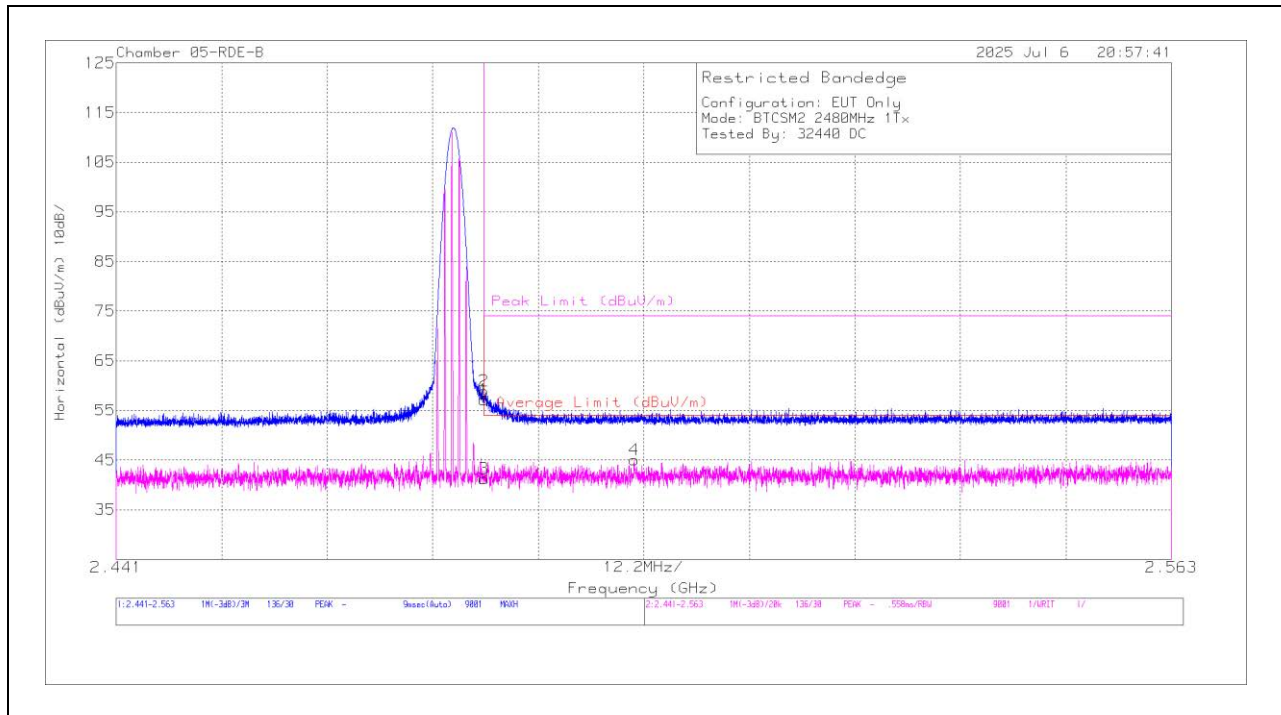


**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

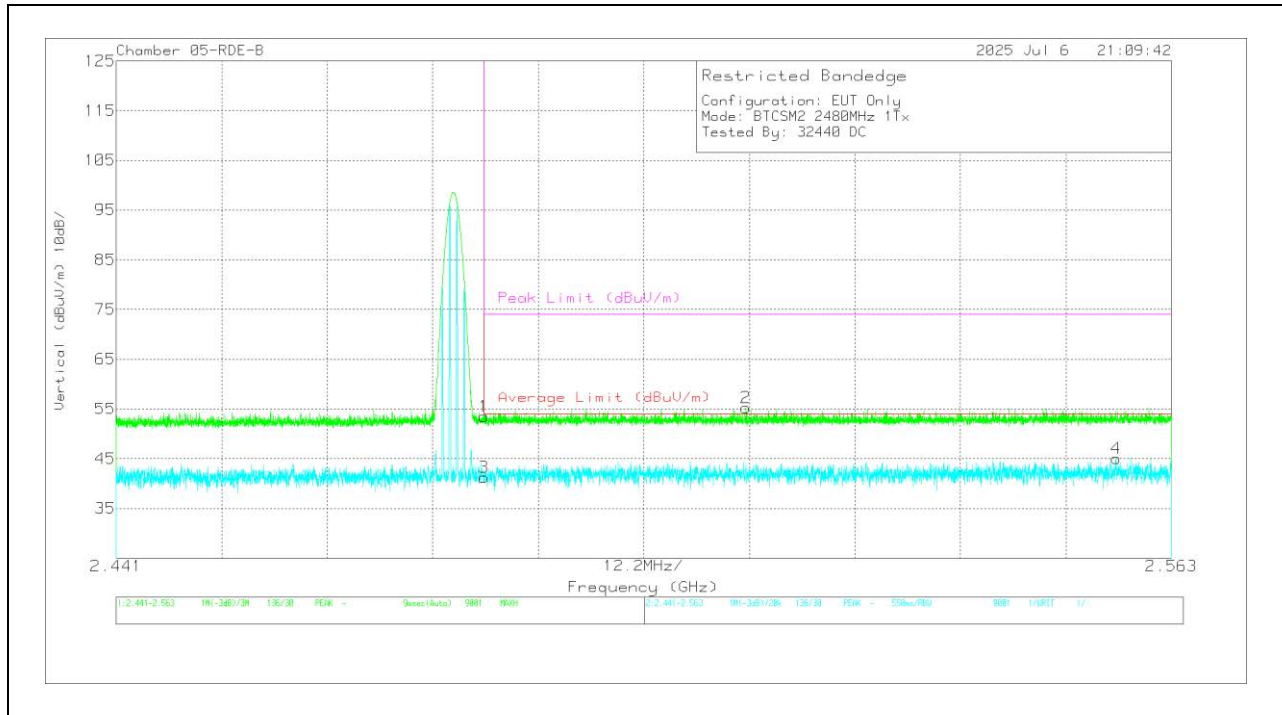
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 65.34                | Pk   | 32.2              | -40.39         | 57.15                      | -                      | -           | 74                  | -16.85      | 6              | 122         | H        |
| 2      | *2.483539       | 67.1                 | Pk   | 32.2              | -40.38         | 58.92                      | -                      | -           | 74                  | -15.08      | 6              | 122         | H        |
| 3      | *2.4835         | 49.43                | VA1T | 32.2              | -40.39         | 41.24                      | 54                     | -12.76      | -                   | -           | 6              | 122         | H        |
| 4      | *2.500877       | 53.08                | VA1T | 32.3              | -40.38         | 45                         | 54                     | -9          | -                   | -           | 6              | 122         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 61.63                | Pk   | 32.2              | -40.39         | 53.44                      | -                      | -           | 74                  | -20.56      | 288            | 220         | V        |
| 2      | *2.513823       | 63.25                | Pk   | 32.3              | -40.26         | 55.29                      | -                      | -           | 74                  | -18.71      | 288            | 220         | V        |
| 3      | *2.4835         | 49.41                | VA1T | 32.2              | -40.39         | 41.22                      | 54                     | -12.78      | -                   | -           | 288            | 220         | V        |
| 4      | *2.556592       | 52.83                | VA1T | 32.3              | -40.11         | 45.02                      | 54                     | -8.98       | -                   | -           | 288            | 220         | V        |

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

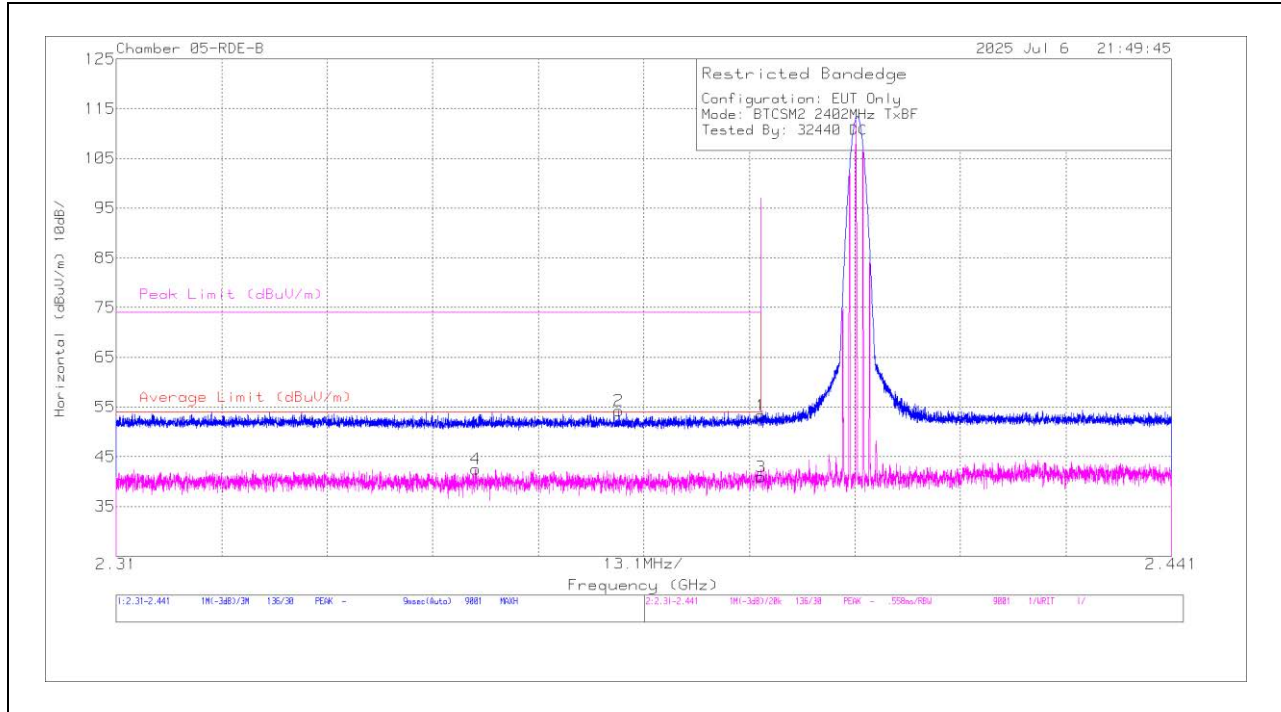
Pk - Peak detector

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

## 10.1.6. HIGH POWER ENHANCED DATA RATE TX BF BTCSM2 MODULATION

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



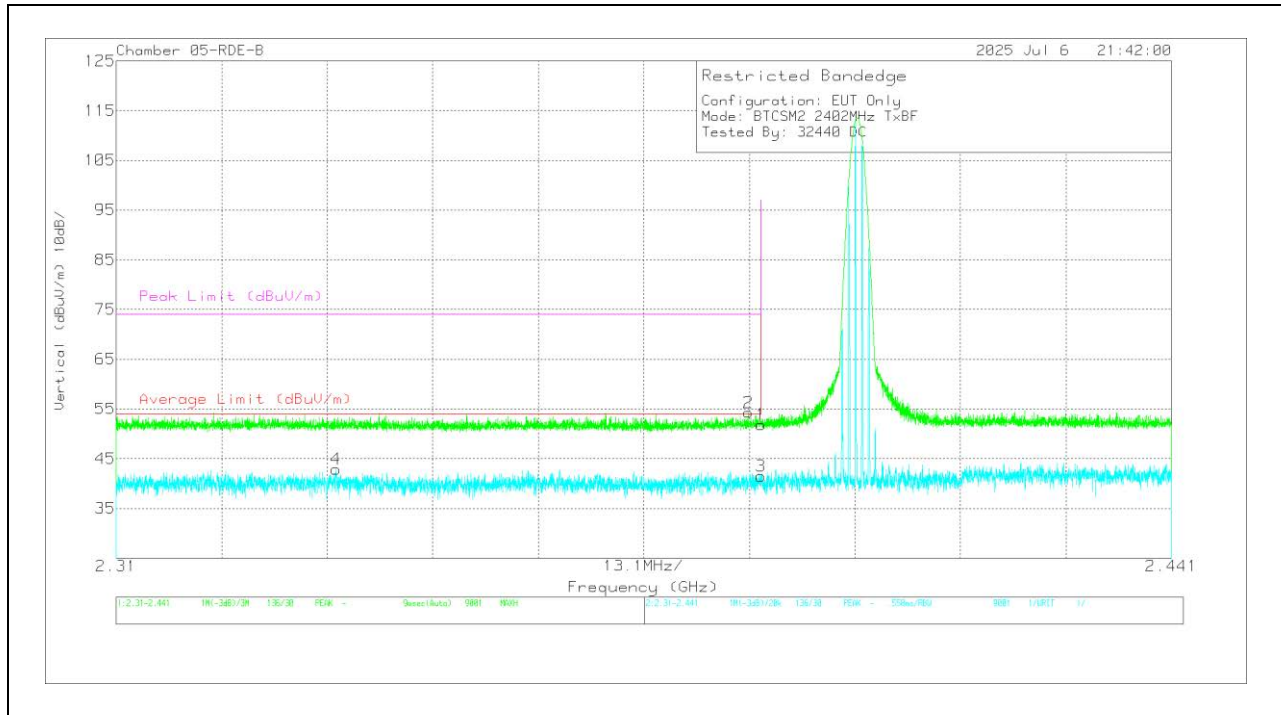
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.39           | 61.69                | Pk   | 32                | -40.39         | 53.3                       | -                      | -           | 74                  | -20.7       | 65             | 101         | H        |
| 2      | *2.372387       | 62.93                | Pk   | 31.9              | -40.57         | 54.26                      | -                      | -           | 74                  | -19.74      | 65             | 101         | H        |
| 3      | *2.39           | 49.33                | VA1T | 32                | -40.39         | 40.94                      | 54                     | -13.06      | -                   | -           | 65             | 101         | H        |
| 4      | *2.354658       | 51.09                | VA1T | 31.9              | -40.47         | 42.52                      | 54                     | -11.48      | -                   | -           | 65             | 101         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT

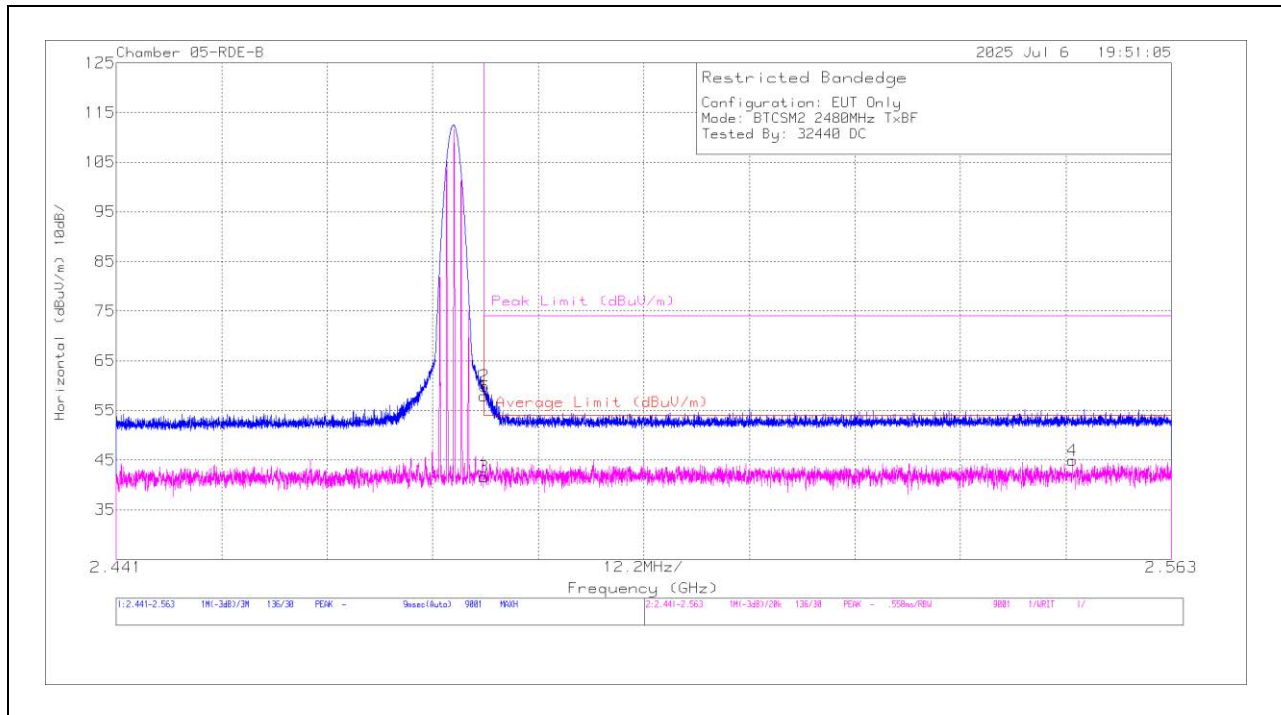


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.39           | 60.23                | Pk   | 32                | -40.39         | 51.84                      | -                      | -           | 74                  | -22.16      | 123            | 139         | V        |
| 2      | *2.388457       | 62.68                | Pk   | 32                | -40.38         | 54.3                       | -                      | -           | 74                  | -19.7       | 123            | 139         | V        |
| 3      | *2.39           | 49.87                | VA1T | 32                | -40.39         | 41.48                      | 54                     | -12.52      | -                   | -           | 123            | 139         | V        |
| 4      | *2.337263       | 51.73                | VA1T | 31.8              | -40.62         | 42.91                      | 54                     | -11.09      | -                   | -           | 123            | 139         | 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**

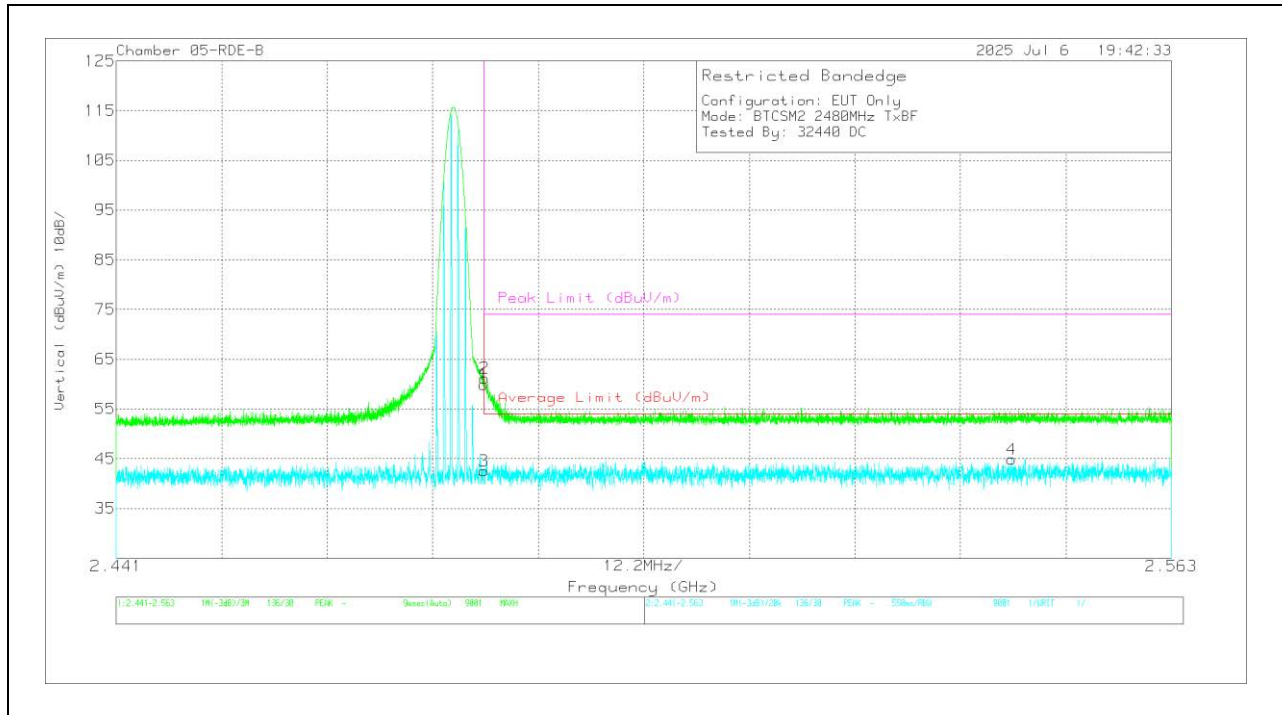
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 66.12                | Pk   | 32.2              | -40.39         | 57.93                      | -                      | -           | 74                  | -16.07      | 345            | 160         | H        |
| 2      | *2.483593       | 68.13                | Pk   | 32.2              | -40.38         | 59.95                      | -                      | -           | 74                  | -14.05      | 345            | 160         | H        |
| 3      | *2.4835         | 49.8                 | VA1T | 32.2              | -40.39         | 41.61                      | 54                     | -12.39      | -                   | -           | 345            | 160         | H        |
| 4      | *2.551549       | 52.68                | VA1T | 32.3              | -40.11         | 44.87                      | 54                     | -9.13       | -                   | -           | 345            | 160         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 68.15                | Pk   | 32.2              | -40.39         | 59.96                      | -                      | -           | 74                  | -14.04      | 305            | 129         | V        |
| 2      | *2.483566       | 69.36                | Pk   | 32.2              | -40.38         | 61.18                      | -                      | -           | 74                  | -12.82      | 305            | 129         | V        |
| 3      | *2.4835         | 50.75                | VA1T | 32.2              | -40.39         | 42.56                      | 54                     | -11.44      | -                   | -           | 305            | 129         | V        |
| 4      | *2.544527       | 52.69                | VA1T | 32.3              | -40.14         | 44.85                      | 54                     | -9.15       | -                   | -           | 305            | 129         | V        |

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

Pk - Peak detector

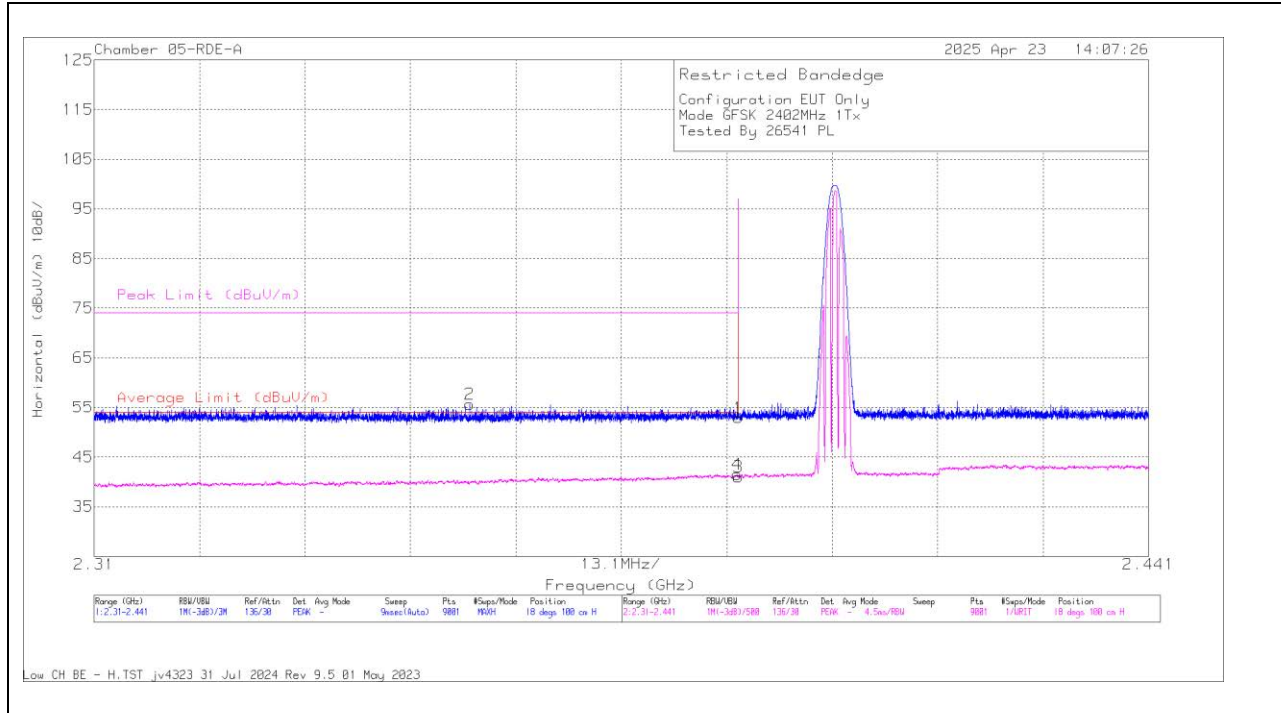
VA1T - FHSS: Linear Voltage Average  $V_B = 1/T_{on}$  where:  $T_{on}$  is transmit duration

## 10.1.7. LOW POWER BASIC DATA RATE GFSK MODULATION

### ANT 2

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 60.31                | Pk   | 32.1             | -39.5          | 52.91                      | -                      | -           | 74                  | -21.09      | 18             | 100         | H        |
| 2      | * 2.356667      | 63.36                | Pk   | 31.9             | -39.67         | 55.59                      | -                      | -           | 74                  | -18.41      | 18             | 100         | H        |
| 3      | * 2.39          | 48.39                | VA1T | 32.1             | -39.5          | 40.99                      | 54                     | -13.01      | -                   | -           | 18             | 100         | H        |
| 4      | * 2.389854      | 48.93                | VA1T | 32.1             | -39.5          | 41.53                      | 54                     | -12.47      | -                   | -           | 18             | 100         | H        |

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

Pk - Peak detector

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

Chamber 05-RDE-A

2025 Apr 23 14:13:45

Restricted Bandedge

Configuration EUT Only

Made GFSK 2402MHz 1Tx

Tested By 26541 PL

Vertical (dBuV/m) 10dB/

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

13.1MHz/

Frequency (GHz)

