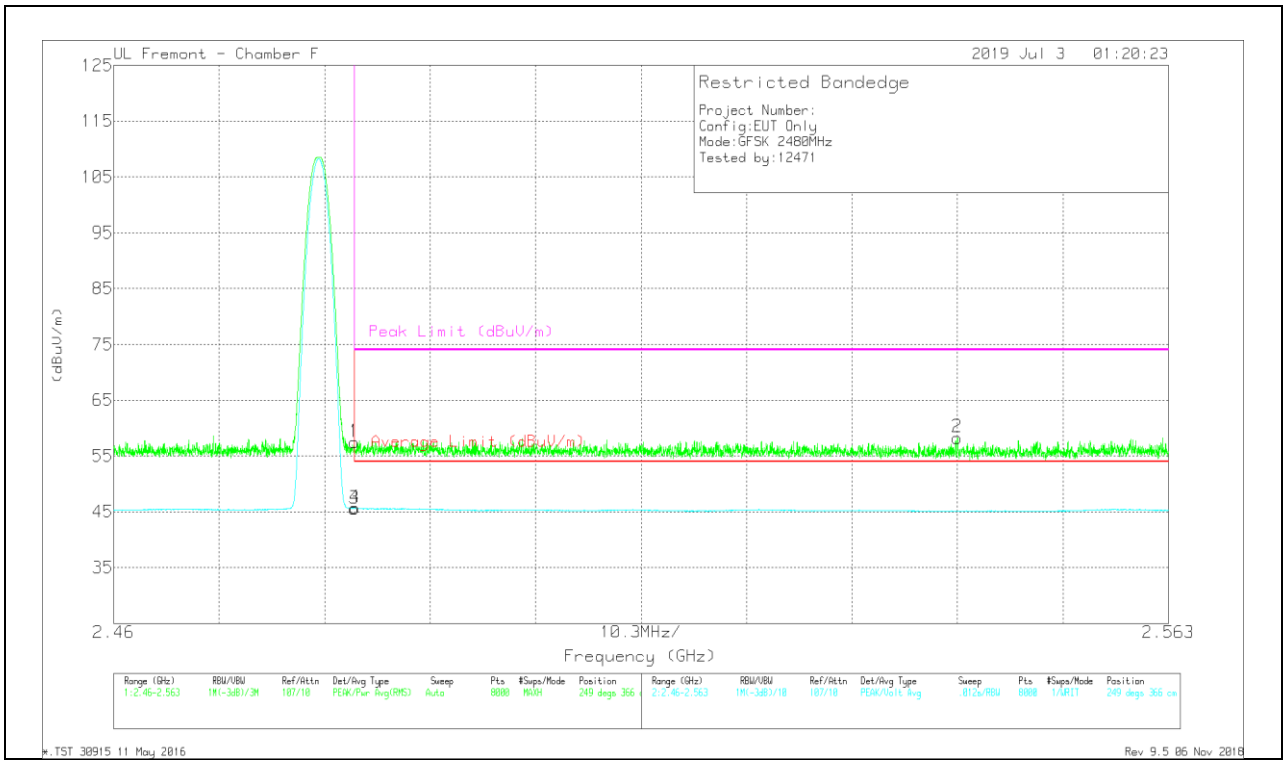
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.8 | Pk | 32.4 | -14.7 | 57.5 | - | - | 74 | -16.5 | 249 | 366 | V |
| 2 | 2.542 | 40.7 | Pk | 32.3 | -14.7 | 58.3 | - | - | 74 | -15.7 | 249 | 366 | V |
| 3 | * 2.484 | 27.91 | VA1T | 32.4 | -14.7 | 45.61 | 54 | -8.39 | - | - | 249 | 366 | V |
| 4 | * 2.484 | 27.96 | VA1T | 32.4 | -14.7 | 45.66 | 54 | -8.34 | - | - | 249 | 366 | V |

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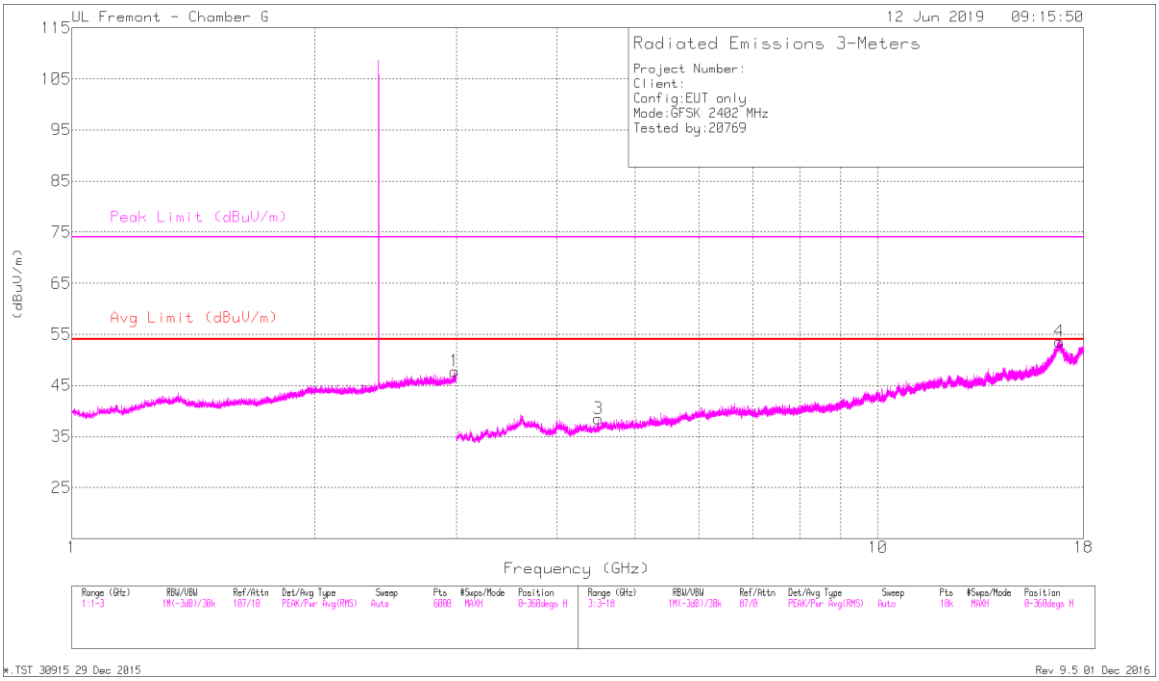
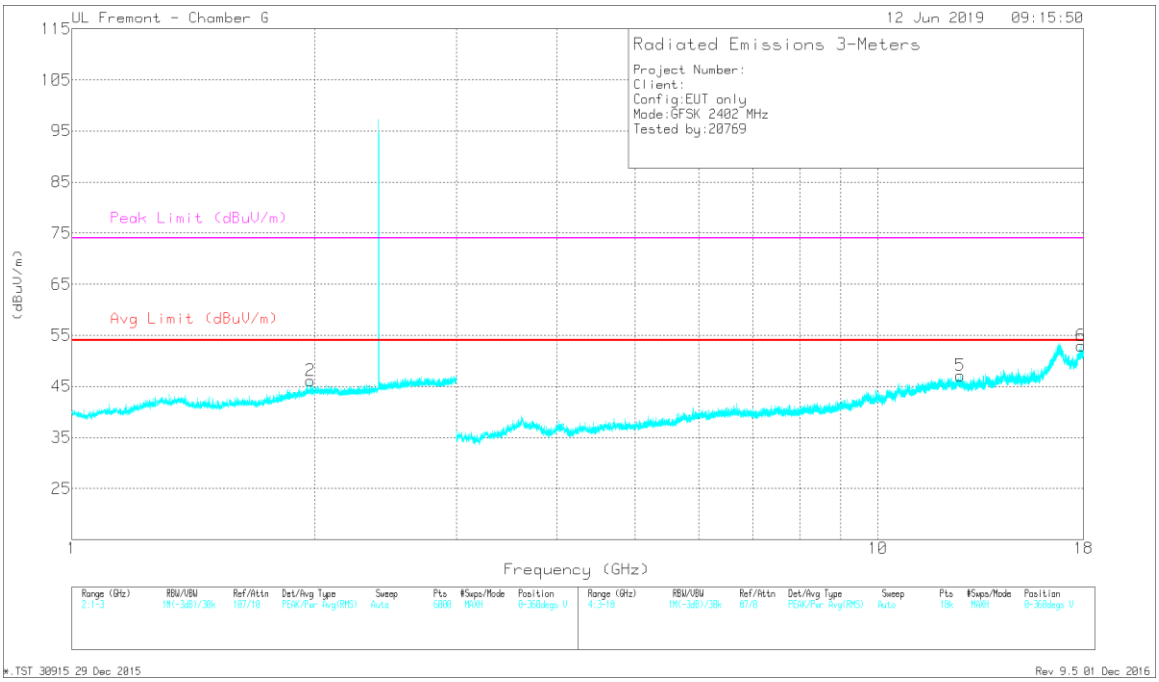
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | * 4.503 | 39.24 | PKFH | 34 | -30 | 43.24 | - | - | 74 | -30.76 | 236 | 304 | H |
| | * 4.505 | 27.67 | VA1T | 34 | -30.1 | 31.57 | 54 | -22.43 | - | - | 236 | 304 | H |
| 5 | * 12.655 | 35.12 | PKFH | 39.7 | -23.1 | 51.72 | - | - | 74 | -22.28 | 211 | 100 | V |
| | * 12.655 | 23.46 | VA1T | 39.7 | -23.1 | 40.06 | 54 | -13.94 | - | - | 211 | 100 | V |
| 6 | * 17.877 | 34.53 | PKFH | 42.3 | -18.1 | 58.73 | - | - | 74 | -15.27 | 109 | 224 | V |
| | * 17.874 | 22.14 | VA1T | 42.4 | -18 | 46.54 | 54 | -7.46 | - | - | 109 | 224 | V |
| 2 | 1.978 | 41.25 | PKFH | 32.1 | -22.7 | 50.65 | - | - | 74 | -23.35 | 124 | 176 | V |
| 1 | 2.986 | 40.77 | PKFH | 32.8 | -21.5 | 52.07 | - | - | 74 | -21.93 | 39 | 325 | H |
| 4 | 16.81 | 34.67 | PKFH | 41.8 | -17.8 | 58.67 | - | - | 74 | -15.33 | 56 | 371 | H |

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


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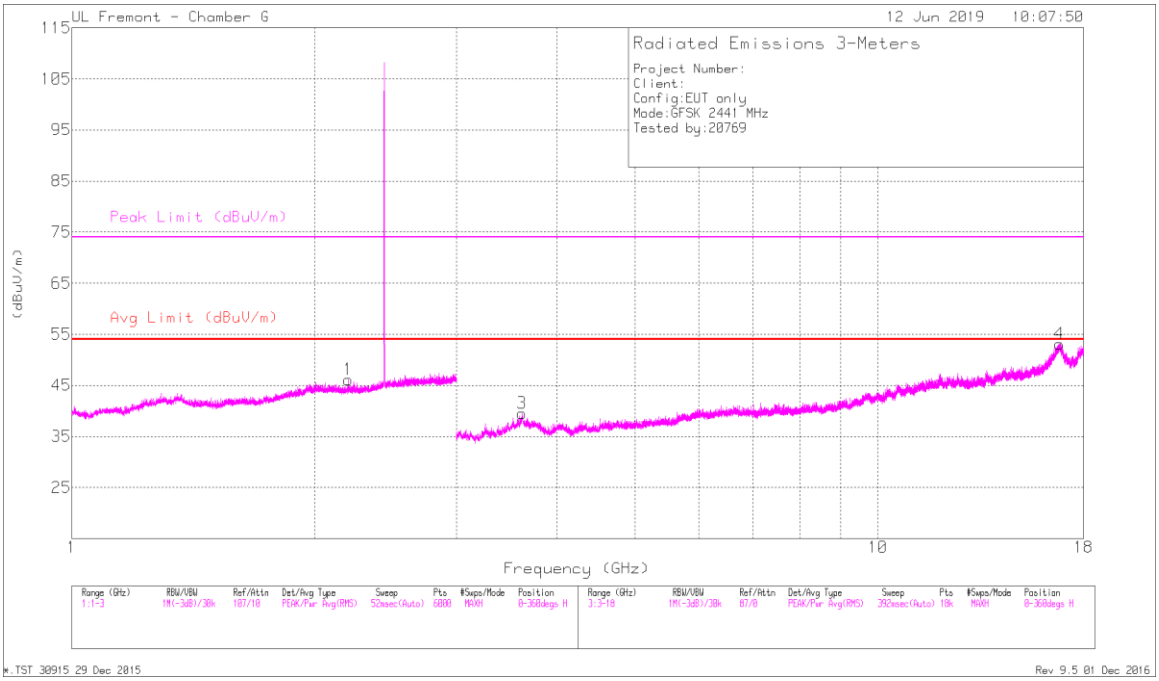
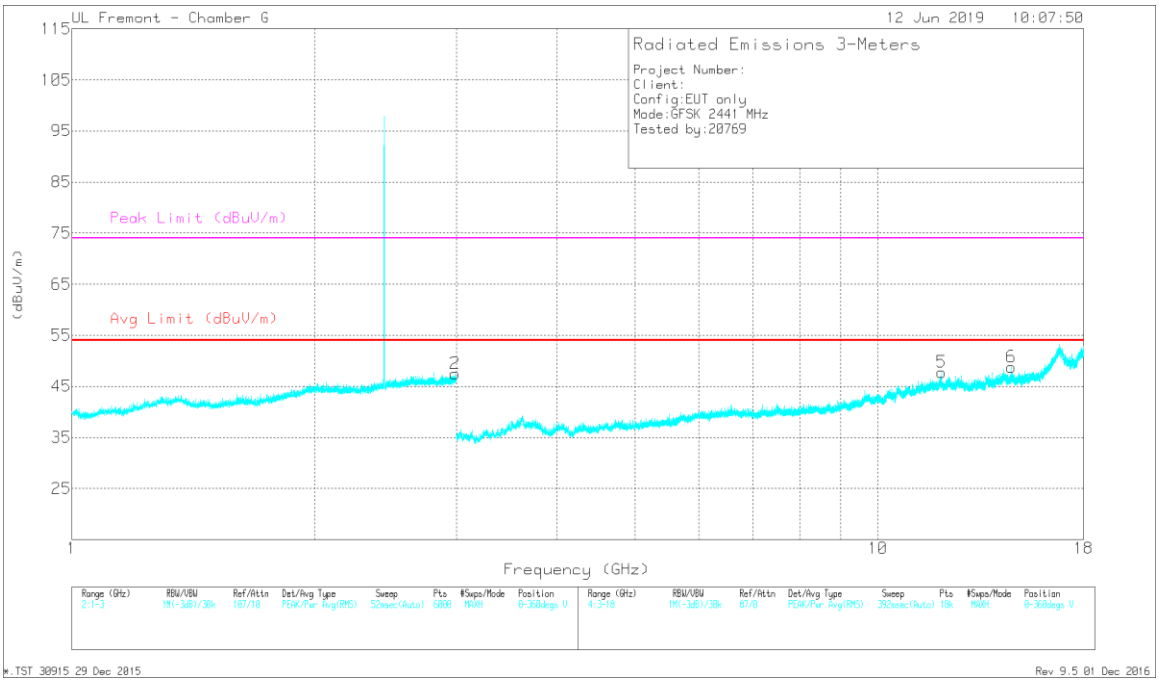
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.201 | 41.13 | PKFH | 31.8 | -22.4 | 50.53 | - | - | 74 | -23.47 | 85 | 151 | H |
| | * 2.204 | 29.42 | VA1T | 31.8 | -22.5 | 38.72 | 54 | -15.28 | - | - | 85 | 151 | H |
| 3 | * 3.622 | 40.58 | PKFH | 35.6 | -29.9 | 46.28 | - | - | 74 | -27.72 | 128 | 169 | H |
| | * 3.621 | 28.08 | VA1T | 35.7 | -30 | 33.78 | 54 | -20.22 | - | - | 128 | 169 | H |
| 5 | * 11.993 | 35.6 | PKFH | 39.5 | -22.3 | 52.8 | - | - | 74 | -21.2 | 162 | 290 | V |
| | * 11.99 | 23.31 | VA1T | 39.5 | -22.3 | 40.51 | 54 | -13.49 | - | - | 162 | 290 | V |
| 2 | 2.987 | 41.36 | PKFH | 32.8 | -21.5 | 52.66 | - | - | 74 | -21.34 | 95 | 205 | V |
| 6 | 14.654 | 36.6 | PKFH | 40.5 | -23.6 | 53.5 | - | - | 74 | -20.5 | 243 | 179 | V |
| 4 | 16.813 | 35.51 | PKFH | 41.8 | -17.9 | 59.41 | - | - | 74 | -14.59 | 29 | 304 | H |

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


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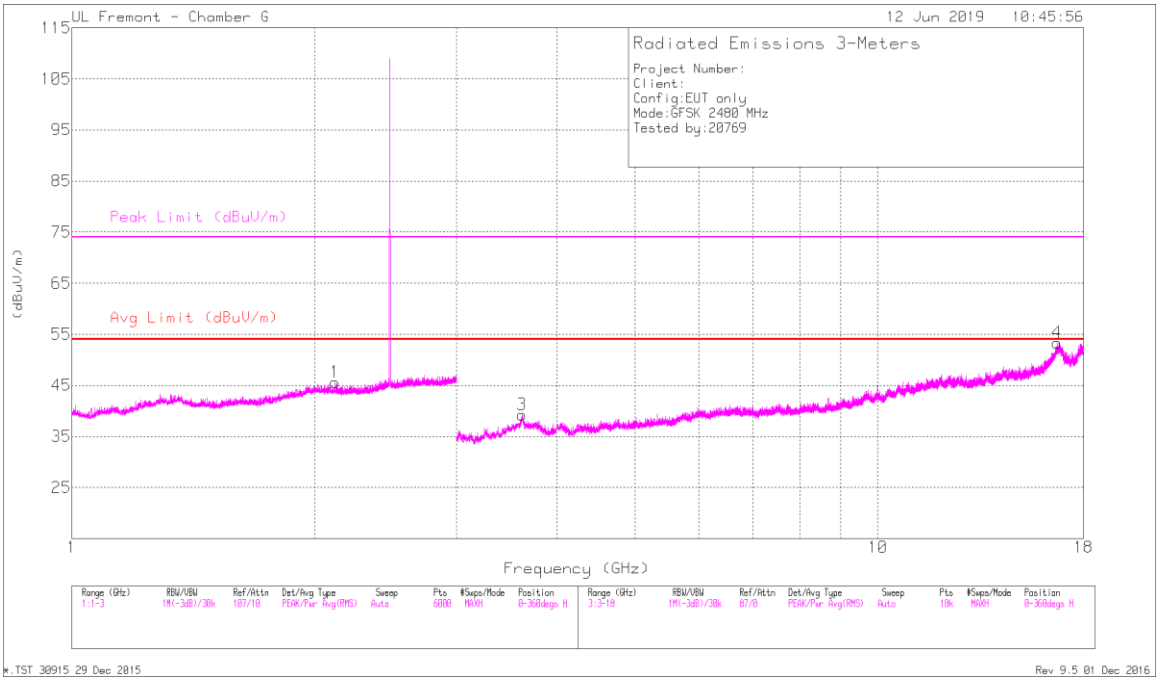
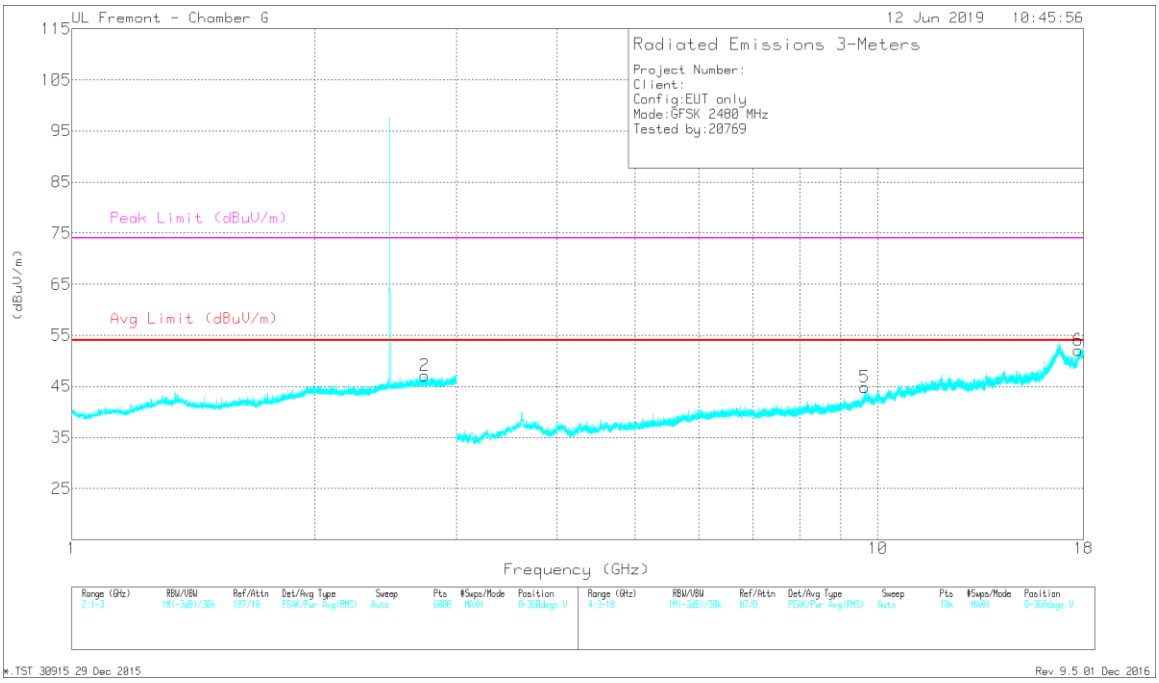
## HIGH CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 2.737 | 42.22 | PKFH | 32.7 | -22 | 52.92 | - | - | 74 | -21.08 | 208 | 163 | V |
| | * 2.74 | 30.18 | VA1T | 32.7 | -22 | 40.88 | 54 | -13.12 | - | - | 208 | 163 | V |
| 3 | * 3.617 | 40.06 | PKFH | 35.7 | -30.1 | 45.66 | - | - | 74 | -28.34 | 2 | 168 | H |
| | * 3.618 | 28.02 | VA1T | 35.7 | -30.1 | 33.62 | 54 | -20.38 | - | - | 2 | 168 | H |
| 6 | * 17.713 | 34.22 | PKFH | 41.8 | -18.4 | 57.62 | - | - | 74 | -16.38 | 0 | 180 | V |
| | * 17.711 | 22.47 | VA1T | 41.8 | -18.4 | 45.87 | 54 | -8.13 | - | - | 0 | 180 | V |
| 1 | 2.122 | 42.05 | PKFH | 31.9 | -22.4 | 51.55 | - | - | 74 | -22.45 | 69 | 311 | H |
| 5 | 9.64 | 37.18 | PKFH | 37.4 | -24.7 | 49.88 | - | - | 74 | -24.12 | 227 | 150 | V |
| 4 | 16.679 | 36.1 | PKFH | 41.9 | -18.7 | 59.3 | - | - | 74 | -14.7 | 285 | 373 | H |

