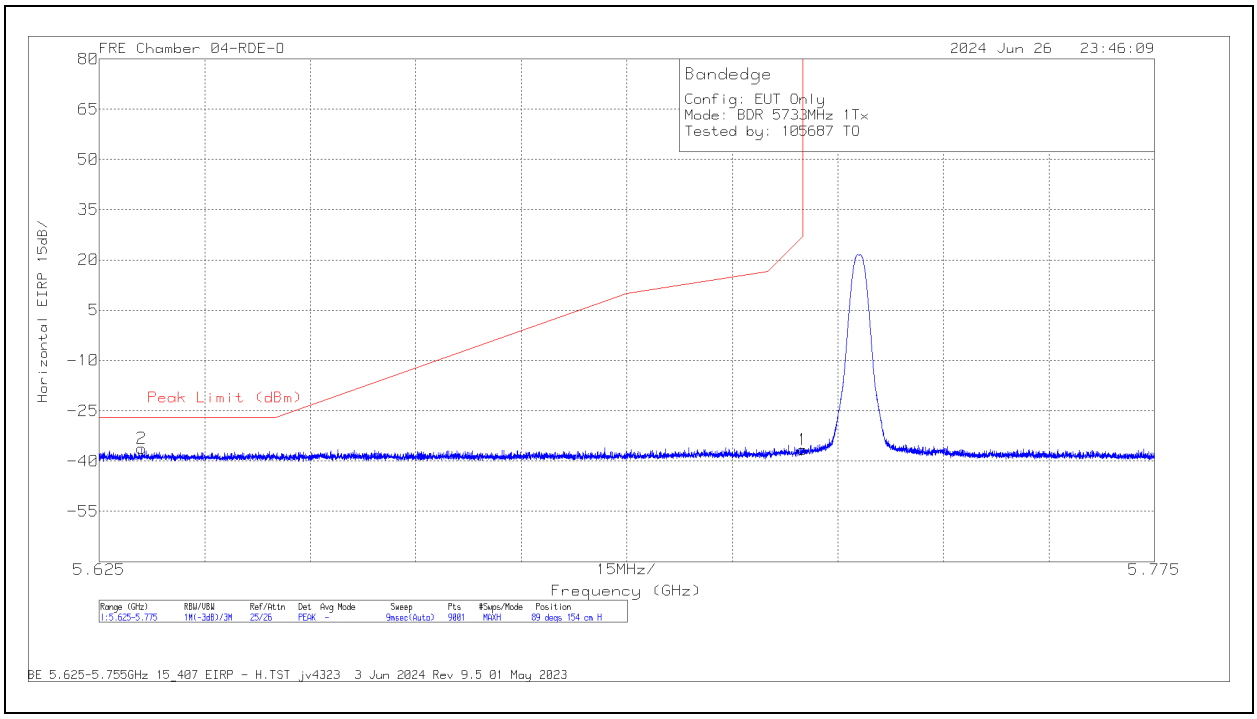
## 10.1.13. BDR HIGH POWER, UNII-3 BAND, BANDEDGE

## ANT 6, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.63105 | -49.04 | Pk | 35.1 | 11.8 | -34.11 | -36.25 | -27 | -9.25 | 89 | 154 | H |
| 1 | 5.725 | -49.51 | Pk | 35.2 | 11.8 | -34.1 | -36.61 | 27 | -63.61 | 89 | 154 | H |

Pk - Peak detector



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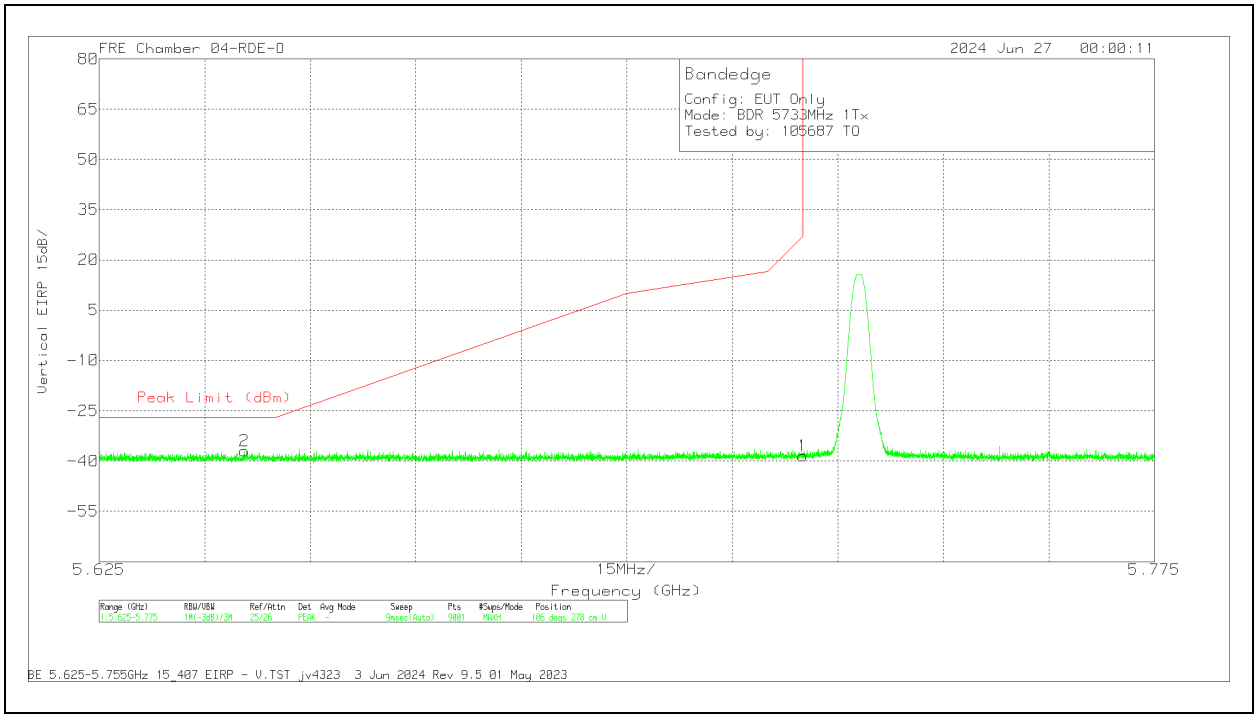
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.64565 | -49.66 | Pk | 35.1 | 11.8 | -34.23 | -36.99 | -27 | -9.99 | 106 | 278 | V |
| 1 | 5.725 | -51.28 | Pk | 35.2 | 11.8 | -34.1 | -38.38 | 27 | -65.38 | 106 | 278 | V |

Pk - Peak detector



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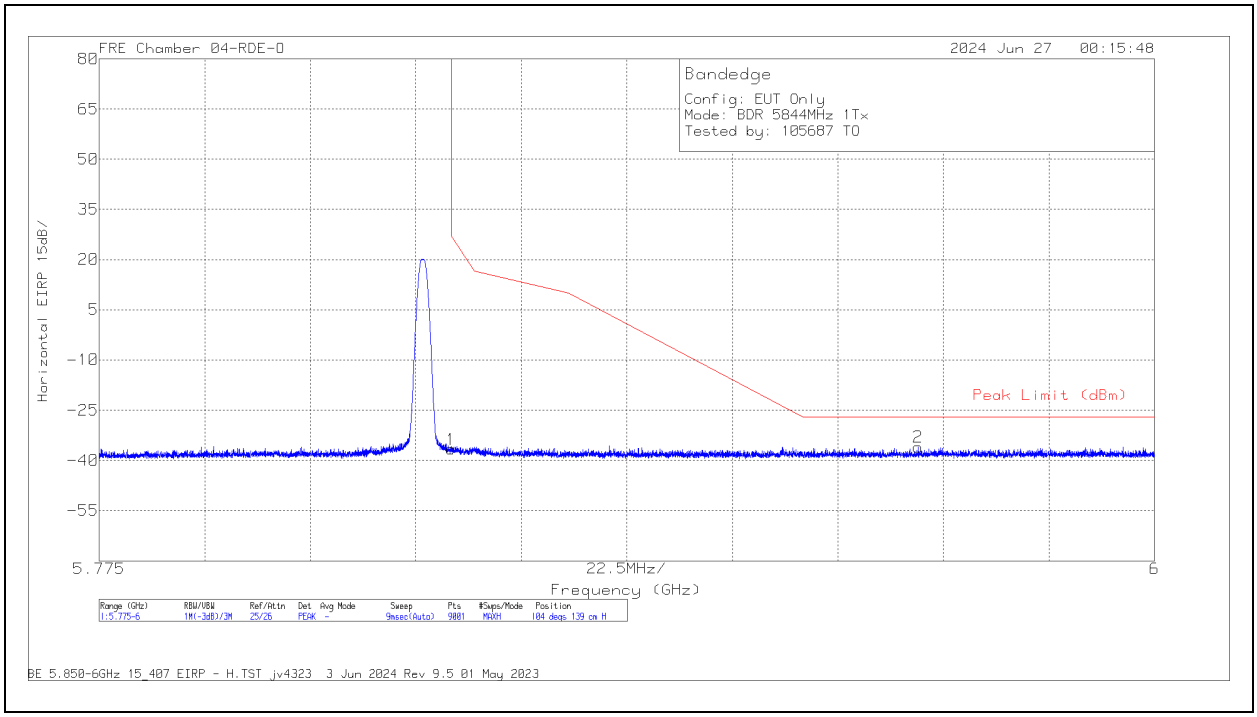
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -50.08 | Pk | 35.4 | 11.8 | -33.8 | -36.68 | 27 | -63.68 | 104 | 139 | H |
| 2 | 5.949675 | -49.72 | Pk | 35.6 | 11.8 | -33.7 | -36.02 | -27 | -9.02 | 104 | 139 | H |

Pk - Peak detector



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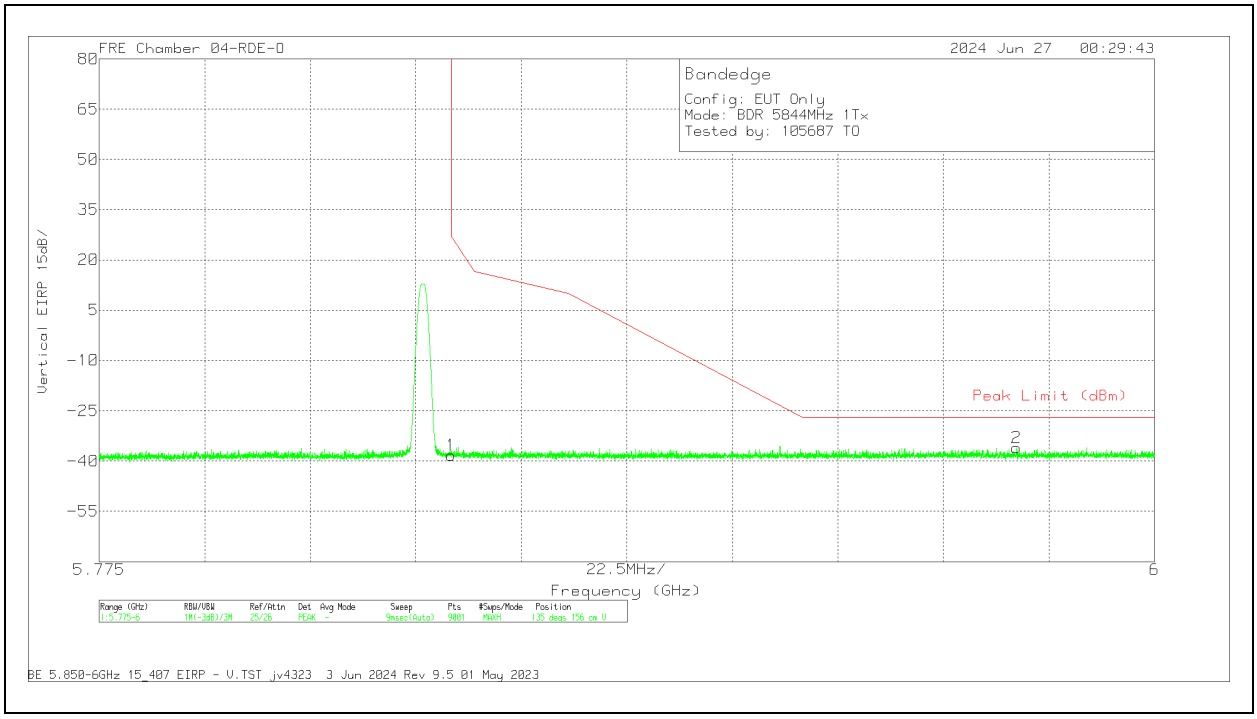
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.67 | Pk | 35.4 | 11.8 | -33.8 | -38.27 | 27 | -65.27 | 135 | 156 | V |
| 2 | 5.97065 | -49.76 | Pk | 35.6 | 11.8 | -33.7 | -36.06 | -27 | -9.06 | 135 | 156 | V |

Pk - Peak detector



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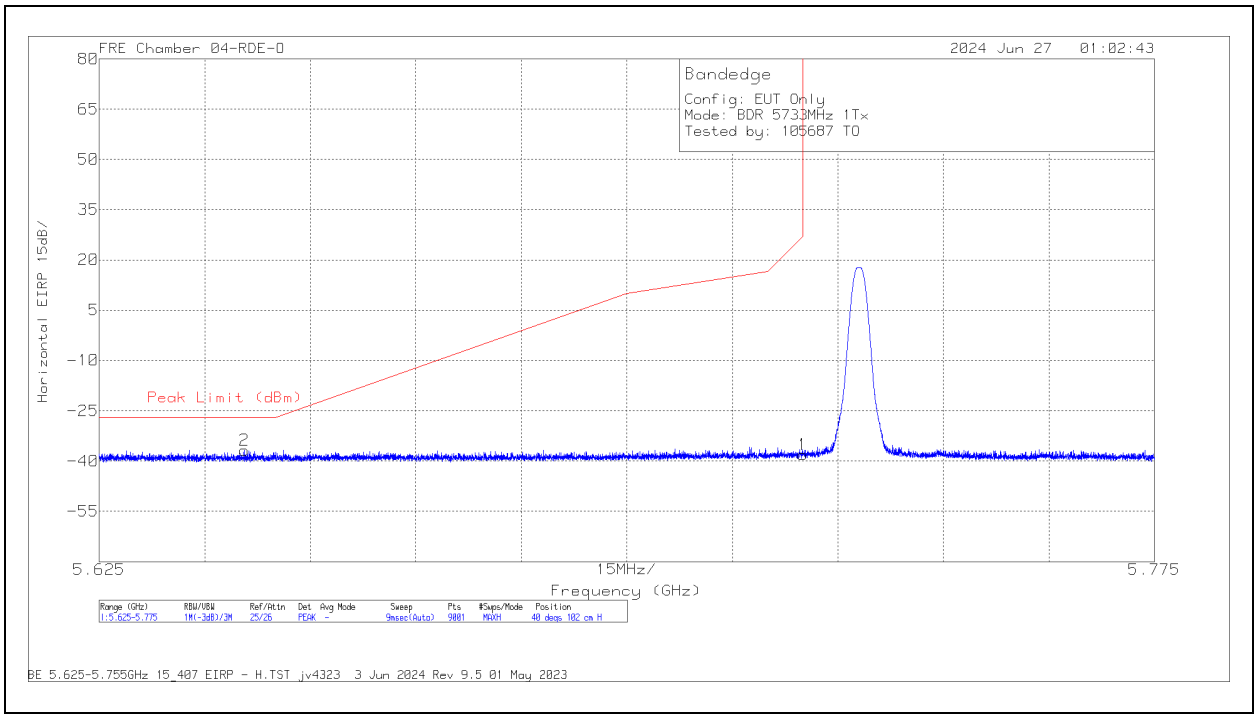
## ANT 5, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.645684 | -49.37 | Pk | 35.1 | 11.8 | -34.23 | -36.7 | -27 | -9.7 | 40 | 102 | H |
| 1 | 5.725 | -51.02 | Pk | 35.2 | 11.8 | -34.1 | -38.12 | 27 | -65.12 | 40 | 102 | H |

Pk - Peak detector



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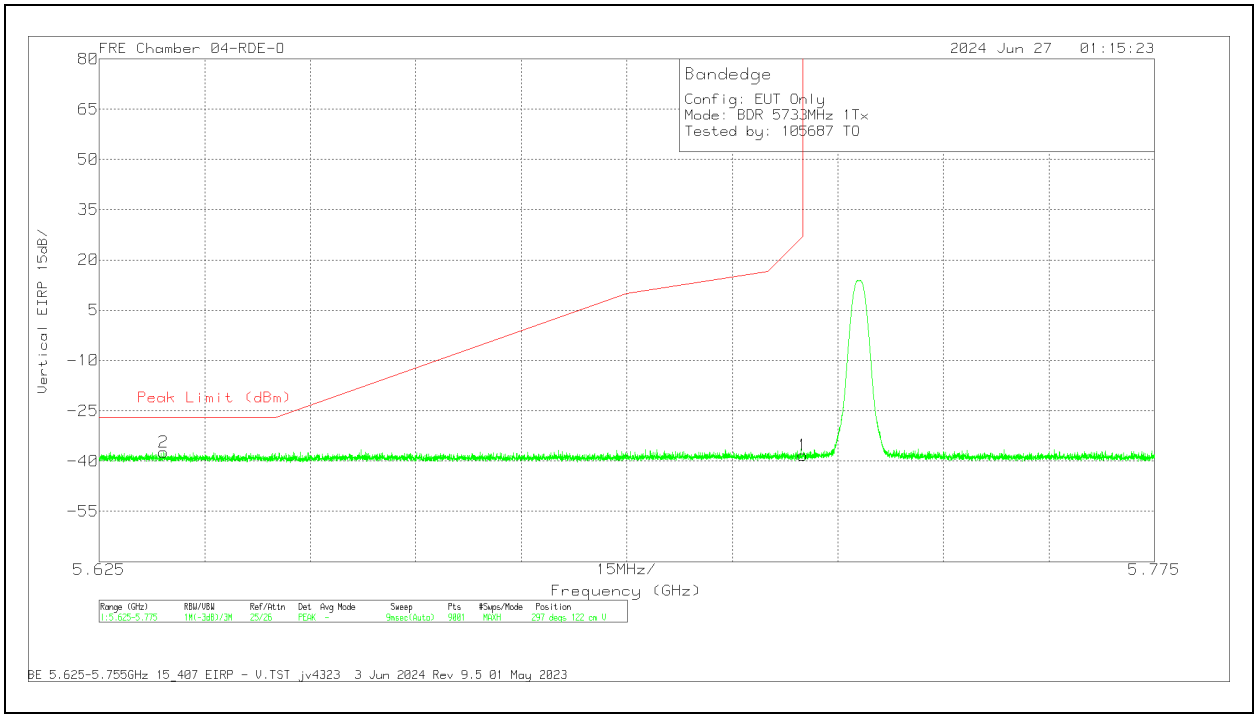
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.634167 | -50.01 | Pk | 35.1 | 11.8 | -34.2 | -37.31 | -27 | -10.31 | 297 | 122 | V |
| 1 | 5.725 | -51.19 | Pk | 35.2 | 11.8 | -34.1 | -38.29 | 27 | -65.29 | 297 | 122 | V |

Pk - Peak detector



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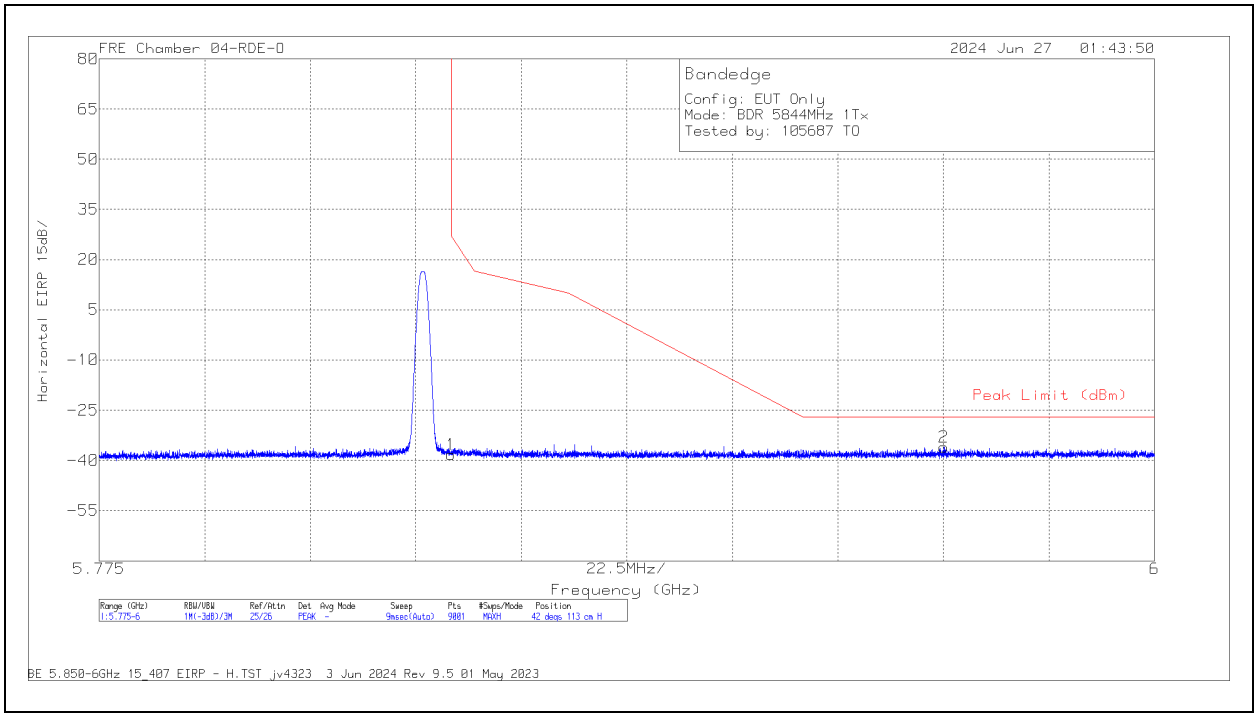
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.71 | Pk | 35.4 | 11.8 | -33.8 | -38.31 | 27 | -65.31 | 42 | 113 | H |
| 2 | 5.95515 | -49.95 | Pk | 35.6 | 11.8 | -33.52 | -36.07 | -27 | -9.07 | 42 | 113 | H |

Pk - Peak detector



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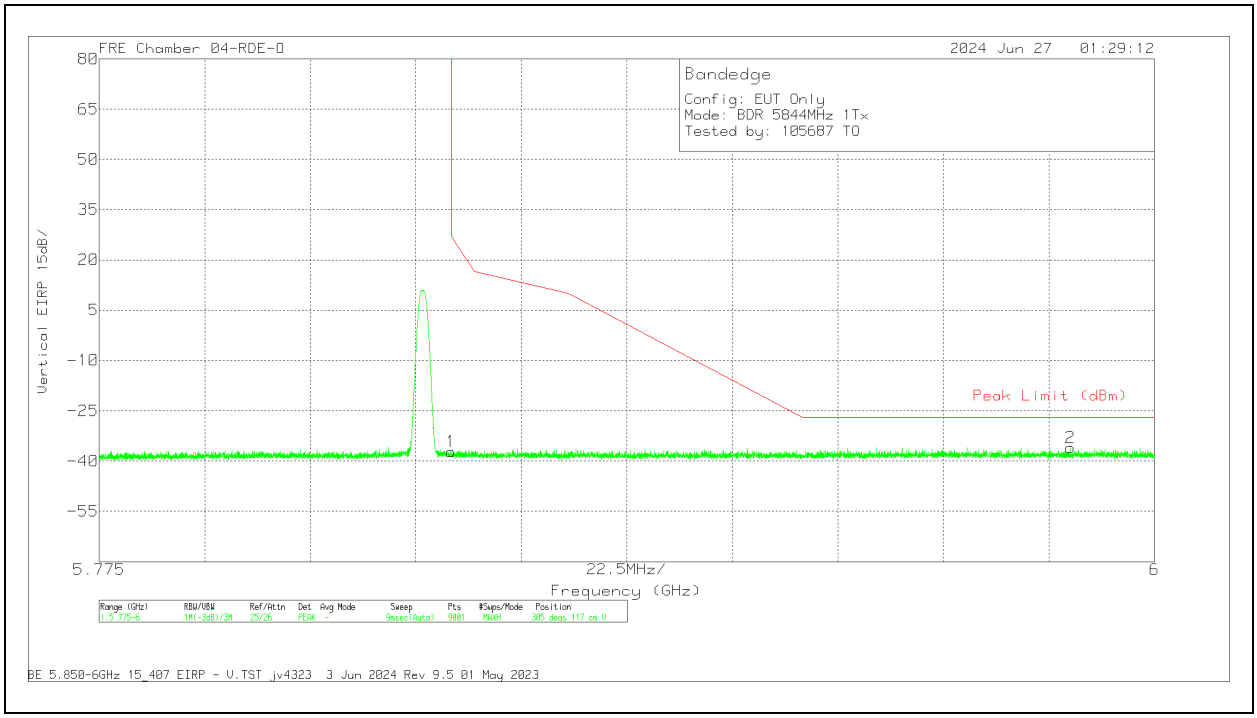
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -50.48 | Pk | 35.4 | 11.8 | -33.8 | -37.08 | 27 | -64.08 | 305 | 117 | V |
| 2 | 5.982075 | -49.71 | Pk | 35.6 | 11.8 | -33.7 | -36.01 | -27 | -9.01 | 305 | 117 | V |

Pk - Peak detector



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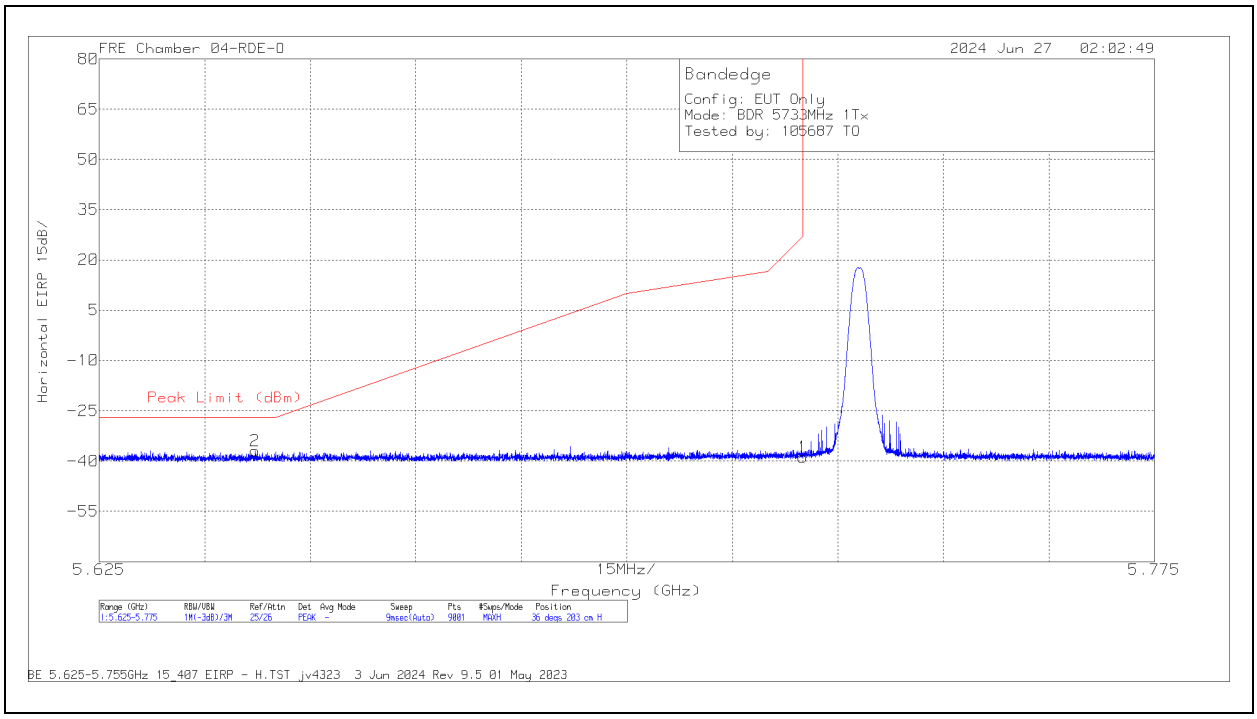
## ANT 6 + ANT 5, MIMO TXBF MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.6472 | -49.88 | Pk | 35.1 | 11.8 | -34.02 | -37 | -27 | -10 | 36 | 203 | H |
| 1 | 5.725 | -51.68 | Pk | 35.2 | 11.8 | -34.1 | -38.78 | 27 | -65.78 | 36 | 203 | H |

Pk - Peak detector



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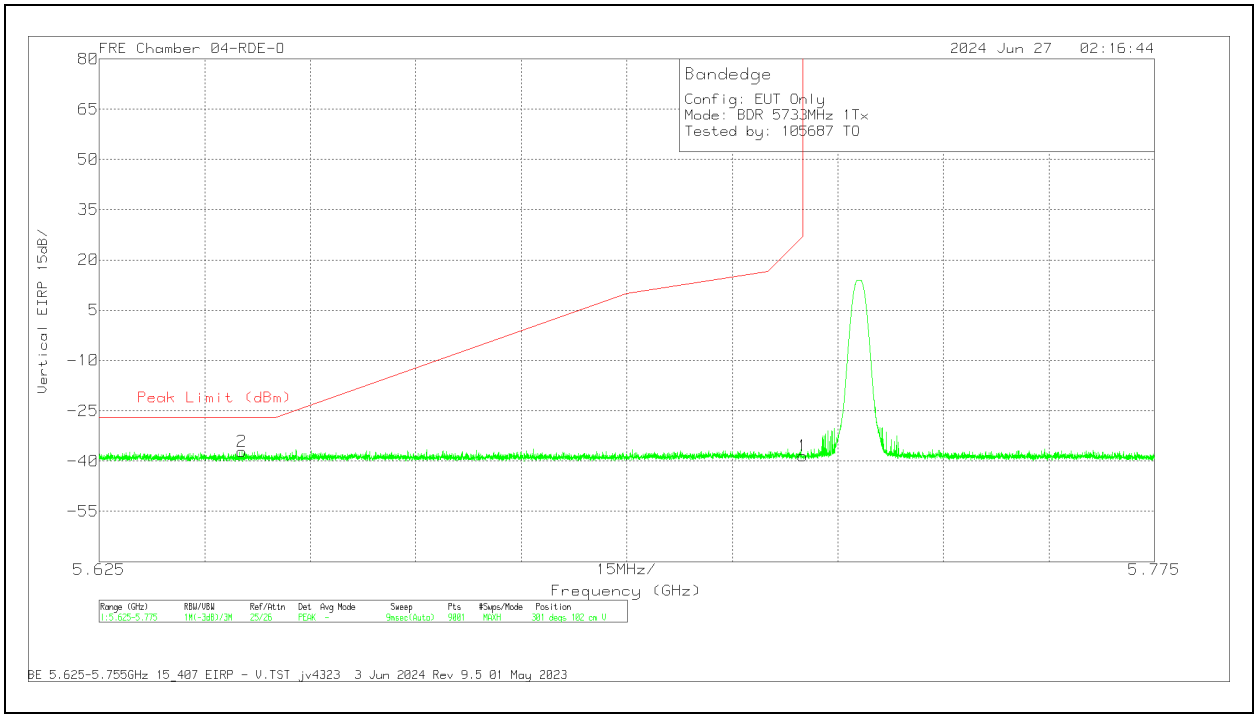
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.645267 | -49.78 | Pk | 35.1 | 11.8 | -34.27 | -37.15 | -27 | -10.15 | 301 | 102 | V |
| 1 | 5.725 | -51.39 | Pk | 35.2 | 11.8 | -34.1 | -38.49 | 27 | -65.49 | 301 | 102 | V |

Pk - Peak detector



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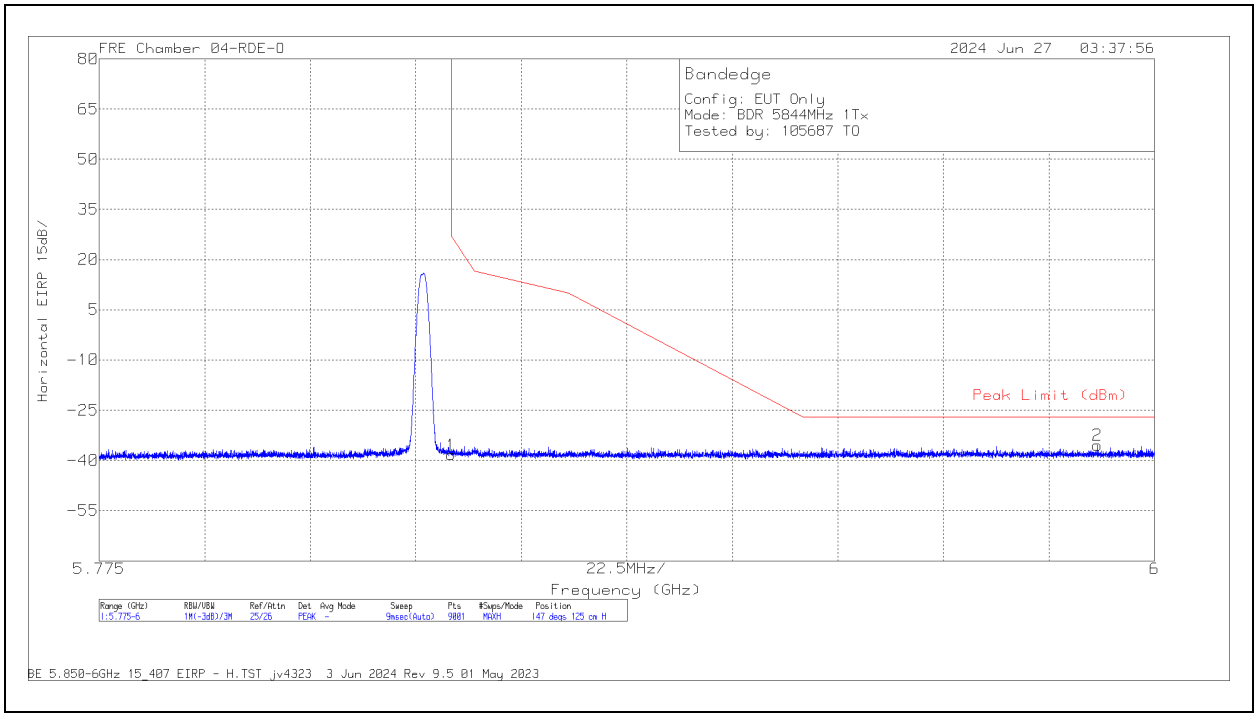
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.76 | Pk | 35.4 | 11.8 | -33.8 | -38.36 | 27 | -65.36 | 147 | 125 | H |
| 2 | 5.987775 | -49.35 | Pk | 35.6 | 11.8 | -33.52 | -35.47 | -27 | -8.47 | 147 | 125 | H |

Pk - Peak detector



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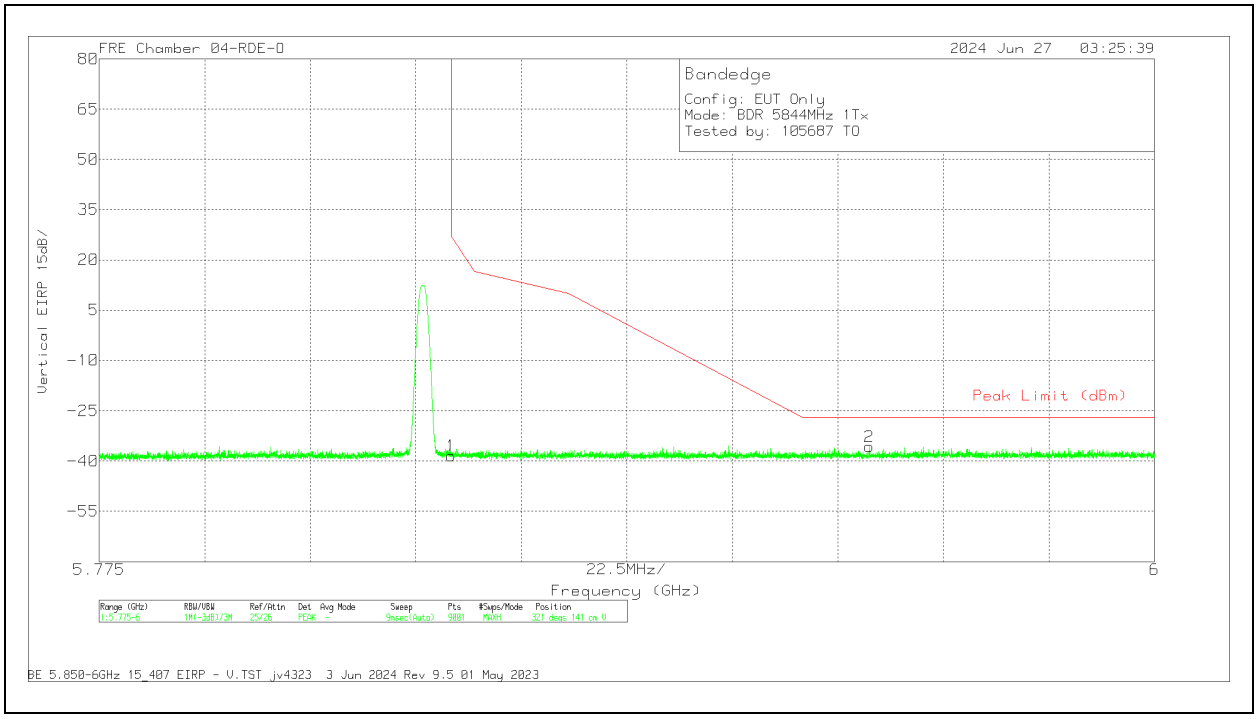
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.89 | Pk | 35.4 | 11.8 | -33.8 | -38.49 | 27 | -65.49 | 321 | 141 | V |
| 2 | 5.939225 | -49.53 | Pk | 35.5 | 11.8 | -33.5 | -35.73 | -27 | -8.73 | 321 | 141 | V |

Pk - Peak detector



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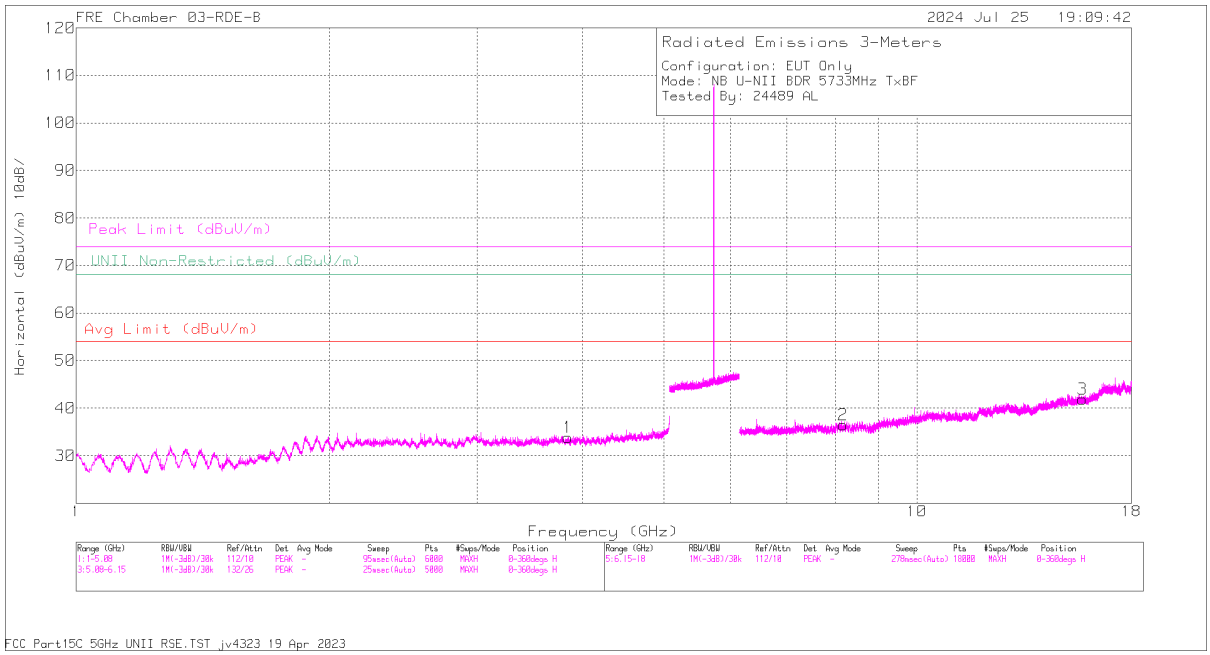
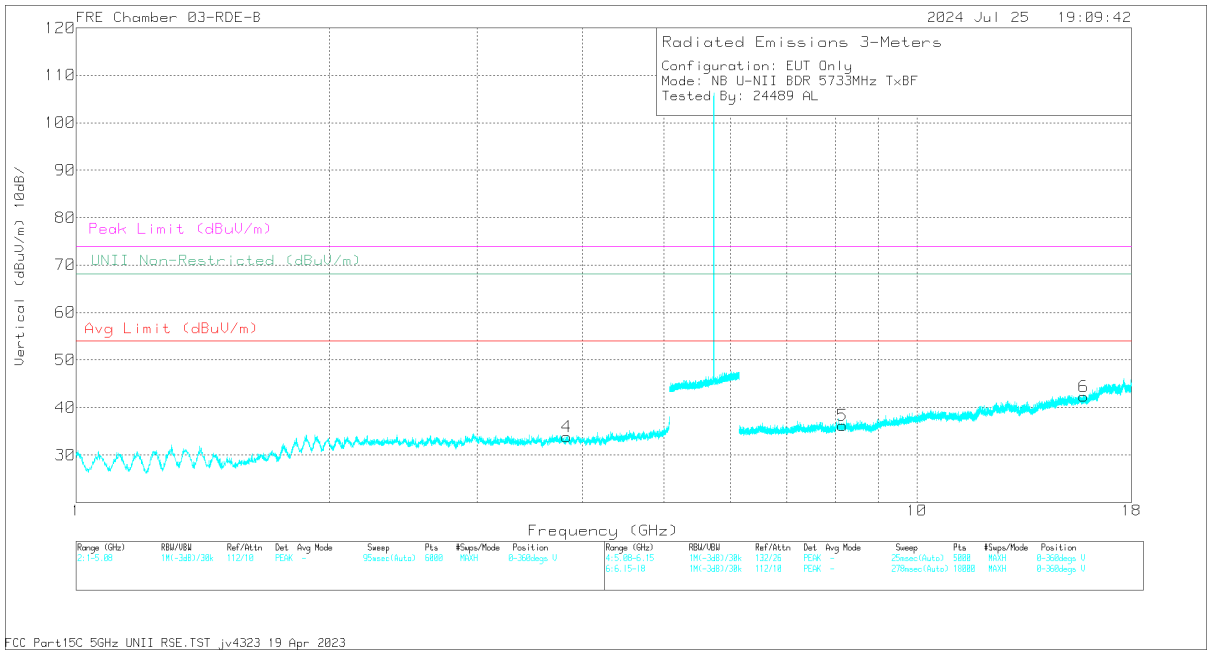
## 10.1.14. BDR HIGH POWER, UNII-3 BAND, HARMONIC AND SPURIOUS

### LOW CHANNEL, 5733 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 3.847278 | 59.16 | PK-U | 33.6 | -48.07 | 44.69 | - | - | 74 | -29.31 | 1 | 200 | H |
| | * 3.845652 | 46.57 | ADR | 33.6 | -48 | 32.17 | 54 | -21.83 | - | - | 1 | 200 | H |
| 4 | * 3.834499 | 58.11 | PK-U | 33.6 | -48 | 43.71 | - | - | 74 | -30.29 | 1 | 200 | V |
| | * 3.835309 | 46.63 | ADR | 33.6 | -48 | 32.23 | 54 | -21.77 | - | - | 1 | 200 | V |
| 2 | * 8.178919 | 57.39 | PK-U | 36.1 | -47.09 | 46.4 | - | - | 74 | -27.6 | 1 | 200 | H |
| | * 8.17687 | 45.58 | ADR | 36.1 | -47 | 34.68 | 54 | -19.32 | - | - | 1 | 200 | H |
| 3 | * 15.74675 | 58.18 | PK-U | 40.2 | -46.7 | 51.68 | - | - | 74 | -22.32 | 1 | 200 | H |
| | * 15.74480 | 46.44 | ADR | 40.2 | -46.7 | 39.94 | 54 | -14.06 | - | - | 1 | 200 | H |
| 5 | * 8.162685 | 56.84 | PK-U | 36.1 | -46.9 | 46.04 | - | - | 74 | -27.96 | 1 | 200 | V |
| | * 8.162507 | 45.45 | ADR | 36.1 | -46.9 | 34.65 | 54 | -19.35 | - | - | 1 | 200 | V |
| 6 | * 15.80554 | 58.36 | PK-U | 40.3 | -46.5 | 52.16 | - | - | 74 | -21.84 | 1 | 101 | V |
| | * 15.80557 | 46.69 | ADR | 40.3 | -46.5 | 40.49 | 54 | -13.51 | - | - | 1 | 101 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average


