.64                | Pk  | 32.6           | -18.9        | -9.5           | 36.84                        | 54                 | -17.16      | 74                  | -37.16         |
| 2      | 21.62828        | 34.23                | Pk  | 33.2           | -20.6        | -9.5           | 37.33                        | 54                 | -16.67      | 74                  | -36.67         |
| 3      | 25.45554        | 35.85                | Pk  | 34.1           | -19.5        | -9.5           | 40.95                        | 54                 | -13.05      | 74                  | -33.05         |
| 4      | 19.46741        | 32.42                | Pk  | 32.8           | -19          | -9.5           | 36.72                        | 54                 | -17.28      | 74                  | -37.28         |
| 5      | 21.79526        | 32.54                | Pk  | 33.2           | -20.9        | -9.5           | 35.34                        | 54                 | -18.66      | 74                  | -38.66         |
| 6      | 24.90657        | 34.39                | Pk  | 34.3           | -19.6        | -9.5           | 39.59                        | 54                 | -14.41      | 74                  | -34.41         |

Pk - Peak detector

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

| Frequency of Emission (MHz) | Conducted Limit (dBuV) |           |
|-----------------------------|------------------------|-----------|
|                             | 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.

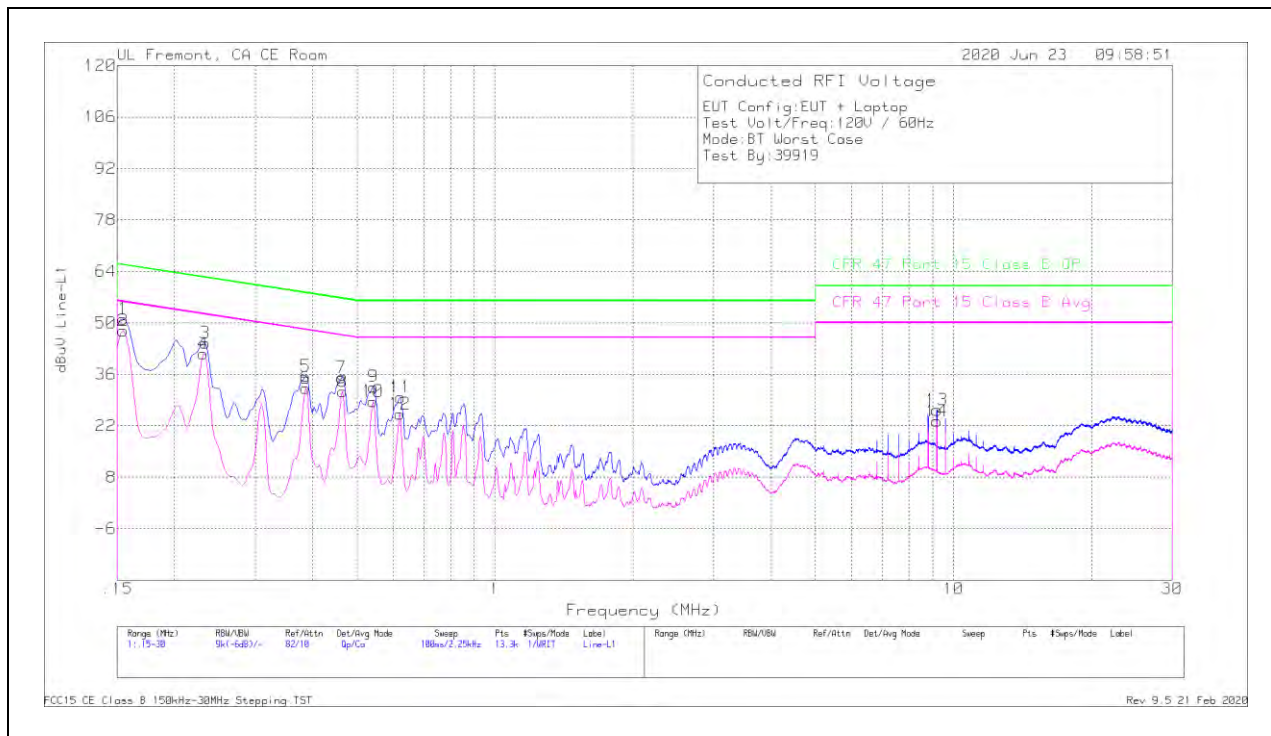
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