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


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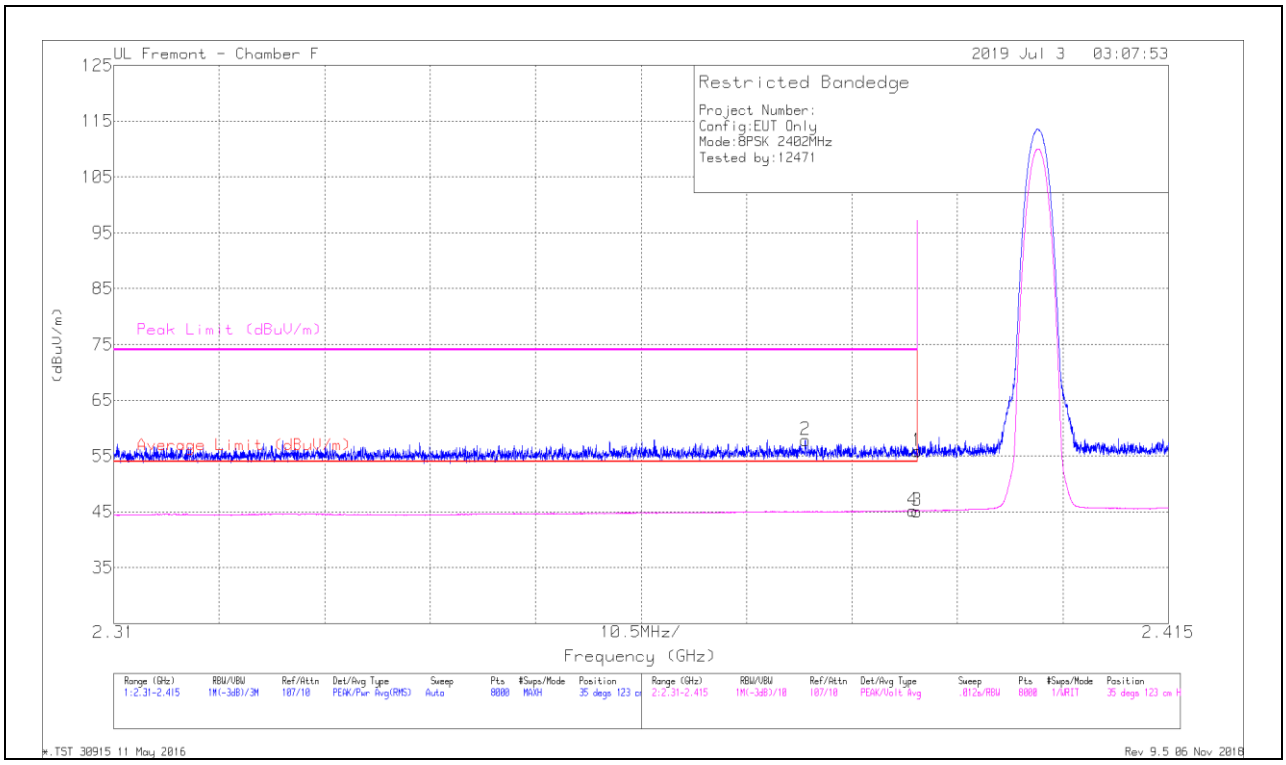
## 9.1.2 HIGH POWER ENHANCED DATA RATE 8PSK MODULATION

**Antenna 4**

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 38.33 | Pk | 32 | -14.5 | 55.83 | - | - | 74 | -18.17 | 35 | 123 | H |
| 2 | * 2.379 | 40.4 | Pk | 31.9 | -14.4 | 57.9 | - | - | 74 | -16.1 | 35 | 123 | H |
| 3 | * 2.39 | 27.64 | VA1T | 32 | -14.5 | 45.14 | 54 | -8.86 | - | - | 35 | 123 | H |
| 4 | * 2.39 | 27.72 | VA1T | 32 | -14.5 | 45.22 | 54 | -8.78 | - | - | 35 | 123 | H |

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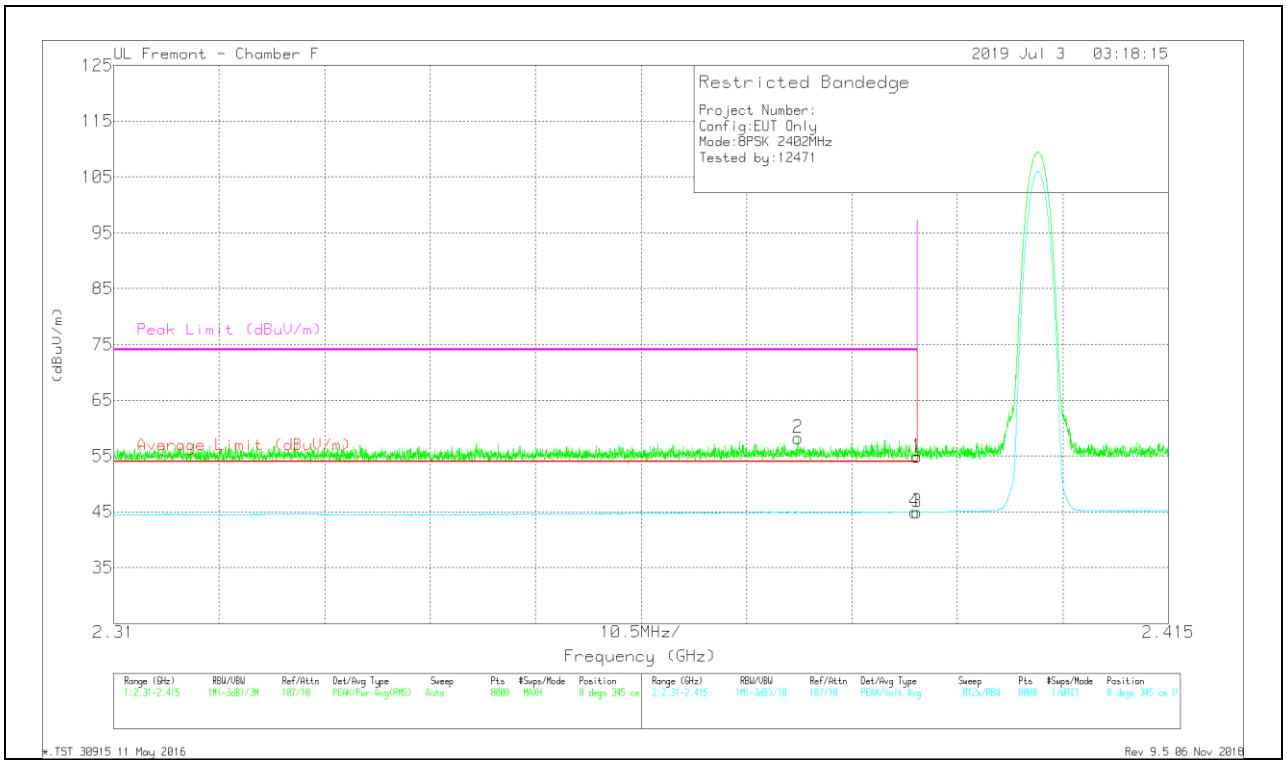
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 37.39 | Pk | 32 | -14.5 | 54.89 | - | - | 74 | -19.11 | 8 | 345 | V |
| 2 | * 2.378 | 40.79 | Pk | 31.9 | -14.4 | 58.29 | - | - | 74 | -15.71 | 8 | 345 | V |
| 3 | * 2.39 | 27.45 | VA1T | 32 | -14.5 | 44.95 | 54 | -9.05 | - | - | 8 | 345 | V |
| 4 | * 2.39 | 27.51 | VA1T | 32 | -14.5 | 45.01 | 54 | -8.99 | - | - | 8 | 345 | V |

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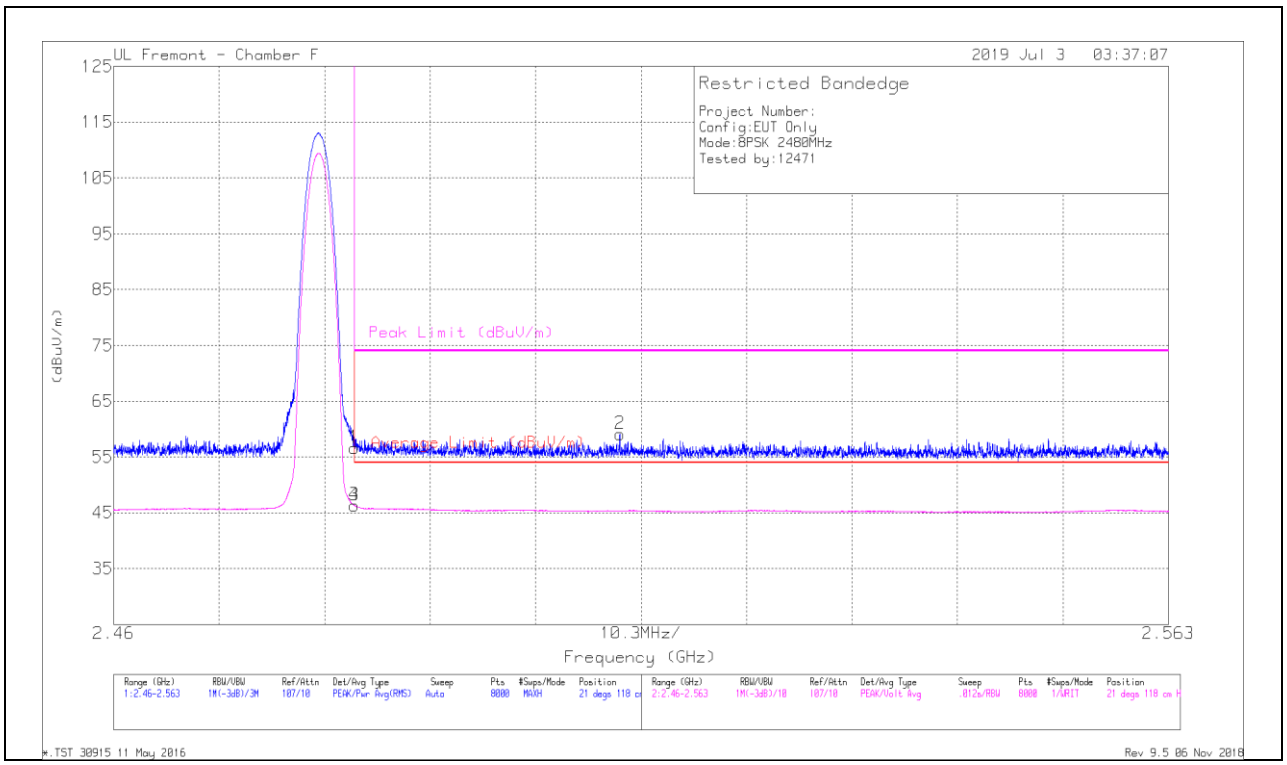
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 38.98 | Pk | 32.4 | -14.7 | 56.68 | - | - | 74 | -17.32 | 21 | 118 | H |
| 2 | 2.509 | 41.39 | Pk | 32.4 | -14.7 | 59.09 | - | - | 74 | -14.91 | 21 | 118 | H |
| 3 | * 2.484 | 28.57 | VA1T | 32.4 | -14.7 | 46.27 | 54 | -7.73 | - | - | 21 | 118 | H |
| 4 | * 2.484 | 28.58 | VA1T | 32.4 | -14.7 | 46.28 | 54 | -7.72 | - | - | 21 | 118 | H |

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



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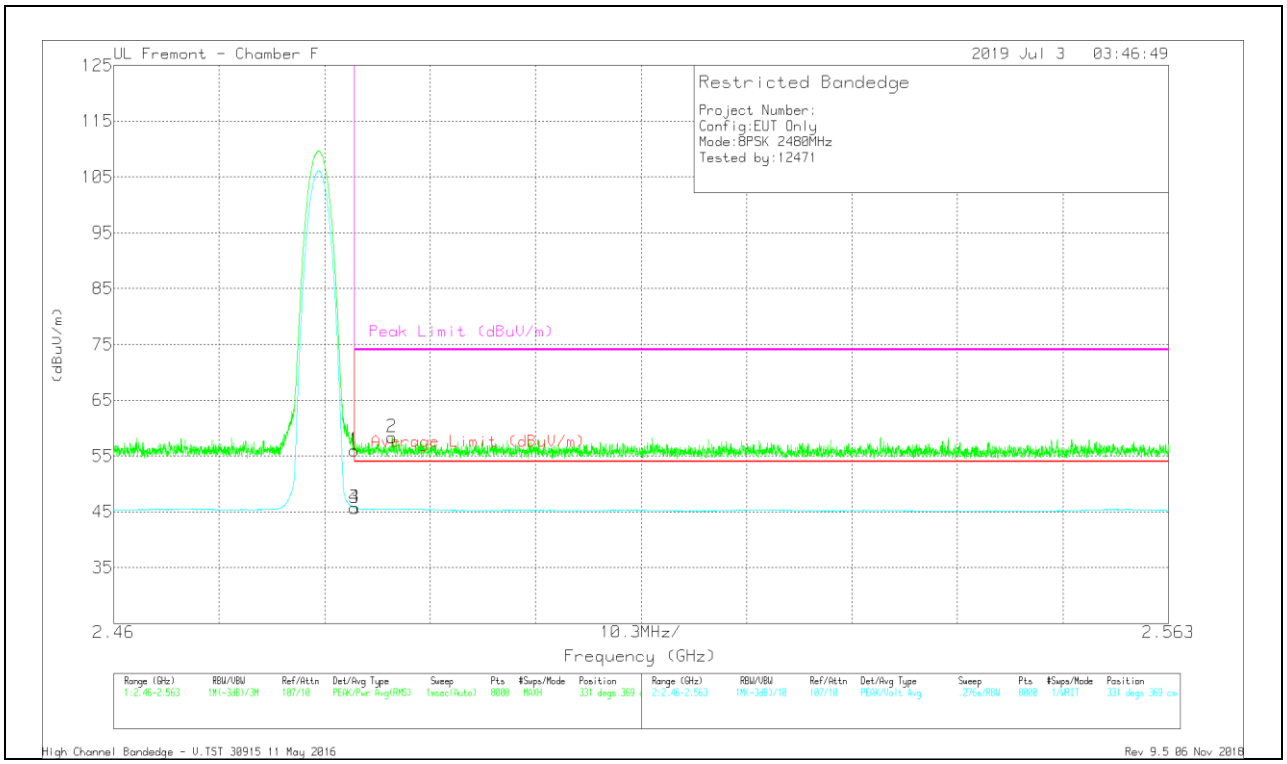
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 38.29 | Pk | 32.4 | -14.7 | 55.99 | - | - | 74 | -18.01 | 331 | 369 | V |
| 2 | * 2.487 | 40.68 | Pk | 32.3 | -14.6 | 58.38 | - | - | 74 | -15.62 | 331 | 369 | V |
| 3 | * 2.484 | 28 | VA1T | 32.4 | -14.7 | 45.7 | 54 | -8.3 | - | - | 331 | 369 | V |
| 4 | * 2.484 | 27.98 | VA1T | 32.4 | -14.7 | 45.68 | 54 | -8.32 | - | - | 331 | 369 | V |

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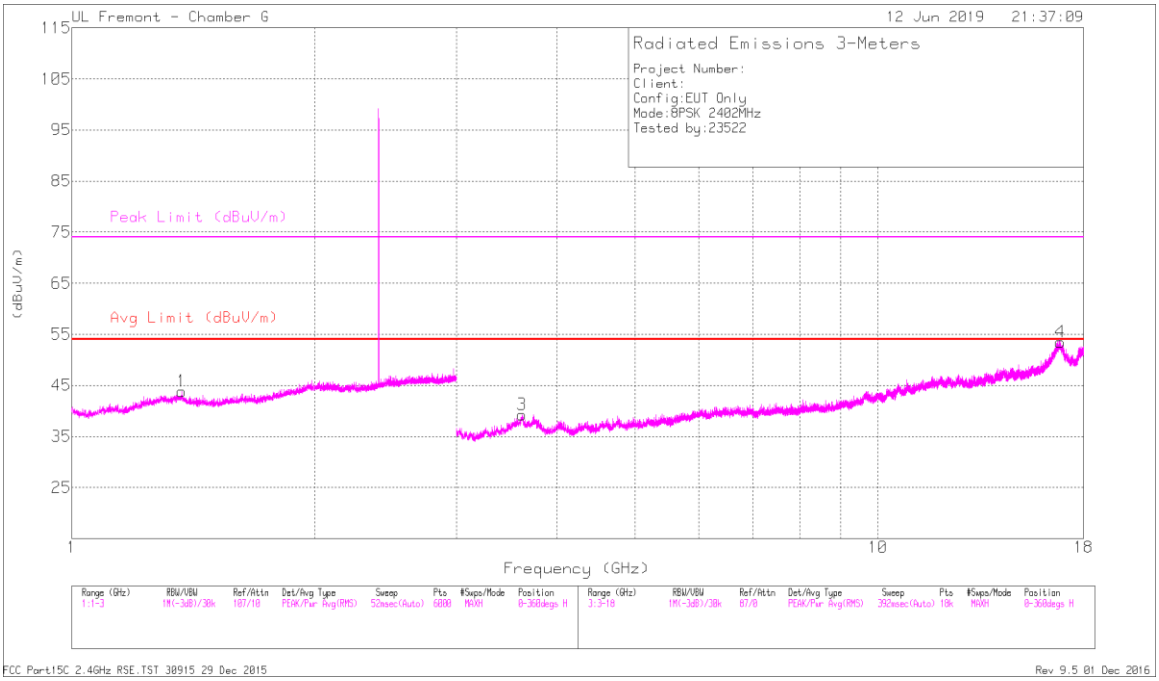
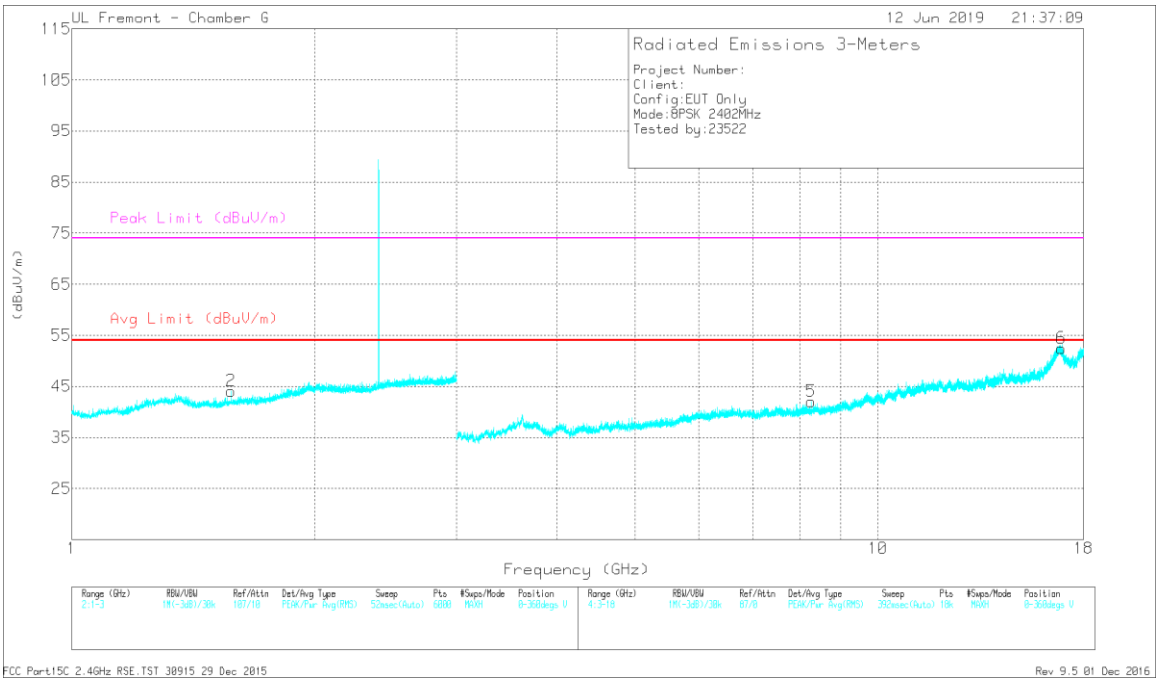
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.372 | 42.56 | PKFH | 29.8 | -23.2 | 49.16 | - | - | 74 | -24.84 | 12 | 135 | H |
| | * 1.369 | 30.26 | VA1T | 30 | -23.2 | 37.06 | 54 | -16.94 | - | - | 12 | 135 | H |
| 2 | * 1.576 | 42.27 | PKFH | 27.9 | -21.4 | 48.77 | - | - | 74 | -25.23 | 138 | 180 | V |
| | * 1.576 | 30.01 | VA1T | 27.9 | -21.4 | 36.51 | 54 | -17.49 | - | - | 138 | 180 | V |
| 3 | * 3.62 | 40.43 | PKFH | 35.7 | -30 | 46.13 | - | - | 74 | -27.87 | 300 | 242 | H |
| | * 3.618 | 27.94 | VA1T | 35.7 | -30.1 | 33.54 | 54 | -20.46 | - | - | 300 | 242 | H |
| 5 | * 8.272 | 38 | PKFH | 36.1 | -27.1 | 47 | - | - | 74 | -27 | 211 | 318 | V |
| | * 8.272 | 26.07 | VA1T | 36.1 | -27.1 | 35.07 | 54 | -18.93 | - | - | 211 | 318 | V |
| 4 | 16.848 | 34.5 | PKFH | 41.7 | -17.7 | 58.5 | - | - | 74 | -15.5 | 0 | 229 | H |
| 6 | 16.893 | 35.69 | PKFH | 41.6 | -18.5 | 58.79 | - | - | 74 | -15.21 | 291 | 263 | V |