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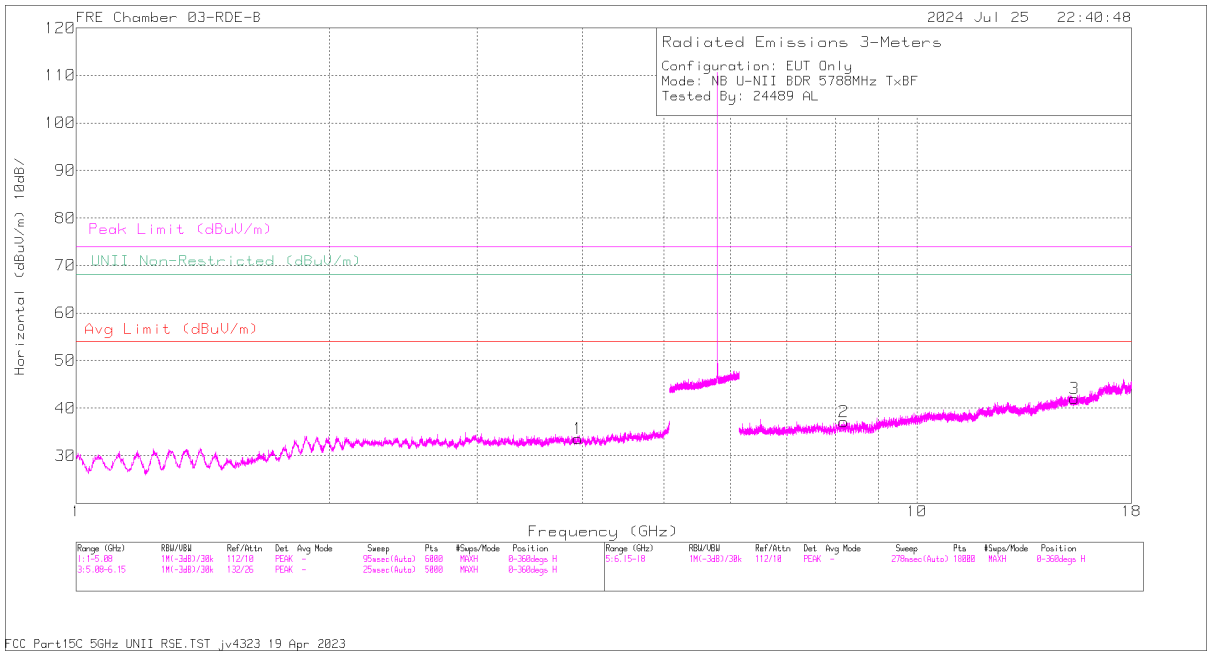
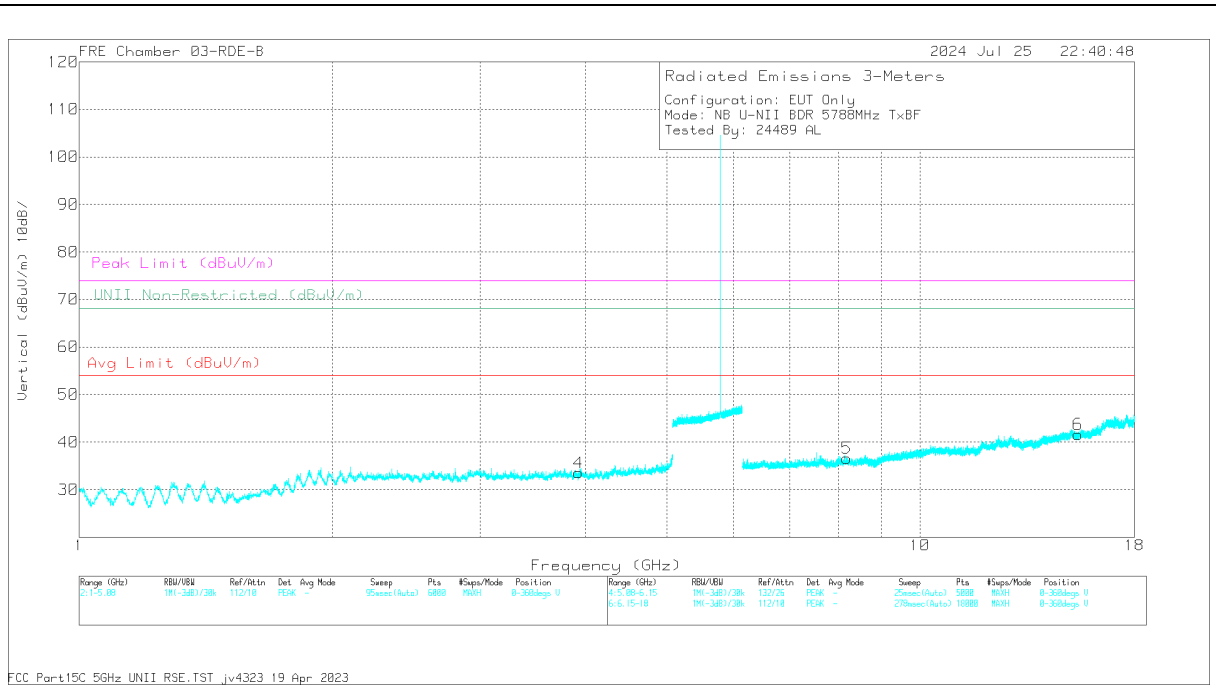
## MID CHANNEL, 5788 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 3.95291 | 58.65 | PK-U | 33.6 | -48.29 | 43.96 | - | - | 74 | -30.04 | 0 | 101 | H |
| | * 3.953176 | 46.87 | ADR | 33.6 | -48.3 | 32.17 | 54 | -21.83 | - | - | 0 | 101 | H |
| 4 | * 3.929508 | 58.02 | PK-U | 33.6 | -48.3 | 43.32 | - | - | 74 | -30.68 | 0 | 101 | V |
| | * 3.929691 | 46.52 | ADR | 33.6 | -48.3 | 31.82 | 54 | -22.18 | - | - | 0 | 101 | V |
| 2 | * 8.190624 | 57.29 | PK-U | 36.1 | -47.1 | 46.29 | - | - | 74 | -27.71 | 0 | 101 | H |
| | * 8.190049 | 46.12 | ADR | 36.1 | -47.1 | 35.12 | 54 | -18.88 | - | - | 0 | 101 | H |
| 3 | * 15.39039 | 58.8 | PK-U | 39.9 | -46.6 | 52.1 | - | - | 74 | -21.9 | 0 | 200 | H |
| | * 15.39199 | 46.72 | ADR | 39.9 | -46.6 | 40.02 | 54 | -13.98 | - | - | 0 | 200 | H |
| 5 | * 8.192151 | 58.2 | PK-U | 36.1 | -47.1 | 47.2 | - | - | 74 | -26.8 | 0 | 200 | V |
| | * 8.190107 | 46.23 | ADR | 36.1 | -47.1 | 35.23 | 54 | -18.77 | - | - | 0 | 200 | V |
| 6 | * 15.41948 | 58.91 | PK-U | 39.9 | -46.8 | 52.01 | - | - | 74 | -21.99 | 0 | 101 | V |
| | * 15.42233 | 47.04 | ADR | 40 | -46.8 | 40.24 | 54 | -13.76 | - | - | 0 | 101 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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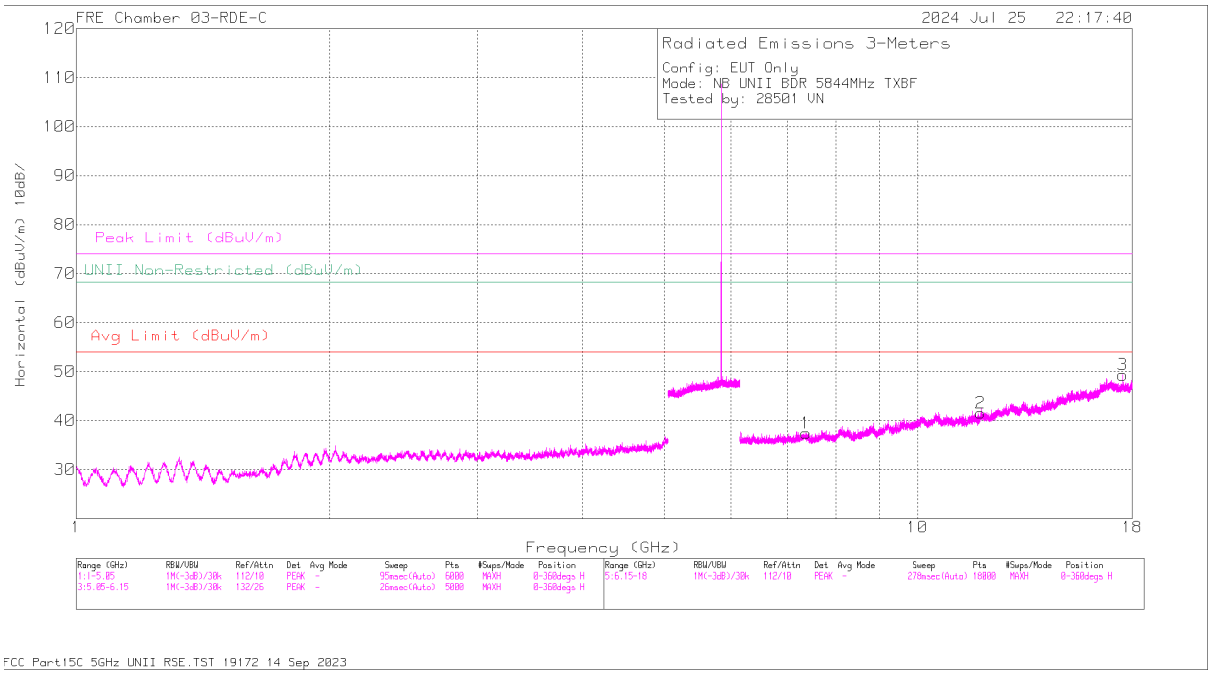
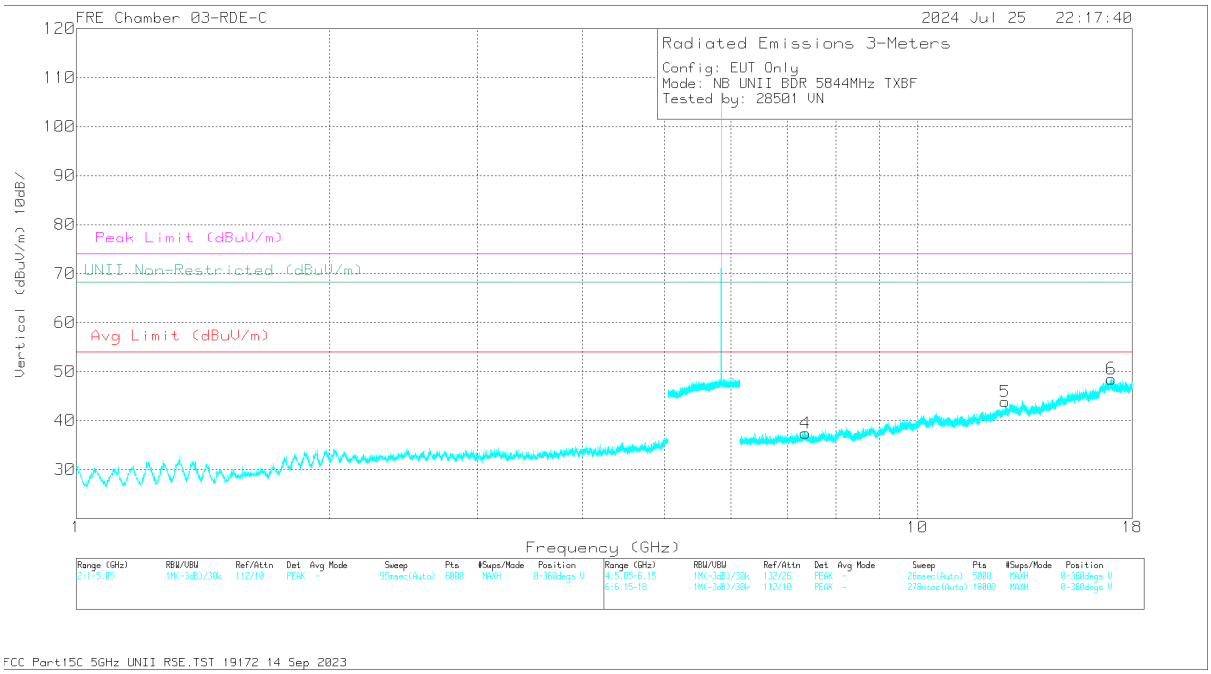
## HIGH CHANNEL, 5844 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230384 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.37408 | 57.9 | PK-U | 35.7 | -45.5 | 48.1 | - | - | 74 | -25.9 | - | - | 116 | 371 | H |
| | * 7.37956 | 45.9 | ADR | 35.7 | -45.5 | 36.1 | 54 | -17.9 | - | - | - | - | 116 | 371 | H |
| 2 | * 11.8900 | 55.3 | PK-U | 38.3 | -42.6 | 51 | - | - | 74 | -23 | - | - | 167 | 153 | H |
| | * 11.8919 | 43.77 | ADR | 38.3 | -42.6 | 39.47 | 54 | -14.53 | - | - | - | - | 167 | 153 | H |
| 4 | * 7.36522 | 57.1 | PK-U | 35.7 | -45.4 | 47.4 | - | - | 74 | -26.6 | - | - | 208 | 105 | V |
| | * 7.36608 | 45.57 | ADR | 35.7 | -45.4 | 35.87 | 54 | -18.13 | - | - | - | - | 208 | 105 | V |
| 5 | 12.702289 | 56.98 | PK-U | 39.2 | -43.5 | 52.68 | - | - | - | - | 68.2 | -15.52 | 0 | 117 | V |
| 6 | 16.995868 | 58.05 | PK-U | 41.9 | -42.71 | 57.24 | - | - | - | - | 68.2 | -10.96 | 89 | 233 | V |
| 3 | 17.532166 | 60.33 | PK-U | 41 | -43.08 | 58.25 | - | - | - | - | 68.2 | -9.95 | 267 | 206 | H |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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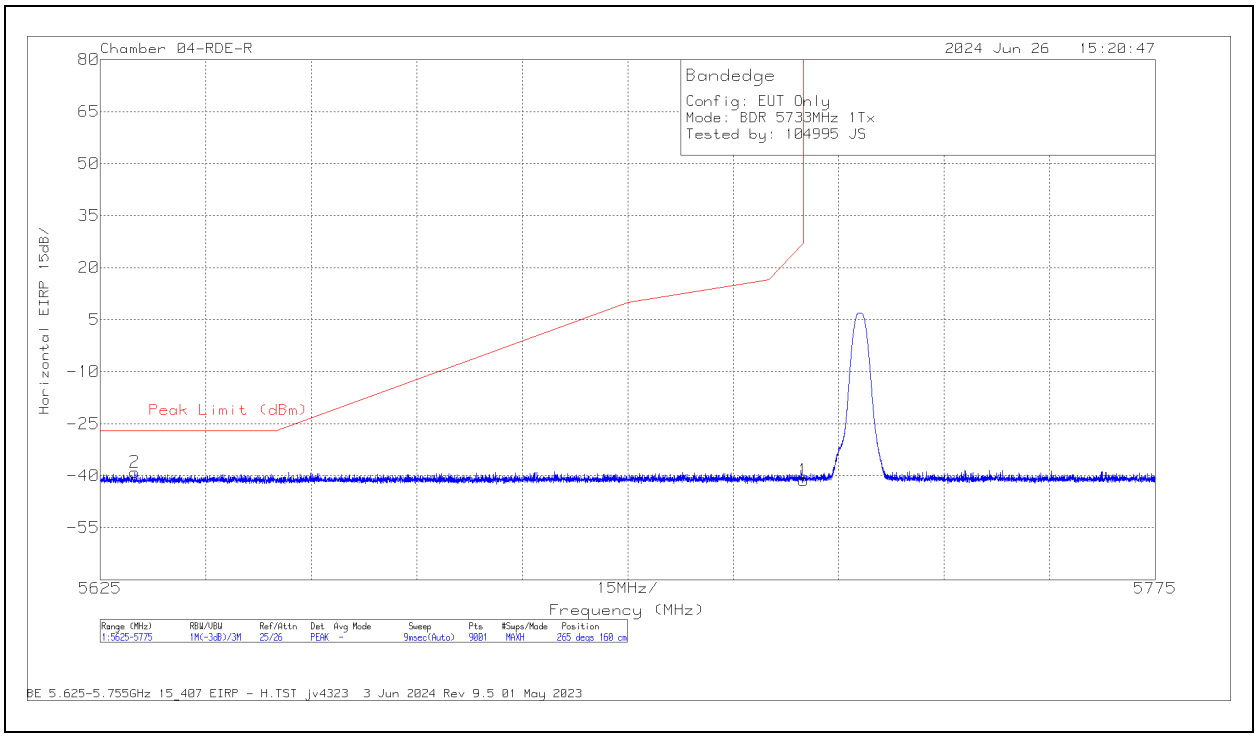
## 10.1.15. BDR LOW POWER, UNII-3 BAND, BANDEDGE

## ANT 6, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 41112 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5629.883 | -48.64 | Pk | 34.8 | 11.8 | -36.94 | -38.98 | -27 | -11.98 | 265 | 160 | H |
| 1 | 5725 | -51.11 | Pk | 34.9 | 11.8 | -36.86 | -41.27 | 27 | -68.27 | 265 | 160 | H |

Pk - Peak detector



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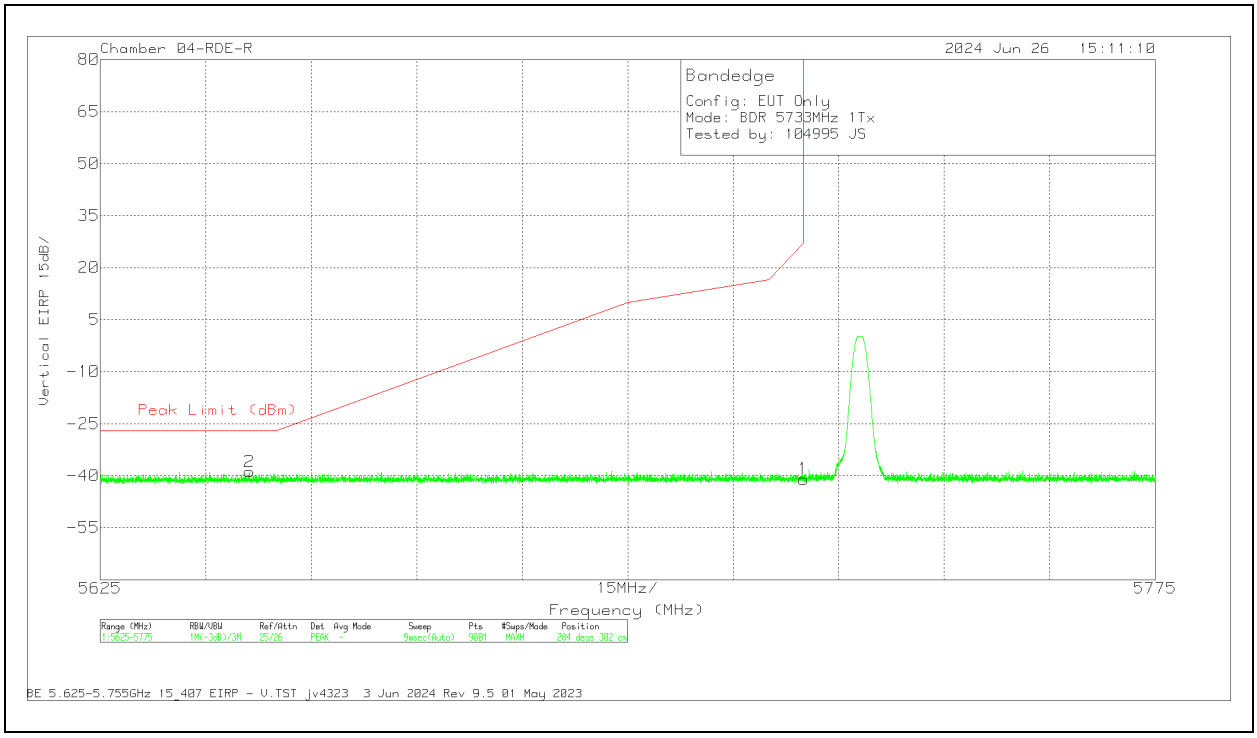
## VERTICAL RESULT




| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 41112 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5646.2 | -48.55 | Pk | 34.8 | 11.8 | -36.9 | -38.85 | -27 | -11.85 | 284 | 302 | V |
| 1 | 5725 | -50.77 | Pk | 34.9 | 11.8 | -36.86 | -40.93 | 27 | -67.93 | 284 | 302 | V |

Pk - Peak detector



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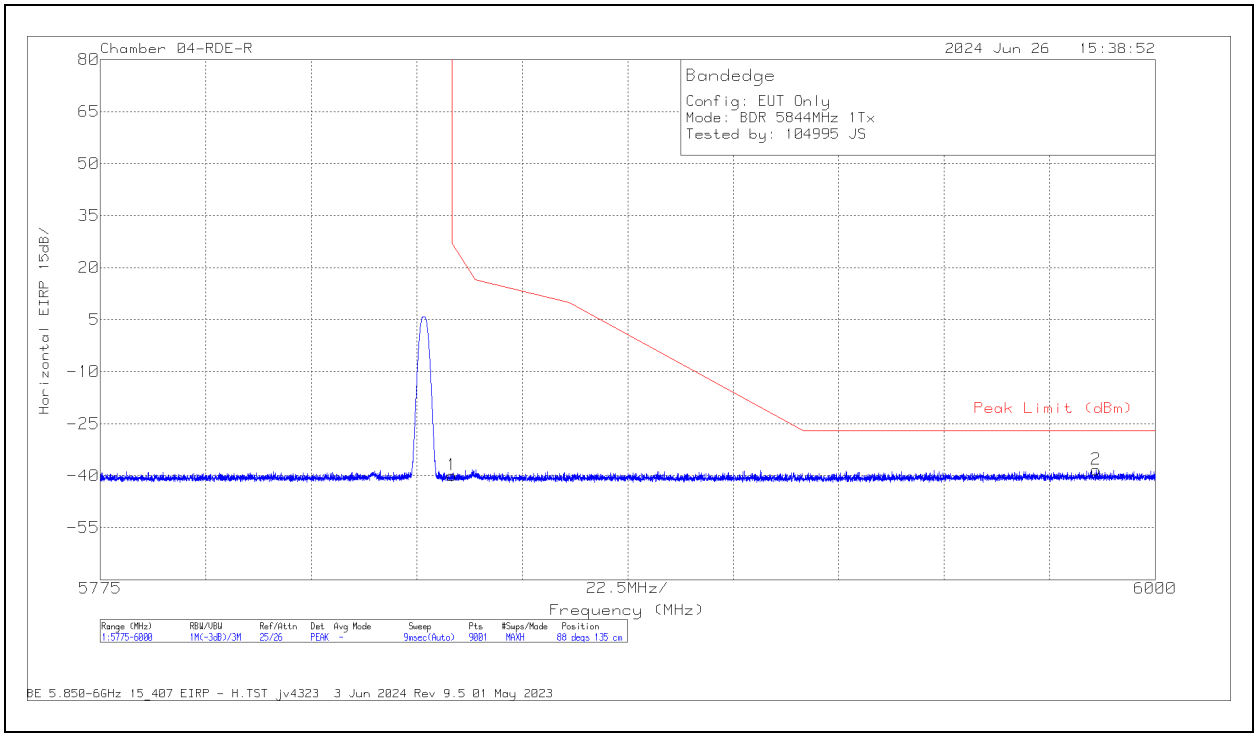
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 41112 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5850 | -50.01 | Pk | 35.1 | 11.8 | -36.73 | -39.84 | 27 | -66.84 | 88 | 135 | H |
| 2 | 5987.425 | -48.56 | Pk | 35.2 | 11.8 | -36.64 | -38.2 | -27 | -11.2 | 88 | 135 | H |

Pk - Peak detector



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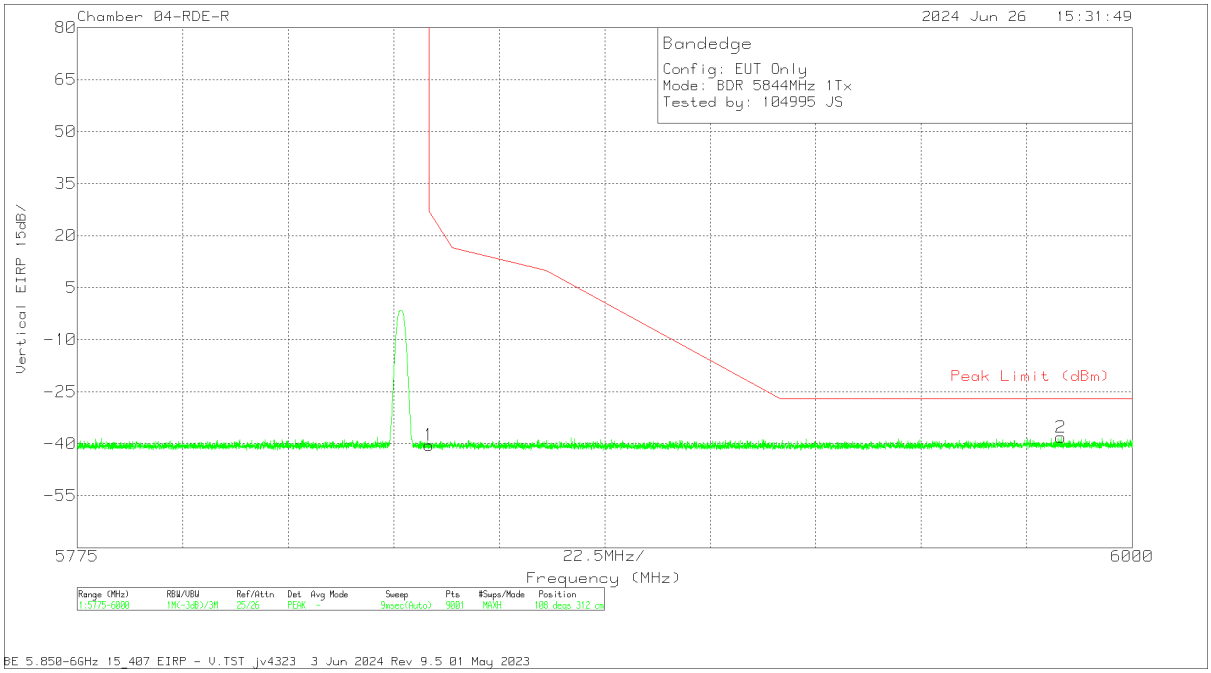
## VERTICAL RESULT




| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | 41112 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5850 | -50.61 | Pk | 35.1 | 11.8 | -36.73 | -40.44 | 27 | -67.44 | 108 | 312 | V |
| 2 | 5984.775 | -48.5 | Pk | 35.2 | 11.8 | -36.65 | -38.15 | -27 | -11.15 | 108 | 312 | V |

Pk - Peak detector



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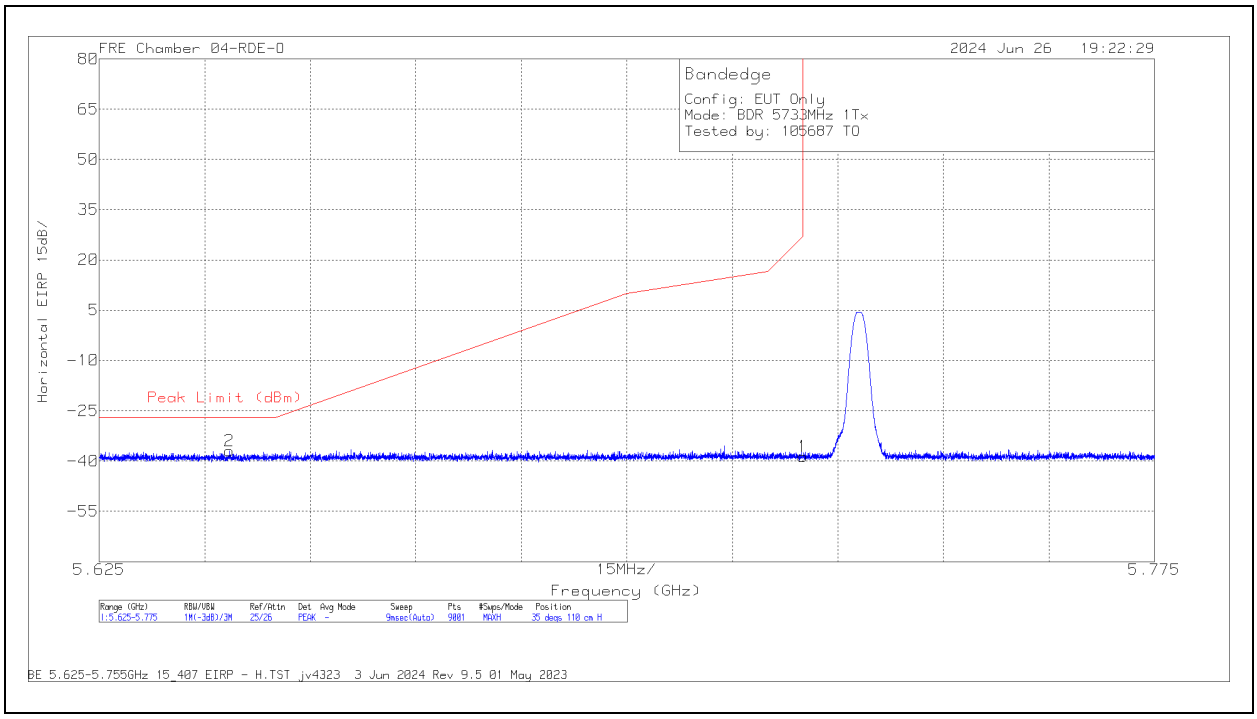
## ANT 5, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.643484 | -49.62 | Pk | 35.1 | 11.8 | -34.25 | -36.97 | -27 | -9.97 | 35 | 110 | H |
| 1 | 5.725 | -51.57 | Pk | 35.2 | 11.8 | -34.1 | -38.67 | 27 | -65.67 | 35 | 110 | H |

Pk - Peak detector



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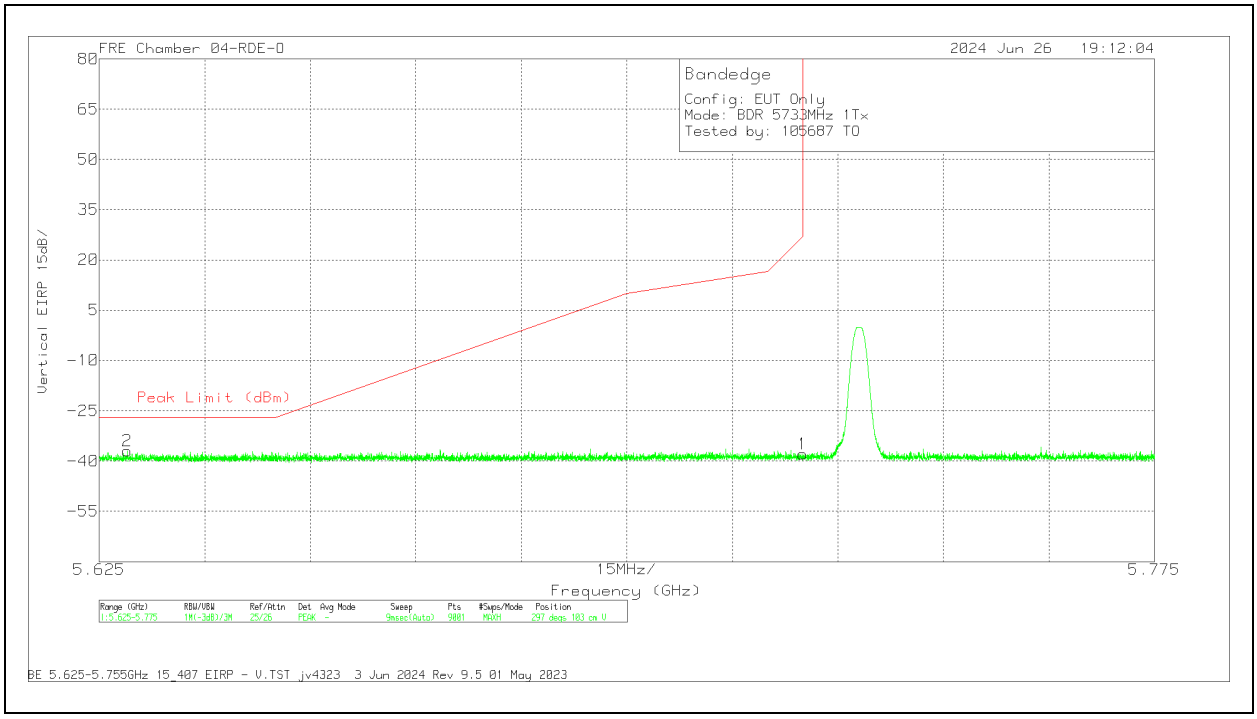
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.628983 | -49.75 | Pk | 35.1 | 11.8 | -34.1 | -36.95 | -27 | -9.95 | 297 | 103 | V |
| 1 | 5.725 | -50.77 | Pk | 35.2 | 11.8 | -34.1 | -37.87 | 27 | -64.87 | 297 | 103 | V |

Pk - Peak detector



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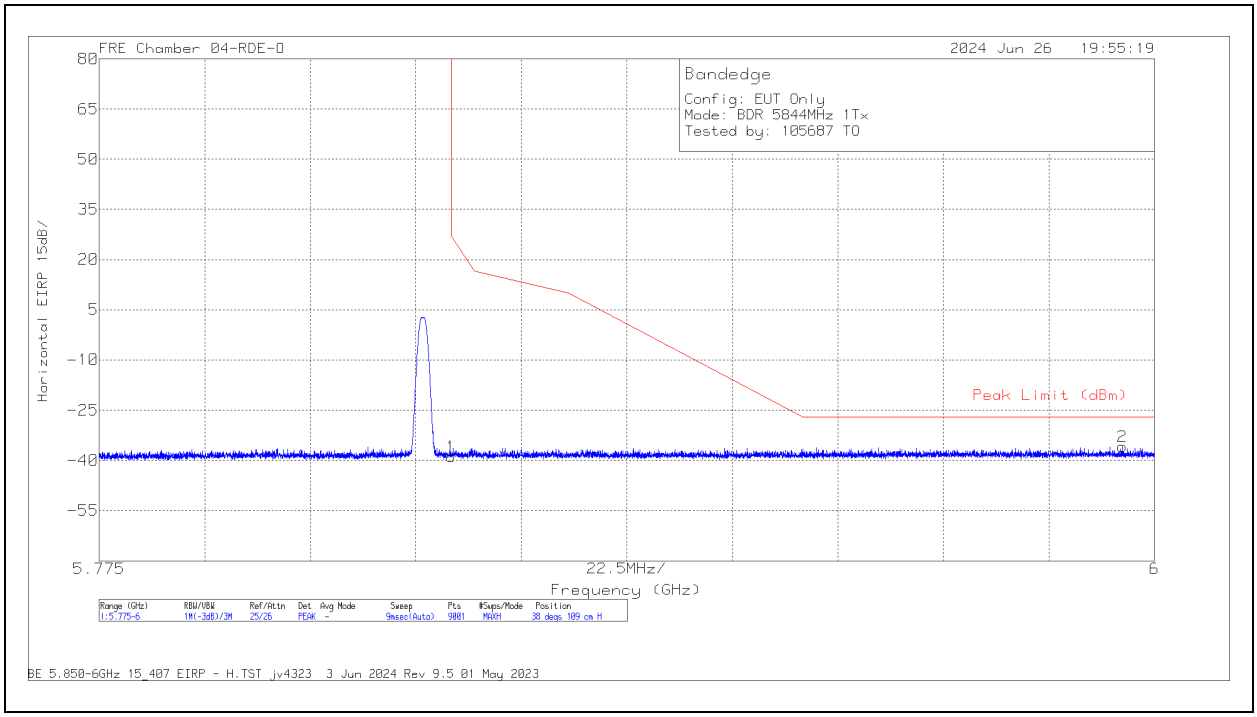
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.32 | Pk | 35.4 | 11.8 | -33.8 | -38.92 | 27 | -65.92 | 38 | 109 | H |
| 2 | 5.99315 | -49.79 | Pk | 35.6 | 11.8 | -33.52 | -35.91 | -27 | -8.91 | 38 | 109 | H |

Pk - Peak detector



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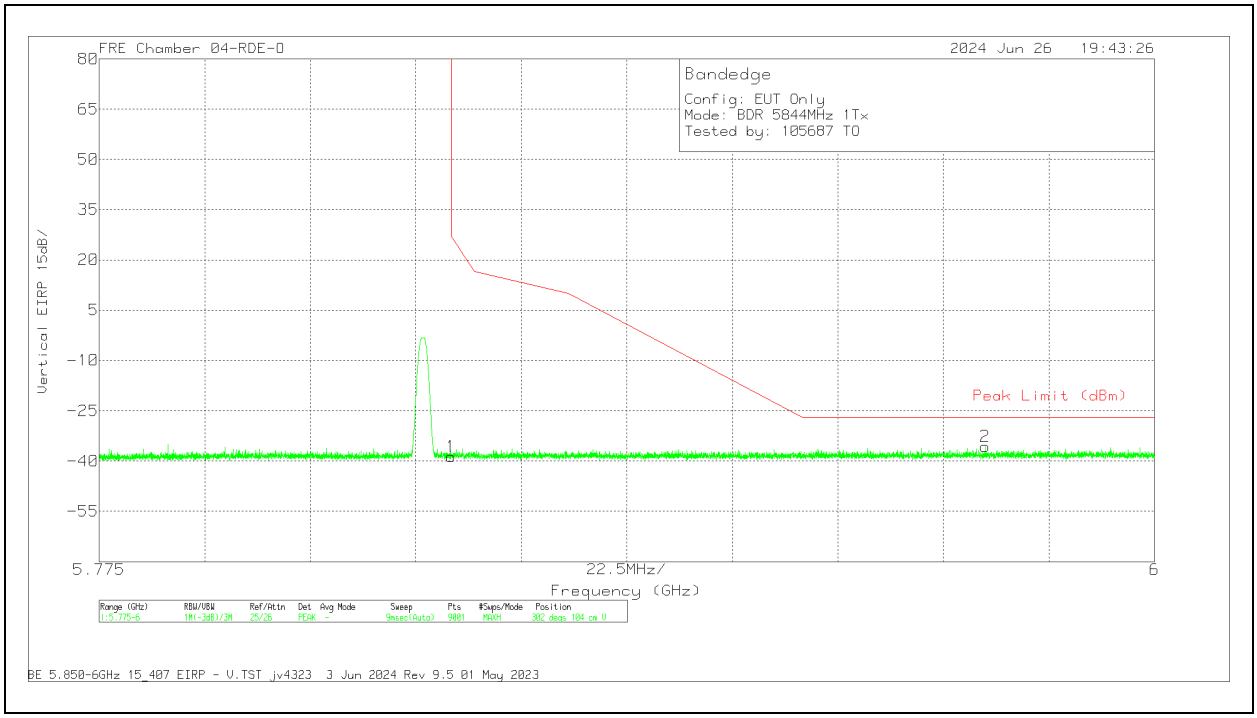
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.09 | Pk | 35.4 | 11.8 | -33.8 | -38.69 | 27 | -65.69 | 302 | 104 | V |
| 2 | 5.96395 | -49.49 | Pk | 35.6 | 11.8 | -33.61 | -35.7 | -27 | -8.7 | 302 | 104 | V |

Pk - Peak detector



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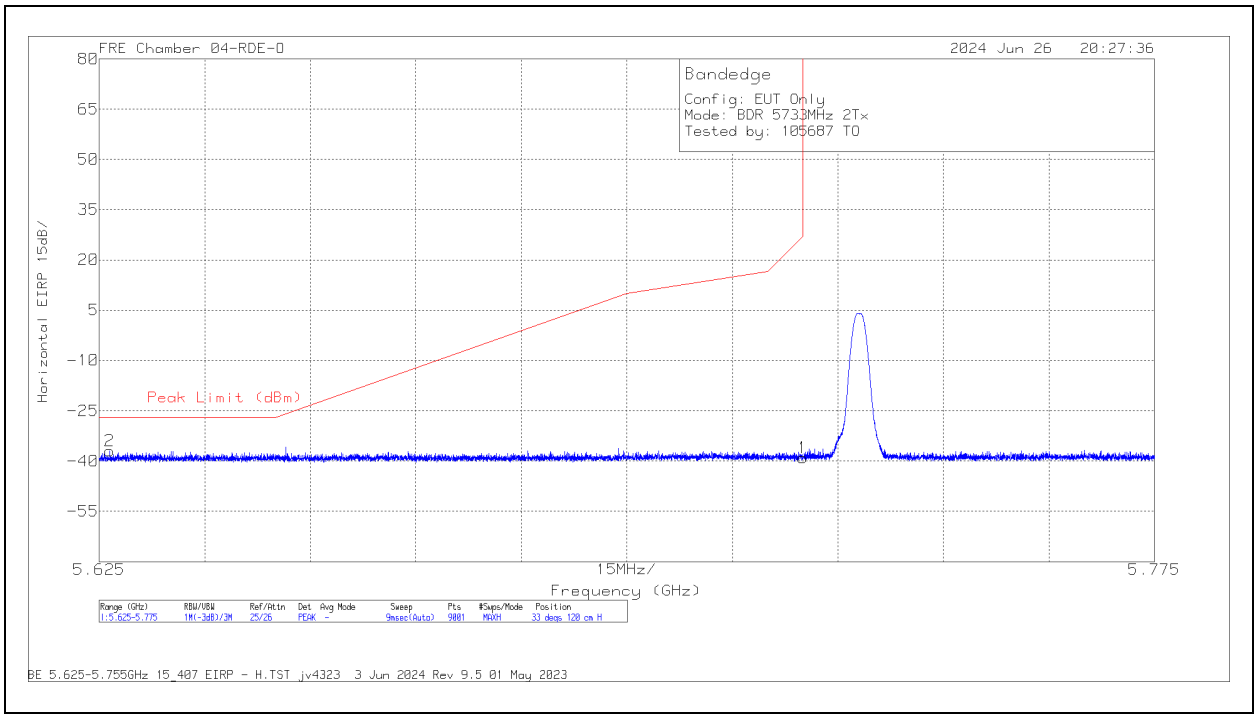
## ANT 6 + ANT 5, MIMO TXBF MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.626483 | -49.61 | Pk | 35.1 | 11.8 | -34.2 | -36.91 | -27 | -9.91 | 33 | 120 | H |
| 1 | 5.725 | -51.97 | Pk | 35.2 | 11.8 | -34.1 | -39.07 | 27 | -66.07 | 33 | 120 | H |

Pk - Peak detector



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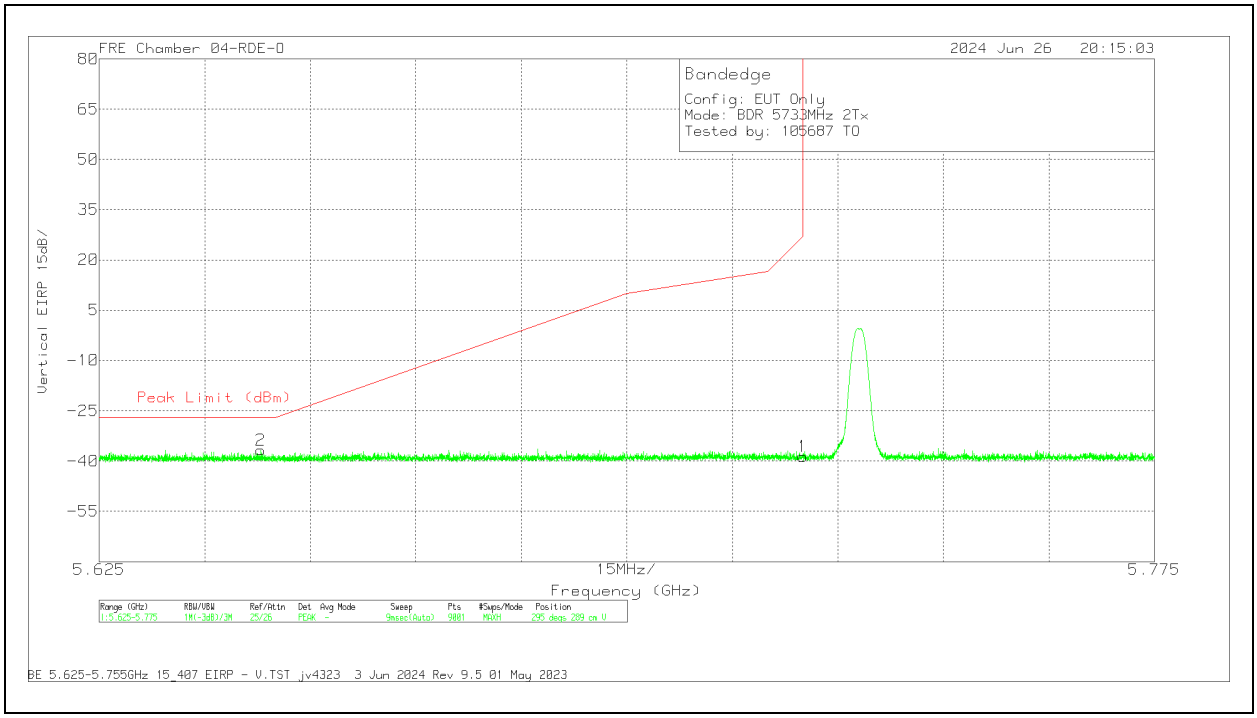
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.648 | -49.49 | Pk | 35.1 | 11.8 | -34.1 | -36.69 | -27 | -9.69 | 295 | 289 | V |
| 1 | 5.725 | -51.58 | Pk | 35.2 | 11.8 | -34.1 | -38.68 | 27 | -65.68 | 295 | 289 | V |

Pk - Peak detector



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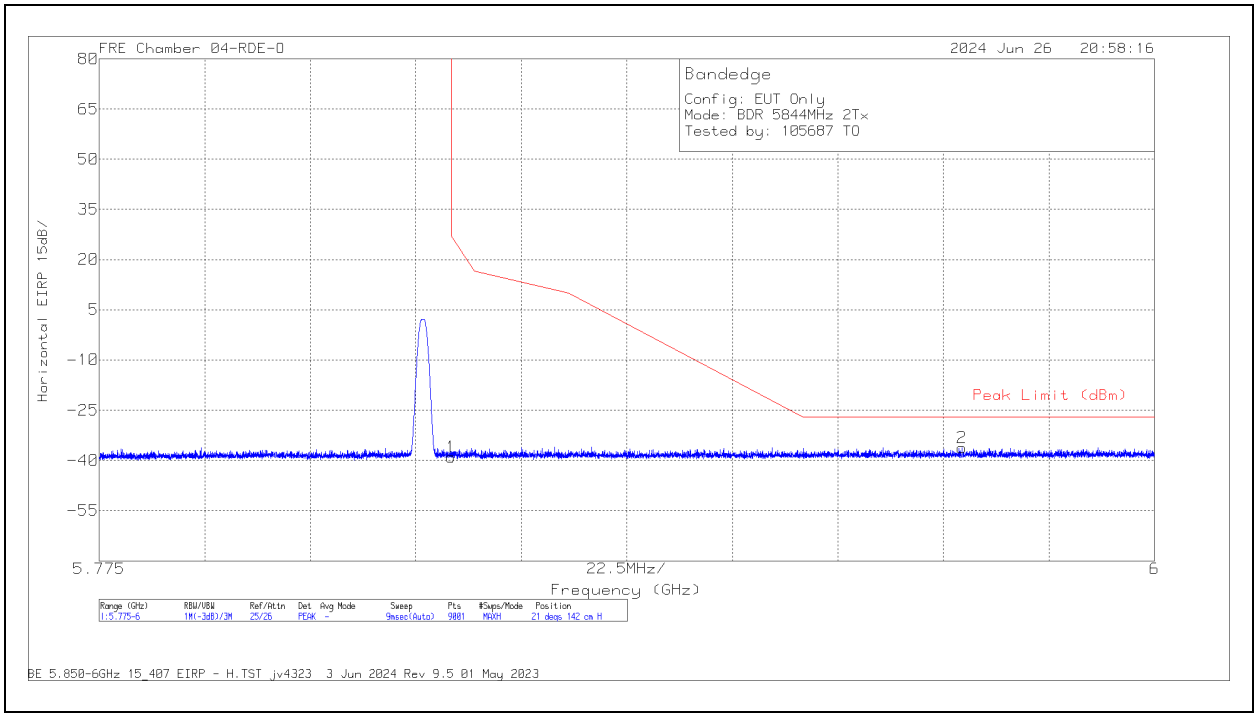
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.4 | Pk | 35.4 | 11.8 | -33.8 | -39 | 27 | -66 | 21 | 142 | H |
| 2 | 5.95895 | -49.93 | Pk | 35.6 | 11.8 | -33.6 | -36.13 | -27 | -9.13 | 21 | 142 | H |