## 11.1. AC POWER LINE WITH LAPTOP

### LINE 1 RESULTS



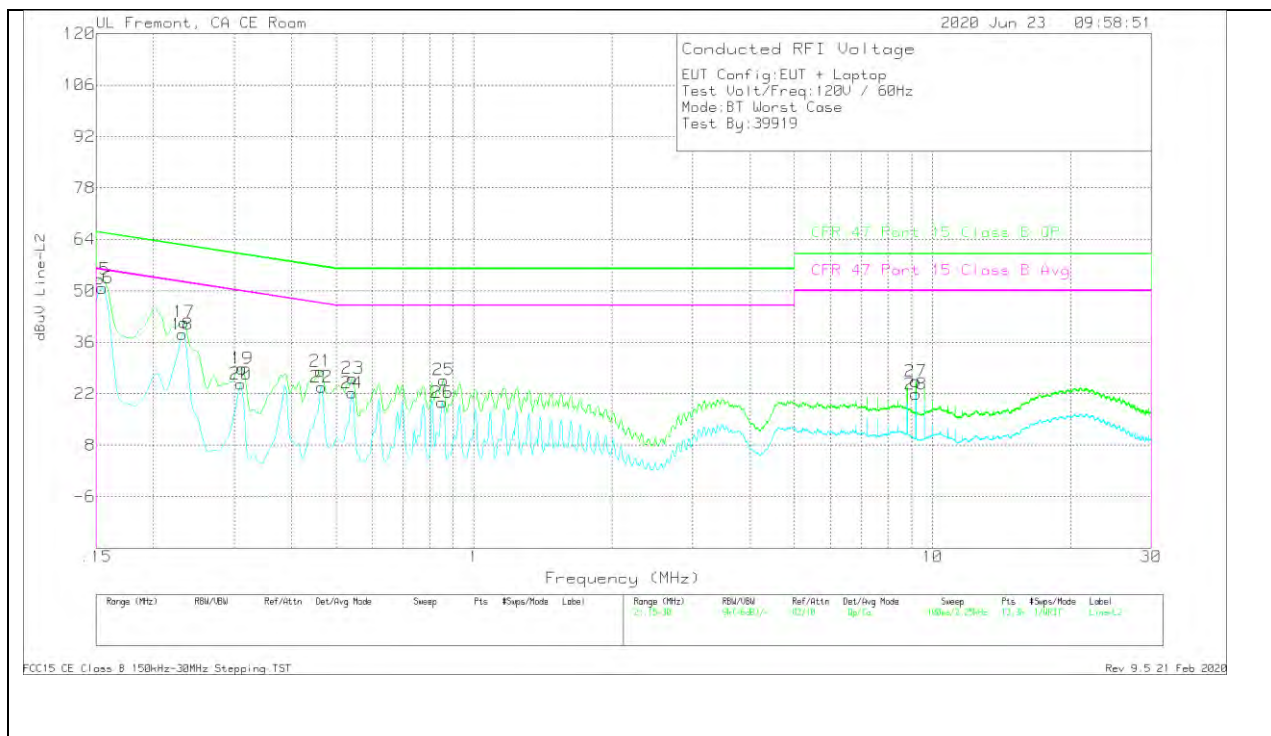
Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
|--------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| 1      | .1545           | 40.95                | Qp  | .1                  | 0               | 10           | 51.05                  | 65.75                     | -14.7          | -                          | -                     |
| 2      | .1545           | 37.77                | Ca  | .1                  | 0               | 10           | 47.87                  | -                         | -              | 55.75                      | -7.88                 |
| 3      | .23325          | 34.52                | Qp  | 0                   | 0               | 10           | 44.52                  | 62.33                     | -17.81         | -                          | -                     |
| 4      | .231            | 31.58                | Ca  | 0                   | 0               | 10           | 41.58                  | -                         | -              | 52.41                      | -10.83                |
| 5      | .38625          | 25.45                | Qp  | 0                   | 0               | 10           | 35.45                  | 58.14                     | -22.69         | -                          | -                     |
| 6      | .38625          | 22.2                 | Ca  | 0                   | 0               | 10           | 32.2                   | -                         | -              | 48.14                      | -15.94                |
| 7      | .46275          | 25.09                | Qp  | 0                   | 0               | 10           | 35.09                  | 56.64                     | -21.55         | -                          | -                     |
| 8      | .465            | 21.29                | Ca  | 0                   | 0               | 10           | 31.29                  | -                         | -              | 46.6                       | -15.31                |
| 9      | .54375          | 22.59                | Qp  | 0                   | 0               | 10           | 32.59                  | 56                        | -23.41         | -                          | -                     |
| 10     | .5415           | 18.6                 | Ca  | 0                   | 0               | 10           | 28.6                   | -                         | -              | 46                         | -17.4                 |
| 11     | .6225           | 19.71                | Qp  | 0                   | 0               | 10           | 29.71                  | 56                        | -26.29         | -                          | -                     |
| 12     | .62025          | 15.19                | Ca  | 0                   | 0               | 10           | 25.19                  | -                         | -              | 46                         | -20.81                |
| 13     | 9.1995          | 15.98                | Qp  | 0                   | .2              | 10.1         | 26.28                  | 60                        | -33.72         | -                          | -                     |
| 14     | 9.19725         | 12.94                | Ca  | 0                   | .2              | 10.1         | 23.24                  | -                         | -              | 50                         | -26.76                |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## LINE 2 RESULTS



| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |                     |                 |              |                        |                           |                |                            |                       |
|------------------------------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
| 15                           | .15225          | 43.21                | Qp  | 0                   | 0               | 10           | 53.21                  | 65.88                     | -12.67         | -                          | -                     |
| 16                           | .1545           | 40.76                | Ca  | 0                   | 0               | 10           | 50.76                  | -                         | -              | 55.75                      | -4.99                 |
| 17                           | .23325          | 31.5                 | Qp  | 0                   | 0               | 10           | 41.5                   | 62.33                     | -20.83         | -                          | -                     |
| 18                           | .231            | 28.14                | Ca  | 0                   | 0               | 10           | 38.14                  | -                         | -              | 52.41                      | -14.27                |
| 19                           | .312            | 18.85                | Qp  | 0                   | 0               | 10           | 28.85                  | 59.92                     | -31.07         | -                          | -                     |
| 20                           | .30975          | 14.68                | Ca  | 0                   | 0               | 10           | 24.68                  | -                         | -              | 49.98                      | -25.3                 |
| 21                           | .46275          | 18.11                | Qp  | 0                   | 0               | 10           | 28.11                  | 56.64                     | -28.53         | -                          | -                     |
| 22                           | .465            | 13.82                | Ca  | 0                   | 0               | 10           | 23.82                  | -                         | -              | 46.6                       | -22.78                |
| 23                           | .54375          | 16.24                | Qp  | 0                   | 0               | 10           | 26.24                  | 56                        | -29.76         | -                          | -                     |
| 24                           | .5415           | 12.23                | Ca  | 0                   | 0               | 10           | 22.23                  | -                         | -              | 46                         | -23.77                |
| 25                           | .85875          | 15.74                | Qp  | 0                   | 0               | 10           | 25.74                  | 56                        | -30.26         | -                          | -                     |
| 26                           | .852            | 9.64                 | Ca  | 0                   | 0               | 10           | 19.64                  | -                         | -              | 46                         | -26.36                |
| 27                           | 9.19725         | 15.12                | Qp  | 0                   | .2              | 10.1         | 25.42                  | 60                        | -34.58         | -                          | -                     |
| 28                           | 9.1995          | 11.58                | Ca  | 0                   | .2              | 10.1         | 21.88                  | -                         | -              | 50                         | -28.12                |