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


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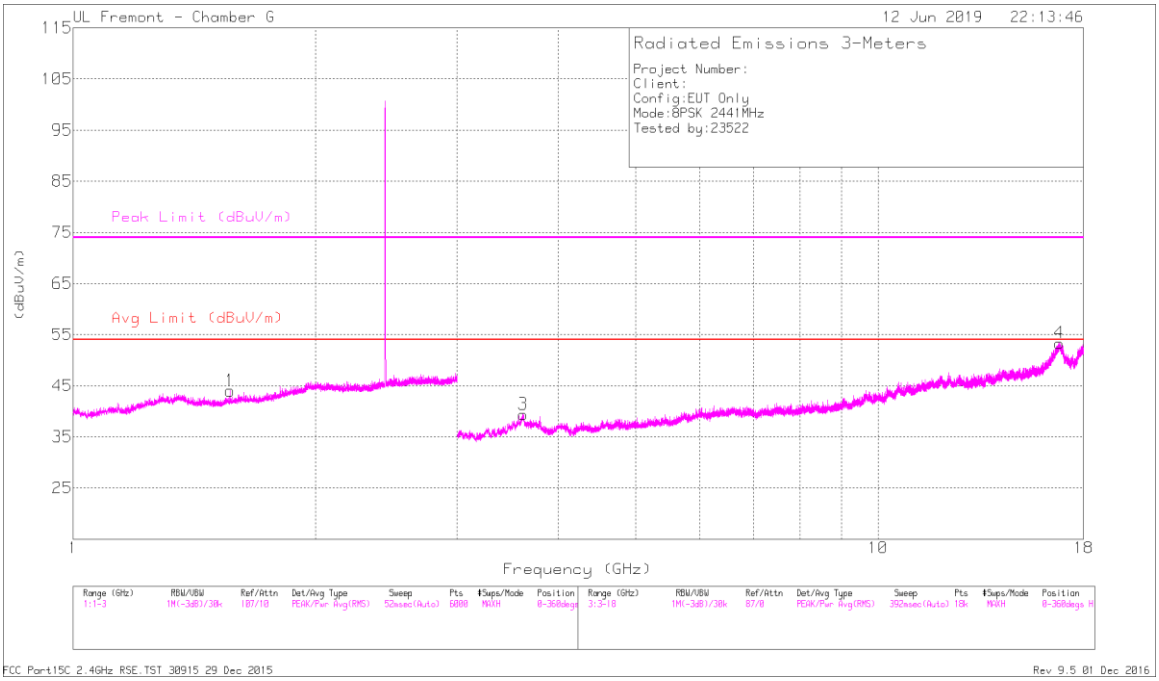
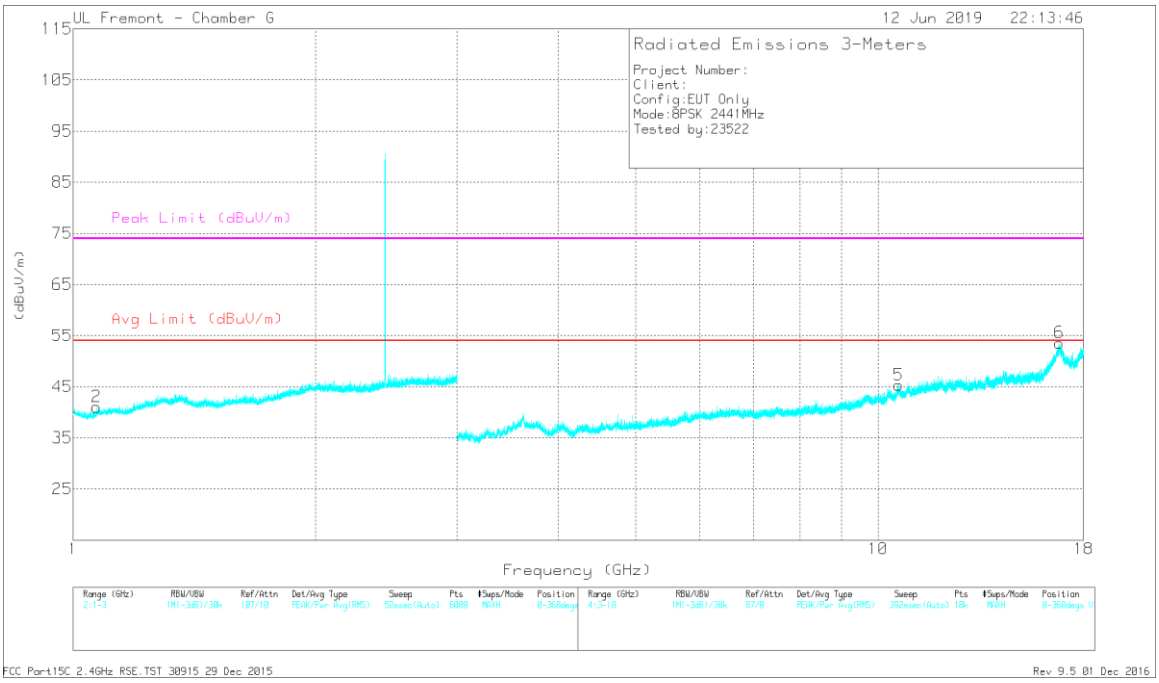
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.565 | 42.36 | PKFH | 27.8 | -21.4 | 48.76 | - | - | 74 | -25.24 | 13 | 101 | H |
| | * 1.567 | 30.16 | VA1T | 27.8 | -21.4 | 36.56 | 54 | -17.44 | - | - | 13 | 101 | H |
| 2 | * 1.069 | 42.52 | PKFH | 27.3 | -23.9 | 45.92 | - | - | 74 | -28.08 | 147 | 166 | V |
| | * 1.067 | 30.9 | VA1T | 27.3 | -23.9 | 34.3 | 54 | -19.7 | - | - | 147 | 166 | V |
| 3 | * 3.626 | 39.68 | PKFH | 35.3 | -29.8 | 45.18 | - | - | 74 | -28.82 | 285 | 215 | H |
| | * 3.625 | 28.23 | VA1T | 35.5 | -29.8 | 33.93 | 54 | -20.07 | - | - | 285 | 215 | H |
| 5 | * 10.603 | 35.97 | PKFH | 38.2 | -23 | 51.17 | - | - | 74 | -22.83 | 116 | 365 | V |
| | * 10.604 | 23.86 | VA1T | 38.2 | -23 | 39.06 | 54 | -14.94 | - | - | 116 | 365 | V |
| 4 | 16.794 | 35.41 | PKFH | 41.7 | -17.4 | 59.71 | - | - | 74 | -14.29 | 51 | 310 | H |
| 6 | 16.794 | 34.22 | PKFH | 41.8 | -17.4 | 58.62 | - | - | 74 | -15.38 | 57 | 322 | V |

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


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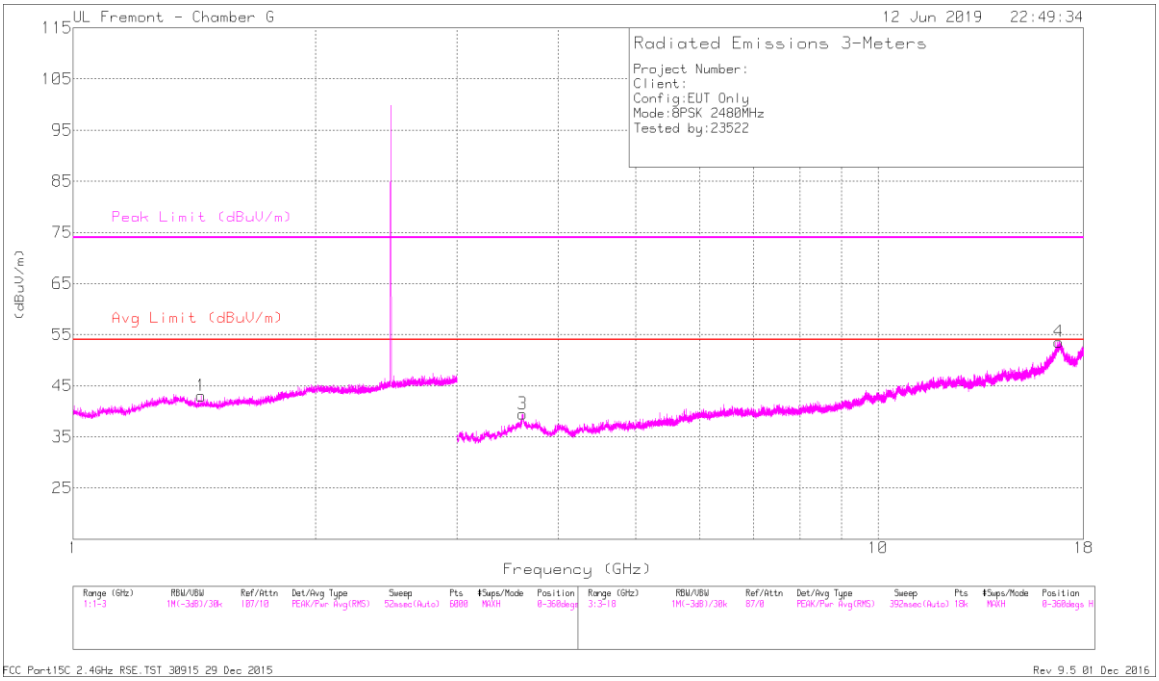
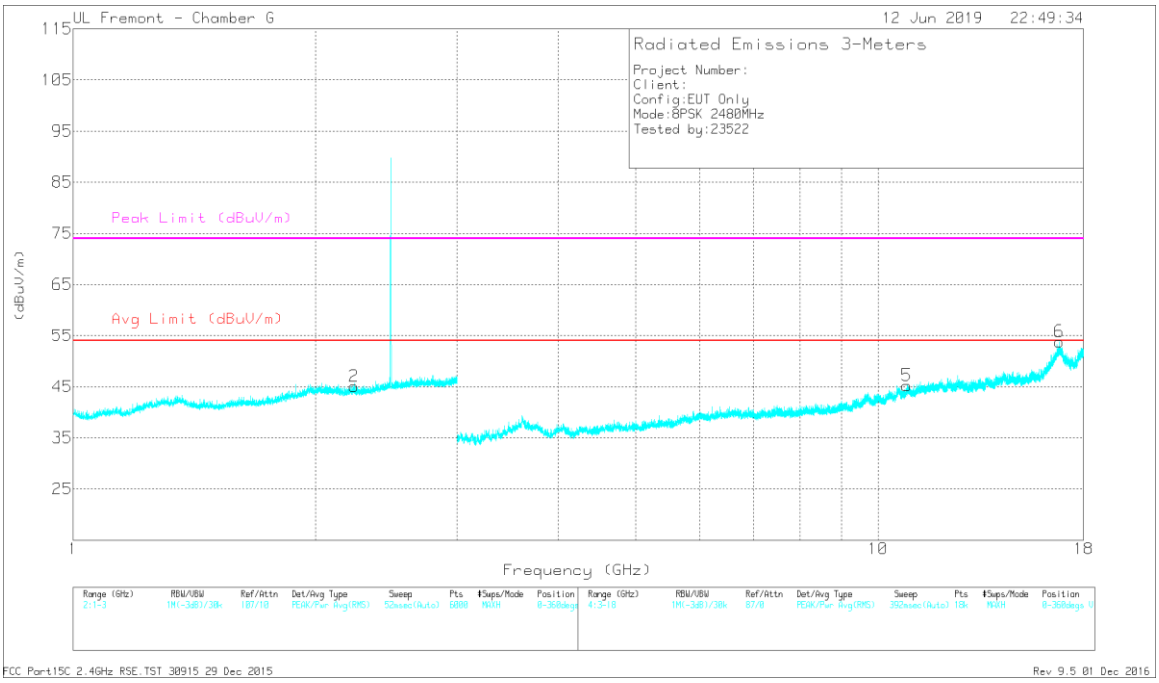
## HIGH CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.442 | 41.81 | PKFH | 28.6 | -22.6 | 47.81 | - | - | 74 | -26.19 | 14 | 144 | H |
| | * 1.443 | 29.94 | VA1T | 28.6 | -22.6 | 35.94 | 54 | -18.06 | - | - | 14 | 144 | H |
| 2 | * 2.234 | 41.4 | PKFH | 31.9 | -22.4 | 50.9 | - | - | 74 | -23.1 | 56 | 188 | V |
| | * 2.234 | 29.3 | VA1T | 31.9 | -22.4 | 38.8 | 54 | -15.2 | - | - | 56 | 188 | V |
| 3 | * 3.613 | 39.98 | PKFH | 35.4 | -30.2 | 45.18 | - | - | 74 | -28.82 | 173 | 217 | H |
| | * 3.615 | 28.12 | VA1T | 35.5 | -30.1 | 33.52 | 54 | -20.48 | - | - | 173 | 217 | H |
| 5 | * 10.86 | 36.69 | PKFH | 38.3 | -23.4 | 51.59 | - | - | 74 | -22.41 | 337 | 254 | V |
| | * 10.859 | 24.08 | VA1T | 38.3 | -23.5 | 38.88 | 54 | -15.12 | - | - | 337 | 254 | V |
| 4 | 16.778 | 36.11 | PKFH | 41.7 | -17.7 | 60.11 | - | - | 74 | -13.89 | 238 | 101 | H |
| 6 | 16.811 | 35.33 | PKFH | 41.8 | -17.9 | 59.23 | - | - | 74 | -14.77 | 358 | 300 | V |

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


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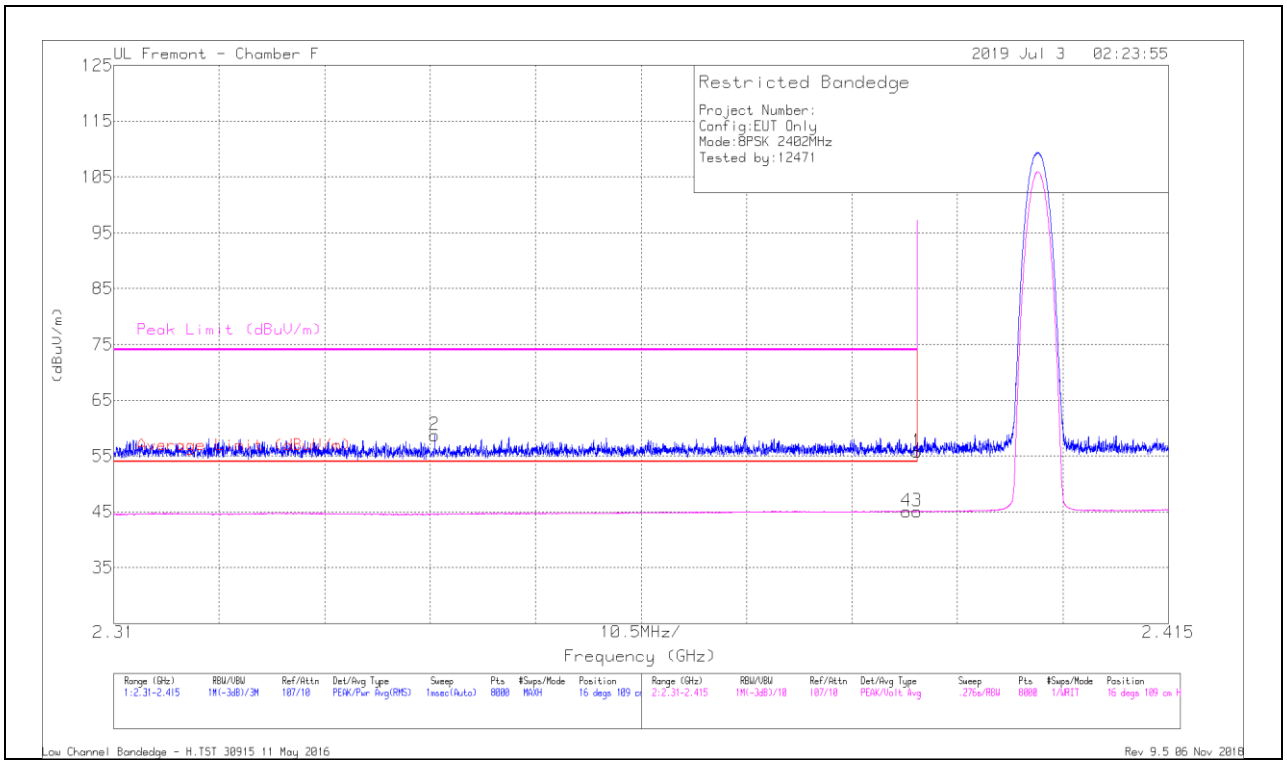
**Antenna 3**

## BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 38.24 | Pk | 32 | -14.5 | 55.74 | - | - | 74 | -18.26 | 16 | 109 | H |
| 2 | * 2.342 | 41.61 | Pk | 31.6 | -14.5 | 58.71 | - | - | 74 | -15.29 | 16 | 109 | H |
| 3 | * 2.39 | 27.59 | VA1T | 32 | -14.5 | 45.09 | 54 | -8.91 | - | - | 16 | 109 | H |
| 4 | * 2.389 | 27.6 | VA1T | 32 | -14.5 | 45.1 | 54 | -8.9 | - | - | 16 | 109 | H |

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



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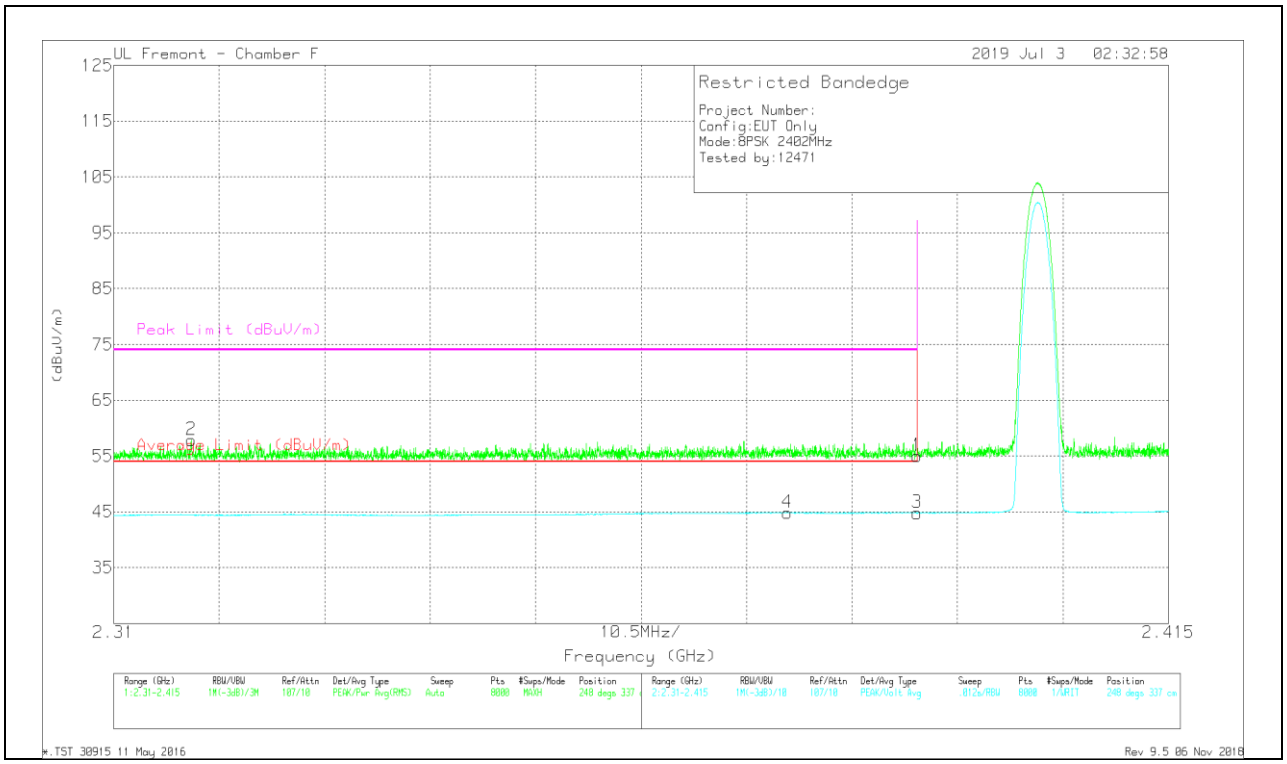
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 37.56 | Pk | 32 | -14.5 | 55.06 | - | - | 74 | -18.94 | 248 | 337 | V |
| 2 | * 2.318 | 40.75 | Pk | 31.7 | -14.6 | 57.85 | - | - | 74 | -16.15 | 248 | 337 | V |
| 3 | * 2.39 | 27.27 | VA1T | 32 | -14.5 | 44.77 | 54 | -9.23 | - | - | 248 | 337 | V |
| 4 | * 2.377 | 27.37 | VA1T | 31.9 | -14.4 | 44.87 | 54 | -9.13 | - | - | 248 | 337 | V |

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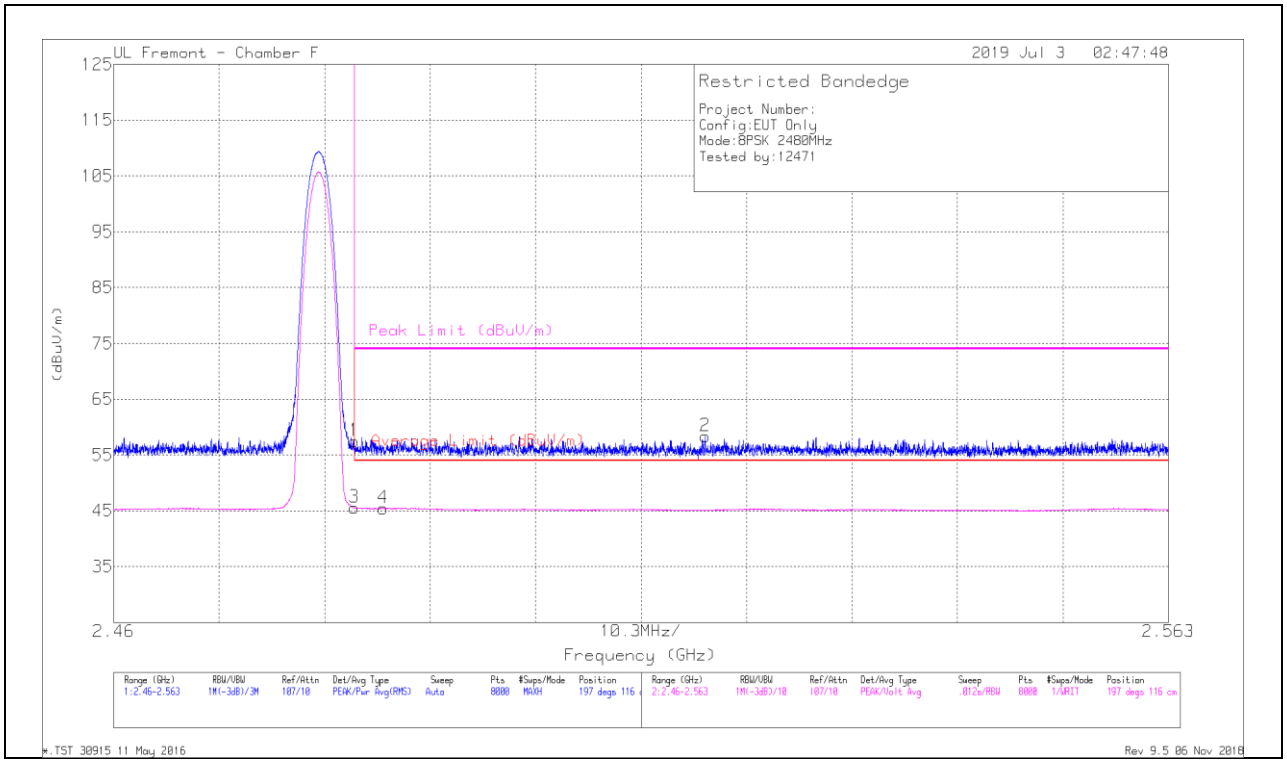
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.76 | Pk | 32.4 | -14.7 | 57.46 | - | - | 74 | -16.54 | 197 | 116 | H |
| 2 | 2.518 | 40.65 | Pk | 32.4 | -14.7 | 58.35 | - | - | 74 | -15.65 | 197 | 116 | H |
| 3 | * 2.484 | 27.83 | VA1T | 32.4 | -14.7 | 45.53 | 54 | -8.47 | - | - | 197 | 116 | H |
| 4 | * 2.486 | 27.79 | VA1T | 32.3 | -14.6 | 45.49 | 54 | -8.51 | - | - | 197 | 116 | H |

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



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## VERTICAL RESULT

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 37.62 | Pk | 32.4 | -14.7 | 55.32 | - | - | 74 | -18.68 | 223 | 243 | V |
| 2 | * 2.493 | 40.8 | Pk | 32.4 | -14.7 | 58.5 | - | - | 74 | -15.5 | 223 | 243 | V |
| 3 | * 2.484 | 27.4 | VA1T | 32.4 | -14.7 | 45.1 | 54 | -8.9 | - | - | 223 | 243 | V |
| 4 | 2.558 | 27.47 | VA1T | 32.4 | -14.5 | 45.37 | 54 | -8.63 | - | - | 223 | 243 | V |