Pk - Peak detector



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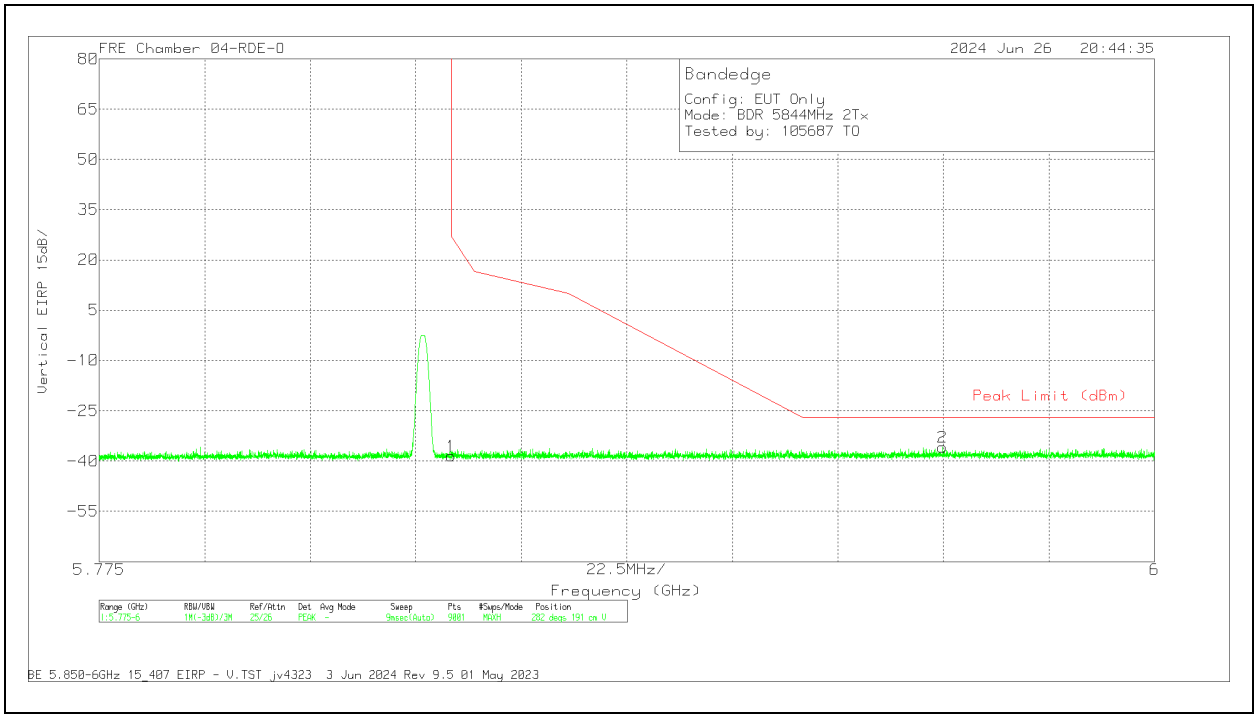
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.95 | Pk | 35.4 | 11.8 | -33.8 | -38.55 | 27 | -65.55 | 282 | 191 | V |
| 2 | 5.95485 | -49.81 | Pk | 35.6 | 11.8 | -33.5 | -35.91 | -27 | -8.91 | 282 | 191 | V |

Pk - Peak detector



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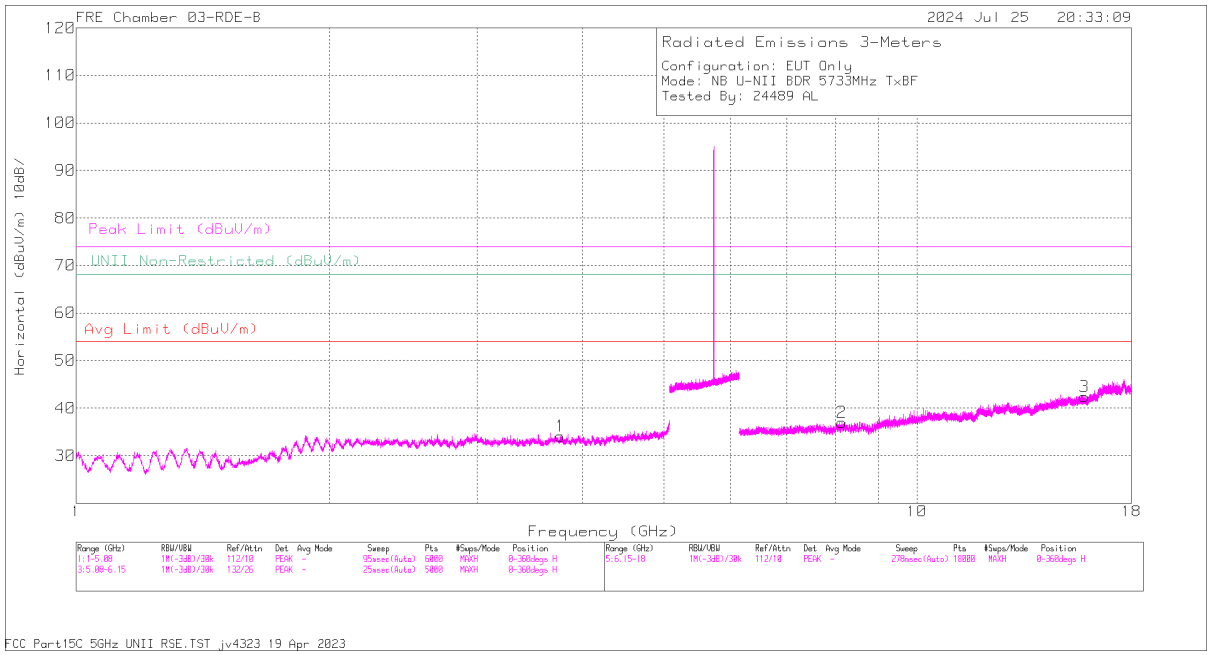
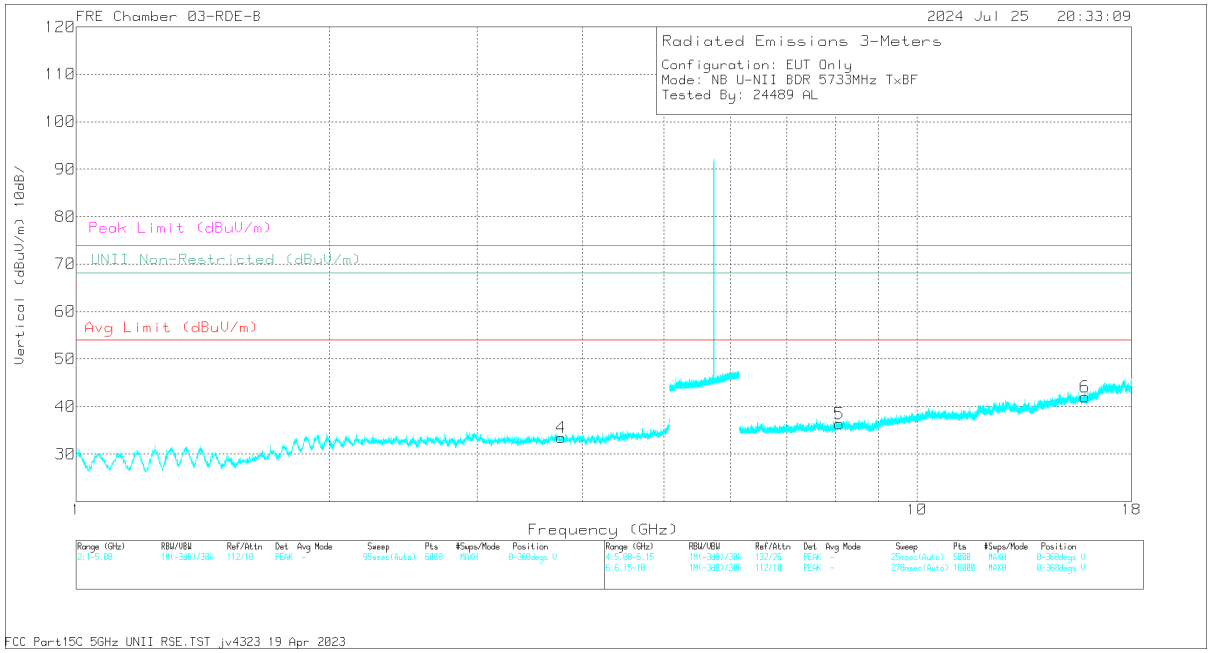
## 10.1.16. BDR LOW POWER, UNII-3 BAND, HARMONIC AND SPURIOUS

### LOW CHANNEL, 5733 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 3.764026 | 58.09 | PK-U | 33.6 | -47.9 | 43.79 | - | - | 74 | -30.21 | 0 | 200 | H |
| | * 3.764538 | 46.37 | ADR | 33.6 | -47.9 | 32.07 | 54 | -21.93 | - | - | 0 | 200 | H |
| 4 | * 3.774544 | 58.72 | PK-U | 33.6 | -47.9 | 44.42 | - | - | 74 | -29.58 | 0 | 200 | V |
| | * 3.776263 | 46.51 | ADR | 33.6 | -47.9 | 32.21 | 54 | -21.79 | - | - | 0 | 200 | V |
| 2 | * 8.147697 | 57.07 | PK-U | 36.1 | -46.9 | 46.27 | - | - | 74 | -27.73 | 0 | 200 | H |
| | * 8.147728 | 45.57 | ADR | 36.1 | -46.9 | 34.77 | 54 | -19.23 | - | - | 0 | 200 | H |
| 3 | * 15.82189 | 58.69 | PK-U | 40.3 | -46.5 | 52.49 | - | - | 74 | -21.51 | 0 | 200 | H |
| | * 15.82083 | 46.92 | ADR | 40.3 | -46.5 | 40.72 | 54 | -13.28 | - | - | 0 | 200 | H |
| 5 | * 8.086956 | 57.36 | PK-U | 36.1 | -47.1 | 46.36 | - | - | 74 | -27.64 | 0 | 101 | V |
| | * 8.086676 | 45.68 | ADR | 36.1 | -47.1 | 34.68 | 54 | -19.32 | - | - | 0 | 101 | V |
| 6 | * 15.85907 | 58.38 | PK-U | 40.3 | -46.6 | 52.08 | - | - | 74 | -21.92 | 0 | 200 | V |
| | * 15.86130 | 46.73 | ADR | 40.3 | -46.57 | 40.46 | 54 | -13.54 | - | - | 0 | 200 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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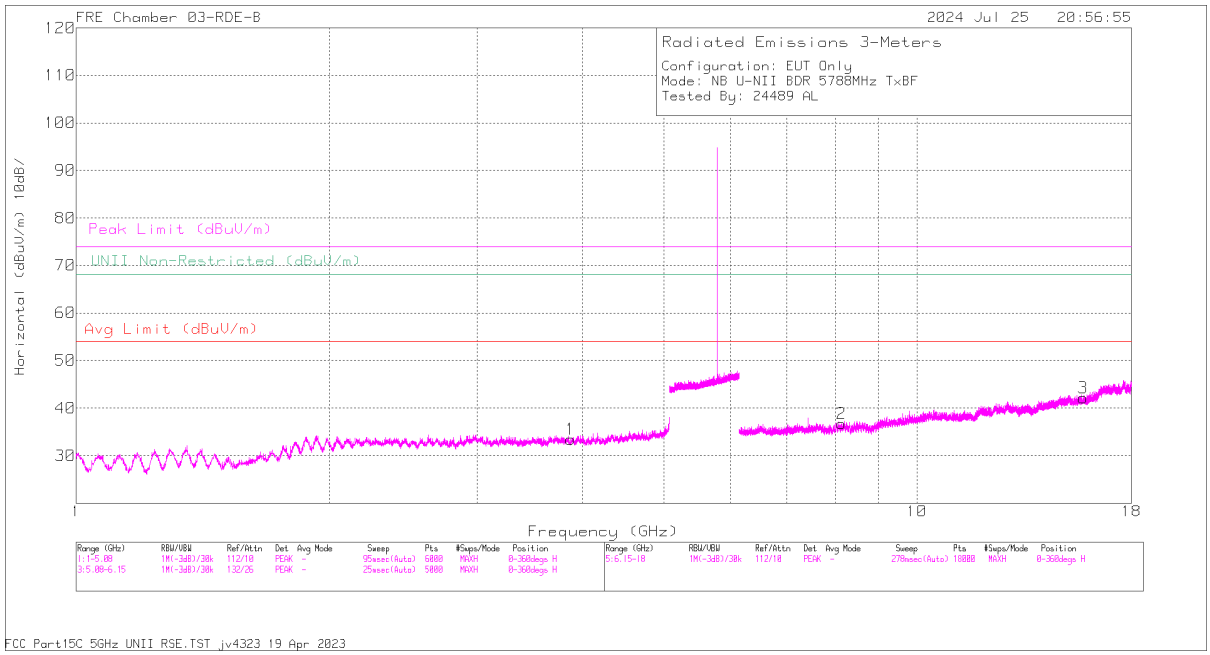
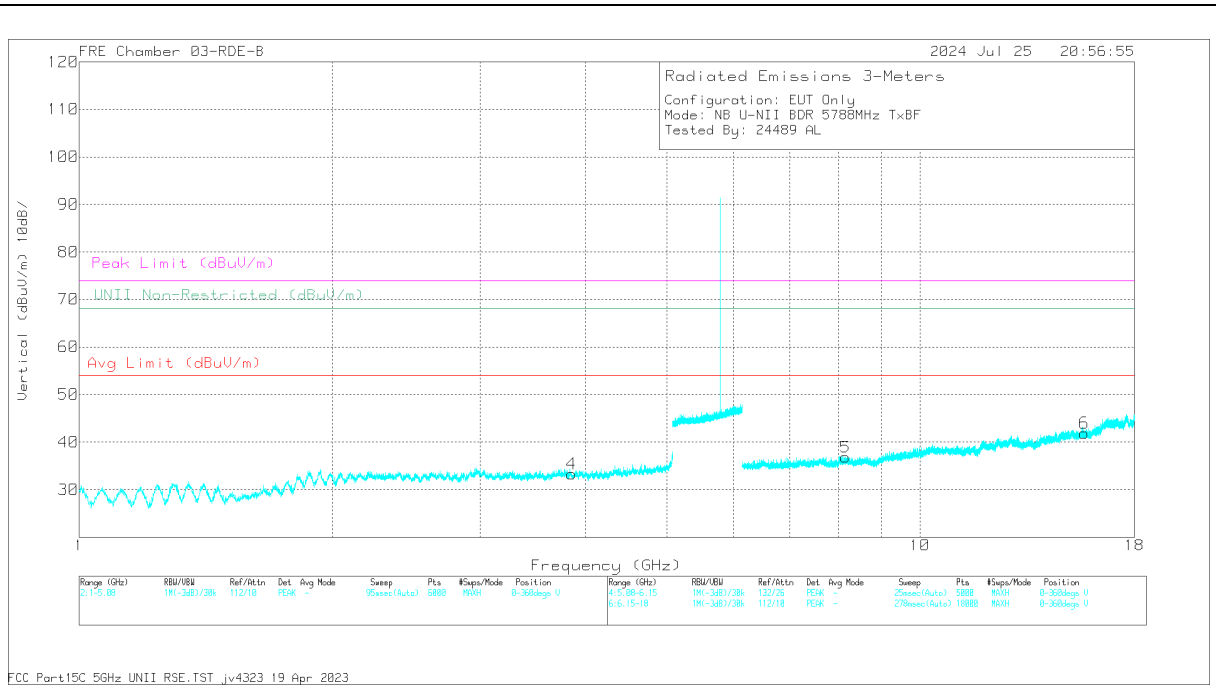
## MID CHANNEL, 5788 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 3.875856 | 58.89 | PK-U | 33.6 | -48.2 | 44.29 | - | - | 74 | -29.71 | 0 | 101 | H |
| | * 3.874212 | 46.25 | ADR | 33.6 | -48.2 | 31.65 | 54 | -22.35 | - | - | 0 | 101 | H |
| 4 | * 3.850911 | 57.98 | PK-U | 33.6 | -48.1 | 43.48 | - | - | 74 | -30.52 | 0 | 101 | V |
| | * 3.849629 | 46.53 | ADR | 33.6 | -48.1 | 32.03 | 54 | -21.97 | - | - | 0 | 101 | V |
| 2 | * 8.136587 | 57.08 | PK-U | 36.1 | -46.9 | 46.28 | - | - | 74 | -27.72 | 0 | 101 | H |
| | * 8.135301 | 45.84 | ADR | 36.1 | -46.9 | 35.04 | 54 | -18.96 | - | - | 0 | 101 | H |
| 3 | * 15.76533 | 58.04 | PK-U | 40.3 | -46.77 | 51.57 | - | - | 74 | -22.43 | 0 | 200 | H |
| | * 15.76530 | 46.53 | ADR | 40.3 | -46.77 | 40.06 | 54 | -13.94 | - | - | 0 | 200 | H |
| 5 | * 8.155203 | 57.2 | PK-U | 36.1 | -46.9 | 46.4 | - | - | 74 | -27.6 | 0 | 101 | V |
| | * 8.153121 | 45.55 | ADR | 36.1 | -46.9 | 34.75 | 54 | -19.25 | - | - | 0 | 101 | V |
| 6 | * 15.69113 | 58.51 | PK-U | 40.2 | -46.6 | 52.11 | - | - | 74 | -21.89 | 0 | 200 | V |
| | * 15.69504 | 46.09 | ADR | 40.2 | -46.6 | 39.69 | 54 | -14.31 | - | - | 0 | 200 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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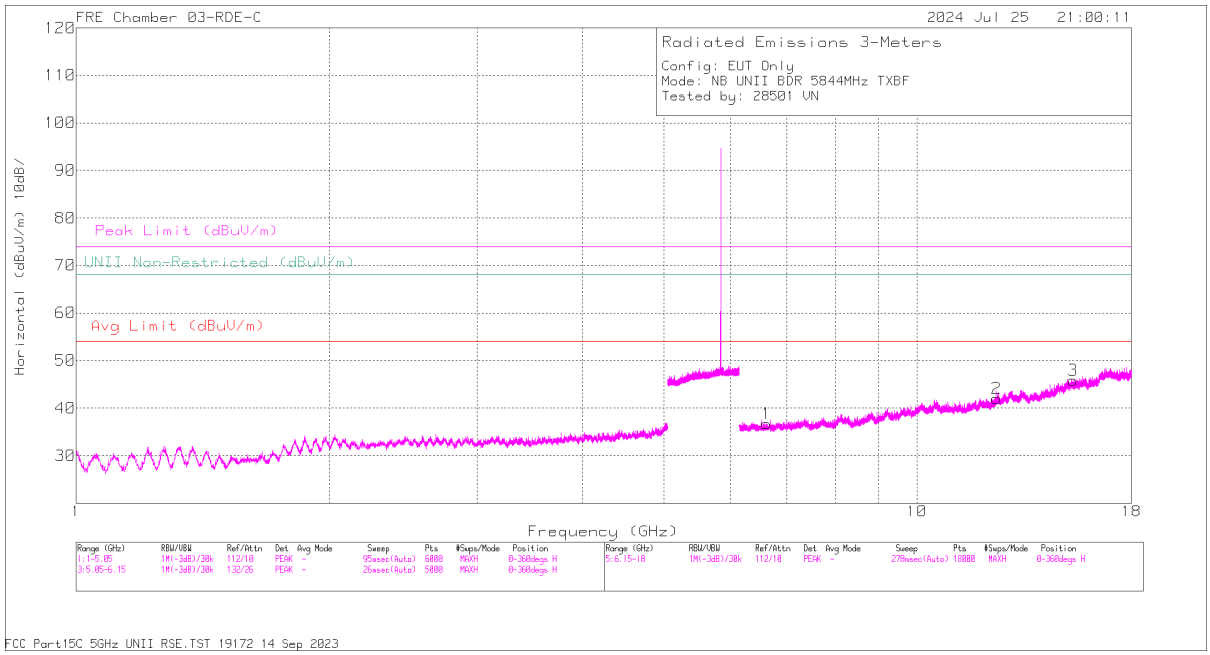
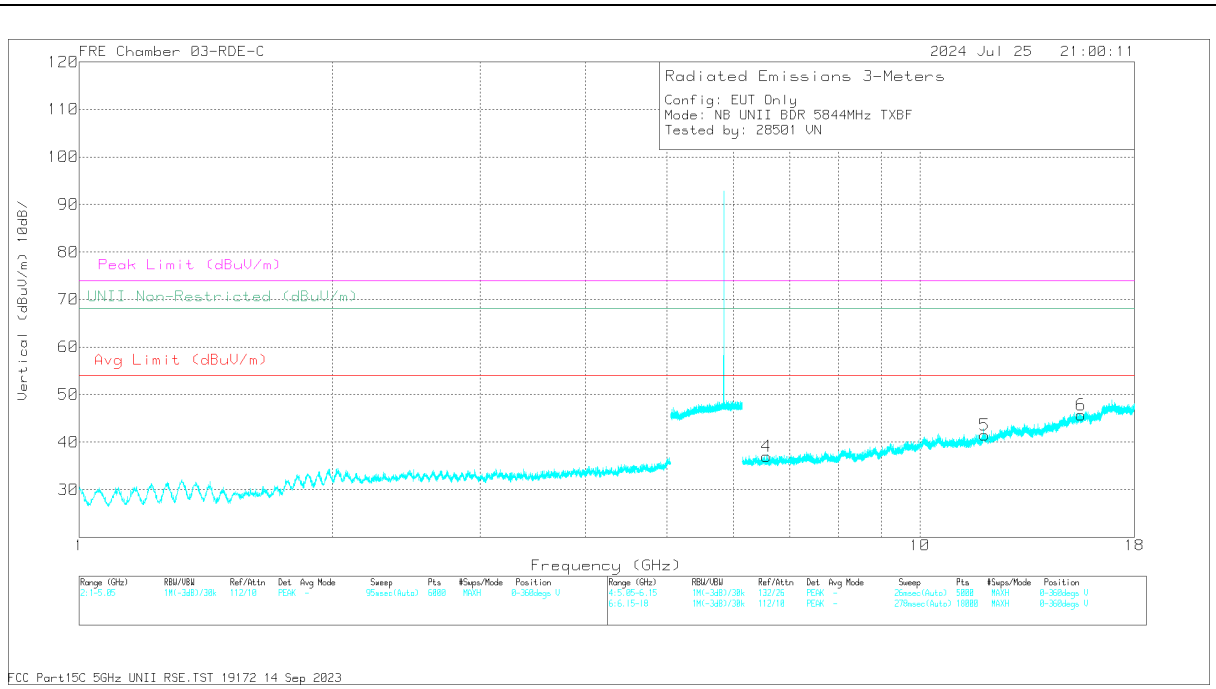
## HIGH CHANNEL, 5844 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230384 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 12.4309 | 56.28 | PK-U | 38.7 | -43.4 | 51.58 | - | - | 74 | -22.42 | - | - | 140 | 104 | H |
| | * 12.4404 | 45.1 | ADR | 38.7 | -43.34 | 40.46 | 54 | -13.54 | - | - | - | - | 140 | 104 | H |
| 5 | * 11.9521 | 55.42 | PK-U | 38.3 | -42.68 | 51.04 | - | - | 74 | -22.96 | - | - | 360 | 200 | V |
| | * 11.9435 | 44.19 | ADR | 38.3 | -42.76 | 39.73 | 54 | -14.27 | - | - | - | - | 360 | 200 | V |
| 6 | * 15.5661 | 58.15 | PK-U | 40.2 | -43.6 | 54.75 | - | - | 74 | -19.25 | - | - | 360 | 101 | V |
| | * 15.5603 | 46.61 | ADR | 40.2 | -43.43 | 43.38 | 54 | -10.62 | - | - | - | - | 360 | 101 | V |
| 4 | 6.569315 | 55.8 | PK-U | 35.5 | -45.1 | 46.2 | - | - | - | - | 68.2 | -22 | 356 | 200 | V |
| 1 | 6.634143 | 55.74 | PK-U | 35.6 | -45.29 | 46.05 | - | - | - | - | 68.2 | -22.15 | 360 | 200 | H |
| 3 | 15.341579 | 58.74 | PK-U | 40.1 | -43.76 | 55.08 | - | - | - | - | 68.2 | -13.12 | 360 | 200 | H |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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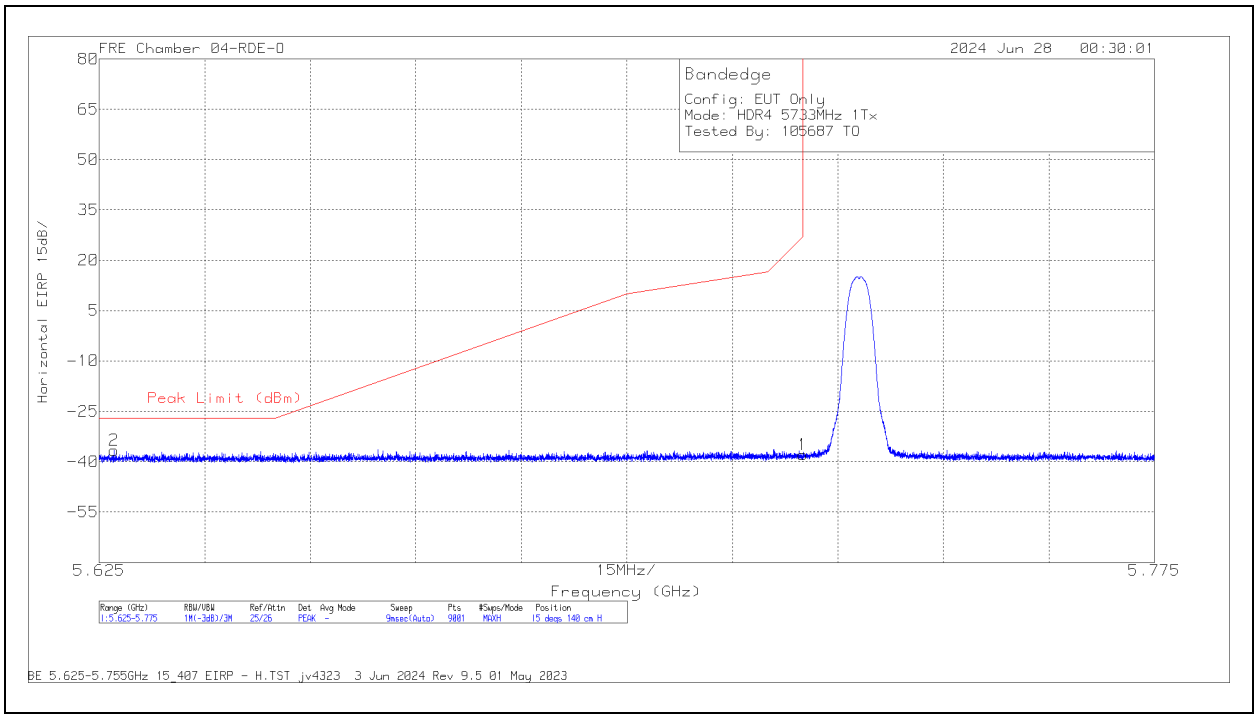
## 10.1.17. HDR 4 HIGH POWER, UNII-3 BAND, BANDEDGE

## ANT 6, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP(dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.627083 | -49.28 | Pk | 35.1 | 11.8 | -34.21 | -36.59 | -27 | -9.59 | 15 | 140 | H |
| 1 | 5.725 | -50.83 | Pk | 35.2 | 11.8 | -34.1 | -37.93 | 27 | -64.93 | 15 | 140 | H |

Pk - Peak detector



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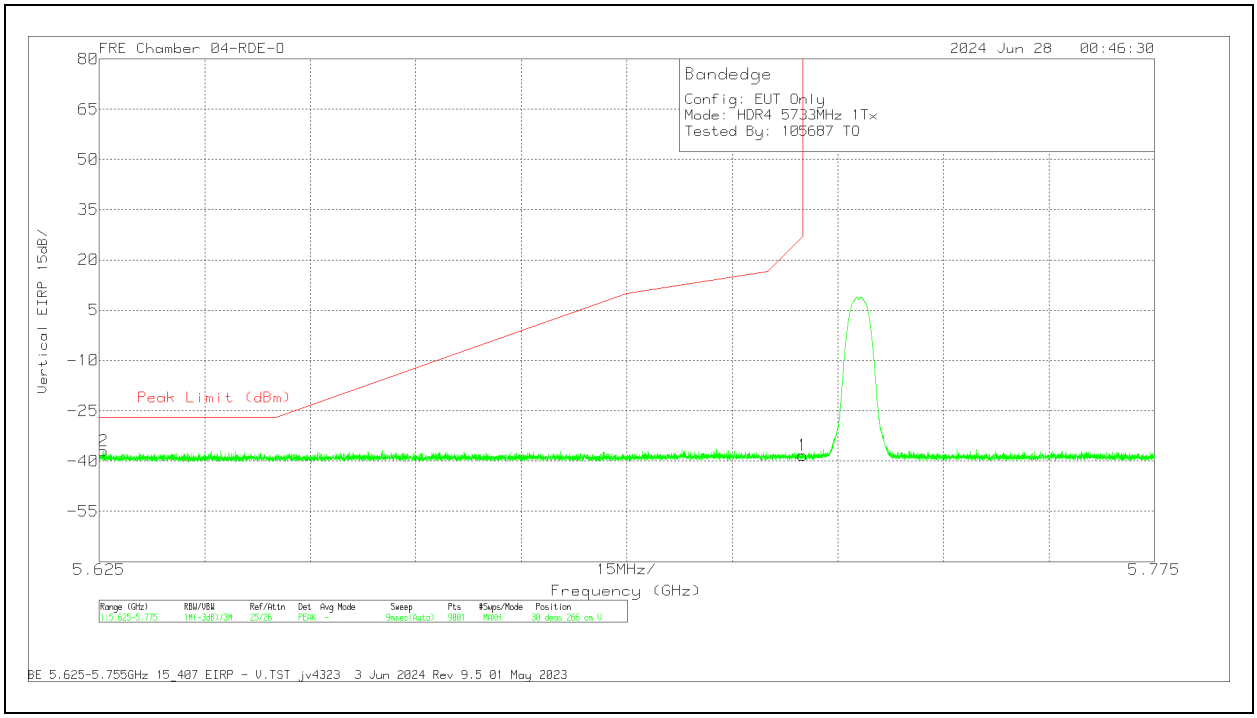
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.625633 | -49.74 | Pk | 35.1 | 11.8 | -34.16 | -37 | -27 | -10 | 30 | 266 | V |
| 1 | 5.725 | -51.09 | Pk | 35.2 | 11.8 | -34.1 | -38.19 | 27 | -65.19 | 30 | 266 | V |

Pk - Peak detector



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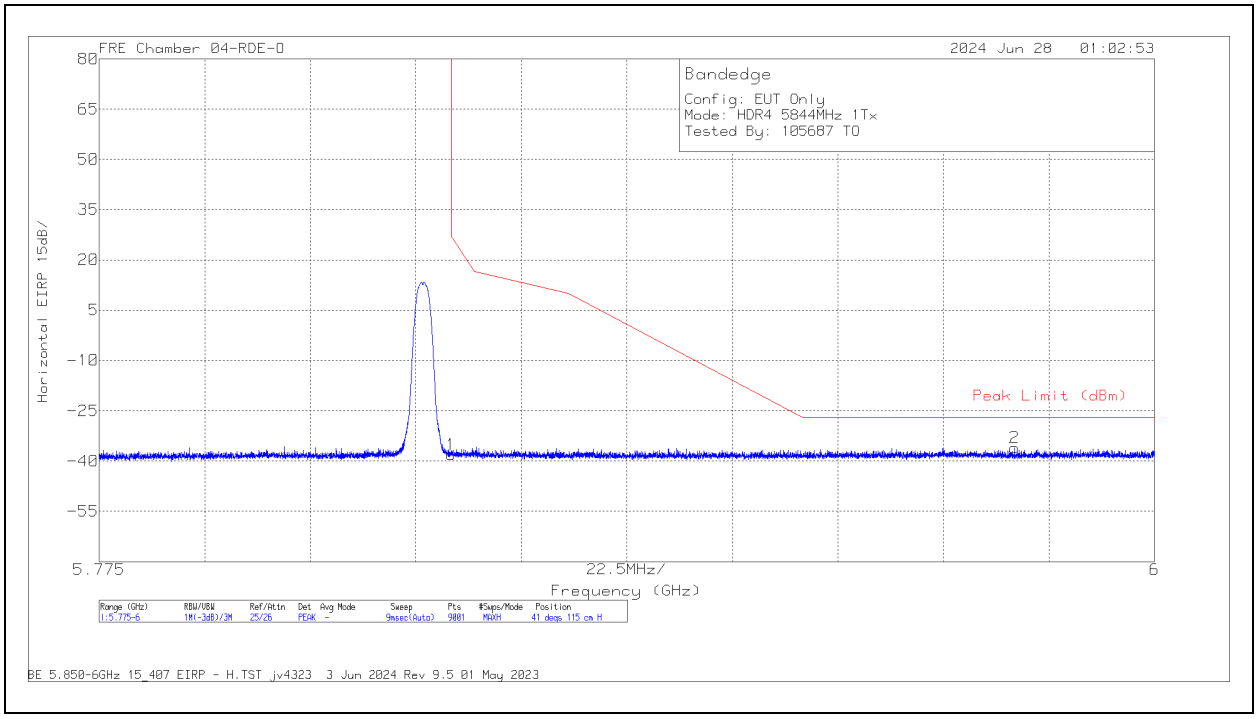
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.45 | Pk | 35.4 | 11.8 | -33.8 | -38.05 | 27 | -65.05 | 41 | 115 | H |
| 2 | 5.970175 | -49.79 | Pk | 35.6 | 11.8 | -33.7 | -36.09 | -27 | -9.09 | 41 | 115 | H |

Pk - Peak detector



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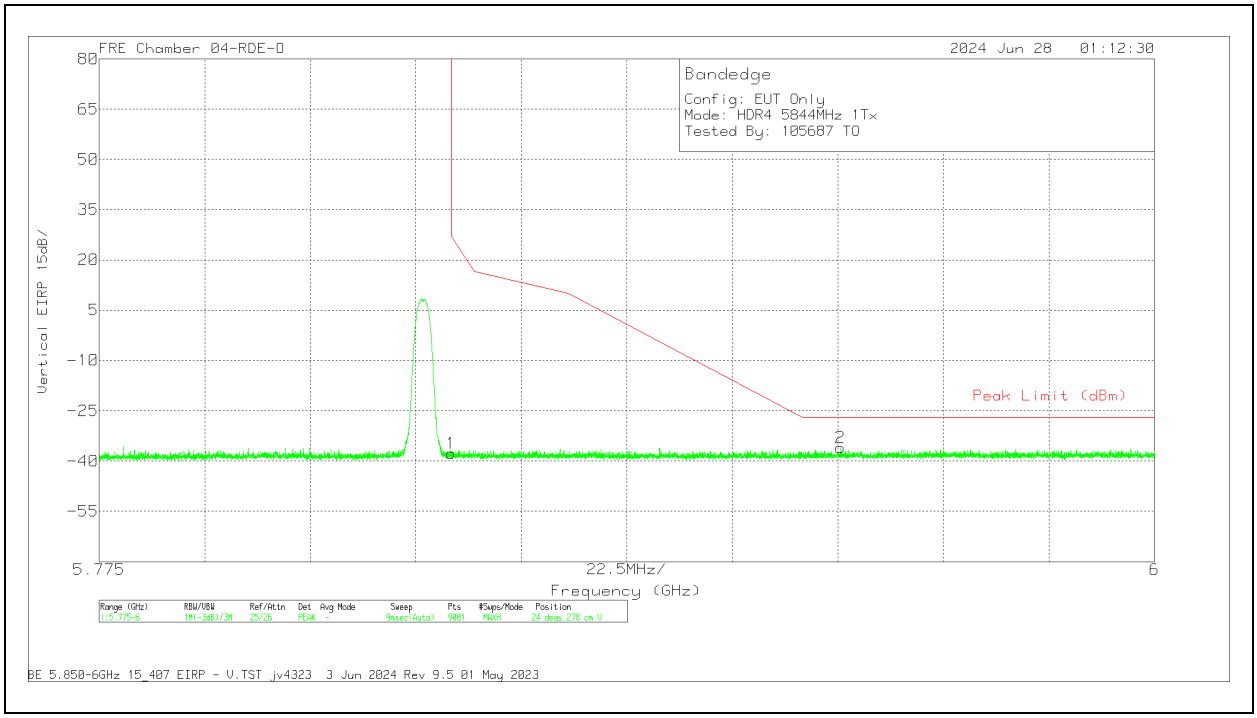
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.07 | Pk | 35.4 | 11.8 | -33.8 | -37.67 | 27 | -64.67 | 24 | 278 | V |
| 2 | 5.9331 | -49.77 | Pk | 35.5 | 11.8 | -33.5 | -35.97 | -27 | -8.97 | 24 | 278 | V |

Pk - Peak detector



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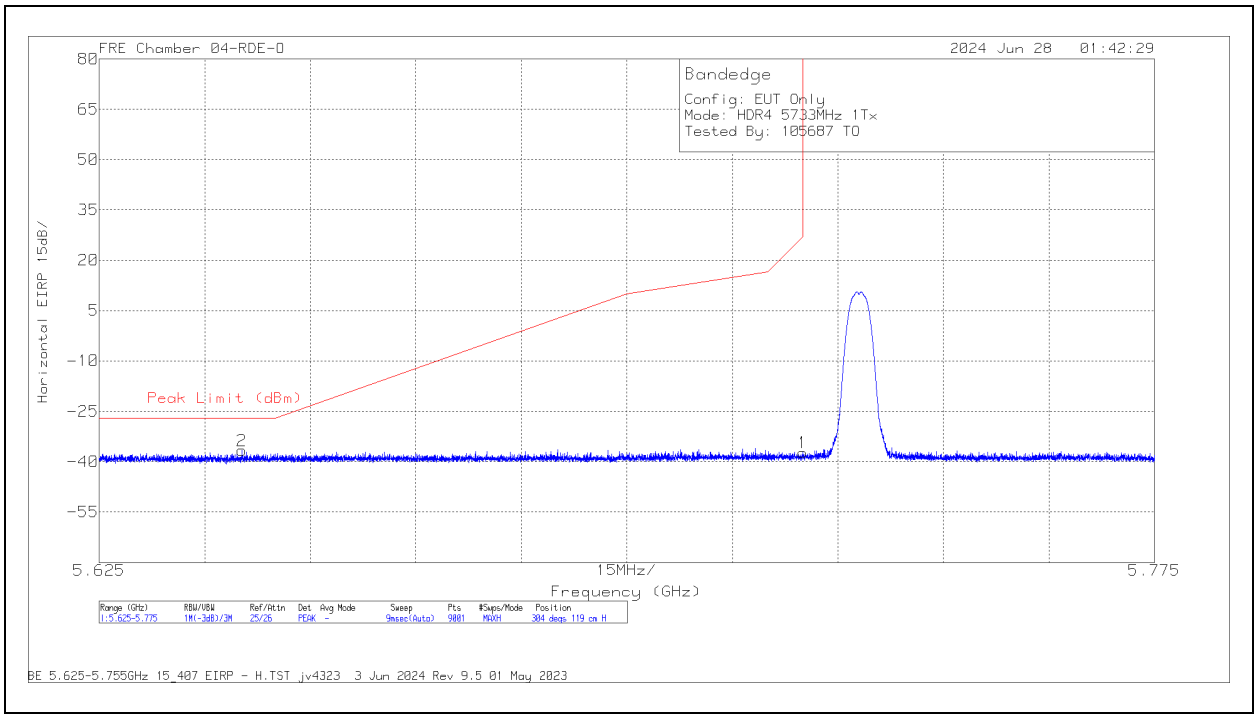
## ANT 5, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.645317 | -49.31 | Pk | 35.1 | 11.8 | -34.27 | -36.68 | -27 | -9.68 | 304 | 119 | H |
| 1 | 5.725 | -50.15 | Pk | 35.2 | 11.8 | -34.1 | -37.25 | 27 | -64.25 | 304 | 119 | H |

Pk - Peak detector



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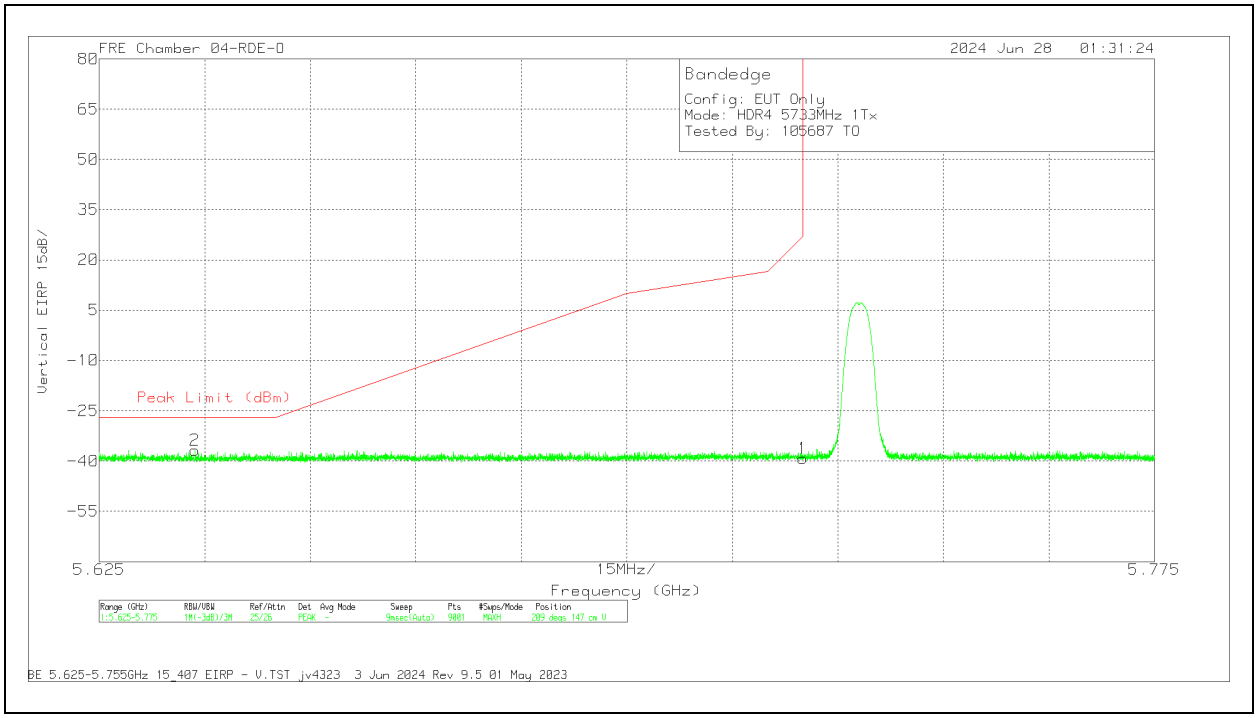
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.638584 | -49.45 | Pk | 35.1 | 11.8 | -34.26 | -36.81 | -27 | -9.81 | 209 | 147 | V |
| 1 | 5.725 | -52.14 | Pk | 35.2 | 11.8 | -34.1 | -39.24 | 27 | -66.24 | 209 | 147 | V |

Pk - Peak detector



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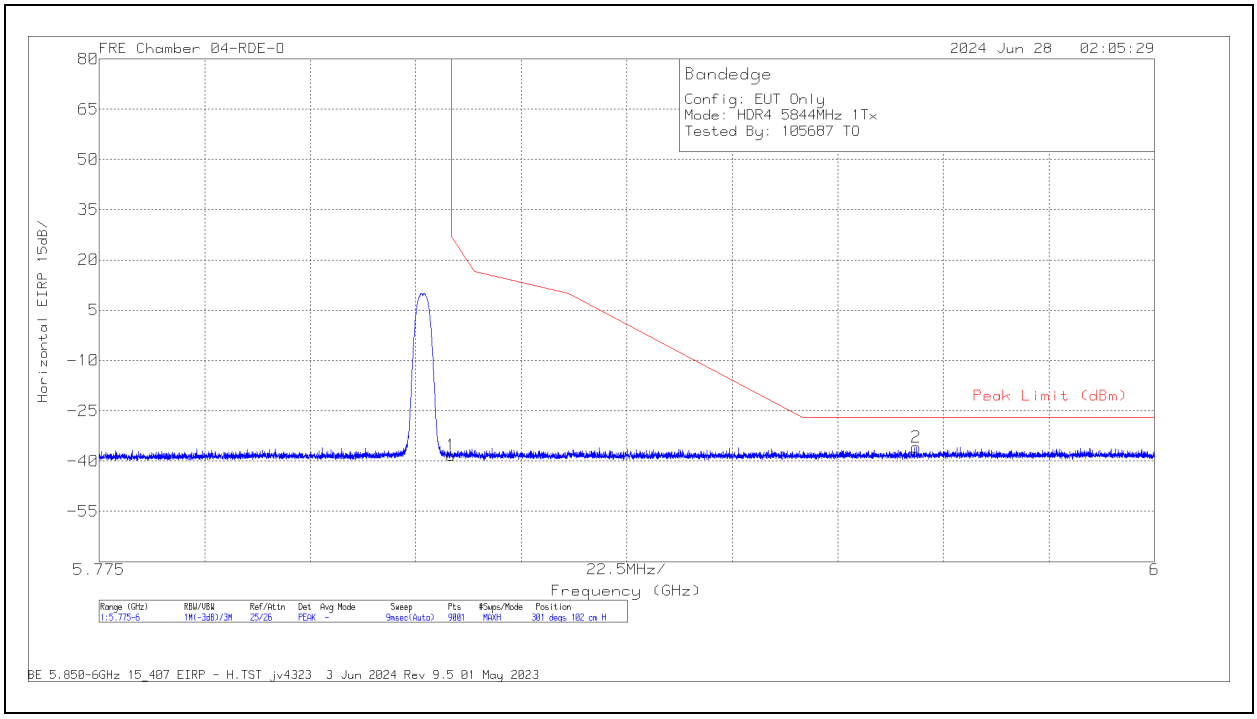
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.65 | Pk | 35.4 | 11.8 | -33.8 | -38.25 | 27 | -65.25 | 301 | 102 | H |
| 2 | 5.949225 | -49.56 | Pk | 35.6 | 11.8 | -33.7 | -35.86 | -27 | -8.86 | 301 | 102 | H |