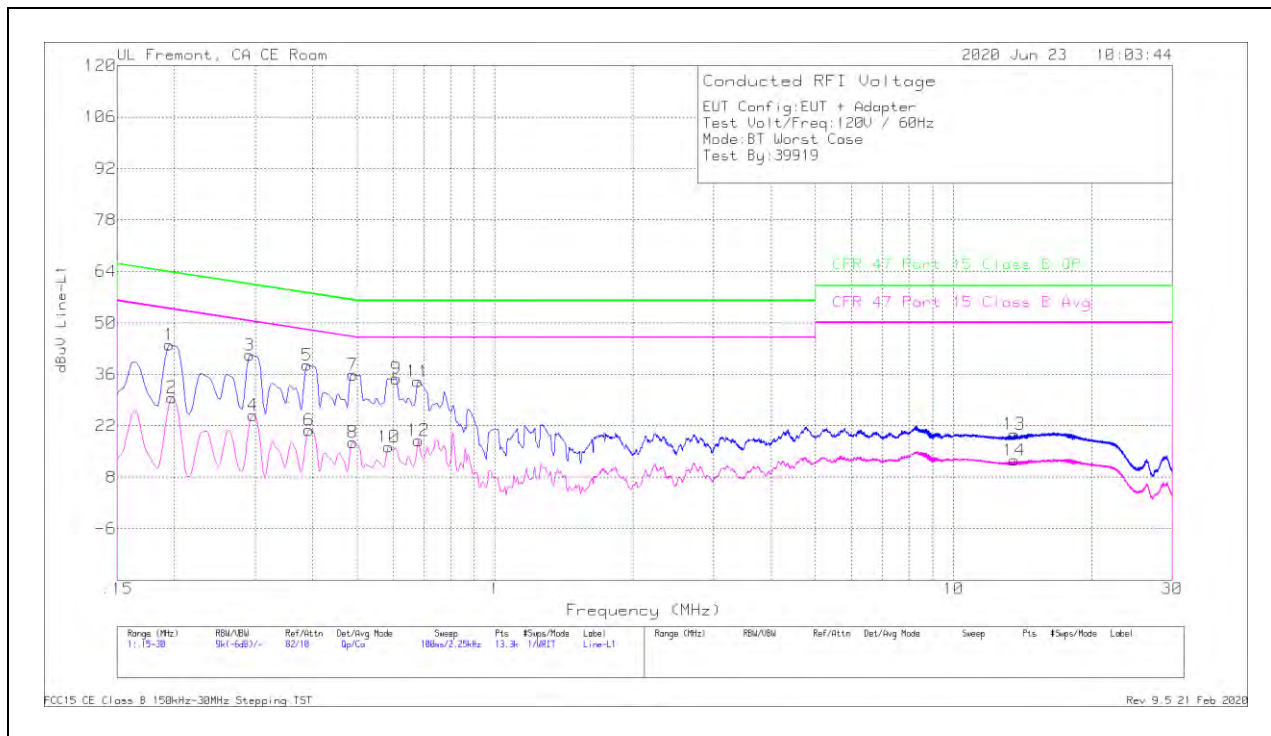
Qp - Quasi-Peak detector

Ca - CISPR average detection



## 11.2. AC POWER LINE WITH AC/DC ADAPTER

### LINE 1 RESULTS



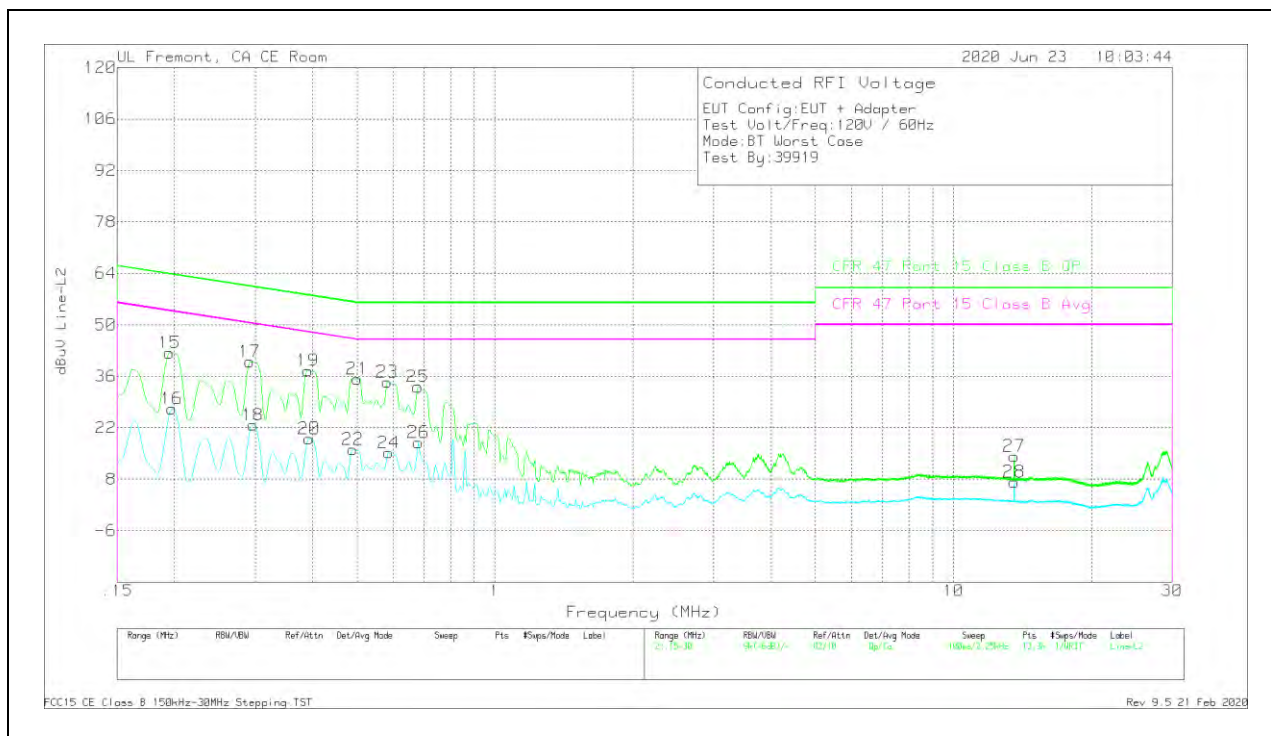
Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
|--------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| 1      | .195            | 34                   | Qp  | 0                   | 0               | 10           | 44                     | 63.82                     | -19.82         | -                          | -                     |
| 2      | .19725          | 19.64                | Ca  | 0                   | 0               | 10           | 29.64                  | -                         | -              | 53.73                      | -24.09                |
| 3      | .29175          | 31.21                | Qp  | 0                   | 0               | 10           | 41.21                  | 60.47                     | -19.26         | -                          | -                     |
| 4      | .29625          | 14.83                | Ca  | 0                   | 0               | 10           | 24.83                  | -                         | -              | 50.35                      | -25.52                |
| 5      | .3885           | 28.47                | Qp  | 0                   | 0               | 10           | 38.47                  | 58.1                      | -19.63         | -                          | -                     |
| 6      | .393            | 10.83                | Ca  | 0                   | 0               | 10           | 20.83                  | -                         | -              | 48                         | -27.17                |