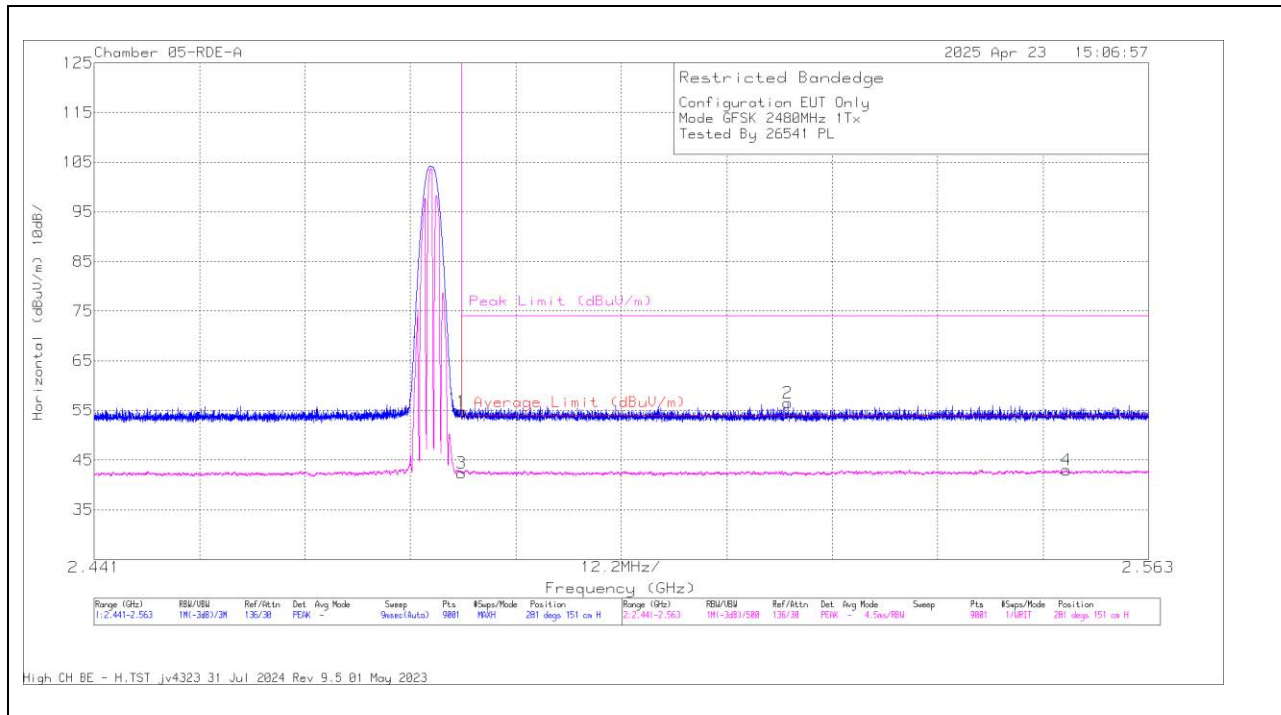
| Range (GHz)  | RBW/VBW     | Ref/AltIn | Det. Avg Mode | Sweep | Pts  | #Spts/Mode | Position          | Range (GHz)  | RBW/VBW      | Ref/AltIn | Det. Avg Mode | Sweep | Pts  | #Spts/Mode | Position          |
|--------------|-------------|-----------|---------------|-------|------|------------|-------------------|--------------|--------------|-----------|---------------|-------|------|------------|-------------------|
| 1.2731-2.441 | 100-3000/30 | 130/0     | Peak          | Auto  | 2000 | 4000       | 127 deg 100 cm 11 | 1.2731-2.441 | 100-3000/300 | 130/0     | Peak          | Auto  | 2000 | 4000       | 127 deg 100 cm 11 |

CH RF - U.IST iv4323.31 Jul 2024 Rev 9.5 01 May 2023

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average emit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|-----------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 60.9                 | Pk   | 32.1             | -39.5          | 53.5                       | -                     | -           | 74                  | -20.5       | 127            | 358         | V        |
| 2      | * 2.361994      | 64.15                | Pk   | 32               | -39.6          | 56.55                      | -                     | -           | 74                  | -17.45      | 127            | 358         | V        |
| 3      | * 2.39          | 48.38                | VA1T | 32.1             | -39.5          | 40.98                      | 54                    | -13.02      | -                   | -           | 127            | 358         | V        |
| 4      | * 2.387947      | 48.46                | VA1T | 32.1             | -39.4          | 41.16                      | 54                    | -12.84      | -                   | -           | 127            | 358         | V        |

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

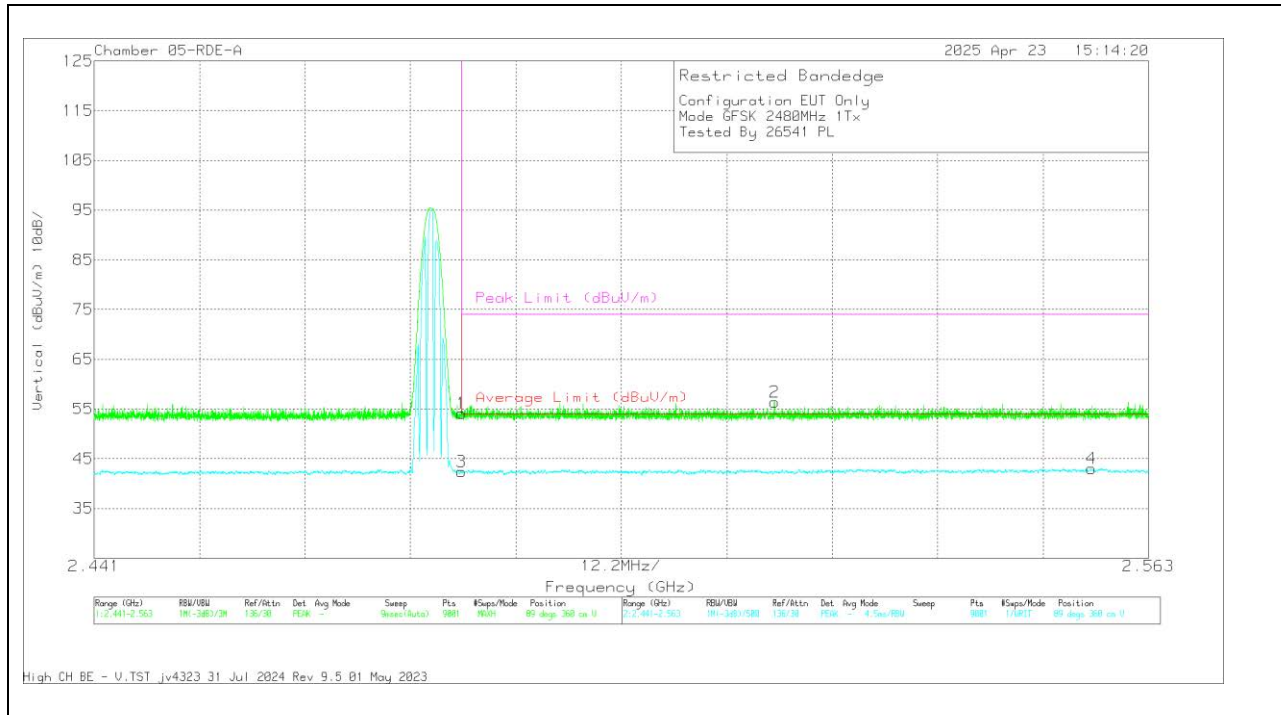
| Marker | Frequency (GHz) | Meter Reading (dBV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.72               | Pk   | 32.4             | -39.4          | 54.72                      | -                      | -           | 74                  | -19.28      | 281            | 151         | H        |
| 2      | 2.521252        | 63.54               | Pk   | 32.4             | -39.4          | 56.54                      | -                      | -           | 74                  | -17.46      | 281            | 151         | H        |
| 3      | * 2.4835        | 49.43               | VA1T | 32.4             | -39.4          | 42.43                      | 54                     | -11.57      | -                   | -           | 281            | 151         | H        |
| 4      | 2.553474        | 49.83               | VA1T | 32.5             | -39.3          | 43.03                      | 54                     | -10.97      | -                   | -           | 281            | 151         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT

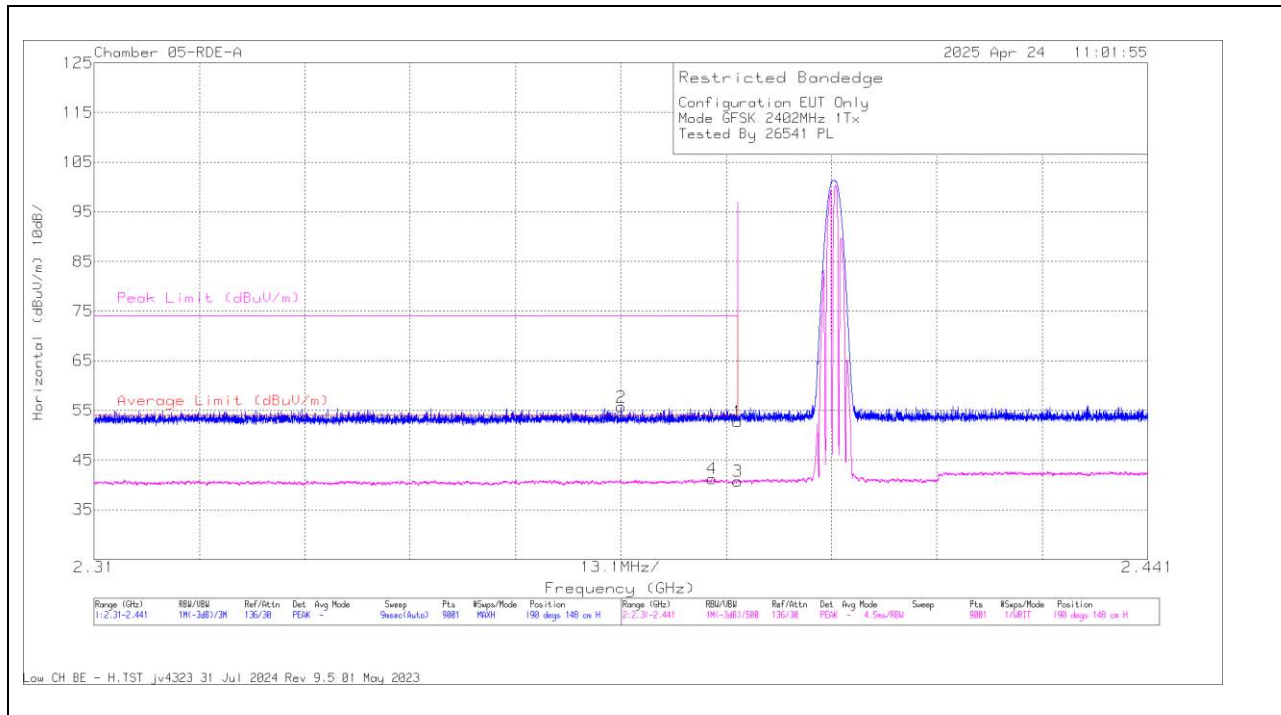


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.11                | Pk   | 32.4             | -39.4          | 54.11                      | -                      | -           | 74                  | -19.89      | 89             | 360         | V        |
| 2      | 2.519706        | 63.42                | Pk   | 32.4             | -39.4          | 56.42                      | -                      | -           | 74                  | -17.58      | 89             | 360         | V        |
| 3      | * 2.4835        | 49.43                | VA1T | 32.4             | -39.4          | 42.43                      | 54                     | -11.57      | -                   | -           | 89             | 360         | V        |
| 4      | 2.556416        | 49.82                | VA1T | 32.5             | -39.3          | 43.02                      | 54                     | -10.98      | -                   | -           | 89             | 360         | V        |

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

Pk - Peak detector

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

**ANT 1****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

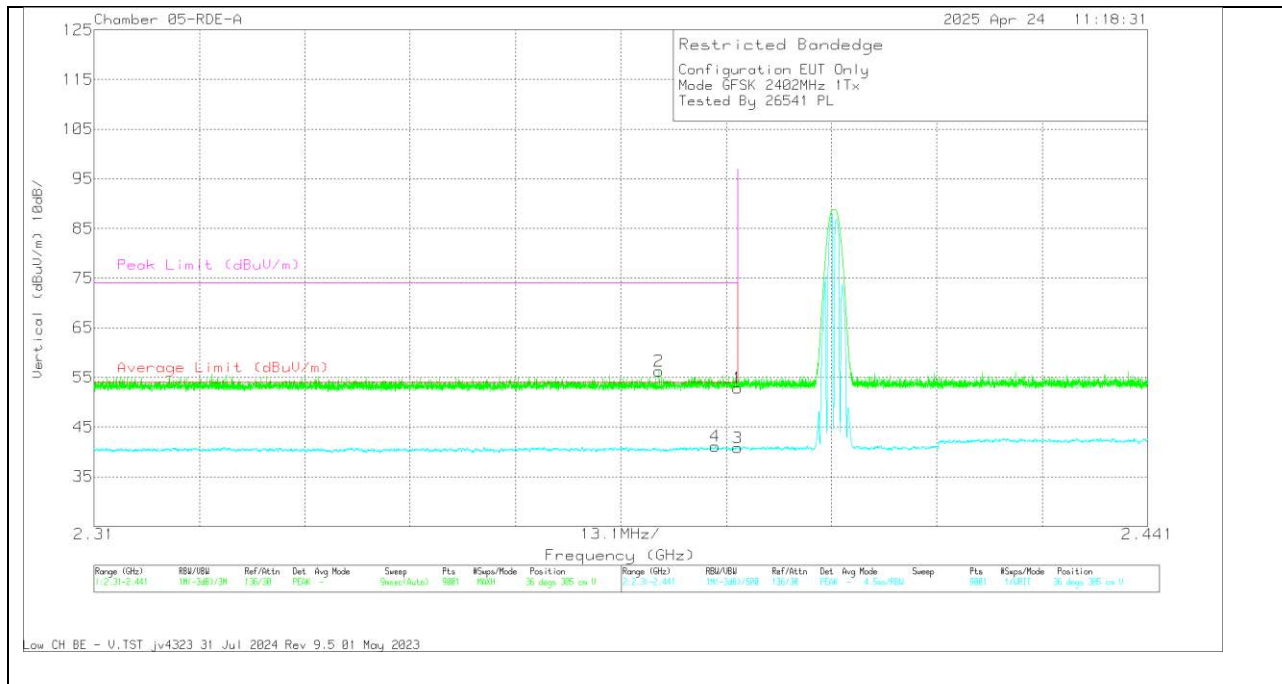
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 60.14                | Pk   | 32.1             | -39.5          | 52.74                      | -                      | -           | 74                  | -21.26      | 190            | 148         | H        |
| 2      | * 2.375531      | 63.29                | Pk   | 32               | -39.6          | 55.69                      | -                      | -           | 74                  | -18.31      | 190            | 148         | H        |
| 3      | * 2.39          | 48.1                 | VA1T | 32.1             | -39.5          | 40.7                       | 54                     | -13.3       | -                   | -           | 190            | 148         | H        |
| 4      | * 2.386856      | 48.5                 | VA1T | 32.1             | -39.4          | 41.2                       | 54                     | -12.8       | -                   | -           | 190            | 148         | 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

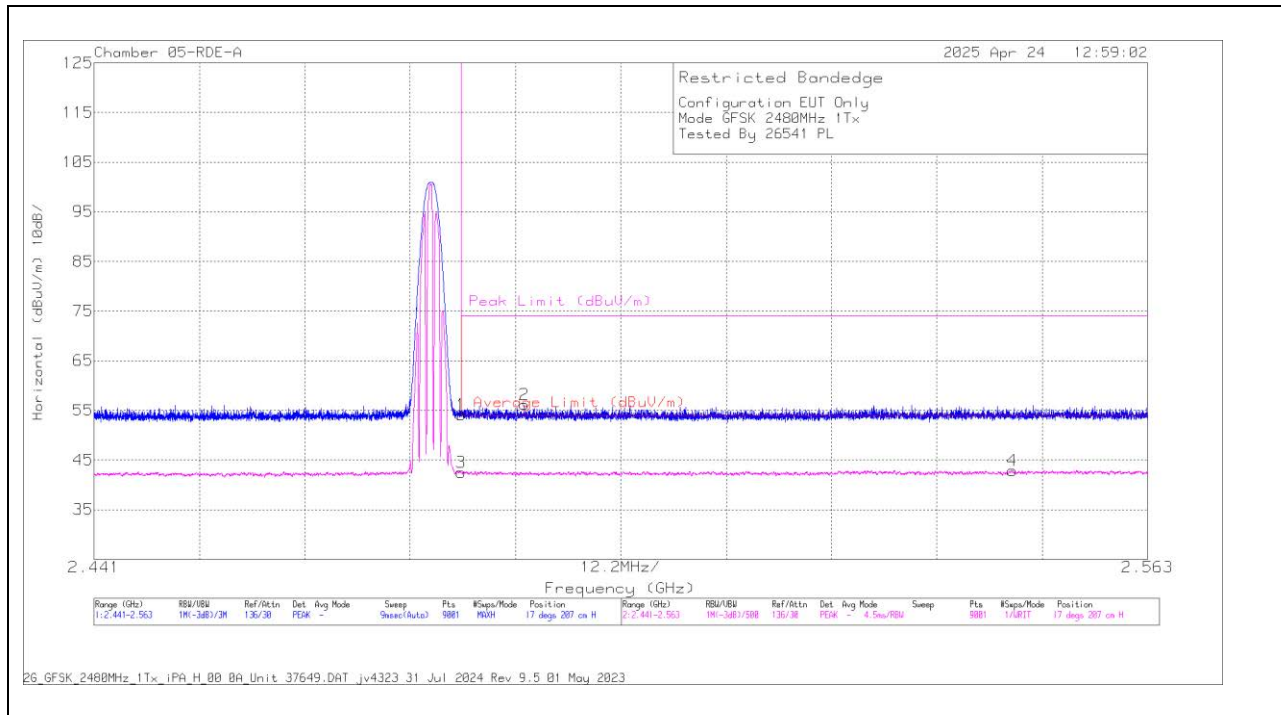


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 60.22                | Pk   | 32.1             | -39.5          | 52.82                      | -                      | -           | 74                  | -21.18      | 36             | 305         | V        |
| 2      | * 2.380218      | 63.86                | Pk   | 32               | -39.6          | 56.26                      | -                      | -           | 74                  | -17.74      | 36             | 305         | V        |
| 3      | * 2.39          | 48.21                | VA1T | 32.1             | -39.5          | 40.81                      | 54                     | -13.19      | -                   | -           | 36             | 305         | V        |
| 4      | * 2.387263      | 48.39                | VA1T | 32.1             | -39.4          | 41.09                      | 54                     | -12.91      | -                   | -           | 36             | 305         | 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**

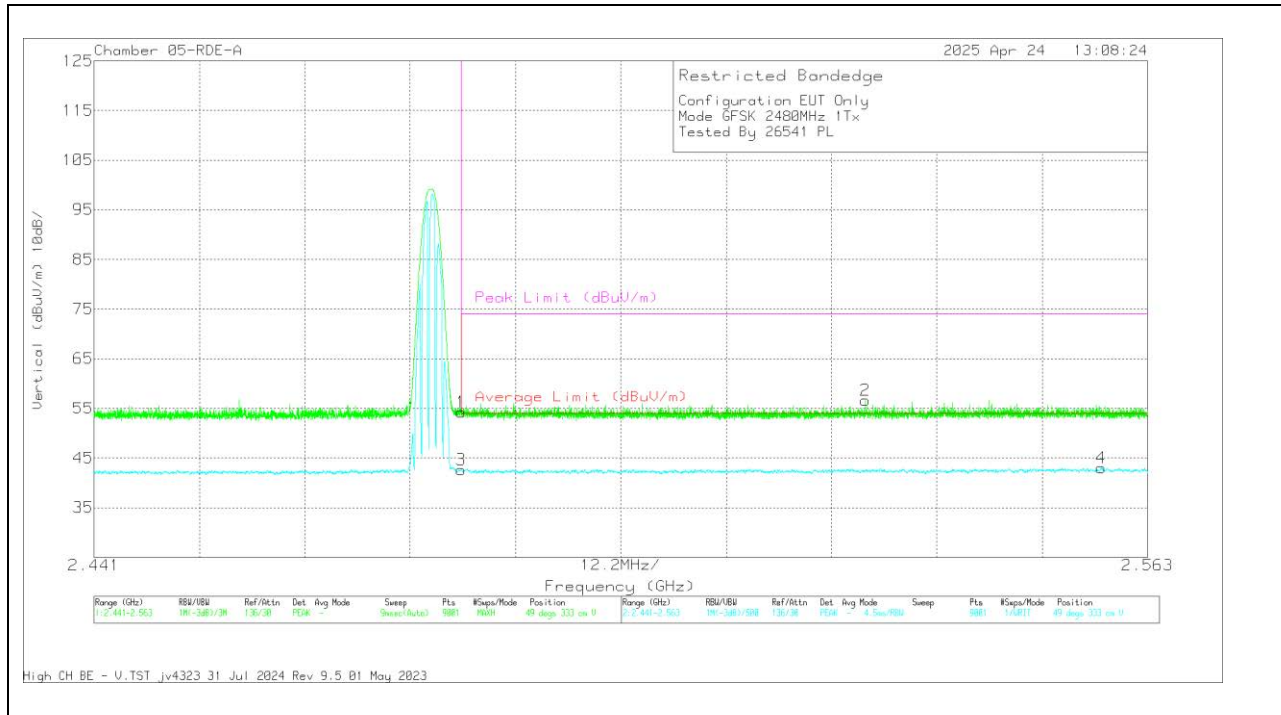
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.16                | Pk   | 32.4             | -39.4          | 54.16                      | -                      | -           | 74                  | -19.84      | 17             | 207         | H        |
| 2      | * 2.490818      | 63.21                | PK   | 32.4             | -39.42         | 56.19                      | -                      | -           | 74                  | -17.81      | 17             | 207         | H        |
| 3      | * 2.4835        | 49.53                | VA1T | 32.4             | -39.4          | 42.53                      | 54                     | -11.47      | -                   | -           | 17             | 207         | H        |
| 4      | 2.547374        | 49.75                | VA1T | 32.5             | -39.34         | 42.91                      | 54                     | -11.09      | -                   | -           | 17             | 207         | 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  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.29                | Pk   | 32.4             | -39.4          | 54.29                      | -                      | -           | 74                  | -19.71      | 49             | 333         | V        |
| 2      | 2.53032         | 63.42                | Pk   | 32.5             | -39.33         | 56.59                      | -                      | -           | 74                  | -17.41      | 49             | 333         | V        |
| 3      | * 2.4835        | 49.63                | VA1T | 32.4             | -39.4          | 42.63                      | 54                     | -11.37      | -                   | -           | 49             | 333         | V        |
| 4      | 2.557663        | 49.79                | VA1T | 32.5             | -39.3          | 42.99                      | 54                     | -11.01      | -                   | -           | 49             | 333         | V        |

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

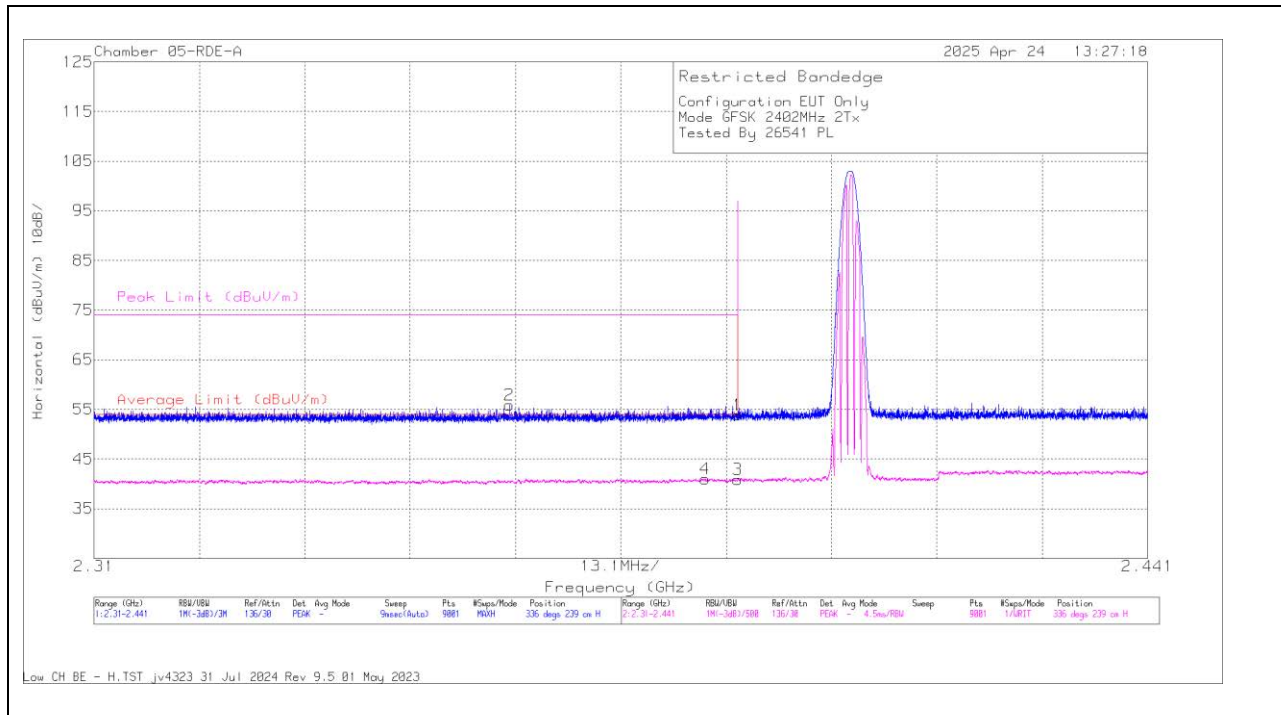
Pk - Peak detector

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

## 10.1.8. LOW POWER BASIC DATA RATE TXBF GFSK MODULATION

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



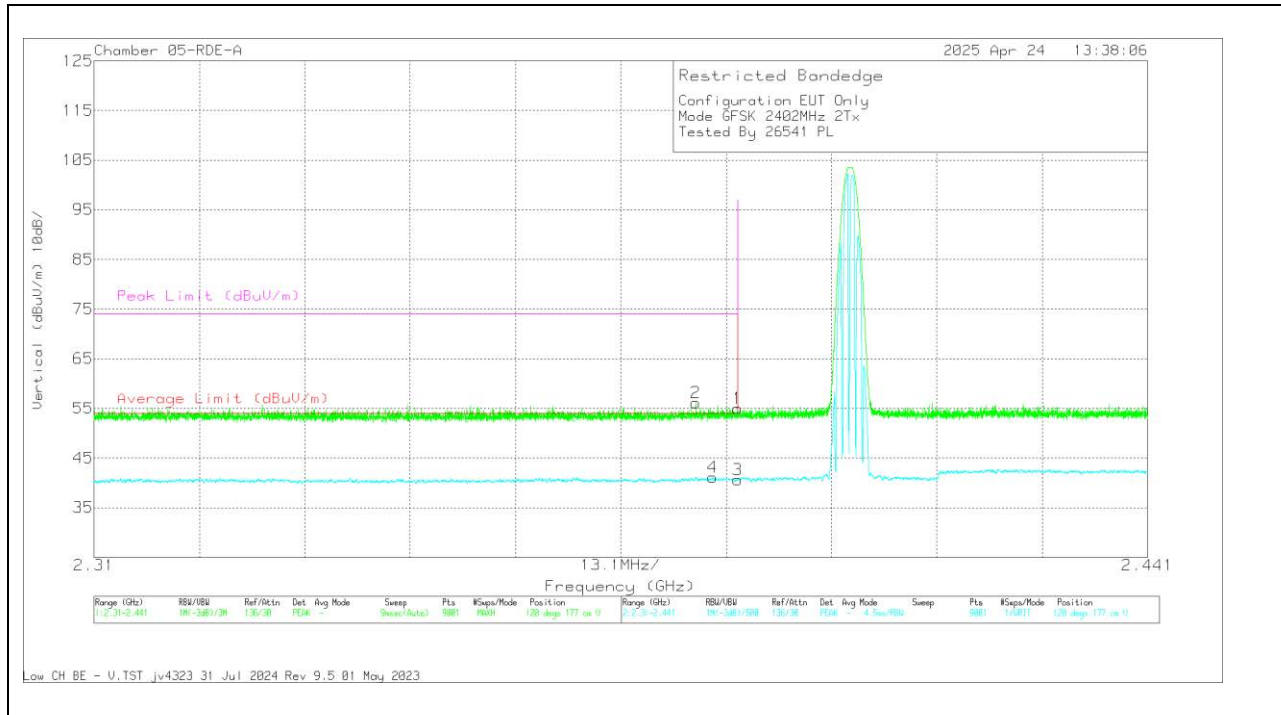
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Altitude (Degr) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|-----------------|-------------|----------|
| 1      | * 2.39          | 61.25                | PK   | 32.1             | -39.5          | 53.85                      | -                      | -           | 74                  | -20.15      | 336             | 239         | H        |
| 2      | * 2.361645      | 63.46                | PK   | 32               | -39.6          | 55.86                      | -                      | -           | 74                  | -18.14      | 336             | 239         | H        |
| 3      | * 2.39          | 48.26                | VA1T | 32.1             | -39.5          | 40.86                      | 54                     | -13.14      | -                   | -           | 336             | 239         | H        |
| 4      | * 2.386026      | 48.29                | VA1T | 32.1             | -39.4          | 40.99                      | 54                     | -13.01      | -                   | -           | 336             | 239         | 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