Pk - Peak detector



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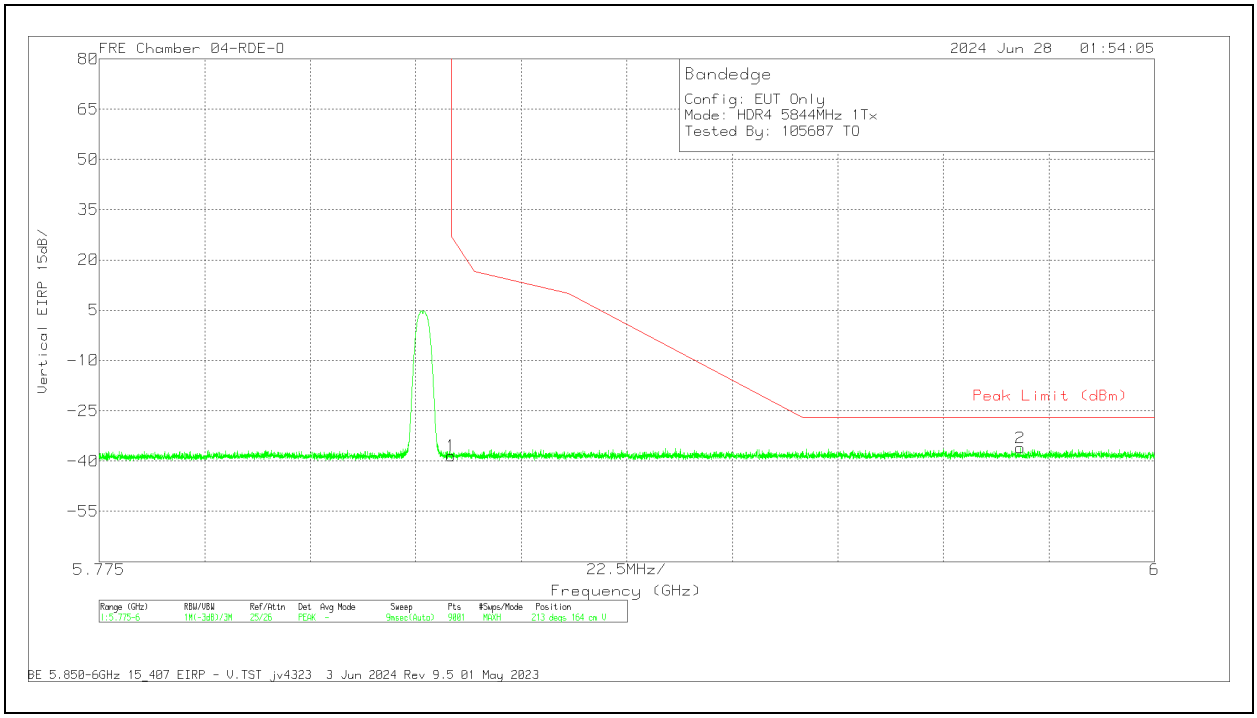
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.88 | Pk | 35.4 | 11.8 | -33.8 | -38.48 | 27 | -65.48 | 213 | 164 | V |
| 2 | 5.971375 | -49.76 | Pk | 35.6 | 11.8 | -33.74 | -36.1 | -27 | -9.1 | 213 | 164 | V |

Pk - Peak detector



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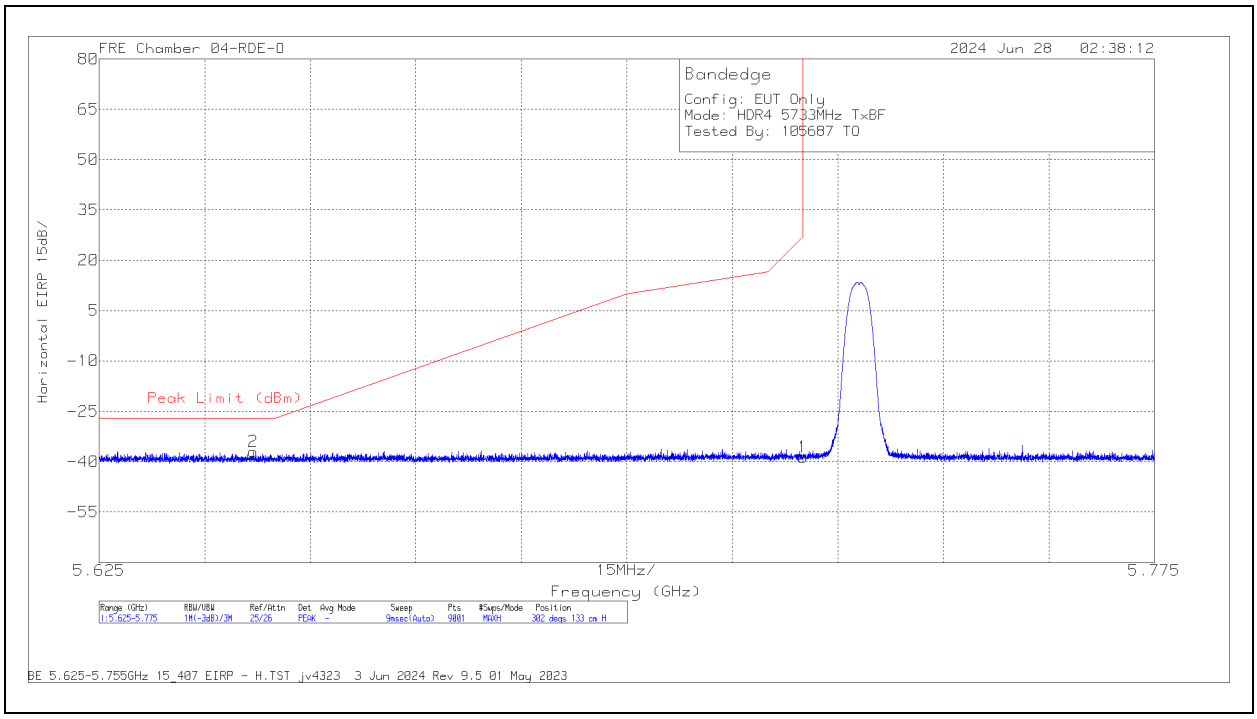
## ANT 6 + ANT 5, MIMO TXBF MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.646884 | -49.78 | Pk | 35.1 | 11.8 | -34.02 | -36.9 | -27 | -9.9 | 302 | 133 | H |
| 1 | 5.725 | -51.48 | Pk | 35.2 | 11.8 | -34.1 | -38.58 | 27 | -65.58 | 302 | 133 | H |

Pk - Peak detector



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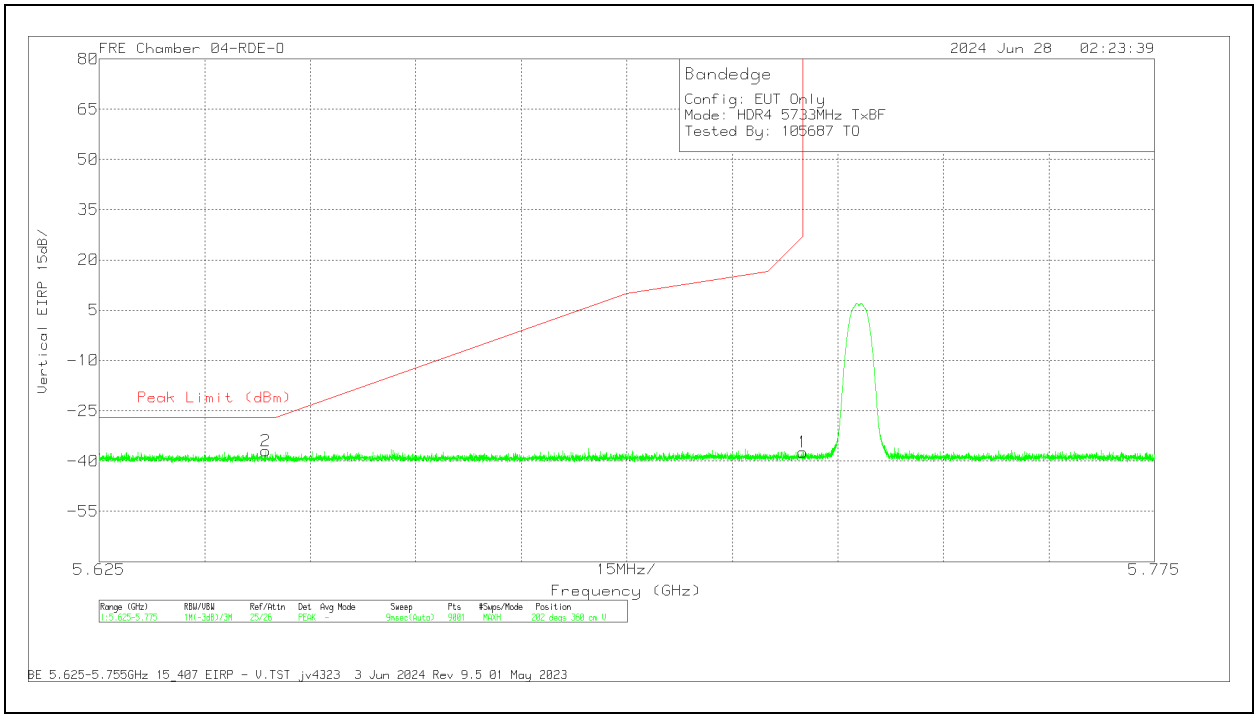
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.648634 | -49.77 | Pk | 35.1 | 11.8 | -34.16 | -37.03 | -27 | -10.03 | 202 | 360 | V |
| 1 | 5.725 | -50.29 | Pk | 35.2 | 11.8 | -34.1 | -37.39 | 27 | -64.39 | 202 | 360 | V |

Pk - Peak detector



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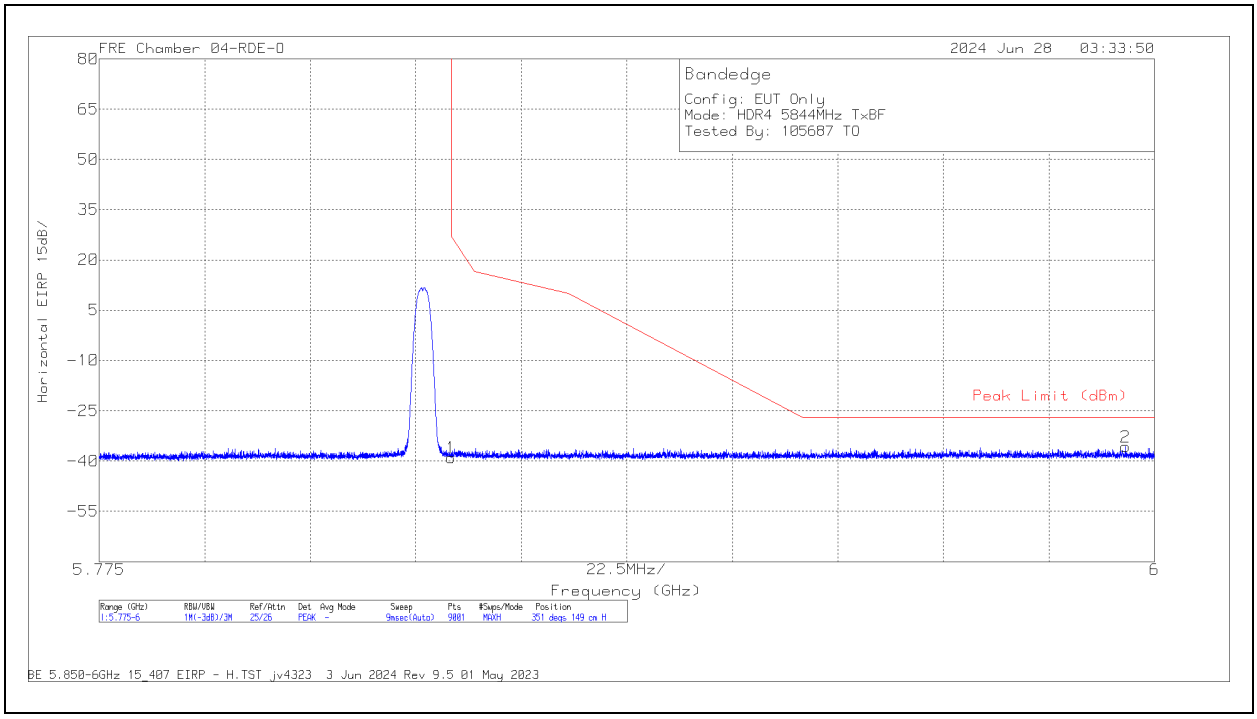
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.34 | Pk | 35.4 | 11.8 | -33.8 | -38.94 | 27 | -65.94 | 351 | 149 | H |
| 2 | 5.993825 | -49.56 | Pk | 35.6 | 11.8 | -33.58 | -35.74 | -27 | -8.74 | 351 | 149 | H |

Pk - Peak detector



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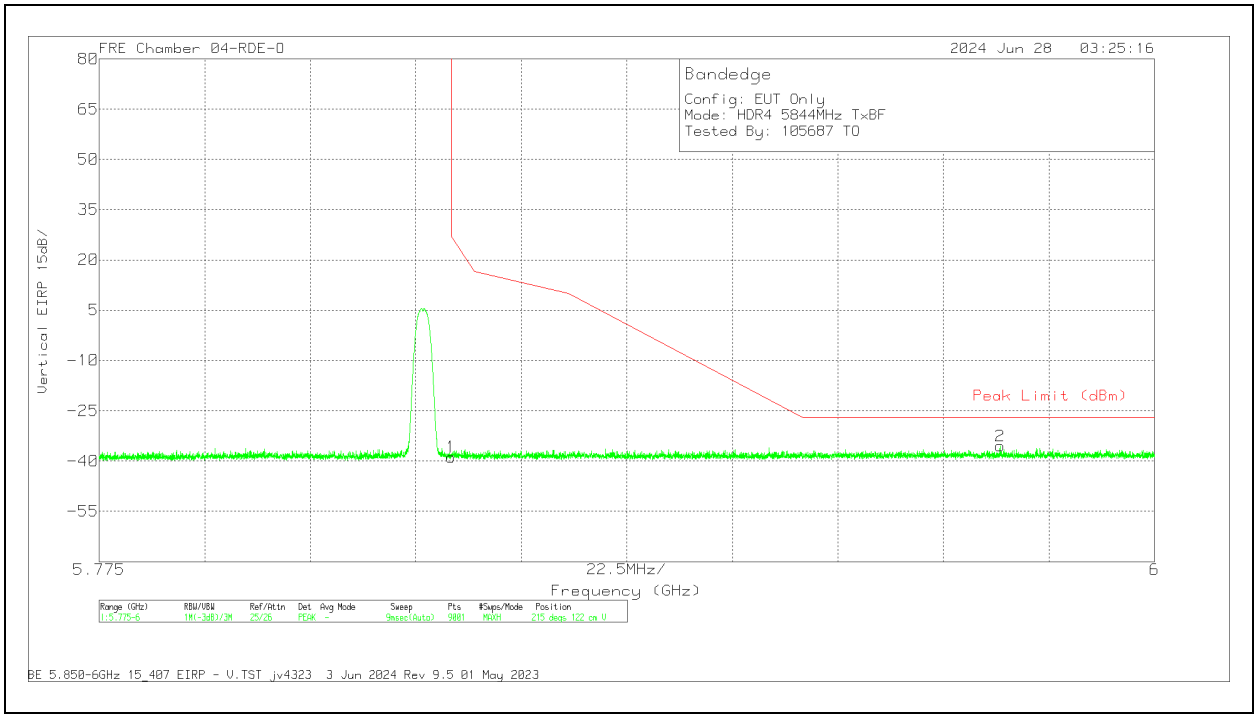
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.2 | Pk | 35.4 | 11.8 | -33.8 | -38.8 | 27 | -65.8 | 215 | 122 | V |
| 2 | 5.967075 | -49.33 | Pk | 35.6 | 11.8 | -33.61 | -35.54 | -27 | -8.54 | 215 | 122 | V |

Pk - Peak detector



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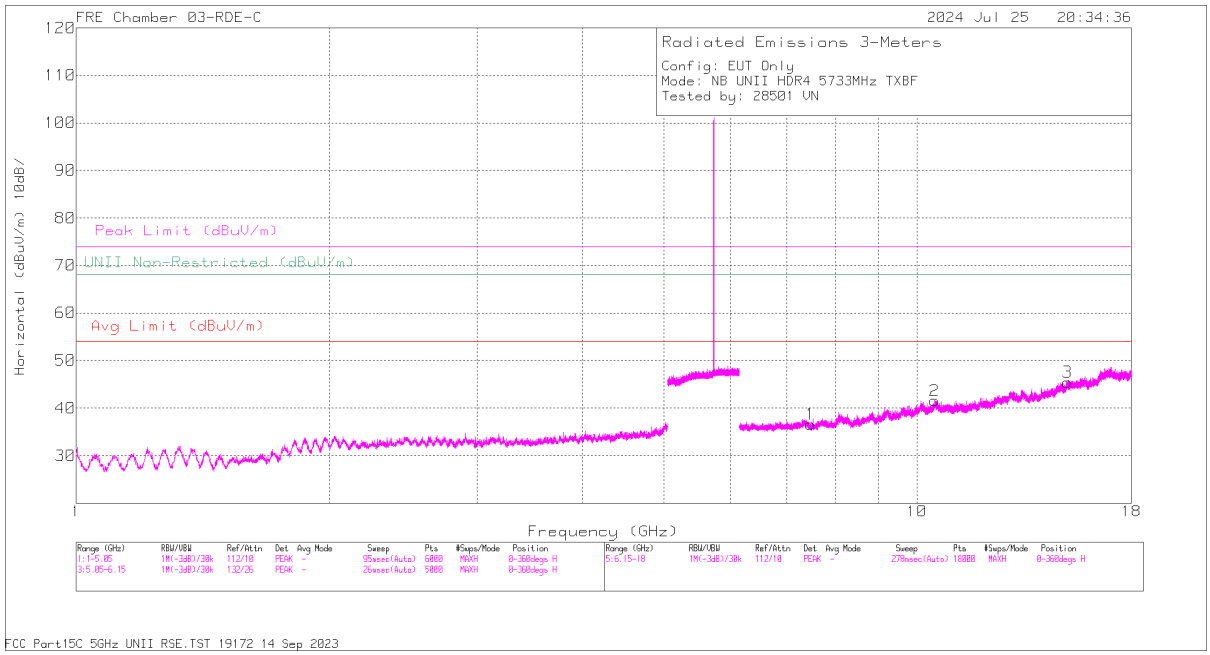
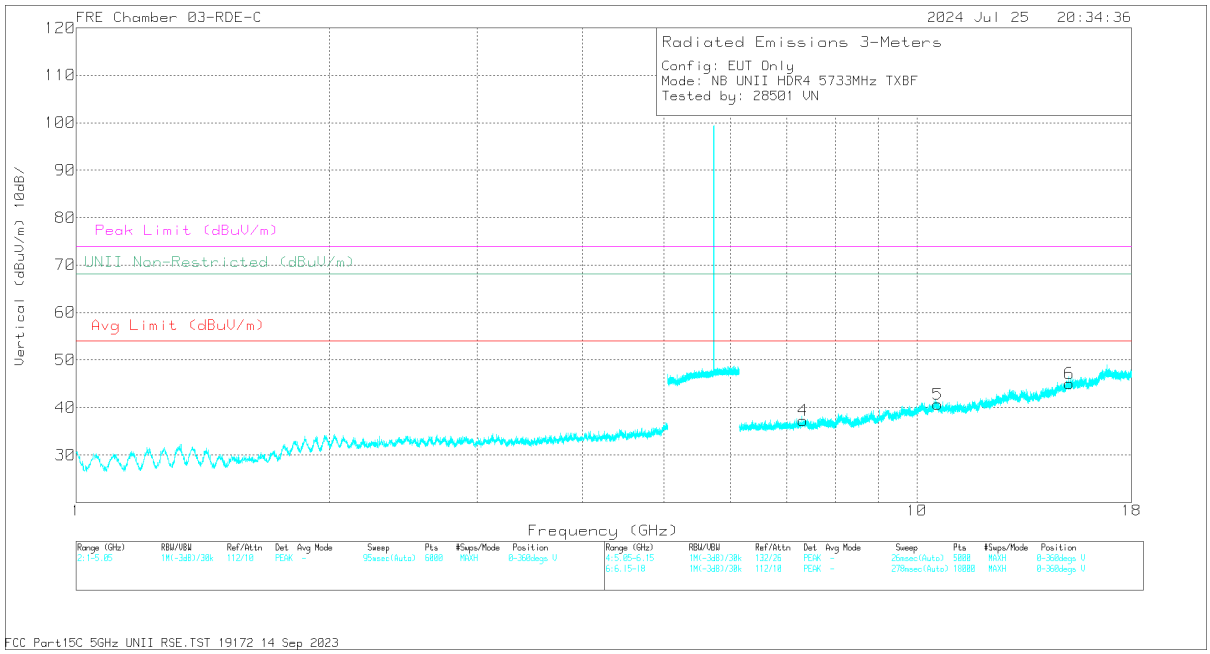
## 10.1.18. HDR 4 HIGH POWER, UNII-3 BAND, HARMONIC AND SPURIOUS

### LOW CHANNEL, 5733 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230384 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.46839 | 56.83 | PK-U | 35.7 | -45.74 | 46.79 | - | - | 74 | -27.21 | - | - | 352 | 111 | H |
| | * 7.46833 | 45.08 | ADR | 35.7 | -45.73 | 35.05 | 54 | -18.95 | - | - | - | - | 352 | 111 | H |
| 4 | * 7.31455 | 57.44 | PK-U | 35.7 | -45.4 | 47.74 | - | - | 74 | -26.26 | - | - | 360 | 101 | V |
| | * 7.31729 | 45.47 | ADR | 35.7 | -45.4 | 35.77 | 54 | -18.23 | - | - | - | - | 360 | 101 | V |
| 2 | 10.505102 | 56.93 | PK-U | 37.7 | -43.5 | 51.13 | - | - | - | - | 68.2 | -17.07 | 360 | 101 | H |
| 5 | 10.576284 | 56.77 | PK-U | 37.8 | -43.5 | 51.07 | - | - | - | - | 68.2 | -17.13 | 360 | 200 | V |
| 3 | 15.105888 | 57.68 | PK-U | 40 | -42.91 | 54.77 | - | - | - | - | 68.2 | -13.43 | 360 | 200 | H |
| 6 | 15.188032 | 57.71 | PK-U | 40.1 | -43.5 | 54.31 | - | - | - | - | 68.2 | -13.89 | 360 | 101 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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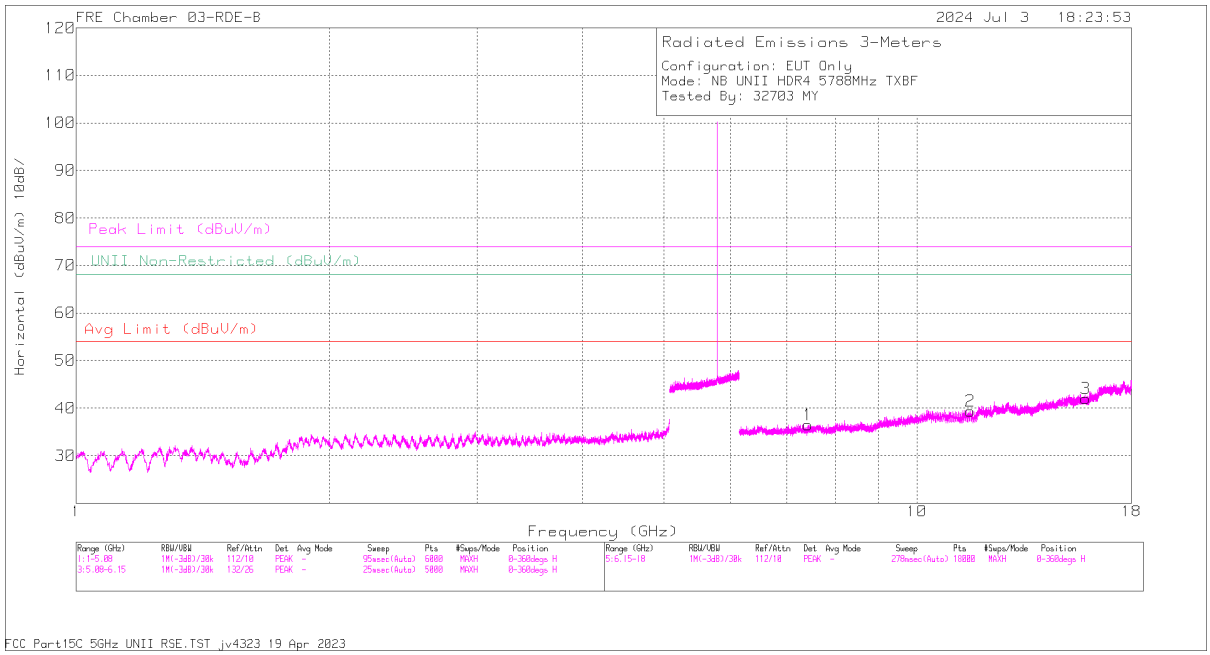
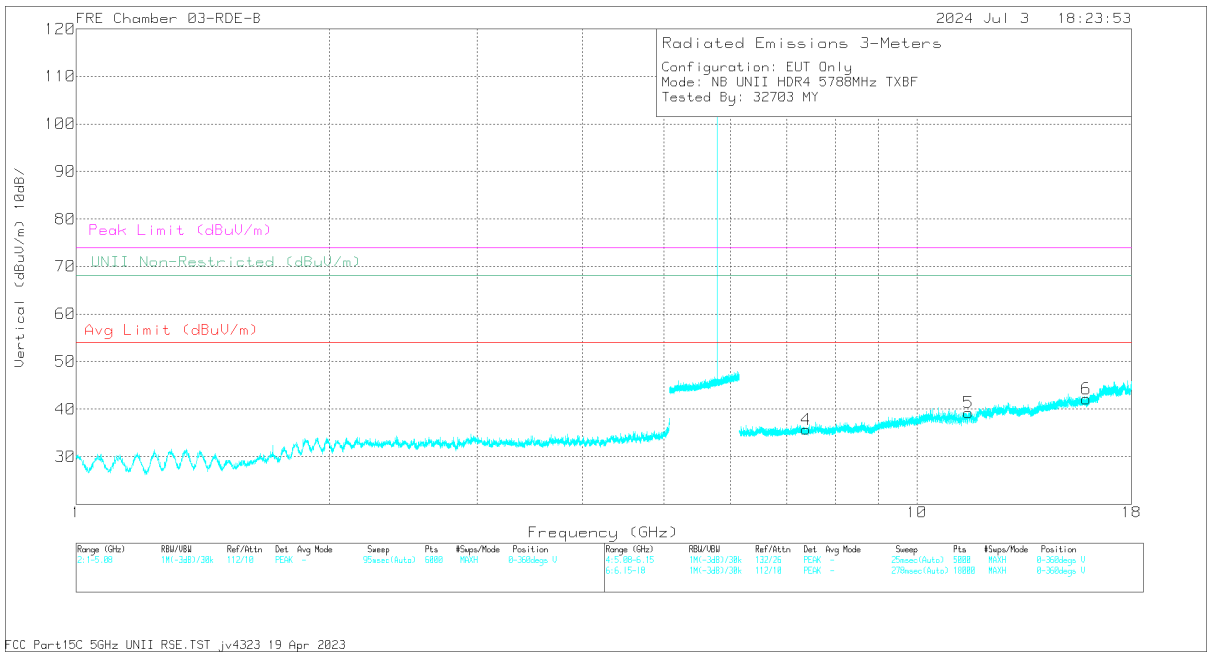
## MID CHANNEL, 5788 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.427505 | 58.84 | PK-U | 35.9 | -47.8 | 46.94 | - | - | 74 | -27.06 | 1 | 101 | H |
| | * 7.427644 | 46.33 | ADR | 35.9 | -47.8 | 34.43 | 54 | -19.57 | - | - | 1 | 101 | H |
| 2 | * 11.570566 | 57.64 | PK-U | 38.3 | -46.5 | 49.44 | - | - | 74 | -24.56 | 1 | 101 | H |
| | * 11.568819 | 45.98 | ADR | 38.3 | -46.5 | 37.78 | 54 | -16.22 | - | - | 1 | 101 | H |
| 3 | * 15.887235 | 58.46 | PK-U | 40.4 | -46.52 | 52.34 | - | - | 74 | -21.66 | 1 | 101 | H |
| | * 15.888713 | 46.87 | ADR | 40.4 | -46.6 | 40.67 | 54 | -13.33 | - | - | 1 | 101 | H |
| 4 | * 7.389479 | 58.54 | PK-U | 35.8 | -48.2 | 46.14 | - | - | 74 | -27.86 | 1 | 101 | V |
| | * 7.389573 | 46.64 | ADR | 35.8 | -48.2 | 34.24 | 54 | -19.76 | - | - | 1 | 101 | V |
| 5 | * 11.511647 | 57.81 | PK-U | 38.2 | -46.8 | 49.21 | - | - | 74 | -24.79 | 1 | 200 | V |
| | * 11.511439 | 46.28 | ADR | 38.2 | -46.8 | 37.68 | 54 | -16.32 | - | - | 1 | 200 | V |
| 6 | * 15.904283 | 58.52 | PK-U | 40.4 | -46.63 | 52.29 | - | - | 74 | -21.71 | 1 | 101 | V |
| | * 15.903454 | 46.61 | ADR | 40.4 | -46.6 | 40.41 | 54 | -13.59 | - | - | 1 | 101 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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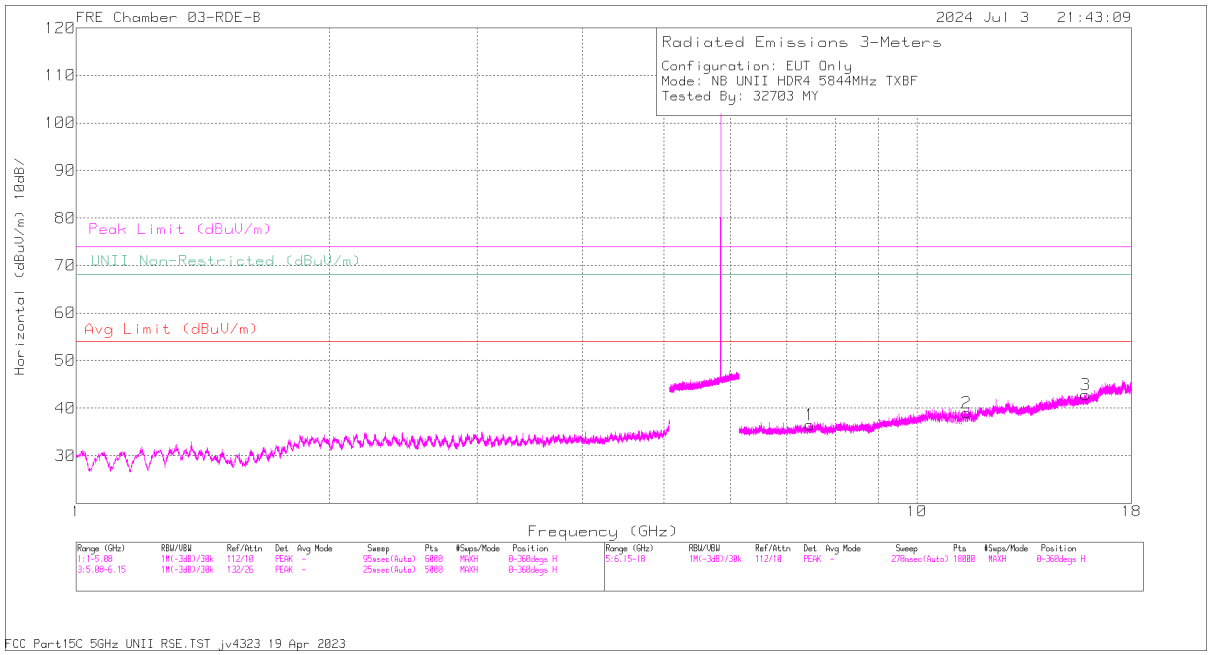
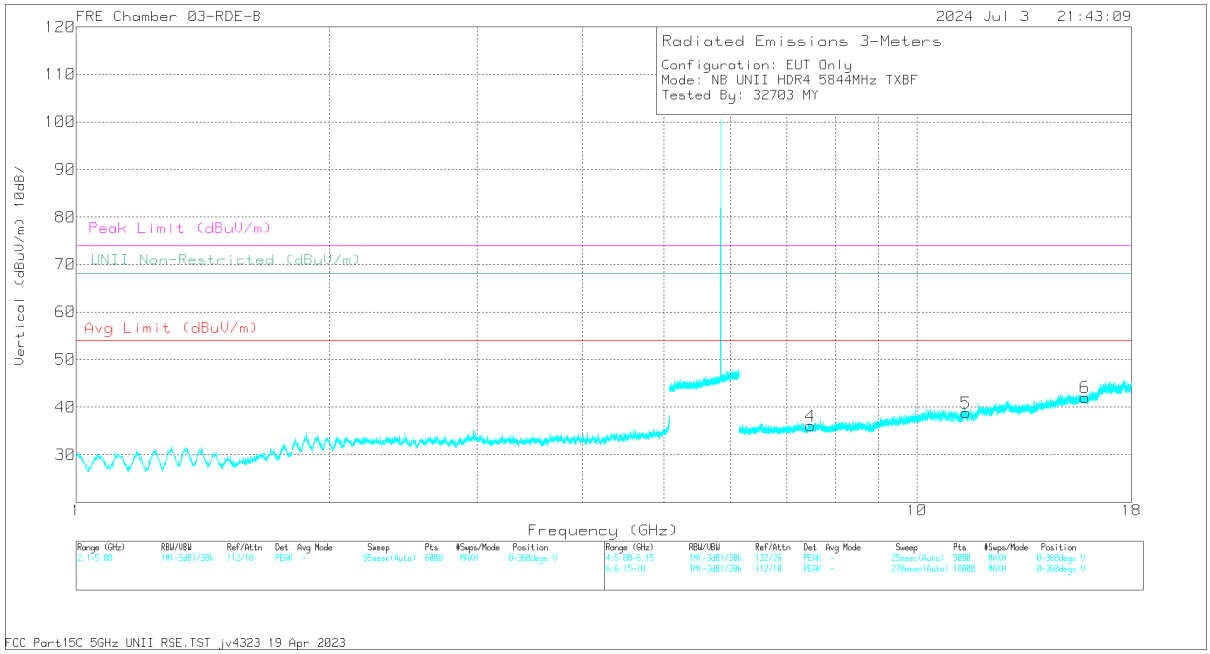
## HIGH CHANNEL, 5844 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.457897 | 58.24 | PK-U | 35.9 | -47.81 | 46.33 | - | - | 74 | -27.67 | 1 | 200 | H |
| | * 7.459656 | 46.2 | ADR | 35.9 | -47.9 | 34.2 | 54 | -19.8 | - | - | 1 | 200 | H |
| 2 | * 11.467274 | 57.19 | PK-U | 38.2 | -46.9 | 48.49 | - | - | 74 | -25.51 | 1 | 101 | H |
| | * 11.468964 | 45.74 | ADR | 38.2 | -46.9 | 37.04 | 54 | -16.96 | - | - | 1 | 101 | H |
| 3 | * 15.877291 | 58.13 | PK-U | 40.3 | -46.53 | 51.9 | - | - | 74 | -22.1 | 1 | 101 | H |
| | * 15.877308 | 46.88 | ADR | 40.3 | -46.53 | 40.65 | 54 | -13.35 | - | - | 1 | 101 | H |
| 4 | * 7.475137 | 58.6 | PK-U | 35.9 | -48.01 | 46.49 | - | - | 74 | -27.51 | 1 | 200 | V |
| | * 7.474602 | 46.59 | ADR | 35.9 | -48 | 34.49 | 54 | -19.51 | - | - | 1 | 200 | V |
| 5 | * 11.449612 | 57.66 | PK-U | 38.1 | -46.9 | 48.86 | - | - | 74 | -25.14 | 1 | 200 | V |
| | * 11.446341 | 46.1 | ADR | 38.1 | -46.8 | 37.4 | 54 | -16.6 | - | - | 1 | 200 | V |
| 6 | * 15.849631 | 58.8 | PK-U | 40.3 | -46.6 | 52.5 | - | - | 74 | -21.5 | 1 | 101 | V |
| | * 15.848383 | 46.87 | ADR | 40.3 | -46.6 | 40.57 | 54 | -13.43 | - | - | 1 | 101 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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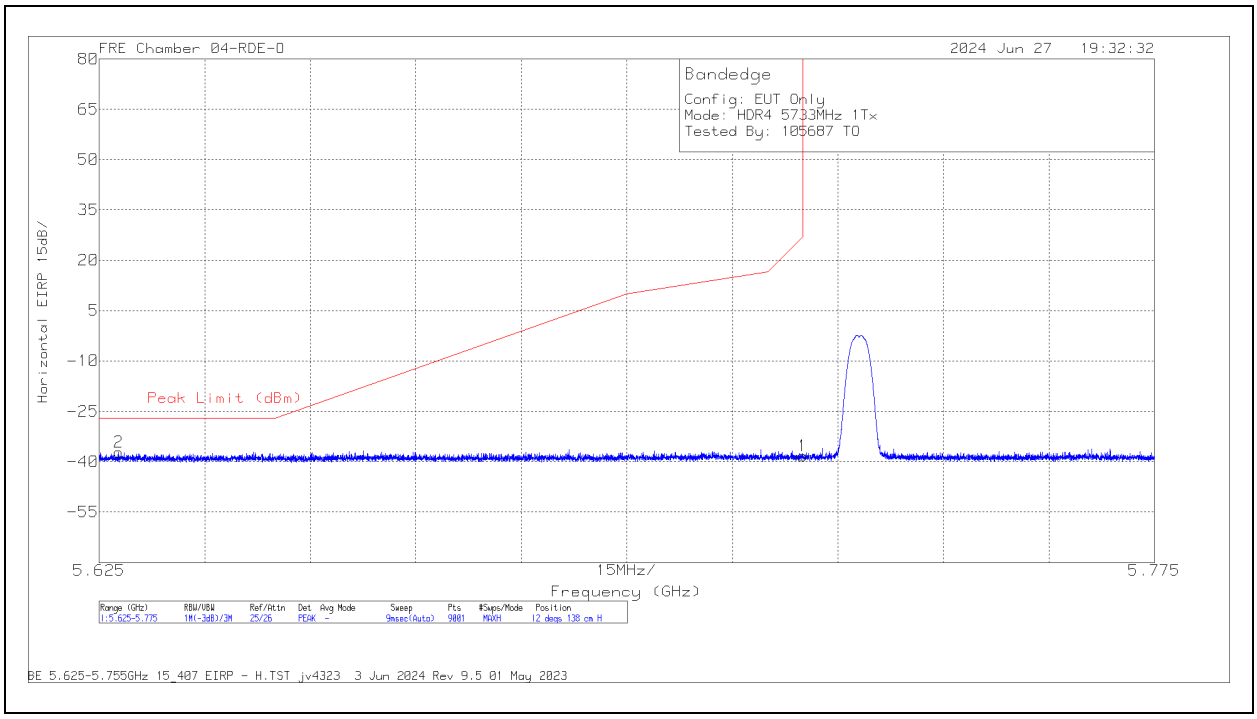
## 10.1.19. HDR 4 LOW POWER, UNII-3 BAND, BANDEDGE

## ANT 6, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.627783 | -49.76 | Pk | 35.1 | 11.8 | -34.28 | -37.14 | -27 | -10.14 | 12 | 138 | H |
| 1 | 5.725 | -51.1 | Pk | 35.2 | 11.8 | -34.1 | -38.2 | 27 | -65.2 | 12 | 138 | H |

Pk - Peak detector



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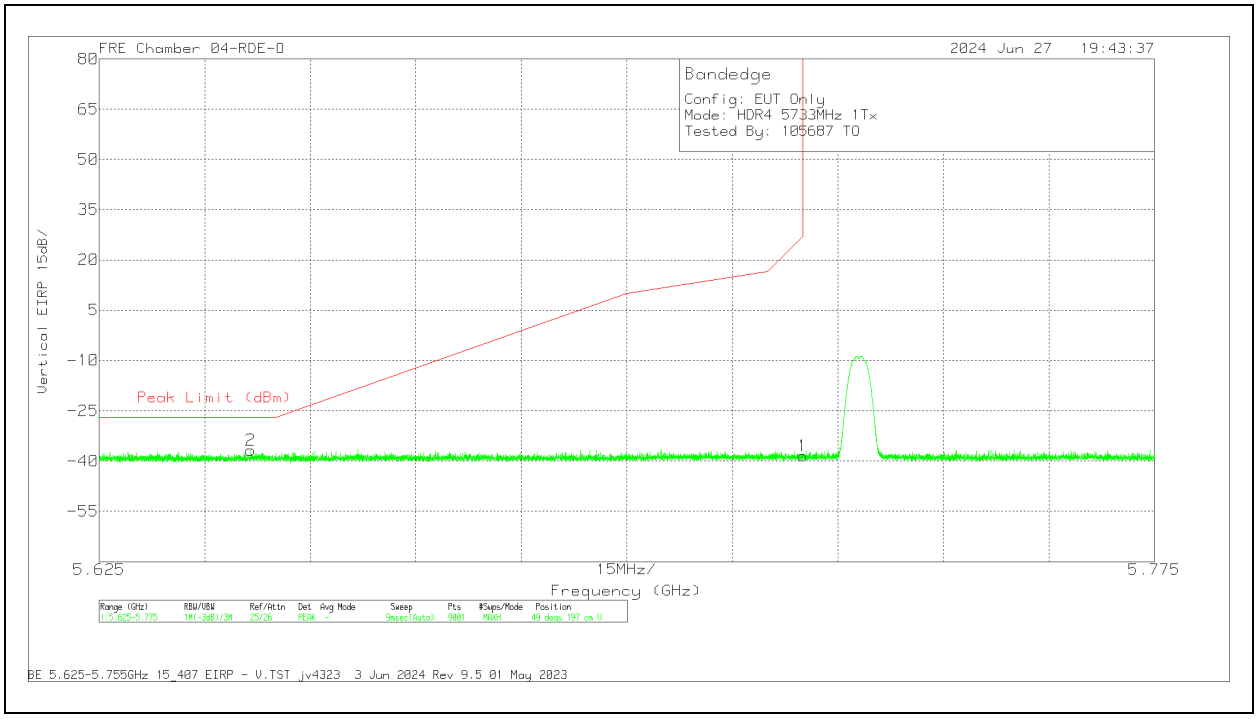
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.64655 | -49.57 | Pk | 35.1 | 11.8 | -34.09 | -36.76 | -27 | -9.76 | 49 | 197 | V |
| 1 | 5.725 | -51.34 | Pk | 35.2 | 11.8 | -34.1 | -38.44 | 27 | -65.44 | 49 | 197 | V |

Pk - Peak detector



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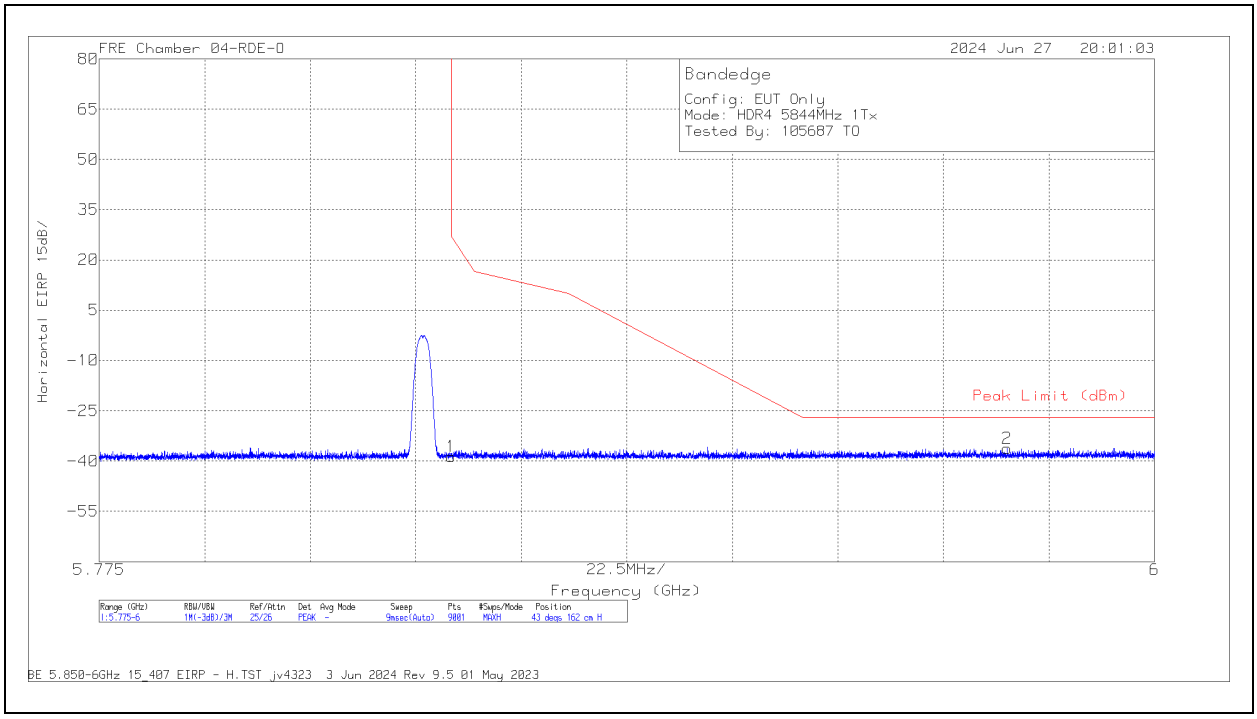
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.06 | Pk | 35.4 | 11.8 | -33.8 | -38.66 | 27 | -65.66 | 43 | 162 | H |
| 2 | 5.9686 | -49.85 | Pk | 35.6 | 11.8 | -33.7 | -36.15 | -27 | -9.15 | 43 | 162 | H |