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


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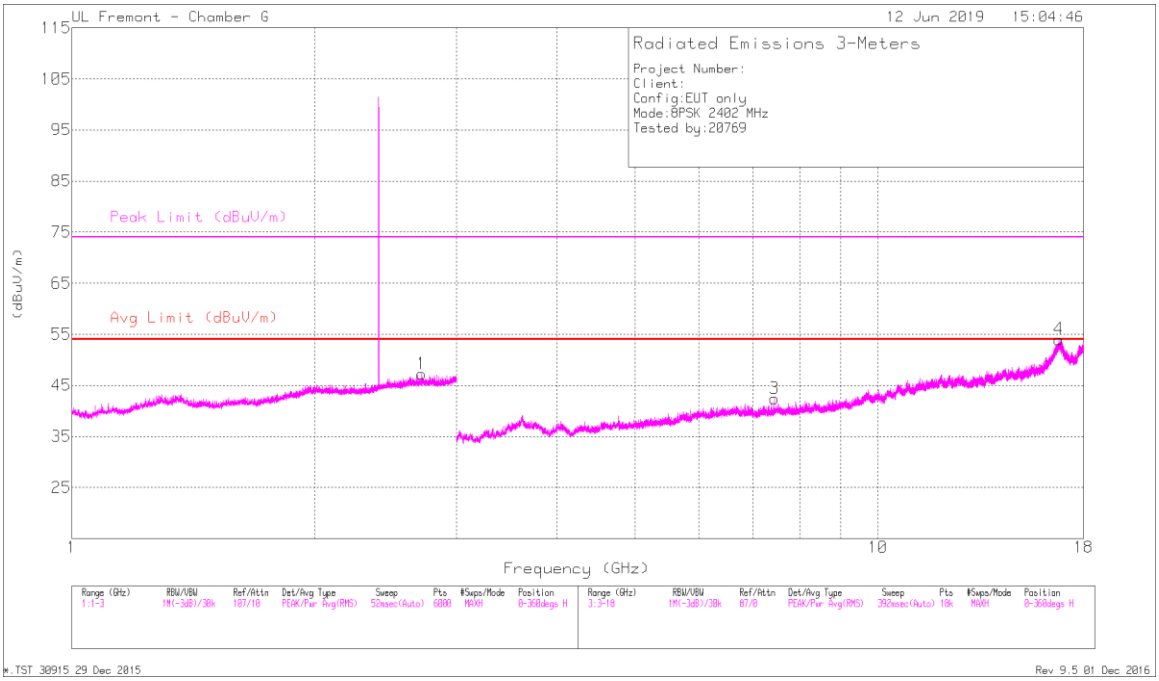
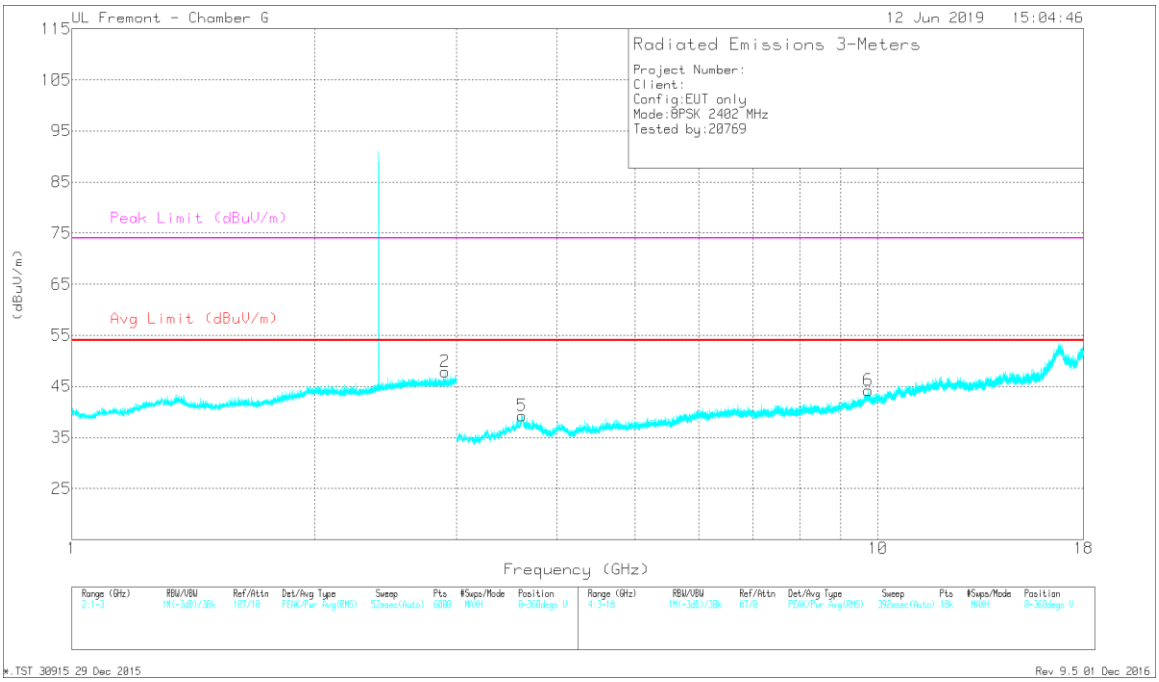
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.717 | 40.81 | PKFH | 32.7 | -22 | 51.51 | - | - | 74 | -22.49 | 170 | 149 | H |
| | * 2.72 | 29.4 | VA1T | 32.7 | -22 | 40.1 | 54 | -13.9 | - | - | 170 | 149 | H |
| 3 | * 7.44 | 38.2 | PKFH | 36 | -27.8 | 46.4 | - | - | 74 | -27.6 | 344 | 293 | H |
| | * 7.439 | 26.9 | VA1T | 36 | -27.8 | 35.1 | 54 | -18.9 | - | - | 344 | 293 | H |
| 5 | * 3.616 | 40.94 | PKFH | 35.6 | -30.1 | 46.44 | - | - | 74 | -27.56 | 13 | 285 | V |
| | * 3.617 | 28.58 | VA1T | 35.7 | -30.1 | 34.18 | 54 | -19.82 | - | - | 13 | 285 | V |
| 2 | 2.902 | 41.77 | PKFH | 32.6 | -21.8 | 52.57 | - | - | 74 | -21.43 | 348 | 216 | V |
| 6 | 9.731 | 35.92 | PKFH | 37.4 | -24.4 | 48.92 | - | - | 74 | -25.08 | 5 | 129 | V |
| 4 | 16.785 | 35.53 | PKFH | 41.7 | -17.5 | 59.73 | - | - | 74 | -14.27 | 255 | 136 | H |

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


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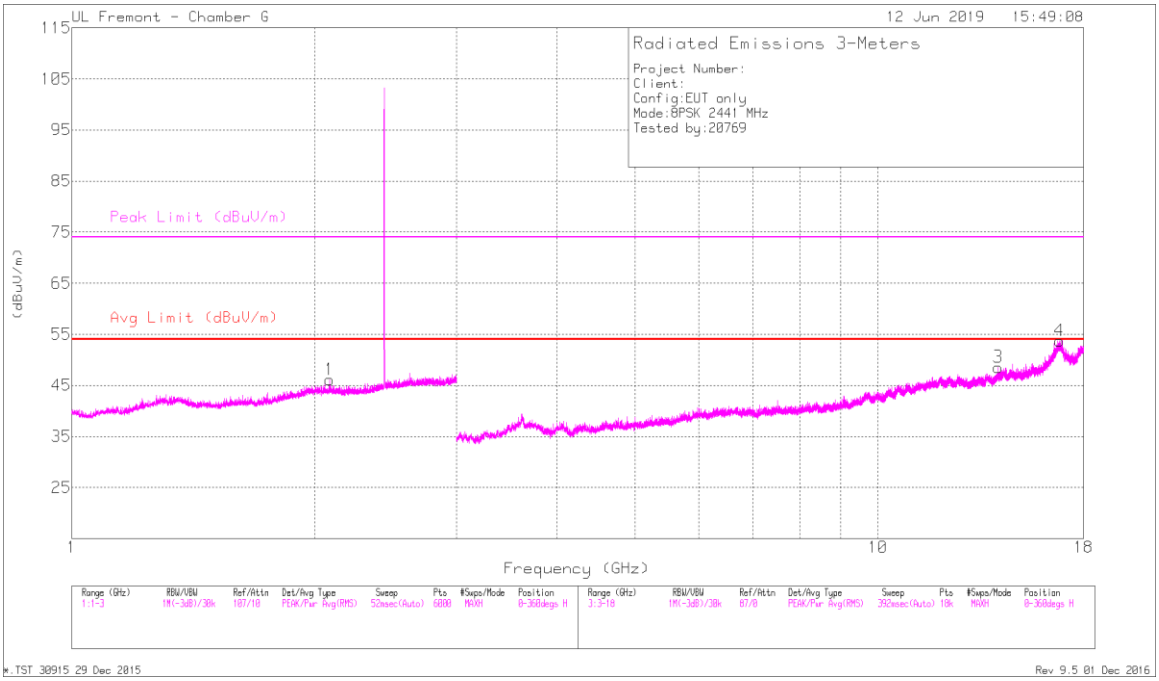
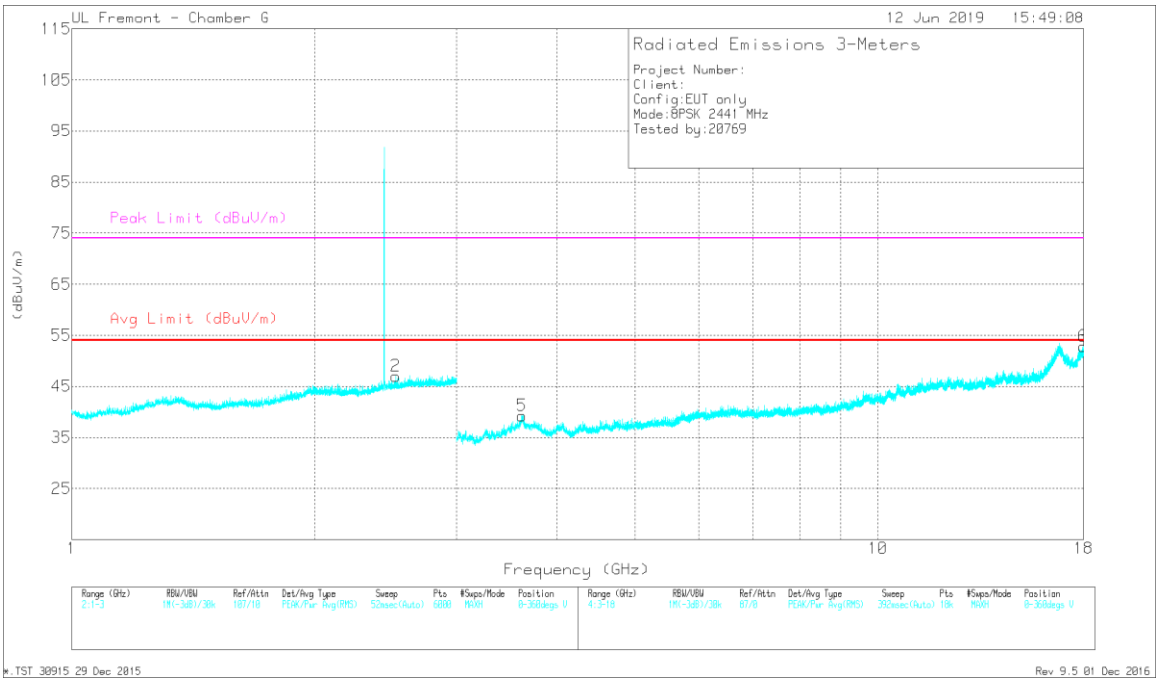
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | * 3.618 | 40.22 | PKFH | 35.7 | -30.1 | 45.82 | - | - | 74 | -28.18 | 337 | 288 | V |
| | * 3.62 | 28.26 | VA1T | 35.7 | -30 | 33.96 | 54 | -20.04 | - | - | 337 | 288 | V |
| 6 | * 17.984 | 33.8 | PKFH | 42.6 | -17.7 | 58.7 | - | - | 74 | -15.3 | 232 | 392 | V |
| | * 17.984 | 21.65 | VA1T | 42.6 | -17.7 | 46.55 | 54 | -7.45 | - | - | 232 | 392 | V |
| 1 | 2.087 | 41.39 | PKFH | 31.9 | -22.5 | 50.79 | - | - | 74 | -23.21 | 46 | 306 | H |
| 2 | 2.523 | 42.08 | PKFH | 32.4 | -22.1 | 52.38 | - | - | 74 | -21.62 | 224 | 308 | V |
| 3 | 14.1 | 37.34 | PKFH | 39.7 | -23.2 | 53.84 | - | - | 74 | -20.16 | 324 | 102 | H |
| 4 | 16.795 | 35.51 | PKFH | 41.8 | -17.4 | 59.91 | - | - | 74 | -14.09 | 167 | 155 | H |

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


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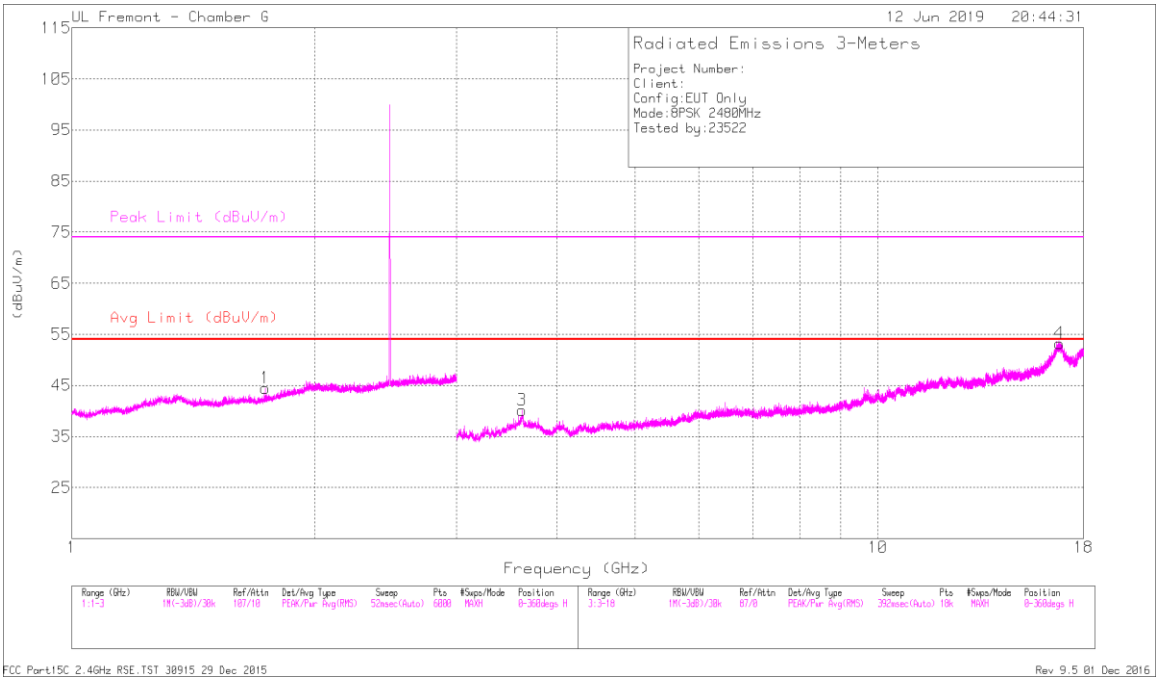
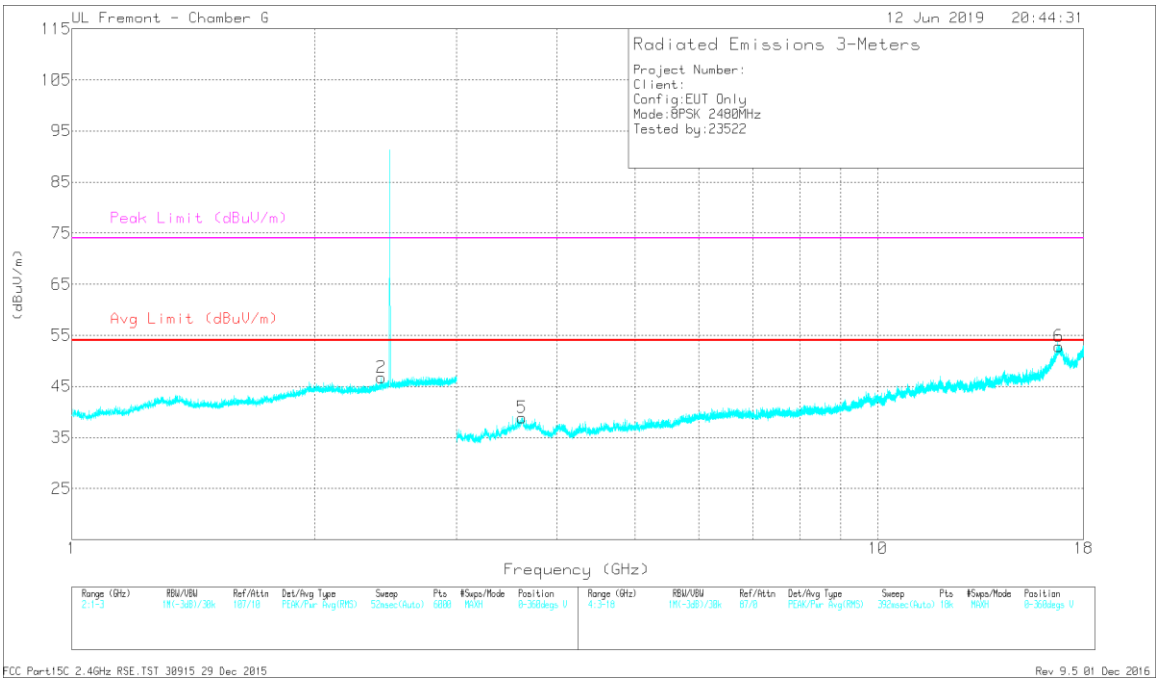
## HIGH CHANNEL RESULTS




## HORIZONTAL




## VERTICAL



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | * 3.62 | 39.66 | PKFH | 35.7 | -30 | 45.36 | - | - | 74 | -28.64 | 240 | 235 | H |
| | * 3.619 | 28.4 | VA1T | 35.7 | -30 | 34.1 | 54 | -19.9 | - | - | 240 | 235 | H |
| 5 | * 3.618 | 39.81 | PKFH | 35.7 | -30.1 | 45.41 | - | - | 74 | -28.59 | 307 | 255 | V |
| | * 3.619 | 28.14 | VA1T | 35.7 | -30 | 33.84 | 54 | -20.16 | - | - | 307 | 255 | V |
| 1 | 1.738 | 40.54 | PKFH | 29.3 | -22.1 | 47.74 | - | - | 74 | -26.26 | 49 | 115 | H |
| 2 | 2.421 | 41.3 | PKFH | 32.2 | -22.2 | 51.3 | - | - | 74 | -22.7 | 168 | 183 | V |
| 6 | 16.785 | 34.85 | PKFH | 41.7 | -17.5 | 59.05 | - | - | 74 | -14.95 | 136 | 284 | V |
| 4 | 16.806 | 34.52 | PKFH | 41.7 | -17.7 | 58.52 | - | - | 74 | -15.48 | 117 | 341 | H |

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


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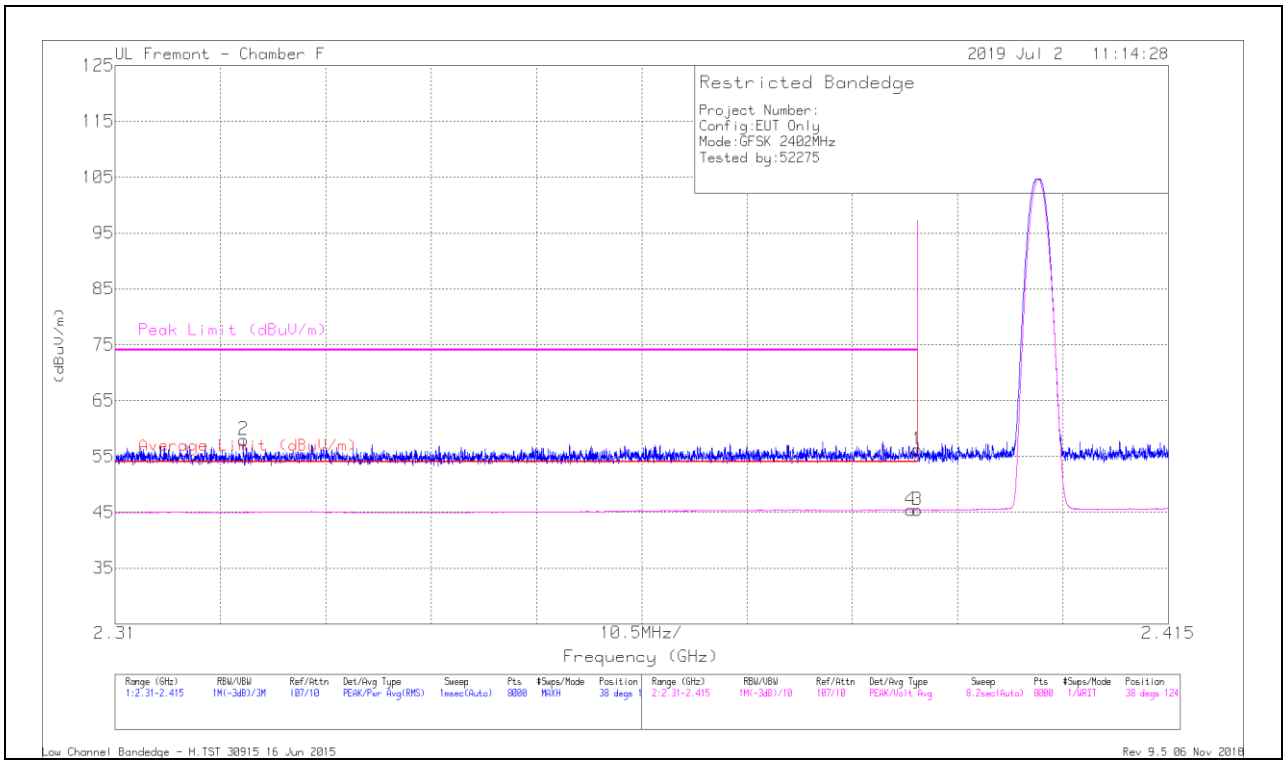
## 9.1.3 LOW POWER BASIC DATA RATE GFSK MODULATION

**Antenna 4**

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 38.73 | Pk | 32 | -14.5 | 56.23 | - | - | 74 | -17.77 | 38 | 124 | H |
| 2 | * 2.323 | 40.88 | Pk | 31.7 | -14.6 | 57.98 | - | - | 74 | -16.02 | 38 | 124 | H |
| 3 | * 2.39 | 27.89 | VA1T | 32 | -14.5 | 45.39 | 54 | -8.61 | - | - | 38 | 124 | H |
| 4 | * 2.389 | 27.94 | VA1T | 32 | -14.5 | 45.44 | 54 | -8.56 | - | - | 38 | 124 | H |