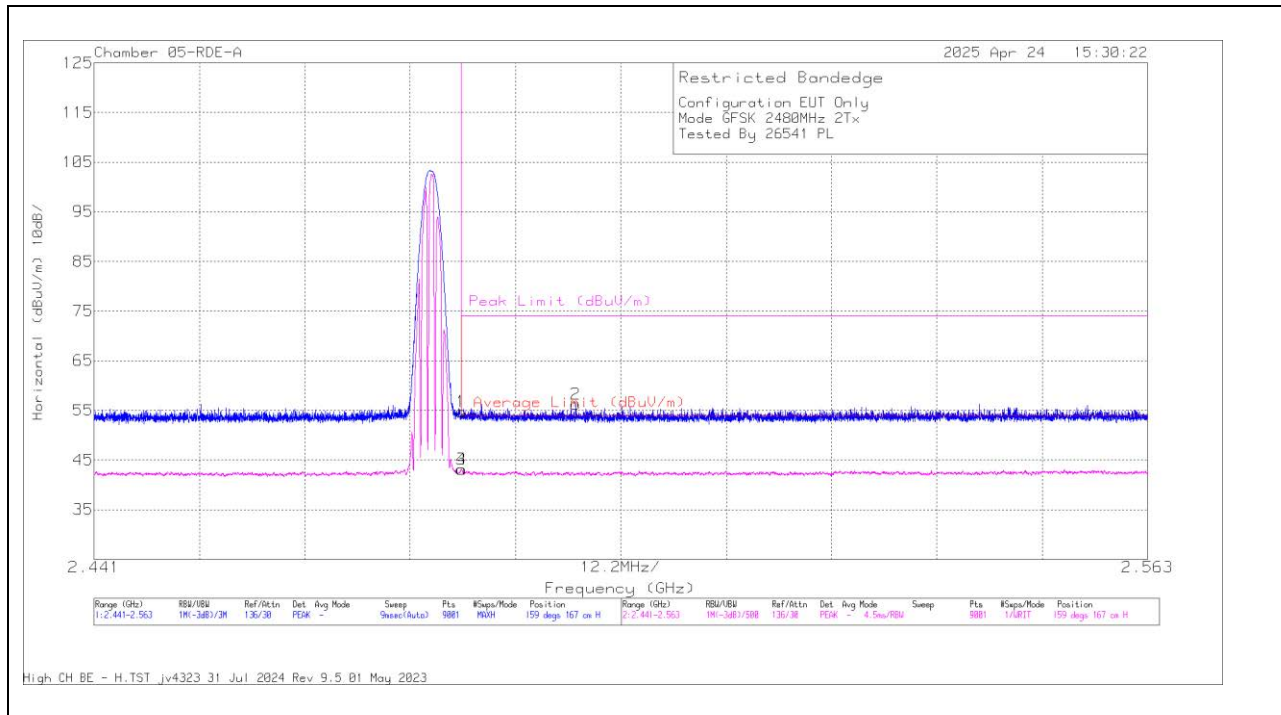


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 62.36                | Pk   | 32.1             | -39.5          | 54.96                      | -                      | -           | 74                  | -19.04      | 120            | 177         | V        |
| 2      | * 2.384818      | 63.41                | Pk   | 32.1             | -39.4          | 56.11                      | -                      | -           | 74                  | -17.89      | 120            | 177         | V        |
| 3      | * 2.39          | 48.04                | VA1T | 32.1             | -39.5          | 40.64                      | 54                     | -13.36      | -                   | -           | 120            | 177         | V        |
| 4      | * 2.386943      | 48.46                | VA1T | 32.1             | -39.4          | 41.16                      | 54                     | -12.84      | -                   | -           | 120            | 177         | 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**

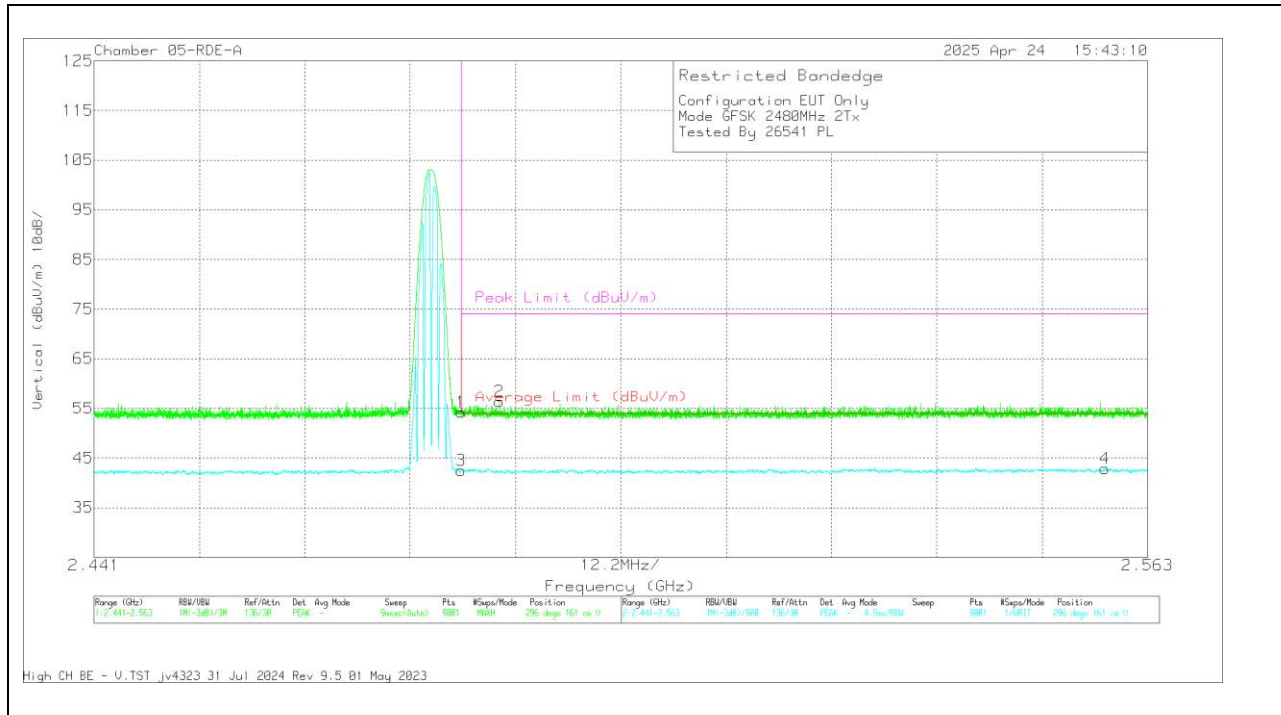
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.79                | Pk   | 32.4             | -39.4          | 54.79                      | -                      | -           | 74                  | -19.21      | 159            | 167         | H        |
| 2      | * 2.496756      | 63.39                | PK   | 32.4             | -39.48         | 56.31                      | -                      | -           | 74                  | -17.69      | 159            | 167         | H        |
| 3      | * 2.4835        | 50.13                | VA1T | 32.4             | -39.4          | 43.13                      | 54                     | -10.87      | -                   | -           | 159            | 167         | H        |
| 4      | * 2.483593      | 50.13                | VA1T | 32.4             | -39.4          | 43.13                      | 54                     | -10.87      | -                   | -           | 159            | 167         | 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  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.22                | Pk   | 32.4             | -39.4          | 54.22                      | -                      | -           | 74                  | -19.78      | 296            | 161         | V        |
| 2      | * 2.487917      | 63.4                 | Pk   | 32.4             | -39.4          | 56.4                       | -                      | -           | 74                  | -17.6       | 296            | 161         | V        |
| 3      | * 2.4835        | 49.48                | VA1T | 32.4             | -39.4          | 42.48                      | 54                     | -11.52      | -                   | -           | 296            | 161         | V        |
| 4      | 2.558097        | 49.75                | VA1T | 32.5             | -39.31         | 42.94                      | 54                     | -11.06      | -                   | -           | 296            | 161         | V        |

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

Pk - Peak detector

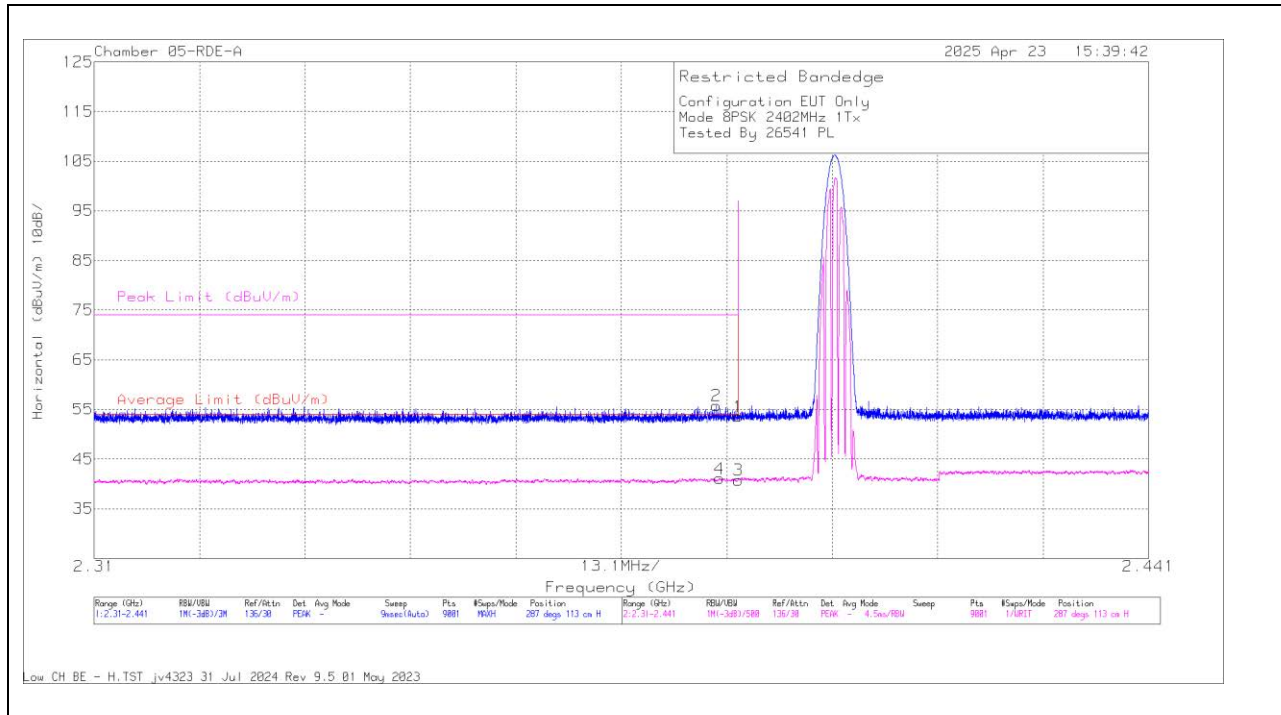
VA1T - FHSS: Linear Voltage Average  $V_B = 1/T_{on}$  where:  $T_{on}$  is transmit duration

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

### ANT 2

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



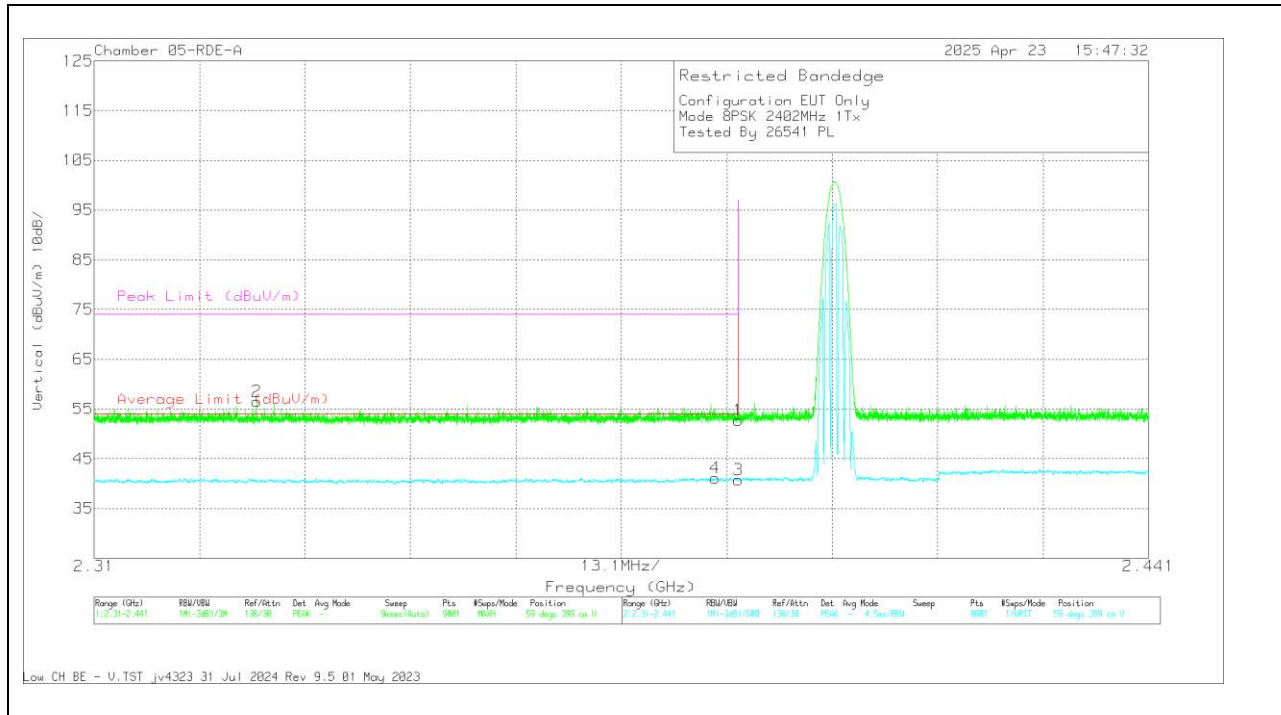
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 60.95                | Pk   | 32.1             | -39.5          | 53.55                      | -                      | -           | 74                  | -20.45      | 287            | 113         | H        |
| 2      | * 2.387307      | 63.07                | Pk   | 32.1             | -39.4          | 55.77                      | -                      | -           | 74                  | -18.23      | 287            | 113         | H        |
| 3      | * 2.39          | 48.16                | VA1T | 32.1             | -39.5          | 40.76                      | 54                     | -13.24      | -                   | -           | 287            | 113         | H        |
| 4      | * 2.387714      | 48.36                | VA1T | 32.1             | -39.4          | 41.06                      | 54                     | -12.94      | -                   | -           | 287            | 113         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT

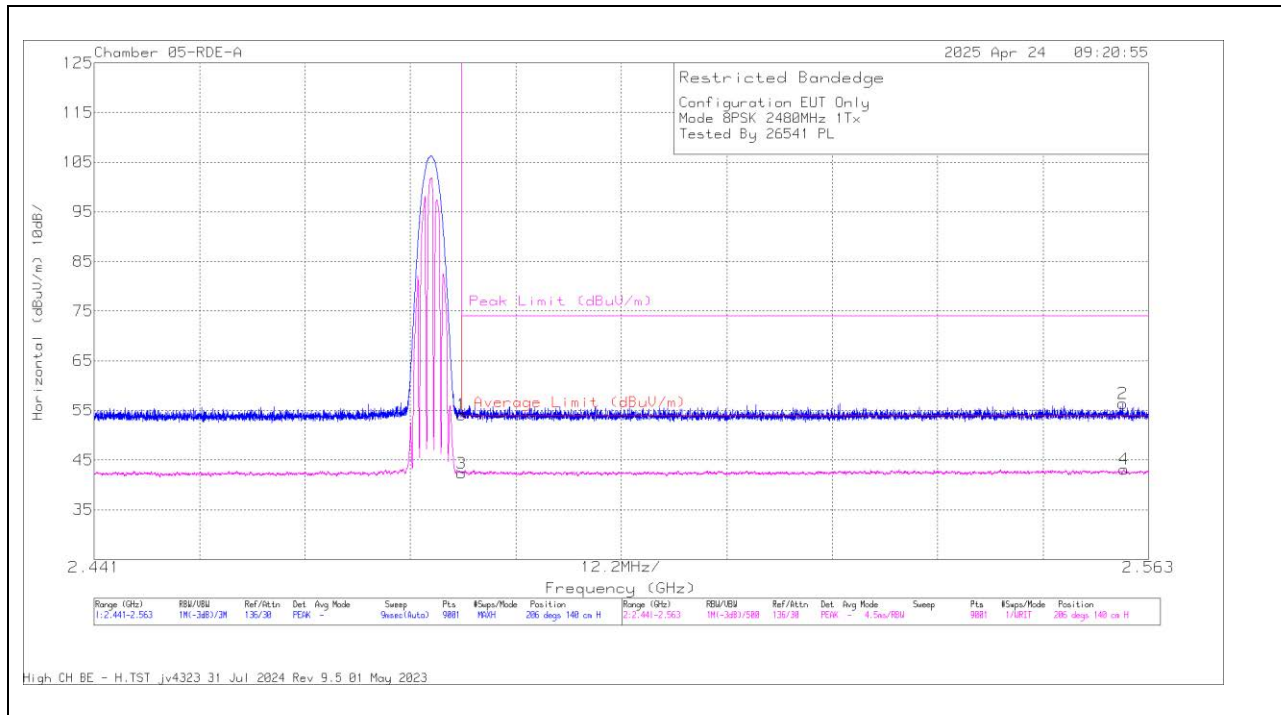


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 60.13                | Pk   | 32.1             | -39.5          | 52.73                      | -                      | -           | 74                  | -21.27      | 59             | 399         | V        |
| 2      | * 2.330218      | 64.16                | Pk   | 31.9             | -39.5          | 56.56                      | -                      | -           | 74                  | -17.44      | 59             | 399         | V        |
| 3      | * 2.39          | 48.19                | VA1T | 32.1             | -39.5          | 40.79                      | 54                     | -13.21      | -                   | -           | 59             | 399         | V        |
| 4      | * 2.38719       | 48.42                | VA1T | 32.1             | -39.4          | 41.12                      | 54                     | -12.88      | -                   | -           | 59             | 399         | 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**

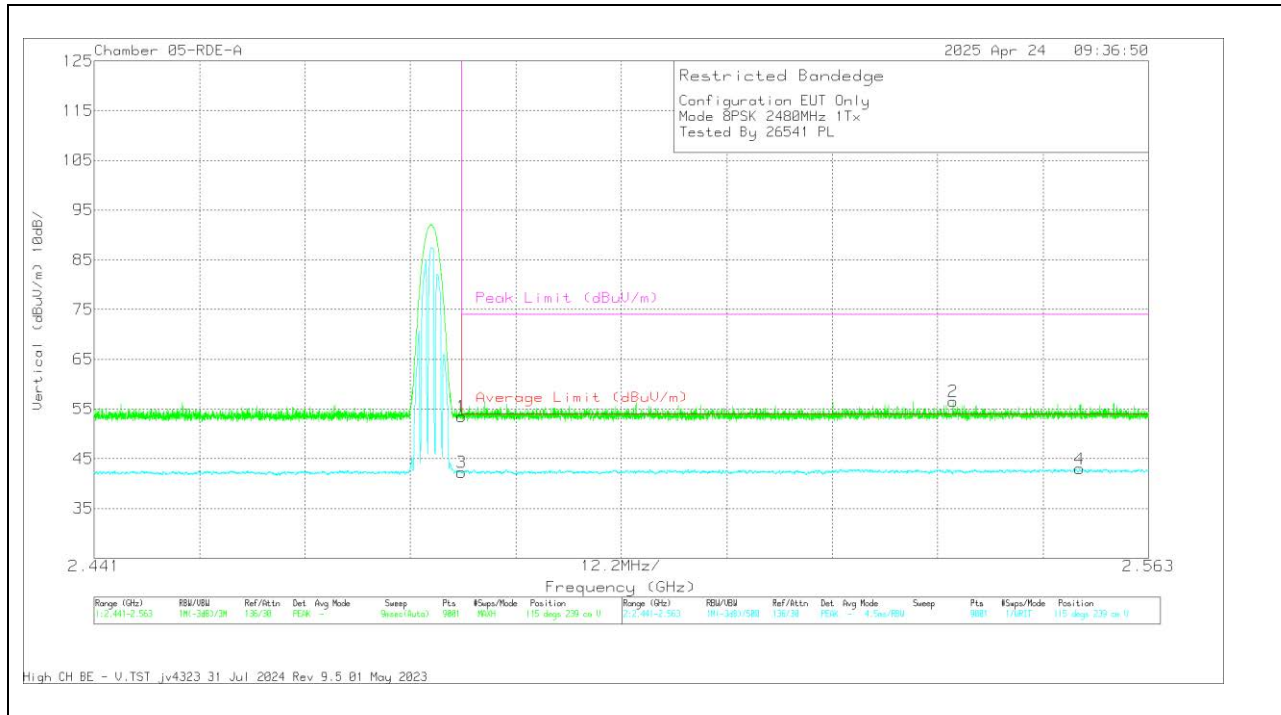
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.11                | Pk   | 32.4             | -39.4          | 54.11                      | -                      | -           | 74                  | -19.89      | 206            | 140         | H        |
| 2      | 2.55995         | 63.19                | Pk   | 32.5             | -39.3          | 56.39                      | -                      | -           | 74                  | -17.61      | 206            | 140         | H        |
| 3      | * 2.4835        | 49.33                | VA1T | 32.4             | -39.4          | 42.33                      | 54                     | -11.67      | -                   | -           | 206            | 140         | H        |
| 4      | 2.560184        | 49.92                | VA1T | 32.5             | -39.32         | 43.1                       | 54                     | -10.9       | -                   | -           | 206            | 140         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT

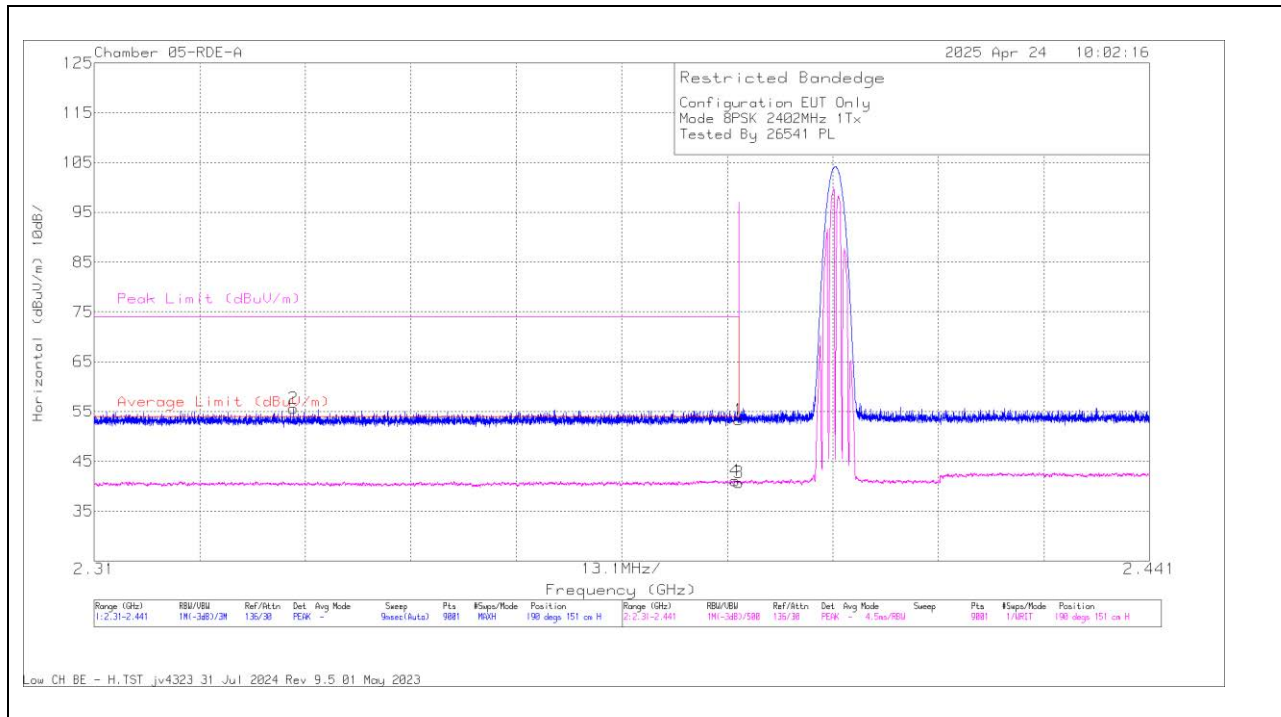


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 60.53                | Pk   | 32.4             | -39.4          | 53.53                      | -                      | -           | 74                  | -20.47      | 115            | 239         | V        |
| 2      | 2.540393        | 63.42                | Pk   | 32.5             | -39.36         | 56.56                      | -                      | -           | 74                  | -17.44      | 115            | 239         | V        |
| 3      | * 2.4835        | 49.28                | VA1T | 32.4             | -39.4          | 42.28                      | 54                     | -11.72      | -                   | -           | 115            | 239         | V        |
| 4      | 2.555033        | 49.75                | VA1T | 32.5             | -39.3          | 42.95                      | 54                     | -11.05      | -                   | -           | 115            | 239         | V        |