Pk - Peak detector



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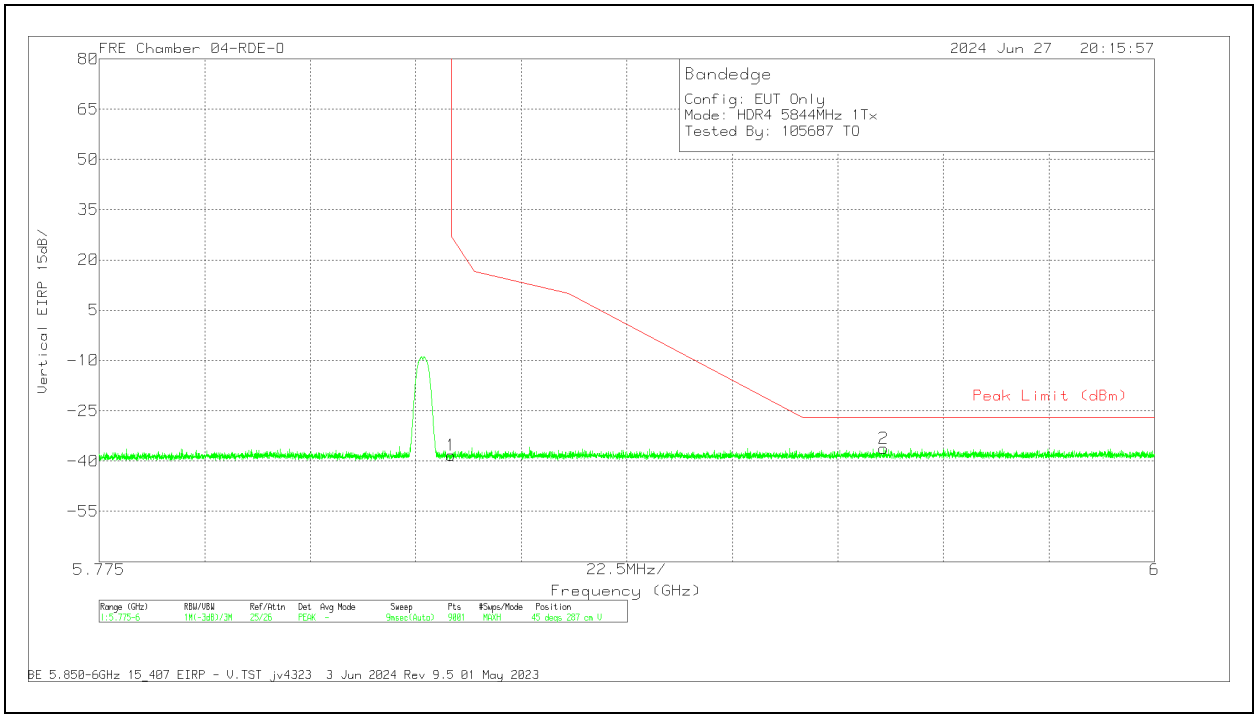
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.73 | Pk | 35.4 | 11.8 | -33.8 | -38.33 | 27 | -65.33 | 45 | 287 | V |
| 2 | 5.9423 | -49.88 | Pk | 35.5 | 11.8 | -33.57 | -36.15 | -27 | -9.15 | 45 | 287 | V |

Pk - Peak detector



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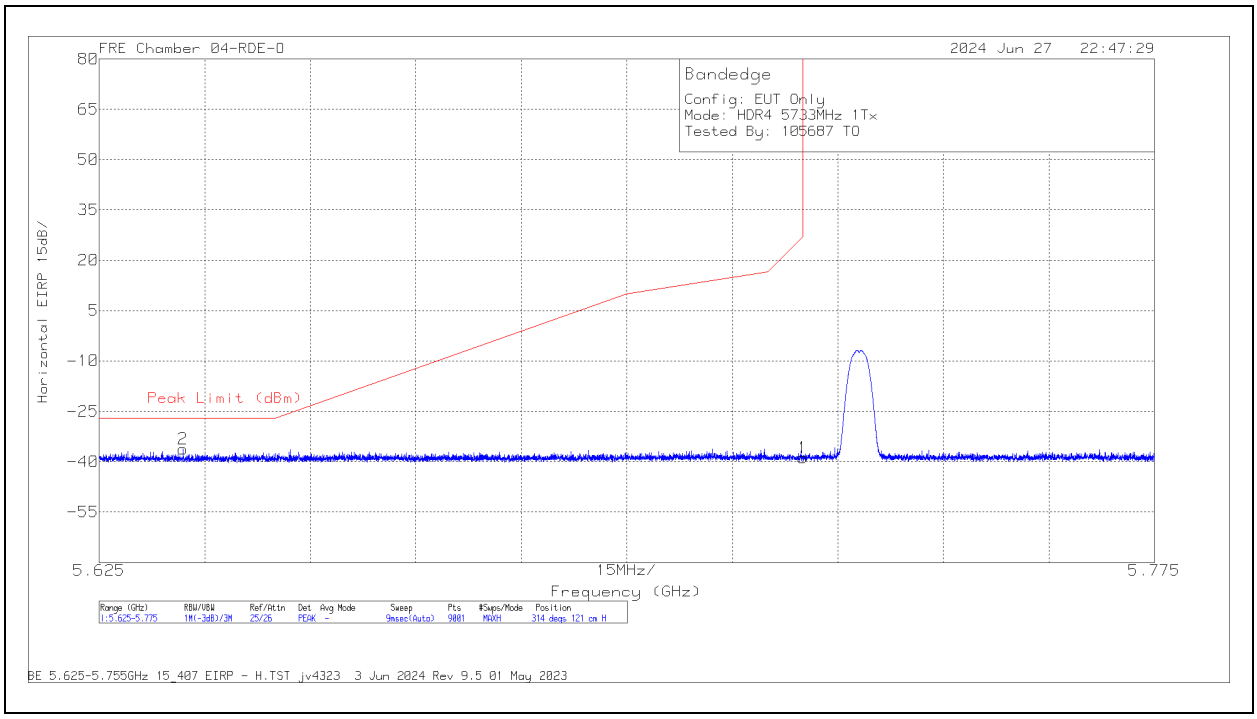
## ANT 5, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.636934 | -48.96 | Pk | 35.1 | 11.8 | -34.2 | -36.26 | -27 | -9.26 | 314 | 121 | H |
| 1 | 5.725 | -51.67 | Pk | 35.2 | 11.8 | -34.1 | -38.77 | 27 | -65.77 | 314 | 121 | H |

Pk - Peak detector



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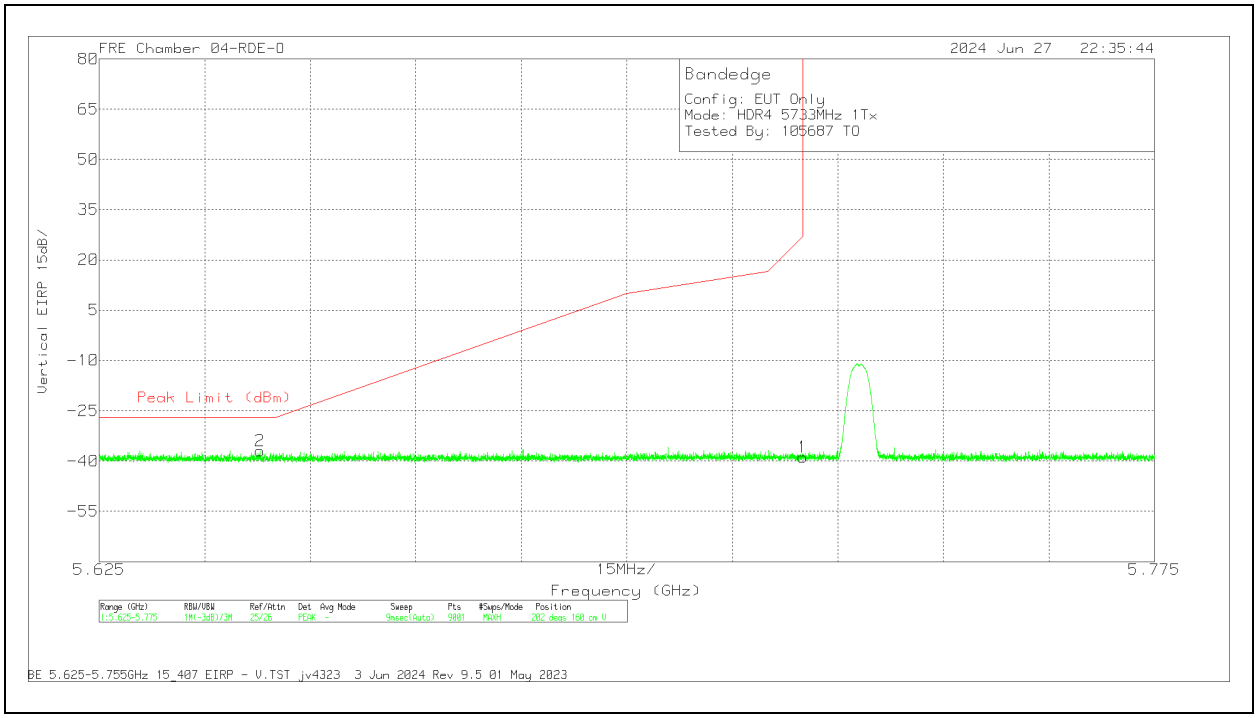
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.647834 | -49.83 | Pk | 35.1 | 11.8 | -34.08 | -37.01 | -27 | -10.01 | 202 | 160 | V |
| 1 | 5.725 | -51.72 | Pk | 35.2 | 11.8 | -34.1 | -38.82 | 27 | -65.82 | 202 | 160 | V |

Pk - Peak detector



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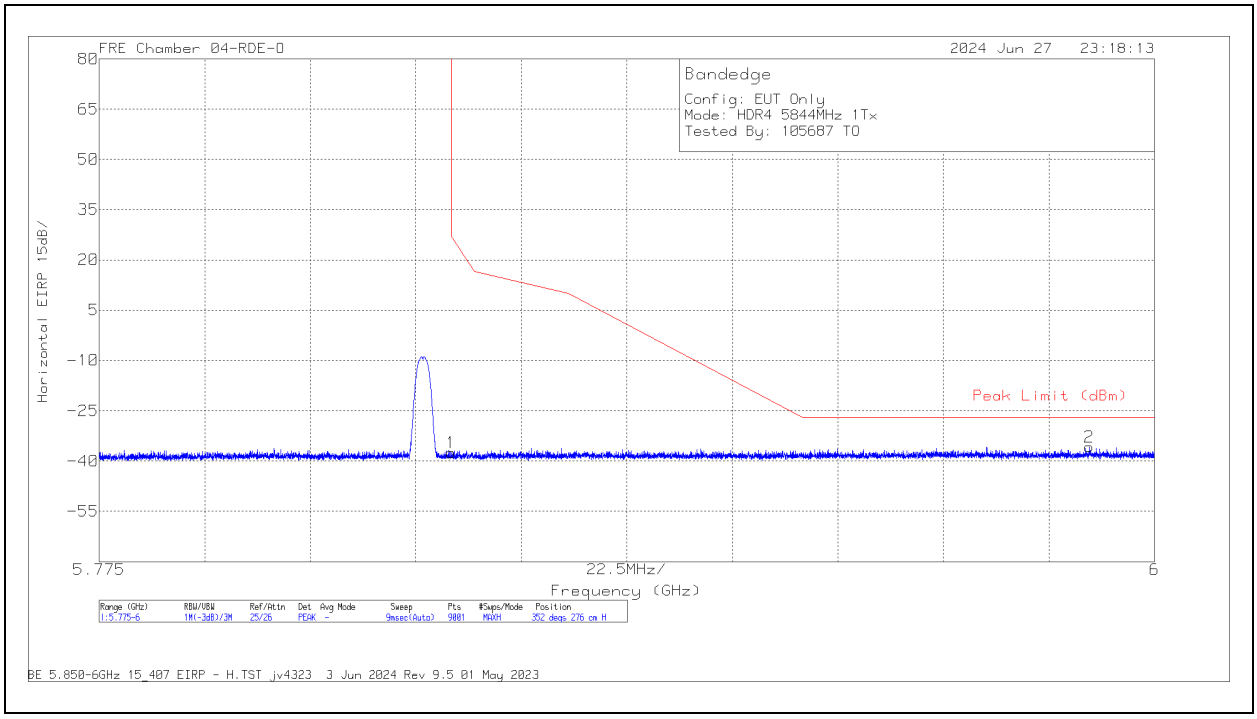
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -50.86 | Pk | 35.4 | 11.8 | -33.8 | -37.46 | 27 | -64.46 | 352 | 276 | H |
| 2 | 5.9861 | -49.55 | Pk | 35.6 | 11.8 | -33.6 | -35.75 | -27 | -8.75 | 352 | 276 | H |

Pk - Peak detector



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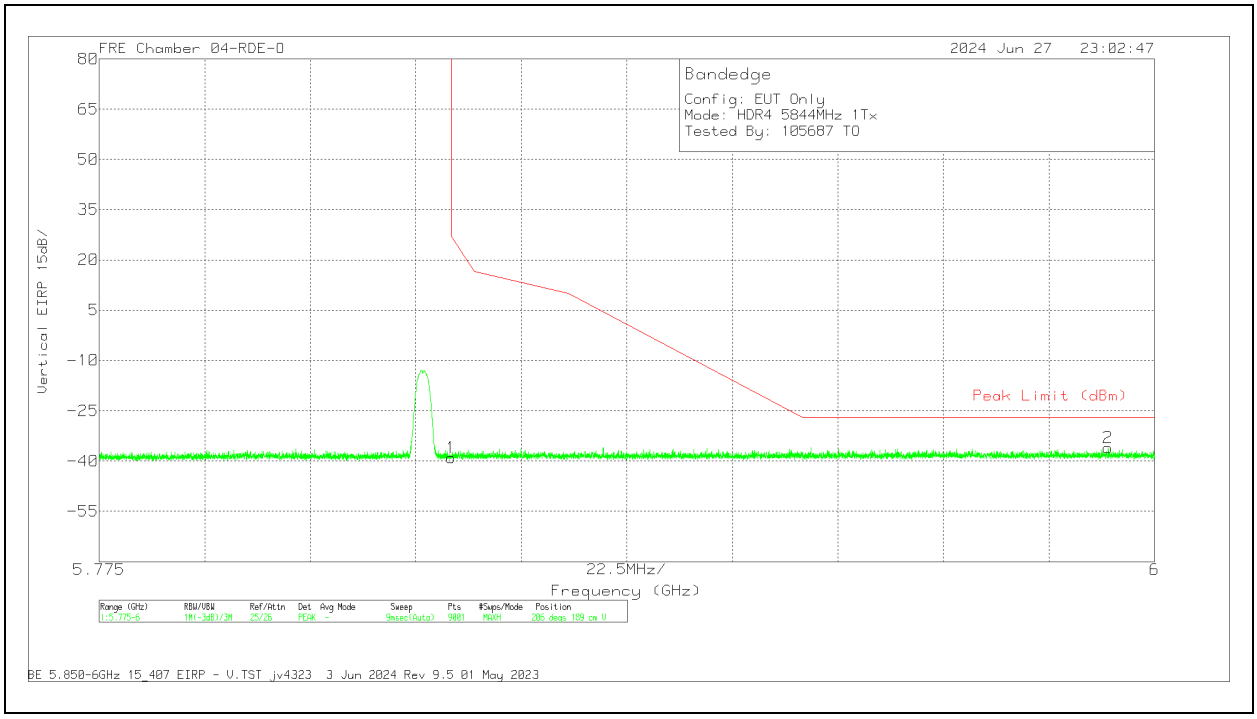
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.42 | Pk | 35.4 | 11.8 | -33.8 | -39.02 | 27 | -66.02 | 206 | 189 | V |
| 2 | 5.990125 | -49.94 | Pk | 35.6 | 11.8 | -33.5 | -36.04 | -27 | -9.04 | 206 | 189 | V |

Pk - Peak detector



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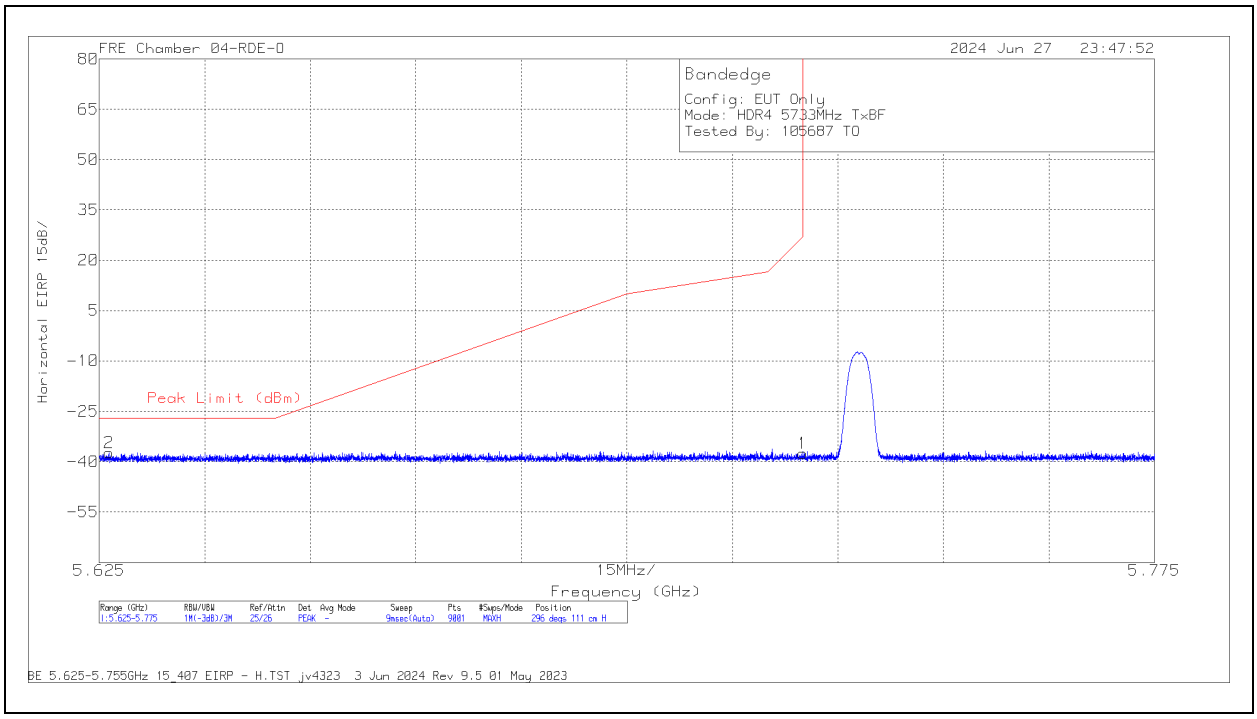
## ANT 6 + ANT 5, MIMO TXBF MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.626367 | -49.98 | Pk | 35.1 | 11.8 | -34.2 | -37.28 | -27 | -10.28 | 296 | 111 | H |
| 1 | 5.725 | -50.46 | Pk | 35.2 | 11.8 | -34.1 | -37.56 | 27 | -64.56 | 296 | 111 | H |

Pk - Peak detector



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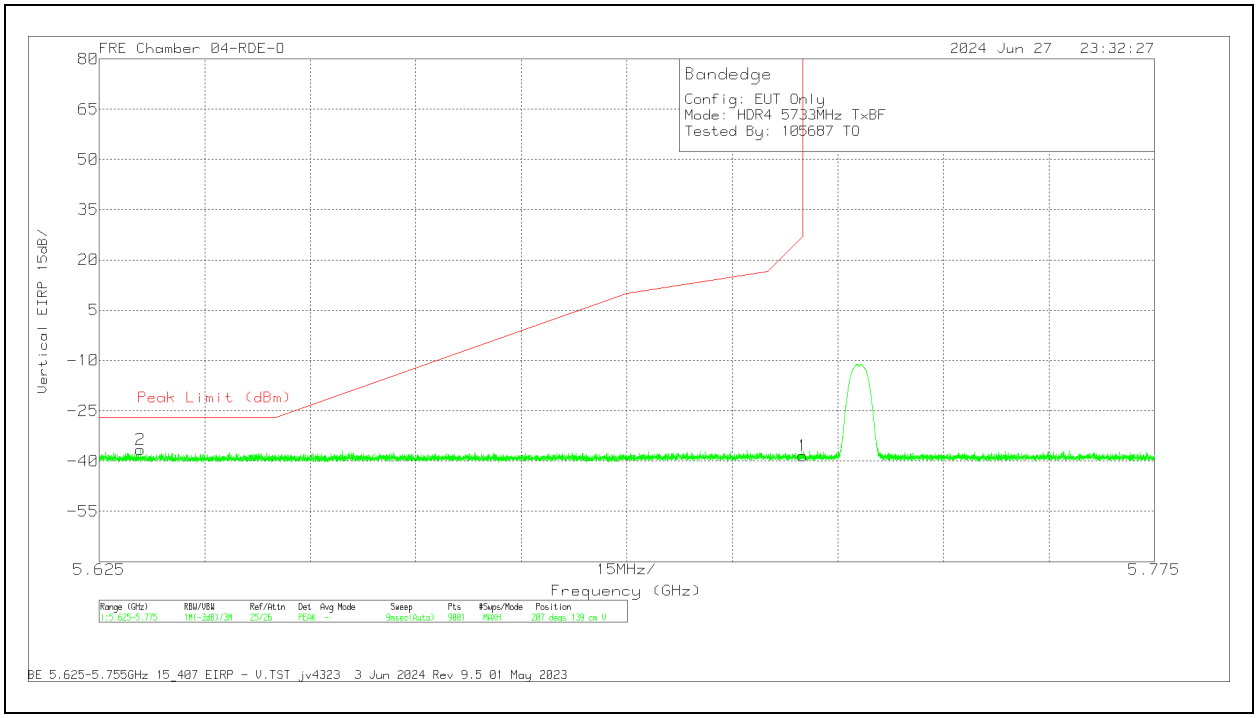
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.63085 | -49.39 | Pk | 35.1 | 11.8 | -34.11 | -36.6 | -27 | -9.6 | 207 | 139 | V |
| 1 | 5.725 | -51.36 | Pk | 35.2 | 11.8 | -34.1 | -38.46 | 27 | -65.46 | 207 | 139 | V |

Pk - Peak detector



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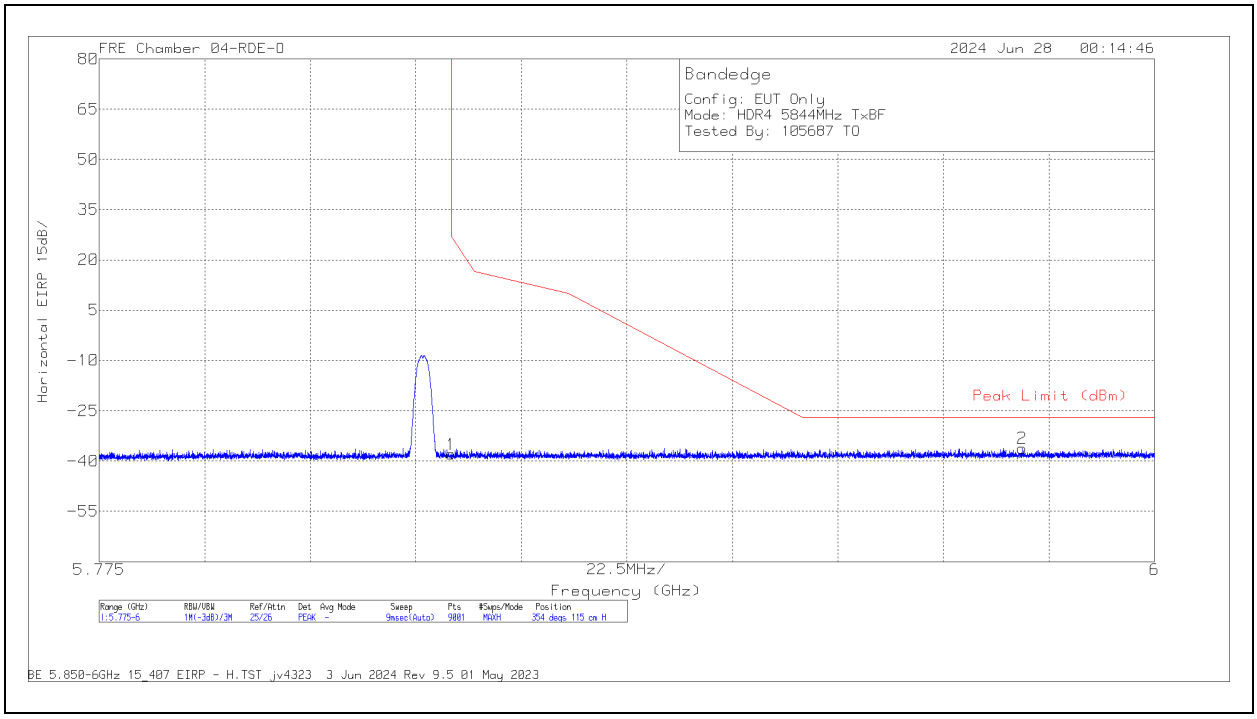
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.39 | Pk | 35.4 | 11.8 | -33.8 | -37.99 | 27 | -64.99 | 354 | 115 | H |
| 2 | 5.971775 | -49.77 | Pk | 35.6 | 11.8 | -33.78 | -36.15 | -27 | -9.15 | 354 | 115 | H |

Pk - Peak detector



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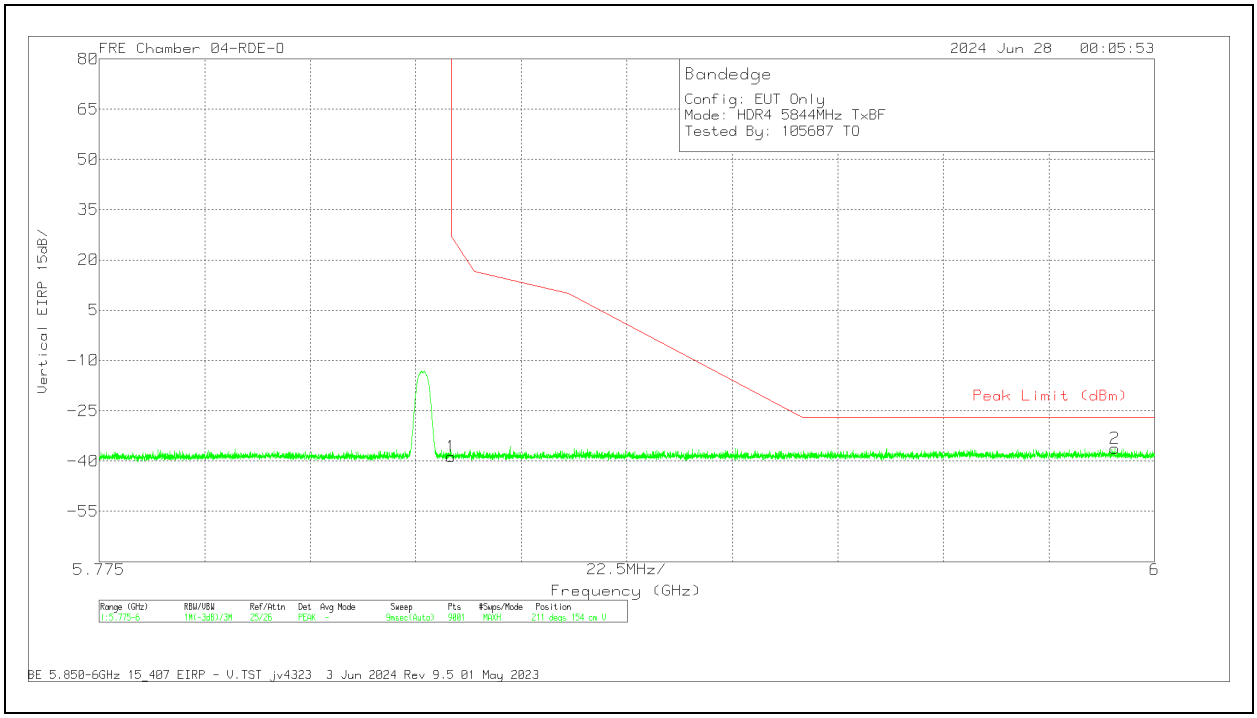
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.06 | Pk | 35.4 | 11.8 | -33.8 | -38.66 | 27 | -65.66 | 211 | 154 | V |
| 2 | 5.991575 | -50.11 | Pk | 35.6 | 11.8 | -33.56 | -36.27 | -27 | -9.27 | 211 | 154 | V |

Pk - Peak detector



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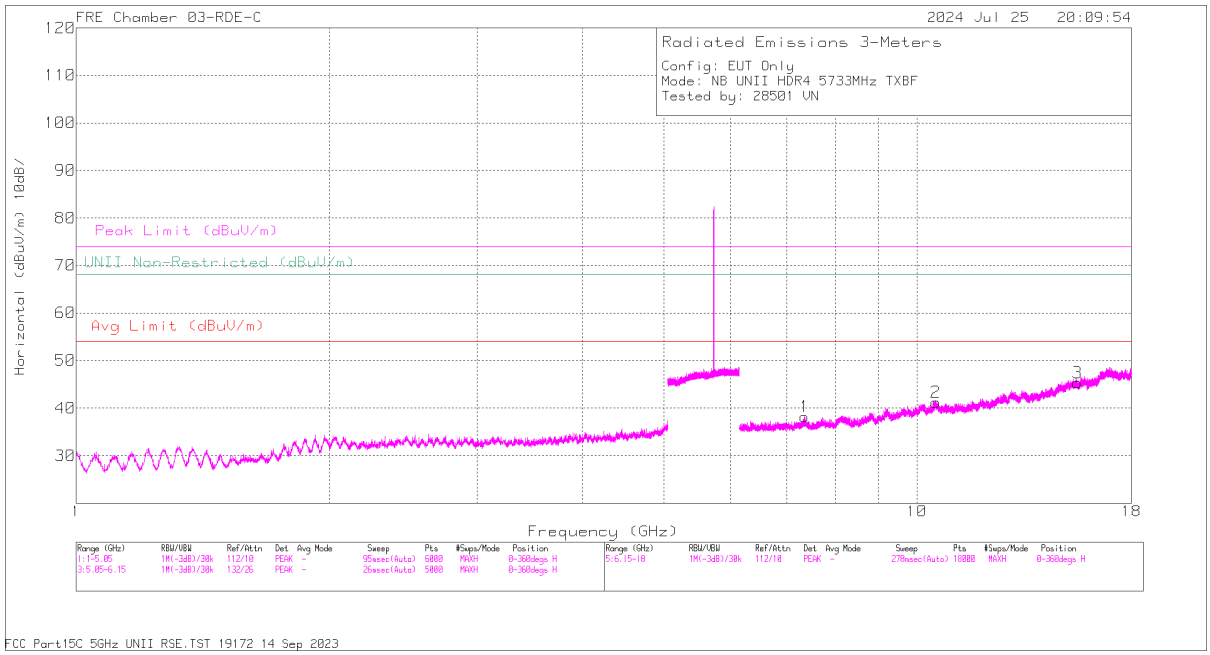
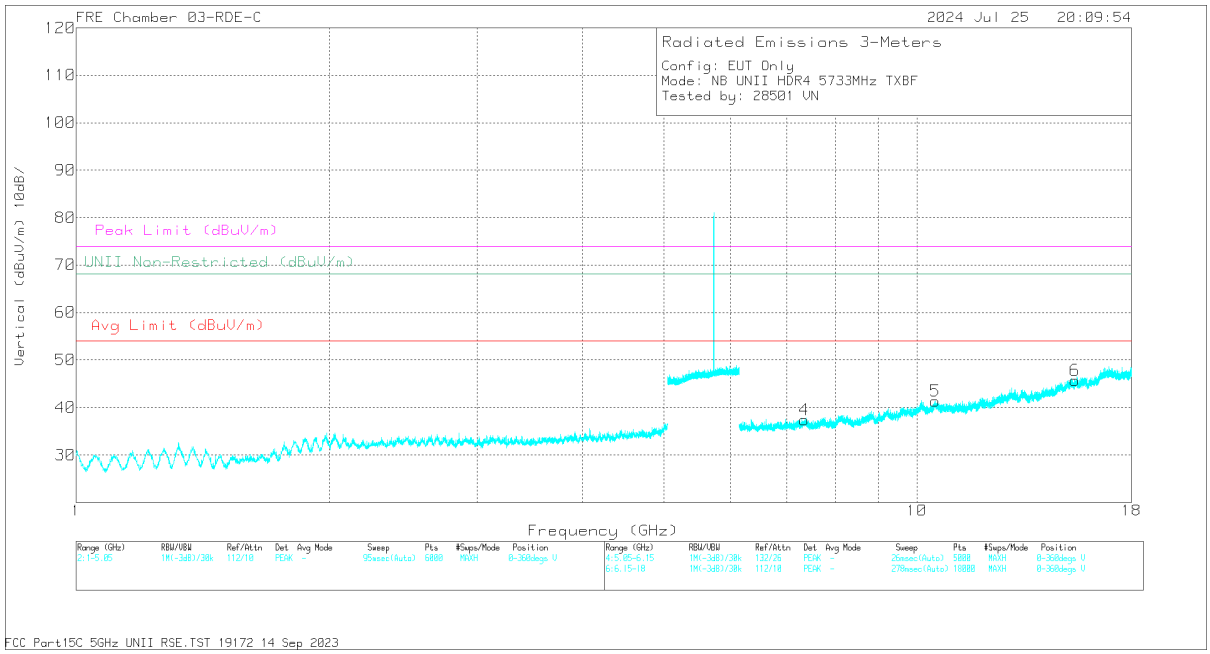
## 10.1.20. HDR 4 LOW POWER, UNII-3 BAND, HARMONIC AND SPURIOUS

### LOW CHANNEL, 5733 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230384 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.35334 | 56.88 | PK-U | 35.7 | -45.3 | 47.28 | - | - | 74 | -26.72 | - | - | 360 | 200 | H |
| | * 7.35226 | 45.63 | ADR | 35.7 | -45.37 | 35.96 | 54 | -18.04 | - | - | - | - | 360 | 200 | H |
| 3 | * 15.5221 | 58.26 | PK-U | 40.2 | -43.1 | 55.36 | - | - | 74 | -18.64 | - | - | 360 | 200 | H |
| | * 15.5192 | 46.48 | ADR | 40.2 | -43.17 | 43.51 | 54 | -10.49 | - | - | - | - | 360 | 200 | H |
| 4 | * 7.34602 | 56.95 | PK-U | 35.7 | -45.4 | 47.25 | - | - | 74 | -26.75 | - | - | 360 | 200 | V |
| | * 7.34717 | 45.48 | ADR | 35.7 | -45.4 | 35.78 | 54 | -18.22 | - | - | - | - | 360 | 200 | V |
| 6 | * 15.4309 | 58.57 | PK-U | 40.1 | -43.19 | 55.48 | - | - | 74 | -18.52 | - | - | 360 | 101 | V |
| | * 15.4306 | 47.07 | ADR | 40.1 | -43.17 | 44 | 54 | -10 | - | - | - | - | 360 | 101 | V |
| 5 | 10.510499 | 56.9 | PK-U | 37.7 | -43.5 | 51.1 | - | - | - | - | 68.2 | -17.1 | 360 | 200 | V |
| 2 | 10.528416 | 57.16 | PK-U | 37.7 | -43.6 | 51.26 | - | - | - | - | 68.2 | -16.94 | 360 | 101 | H |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average


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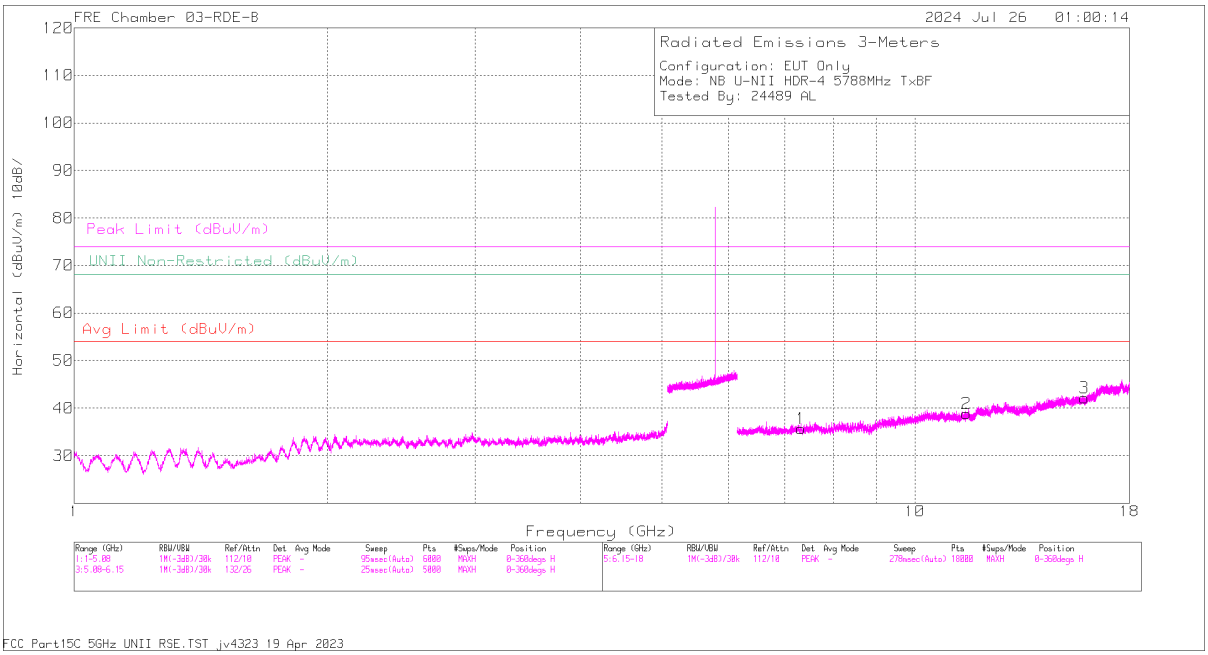
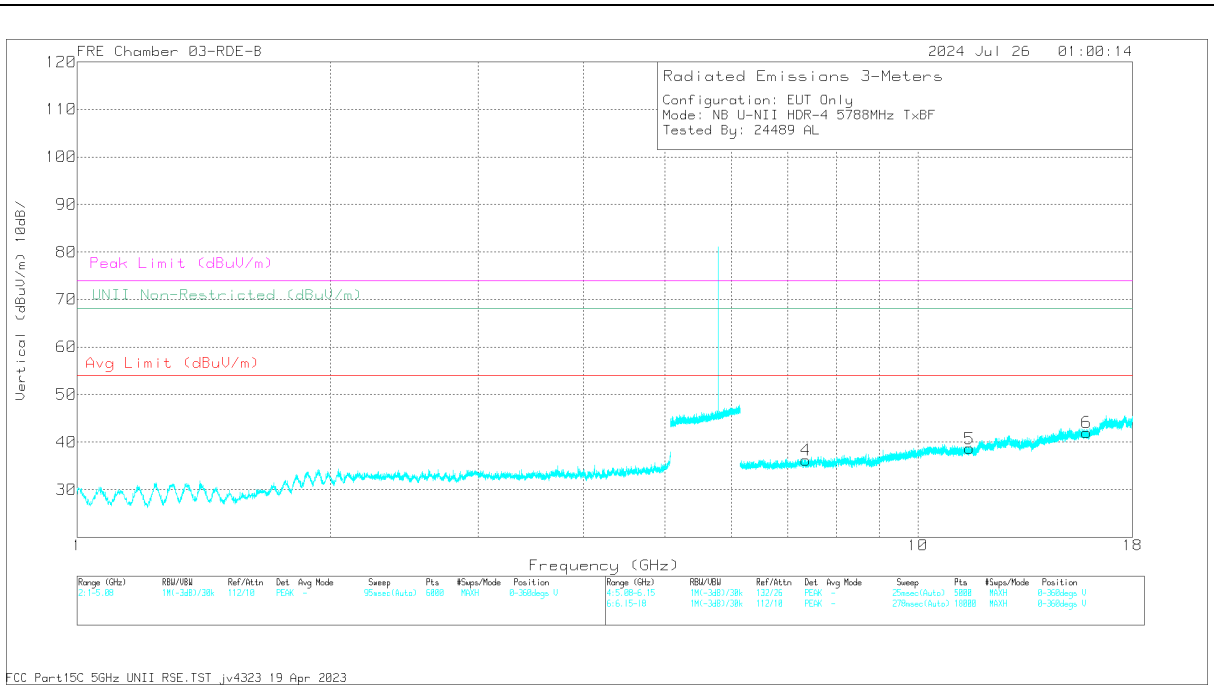
## MID CHANNEL, 5788 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.32863 | 58.44 | PK-U | 35.8 | -48.2 | 46.04 | - | - | 74 | -27.96 | 360 | 101 | H |
| | * 7.326171 | 46.91 | ADR | 35.8 | -48.2 | 34.51 | 54 | -19.49 | - | - | 360 | 101 | H |
| 2 | * 11.52077 | 57.32 | PK-U | 38.2 | -46.8 | 48.72 | - | - | 74 | -25.28 | 360 | 200 | H |
| | * 11.51773 | 45.96 | ADR | 38.2 | -46.8 | 37.36 | 54 | -16.64 | - | - | 360 | 200 | H |
| 3 | * 15.90899 | 59.14 | PK-U | 40.4 | -46.7 | 52.84 | - | - | 74 | -21.16 | 360 | 101 | H |
| | * 15.90748 | 46.6 | ADR | 40.4 | -46.6 | 40.4 | 54 | -13.6 | - | - | 360 | 101 | H |
| 4 | * 7.356145 | 58.41 | PK-U | 35.8 | -48.4 | 45.81 | - | - | 74 | -28.19 | 360 | 200 | V |
| | * 7.358633 | 46.8 | ADR | 35.8 | -48.4 | 34.2 | 54 | -19.8 | - | - | 360 | 200 | V |
| 5 | * 11.51351 | 58.04 | PK-U | 38.2 | -46.8 | 49.44 | - | - | 74 | -24.56 | 360 | 101 | V |
| | * 11.51090 | 46 | ADR | 38.2 | -46.8 | 37.4 | 54 | -16.6 | - | - | 360 | 101 | V |
| 6 | * 15.88250 | 58.21 | PK-U | 40.3 | -46.5 | 52.01 | - | - | 74 | -21.99 | 360 | 200 | V |
| | * 15.88321 | 46.84 | ADR | 40.3 | -46.5 | 40.64 | 54 | -13.36 | - | - | 360 | 200 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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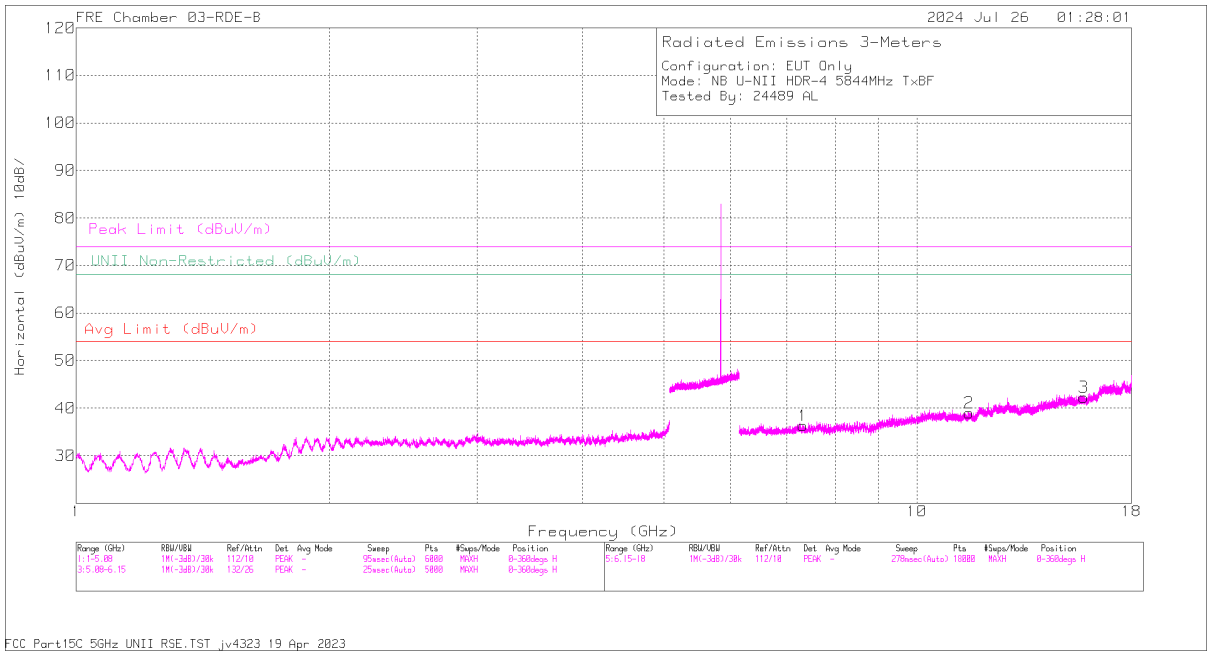
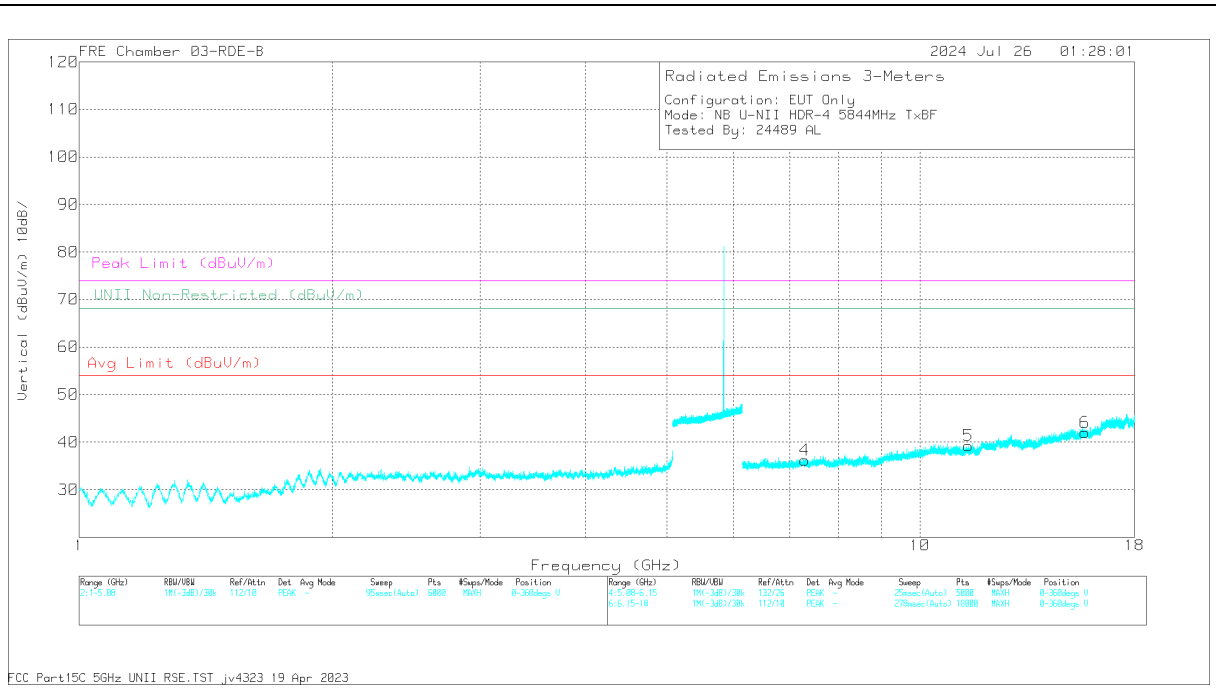
## HIGH CHANNEL, 5844 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.328316 | 59.5 | PK-U | 35.8 | -48.2 | 47.1 | - | - | 74 | -26.9 | 360 | 200 | H |
| | * 7.326598 | 47.07 | ADR | 35.8 | -48.2 | 34.67 | 54 | -19.33 | - | - | 360 | 200 | H |
| 2 | * 11.54062 | 57.53 | PK-U | 38.2 | -46.56 | 49.17 | - | - | 74 | -24.83 | 360 | 101 | H |
| | * 11.54238 | 45.69 | ADR | 38.2 | -46.5 | 37.39 | 54 | -16.61 | - | - | 360 | 101 | H |
| 3 | * 15.78998 | 58.63 | PK-U | 40.3 | -46.6 | 52.33 | - | - | 74 | -21.67 | 360 | 101 | H |
| | * 15.79028 | 47 | ADR | 40.3 | -46.6 | 40.7 | 54 | -13.3 | - | - | 360 | 101 | H |
| 4 | * 7.297644 | 58.03 | PK-U | 35.8 | -47.8 | 46.03 | - | - | 74 | -27.97 | 360 | 101 | V |
| | * 7.297998 | 46.37 | ADR | 35.8 | -47.8 | 34.37 | 54 | -19.63 | - | - | 360 | 101 | V |
| 5 | * 11.41558 | 58.01 | PK-U | 38.1 | -46.6 | 49.51 | - | - | 74 | -24.49 | 360 | 200 | V |
| | * 11.41759 | 45.7 | ADR | 38.1 | -46.66 | 37.14 | 54 | -16.86 | - | - | 360 | 200 | V |
| 6 | * 15.72550 | 58.19 | PK-U | 40.2 | -46.8 | 51.59 | - | - | 74 | -22.41 | 360 | 101 | V |
| | * 15.72664 | 46.64 | ADR | 40.2 | -46.8 | 40.04 | 54 | -13.96 | - | - | 360 | 101 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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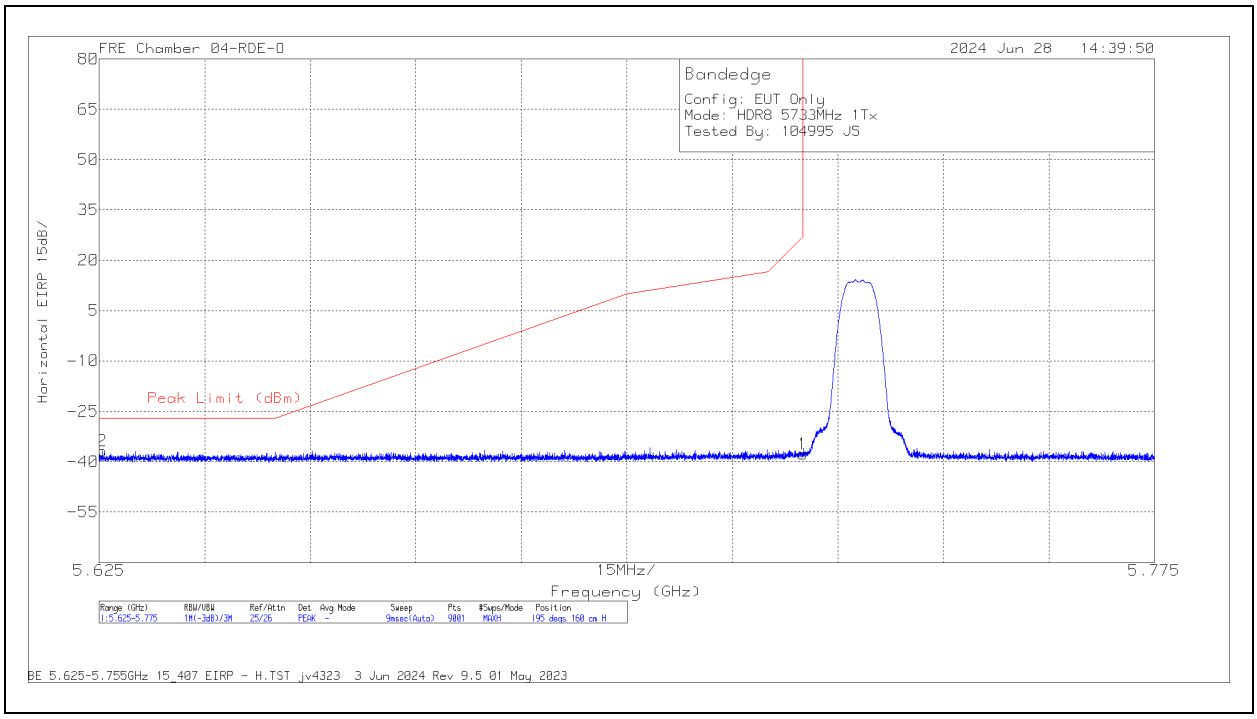
## 10.1.21. HDR 8 HIGH POWER, UNII-3 BAND, BANDEDGE