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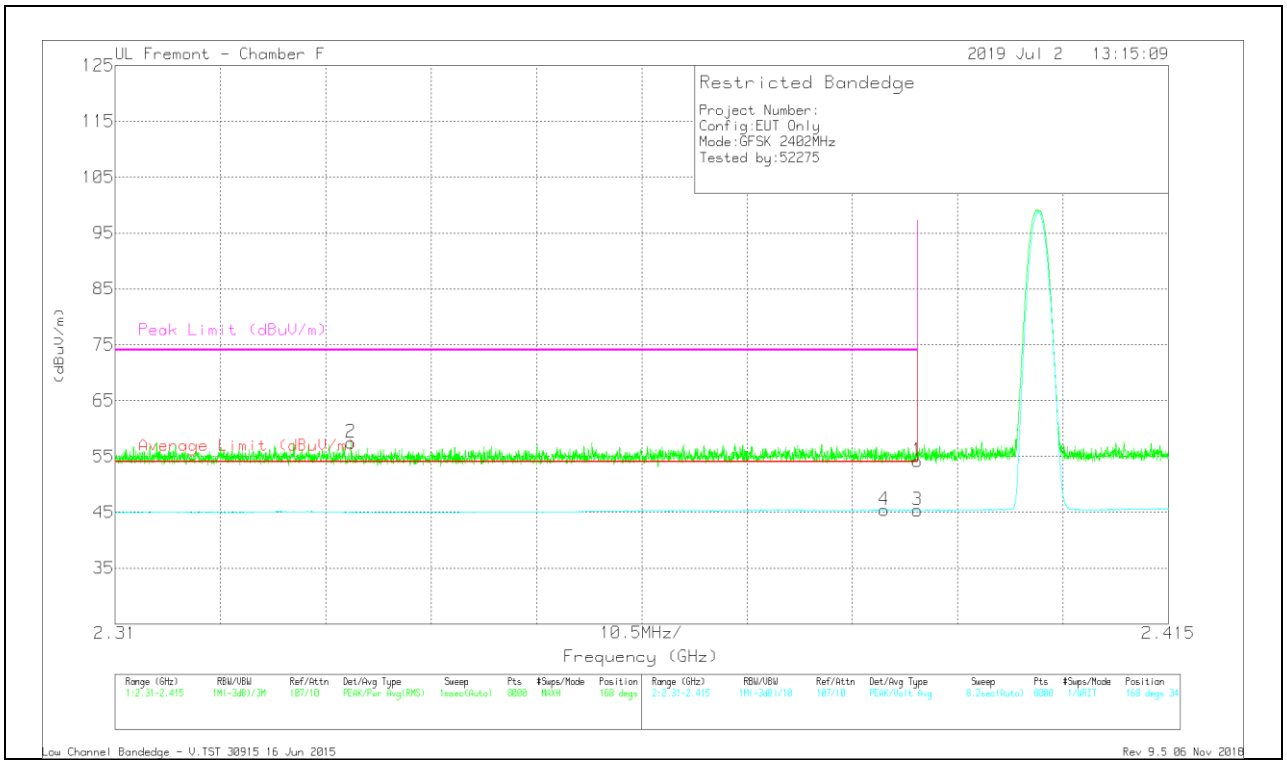
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 36.71 | Pk | 32 | -14.5 | 54.21 | - | - | 74 | -19.79 | 168 | 341 | V |
| 2 | * 2.334 | 40.39 | Pk | 31.6 | -14.5 | 57.49 | - | - | 74 | -16.51 | 168 | 341 | V |
| 3 | * 2.39 | 27.87 | VA1T | 32 | -14.5 | 45.37 | 54 | -8.63 | - | - | 168 | 341 | V |
| 4 | * 2.387 | 28.03 | VA1T | 31.9 | -14.5 | 45.43 | 54 | -8.57 | - | - | 168 | 341 | V |

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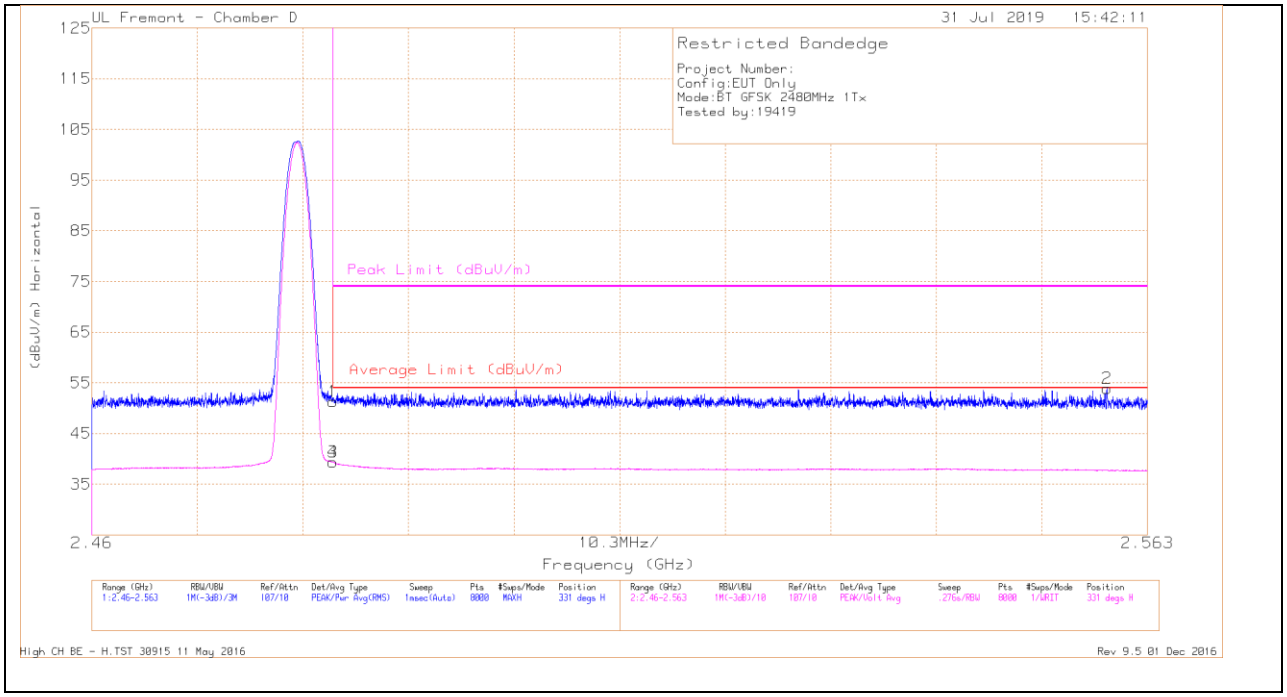
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.49 | Pk | 32.4 | -20.6 | 51.29 | - | - | 74 | -22.71 | 331 | 219 | H |
| 3 | * 2.484 | 27.56 | VA1T | 32.4 | -20.6 | 39.36 | 54 | -14.64 | - | - | 331 | 219 | H |
| 4 | * 2.484 | 27.57 | VA1T | 32.4 | -20.6 | 39.37 | 54 | -14.63 | - | - | 331 | 219 | H |
| 2 | 2.559 | 42.15 | Pk | 32.1 | -20.4 | 53.85 | - | - | 74 | -20.15 | 331 | 219 | H |

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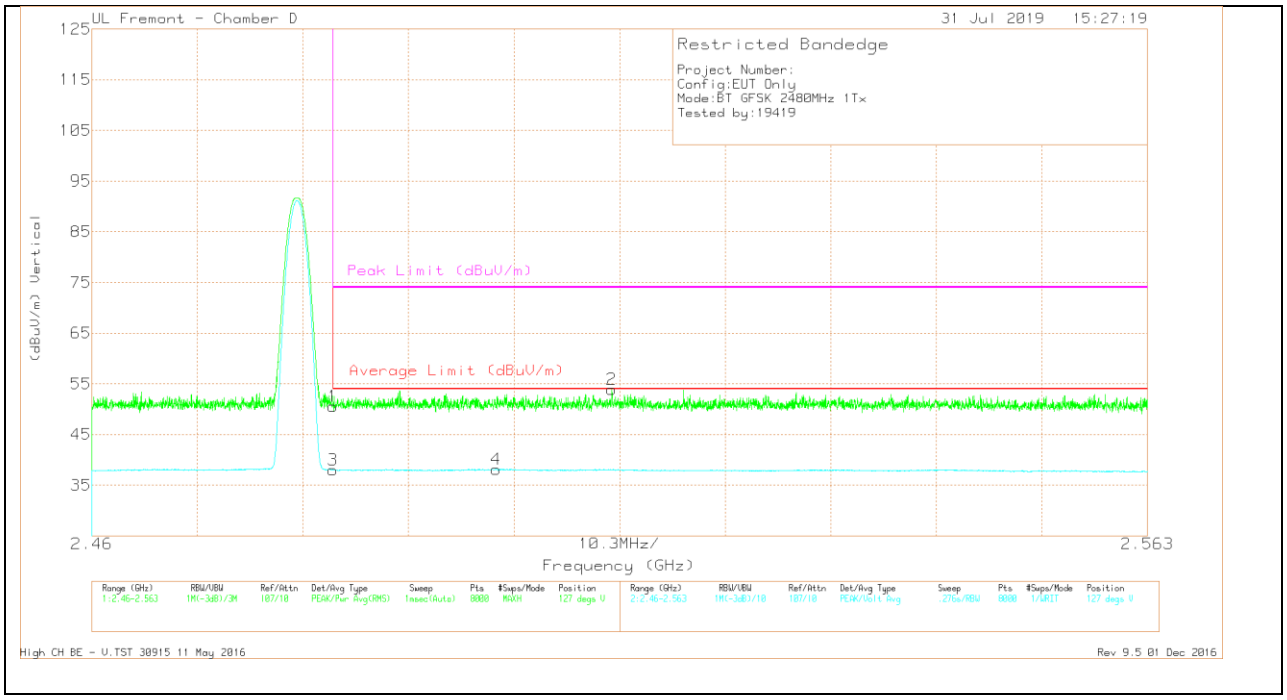
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 38.7 | Pk | 32.4 | -20.6 | 50.5 | - | - | 74 | -23.5 | 127 | 344 | V |
| 3 | * 2.484 | 26.21 | VA1T | 32.4 | -20.6 | 38.01 | 54 | -15.99 | - | - | 127 | 344 | V |
| 4 | * 2.499 | 26.35 | VA1T | 32.3 | -20.5 | 38.15 | 54 | -15.85 | - | - | 127 | 344 | V |
| 2 | 2.511 | 41.96 | Pk | 32.3 | -20.4 | 53.86 | - | - | 74 | -20.14 | 127 | 344 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration
High CH BE - V.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016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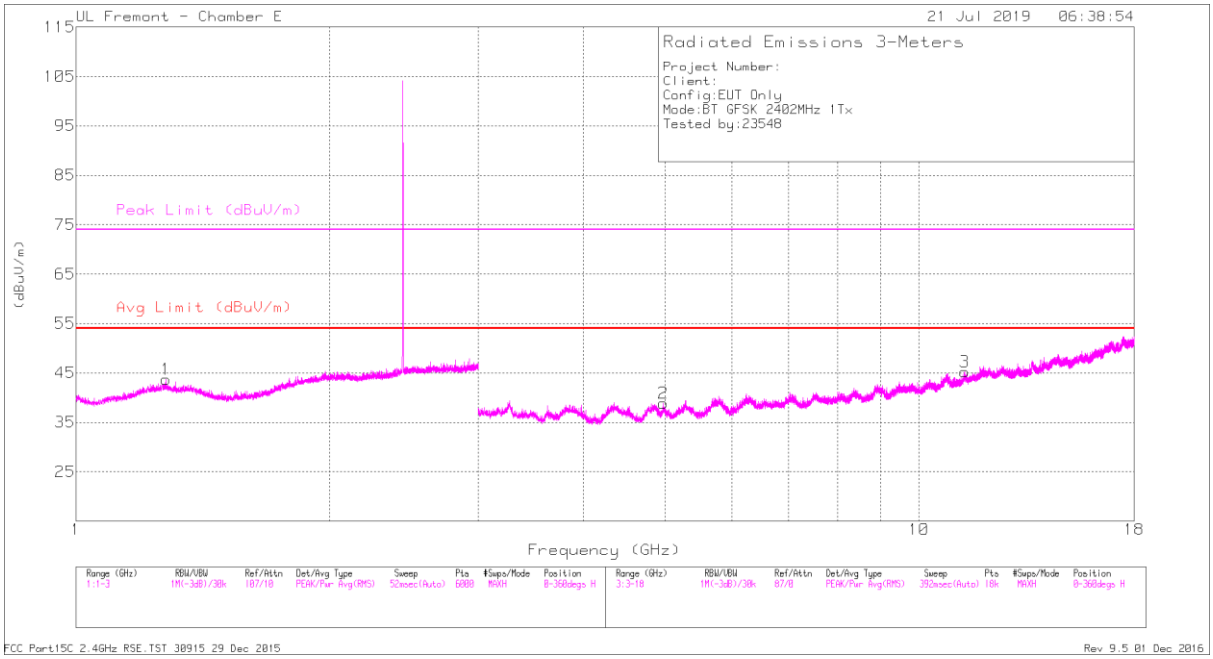
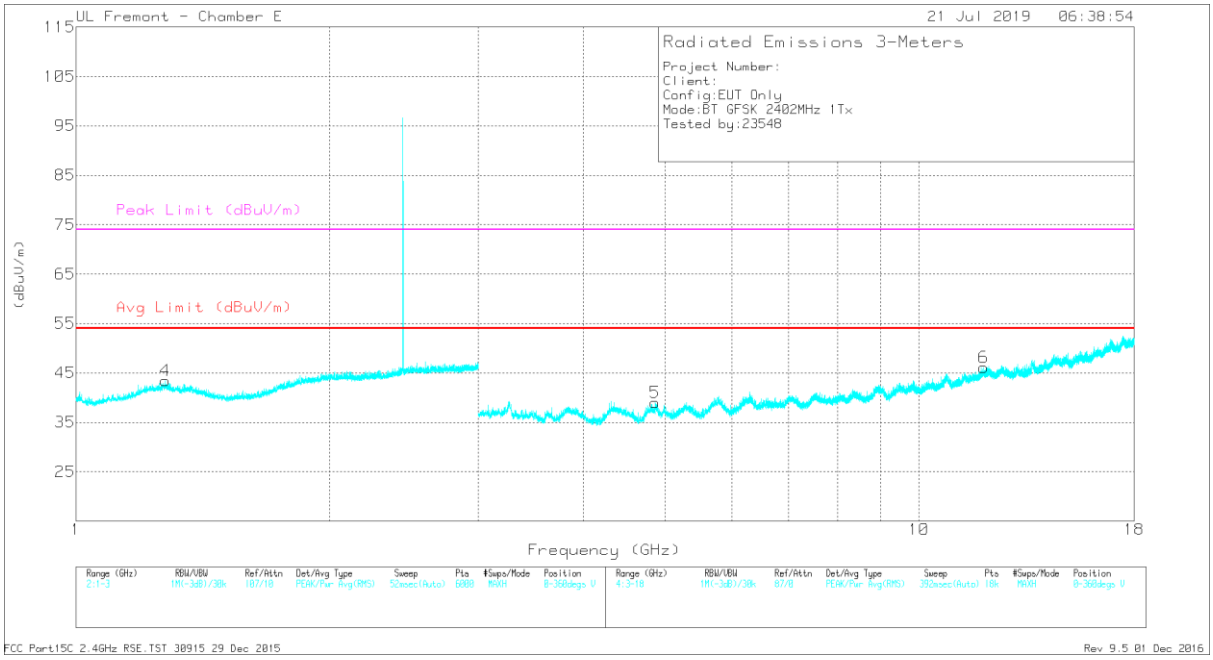
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.277 | 44.53 | PKFH | 30.2 | -26.2 | 48.53 | - | - | 74 | -25.47 | 245 | 326 | H |
| | * 1.28 | 32.74 | VA1T | 30.1 | -26.2 | 36.64 | 54 | -17.36 | - | - | 245 | 326 | H |
| 4 | * 1.277 | 45.48 | PKFH | 30.2 | -26.2 | 49.48 | - | - | 74 | -24.52 | 169 | 241 | V |
| | * 1.278 | 32.74 | VA1T | 30.2 | -26.2 | 36.74 | 54 | -17.26 | - | - | 169 | 241 | V |
| 2 | * 4.969 | 41.51 | PKFH | 34.1 | -30.3 | 45.31 | - | - | 74 | -28.69 | 264 | 110 | H |
| | * 4.973 | 29.3 | VA1T | 34.1 | -30.3 | 33.1 | 54 | -20.9 | - | - | 264 | 110 | H |
| 3 | * 11.325 | 35.49 | PKFH | 38.1 | -22.2 | 51.39 | - | - | 74 | -22.61 | 19 | 202 | H |
| | * 11.324 | 23.15 | VA1T | 38.1 | -22.2 | 39.05 | 54 | -14.95 | - | - | 19 | 202 | H |
| 5 | * 4.866 | 40.9 | PKFH | 34 | -29.8 | 45.1 | - | - | 74 | -28.9 | 141 | 308 | V |
| | * 4.869 | 28.64 | VA1T | 34 | -29.8 | 32.84 | 54 | -21.16 | - | - | 141 | 308 | V |
| 6 | * 11.941 | 34.88 | PKFH | 39 | -22.1 | 51.78 | - | - | 74 | -22.22 | 123 | 396 | V |
| | * 11.938 | 22.91 | VA1T | 39 | -22.1 | 39.81 | 54 | -14.19 | - | - | 123 | 396 | V |

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


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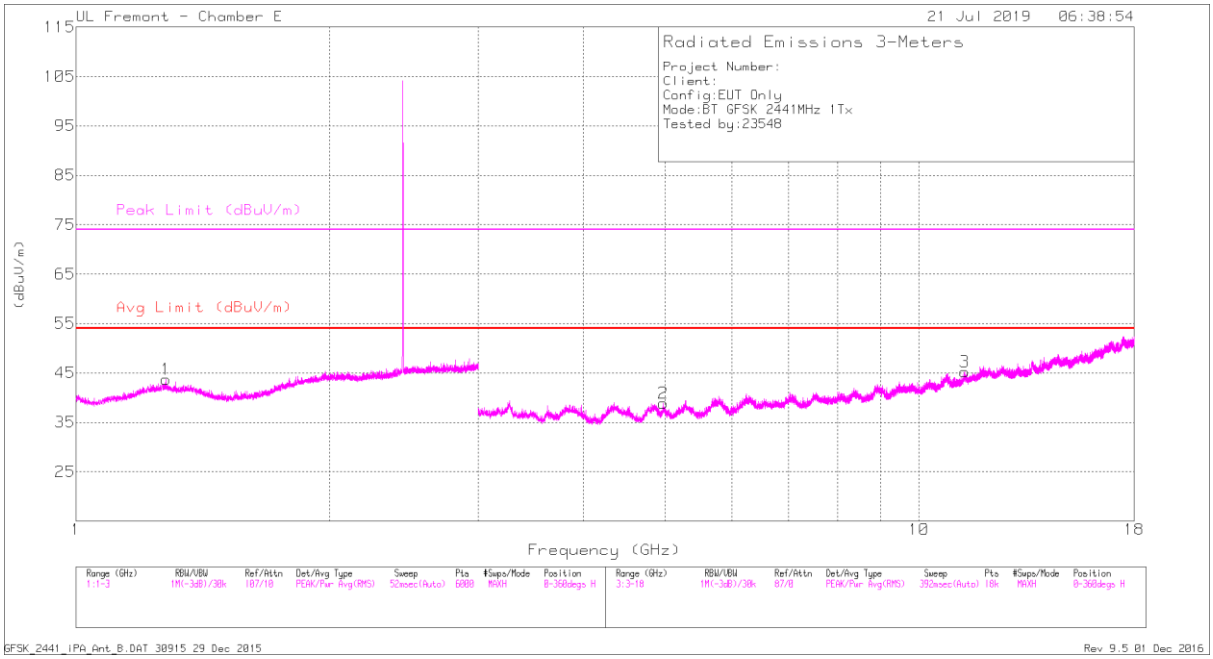
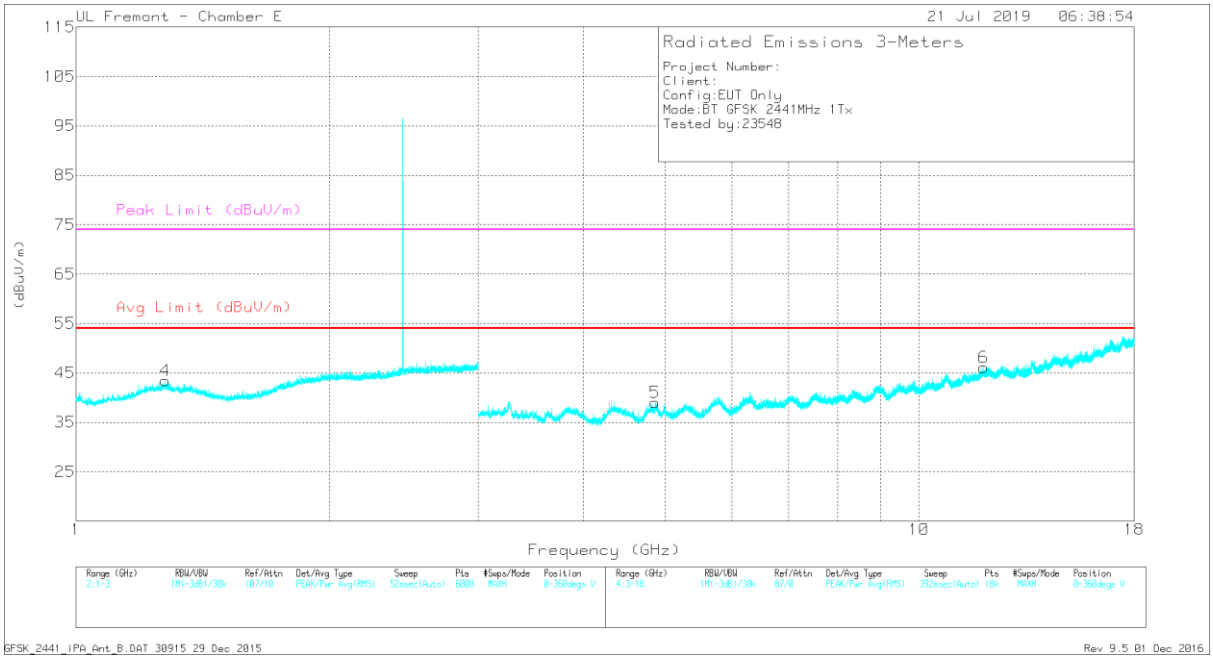
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.277 | 44.53 | PKFH | 30.2 | -26.2 | 48.53 | - | - | 74 | -25.47 | 245 | 326 | H |
| | * 1.28 | 32.74 | VA1T | 30.1 | -26.2 | 36.64 | 54 | -17.36 | - | - | 245 | 326 | H |
| 4 | * 1.277 | 45.48 | PKFH | 30.2 | -26.2 | 49.48 | - | - | 74 | -24.52 | 169 | 241 | V |
| | * 1.278 | 32.74 | VA1T | 30.2 | -26.2 | 36.74 | 54 | -17.26 | - | - | 169 | 241 | V |
| 2 | * 4.969 | 41.51 | PKFH | 34.1 | -30.3 | 45.31 | - | - | 74 | -28.69 | 264 | 110 | H |
| | * 4.973 | 29.3 | VA1T | 34.1 | -30.3 | 33.1 | 54 | -20.9 | - | - | 264 | 110 | H |
| 3 | * 11.325 | 35.49 | PKFH | 38.1 | -22.2 | 51.39 | - | - | 74 | -22.61 | 19 | 202 | H |
| | * 11.324 | 23.15 | VA1T | 38.1 | -22.2 | 39.05 | 54 | -14.95 | - | - | 19 | 202 | H |
| 5 | * 4.866 | 40.9 | PKFH | 34 | -29.8 | 45.1 | - | - | 74 | -28.9 | 141 | 308 | V |
| | * 4.869 | 28.64 | VA1T | 34 | -29.8 | 32.84 | 54 | -21.16 | - | - | 141 | 308 | V |
| 6 | * 11.941 | 34.88 | PKFH | 39 | -22.1 | 51.78 | - | - | 74 | -22.22 | 123 | 396 | V |
| | * 11.938 | 22.91 | VA1T | 39 | -22.1 | 39.81 | 54 | -14.19 | - | - | 123 | 396 | V |