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

Pk - Peak detector

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

**ANT 1****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

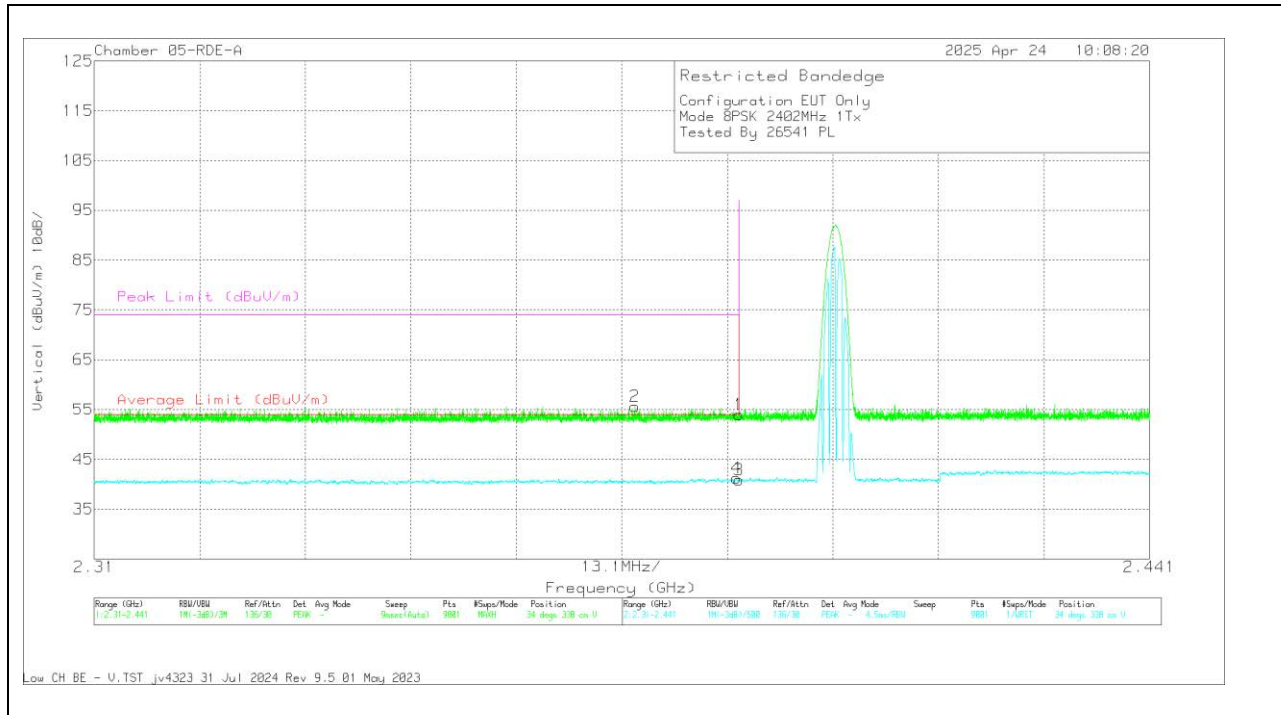
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 60.8                 | Pk   | 32.1             | -39.5          | 53.4                       | -                      | -           | 74                  | -20.6       | 190            | 151         | H        |
| 2      | * 2.334731      | 63.33                | Pk   | 31.9             | -39.6          | 55.63                      | -                      | -           | 74                  | -18.37      | 190            | 151         | H        |
| 3      | * 2.39          | 48.13                | VA1T | 32.1             | -39.5          | 40.73                      | 54                     | -13.27      | -                   | -           | 190            | 151         | H        |
| 4      | * 2.389534      | 48.57                | VA1T | 32.1             | -39.5          | 41.17                      | 54                     | -12.83      | -                   | -           | 190            | 151         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT

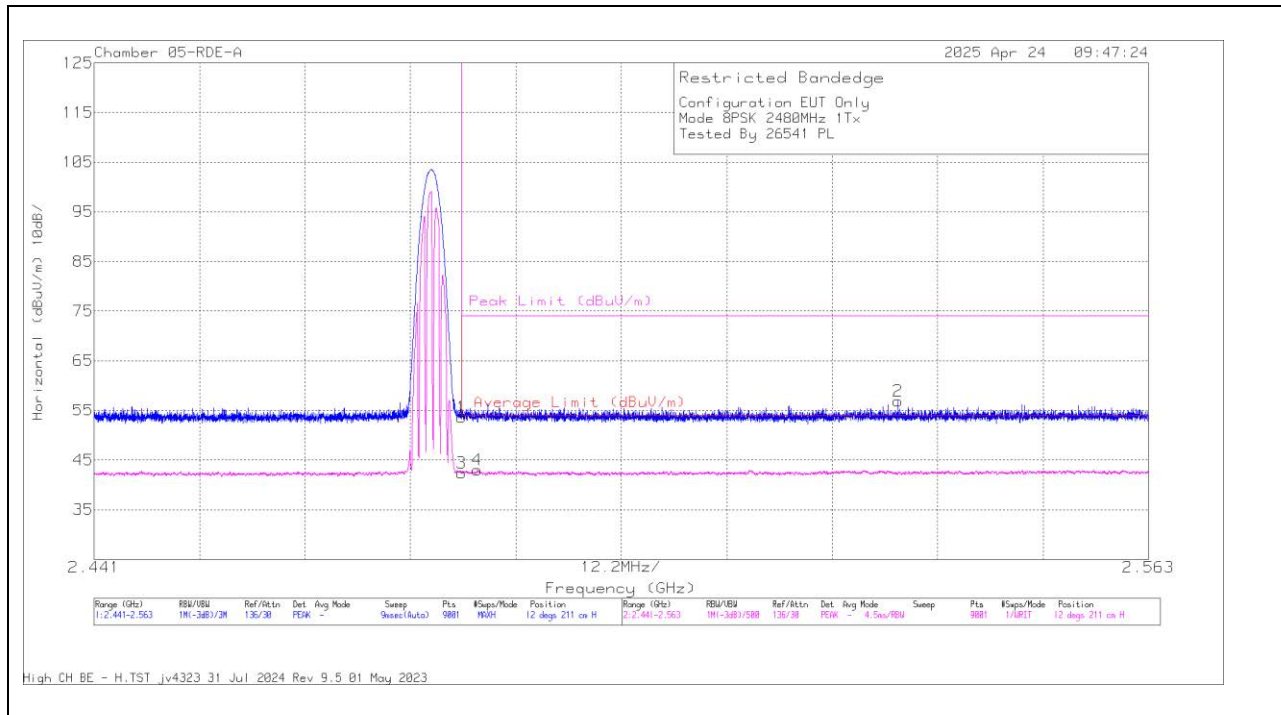


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 61.39                | Pk   | 32.1             | -39.5          | 53.99                      | -                      | -           | 74                  | -20.01      | 34             | 338         | V        |
| 2      | * 2.377089      | 63.22                | Pk   | 32               | -39.6          | 55.62                      | -                      | -           | 74                  | -18.38      | 34             | 338         | V        |
| 3      | * 2.39          | 48.25                | VA1T | 32.1             | -39.5          | 40.85                      | 54                     | -13.15      | -                   | -           | 34             | 338         | V        |
| 4      | * 2.389723      | 48.65                | VA1T | 32.1             | -39.5          | 41.25                      | 54                     | -12.75      | -                   | -           | 34             | 338         | V        |

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

Pk - Peak detector

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

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

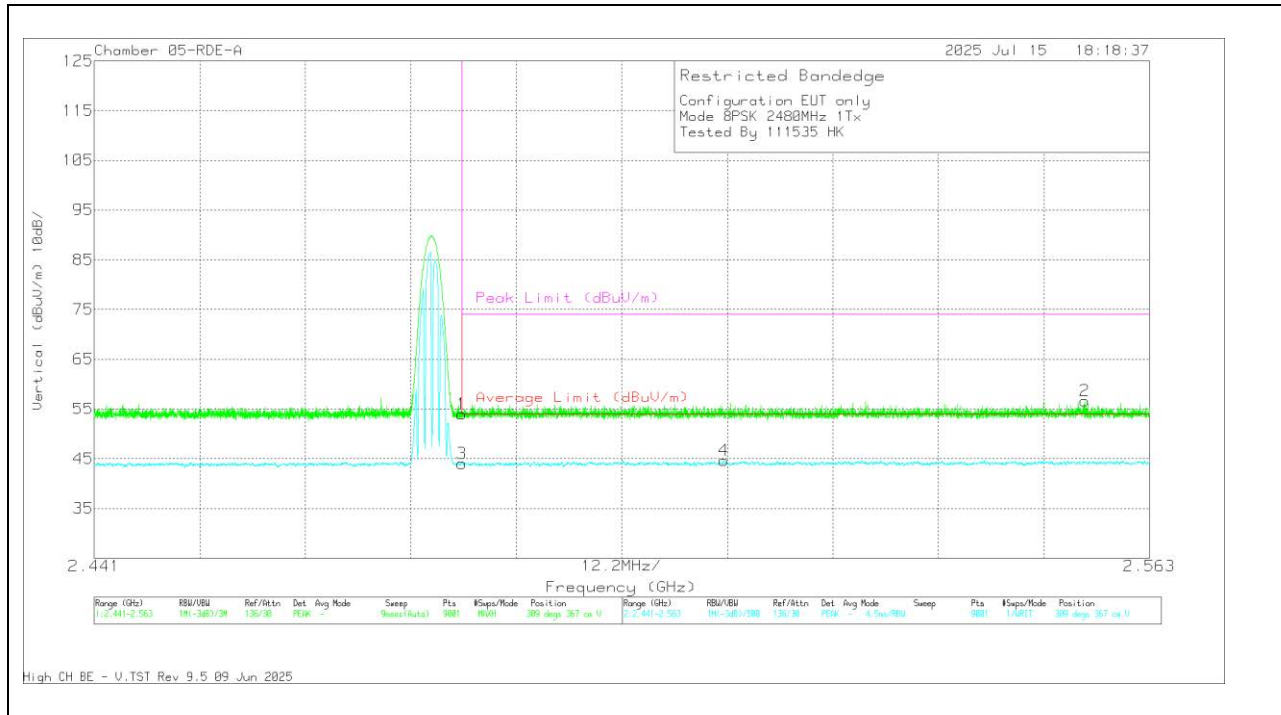
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 60.58                | PK   | 32.4             | -39.4          | 53.58                      | -                      | -           | 74                  | -20.42      | 12             | 211         | H        |
| 2      | 2.534008        | 63.75                | PK   | 32.5             | -39.4          | 56.85                      | -                      | -           | 74                  | -17.15      | 12             | 211         | H        |
| 3      | * 2.4835        | 49.39                | VA1T | 32.4             | -39.4          | 42.39                      | 54                     | -11.61      | -                   | -           | 12             | 211         | H        |
| 4      | * 2.485355      | 49.97                | VA1T | 32.4             | -39.4          | 42.97                      | 54                     | -11.03      | -                   | -           | 12             | 211         | H        |

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

PK - Peak detector

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

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226671 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 60.7                 | Pk   | 32.7              | -39.4          | 54                         | -                      | -           | 74                  | -20         | 309            | 367         | V        |
| 2      | 2.555548        | 63.13                | Pk   | 32.8              | -39.3          | 56.63                      | -                      | -           | 74                  | -17.37      | 309            | 367         | V        |
| 3      | * 2.4835        | 49.4                 | VA1T | 32.7              | -39.4          | 42.70                      | 54                     | -11.30      | -                   | -           | 309            | 367         | V        |
| 4      | 2.513782        | 49.88                | VA1T | 32.8              | -39.38         | 43.30                      | 54                     | -10.70      | -                   | -           | 309            | 367         | V        |

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

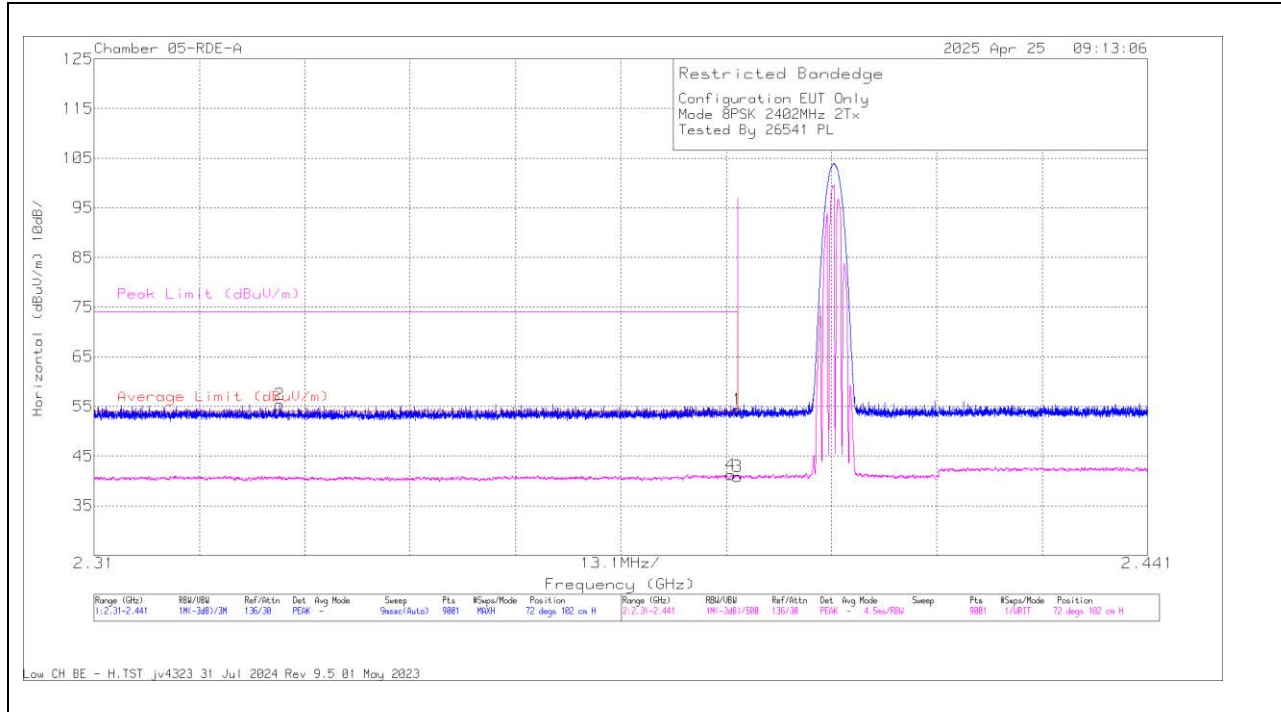
Pk - Peak detector

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

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

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



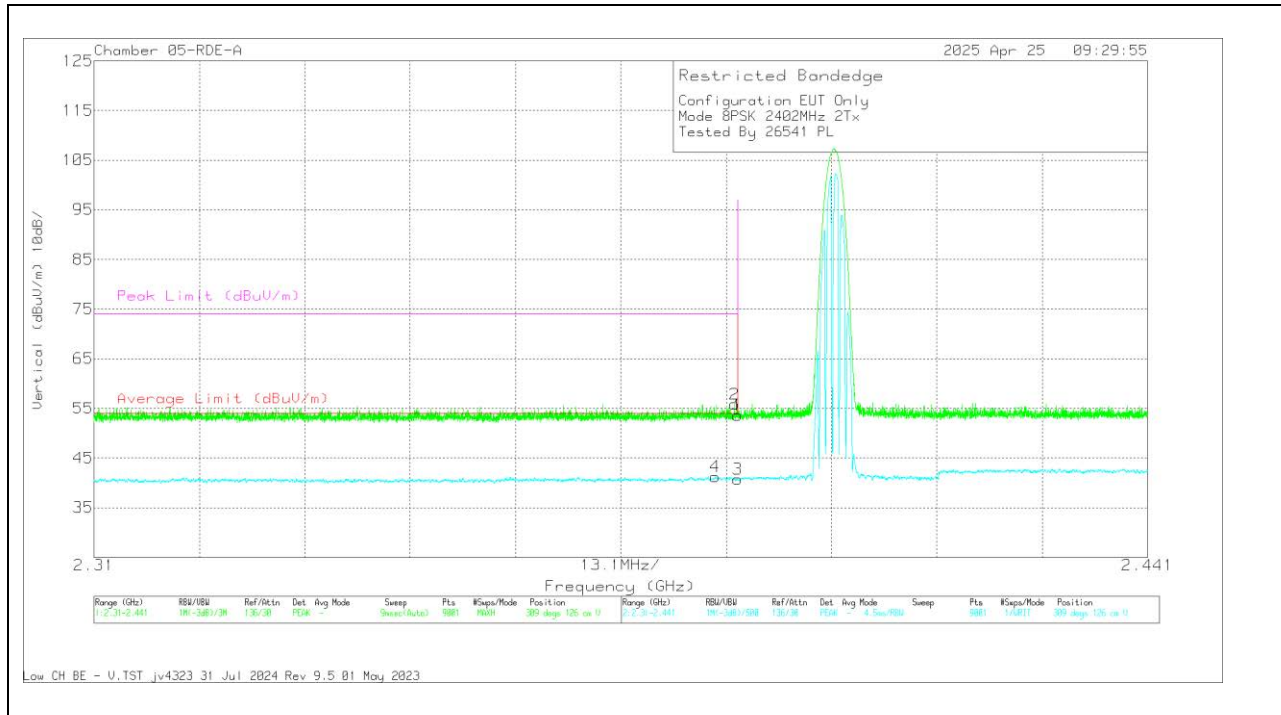
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Altitude (Degr) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|-----------------|-------------|----------|
| 1      | * 2.39          | 61.81                | PK   | 32.1             | -39.5          | 54.41                      | -                      | -           | 74                  | -19.59      | 72              | 102         | H        |
| 2      | * 2.333115      | 62.98                | PK   | 31.9             | -39.51         | 55.37                      | -                      | -           | 74                  | -18.63      | 72              | 102         | H        |
| 3      | * 2.39          | 48.24                | VA1T | 32.1             | -39.5          | 40.84                      | 54                     | -13.16      | -                   | -           | 72              | 102         | H        |
| 4      | * 2.389214      | 48.69                | VA1T | 32.1             | -39.5          | 41.29                      | 54                     | -12.71      | -                   | -           | 72              | 102         | H        |

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

PK - Peak detector

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

## VERTICAL RESULT

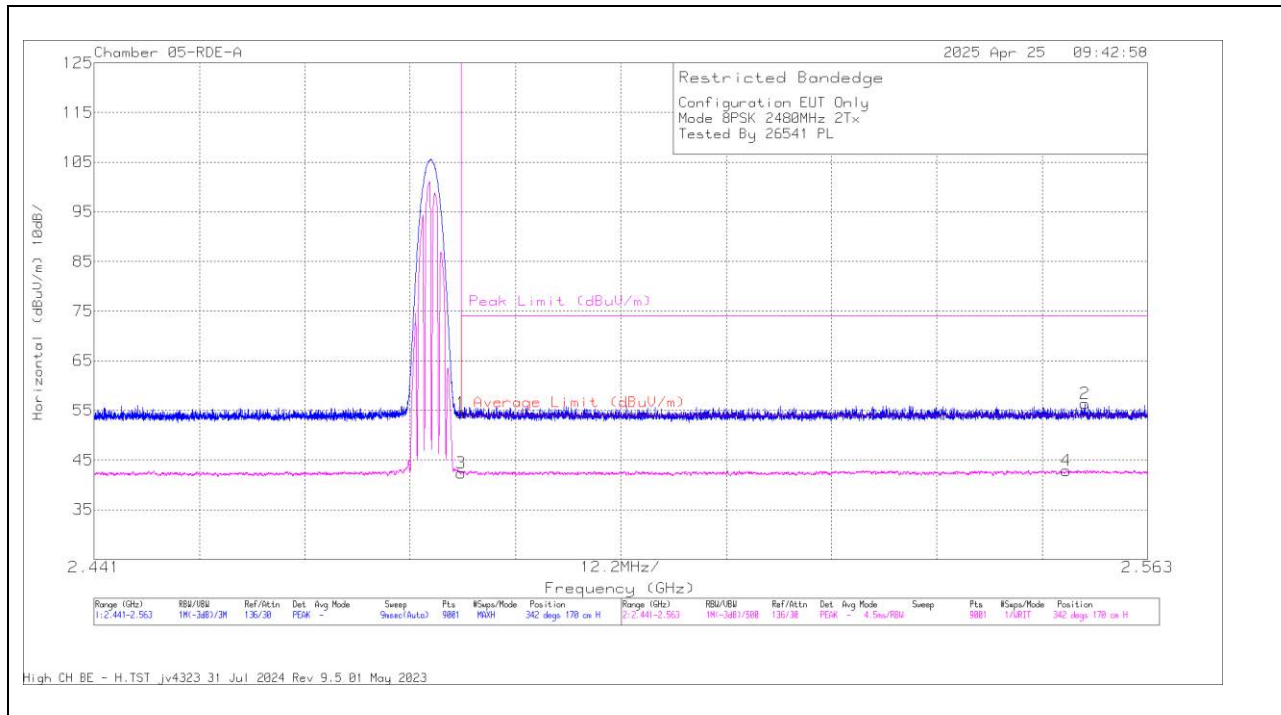


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.39          | 61.03                | Pk   | 32.1             | -39.5          | 53.63                      | -                      | -           | 74                  | -20.37      | 309            | 126         | V        |
| 2      | * 2.389636      | 63.22                | Pk   | 32.1             | -39.5          | 55.82                      | -                      | -           | 74                  | -18.18      | 309            | 126         | V        |
| 3      | * 2.39          | 48.1                 | VA1T | 32.1             | -39.5          | 40.7                       | 54                     | -13.3       | -                   | -           | 309            | 126         | V        |
| 4      | * 2.387263      | 48.54                | VA1T | 32.1             | -39.4          | 41.24                      | 54                     | -12.76      | -                   | -           | 309            | 126         | 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**

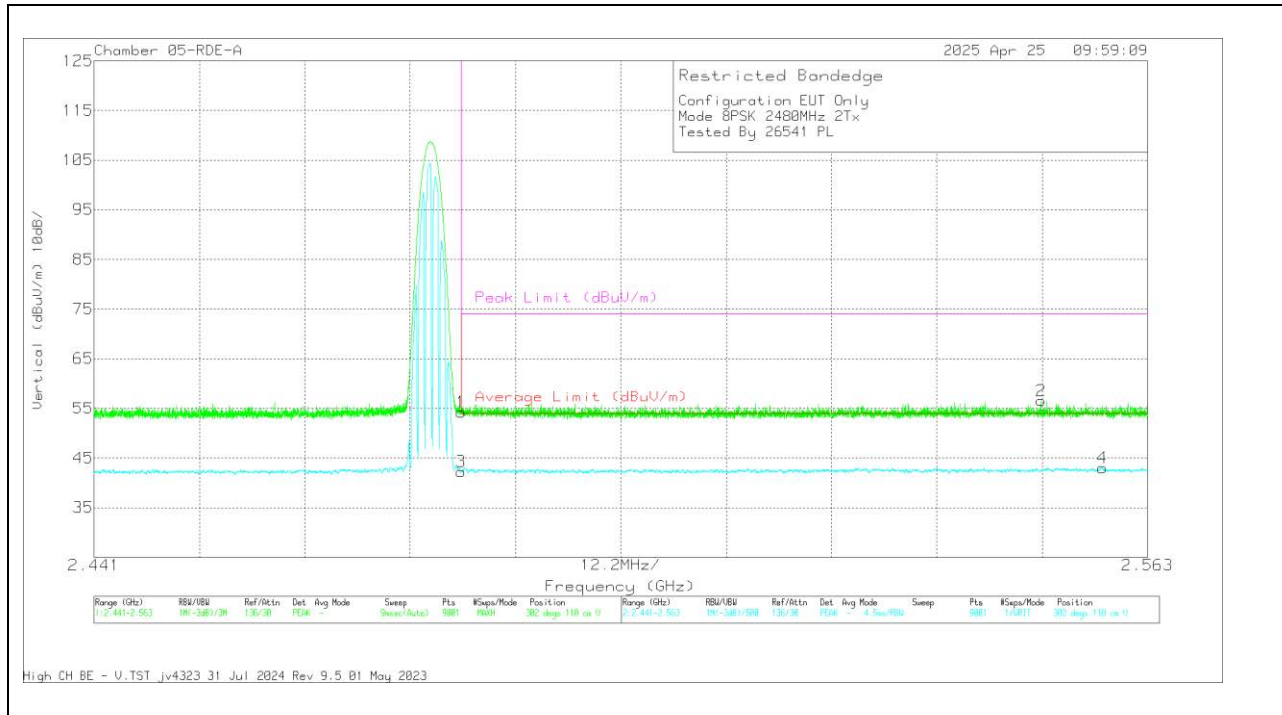
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.53                | Pk   | 32.4             | -39.4          | 54.53                      | -                      | -           | 74                  | -19.47      | 342            | 170         | H        |
| 2      | 2.555724        | 63.14                | Pk   | 32.5             | -39.3          | 56.34                      | -                      | -           | 74                  | -17.66      | 342            | 170         | H        |
| 3      | * 2.4835        | 49.37                | VA1T | 32.4             | -39.4          | 42.37                      | 54                     | -11.63      | -                   | -           | 342            | 170         | H        |
| 4      | 2.553583        | 49.73                | VA1T | 32.5             | -39.3          | 42.93                      | 54                     | -11.07      | -                   | -           | 342            | 170         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 80403 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 2.4835        | 61.22                | Pk   | 32.4             | -39.4          | 54.22                      | -                      | -           | 74                  | -19.78      | 302            | 110         | V        |
| 2      | 2.550654        | 63.37                | Pk   | 32.5             | -39.3          | 56.57                      | -                      | -           | 74                  | -17.43      | 302            | 110         | V        |
| 3      | * 2.4835        | 49.21                | VA1T | 32.4             | -39.4          | 42.21                      | 54                     | -11.79      | -                   | -           | 302            | 110         | V        |
| 4      | 2.557785        | 49.86                | VA1T | 32.5             | -39.3          | 43.06                      | 54                     | -10.94      | -                   | -           | 302            | 110         | V        |