## ANT 6, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.625467 | -49.59 | Pk | 35.1 | 11.8 | -34.15 | -36.84 | -27 | -9.84 | 195 | 160 | H |
| 1 | 5.725 | -50.66 | Pk | 35.2 | 11.8 | -34.1 | -37.76 | 27 | -64.76 | 195 | 160 | H |

Pk - Peak detector



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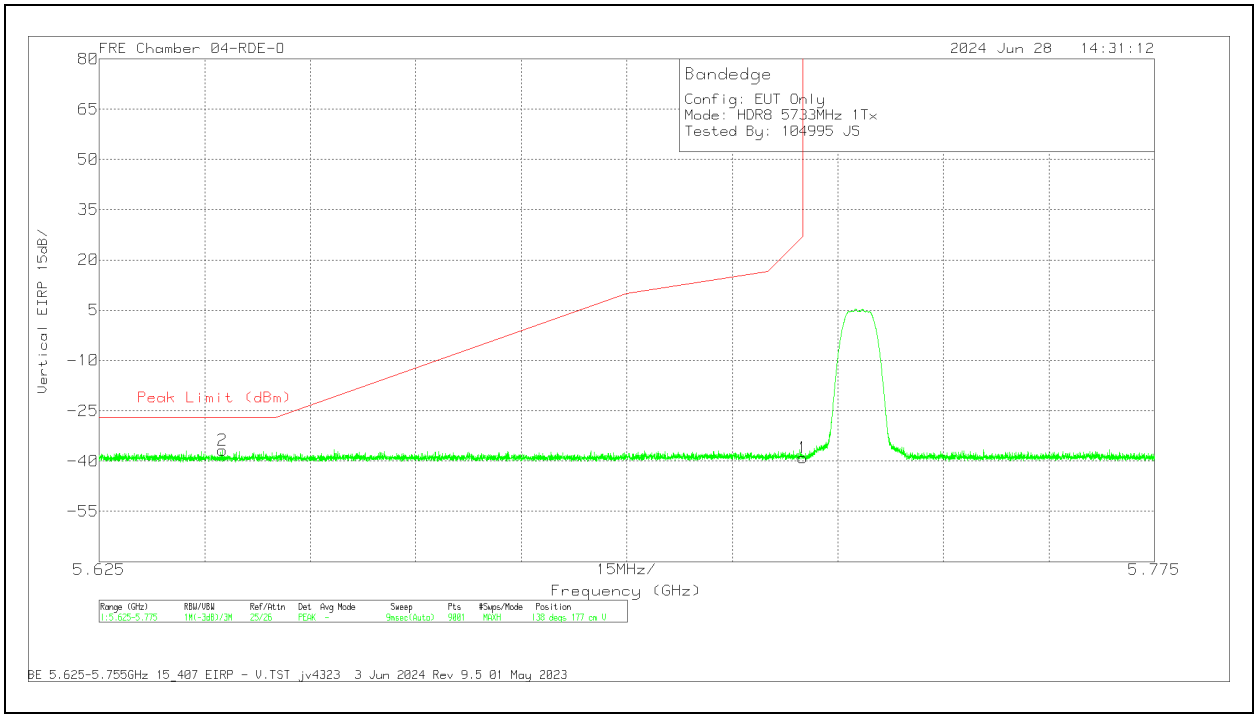
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.64255 | -49.34 | Pk | 35.1 | 11.8 | -34.26 | -36.7 | -27 | -9.7 | 138 | 177 | V |
| 1 | 5.725 | -51.85 | Pk | 35.2 | 11.8 | -34.1 | -38.95 | 27 | -65.95 | 138 | 177 | V |

Pk - Peak detector



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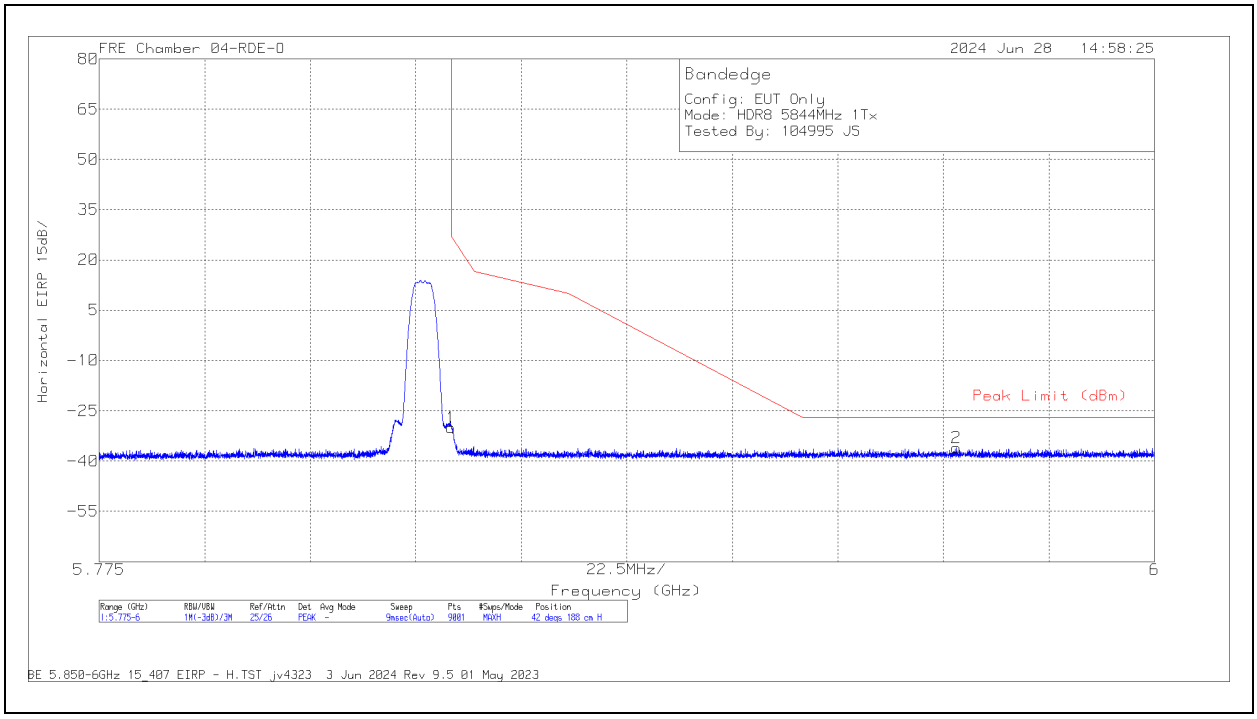
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -43.44 | Pk | 35.4 | 11.8 | -33.8 | -30.04 | 27 | -57.04 | 42 | 188 | H |
| 2 | 5.957725 | -49.81 | Pk | 35.6 | 11.8 | -33.57 | -35.98 | -27 | -8.98 | 42 | 188 | H |

Pk - Peak detector



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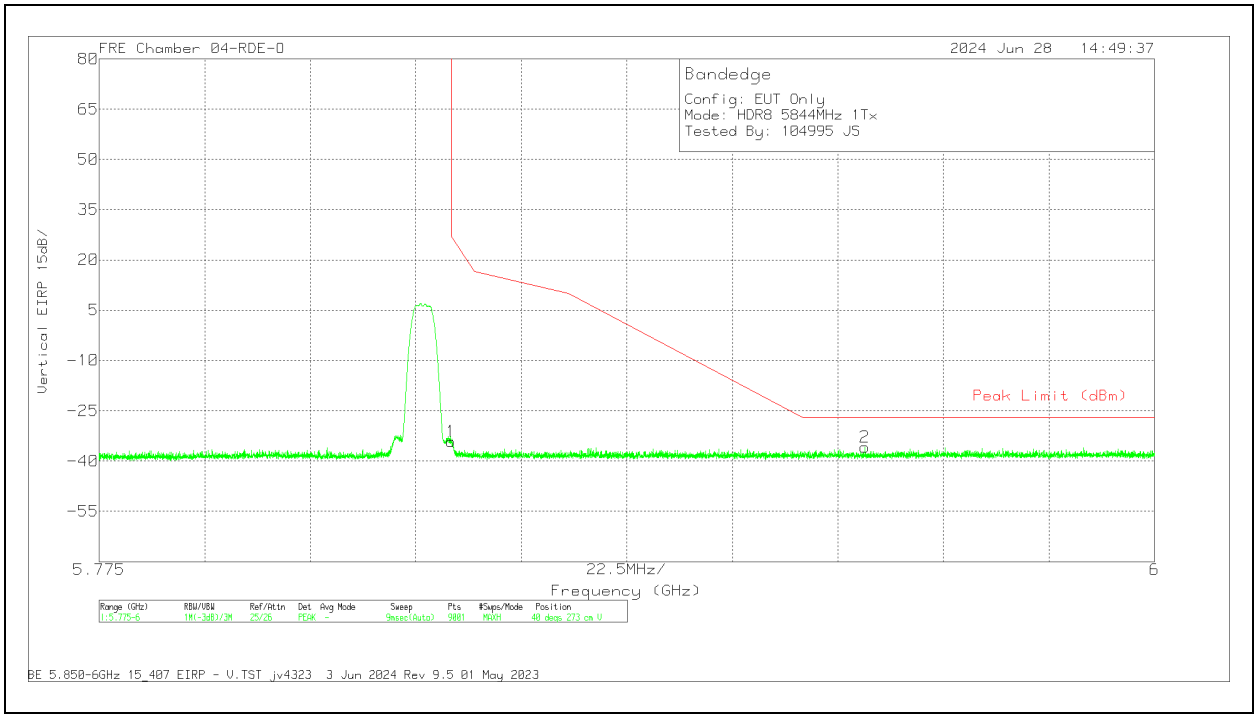
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -47.61 | Pk | 35.4 | 11.8 | -33.8 | -34.21 | 27 | -61.21 | 40 | 273 | V |
| 2 | 5.938225 | -49.69 | Pk | 35.5 | 11.8 | -33.5 | -35.89 | -27 | -8.89 | 40 | 273 | V |

Pk - Peak detector



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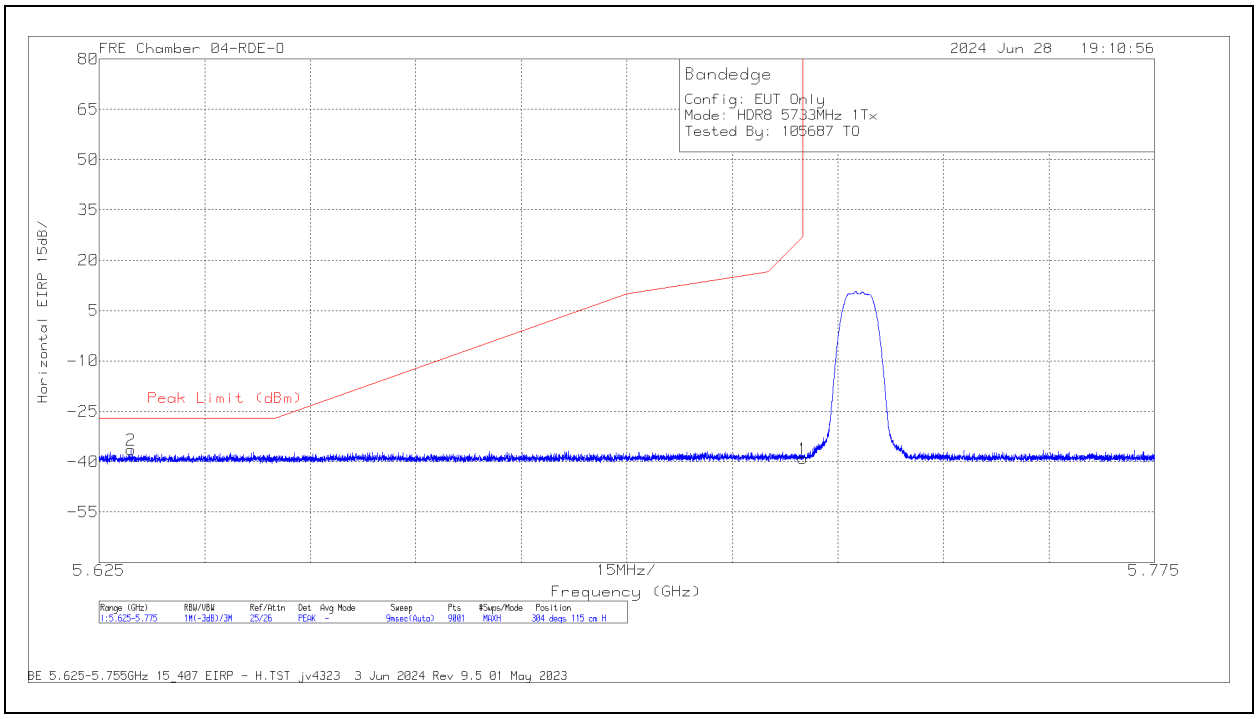
## ANT 5, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.6295 | -49.24 | Pk | 35.1 | 11.8 | -34.15 | -36.49 | -27 | -9.49 | 304 | 115 | H |
| 1 | 5.725 | -52.01 | Pk | 35.2 | 11.8 | -34.1 | -39.11 | 27 | -66.11 | 304 | 115 | H |

Pk - Peak detector



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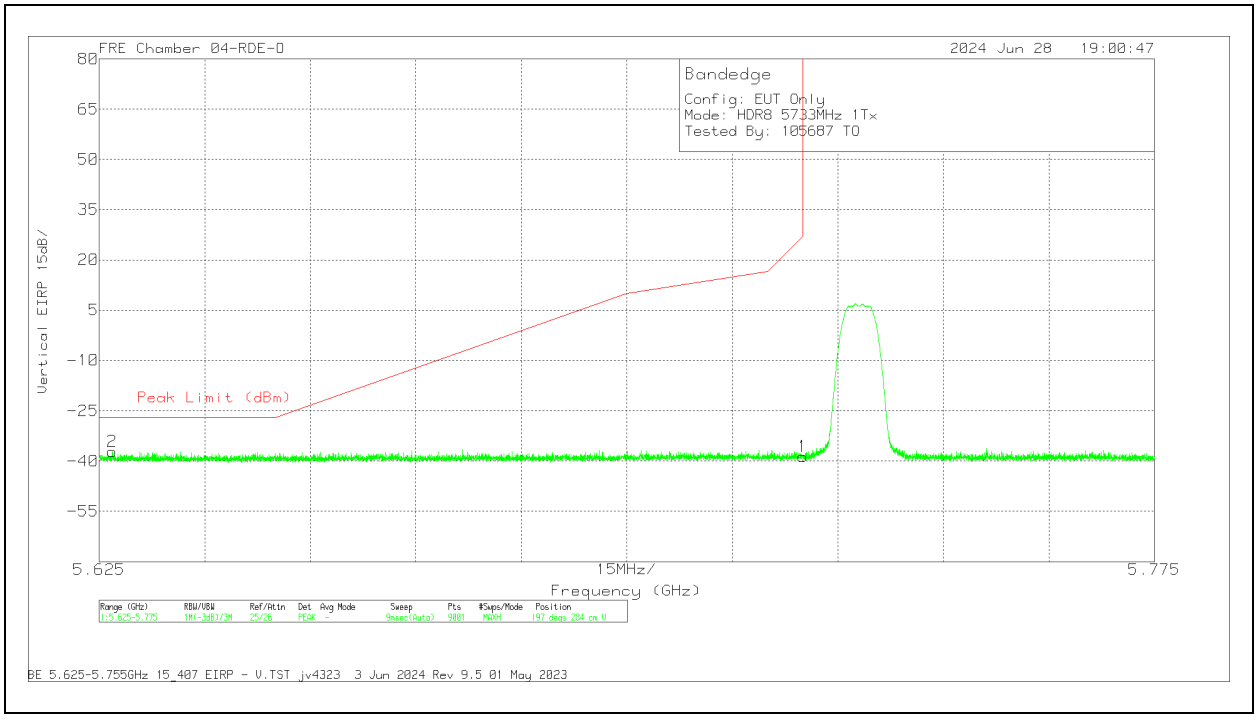
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.626817 | -49.83 | Pk | 35.1 | 11.8 | -34.2 | -37.13 | -27 | -10.13 | 197 | 284 | V |
| 1 | 5.725 | -51.5 | Pk | 35.2 | 11.8 | -34.1 | -38.6 | 27 | -65.6 | 197 | 284 | V |

Pk - Peak detector



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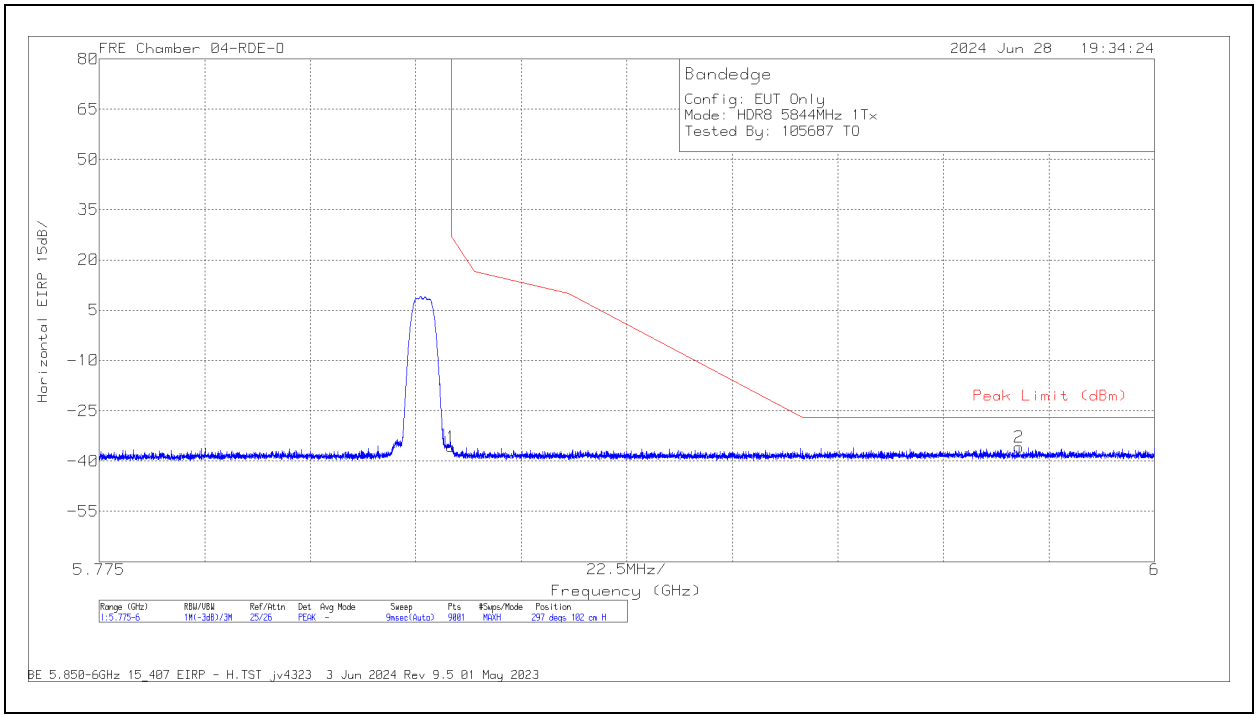
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -49.15 | Pk | 35.4 | 11.8 | -33.8 | -35.75 | 27 | -62.75 | 297 | 102 | H |
| 2 | 5.971125 | -49.46 | Pk | 35.6 | 11.8 | -33.71 | -35.77 | -27 | -8.77 | 297 | 102 | H |

Pk - Peak detector



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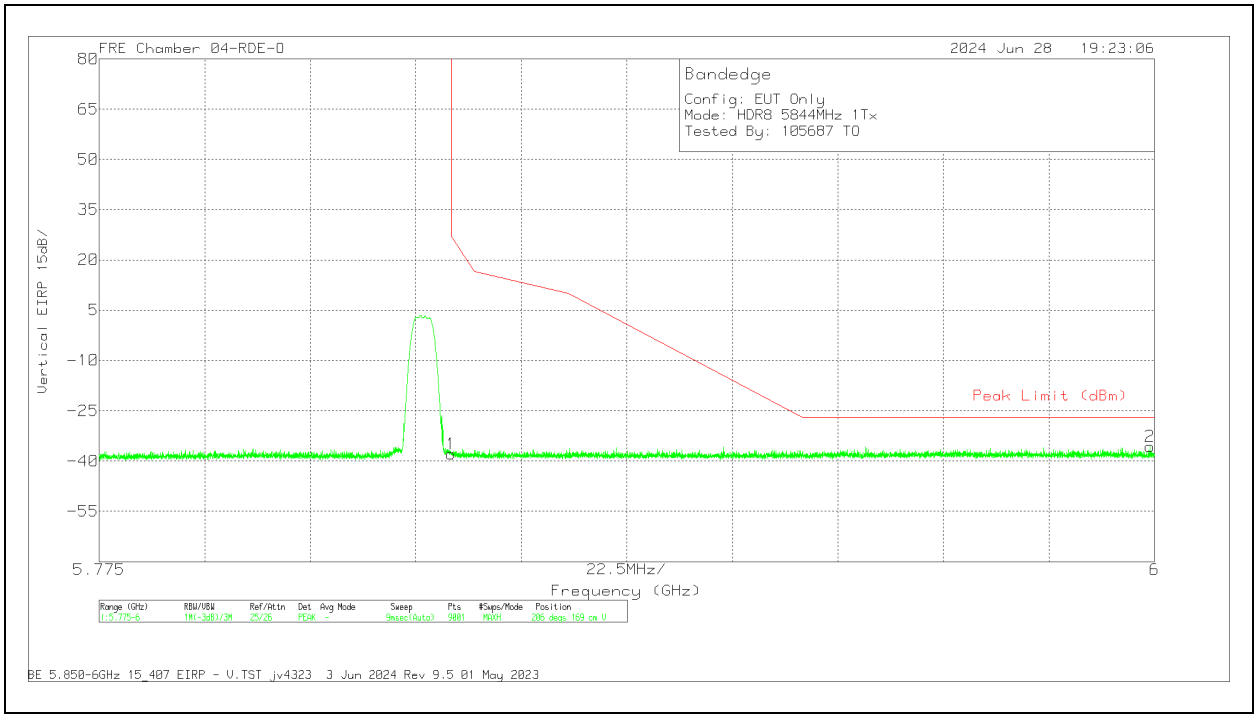
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.34 | Pk | 35.4 | 11.8 | -33.8 | -37.94 | 27 | -64.94 | 206 | 169 | V |
| 2 | 5.9991 | -49.28 | Pk | 35.6 | 11.8 | -33.69 | -35.57 | -27 | -8.57 | 206 | 169 | V |

Pk - Peak detector



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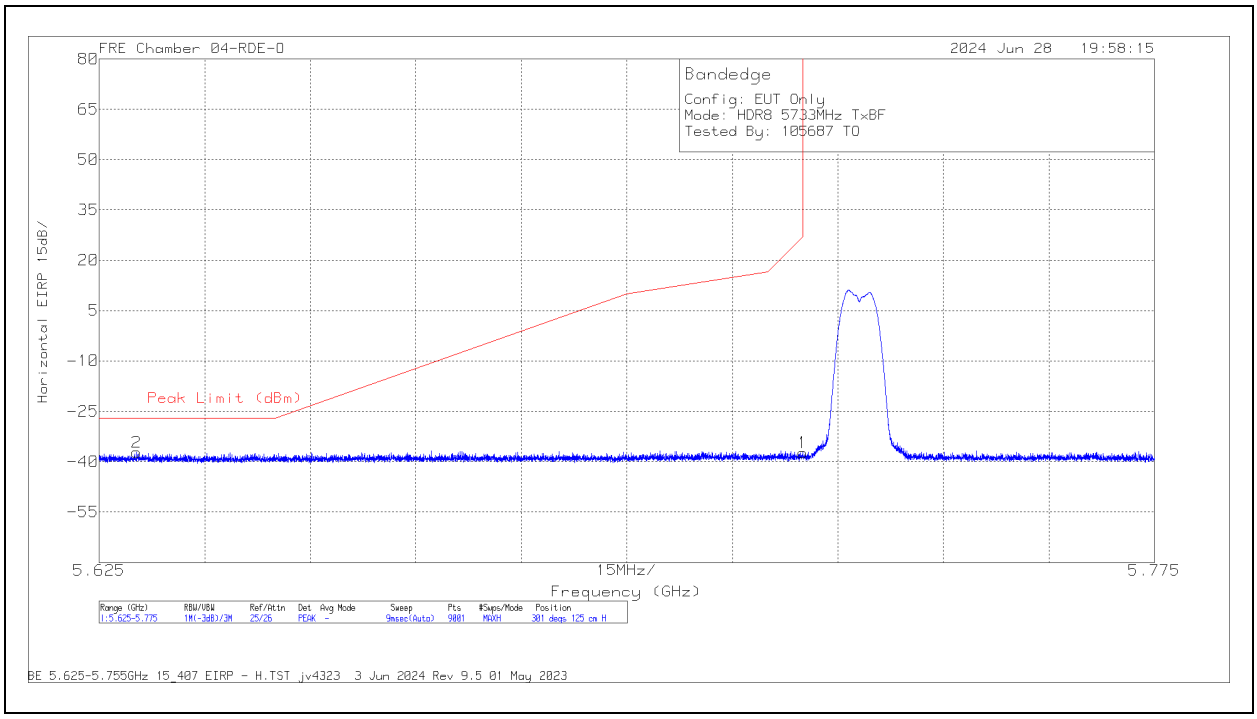
## ANT 6 + ANT 5, MIMO TXBF MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.630317 | -49.96 | Pk | 35.1 | 11.8 | -34.17 | -37.23 | -27 | -10.23 | 301 | 125 | H |
| 1 | 5.725 | -50.22 | Pk | 35.2 | 11.8 | -34.1 | -37.32 | 27 | -64.32 | 301 | 125 | H |

Pk - Peak detector



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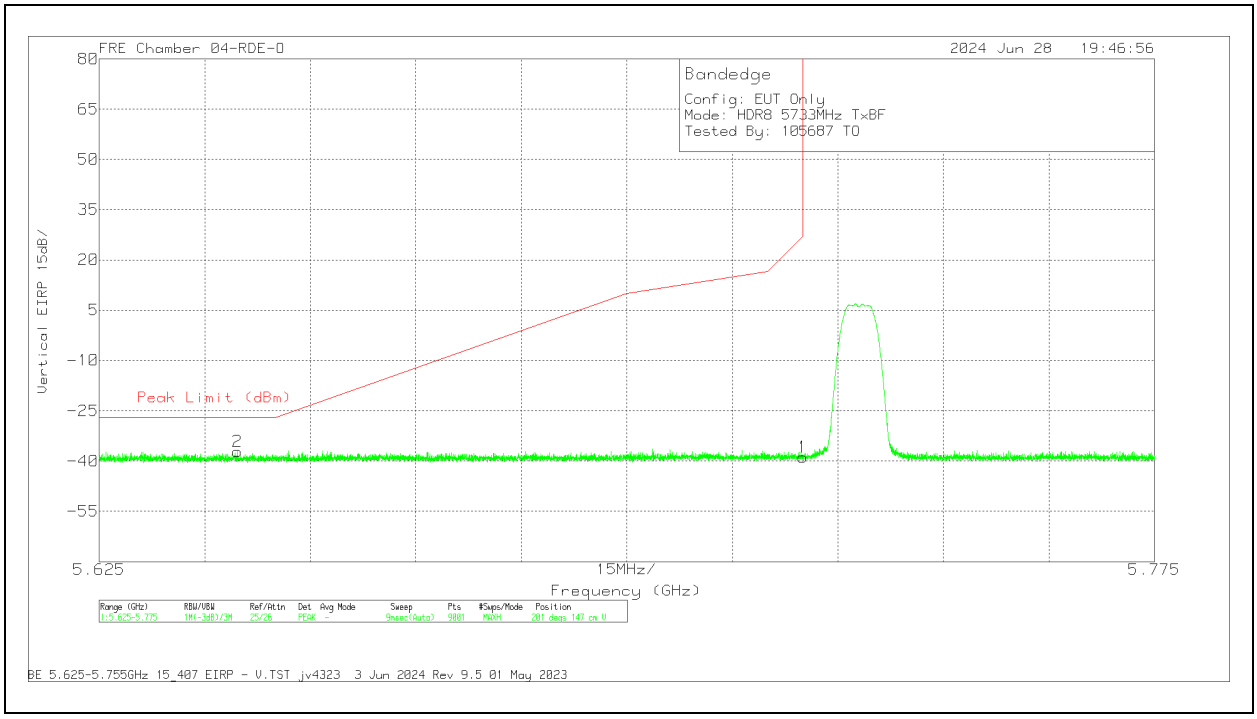
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.644667 | -49.74 | Pk | 35.1 | 11.8 | -34.27 | -37.11 | -27 | -10.11 | 201 | 147 | V |
| 1 | 5.725 | -51.65 | Pk | 35.2 | 11.8 | -34.1 | -38.75 | 27 | -65.75 | 201 | 147 | V |

Pk - Peak detector



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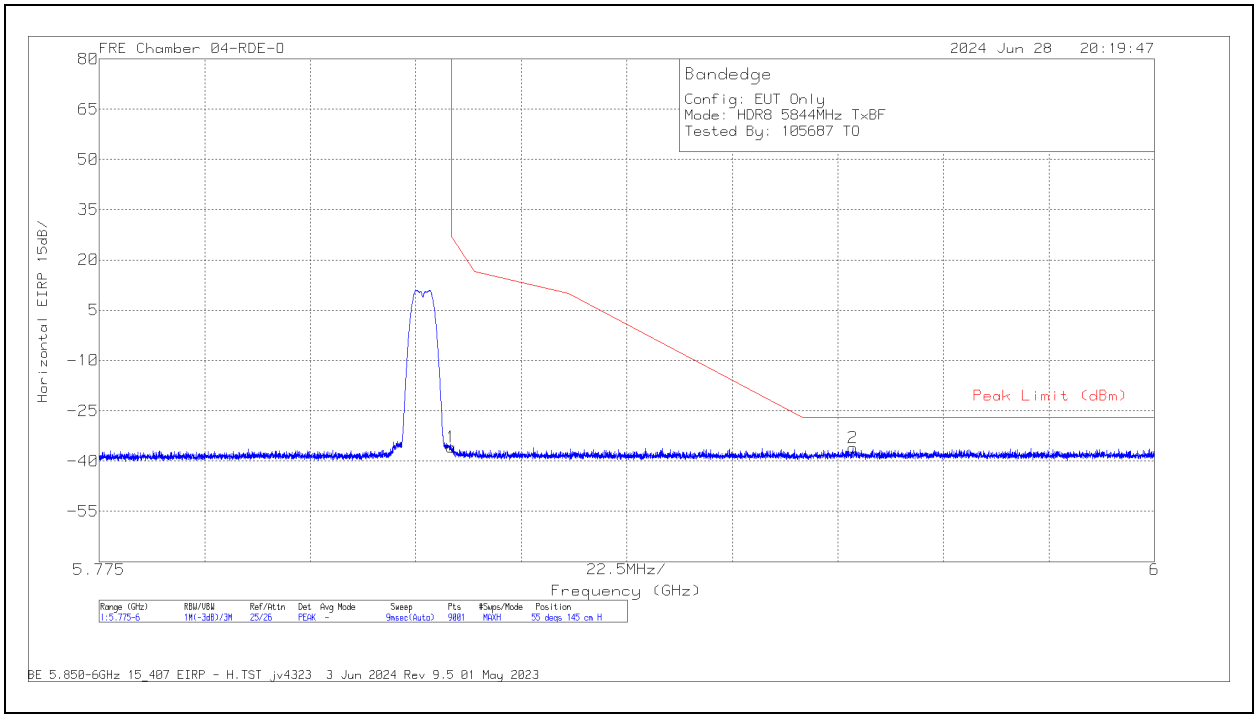
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -49.24 | Pk | 35.4 | 11.8 | -33.8 | -35.84 | 27 | -62.84 | 55 | 145 | H |
| 2 | 5.935725 | -49.74 | Pk | 35.5 | 11.8 | -33.5 | -35.94 | -27 | -8.94 | 55 | 145 | H |

Pk - Peak detector



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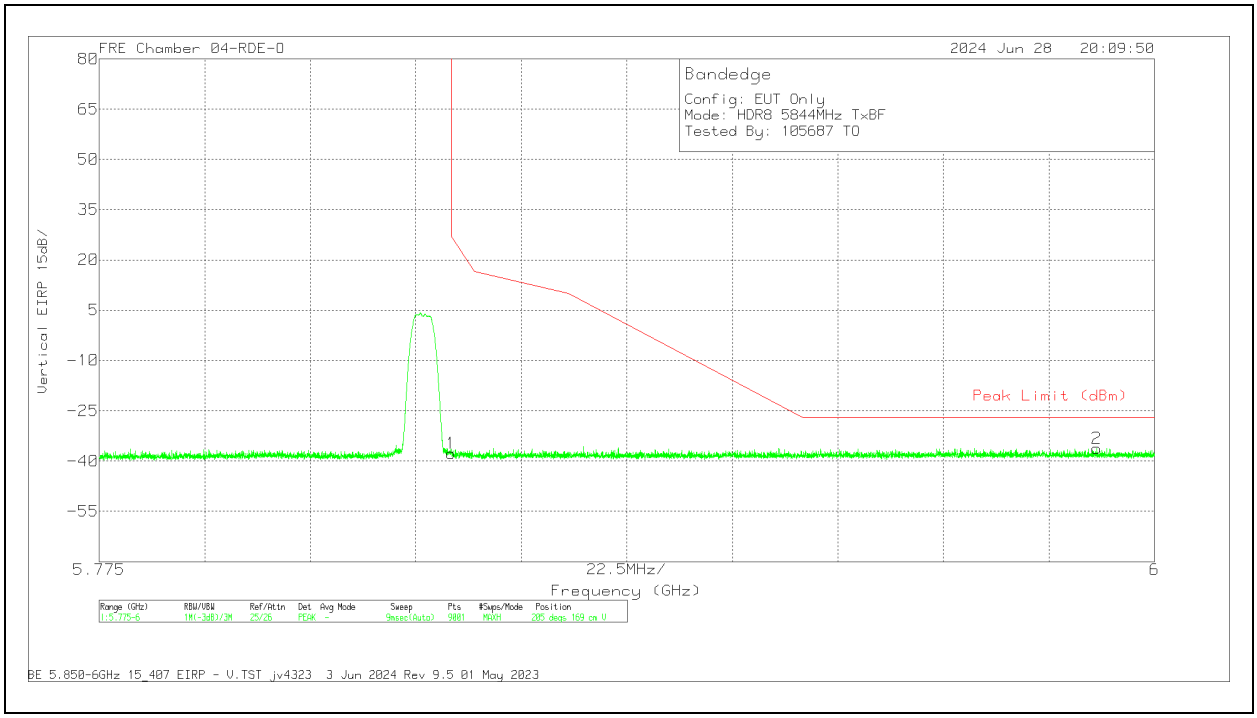
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.1 | Pk | 35.4 | 11.8 | -33.8 | -37.7 | 27 | -64.7 | 205 | 169 | V |
| 2 | 5.987725 | -50.01 | Pk | 35.6 | 11.8 | -33.53 | -36.14 | -27 | -9.14 | 205 | 169 | V |

Pk - Peak detector



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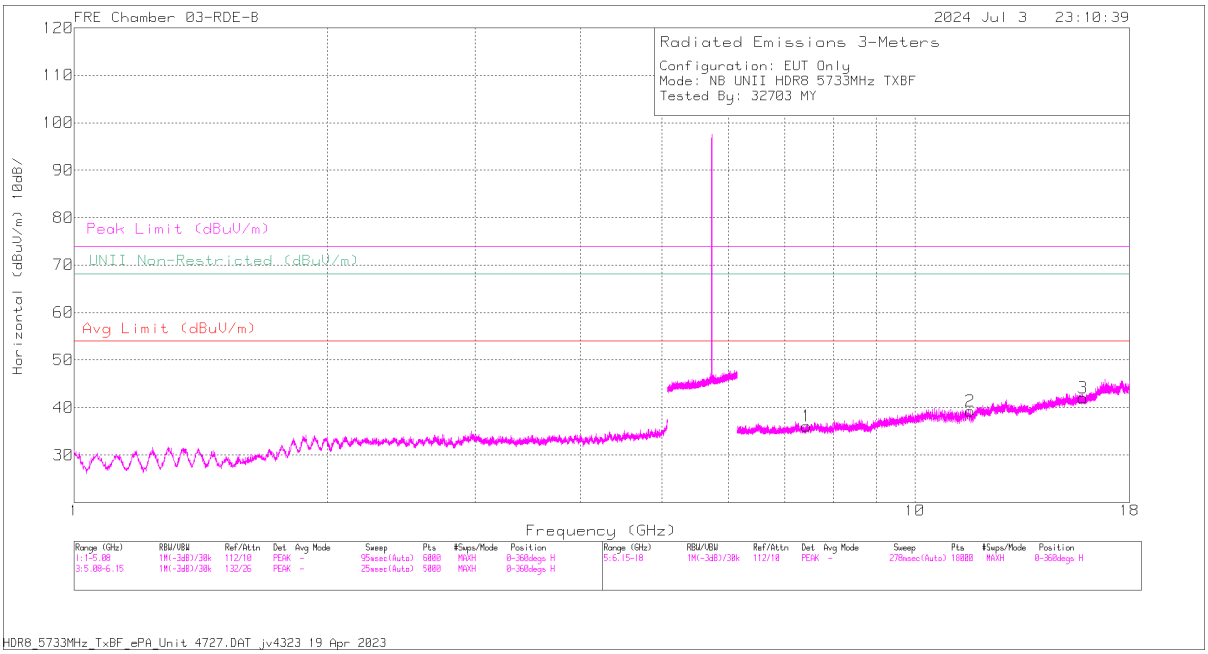
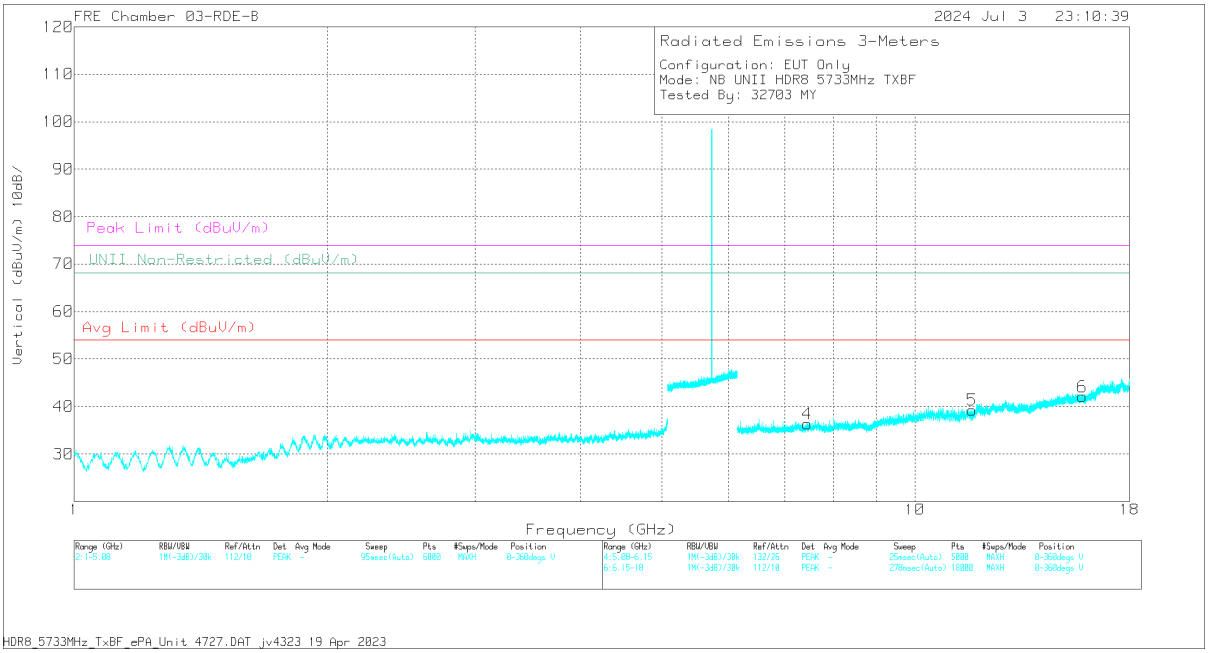
## 10.1.22. HDR 8 HIGH POWER, UNII-3 BAND, HARMONIC AND SPURIOUS