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


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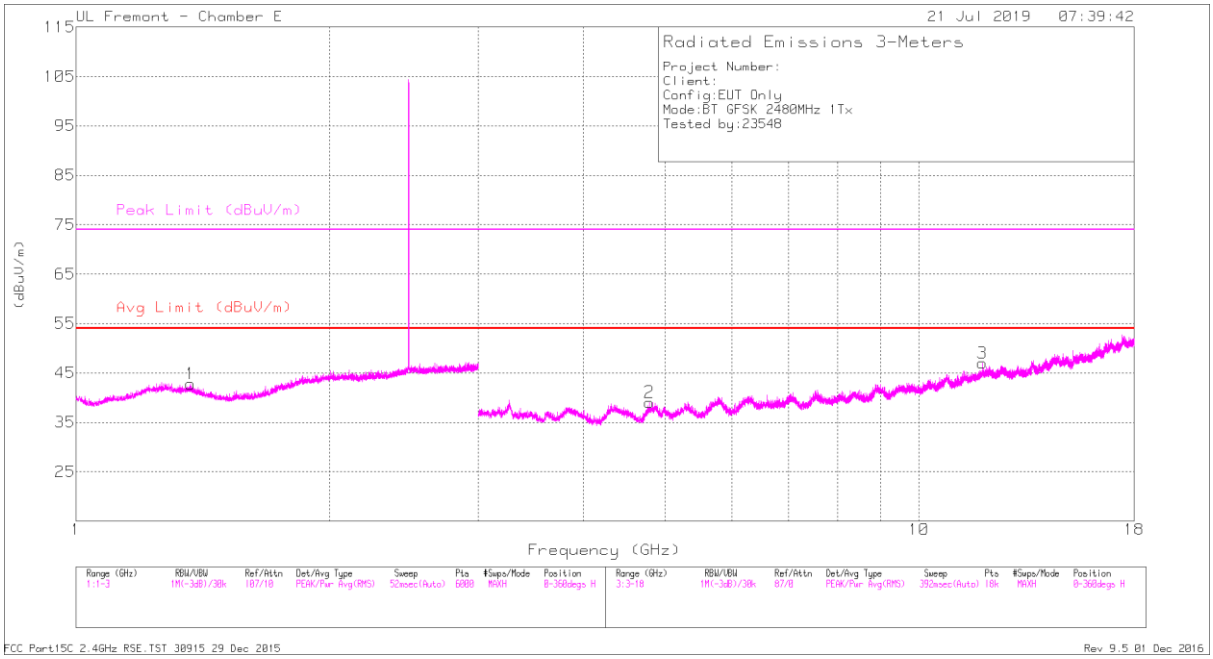
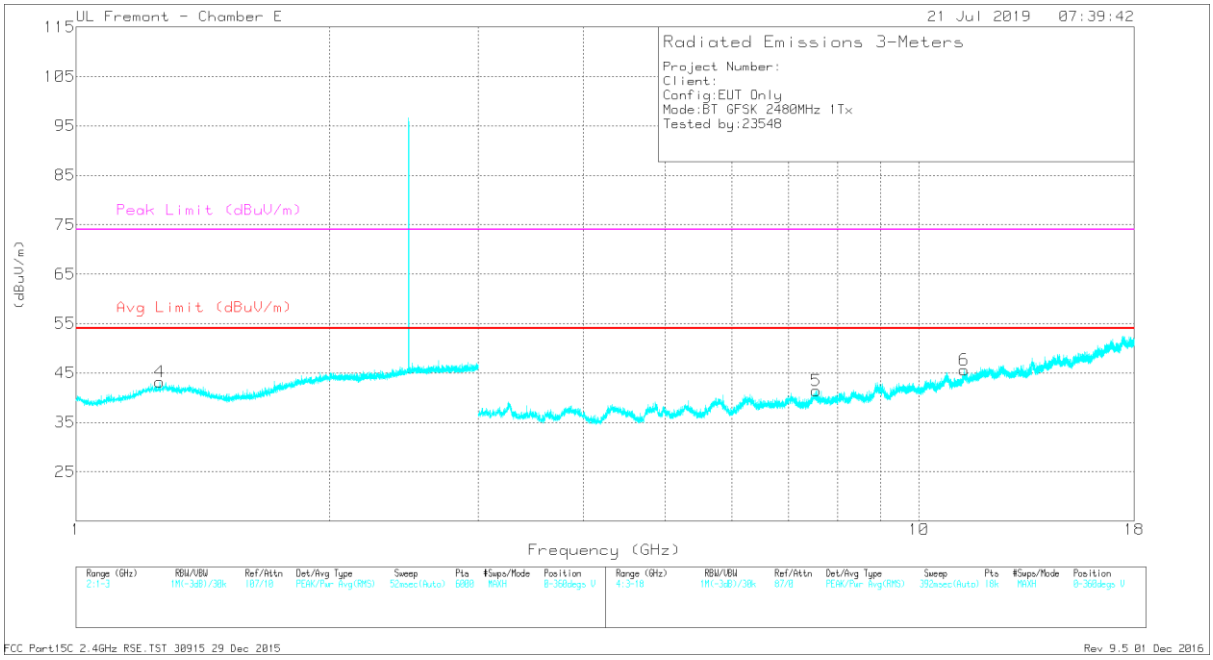
## HIGH CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.368 | 44.8 | PKFH | 29.8 | -26.2 | 48.4 | - | - | 74 | -25.6 | 49 | 241 | H |
| | * 1.365 | 32.82 | VA1T | 29.8 | -26.2 | 36.42 | 54 | -17.58 | - | - | 49 | 241 | H |
| 4 | * 1.258 | 44.13 | PKFH | 29.9 | -26.1 | 47.93 | - | - | 74 | -26.07 | 184 | 133 | V |
| | * 1.259 | 32.66 | VA1T | 29.9 | -26.2 | 36.36 | 54 | -17.64 | - | - | 184 | 133 | V |
| 2 | * 4.787 | 40.87 | PKFH | 34 | -30.9 | 43.97 | - | - | 74 | -30.03 | 85 | 311 | H |
| | * 4.787 | 28.98 | VA1T | 34 | -30.9 | 32.08 | 54 | -21.92 | - | - | 85 | 311 | H |
| 3 | * 11.891 | 34.73 | PKFH | 39 | -22.3 | 51.43 | - | - | 74 | -22.57 | 213 | 377 | H |
| | * 11.89 | 23.08 | VA1T | 39 | -22.3 | 39.78 | 54 | -14.22 | - | - | 213 | 377 | H |
| 5 | * 7.55 | 37.89 | PKFH | 35.8 | -26.3 | 47.39 | - | - | 74 | -26.61 | 295 | 235 | V |
| | * 7.548 | 25.57 | VA1T | 35.8 | -26.3 | 35.07 | 54 | -18.93 | - | - | 295 | 235 | V |
| 6 | * 11.313 | 34.52 | PKFH | 38.1 | -22.2 | 50.42 | - | - | 74 | -23.58 | 126 | 376 | V |
| | * 11.313 | 23.09 | VA1T | 38.1 | -22.2 | 38.99 | 54 | -15.01 | - | - | 126 | 376 | V |

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


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**Antenna 3**

## BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 37.97 | Pk | 32 | -14.5 | 55.47 | - | - | 74 | -18.53 | 40 | 124 | H |
| 2 | * 2.368 | 41 | Pk | 31.8 | -14.4 | 58.4 | - | - | 74 | -15.6 | 40 | 124 | H |
| 3 | * 2.39 | 27.88 | VA1T | 32 | -14.5 | 45.38 | 54 | -8.62 | - | - | 40 | 124 | H |
| 4 | * 2.376 | 27.98 | VA1T | 31.9 | -14.4 | 45.48 | 54 | -8.52 | - | - | 40 | 124 | H |

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



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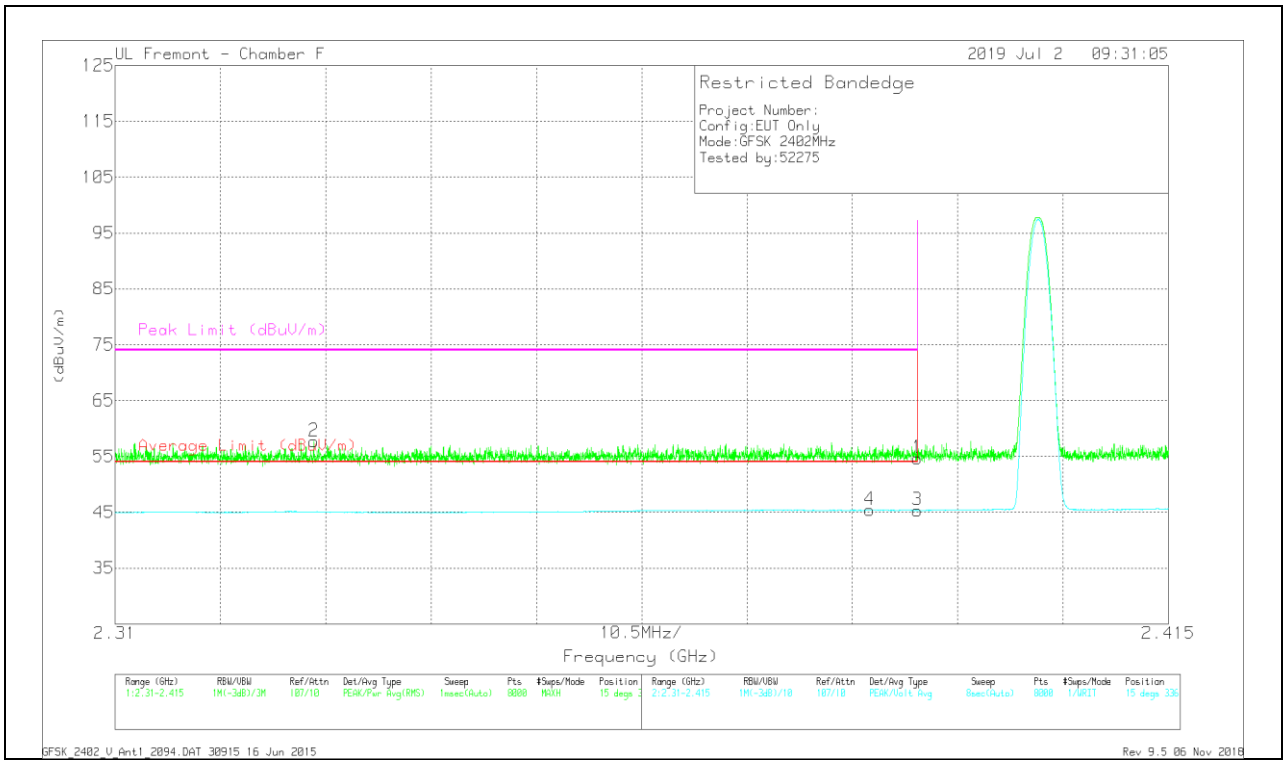
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 37.19 | Pk | 32 | -14.5 | 54.69 | - | - | 74 | -19.31 | 15 | 336 | V |
| 2 | * 2.33 | 40.5 | Pk | 31.6 | -14.4 | 57.7 | - | - | 74 | -16.3 | 15 | 336 | V |
| 3 | * 2.39 | 27.85 | VA1T | 32 | -14.5 | 45.35 | 54 | -8.65 | - | - | 15 | 336 | V |
| 4 | * 2.385 | 28.02 | VA1T | 31.9 | -14.5 | 45.42 | 54 | -8.58 | - | - | 15 | 336 | V |

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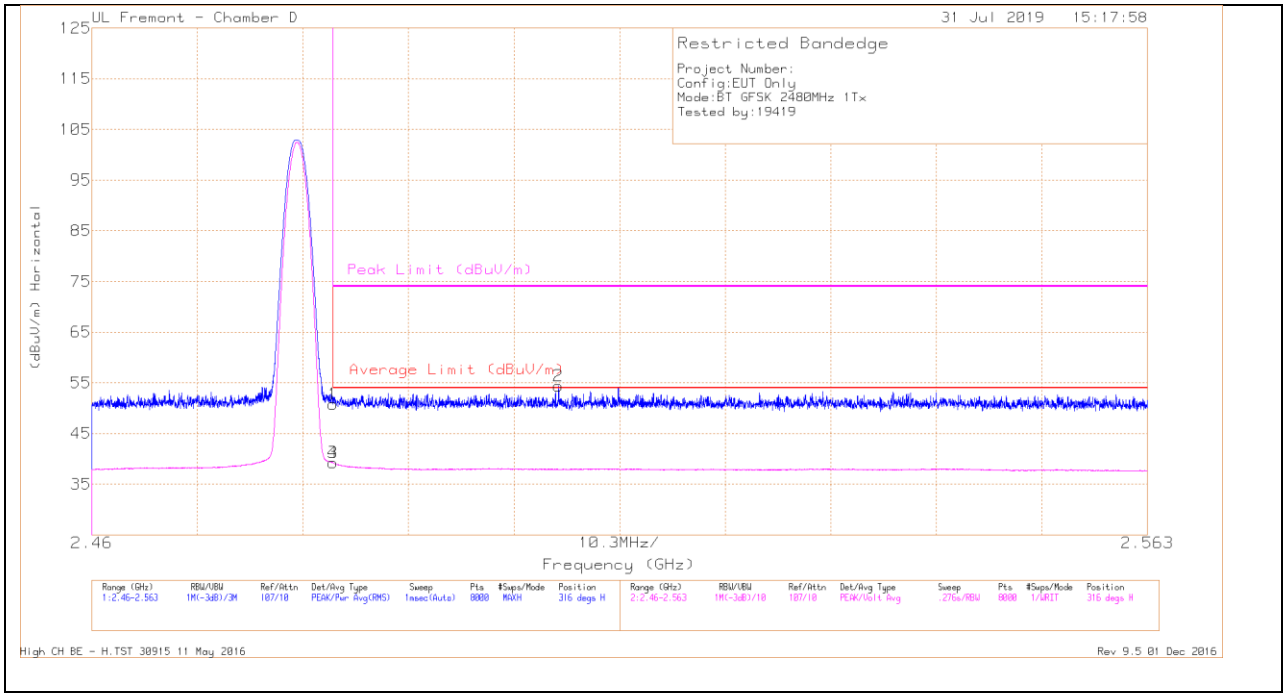
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.03 | Pk | 32.4 | -20.6 | 50.83 | - | - | 74 | -23.17 | 316 | 126 | H |
| 3 | * 2.484 | 27.42 | VA1T | 32.4 | -20.6 | 39.22 | 54 | -14.78 | - | - | 316 | 126 | H |
| 4 | * 2.484 | 27.42 | VA1T | 32.4 | -20.6 | 39.22 | 54 | -14.78 | - | - | 316 | 126 | H |
| 2 | 2.506 | 42.74 | Pk | 32.3 | -20.6 | 54.44 | - | - | 74 | -19.56 | 316 | 126 | H |

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



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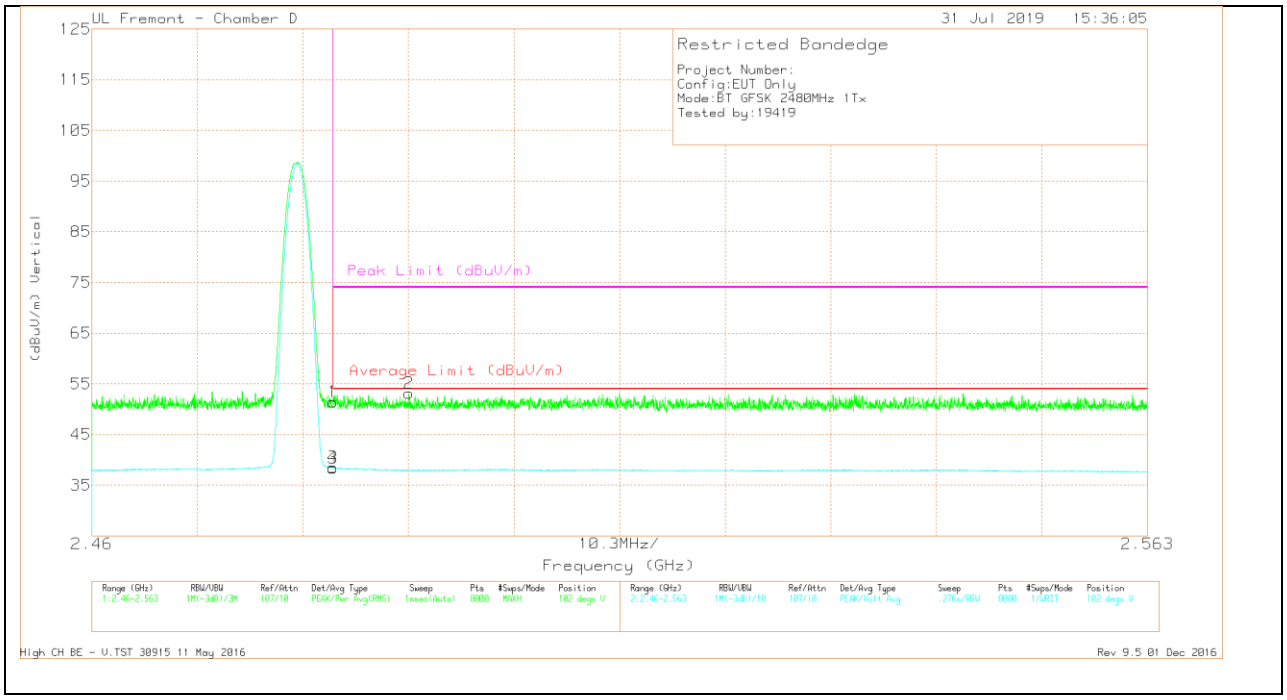
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.6 | Pk | 32.4 | -20.6 | 51.4 | - | - | 74 | -22.6 | 102 | 315 | V |
| 2 | * 2.491 | 41.35 | Pk | 32.4 | -20.6 | 53.15 | - | - | 74 | -20.85 | 102 | 315 | V |
| 3 | * 2.484 | 26.63 | VA1T | 32.4 | -20.6 | 38.43 | 54 | -15.57 | - | - | 102 | 315 | V |
| 4 | * 2.484 | 26.65 | VA1T | 32.4 | -20.6 | 38.45 | 54 | -15.55 | - | - | 102 | 315 | 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
High CH BE - V.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016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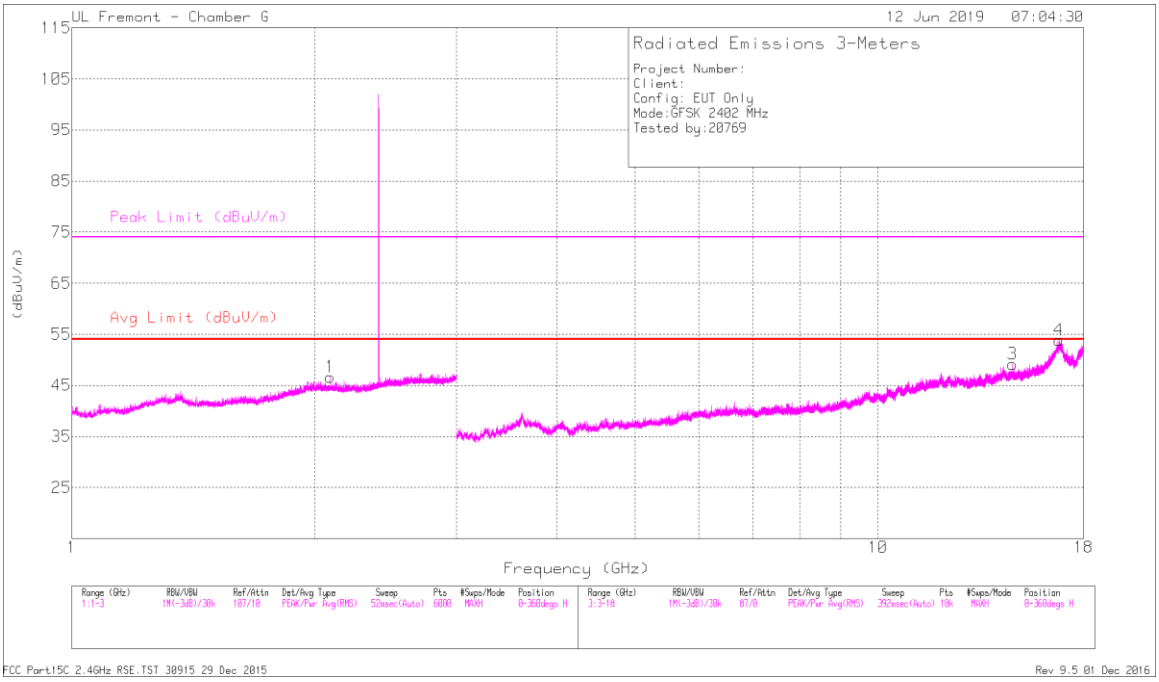
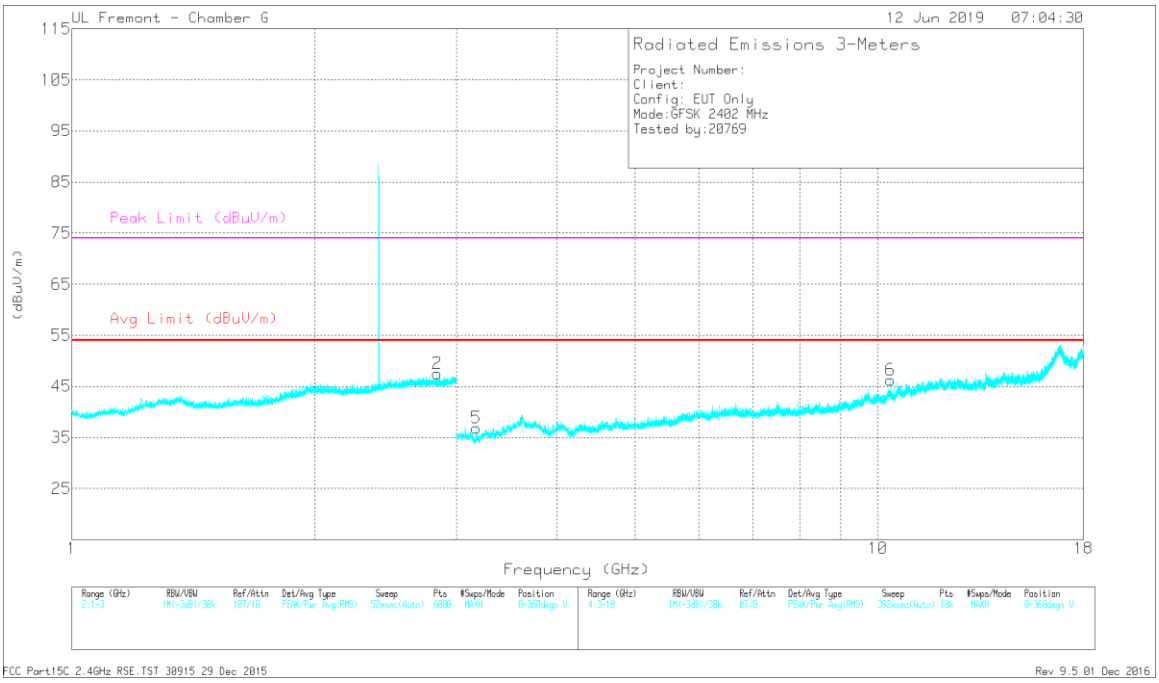
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 2.842 | 41.82 | PKFH | 32.7 | -22 | 52.52 | - | - | 74 | -21.48 | 327 | 284 | V |
| | * 2.844 | 29.06 | VA1T | 32.7 | -22 | 39.76 | 54 | -14.24 | - | - | 327 | 284 | V |
| 1 | 2.092 | 41.79 | PKFH | 32 | -22.4 | 51.39 | - | - | 74 | -22.61 | 205 | 164 | H |
| 5 | 3.177 | 40.76 | PKFH | 32.7 | -30.8 | 42.66 | - | - | 74 | -31.34 | 29 | 225 | V |
| 6 | 10.376 | 36.18 | PKFH | 37.8 | -24.2 | 49.78 | - | - | 74 | -24.22 | 344 | 221 | V |
| 3 | 14.695 | 36.8 | PKFH | 40.5 | -23.7 | 53.6 | - | - | 74 | -20.4 | 160 | 228 | H |
| 4 | 16.781 | 35.33 | PKFH | 41.8 | -17.6 | 59.53 | - | - | 74 | -14.47 | 110 | 239 | H |