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

Pk - Peak detector

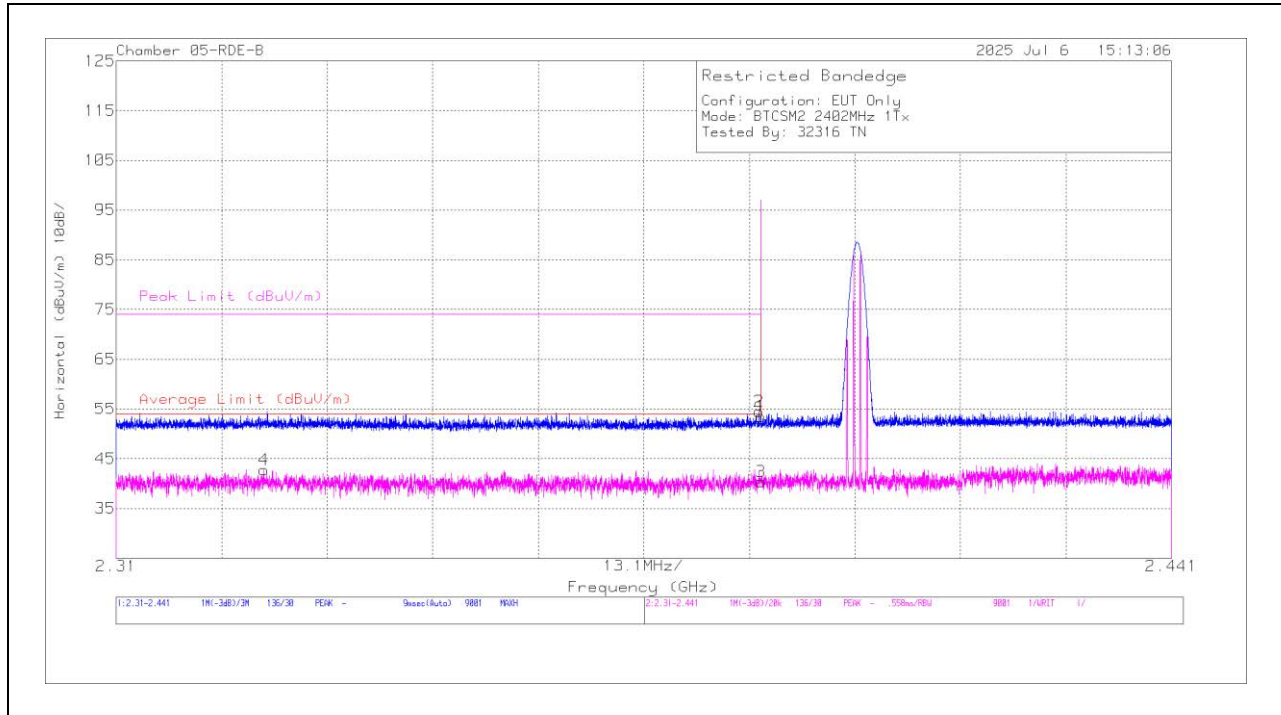
VA1T - FHSS: Linear Voltage Average  $V_B = 1/T_{on}$  where:  $T_{on}$  is transmit duration

## 10.1.11. LOW POWER ENHANCED DATA RATE BTCSM2 MODULATION

### ANT 2

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 4      | *2.328355       | 51.6                 | VA1T | 31.8              | -40.59         | 42.81                      | 54                     | -11.19      | -                   | -           | 287            | 178         | H        |
| 2      | *2.389825       | 62.89                | Pk   | 32                | -40.39         | 54.5                       | -                      | -           | 74                  | -19.5       | 287            | 178         | H        |
| 1      | *2.39           | 61.85                | Pk   | 32                | -40.39         | 53.46                      | -                      | -           | 74                  | -20.54      | 287            | 178         | H        |
| 3      | *2.39           | 48.75                | VA1T | 32                | -40.39         | 40.36                      | 54                     | -13.64      | -                   | -           | 287            | 178         | H        |

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

Pk - Peak detector

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

Chamber 05-RDE-B

2025 Jul 6 15:23:56

Restricted Bandedge  
Configuration: EUT Only  
Mode: BTCSM2 2402MHz 11x  
Tested By: 32316 TN

Vertical (dBuV/m) 10dB/

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

Frequency (GHz)

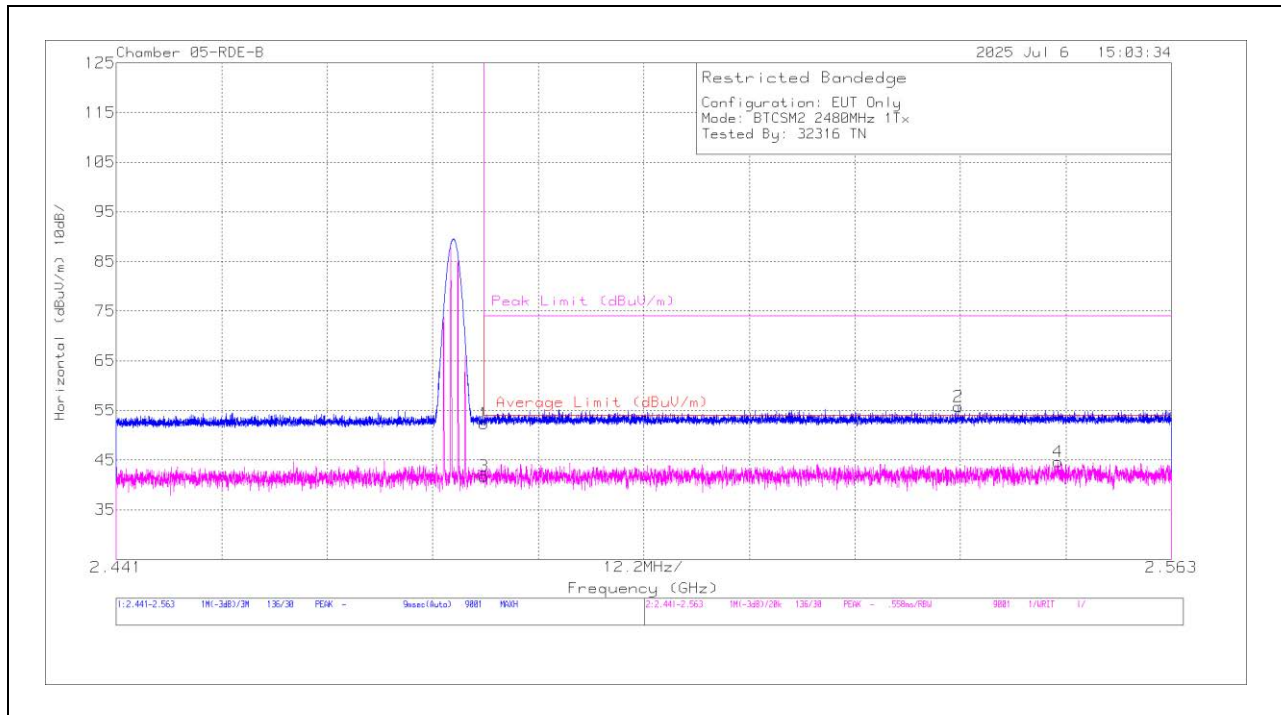
1.231 1.673 2.441

13.1MHz/

1.231-2.441 1M-2402MHz 130/30 PEAK - GreenAuto 5000 1000 50.31-2.441 1M-2402MHz 130/30 PEAK - 5000Hz 1000 1/10/1 17

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 2      | *2.386506       | 62.78                | Pk   | 32                | -40.39         | 54.39                      | -                      | -           | 74                  | -19.61      | 105            | 377         | V        |
| 4      | *2.387831       | 51.76                | VA1T | 32                | -40.38         | 43.38                      | 54                     | -10.62      | -                   | -           | 105            | 377         | V        |
| 1      | *2.39           | 60.03                | Pk   | 32                | -40.39         | 51.64                      | -                      | -           | 74                  | -22.36      | 105            | 377         | V        |
| 3      | *2.39           | 47.75                | VA1T | 32                | -40.39         | 39.36                      | 54                     | -14.64      | -                   | -           | 105            | 377         | V        |

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

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

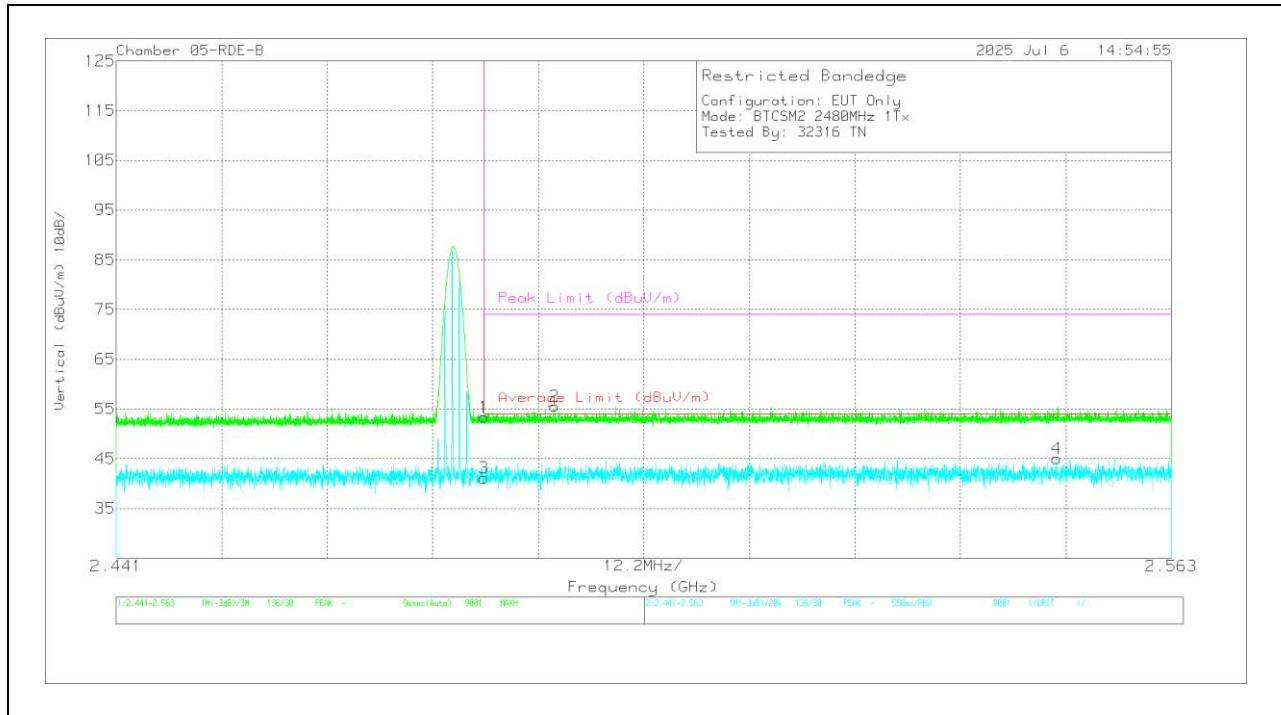
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 60.57                | Pk   | 32.2              | -40.39         | 52.38                      | -                      | -           | 74                  | -21.62      | 286            | 154         | H        |
| 3      | *2.4835         | 49.94                | VA1T | 32.2              | -40.39         | 41.75                      | 54                     | -12.25      | -                   | -           | 286            | 154         | H        |
| 2      | *2.538346       | 63.66                | Pk   | 32.3              | -40.22         | 55.74                      | -                      | -           | 74                  | -18.26      | 286            | 154         | H        |
| 4      | *2.549855       | 52.46                | VA1T | 32.3              | -40.11         | 44.65                      | 54                     | -9.35       | -                   | -           | 286            | 154         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT

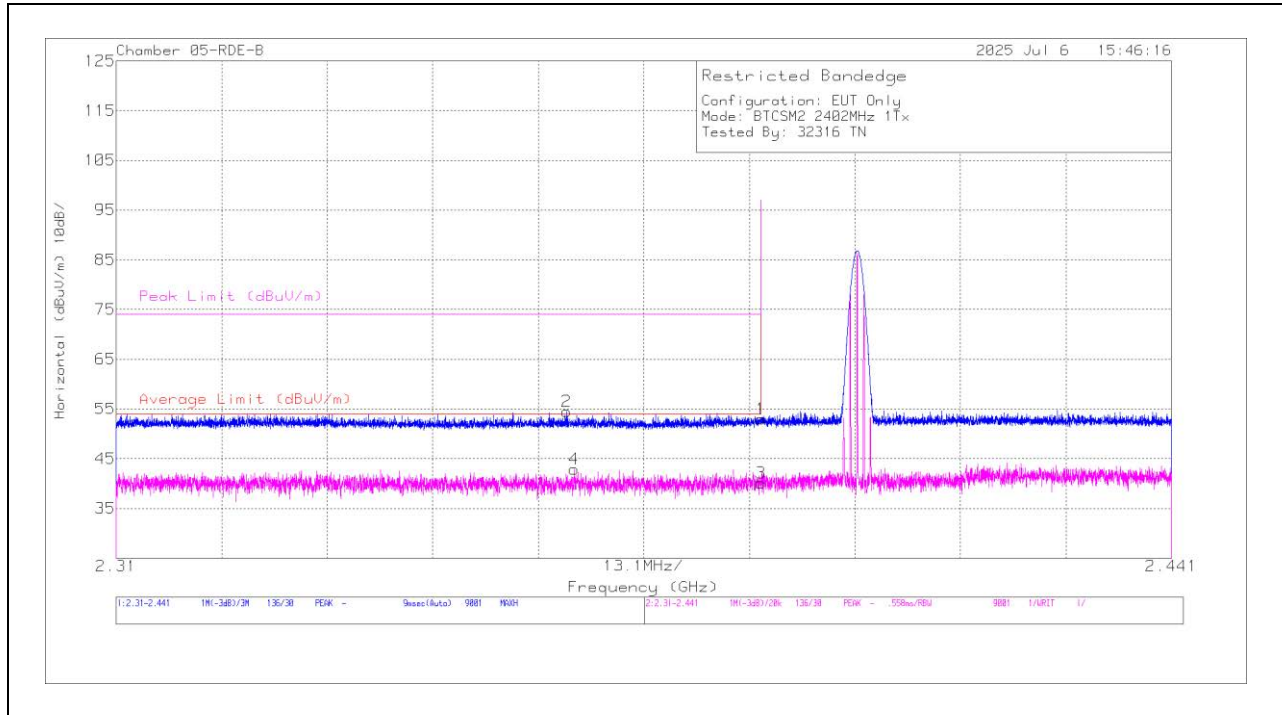


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 61.58                | Pk   | 32.2              | -40.39         | 53.39                      | -                      | -           | 74                  | -20.61      | 320            | 374         | V        |
| 3      | *2.4835         | 49.33                | VA1T | 32.2              | -40.39         | 41.14                      | 54                     | -12.86      | -                   | -           | 320            | 374         | V        |
| 2      | *2.491699       | 63.63                | Pk   | 32.3              | -40.37         | 55.56                      | -                      | -           | 74                  | -18.44      | 320            | 374         | V        |
| 4      | *2.549719       | 52.82                | VA1T | 32.3              | -40.11         | 45.01                      | 54                     | -8.99       | -                   | -           | 320            | 374         | 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

**ANT 1****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 2      | *2.365953       | 63.09                | Pk   | 31.9              | -40.5          | 54.49                      | -                      | -           | 74                  | -19.51      | 276            | 152         | H        |
| 4      | *2.366841       | 51.49                | VA1T | 31.9              | -40.53         | 42.86                      | 54                     | -11.14      | -                   | -           | 276            | 152         | H        |
| 1      | *2.39           | 61.39                | Pk   | 32                | -40.39         | 53                         | -                      | -           | 74                  | -21         | 276            | 152         | H        |
| 3      | *2.39           | 48.55                | VA1T | 32                | -40.39         | 40.16                      | 54                     | -13.84      | -                   | -           | 276            | 152         | H        |

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

Pk - Peak detector

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

Chamber 05-RDE-B

2025 Jul 6 15:36:20

Restricted Bandedge  
Configuration: EUT Only  
Mode: BTCSM2 2402MHz 1Tx  
Tested By: 32316 TN

Vertical (dBuV/m) 10dB/

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

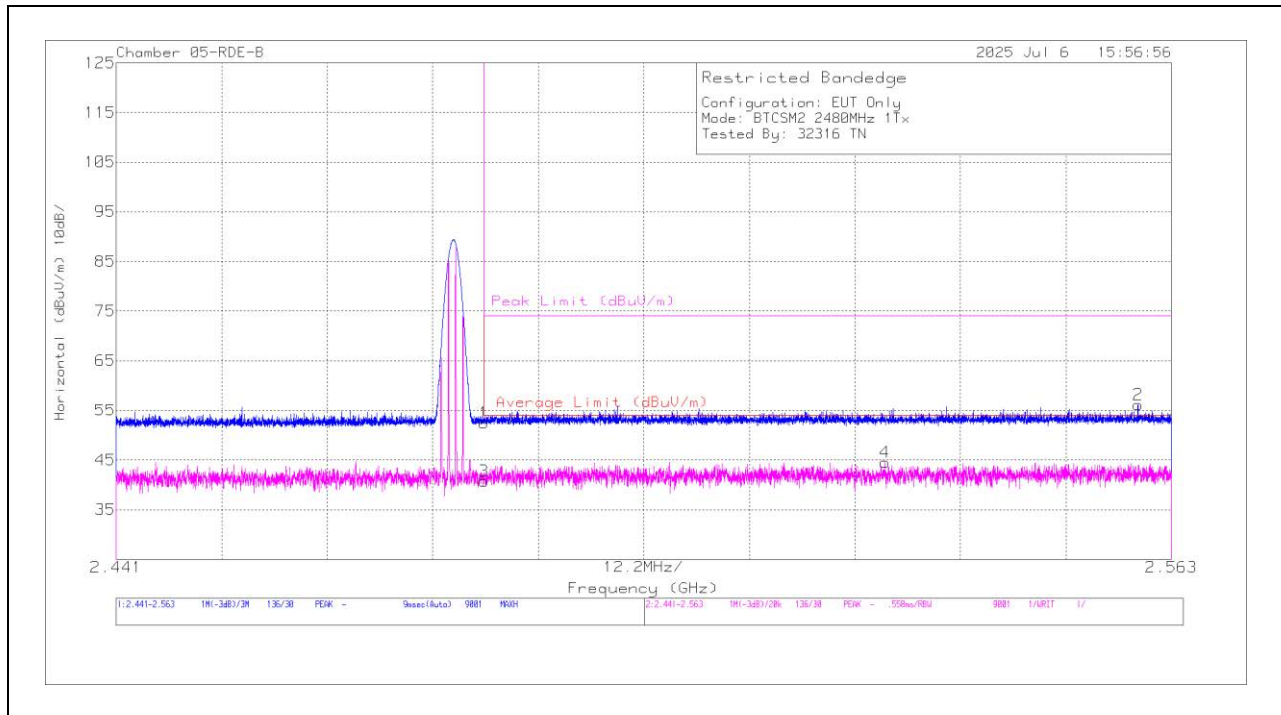
Frequency (GHz)

13.1MHz/

1.2.31-2.441 1M-2402MHz 136.30 Peak - GreenAuto 5000 1000 50.31-2.441 1M-2402MHz 136.30 Peak - 5000Hz 1000 1/10/17

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 2      | *2.327453       | 63.08                | Pk   | 31.8              | -40.59         | 54.29                      | -                      | -           | 74                  | -19.71      | 319            | 352         | V        |
| 4      | *2.388573       | 51.35                | VA1T | 32                | -40.38         | 42.97                      | 54                     | -11.03      | -                   | -           | 319            | 352         | V        |
| 1      | *2.39           | 60.15                | Pk   | 32                | -40.39         | 51.76                      | -                      | -           | 74                  | -22.24      | 319            | 352         | V        |
| 3      | *2.39           | 49.39                | VA1T | 32                | -40.39         | 41                         | 54                     | -13         | -                   | -           | 319            | 352         | V        |

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

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

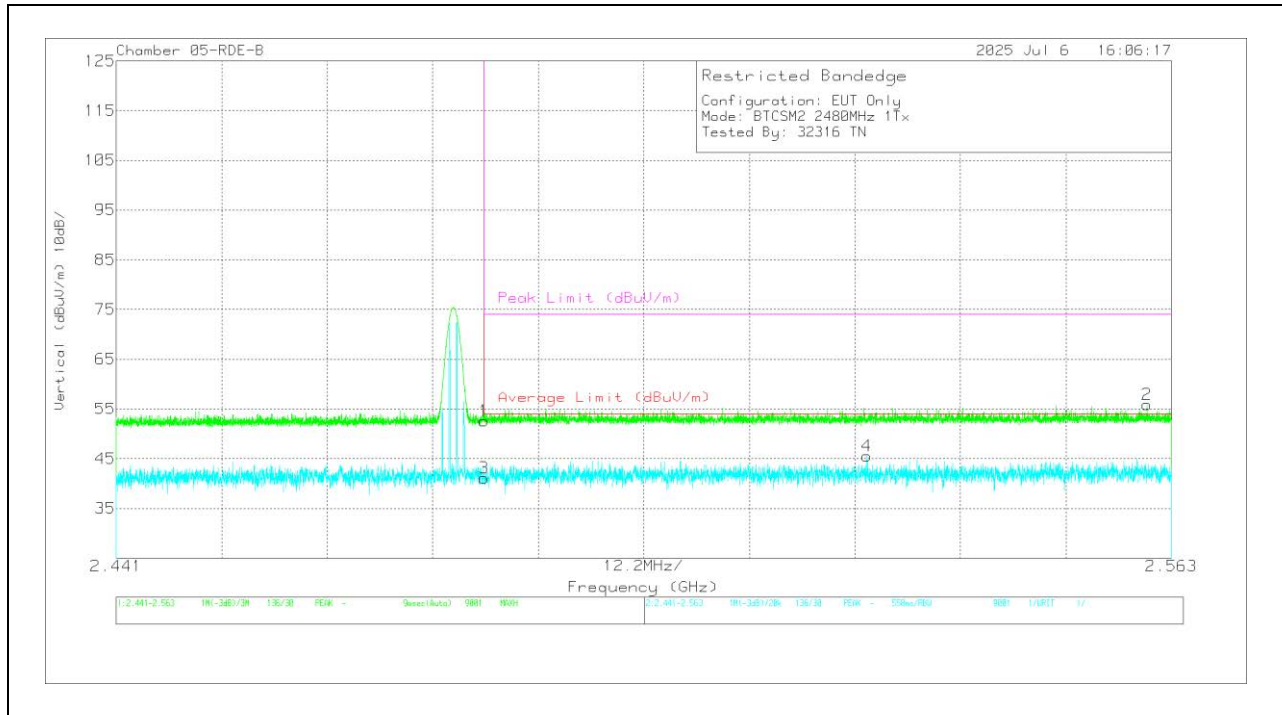
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 60.63                | Pk   | 32.2              | -40.39         | 52.44                      | -                      | -           | 74                  | -21.56      | 103            | 116         | H        |
| 3      | 82.4835         | 48.96                | VA1T | 32.2              | -40.39         | 40.77                      | 54                     | -13.23      | -                   | -           | 103            | 116         | H        |
| 4      | *2.529873       | 52.5                 | VA1T | 32.3              | -40.24         | 44.56                      | 54                     | -9.44       | -                   | -           | 103            | 116         | H        |
| 2      | *2.559127       | 63.88                | Pk   | 32.3              | -40.09         | 56.09                      | -                      | -           | 74                  | -17.91      | 103            | 116         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 60.76                | Pk   | 32.2              | -40.39         | 52.57                      | -                      | -           | 74                  | -21.43      | 29             | 155         | V        |
| 3      | *2.4835         | 49.3                 | VA1T | 32.2              | -40.39         | 41.11                      | 54                     | -12.89      | -                   | -           | 29             | 155         | V        |
| 4      | *2.527799       | 53.5                 | VA1T | 32.3              | -40.24         | 45.56                      | 54                     | -8.44       | -                   | -           | 29             | 155         | V        |
| 2      | *2.560184       | 63.67                | Pk   | 32.3              | -40.1          | 55.87                      | -                      | -           | 74                  | -18.13      | 29             | 155         | V        |