### LOW CHANNEL, 5733 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.431171 | 58.09 | PK-U | 35.9 | -47.7 | 46.29 | - | - | 74 | -27.71 | 0 | 101 | H |
| | * 7.433463 | 46.71 | ADR | 35.9 | -47.7 | 34.91 | 54 | -19.09 | - | - | 0 | 101 | H |
| 2 | * 11.634982 | 57.27 | PK-U | 38.3 | -46.5 | 49.07 | - | - | 74 | -24.93 | 0 | 101 | H |
| | * 11.636337 | 45.85 | ADR | 38.3 | -46.53 | 37.62 | 54 | -16.38 | - | - | 0 | 101 | H |
| 3 | * 15.854385 | 58.6 | PK-U | 40.3 | -46.54 | 52.36 | - | - | 74 | -21.64 | 0 | 101 | H |
| | * 15.85602 | 46.9 | ADR | 40.3 | -46.5 | 40.7 | 54 | -13.3 | - | - | 0 | 101 | H |
| 4 | * 7.443726 | 57.92 | PK-U | 35.9 | -47.8 | 46.02 | - | - | 74 | -27.98 | 0 | 200 | V |
| | * 7.444641 | 46.47 | ADR | 35.9 | -47.8 | 34.57 | 54 | -19.43 | - | - | 0 | 200 | V |
| 5 | * 11.696538 | 57.9 | PK-U | 38.4 | -46.75 | 49.55 | - | - | 74 | -24.45 | 0 | 200 | V |
| | * 11.696402 | 46.54 | ADR | 38.4 | -46.74 | 38.2 | 54 | -15.8 | - | - | 0 | 200 | V |
| 6 | * 15.817999 | 58.49 | PK-U | 40.3 | -46.4 | 52.39 | - | - | 74 | -21.61 | 0 | 200 | V |
| | * 15.818536 | 46.79 | ADR | 40.3 | -46.4 | 40.69 | 54 | -13.31 | - | - | 0 | 200 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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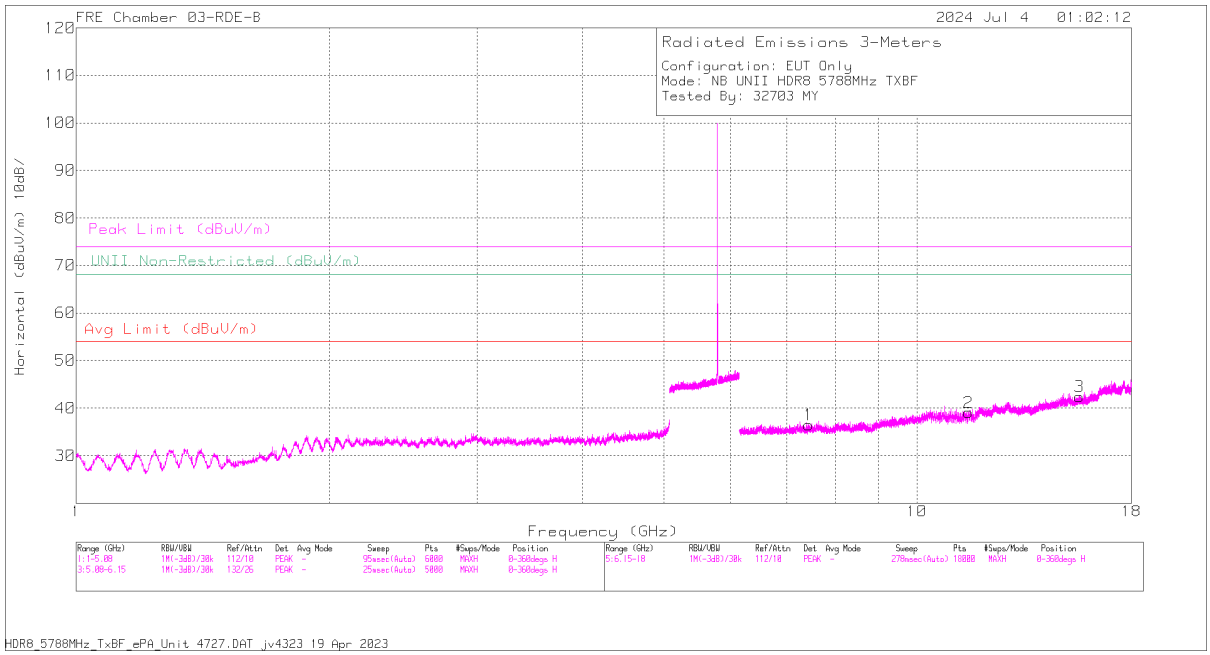
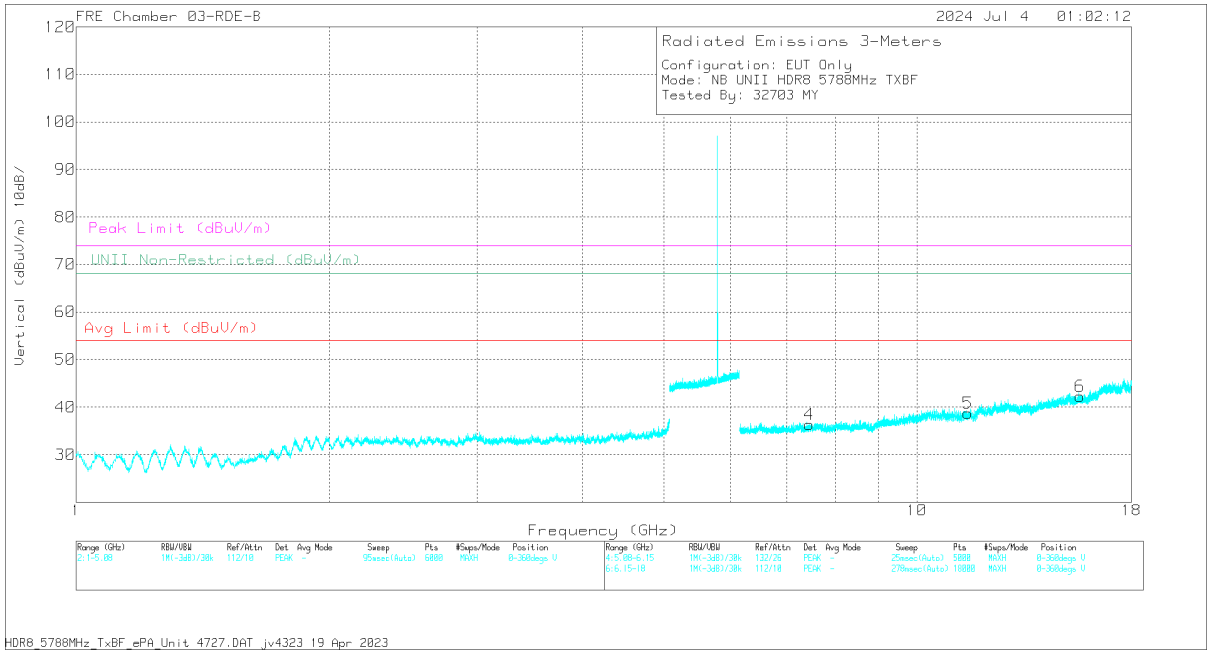
## MID CHANNEL, 5788 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.439672 | 58.19 | PK-U | 35.9 | -47.8 | 46.29 | - | - | 74 | -27.71 | 360 | 200 | H |
| | * 7.439312 | 46.64 | ADR | 35.9 | -47.8 | 34.74 | 54 | -19.26 | - | - | 360 | 200 | H |
| 2 | * 11.518409 | 58 | PK-U | 38.2 | -46.8 | 49.4 | - | - | 74 | -24.6 | 360 | 200 | H |
| | * 11.51666 | 46.44 | ADR | 38.2 | -46.8 | 37.84 | 54 | -16.16 | - | - | 360 | 200 | H |
| 3 | * 15.617059 | 58.16 | PK-U | 40.2 | -46.3 | 52.06 | - | - | 74 | -21.94 | 360 | 200 | H |
| | * 15.616086 | 46.28 | ADR | 40.1 | -46.3 | 40.08 | 54 | -13.92 | - | - | 360 | 200 | H |
| 4 | * 7.445884 | 58.41 | PK-U | 35.9 | -47.8 | 46.51 | - | - | 74 | -27.49 | 360 | 101 | V |
| | * 7.444313 | 46.39 | ADR | 35.9 | -47.8 | 34.49 | 54 | -19.51 | - | - | 360 | 101 | V |
| 5 | * 11.505458 | 58.11 | PK-U | 38.2 | -46.8 | 49.51 | - | - | 74 | -24.49 | 360 | 101 | V |
| | * 11.504768 | 45.98 | ADR | 38.2 | -46.82 | 37.36 | 54 | -16.64 | - | - | 360 | 101 | V |
| 6 | * 15.627057 | 57.63 | PK-U | 40.2 | -46.2 | 51.63 | - | - | 74 | -22.37 | 360 | 200 | V |
| | * 15.62952 | 45.98 | ADR | 40.2 | -46.2 | 39.98 | 54 | -14.02 | - | - | 360 | 200 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average


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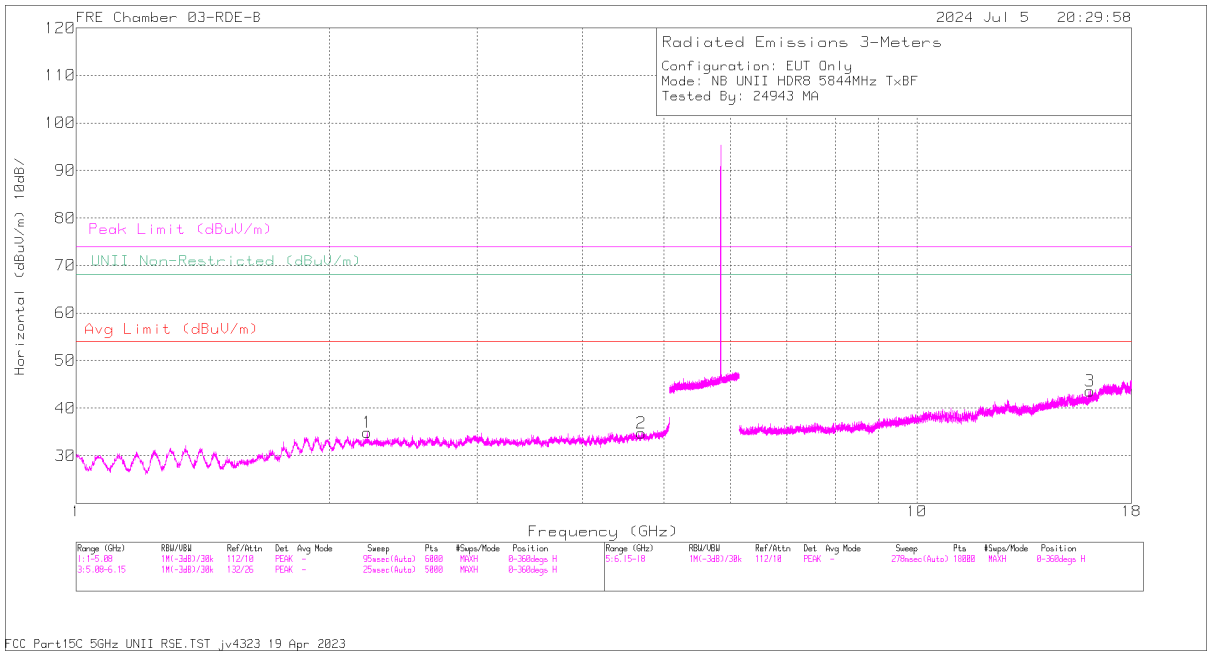
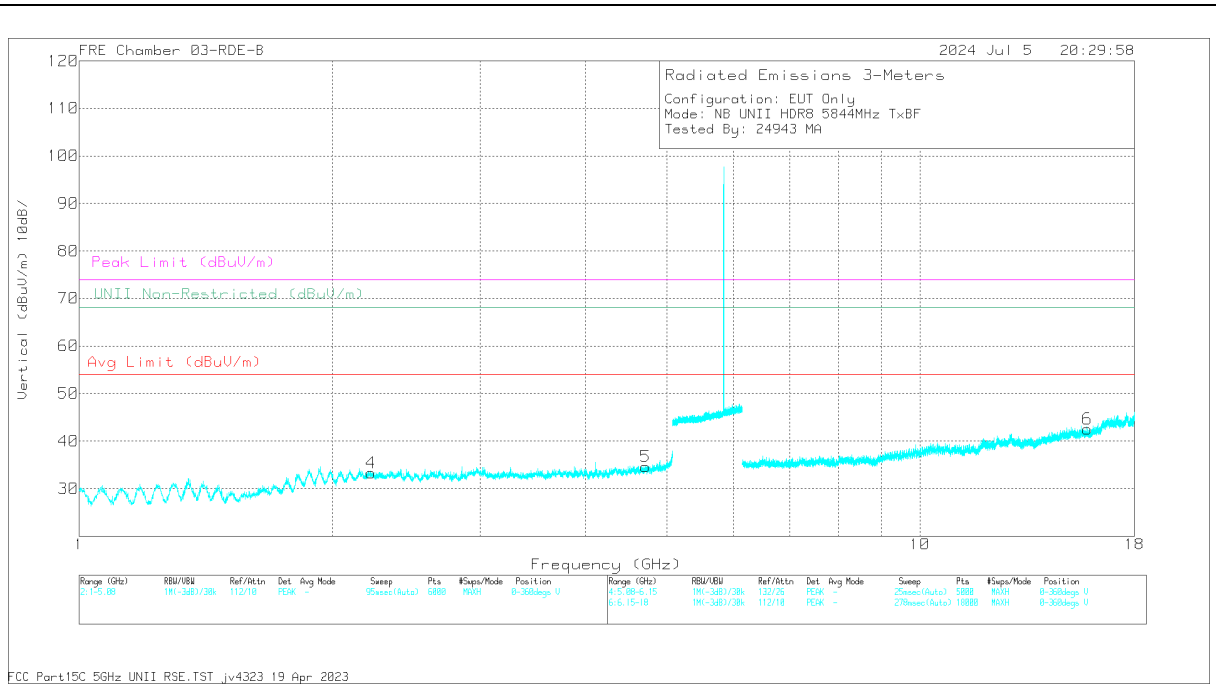
## HIGH CHANNEL, 5844 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 230300 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.21867 | 61.77 | PK-U | 31.9 | -50.2 | 43.47 | - | - | 74 | -30.53 | 2 | 101 | H |
| | * 2.216988 | 50.26 | ADR | 31.9 | -50.2 | 31.96 | 54 | -22.04 | - | - | 2 | 101 | H |
| 2 | * 4.701726 | 59.52 | PK-U | 34.3 | -49.1 | 44.72 | - | - | 74 | -29.28 | 2 | 101 | H |
| | * 4.701278 | 47.64 | ADR | 34.3 | -49.1 | 32.84 | 54 | -21.16 | - | - | 2 | 101 | H |
| 4 | * 2.225445 | 61.41 | PK-U | 31.9 | -50.2 | 43.11 | - | - | 74 | -30.89 | 2 | 200 | V |
| | * 2.223746 | 50.3 | ADR | 31.9 | -50.2 | 32 | 54 | -22 | - | - | 2 | 200 | V |
| 5 | * 4.719215 | 59.64 | PK-U | 34.3 | -49.2 | 44.74 | - | - | 74 | -29.26 | 2 | 200 | V |
| | * 4.716923 | 47.96 | ADR | 34.3 | -49.2 | 33.06 | 54 | -20.94 | - | - | 2 | 200 | V |
| 3 | * 16.07587 | 57.79 | PK-U | 40.6 | -46.4 | 51.99 | - | - | 74 | -22.01 | 2 | 101 | H |
| | * 16.077313 | 45.92 | ADR | 40.6 | -46.5 | 40.02 | 54 | -13.98 | - | - | 2 | 101 | H |
| 6 | * 15.816749 | 58.21 | PK-U | 40.3 | -46.4 | 52.11 | - | - | 74 | -21.89 | 2 | 101 | V |
| | * 15.817476 | 46.77 | ADR | 40.3 | -46.4 | 40.67 | 54 | -13.33 | - | - | 2 | 101 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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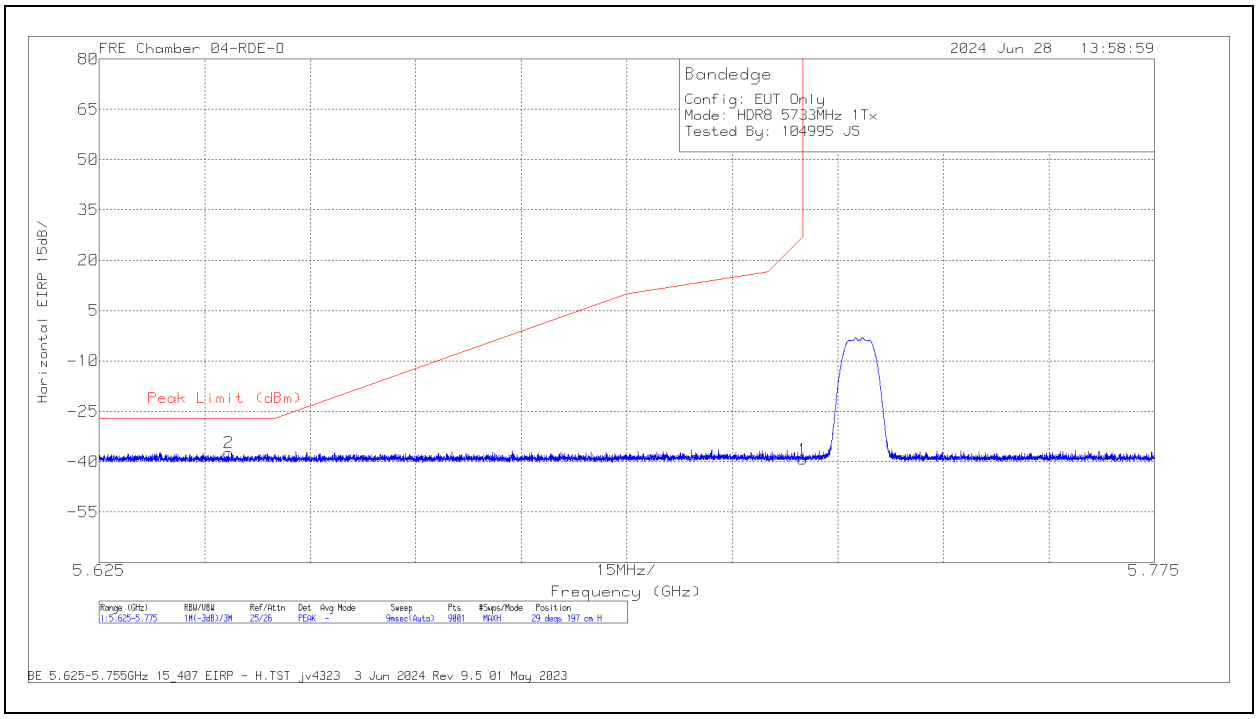
## 10.1.23. HDR 8 LOW POWER, UNII-3 BAND, BANDEDGE

## ANT 6, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.643384 | -49.95 | Pk | 35.1 | 11.8 | -34.26 | -37.31 | -27 | -10.31 | 29 | 197 | H |
| 1 | 5.725 | -52.19 | Pk | 35.2 | 11.8 | -34.1 | -39.29 | 27 | -66.29 | 29 | 197 | H |

Pk - Peak detector



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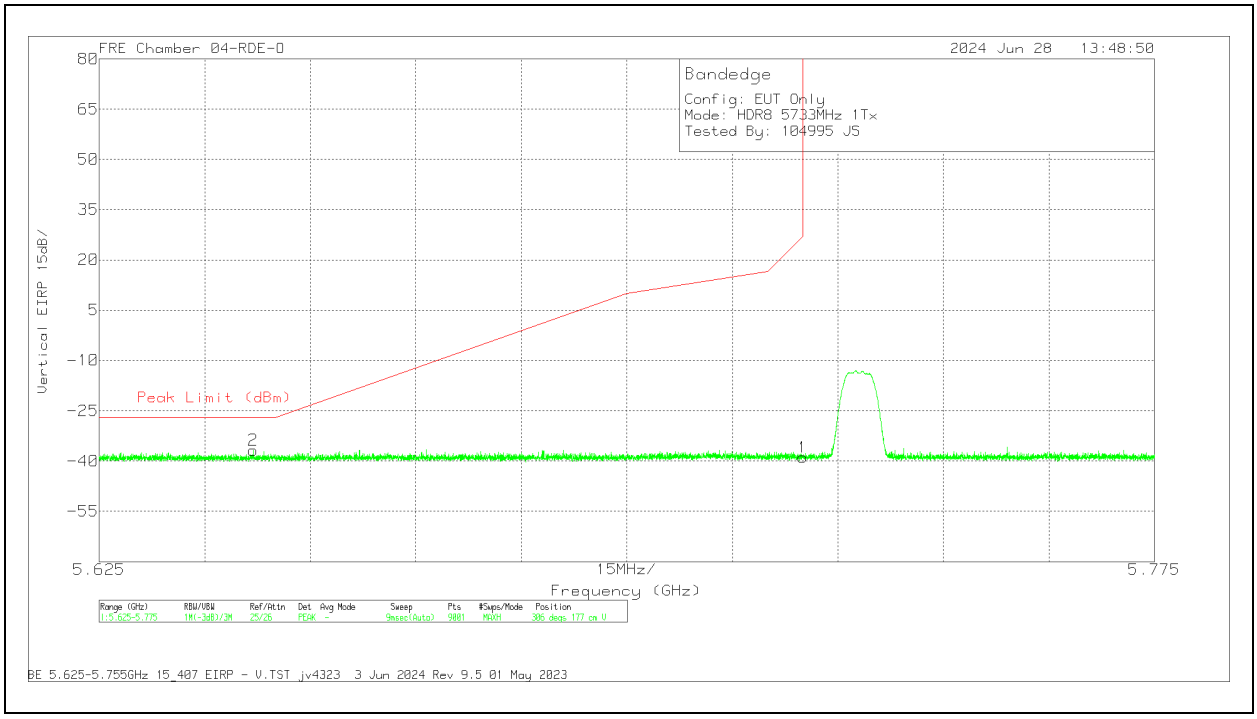
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.6469 | -49.59 | Pk | 35.1 | 11.8 | -34.02 | -36.71 | -27 | -9.71 | 306 | 177 | V |
| 1 | 5.725 | -51.81 | Pk | 35.2 | 11.8 | -34.1 | -38.91 | 27 | -65.91 | 306 | 177 | V |

Pk - Peak detector



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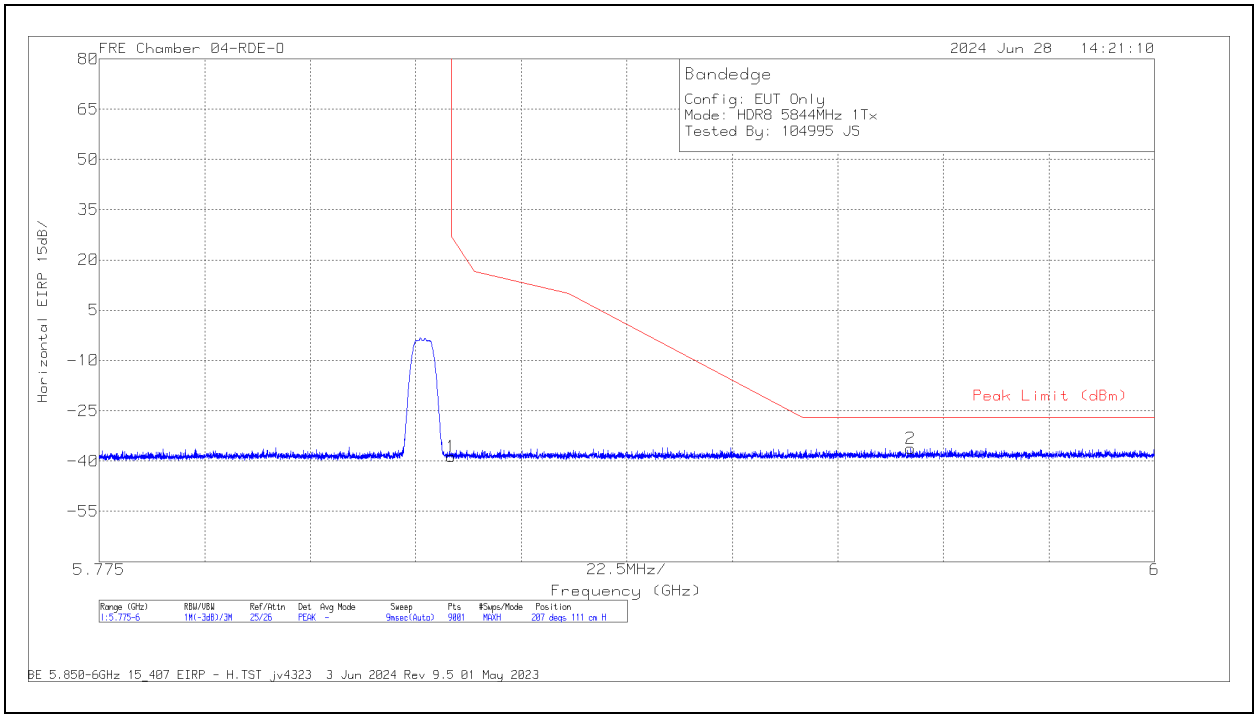
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.05 | Pk | 35.4 | 11.8 | -33.8 | -38.65 | 27 | -65.65 | 207 | 111 | H |
| 2 | 5.948 | -49.93 | Pk | 35.6 | 11.8 | -33.6 | -36.13 | -27 | -9.13 | 207 | 111 | H |

Pk - Peak detector



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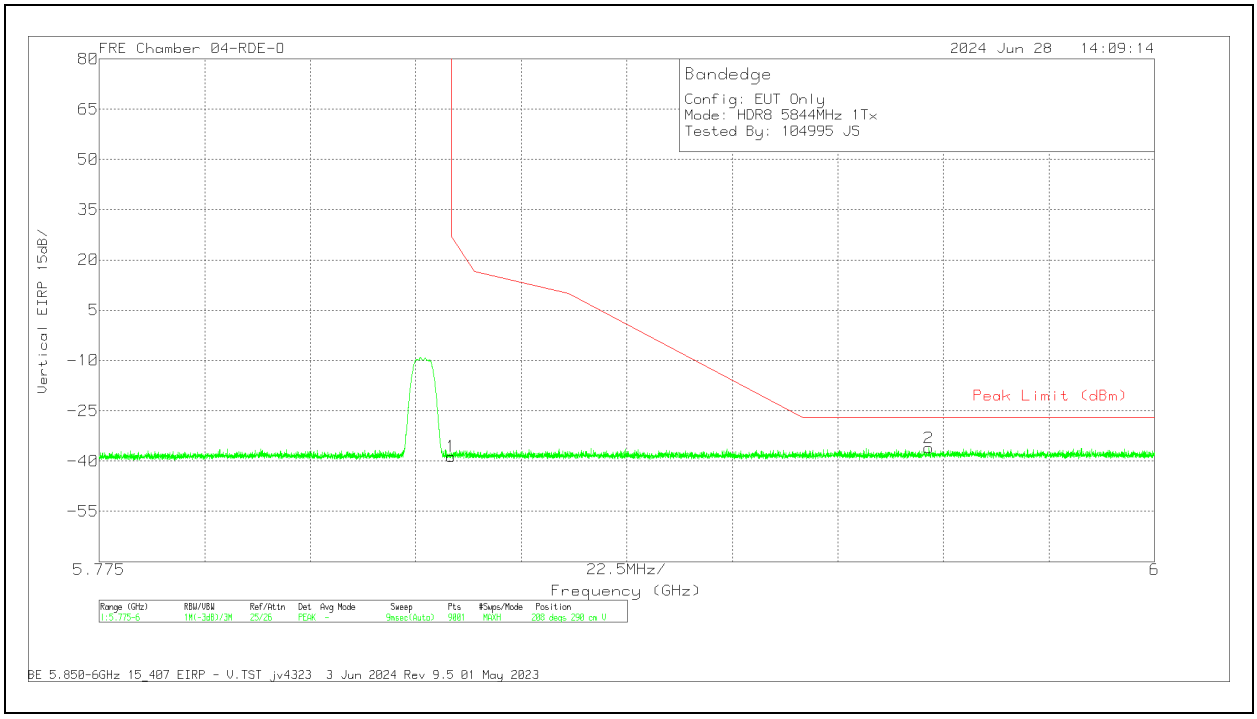
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.03 | Pk | 35.4 | 11.8 | -33.8 | -38.63 | 27 | -65.63 | 208 | 290 | V |
| 2 | 5.951925 | -49.91 | Pk | 35.6 | 11.8 | -33.6 | -36.11 | -27 | -9.11 | 208 | 290 | V |

Pk - Peak detector



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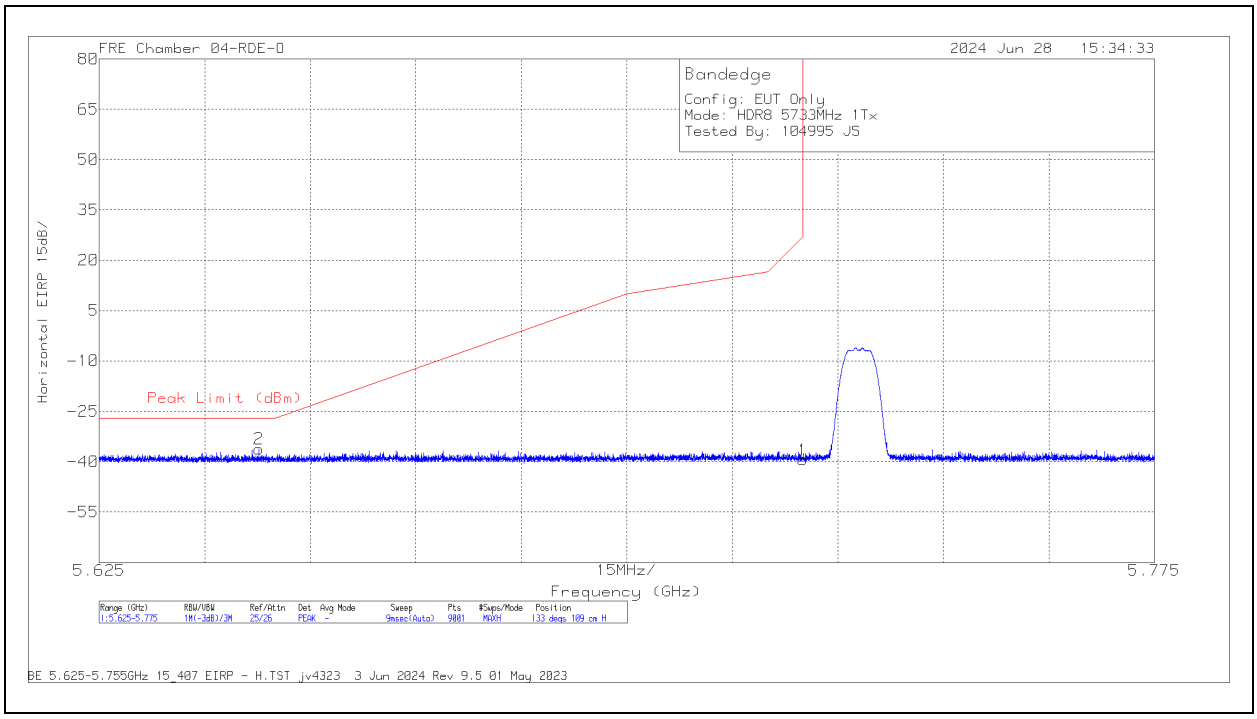
## ANT 5, SISO MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.6477 | -48.96 | Pk | 35.1 | 11.8 | -34.07 | -36.13 | -27 | -9.13 | 133 | 109 | H |
| 1 | 5.725 | -52.37 | Pk | 35.2 | 11.8 | -34.1 | -39.47 | 27 | -66.47 | 133 | 109 | H |

Pk - Peak detector



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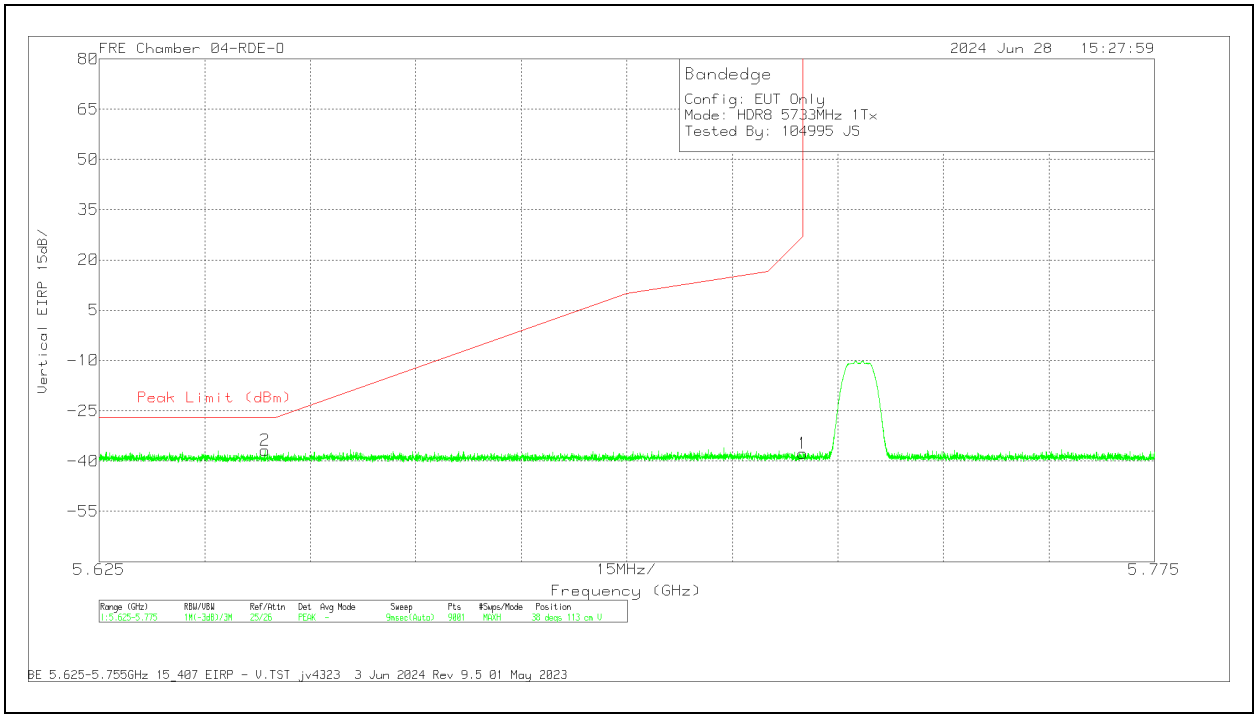
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.6486 | -49.52 | Pk | 35.1 | 11.8 | -34.16 | -36.78 | -27 | -9.78 | 38 | 113 | V |
| 1 | 5.725 | -50.66 | Pk | 35.2 | 11.8 | -34.1 | -37.76 | 27 | -64.76 | 38 | 113 | V |

Pk - Peak detector



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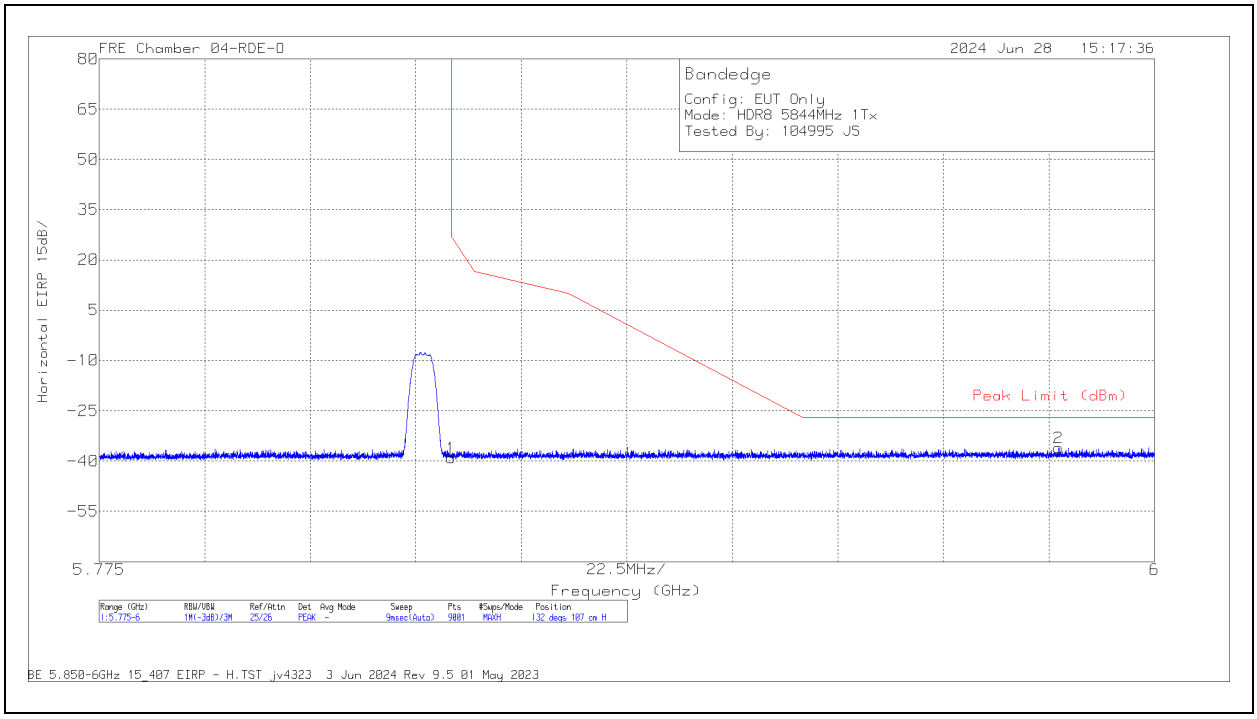
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.51 | Pk | 35.4 | 11.8 | -33.8 | -39.11 | 27 | -66.11 | 132 | 107 | H |
| 2 | 5.9796 | -49.84 | Pk | 35.6 | 11.8 | -33.66 | -36.1 | -27 | -9.1 | 132 | 107 | H |

Pk - Peak detector



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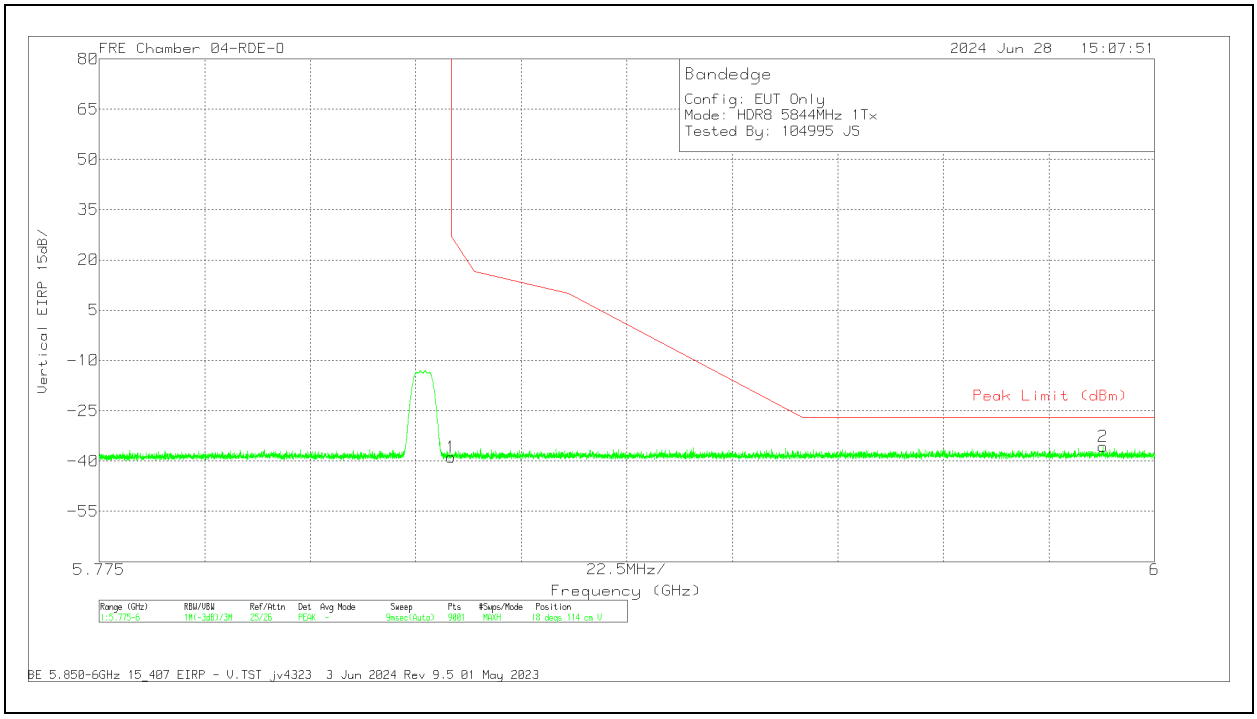
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.16 | Pk | 35.4 | 11.8 | -33.8 | -38.76 | 27 | -65.76 | 18 | 114 | V |
| 2 | 5.989 | -49.6 | Pk | 35.6 | 11.8 | -33.5 | -35.7 | -27 | -8.7 | 18 | 114 | V |

Pk - Peak detector



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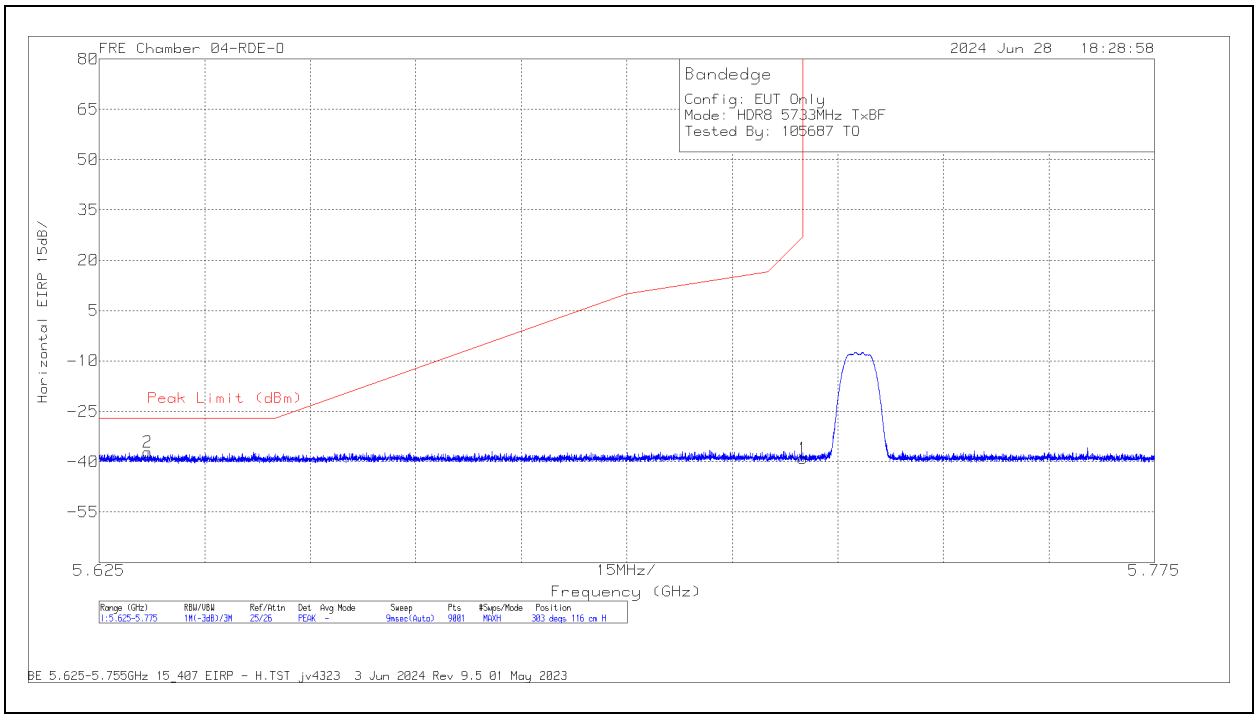
## ANT 6 + ANT 5, MIMO TXBF MODE

### LOW CHANNEL, 5733 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.631883 | -49.79 | Pk | 35.1 | 11.8 | -34.19 | -37.08 | -27 | -10.08 | 303 | 116 | H |
| 1 | 5.725 | -51.87 | Pk | 35.2 | 11.8 | -34.1 | -38.97 | 27 | -65.97 | 303 | 116 | H |

Pk - Peak detector



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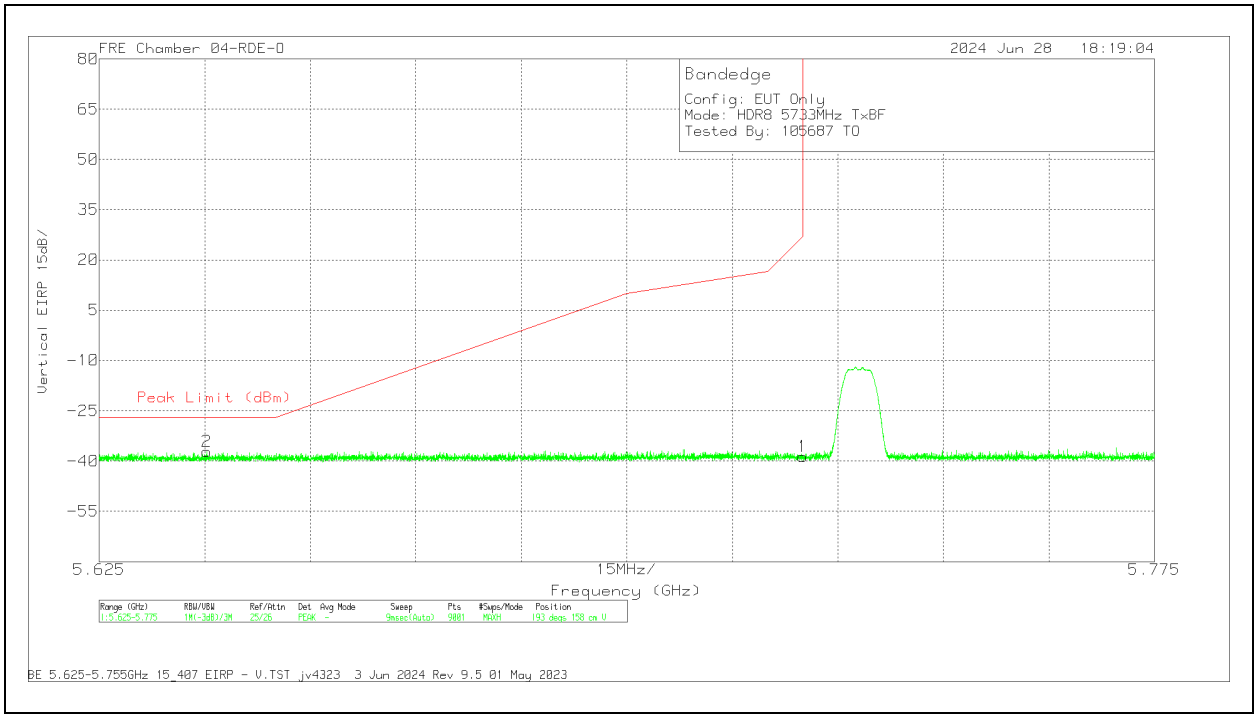
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 5.640284 | -49.79 | Pk | 35.1 | 11.8 | -34.2 | -37.09 | -27 | -10.09 | 193 | 158 | V |
| 1 | 5.725 | -51.57 | Pk | 35.2 | 11.8 | -34.1 | -38.67 | 27 | -65.67 | 193 | 158 | V |