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


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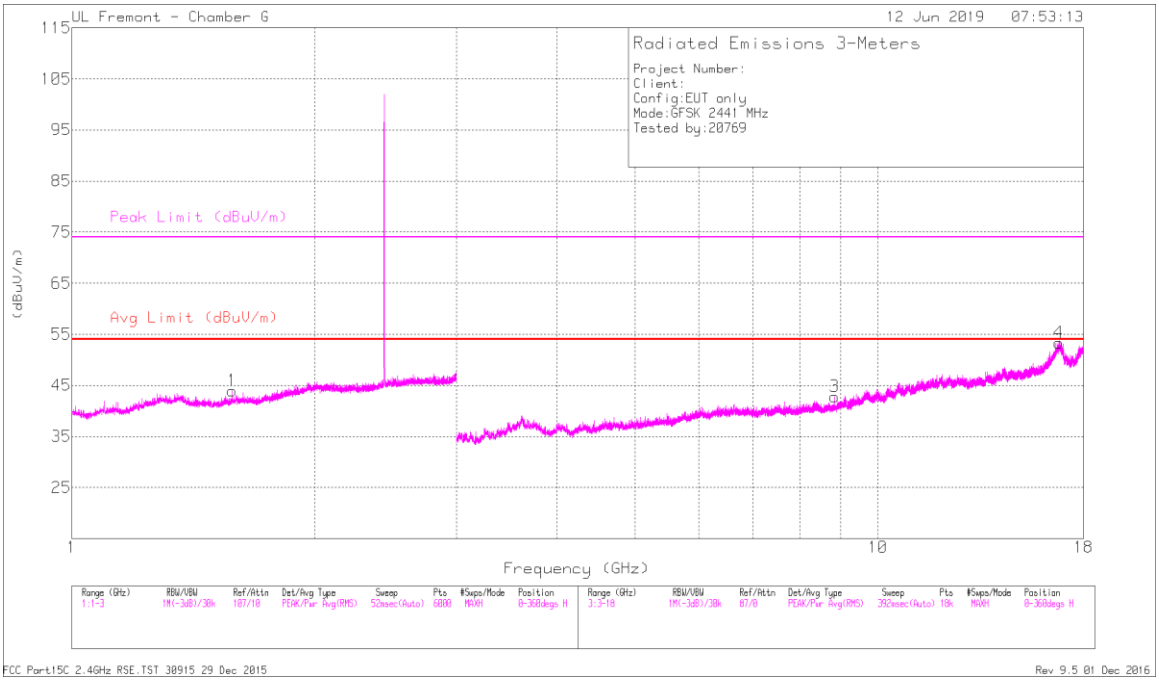
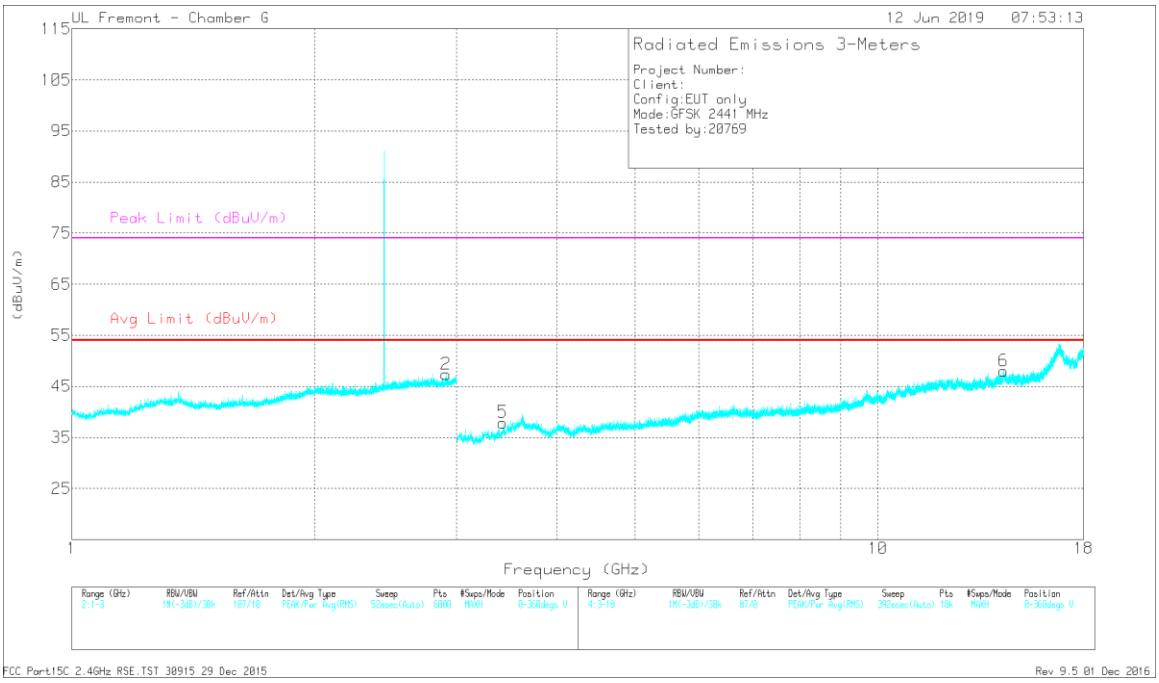
## MID CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.583 | 41.57 | PKFH | 27.9 | -21.3 | 48.17 | - | - | 74 | -25.83 | 272 | 104 | H |
| | * 1.584 | 29.91 | VA1T | 27.9 | -21.3 | 36.51 | 54 | -17.49 | - | - | 272 | 104 | H |
| 2 | 2.914 | 41.38 | PKFH | 32.7 | -21.7 | 52.38 | - | - | 74 | -21.62 | 141 | 177 | V |
| 5 | 3.422 | 39.49 | PKFH | 33.9 | -30.1 | 43.29 | - | - | 74 | -30.71 | 204 | 400 | V |
| 3 | 8.845 | 36.92 | PKFH | 36.3 | -26.3 | 46.92 | - | - | 74 | -27.08 | 252 | 259 | H |
| 6 | 14.33 | 36.56 | PKFH | 40 | -22.5 | 54.06 | - | - | 74 | -19.94 | 13 | 277 | V |
| 4 | 16.772 | 35.84 | PKFH | 41.8 | -17.9 | 59.74 | - | - | 74 | -14.26 | 218 | 136 | H |

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


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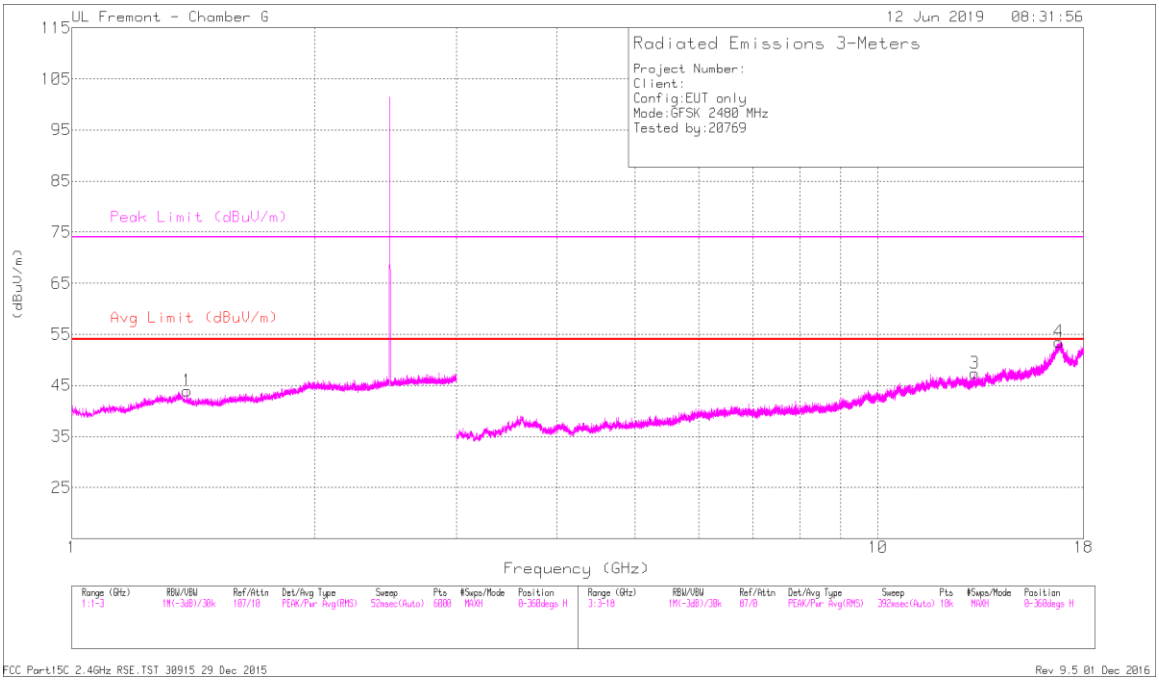
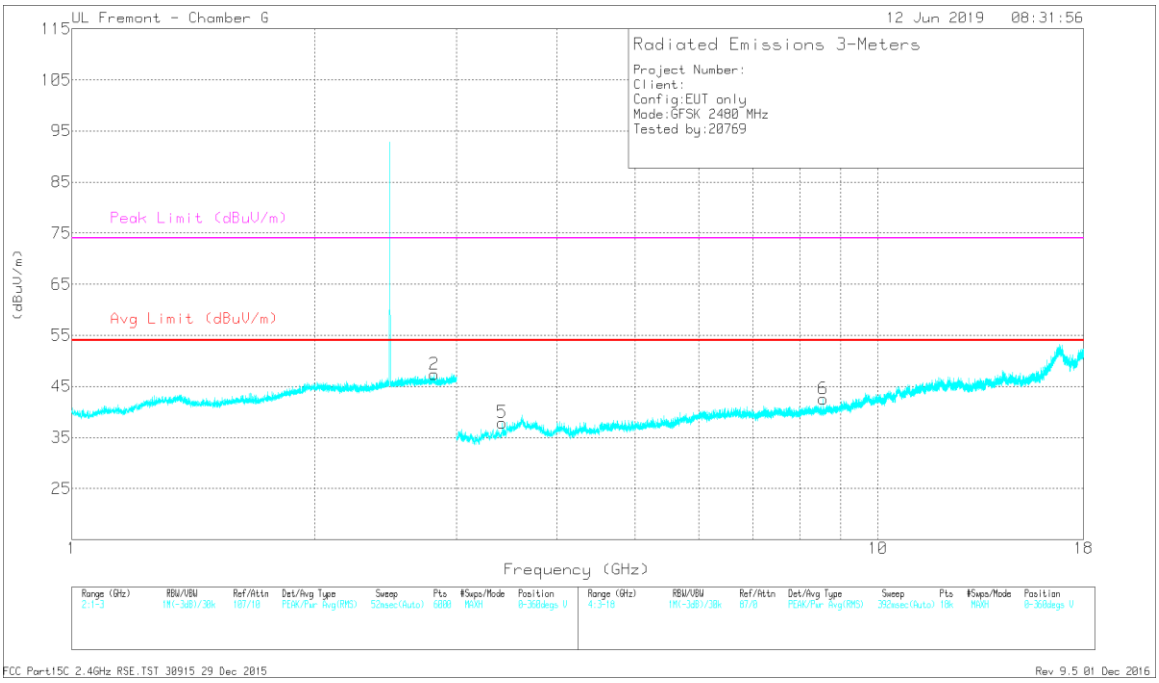
## HIGH CHANNEL RESULTS




## HORIZONTAL




## VERTICAL



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.39 | 42.18 | PKFH | 29.2 | -23.1 | 48.28 | - | - | 74 | -25.72 | 125 | 148 | H |
| | * 1.388 | 30.29 | VA1T | 29.3 | -23.1 | 36.49 | 54 | -17.51 | - | - | 125 | 148 | H |
| 2 | * 2.817 | 40.91 | PKFH | 32.8 | -22 | 51.71 | - | - | 74 | -22.29 | 313 | 304 | V |
| | * 2.818 | 29.39 | VA1T | 32.7 | -22 | 40.09 | 54 | -13.91 | - | - | 313 | 304 | V |
| 5 | 3.419 | 39.44 | PKFH | 33.9 | -30.1 | 43.24 | - | - | 74 | -30.76 | 230 | 362 | V |
| 6 | 8.563 | 37.35 | PKFH | 36.1 | -26.8 | 46.65 | - | - | 74 | -27.35 | 5 | 131 | V |
| 3 | 13.195 | 35.9 | PKFH | 39.6 | -23.1 | 52.4 | - | - | 74 | -21.6 | 70 | 135 | H |
| 4 | 16.764 | 36.46 | PKFH | 41.8 | -18.2 | 60.06 | - | - | 74 | -13.94 | 307 | 386 | H |

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


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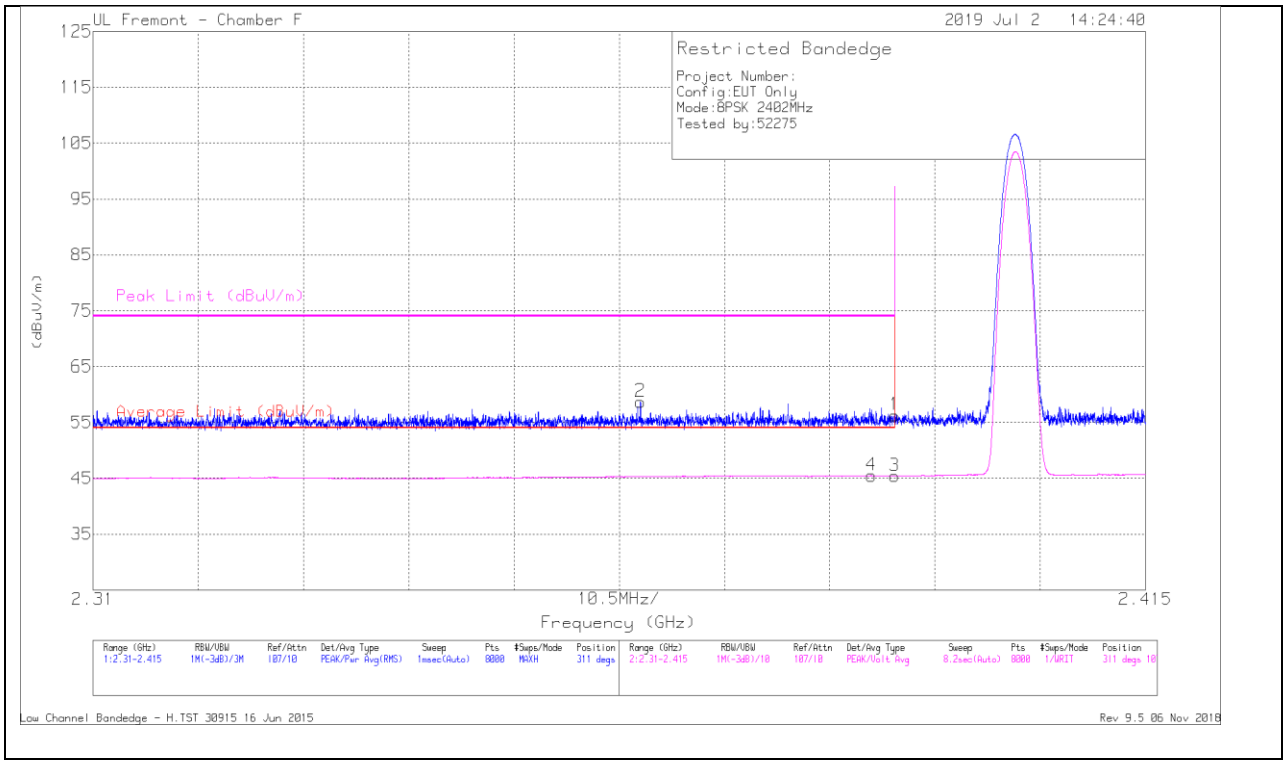
# 9.1.4 LOW POWER ENHANCED DATA RATE 8PSK MODULATION

**Antenna 4**

## BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 38.8 | Pk | 32 | -14.5 | 56.3 | - | - | 74 | -17.7 | 311 | 107 | H |
| 2 | * 2.365 | 41.29 | Pk | 31.8 | -14.4 | 58.69 | - | - | 74 | -15.31 | 311 | 107 | H |
| 3 | * 2.39 | 27.9 | VA1T | 32 | -14.5 | 45.4 | 54 | -8.6 | - | - | 311 | 107 | H |
| 4 | * 2.388 | 28.09 | VA1T | 31.9 | -14.5 | 45.49 | 54 | -8.51 | - | - | 311 | 107 | H |

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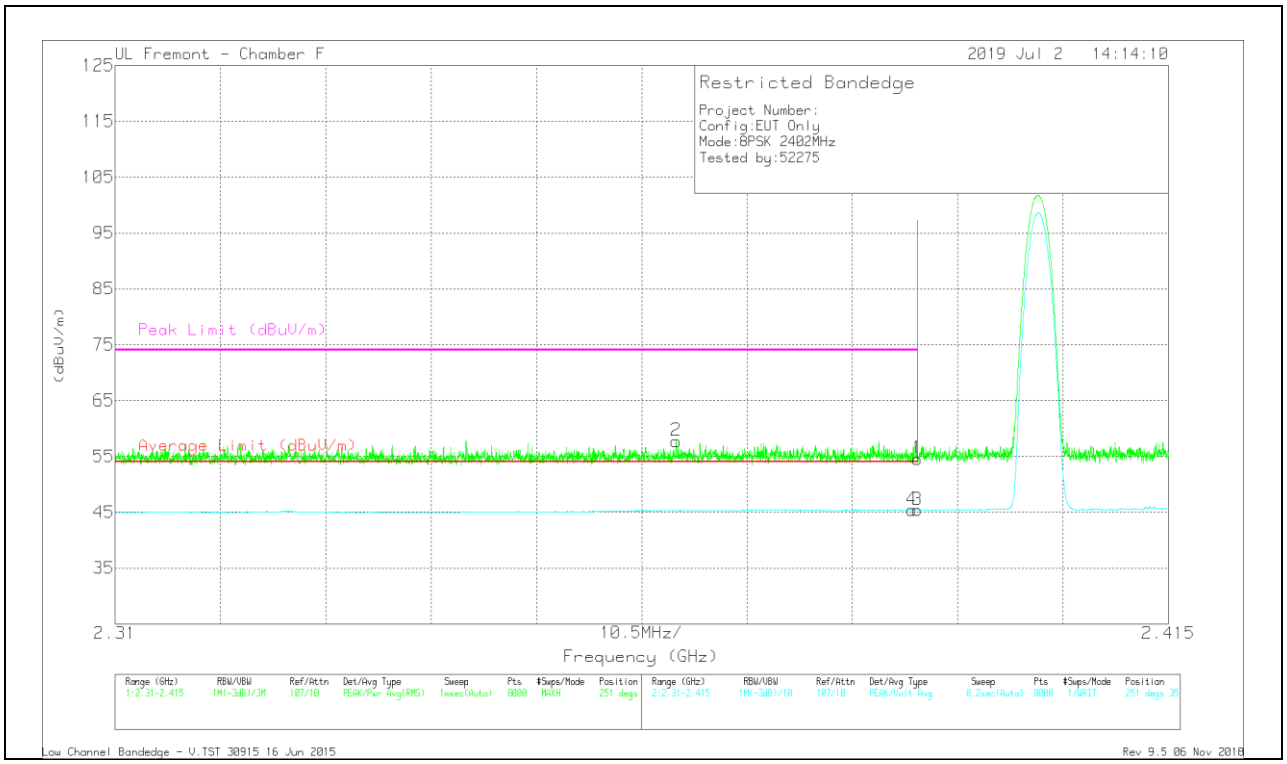
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr /Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.39 | 37.09 | Pk | 32 | -14.5 | 54.59 | - | - | 74 | -19.41 | 251 | 351 | V |
| 2 | * 2.366 | 40.36 | Pk | 31.8 | -14.4 | 57.76 | - | - | 74 | -16.24 | 251 | 351 | V |
| 3 | * 2.39 | 27.89 | VA1T | 32 | -14.5 | 45.39 | 54 | -8.61 | - | - | 251 | 351 | V |
| 4 | * 2.389 | 27.93 | VA1T | 32 | -14.5 | 45.43 | 54 | -8.57 | - | - | 251 | 351 | V |

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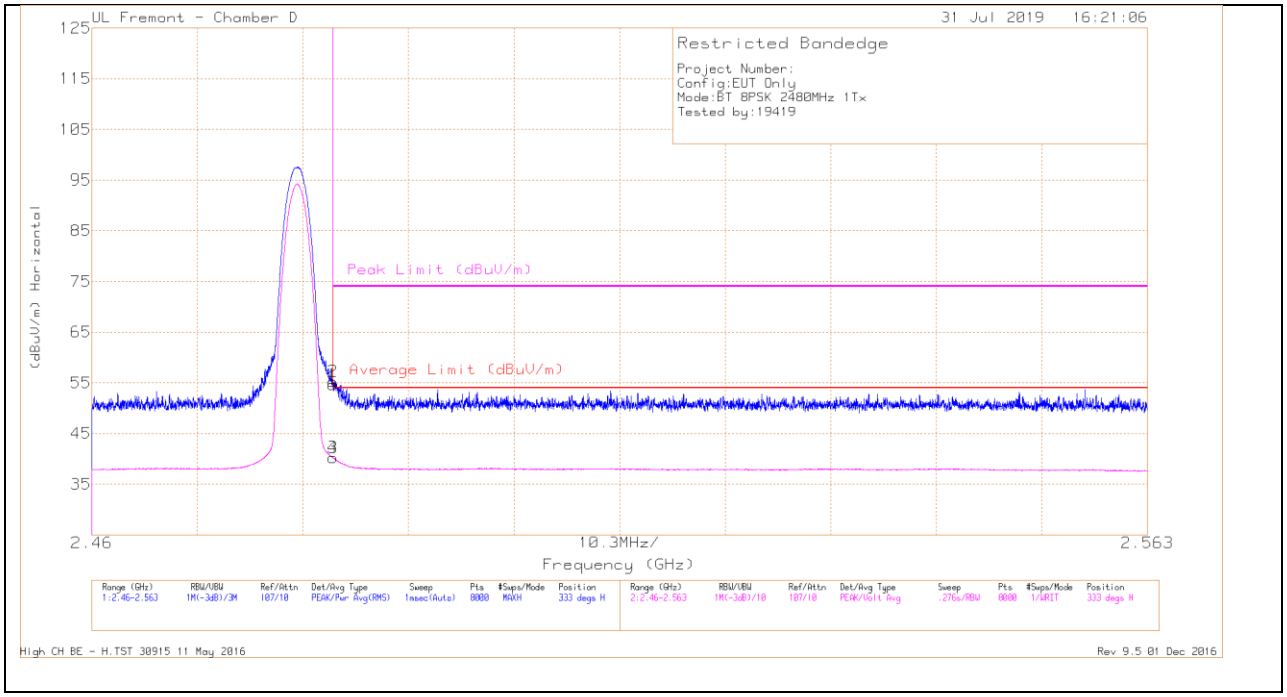
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 42.87 | Pk | 32.4 | -20.6 | 54.67 | - | - | 74 | -19.33 | 333 | 218 | H |
| 2 | * 2.484 | 43.45 | Pk | 32.4 | -20.6 | 55.25 | - | - | 74 | -18.75 | 333 | 218 | H |
| 3 | * 2.484 | 28.39 | VA1T | 32.4 | -20.6 | 40.19 | 54 | -13.81 | - | - | 333 | 218 | H |
| 4 | * 2.484 | 28.39 | VA1T | 32.4 | -20.6 | 40.19 | 54 | -13.81 | - | - | 333 | 218 | H |