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

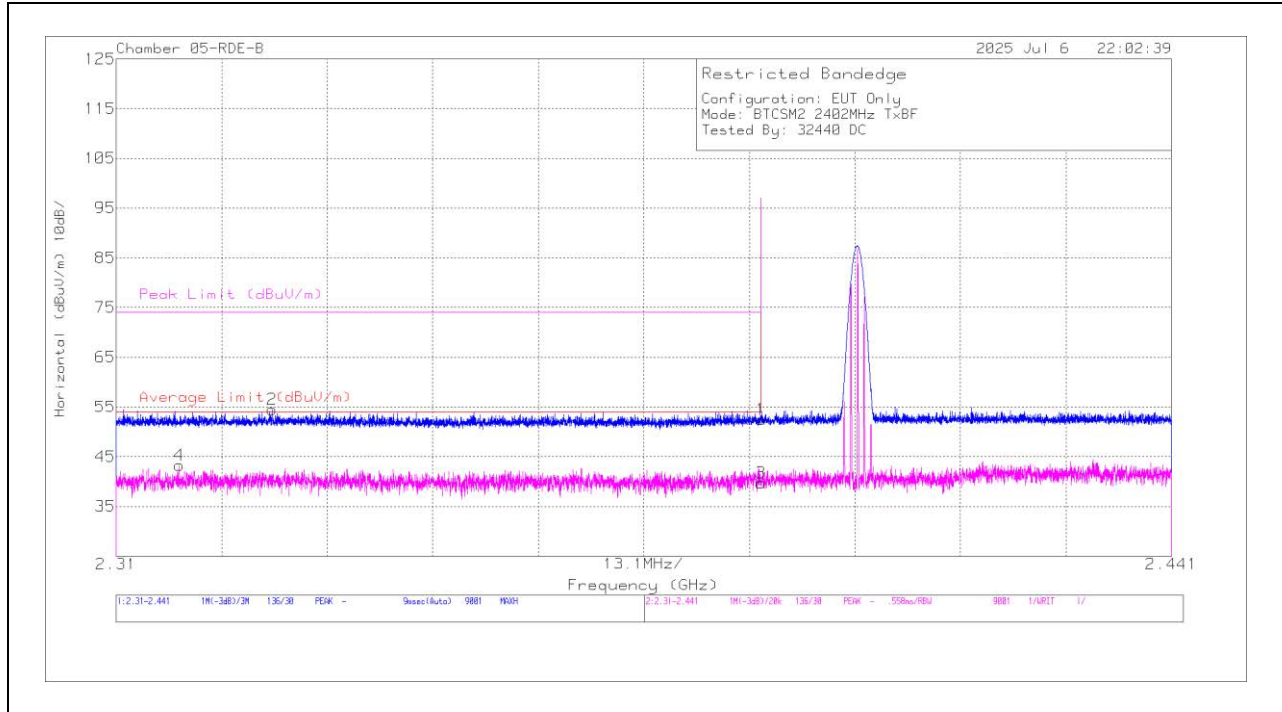
Pk - Peak detector

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

## 10.1.12. LOW POWER ENHANCED DATA RATE TX BF BTCSM2 MODULATION

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



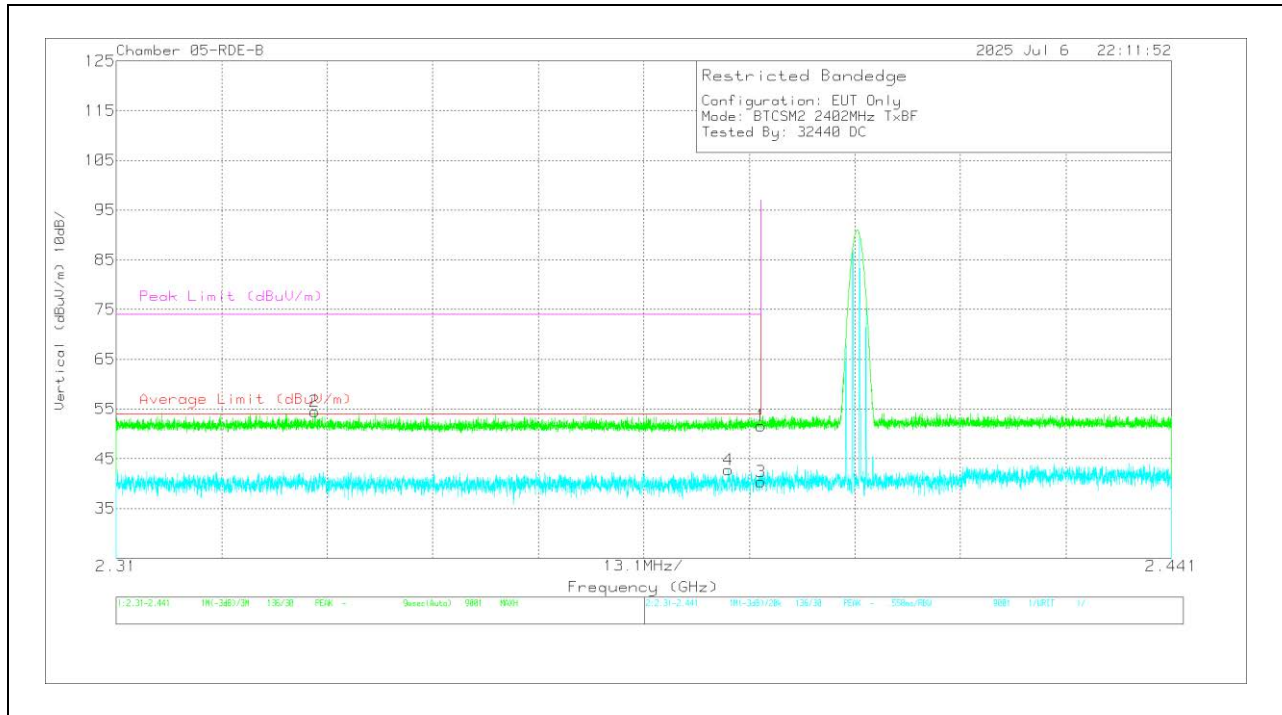
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dBm) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 4      | *2.317846       | 52.27                | VA1T | 31.7             | -40.65         | 43.32                      | 54                     | -10.68      | -                   | -           | 354            | 188         | H        |
| 2      | *2.329374       | 63.31                | Pk   | 31.8             | -40.58         | 54.53                      | -                      | -           | 74                  | -19.47      | 354            | 188         | H        |
| 1      | *2.39           | 60.83                | Pk   | 32               | -40.39         | 52.44                      | -                      | -           | 74                  | -21.56      | 354            | 188         | H        |
| 3      | *2.39           | 48.12                | VA1T | 32               | -40.39         | 39.73                      | 54                     | -14.27      | -                   | -           | 354            | 188         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT

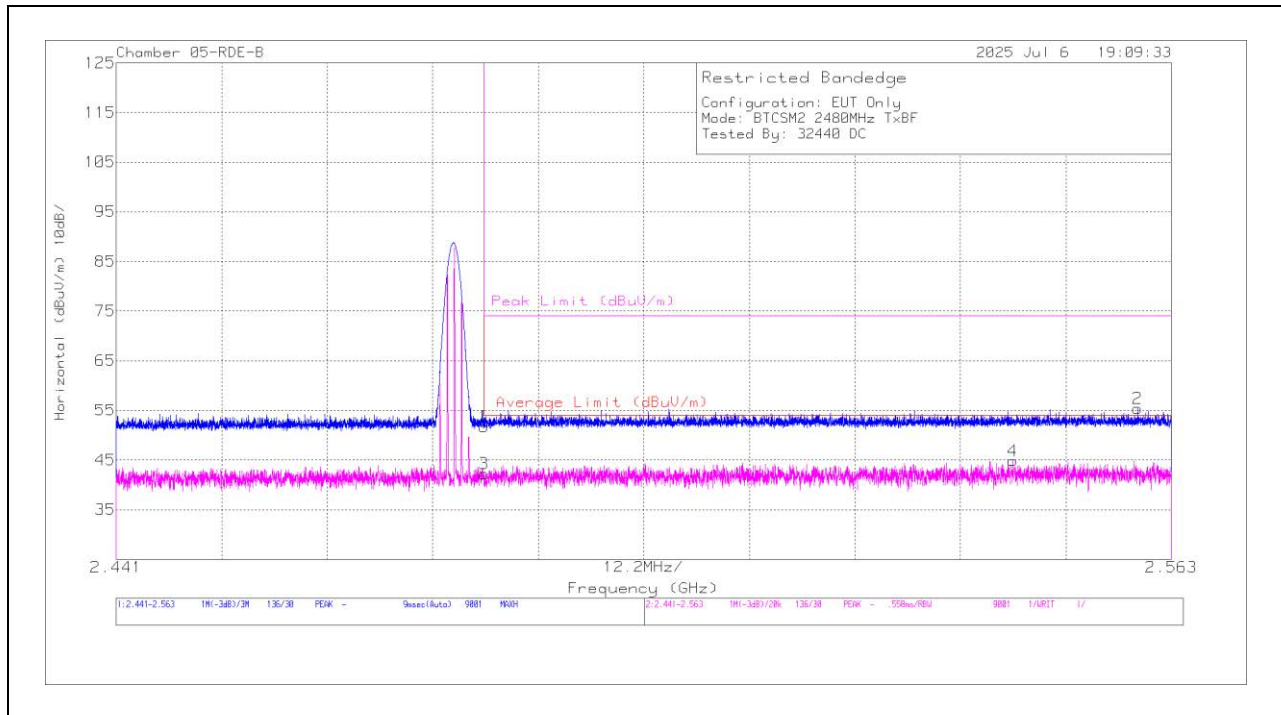


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 2      | *2.334672       | 63.26                | Pk   | 31.8              | -40.61         | 54.45                      | -                      | -           | 74                  | -19.55      | 310            | 116         | V        |
| 4      | *2.386026       | 51.13                | VA1T | 32                | -40.39         | 42.74                      | 54                     | -11.26      | -                   | -           | 310            | 116         | V        |
| 1      | *2.39           | 59.97                | Pk   | 32                | -40.39         | 51.58                      | -                      | -           | 74                  | -22.42      | 310            | 116         | V        |
| 3      | *2.39           | 48.79                | VA1T | 32                | -40.39         | 40.4                       | 54                     | -13.6       | -                   | -           | 310            | 116         | 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**

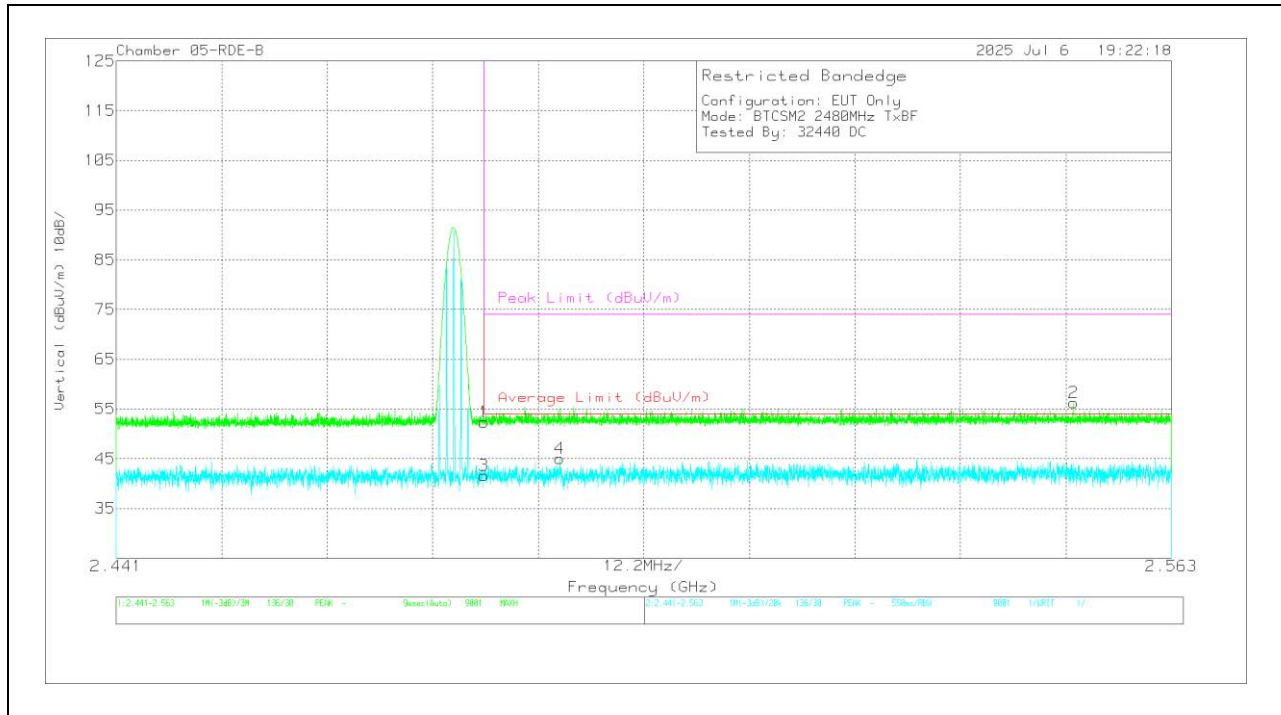
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 59.89                | Pk   | 32.2              | -40.39         | 51.7                       | -                      | -           | 74                  | -22.3       | 72             | 130         | H        |
| 3      | *2.4835         | 50.44                | VA1T | 32.2              | -40.39         | 42.25                      | 54                     | -11.75      | -                   | -           | 72             | 130         | H        |
| 4      | *2.544676       | 52.68                | VA1T | 32.3              | -40.14         | 44.84                      | 54                     | -9.16       | -                   | -           | 72             | 130         | H        |
| 2      | *2.5591         | 63.2                 | Pk   | 32.3              | -40.09         | 55.41                      | -                      | -           | 74                  | -18.59      | 72             | 130         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 226672 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.4835         | 60.57                | Pk   | 32.2              | -40.39         | 52.38                      | -                      | -           | 74                  | -21.62      | 301            | 110         | V        |
| 3      | *2.4835         | 49.86                | VA1T | 32.2              | -40.39         | 41.67                      | 54                     | -12.33      | -                   | -           | 301            | 110         | V        |
| 4      | *2.492282       | 53.12                | VA1T | 32.3              | -40.38         | 45.04                      | 54                     | -8.96       | -                   | -           | 301            | 110         | V        |
| 2      | *2.551671       | 64.08                | Pk   | 32.3              | -40.11         | 56.27                      | -                      | -           | 74                  | -17.73      | 301            | 110         | V        |

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

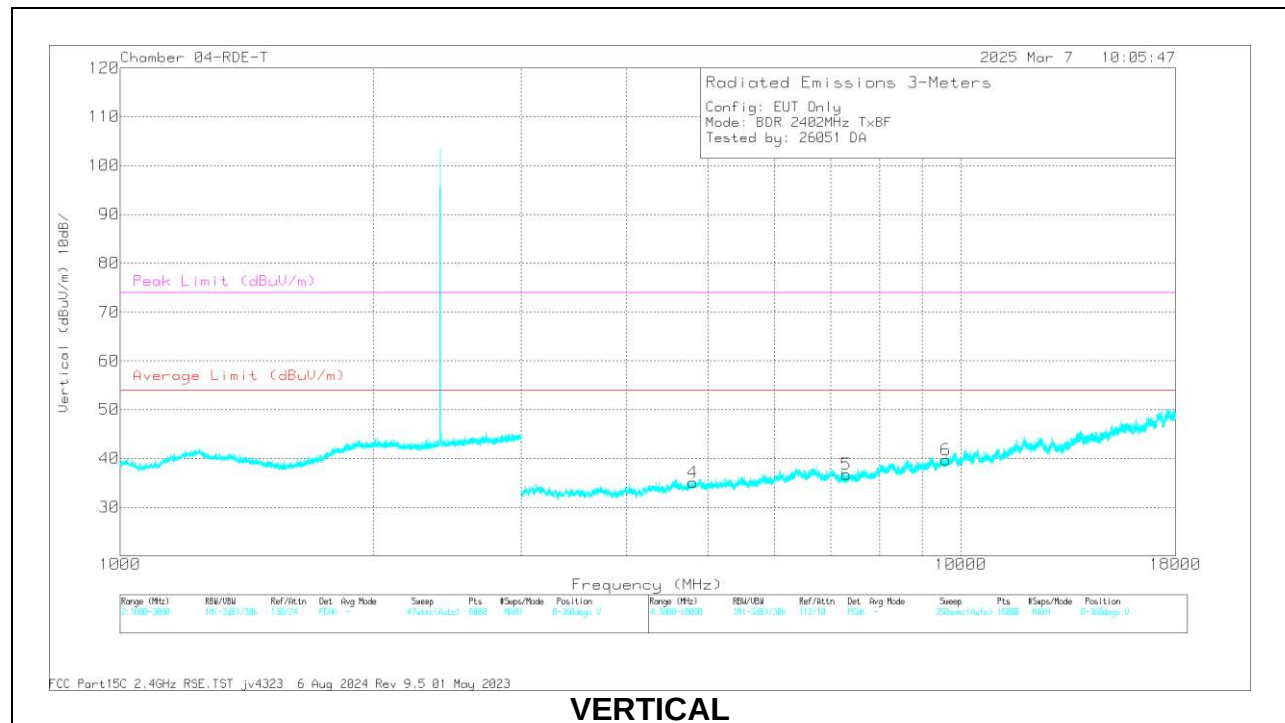
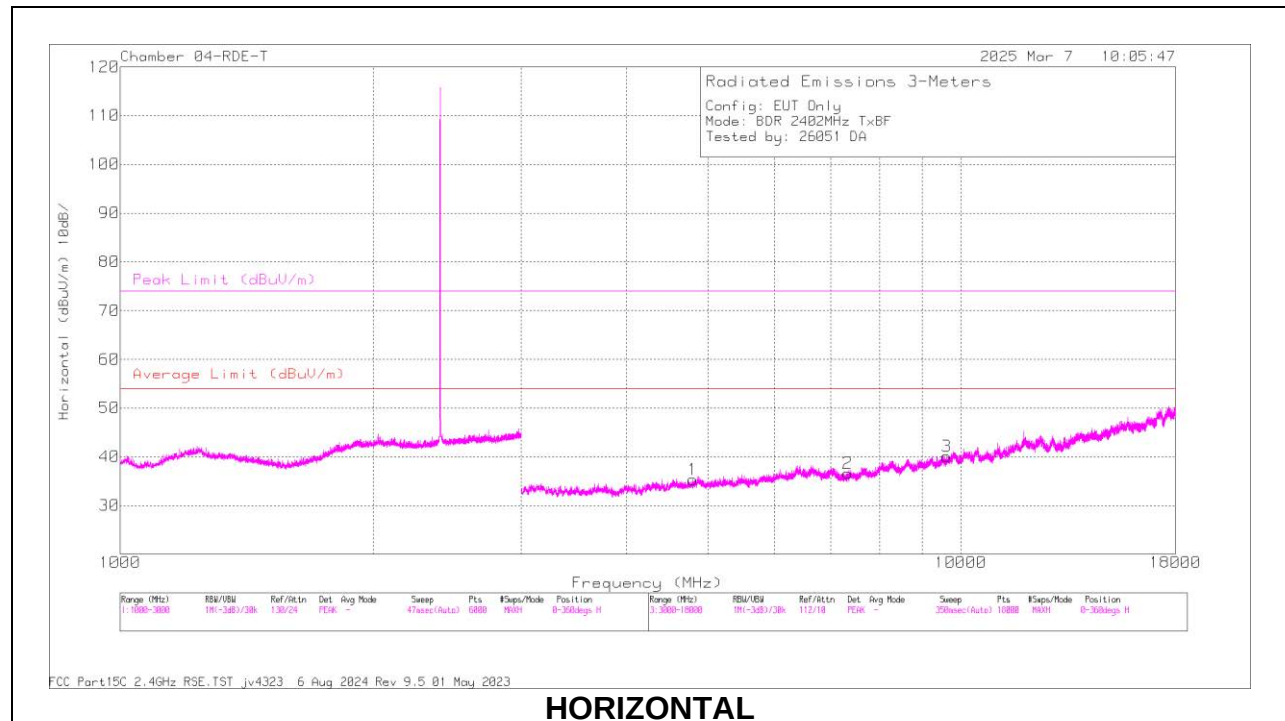
Pk – Peak

detector

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

# 10.1.13. WORST CASE HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**RADIATED EMISSIONS**

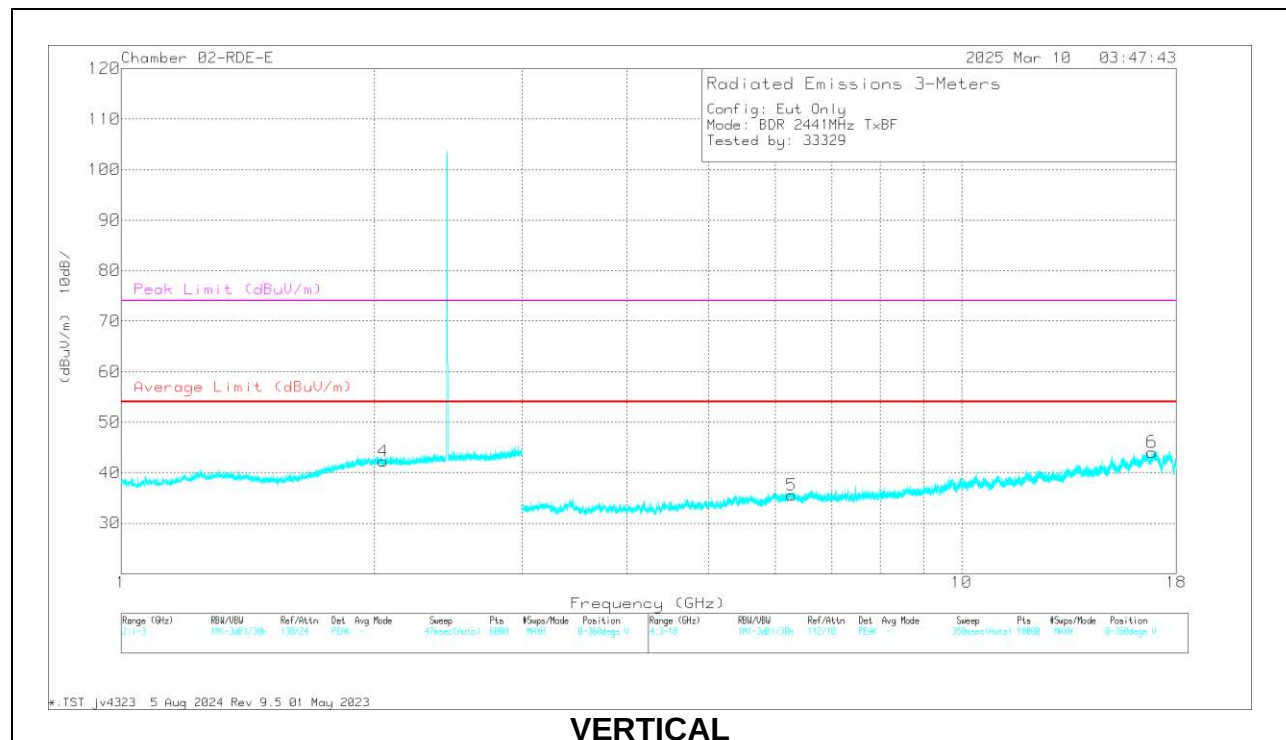
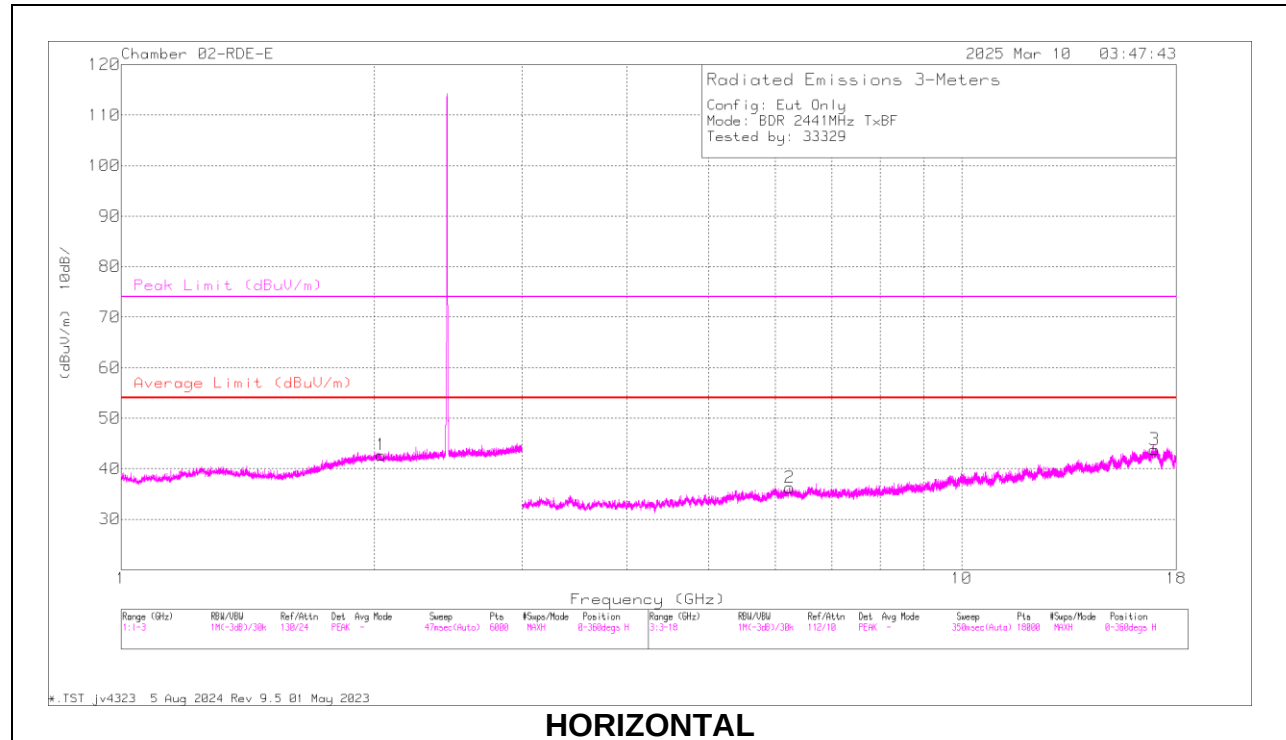
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det  | 79834 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | * 4798.856      | 56.99                | PKFH | 34.2             | -46.77         | 44.42                      | -                      | -           | 74                  | -29.58      | 115            | 131         | H        |
|        | * 4798.999      | 42.52                | VA1T | 34.2             | -46.76         | 29.96                      | 54                     | -24.4       | -                   | -           | 115            | 131         | H        |
| 2      | * 7334.283      | 53.74                | PKFH | 35.3             | -43.71         | 45.33                      | -                      | -           | 74                  | -28.67      | 6              | 242         | H        |
|        | * 7328.377      | 40.19                | VA1T | 35.3             | -43.55         | 31.94                      | 54                     | -22.06      | -                   | -           | 6              | 242         | H        |
| 3      | 9613.059        | 52.9                 | PKFH | 36.8             | -40.79         | 48.91                      | -                      | -           | -                   | -           | 240            | 306         | H        |
| 4      | * 4797.308      | 55.62                | PKFH | 34.2             | -46.79         | 43.03                      | -                      | -           | 74                  | -30.97      | 141            | 115         | V        |
|        | * 4796.717      | 42.53                | VA1T | 34.2             | -46.81         | 32.26                      | 54                     | -24.08      | -                   | -           | 141            | 115         | V        |
| 5      | * 7311.045      | 53.83                | PKFH | 35.3             | -44.02         | 45.11                      | -                      | -           | 74                  | -28.89      | 124            | 109         | V        |
|        | * 7312.625      | 40.07                | VA1T | 35.3             | -43.96         | 31.41                      | 54                     | -22.59      | -                   | -           | 124            | 109         | V        |
| 6      | 9610.772        | 53.43                | PKFH | 36.8             | -41.05         | 49.18                      | -                      | -           | -                   | -           | 132            | 259         | V        |