| 7      | .48975          | 25.88                | Qp  | 0                   | 0               | 10           | 35.88                  | 56.17                     | -20.29         | -                          | -                     |
| 8      | .48975          | 7.47                 | Ca  | 0                   | 0               | 10           | 17.47                  | -                         | -              | 46.17                      | -28.7                 |
| 9      | .609            | 24.85                | Qp  | 0                   | 0               | 10           | 34.85                  | 56                        | -21.15         | -                          | -                     |
| 10     | .5865           | 6.22                 | Ca  | 0                   | 0               | 10           | 16.22                  | -                         | -              | 46                         | -29.78                |
| 11     | .67875          | 24.02                | Qp  | 0                   | 0               | 10           | 34.02                  | 56                        | -21.98         | -                          | -                     |
| 12     | .681            | 7.98                 | Ca  | 0                   | 0               | 10           | 17.98                  | -                         | -              | 46                         | -28.02                |
| *13    | 13.56225        | 9.33                 | Qp  | .1                  | .2              | 10.1         | 19.73                  | 60                        | -40.27         | -                          | -                     |
| *14    | 13.56225        | 2.23                 | Ca  | .1                  | .2              | 10.1         | 12.63                  | -                         | -              | 50                         | -37.37                |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## LINE 2 RESULTS



| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |                     |                 |              |                        |                           |                |                            |                       |
|------------------------------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
| 15                           | .195            | 32.39                | Qp  | 0                   | 0               | 10           | 42.39                  | 63.82                     | -21.43         | -                          | -                     |
| 16                           | .19725          | 17.16                | Ca  | 0                   | 0               | 10           | 27.16                  | -                         | -              | 53.73                      | -26.57                |
| 17                           | .29175          | 30                   | Qp  | 0                   | 0               | 10           | 40                     | 60.47                     | -20.47         | -                          | -                     |
| 18                           | .29625          | 12.76                | Ca  | 0                   | 0               | 10           | 22.76                  | -                         | -              | 50.35                      | -27.59                |
| 19                           | .39075          | 27.56                | Qp  | 0                   | 0               | 10           | 37.56                  | 58.05                     | -20.49         | -                          | -                     |
| 20                           | .393            | 9                    | Ca  | 0                   | 0               | 10           | 19                     | -                         | -              | 48                         | -29                   |
| 21                           | .501            | 25.31                | Qp  | 0                   | 0               | 10           | 35.31                  | 56                        | -20.69         | -                          | -                     |
| 22                           | .48975          | 6.09                 | Ca  | 0                   | 0               | 10           | 16.09                  | -                         | -              | 46.17                      | -30.08                |
| 23                           | .582            | 24.41                | Qp  | 0                   | 0               | 10           | 34.41                  | 56                        | -21.59         | -                          | -                     |
| 24                           | .5865           | 5.23                 | Ca  | 0                   | 0               | 10           | 15.23                  | -                         | -              | 46                         | -30.77                |
| 25                           | .67875          | 23.12                | Qp  | 0                   | 0               | 10           | 33.12                  | 56                        | -22.88         | -                          | -                     |
| 26                           | .681            | 7.98                 | Ca  | 0                   | 0               | 10           | 17.98                  | -                         | -              | 46                         | -28.02                |
| *27                          | 13.56           | 3.85                 | Qp  | .1                  | .2              | 10.1         | 14.25                  | 60                        | -45.75         | -                          | -                     |
| *28                          | 13.56           | -3.17                | Ca  | .1                  | .2              | 10.1         | 7.23                   | -                         | -              | 50                         | -42.77                |

Qp - Quasi-Peak detector

Ca - CISPR average detection

\*Indicates UL RFID signal. Not from device.

## **12. SETUP PHOTOS**

Please refer to 13179110-EP1V1 for setup photos

**END OF TEST REPORT**