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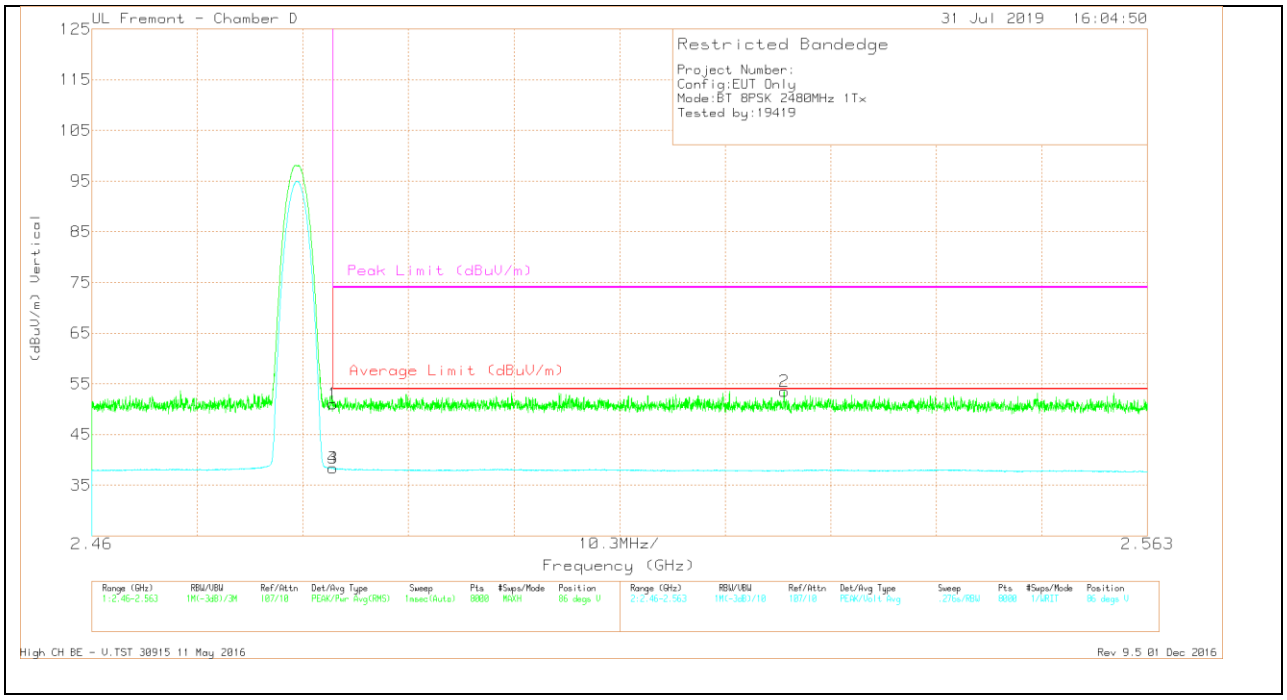
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.2 | Pk | 32.4 | -20.6 | 51 | - | - | 74 | -23 | 86 | 358 | V |
| 3 | * 2.484 | 26.52 | VA1T | 32.4 | -20.6 | 38.32 | 54 | -15.68 | - | - | 86 | 358 | V |
| 4 | * 2.484 | 26.55 | VA1T | 32.4 | -20.6 | 38.35 | 54 | -15.65 | - | - | 86 | 358 | V |
| 2 | 2.528 | 41.77 | Pk | 32.3 | -20.5 | 53.57 | - | - | 74 | -20.43 | 86 | 358 | 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
High CH BE - V.TST 30915 11 May 2016
Rev 9.5 01 Dec 2016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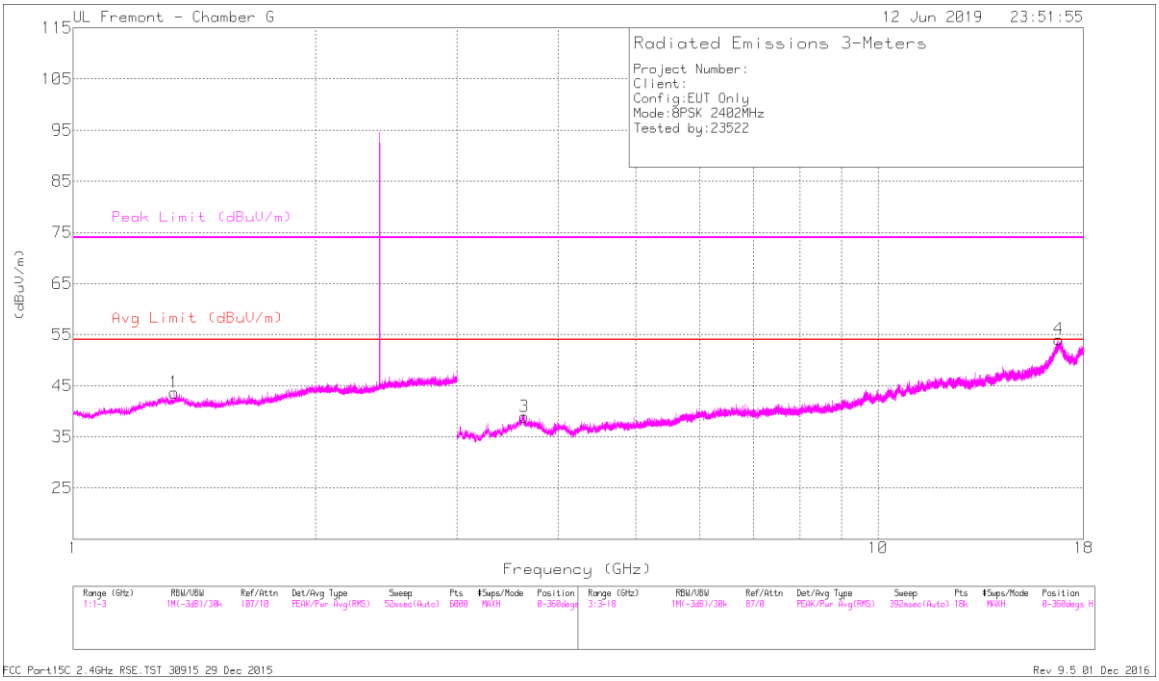
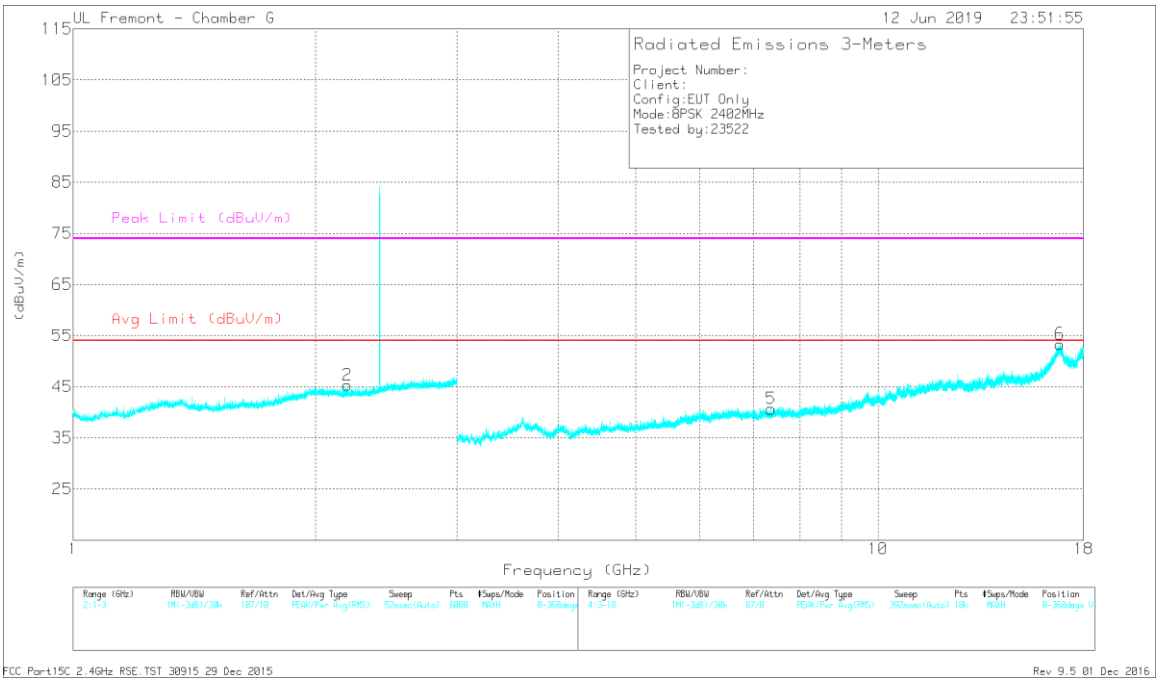
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.335 | 42.17 | PKFH | 29.7 | -23.3 | 48.57 | - | - | 74 | -25.43 | 153 | 107 | H |
| | * 1.336 | 30.16 | VA1T | 29.8 | -23.3 | 36.66 | 54 | -17.34 | - | - | 153 | 107 | H |
| 3 | * 3.636 | 40.34 | PKFH | 34.8 | -29.6 | 45.54 | - | - | 74 | -28.46 | 114 | 227 | H |
| | * 3.637 | 27.54 | VA1T | 34.8 | -29.6 | 32.74 | 54 | -21.26 | - | - | 114 | 227 | H |
| 5 | * 7.369 | 38.76 | PKFH | 35.9 | -28.2 | 46.46 | - | - | 74 | -27.54 | 56 | 299 | V |
| | * 7.369 | 27 | VA1T | 35.9 | -28.2 | 34.7 | 54 | -19.3 | - | - | 56 | 299 | V |
| 2 | 2.193 | 40.96 | PKFH | 31.7 | -22.4 | 50.26 | - | - | 74 | -23.74 | 23 | 164 | V |
| 4 | 16.769 | 35.41 | PKFH | 41.8 | -18.1 | 59.11 | - | - | 74 | -14.89 | 102 | 101 | H |
| 6 | 16.832 | 35.73 | PKFH | 41.7 | -17.9 | 59.53 | - | - | 74 | -14.47 | 301 | 202 | V |

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


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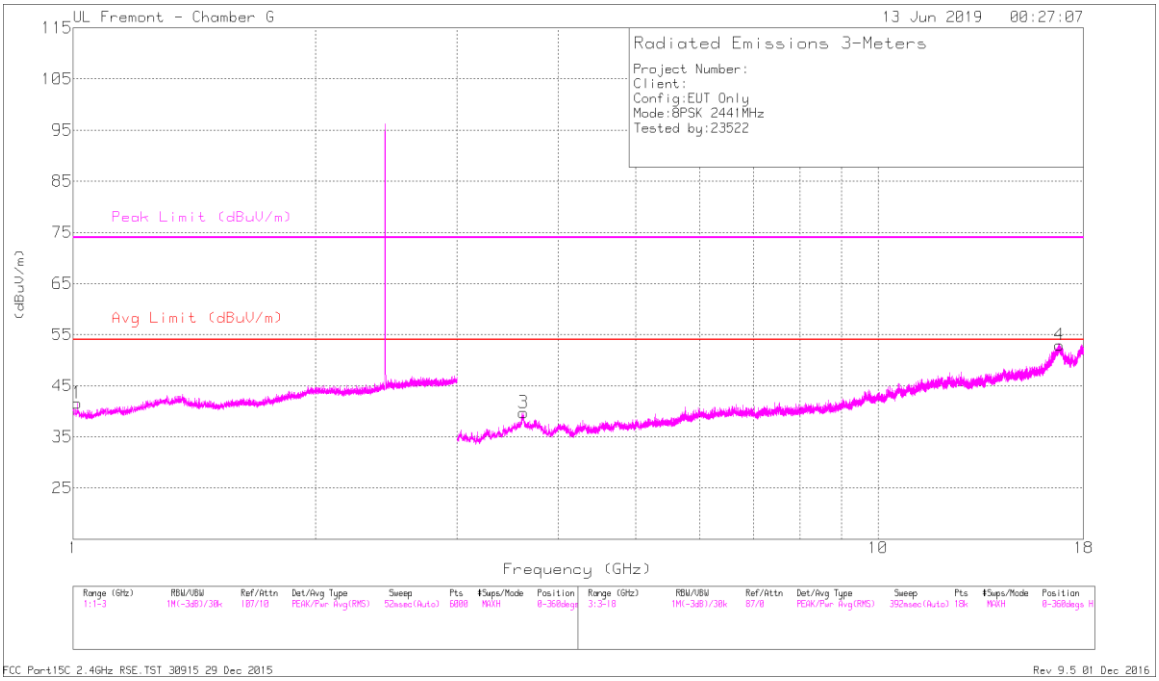
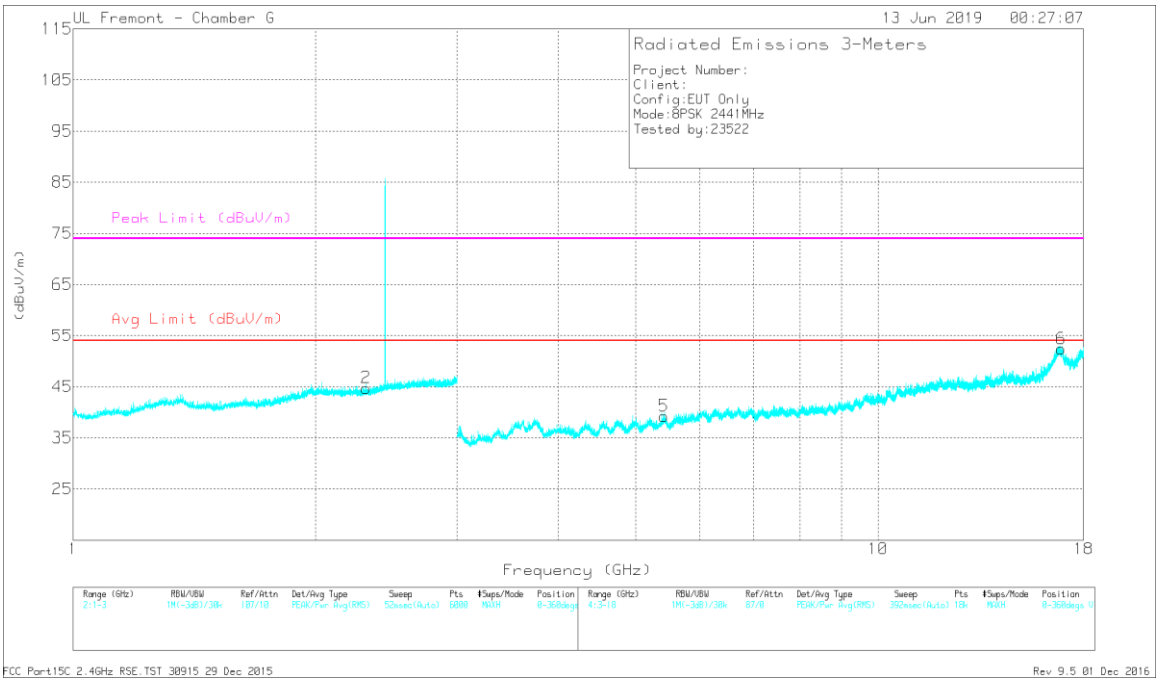
## MID CHANNEL RESULTS




**HORIZONTAL**

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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T120 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.013 | 42.38 | PKFH | 27.5 | -24 | 45.88 | - | - | 74 | -28.12 | 360 | 201 | H |
| | * 1.012 | 30.79 | VA1T | 27.5 | -24 | 34.29 | 54 | -19.71 | - | - | 360 | 201 | H |
| 2 | * 2.362 | 43.05 | PKFH | 31.7 | -22.2 | 52.55 | - | - | 74 | -21.45 | 326 | 155 | V |
| | * 2.372 | 30.31 | VA1T | 31.8 | -22.2 | 39.91 | 54 | -14.09 | - | - | 326 | 155 | V |
| 3 | * 3.625 | 39.41 | PKFH | 35.4 | -29.8 | 45.01 | - | - | 74 | -28.99 | 237 | 250 | H |
| | * 3.626 | 27.77 | VA1T | 35.4 | -29.8 | 33.37 | 54 | -20.63 | - | - | 237 | 250 | H |
| 5 | * 5.421 | 38.92 | PKFH | 34.7 | -29.1 | 44.52 | - | - | 74 | -29.48 | 151 | 330 | V |
| | * 5.42 | 27.19 | VA1T | 34.7 | -29.1 | 32.79 | 54 | -21.21 | - | - | 151 | 330 | V |
| 4 | 16.793 | 35.37 | PKFH | 41.7 | -17.4 | 59.67 | - | - | 74 | -14.33 | 77 | 135 | H |
| 6 | 16.892 | 35.47 | PKFH | 41.6 | -18.4 | 58.67 | - | - | 74 | -15.33 | 145 | 198 | V |

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


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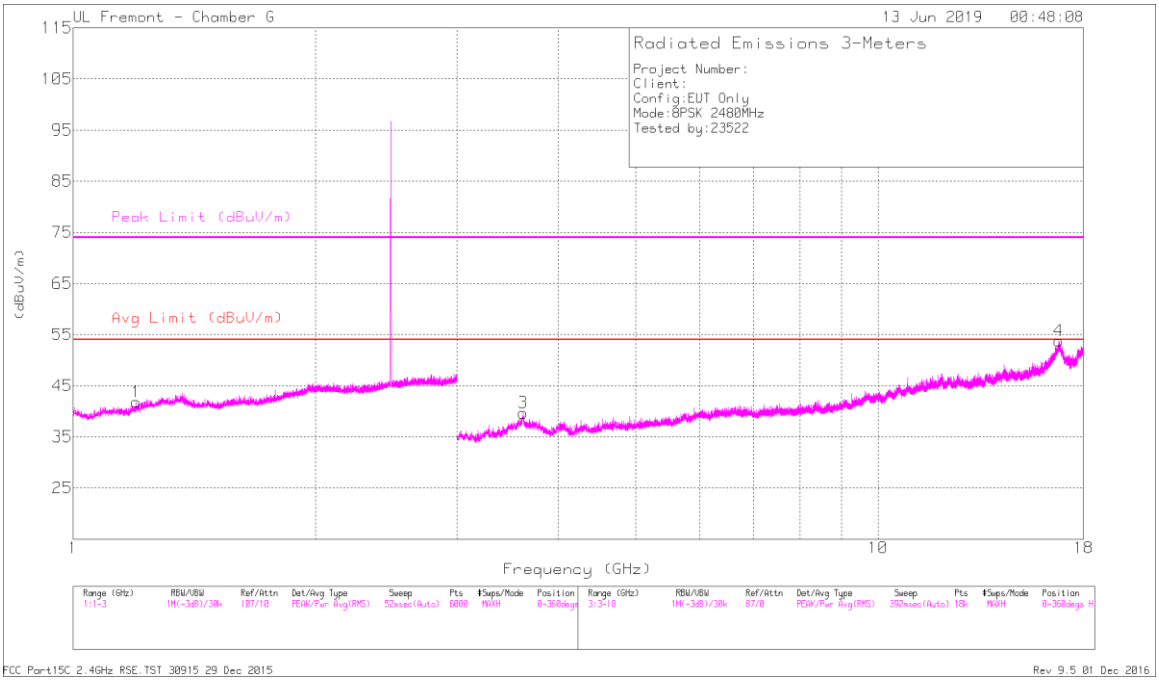
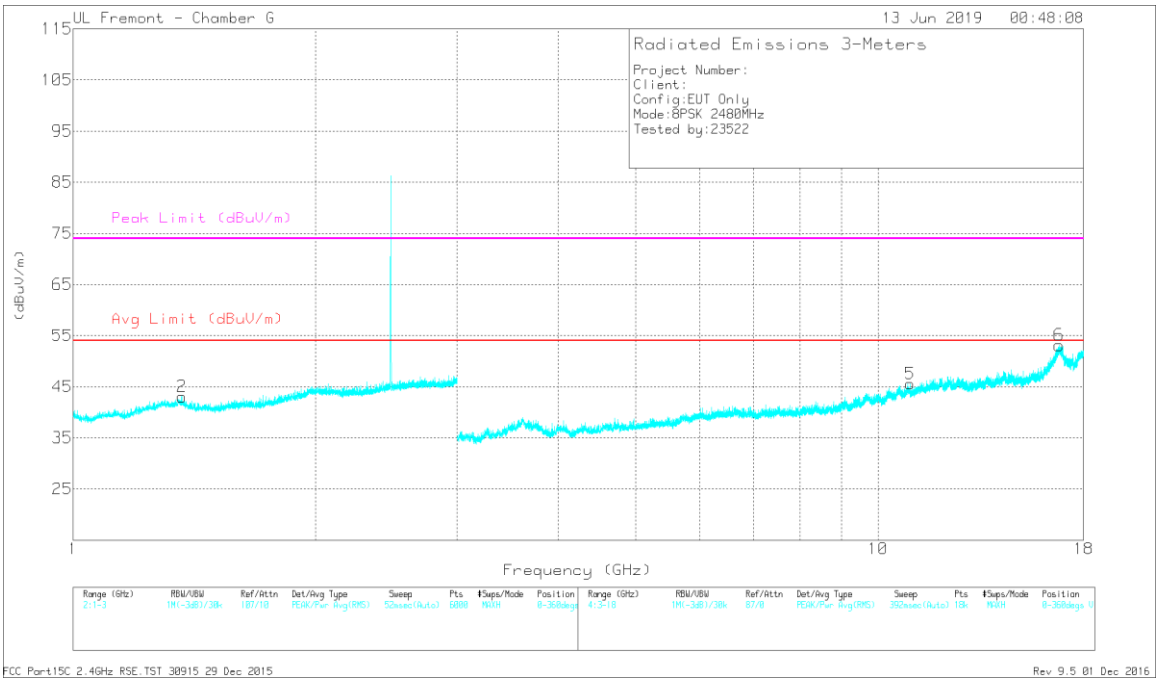
## HIGH CHANNEL RESULTS




**HORIZONTAL**

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