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

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

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

## MID CHANNEL RESULTS



**RADIATED EMISSIONS**

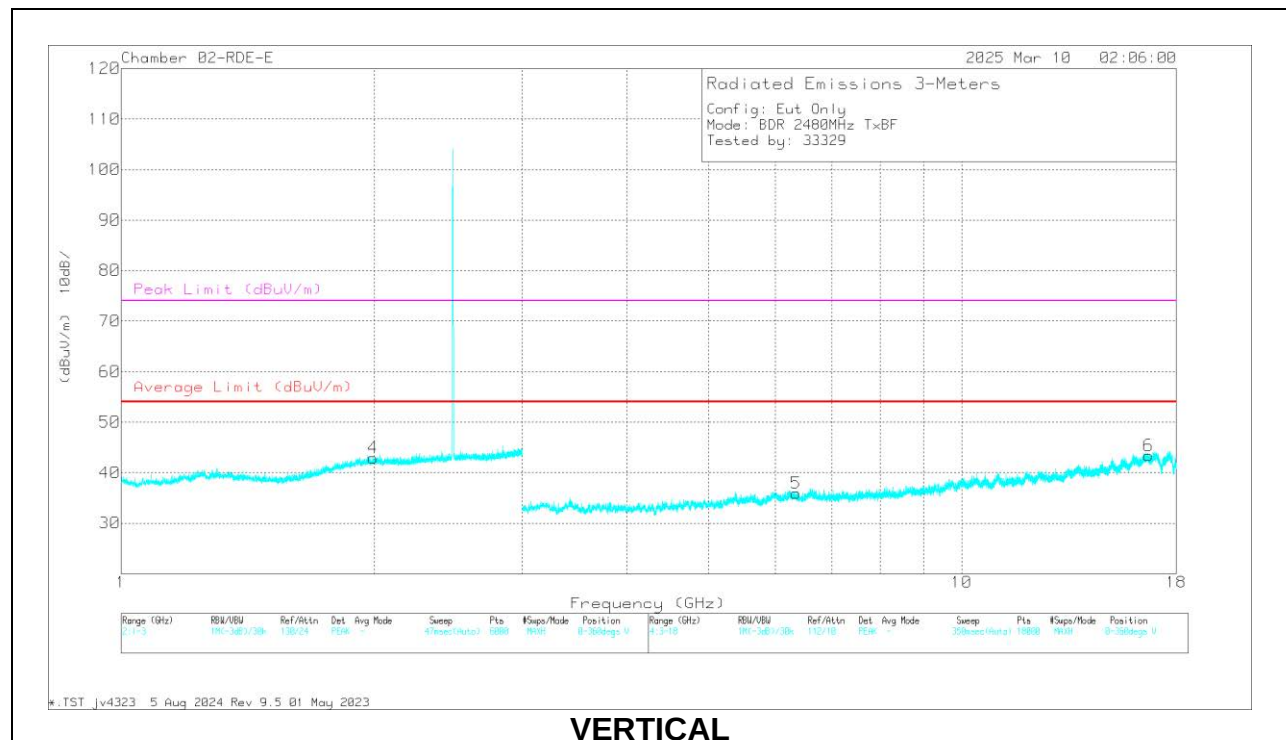
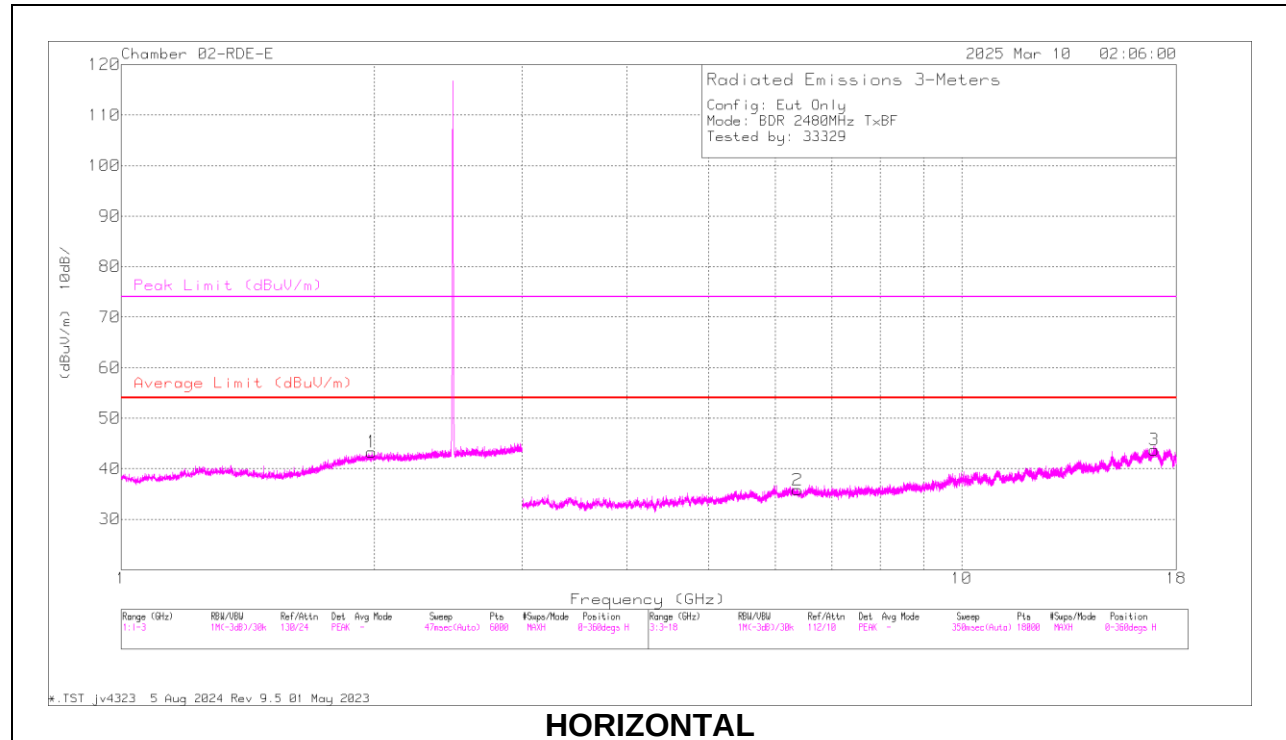
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 84796 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *2.038837       | 58.7                 | PKFH | 31.4             | -39.1          | 51                         |                        |             | 74                  | -23         | 360            | 101         | H        |
|        | *2.038243       | 45.21                | VA1T | 31.4             | -39.12         | 37.49                      | 54                     | -16.51      | -                   | -           | 360            | 101         | H        |
| 2      | *6.239502       | 53.27                | PKFH | 35.6             | -43.97         | 44.9                       |                        |             | 74                  | -29.1       | 360            | 101         | H        |
|        | *6.240626       | 39.52                | VA1T | 35.6             | -43.97         | 31.15                      | 54                     | -22.85      | -                   | -           | 360            | 101         | H        |
| 3      | *16.960321      | 49.86                | PKFH | 42               | -40.92         | 50.94                      |                        |             | 74                  | -23.06      | 360            | 101         | H        |
|        | *16.958851      | 36.88                | VA1T | 42               | -40.93         | 37.95                      | 54                     | -16.05      | -                   | -           | 360            | 101         | H        |
| 4      | *2.049509       | 59.46                | PKFH | 31.4             | -39.13         | 51.73                      | -                      | -           | 74                  | -22.27      | 0-360          | 200         | V        |
|        | *2.049510       | 46.55                | VA1T | 31.4             | -39.13         | 38.82                      | 54                     | -15.18      | -                   | -           | 360            | 101         | V        |
| 5      | *6.275374       | 52.07                | PKFH | 35.6             | -44.13         | 43.54                      |                        |             | 74                  | -30.46      | 360            | 101         | V        |
|        | *6.277301       | 39.14                | VA1T | 35.6             | -44.13         | 30.61                      | 54                     | -23.39      | -                   | -           | 360            | 101         | V        |
| 6      | *16.838565      | 50.62                | PKFH | 42.1             | -41.18         | 51.54                      |                        |             | 74                  | -22.46      | 360            | 101         | V        |
|        | *16.839104      | 37.49                | VA1T | 42.1             | -41.17         | 38.42                      | 54                     | -15.58      | -                   | -           | 360            | 101         | V        |

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

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

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

## HIGH CHANNEL RESULTS



**RADIATED EMISSIONS**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 84796 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|----------------|----------------------------|------------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 1      | *1.98475        | 58.77                | PKFH | 31.3             | -39.18         | 50.89                      |                        |             | 74                  | -23.11      | 360            | 101         | H        |
|        | *1.985979       | 45.32                | VA1T | 31.3             | -39.18         | 37.44                      | 54                     | -16.56      | -                   | -           | 360            | 101         | H        |
| 2      | *6.378765       | 52.76                | PKFH | 35.6             | -44.12         | 44.24                      |                        |             | 74                  | -29.76      | 360            | 101         | H        |
|        | *6.379292       | 39.09                | VA1T | 35.6             | -44.13         | 30.56                      | 54                     | -23.44      | -                   | -           | 360            | 101         | H        |
| 3      | *16.936343      | 50.39                | PKFH | 42               | -41            | 51.39                      |                        |             | 74                  | -22.61      | 360            | 101         | H        |
|        | *16.934466      | 37.07                | VA1T | 42               | -41.01         | 36.09                      | 54                     | -17.01      | -                   | -           | 360            | 101         | H        |
| 4      | *1.991648       | 58.91                | PKFH | 31.3             | -39.21         | 51                         |                        |             | 74                  | -23         | 360            | 101         | V        |
|        | *1.992964       | 45.4                 | VA1T | 31.4             | -39.19         | 37.61                      | 54                     | -16.39      | -                   | -           | 360            | 101         | V        |
| 5      | *6.356698       | 52.37                | PKFH | 35.6             | -43.89         | 44.08                      |                        |             | 74                  | -29.92      | 360            | 101         | V        |
|        | *6.355784       | 39.16                | VA1T | 35.6             | -43.9          | 30.86                      | 54                     | -23.14      | -                   | -           | 360            | 101         | V        |
| 6      | *16.676462      | 51.06                | PKFH | 42               | -40.99         | 52.07                      |                        |             | 74                  | -21.93      | 360            | 101         | V        |
|        | *16.673799      | 36.52                | VA1T | 42               | -40.93         | 37.59                      | 54                     | -16.41      | -                   | -           | 360            | 101         | V        |

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

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

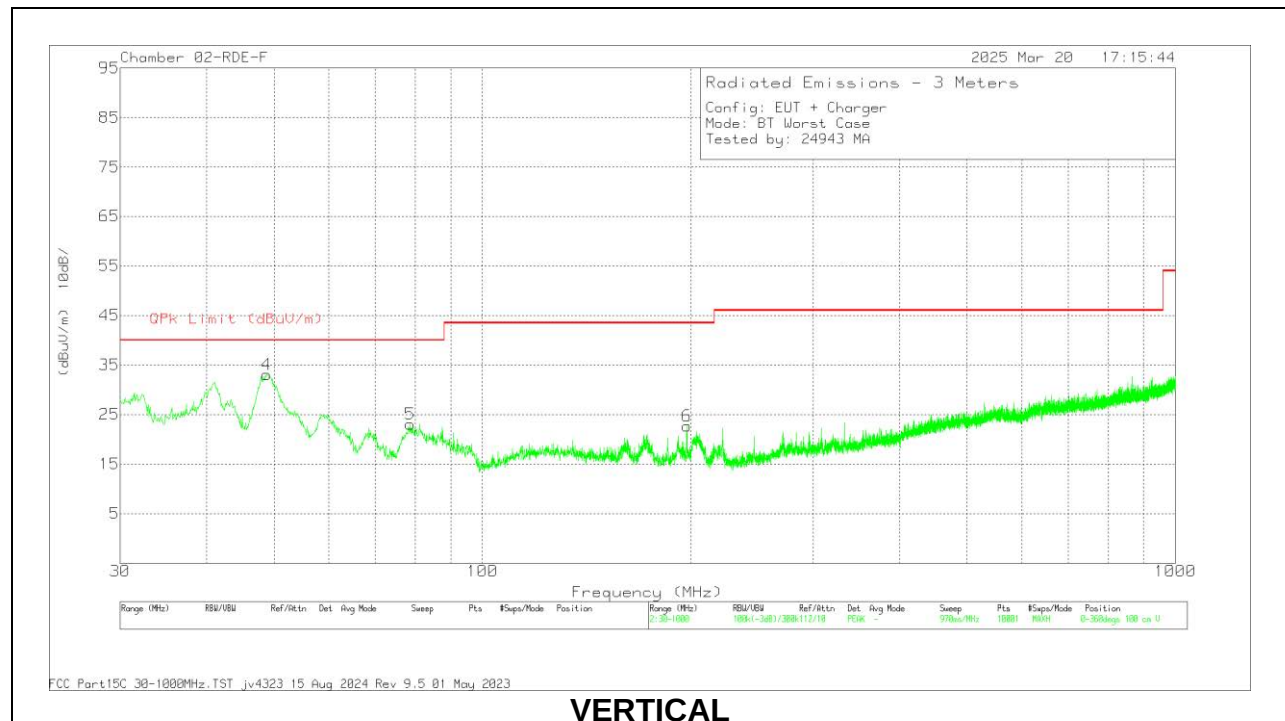
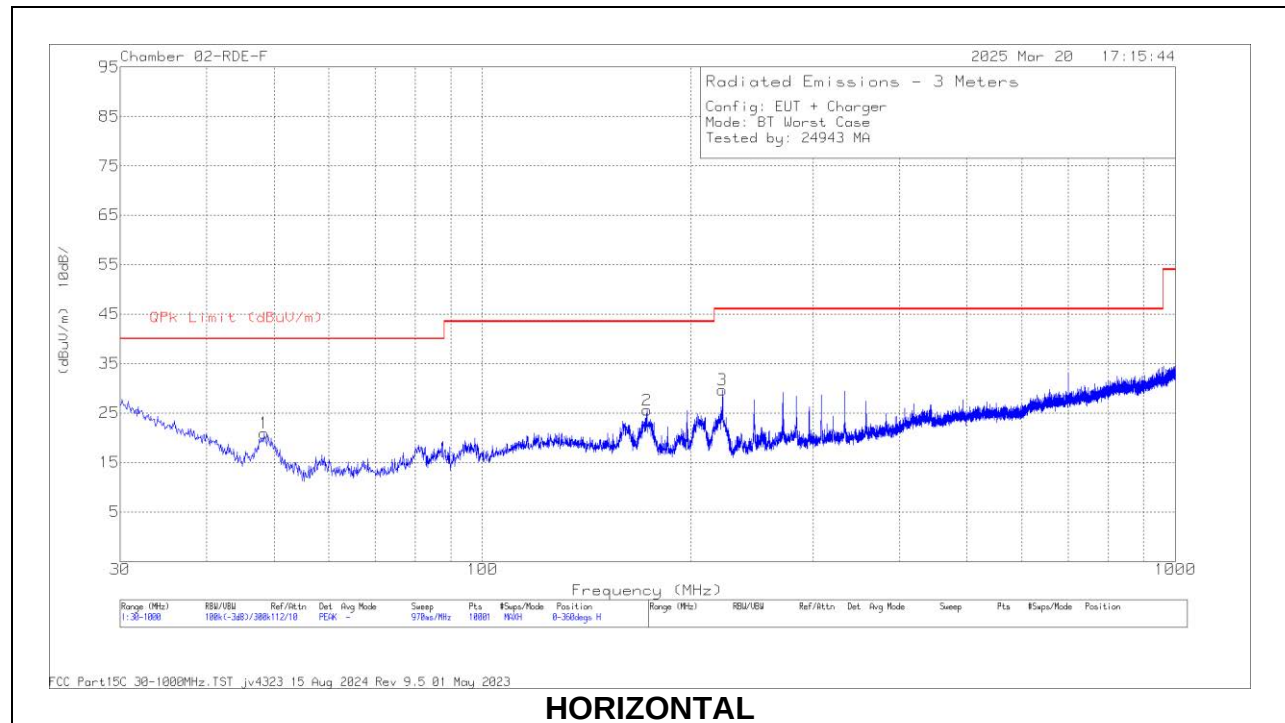
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## **10.2. WORST CASE BELOW 30MHz**

There were no emissions found below 30MHz within 20dB of the limit

### 10.3. WORST CASE BELOW 1 GHz

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

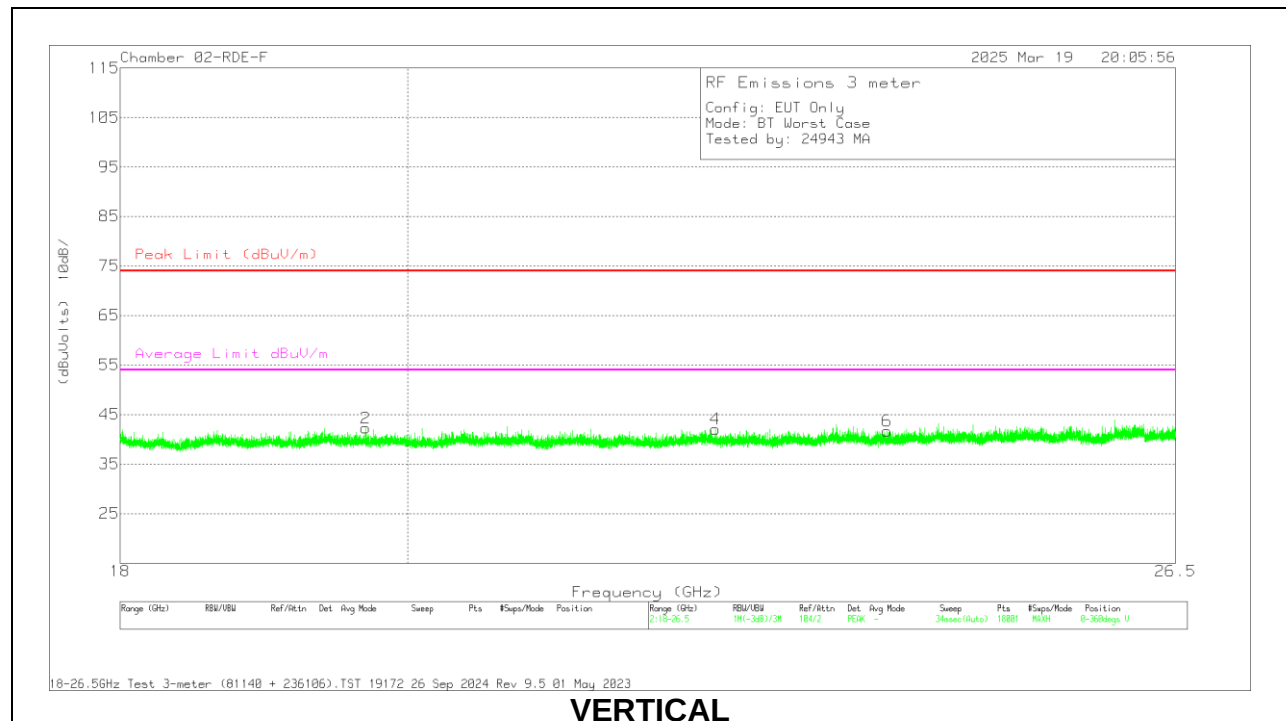
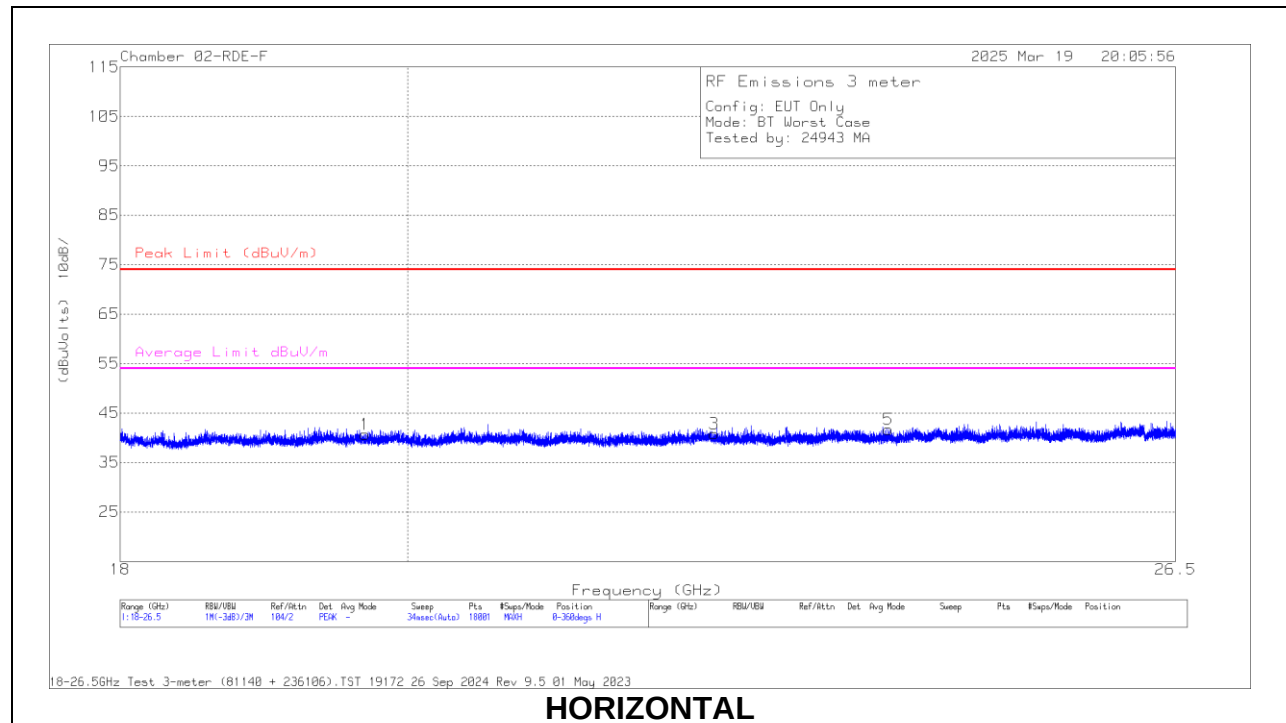


**Below 1GHz Data**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 202301 ACF (dB/m) | CBL/AMP (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | 48.8405         | 33.02                | Qp  | 13.9              | -31.8        | 15.12                      | 40                 | -24.88      | 220            | 370         | H        |
| 2      | * 172.645       | 36.25                | Qp  | 17.3              | -30.7        | 22.85                      | 43.52              | -20.67      | 123            | 189         | H        |
| 3      | 221.889         | 42.31                | Qp  | 16.6              | -30.4        | 28.51                      | 46.02              | -17.51      | 259            | 116         | H        |
| 4      | 49.1485         | 47.05                | Qp  | 13.8              | -31.7        | 29.15                      | 40                 | -10.85      | 92             | 100         | V        |
| 5      | 77.705          | 35.2                 | Qp  | 13.7              | -31.1        | 17.8                       | 40                 | -22.2       | 121            | 129         | V        |
| 6      | 197.313         | 32.91                | Qp  | 18.1              | -30.3        | 20.71                      | 43.52              | -22.81      | 318            | 101         | V        |

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

Qp - Quasi-Peak detector

**10.4. WORST CASE 18-26 GHz****SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)**

**18 – 26GHz DATA**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 81140 ACF (dB/m) | AMP (dB) | CBL (dB) | Corrected Reading (dBuVolts) | Peak Limit (dBuV/m) | PK Margin (dB) | Average Limit dBuV/m | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|------------------|----------|----------|------------------------------|---------------------|----------------|----------------------|-------------|----------------|-------------|----------|
| 1      | * 19.691499     | 52.82                | Pk  | 32.6             | -62.6    | 17.9     | 40.72                        | 74                  | -33.28         | 54                   | -13.29      | 0-360          | 200         | H        |
| 2      | * 19.694333     | 54.36                | Pk  | 32.6             | -62.6    | 17.9     | 42.26                        | 74                  | -31.74         | 54                   | -11.74      | 0-360          | 200         | V        |
| 3      | * 22.377498     | 51.03                | Pk  | 33.3             | -62.6    | 19.1     | 40.83                        | 74                  | -33.17         | 54                   | -13.17      | 0-360          | 101         | H        |
| 5      | * 23.854608     | 51.81                | Pk  | 33.8             | -63.7    | 19.8     | 41.71                        | 74                  | -32.29         | 54                   | -12.29      | 0-360          | 200         | H        |
| 4      | * 22.389776     | 52.22                | Pk  | 33.3             | -62.6    | 19.1     | 42.02                        | 74                  | -31.98         | 54                   | -11.98      | 0-360          | 101         | V        |
| 6      | * 23.844692     | 52.02                | Pk  | 33.8             | -63.8    | 19.7     | 41.72                        | 74                  | -32.28         | 54                   | -12.28      | 0-360          | 101         | V        |

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

Pk - Peak detector

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

\*Decreases with the logarithm of the frequency.

### TEST PROCEDURE

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

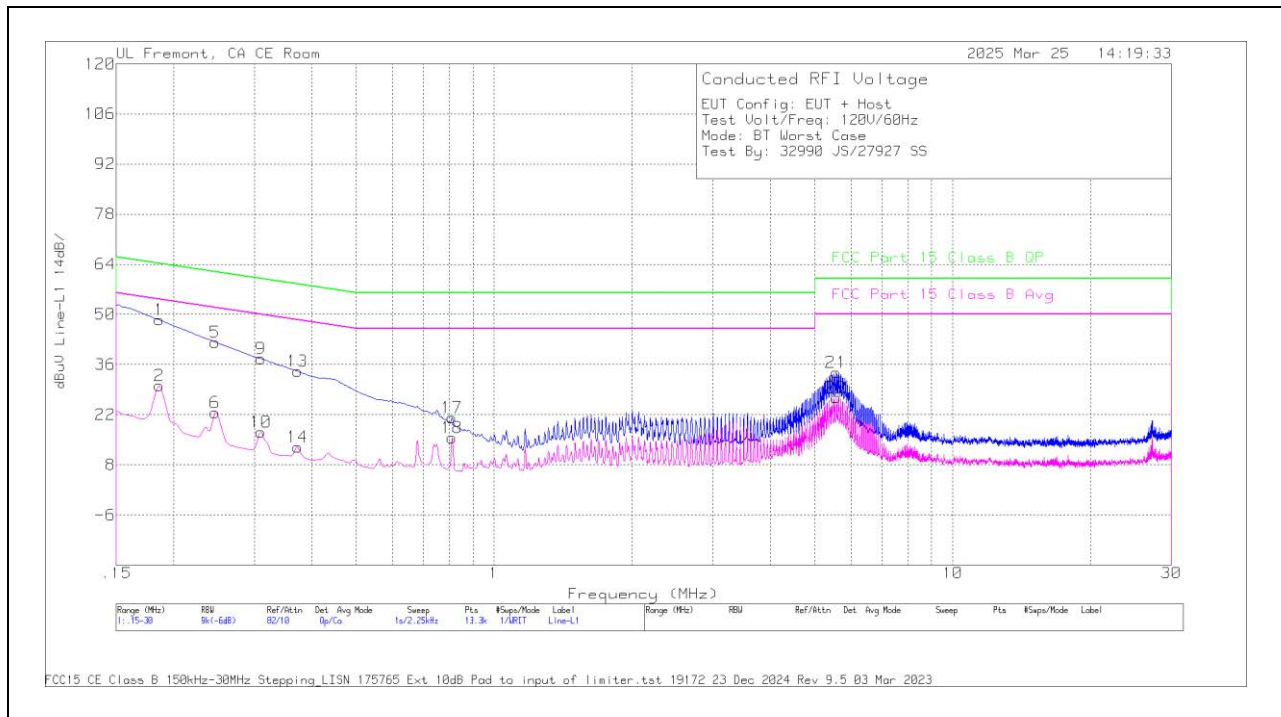
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

# 11.1.1. AC POWER LINE WITH LAPTOP

## LINE 1 RESULTS

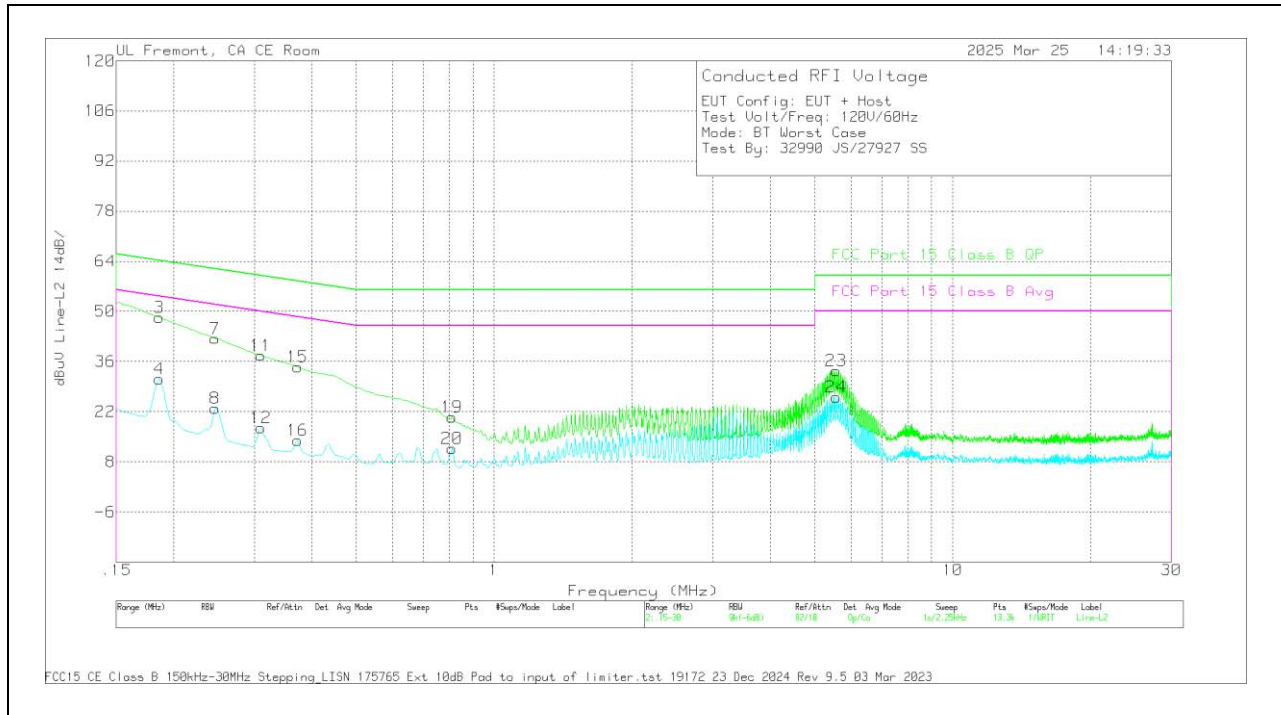


| Range 1: Line-L1 15 - 30MHz |                 |                      |     |           |         |         |                 |                        |                               |                |                                |                      |
|-----------------------------|-----------------|----------------------|-----|-----------|---------|---------|-----------------|------------------------|-------------------------------|----------------|--------------------------------|----------------------|
| Marker                      | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | CBL(dB) | CBL(dB) | 10dB Atten (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av(CISPR)Margin (dB) |
| 2                           | .186            | 11.36                | Ca  | .1        | .2      | 8.4     | 10              | 30.06                  | -                             | -              | 54.21                          | -24.15               |
| 6                           | .2468           | 4.5                  | Ca  | 0         | -.1     | 8.2     | 10              | 22.6                   | -                             | -              | 51.87                          | -29.27               |
| 10                          | .3098           | -.86                 | Ca  | 0         | -.1     | 8.1     | 10              | 17.14                  | -                             | -              | 49.98                          | -32.84               |
| 14                          | .3728           | -5.03                | Ca  | 0         | -.4     | 8.4     | 10              | 12.97                  | -                             | -              | 48.44                          | -35.47               |
| 18                          | .8093           | -2.43                | Ca  | 0         | .1      | 7.9     | 10              | 15.57                  | -                             | -              | 46                             | -30.43               |
| 22                          | 5.5703          | 8.48                 | Ca  | 0         | .2      | 8.1     | 10              | 26.78                  | -                             | -              | 50                             | -23.22               |
| 1                           | .186            | 29.77                | Qp  | .1        | .2      | 8.4     | 10              | 48.47                  | 64.21                         | -15.74         | -                              | -                    |
| 5                           | .2468           | 24.16                | Qp  | 0         | -.1     | 8.2     | 10              | 42.26                  | 61.87                         | -19.61         | -                              | -                    |
| 9                           | .3098           | 19.66                | Qp  | 0         | -.1     | 8.1     | 10              | 37.66                  | 59.98                         | -22.32         | -                              | -                    |
| 13                          | .3728           | 16.1                 | Qp  | 0         | -.4     | 8.4     | 10              | 34.1                   | 58.44                         | -24.34         | -                              | -                    |
| 17                          | .8093           | 3.16                 | Qp  | 0         | .1      | 7.9     | 10              | 21.16                  | 56                            | -34.84         | -                              | -                    |
| 21                          | 5.5703          | 15.49                | Qp  | 0         | .2      | 8.1     | 10              | 33.79                  | 60                            | -26.21         | -                              | -                    |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## LINE 2 RESULTS



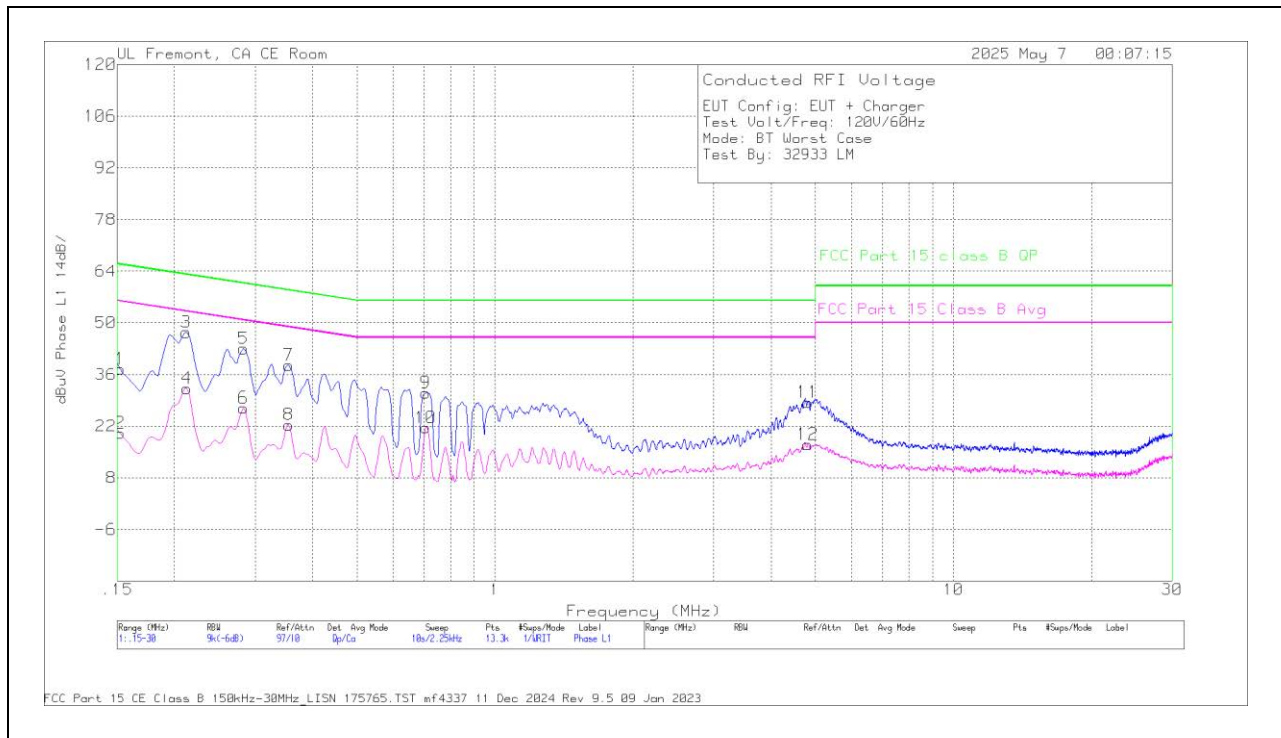
| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |           |         |         |                 |                        |                               |                |                                |                      |
|------------------------------|-----------------|----------------------|-----|-----------|---------|---------|-----------------|------------------------|-------------------------------|----------------|--------------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | CBL(dB) | CBL(dB) | 10dB Atten (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av(CISPR)Margin (dB) |
| 4                            | .186            | 12.61                | Ca  | 0         | .1      | 8.4     | 10              | 31.11                  | -                             | -              | 54.21                          | -23.1                |
| 8                            | .2468           | 4.54                 | Ca  | 0         | .2      | 8.2     | 10              | 22.94                  | -                             | -              | 51.87                          | -28.93               |
| 12                           | .3098           | -5.6                 | Ca  | 0         | 0       | 8.1     | 10              | 17.54                  | -                             | -              | 49.98                          | -32.44               |
| 16                           | .3728           | -4.35                | Ca  | 0         | -.1     | 8.4     | 10              | 13.95                  | -                             | -              | 48.44                          | -34.49               |
| 20                           | .8093           | -6.21                | Ca  | 0         | 0       | 7.9     | 10              | 11.69                  | -                             | -              | 46                             | -34.31               |
| 24                           | 5.5703          | 7.73                 | Ca  | 0         | .3      | 8.1     | 10              | 26.13                  | -                             | -              | 50                             | -23.87               |
| 3                            | .186            | 29.9                 | Qp  | 0         | .1      | 8.4     | 10              | 48.4                   | 64.21                         | -15.81         | -                              | -                    |
| 7                            | .2468           | 24.05                | Qp  | 0         | .2      | 8.2     | 10              | 42.45                  | 61.87                         | -19.42         | -                              | -                    |
| 11                           | .3098           | 19.62                | Qp  | 0         | 0       | 8.1     | 10              | 37.72                  | 59.98                         | -22.26         | -                              | -                    |
| 15                           | .3728           | 16.14                | Qp  | 0         | -.1     | 8.4     | 10              | 34.44                  | 58.44                         | -24            | -                              | -                    |
| 19                           | .8093           | 2.54                 | Qp  | 0         | 0       | 7.9     | 10              | 20.44                  | 56                            | -35.56         | -                              | -                    |
| 23                           | 5.5703          | 15.03                | Qp  | 0         | .3      | 8.1     | 10              | 33.43                  | 60                            | -26.57         | -                              | -                    |

Qp - Quasi-Peak detector

Ca - CISPR average detection

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

### LINE 1 RESULTS

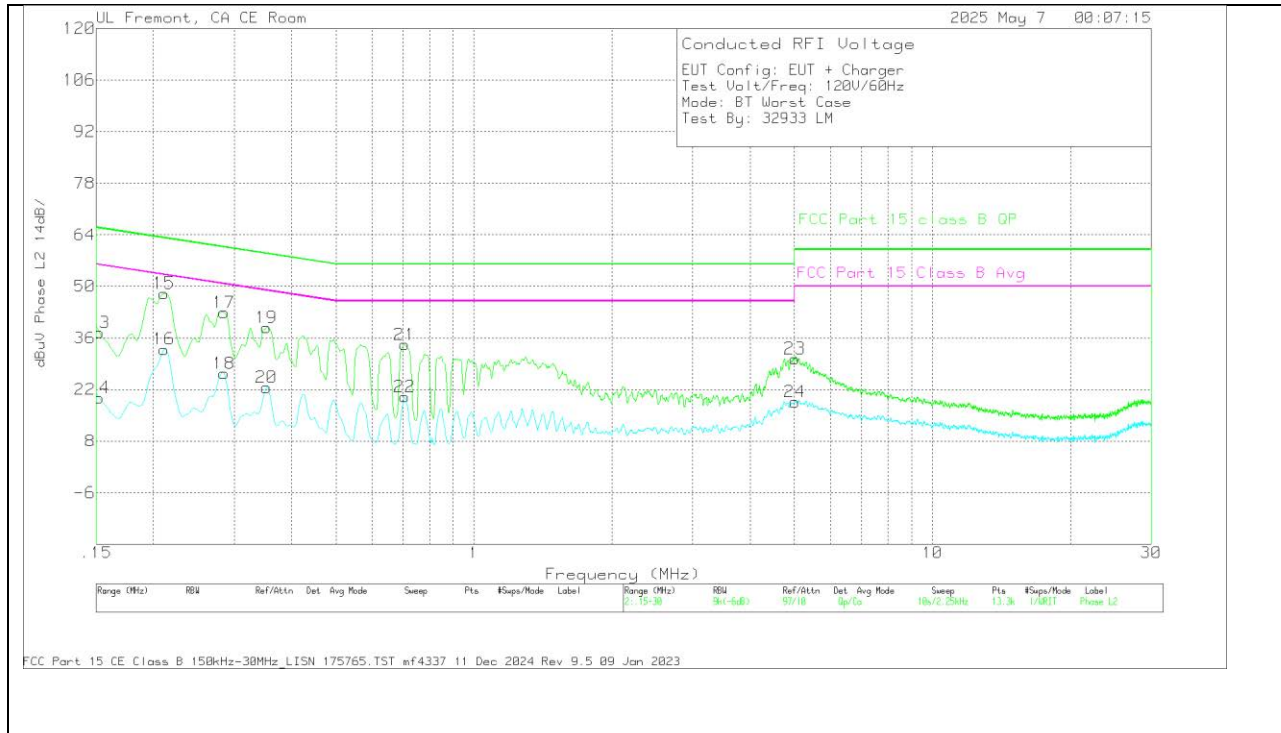


| Range 1: Phase L1 15 - 30MHz |                 |                      |     |         |           |         |                 |                        |                              |             |                             |             |
|------------------------------|-----------------|----------------------|-----|---------|-----------|---------|-----------------|------------------------|------------------------------|-------------|-----------------------------|-------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | CBL(dB) | LISN (dB) | CBL(dB) | 10dB Atten (dB) | Corrected Reading dBuV | FCC Part 15 Class B Avg dBuV | Margin (dB) | FCC Part 15 class B QP dBuV | Margin (dB) |
| 2                            | .1523           | 1.01                 | Ca  | .5      | .1        | 8.5     | 10              | 20.11                  | 55.88                        | -35.77      | -                           | -           |
| 4                            | .213            | 13.92                | Ca  | 0       | 0         | 8.3     | 10              | 32.22                  | 53.09                        | -20.87      | -                           | -           |
| 6                            | .2828           | 8.79                 | Ca  | 0       | 0         | 8.1     | 10              | 26.89                  | 50.73                        | -23.84      | -                           | -           |
| 8                            | .3548           | 4.34                 | Ca  | -.4     | 0         | 8.4     | 10              | 22.34                  | 48.85                        | -26.51      | -                           | -           |
| 10                           | .7058           | 3.17                 | Ca  | .2      | 0         | 8.2     | 10              | 21.57                  | 46                           | -24.43      | -                           | -           |
| 12                           | 4.8098          | -1.56                | Ca  | .2      | 0         | 8.4     | 10              | 17.04                  | 46                           | -28.96      | -                           | -           |
| 1                            | .1523           | 18.38                | Qp  | .5      | .1        | 8.5     | 10              | 37.48                  | -                            | -           | 65.88                       | -28.4       |
| 3                            | .2119           | 28.93                | Qp  | .1      | 0         | 8.4     | 10              | 47.43                  | -                            | -           | 63.13                       | -15.7       |
| 5                            | .2828           | 24.9                 | Qp  | 0       | 0         | 8.1     | 10              | 43                     | -                            | -           | 60.73                       | -17.73      |
| 7                            | .3548           | 20.52                | Qp  | -.4     | 0         | 8.4     | 10              | 38.52                  | -                            | -           | 58.85                       | -20.33      |
| 9                            | .7058           | 12.63                | Qp  | .2      | 0         | 8.2     | 10              | 31.03                  | -                            | -           | 56                          | -24.97      |
| 11                           | 4.8098          | 9.85                 | Qp  | .2      | 0         | 8.4     | 10              | 28.45                  | -                            | -           | 56                          | -27.55      |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## LINE 2 RESULTS



| Range 2: Phase L2 .15 - 30MHz |                 |                      |     |         |           |         |                 |                        |                              |             |                             |             |
|-------------------------------|-----------------|----------------------|-----|---------|-----------|---------|-----------------|------------------------|------------------------------|-------------|-----------------------------|-------------|
| Marker                        | Frequency (MHz) | Meter Reading (dBuV) | Det | CBL(dB) | LISN (dB) | CBL(dB) | 10dB Atten (dB) | Corrected Reading dBuV | FCC Part 15 Class B Avg dBuV | Margin (dB) | FCC Part 15 class B QP dBuV | Margin (dB) |
| 14                            | .1523           | .64                  | Ca  | .5      | .1        | 8.5     | 10              | 19.74                  | 55.88                        | -36.14      | -                           | -           |
| 16                            | .2108           | 14.42                | Ca  | .1      | 0         | 8.4     | 10              | 32.92                  | 53.18                        | -20.26      | -                           | -           |
| 18                            | .285            | 8.26                 | Ca  | 0       | 0         | 8.1     | 10              | 26.36                  | 50.67                        | -24.31      | -                           | -           |
| 20                            | .3525           | 4.54                 | Ca  | -.4     | 0         | 8.4     | 10              | 22.54                  | 48.9                         | -26.36      | -                           | -           |
| 22                            | .7058           | 1.61                 | Ca  | .2      | 0         | 8.2     | 10              | 20.01                  | 46                           | -25.99      | -                           | -           |
| 24                            | 5.01            | .33                  | Ca  | 0       | 0         | 8.3     | 10              | 18.63                  | 50                           | -31.37      | -                           | -           |
| 13                            | .1523           | 18.34                | Qp  | .5      | .1        | 8.5     | 10              | 37.44                  | -                            | -           | 65.88                       | -28.44      |
| 15                            | .2108           | 29.57                | Qp  | .1      | 0         | 8.4     | 10              | 48.07                  | -                            | -           | 63.18                       | -15.11      |
| 17                            | .285            | 24.79                | Qp  | 0       | 0         | 8.1     | 10              | 42.89                  | -                            | -           | 60.67                       | -17.78      |
| 19                            | .3525           | 20.8                 | Qp  | -.4     | 0         | 8.4     | 10              | 38.8                   | -                            | -           | 58.9                        | -20.1       |
| 21                            | .7058           | 15.79                | Qp  | .2      | 0         | 8.2     | 10              | 34.19                  | -                            | -           | 56                          | -21.81      |
| 23                            | 5.01            | 12.04                | Qp  | 0       | 0         | 8.3     | 10              | 30.34                  | -                            | -           | 60                          | -29.66      |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## **12. SETUP PHOTOS**

Please refer to 15496282-EP1 for setup photos

## **APPENDIX A – SPOT CHECK EVALUATION**

# 1. SPOT CHECK EVALUATION

## 1.1. MODEL DIFFERENCES

The manufacturer hereby declares the following for models A3260, A3516, A3517 and A3518.

A3260, A3516, A3517 and A3518 are highly similar, with the only difference being the supported cellular bands.

| Model | FCC ID     | IC ID       | Feature Difference                | Sim Support | Reference Model |
|-------|------------|-------------|-----------------------------------|-------------|-----------------|
| A3260 | BCG-E8948A | 579C-E8948A | _No B11/21                        | eSIM        | -               |
| A3516 | BCG-E8954A | 579C-E8954A | _Added B11/21<br>_No B14/29/71    |             | A3260           |
| A3517 | BCG-E8955A | 579C-E8955A | _No B11/21/14/29/71               |             |                 |
| A3528 | BCG-E8956A | 579C-E8956A | _No B11/21/14/29/71/53<br>_No MSS |             |                 |

Note:

All models have the same PCB layout, circuit design, common components, antennas and antenna locations across their respective reference model table above. The cellular modem, Wi-Fi, BT, NFC, WPT, UWB, NB UNII, 802.15.4, 802.15.4ab-NB and MSS transmitters are identical.

Removal of LTE/NR (B14/29/53/71) and MSS bands is done by de-population of directly related components.

The spot check plan allows for data reuse from the reference model where the variant model data meets the limits and has not changed by more than the criteria from KDB 484596 D01 v03 equation (4).

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

Where:  $d_{dB}$  deviation from Reference data,  $V_{dB}$  variant spot check level, and  $R_{dB}$  measurement level

## 1.2. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3516

| A3516 SPOT CHECK RESULTS     |                 |           |                            |         |                          |                                         |                                         |            |        |         |
|------------------------------|-----------------|-----------|----------------------------|---------|--------------------------|-----------------------------------------|-----------------------------------------|------------|--------|---------|
| Equipment Class / Technology | Frequency (GHz) | Mode      | Test Item                  | Channel | Measured Frequency (GHz) | Original Model: A3260                   | Sub Model: A3516                        | Delta (dB) | Margin | Remarks |
|                              |                 |           |                            |         |                          | FCC ID : BCG-E8948A<br>IC : 579C-E8948A | FCC ID : BCG-E8954A<br>IC : 579C-E8954A |            |        |         |
| DSS / BT                     | 2.4             | GFSK ANT2 | Output Power (dBm)         | Low     | Fundamental              | 20.54                                   | 20.33                                   | -0.21      | -0.46  | Note 1  |
|                              |                 | 8PSK TxBF | Radiated Bandedge (dBuV/m) | High    | Horizontal High Bandedge | 70.23                                   | 68.67                                   | -1.56      | -3.77  | Note 1  |
|                              |                 | GFSK      | RSE (dBuV/m)               | Mid     | 30M-1000MHz              | 29.15                                   | 28.93                                   | -0.22      | -10.85 | Note 1  |

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

## 1.3. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3517

| A3517 SPOT CHECK RESULTS     |                 |           |                            |         |                          |                                         |                                         |            |        |         |
|------------------------------|-----------------|-----------|----------------------------|---------|--------------------------|-----------------------------------------|-----------------------------------------|------------|--------|---------|
| Equipment Class / Technology | Frequency (GHz) | Mode      | Test Item                  | Channel | Measured Frequency (GHz) | Original Model: A3260                   | Sub Model: A3517                        | Delta (dB) | Margin | Remarks |
|                              |                 |           |                            |         |                          | FCC ID : BCG-E8948A<br>IC : 579C-E8948A | FCC ID : BCG-E8955A<br>IC : 579C-E8955A |            |        |         |
| DSS / BT                     | 2.4             | GFSK ANT2 | Output Power (dBm)         | Low     | Fundamental              | 20.54                                   | 20.42                                   | -0.12      | -0.46  | Note 1  |
|                              |                 | 8PSK TxBF | Radiated Bandedge (dBuV/m) | High    | Horizontal High Bandedge | 70.23                                   | 68.67                                   | -1.56      | -3.77  | Note 1  |
|                              |                 | GFSK      | RSE (dBuV/m)               | Mid     | 30M-1000MHz              | 29.15                                   | 29.35                                   | 0.20       | -10.85 | Note 1  |

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.

## 1.4. SPOT CHECK VERIFICATION RESULTS SUMMARY FOR A3518

| A3518 SPOT CHECK RESULTS     |                 |           |                            |         |                          |                                         |                                         |            |        |         |
|------------------------------|-----------------|-----------|----------------------------|---------|--------------------------|-----------------------------------------|-----------------------------------------|------------|--------|---------|
| Equipment Class / Technology | Frequency (GHz) | Mode      | Test Item                  | Channel | Measured Frequency (GHz) | Original Model: A3260                   | Sub Model: A3518                        | Delta (dB) | Margin | Remarks |
|                              |                 |           |                            |         |                          | FCC ID : BCG-E8948A<br>IC : 579C-E8948A | FCC ID : BCG-E8956A<br>IC : 579C-E8956A |            |        |         |
| DSS / BT                     | 2.4             | GFSK ANT2 | Output Power (dBm)         | Low     | Fundamental              | 20.54                                   | 20.29                                   | -0.25      | -0.46  | Note 1  |
|                              |                 | 8PSK TxBF | Radiated Bandedge (dBuV/m) | High    | Horizontal High Bandedge | 70.23                                   | 67.12                                   | -3.11      | -3.77  | Note 1  |
|                              |                 | GFSK      | RSE (dBuV/m)               | Mid     | 30M-1000MHz              | 29.15                                   | 28.73                                   | -0.42      | -10.85 | Note 1  |

Note 1: Deviation from reference to variant within the value allowed by equation (4) in KDB 484596. Additional tests not required.

Note 2: Deviation from reference to variant exceeds the value allowed by equation (4) in KDB 484596. Additional tests performed on second channel.