Pk - Peak detector



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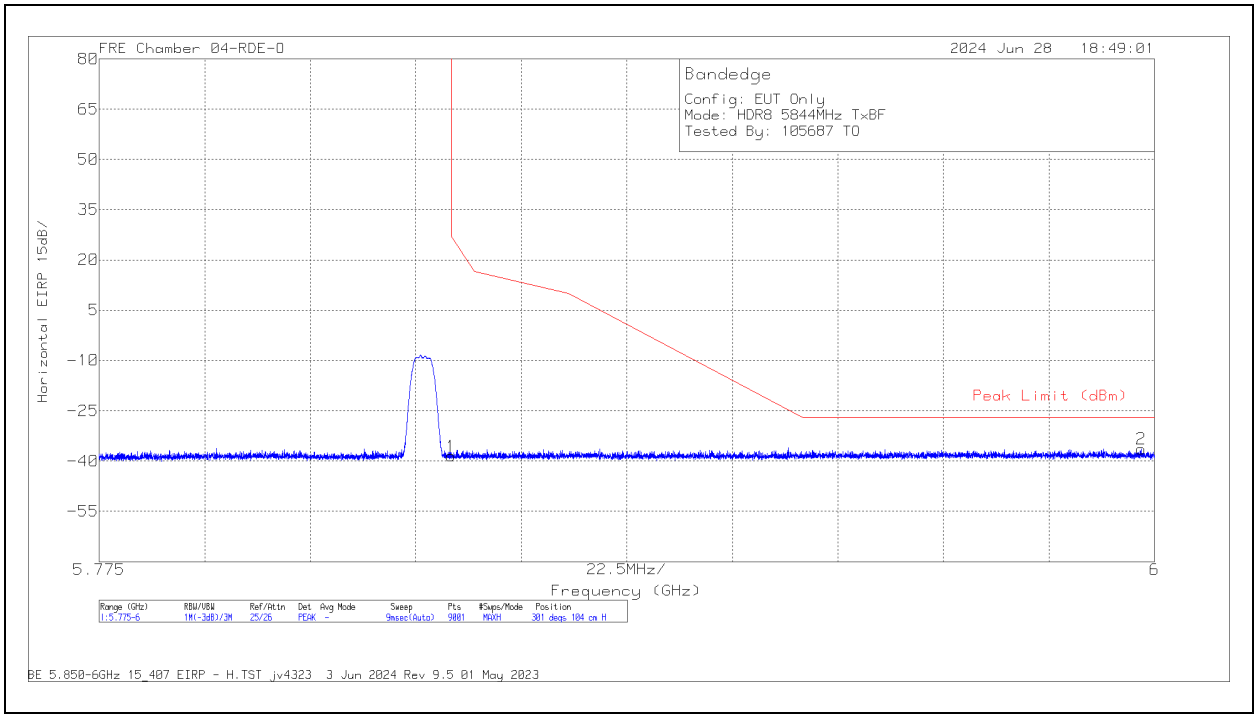
## HIGH CHANNEL, 5844 MHz

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -51.95 | Pk | 35.4 | 11.8 | -33.8 | -38.55 | 27 | -65.55 | 301 | 104 | H |
| 2 | 5.9972 | -50.11 | Pk | 35.6 | 11.8 | -33.62 | -36.33 | -27 | -9.33 | 301 | 104 | H |

Pk - Peak detector



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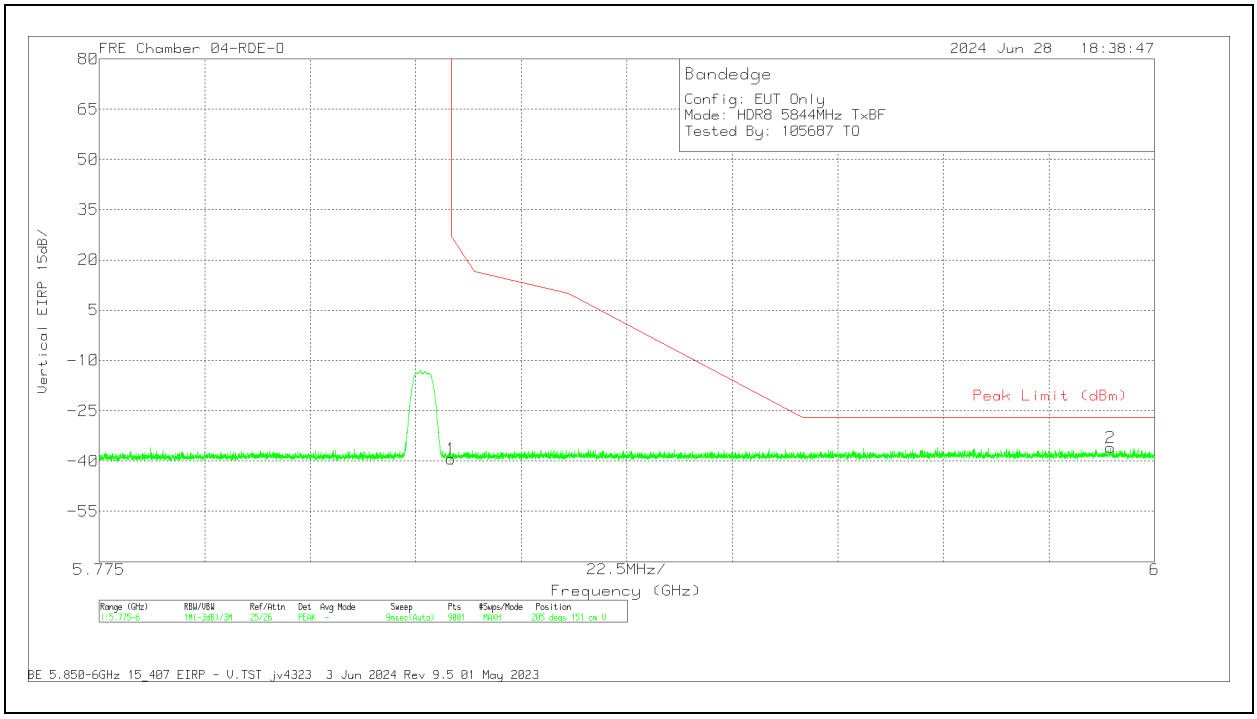
## VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 80402 ACF (dB/m) | Conversion Factor (dB) | Gain/Loss (dB) | Corrected Reading EIRP (dBm) | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -52.75 | Pk | 35.4 | 11.8 | -33.8 | -39.35 | 27 | -66.35 | 205 | 151 | V |
| 2 | 5.9906 | -49.84 | Pk | 35.6 | 11.8 | -33.5 | -35.94 | -27 | -8.94 | 205 | 151 | V |

Pk - Peak detector



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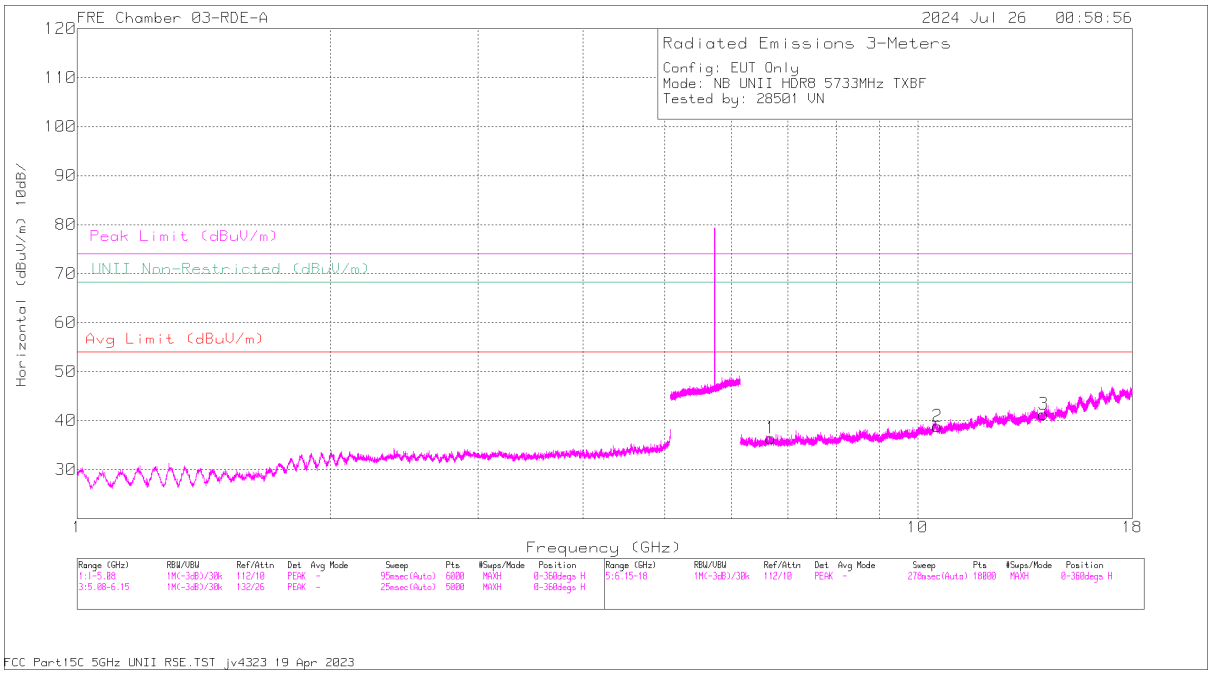
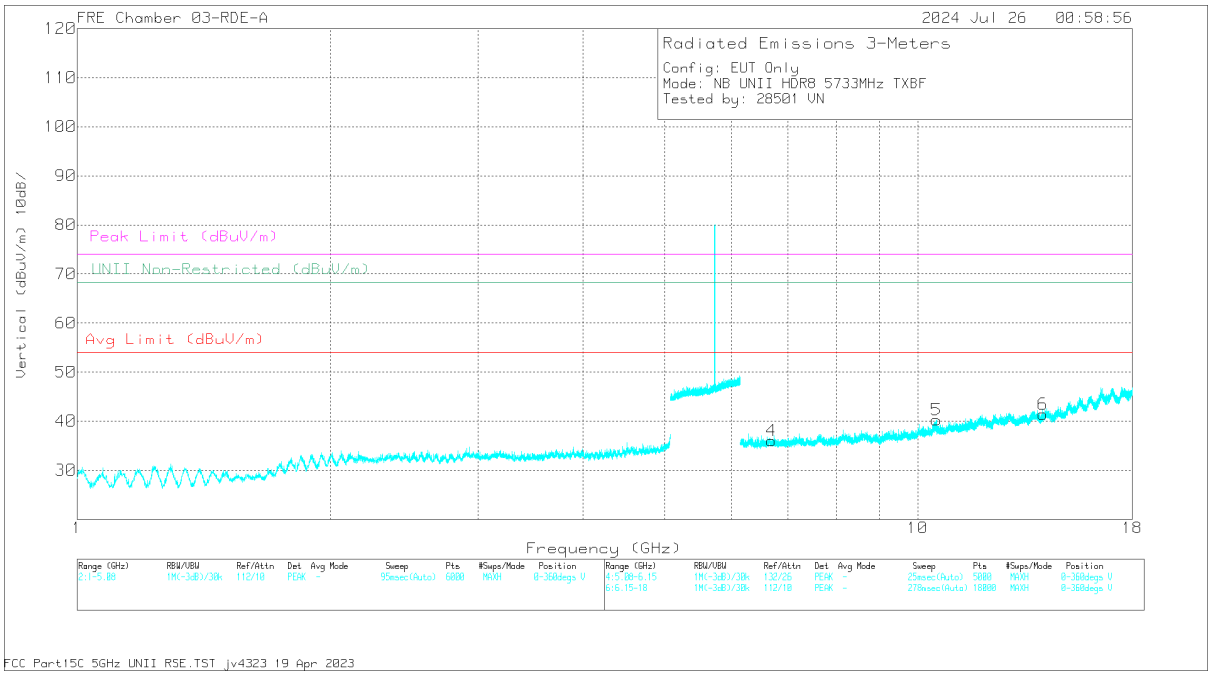
## 10.1.24. HDR 8 LOW POWER, UNII-3 BAND, HARMONIC AND SPURIOUS

### LOW CHANNEL, 5733 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.686072 | 56.04 | PK-U | 35.8 | -45.7 | 46.14 | 68.2 | -22.06 | 360 | 101 | H |
| 4 | 6.698055 | 56.56 | PK-U | 35.8 | -45.71 | 46.65 | 68.2 | -21.55 | 360 | 101 | V |
| 5 | 10.509439 | 56.22 | PK-U | 37.6 | -45.1 | 48.72 | 68.2 | -19.48 | 297 | 110 | V |
| 2 | 10.557383 | 56.43 | PK-U | 37.6 | -45.42 | 48.61 | 68.2 | -19.59 | 360 | 200 | H |
| 6 | 14.086697 | 56.2 | PK-U | 39 | -44.37 | 50.83 | 68.2 | -17.37 | 360 | 200 | V |
| 3 | 14.127215 | 55.75 | PK-U | 39 | -44.3 | 50.45 | 68.2 | -17.75 | 360 | 200 | H |

PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average


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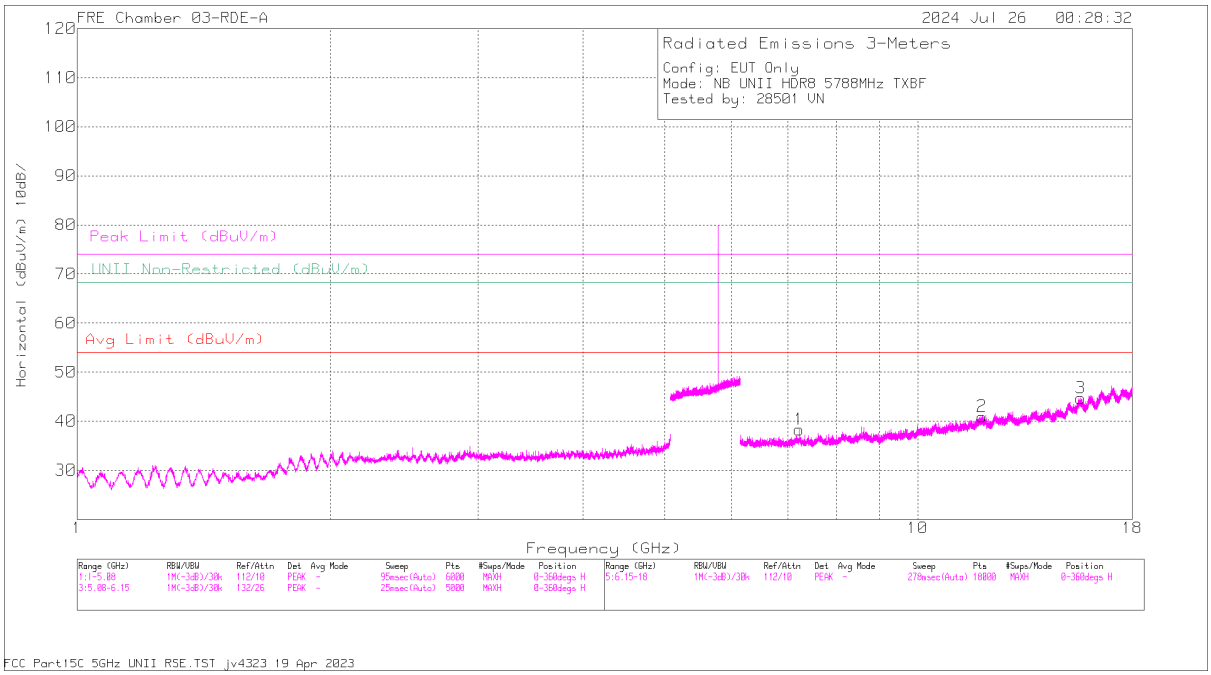
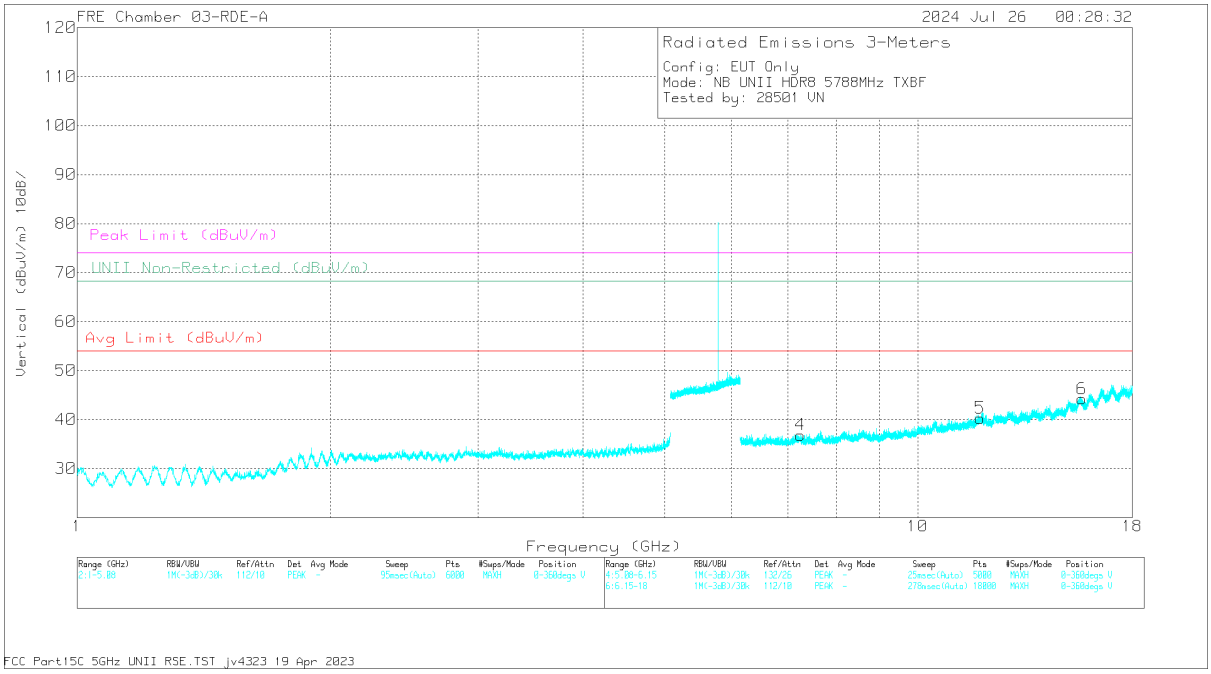
## MID CHANNEL, 5788 MHz




**HORIZONTAL**

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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 11.9283 | 55.12 | PK-U | 38.7 | -43.5 | 50.32 | - | - | 74 | -23.68 | - | - | 360 | 101 | H |
| | * 11.9305 | 42.94 | ADR | 38.7 | -43.4 | 38.24 | 54 | -15.76 | - | - | - | - | 360 | 101 | H |
| 3 | * 15.6228 | 54.07 | PK-U | 40.5 | -41.7 | 52.87 | - | - | 74 | -21.13 | - | - | 360 | 101 | H |
| | * 15.6214 | 42.41 | ADR | 40.5 | -41.7 | 41.21 | 54 | -12.79 | - | - | - | - | 360 | 101 | H |
| 5 | * 11.8622 | 55.48 | PK-U | 38.6 | -44 | 50.08 | - | - | 74 | -23.92 | - | - | 360 | 199 | V |
| | * 11.8623 | 43.26 | ADR | 38.6 | -44 | 37.86 | 54 | -16.14 | - | - | - | - | 360 | 199 | V |
| 6 | * 15.6825 | 54.5 | PK-U | 40.6 | -42.5 | 52.6 | - | - | 74 | -21.4 | - | - | 360 | 101 | V |
| | * 15.6809 | 42.68 | ADR | 40.6 | -42.5 | 40.78 | 54 | -13.22 | - | - | - | - | 360 | 101 | V |
| 1 | 7.226302 | 56.26 | PK-U | 35.8 | -45.43 | 46.63 | - | - | - | - | 68.2 | -21.57 | 10 | 311 | H |
| 4 | 7.24878 | 56.49 | PK-U | 35.8 | -45.8 | 46.49 | - | - | - | - | 68.2 | -21.71 | 360 | 199 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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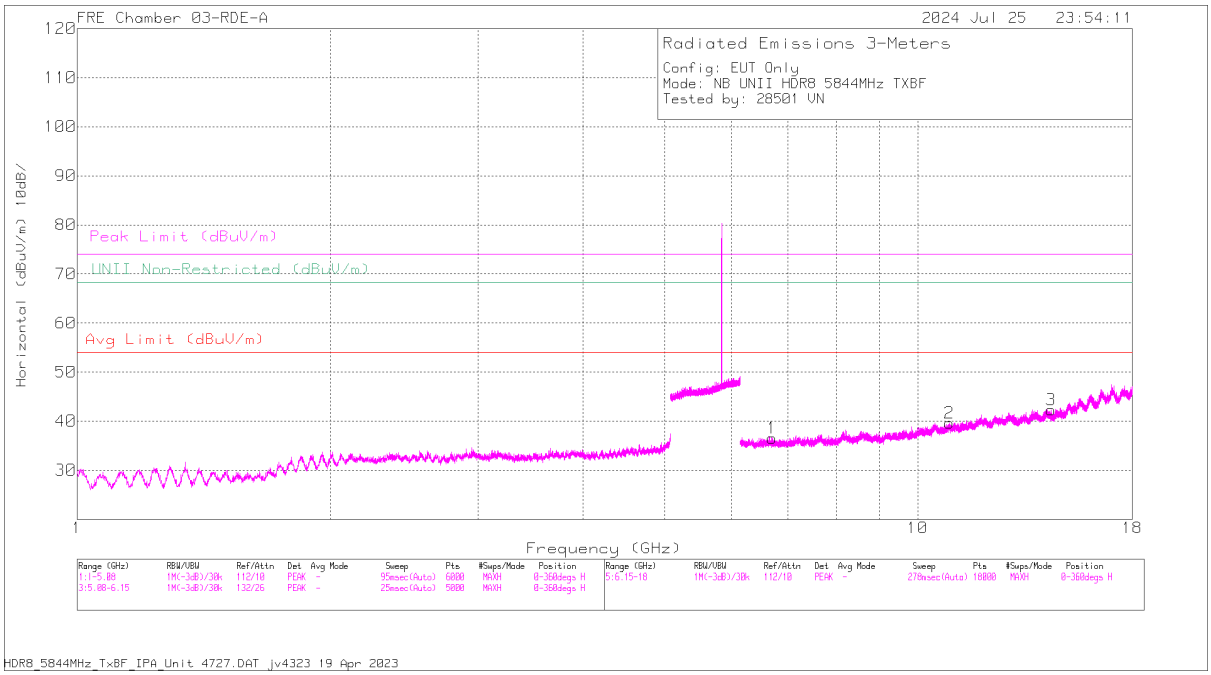
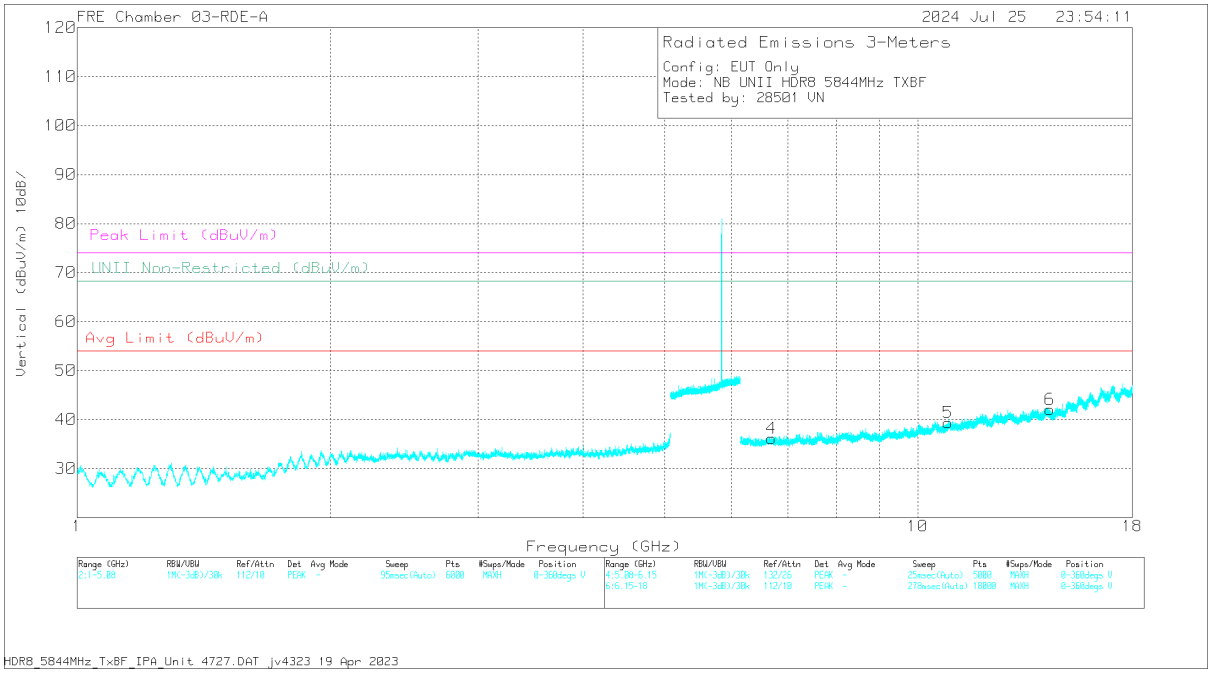
## HIGH CHANNEL, 5844 MHz




**HORIZONTAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | Gain/Loss (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 10.9047 | 55.75 | PK-U | 37.8 | -44.7 | 48.85 | - | - | 74 | -25.15 | - | - | 360 | 101 | H |
| | * 10.9044 | 44.09 | ADR | 37.8 | -44.7 | 37.19 | 54 | -16.81 | - | - | - | - | 360 | 101 | H |
| 5 | * 10.8722 | 56.17 | PK-U | 37.8 | -45.2 | 48.77 | - | - | 74 | -25.23 | - | - | 360 | 199 | V |
| | * 10.8754 | 44.24 | ADR | 37.8 | -45.22 | 36.82 | 54 | -17.18 | - | - | - | - | 360 | 199 | V |
| 4 | 6.698013 | 56.33 | PK-U | 35.8 | -45.7 | 46.43 | - | - | - | - | 68.2 | -21.77 | 360 | 199 | V |
| 1 | 6.711129 | 56.12 | PK-U | 35.8 | -45.7 | 46.22 | - | - | - | - | 68.2 | -21.98 | 360 | 200 | H |
| 6 | 14.364533 | 55.6 | PK-U | 39.2 | -43.4 | 51.4 | - | - | - | - | 68.2 | -16.8 | 360 | 199 | V |
| 3 | 14.415168 | 56 | PK-U | 39.2 | -43.92 | 51.28 | - | - | - | - | 68.2 | -16.92 | 360 | 199 | H |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average


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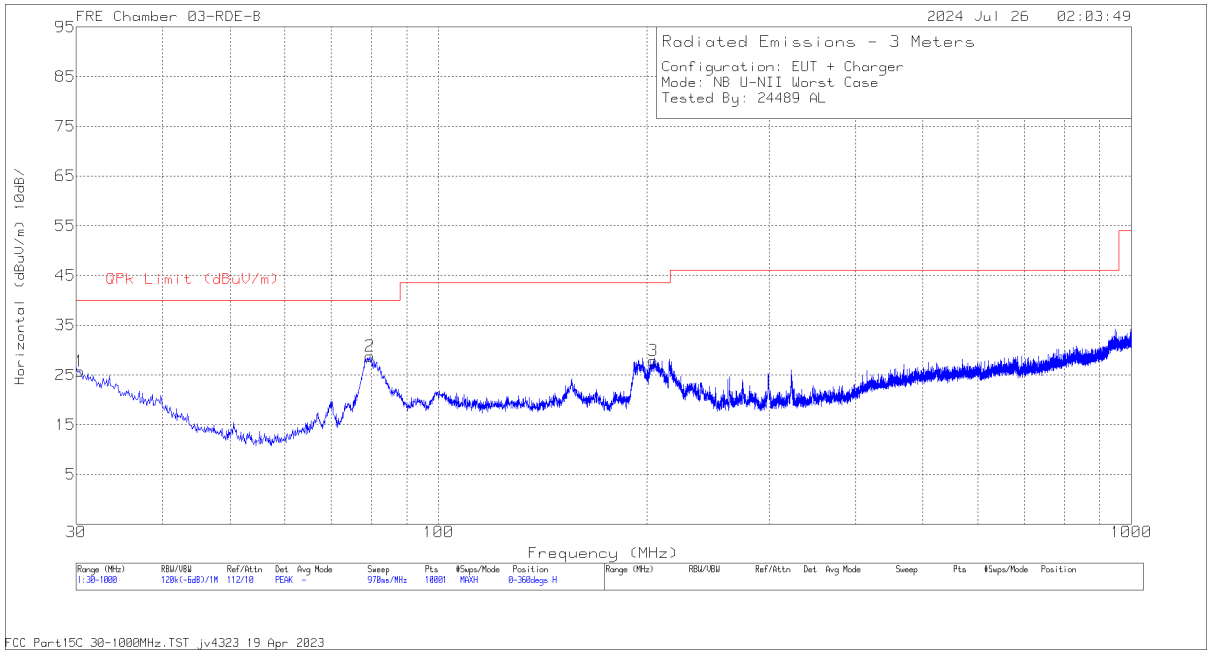
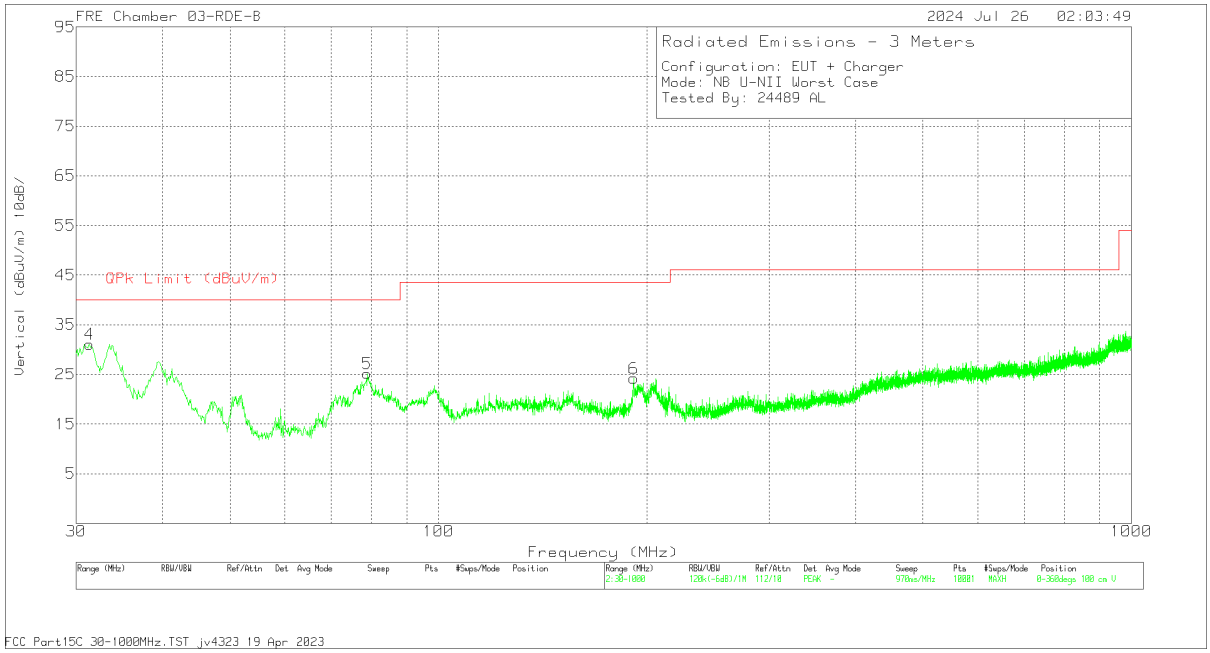
## 10.2. WORST-CASE 30-1000 MHz

**SPURIOUS EMISSIONS 30-1000 MHz (WORST-CASE CONFIGURATION)**




**HORIZONTAL**




**VERTICAL**



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## 30 – 1000 MHz DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 204045 ACF (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30.388 | 30.42 | Pk | 26.8 | -31.5 | 25.72 | 40 | -14.28 | 0-360 | 399 | H |
| 4 | 31.358 | 36.79 | Pk | 25.9 | -31.6 | 31.09 | 40 | -8.91 | 0-360 | 100 | V |
| | 31.41 | 33.78 | Qp | 25.9 | -31.6 | 28.08 | 40 | -11.92 | 272 | 111 | V |
| 5 | 78.888 | 42.38 | Pk | 13.6 | -30.8 | 25.18 | 40 | -14.82 | 0-360 | 199 | V |
| 2 | 79.567 | 46.17 | Pk | 13.5 | -30.9 | 28.77 | 40 | -11.23 | 0-360 | 299 | H |
| 6 | 191.311 | 36.88 | Pk | 17.5 | -30.2 | 24.18 | 43.52 | -19.34 | 0-360 | 100 | V |
| 3 | 203.921 | 40.64 | Pk | 17.4 | -30.1 | 27.94 | 43.52 | -15.58 | 0-360 | 101 | H |

Pk - Peak detector
Qp - Quasi-Peak detector


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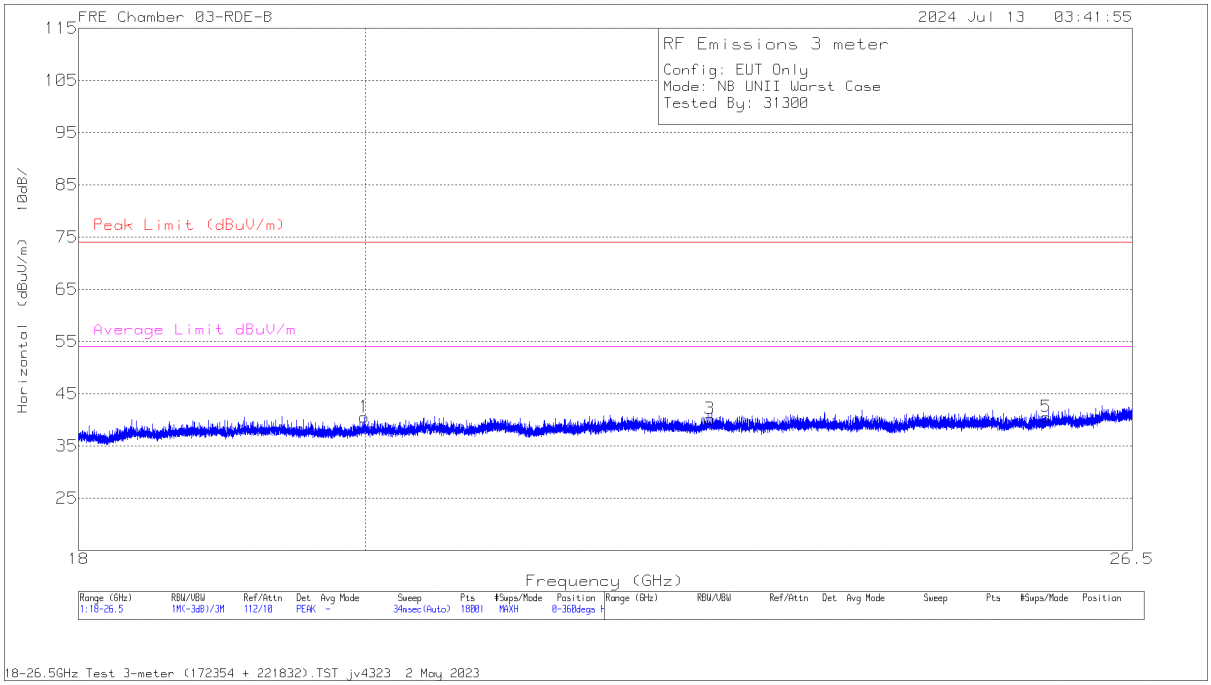
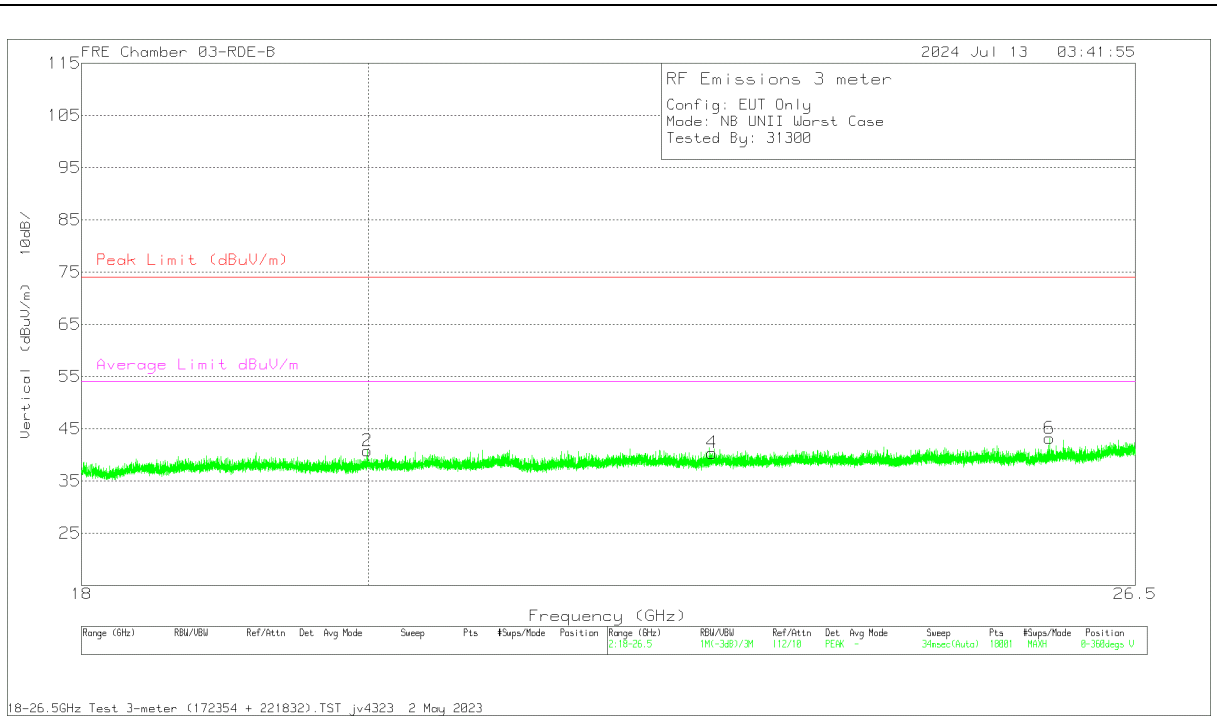
## 10.3. WORST-CASE 18-26 GHz

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




**HORIZONTAL**

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## 18 – 26 GHz DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 172354 AFC (dB/m) | 18-26GHz Amp | CBL | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Average Limit dBuV/m | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 19.990883 | 56.43 | PK-U | 32.6 | -62.4 | 14 | 40.63 | 74 | -33.37 | - | - | 19 | 106 | H |
| | * 19.989695 | 44.56 | ADR | 32.6 | -62.4 | 14 | 28.76 | - | - | 54 | -25.24 | 19 | 106 | H |
| 3 | * 22.693807 | 55.06 | PK-U | 33.1 | -62 | 15 | 41.16 | 74 | -32.84 | - | - | 71 | 132 | H |
| | * 22.693144 | 43.4 | ADR | 33.1 | -62 | 15 | 29.5 | - | - | 54 | -24.5 | 71 | 132 | H |
| 2 | * 19.9899 | 56.24 | PK-U | 32.6 | -62.4 | 14 | 40.44 | 74 | -33.56 | - | - | 103 | 117 | V |
| | * 19.989507 | 44.77 | ADR | 32.6 | -62.4 | 14 | 28.97 | - | - | 54 | -25.03 | 103 | 117 | V |
| 4 | * 22.686785 | 54.92 | PK-U | 33.1 | -62 | 15 | 41.02 | 74 | -32.98 | - | - | 43 | 155 | V |
| | * 22.688178 | 43.52 | ADR | 33.1 | -62 | 15 | 29.62 | - | - | 54 | -24.38 | 43 | 155 | V |
| 5 | 25.674634 | 53.39 | PK-U | 33.8 | -61.3 | 16 | 41.89 | 74 | -32.11 | - | - | 52 | 178 | H |
| | 25.675378 | 42.08 | ADR | 33.8 | -61.3 | 16 | 30.58 | - | - | 54 | -23.42 | 52 | 178 | H |
| 6 | 25.67761 | 54 | PK-U | 33.8 | -61.3 | 16 | 42.5 | 74 | -31.5 | - | - | 99 | 188 | V |
| | 25.678018 | 42.05 | ADR | 33.8 | -61.3 | 16 | 30.55 | - | - | 54 | -23.45 | 99 | 188 | V |

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average


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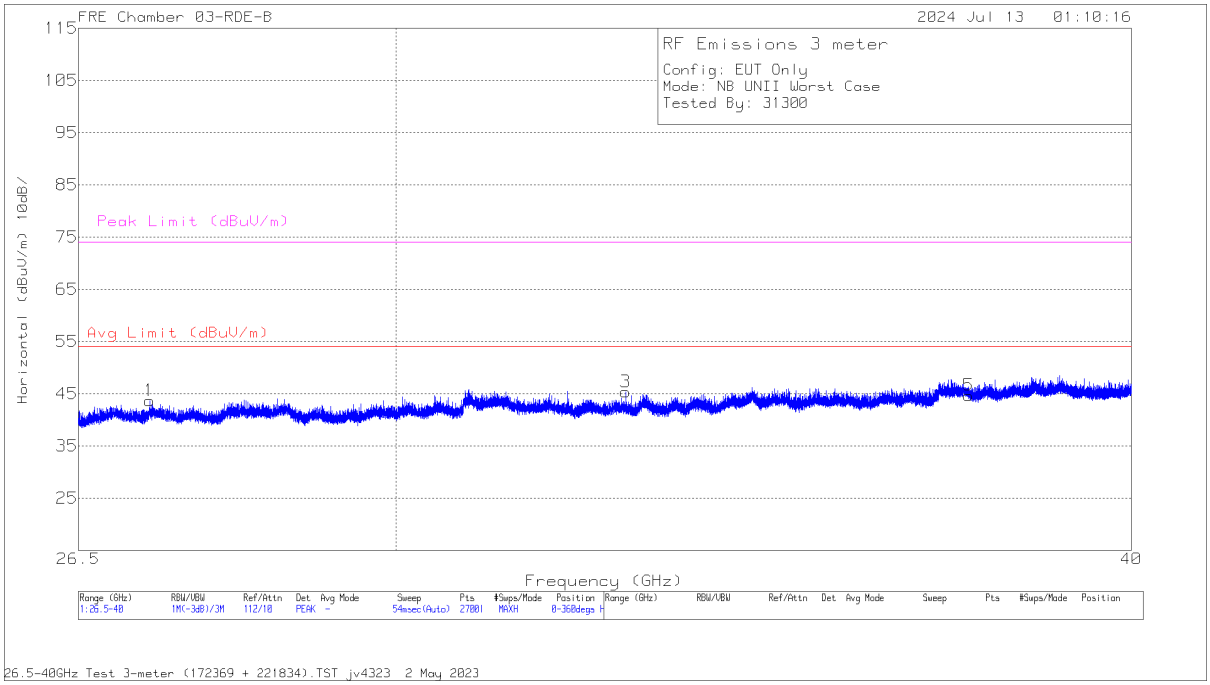
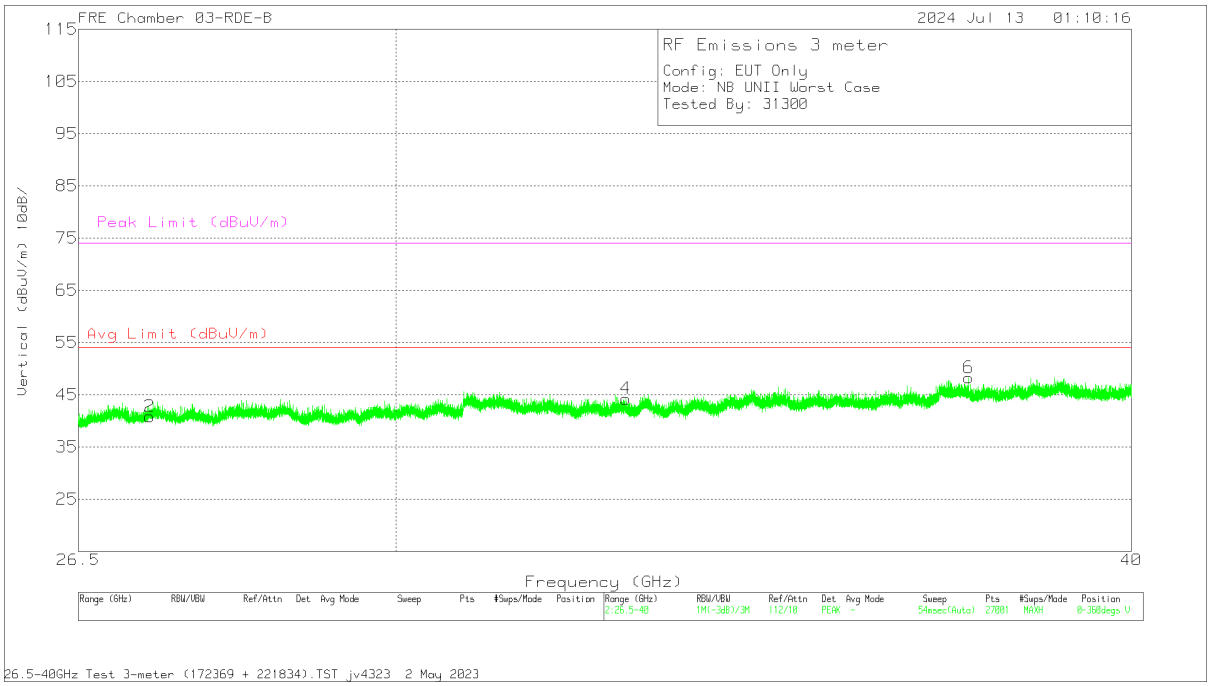
## 10.4. WORST-CASE 26-40 GHz

**SPURIOUS EMISSIONS 26-40 GHz (WORST-CASE CONFIGURATION)**




**HORIZONTAL**




**VERTICAL**



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## 26 – 40 GHz DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 172369 AFC (dB/m) | 221834 Amp/Cbl (dB) | CBL | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 27.247609 | 54.93 | PK-U | 35.7 | -62.9 | 16.5 | 44.23 | - | - | 74 | -29.77 | 344 | 163 | V |
| | 27.246458 | 43.27 | ADR | 35.7 | -62.9 | 16.5 | 32.57 | 54 | -21.43 | - | - | 344 | 163 | V |
| 1 | 27.247866 | 55.45 | PK-U | 35.7 | -62.9 | 16.5 | 44.75 | - | - | 74 | -29.25 | 118 | 190 | H |
| | 27.247505 | 43.41 | ADR | 35.7 | -62.9 | 16.5 | 32.71 | 54 | -21.29 | - | - | 118 | 190 | H |
| 3 | 32.819343 | 52.48 | PK-U | 36.8 | -62 | 18.6 | 45.88 | - | - | 74 | -28.12 | 98 | 235 | H |
| | 32.821534 | 40.26 | ADR | 36.8 | -62 | 18.6 | 33.66 | 54 | -20.34 | - | - | 98 | 235 | H |
| 4 | 32.824174 | 51.67 | PK-U | 36.8 | -62 | 18.6 | 45.07 | - | - | 74 | -28.93 | 196 | 204 | V |
| | 32.822526 | 40.28 | ADR | 36.8 | -62 | 18.6 | 33.68 | 54 | -20.32 | - | - | 196 | 204 | V |
| 6 | 37.535034 | 53.97 | PK-U | 37.8 | -64.4 | 20.2 | 47.57 | - | - | 74 | -26.43 | 199 | 128 | V |
| | 37.535757 | 42.9 | ADR | 37.8 | -64.4 | 20.2 | 36.5 | 54 | -17.5 | - | - | 199 | 128 | V |
| 5 | 37.537161 | 54.5 | PK-U | 37.8 | -64.4 | 20.2 | 48.1 | - | - | 74 | -25.9 | 129 | 283 | H |
| | 37.538915 | 43.04 | ADR | 37.8 | -64.4 | 20.2 | 36.64 | 54 | -17.36 | - | - | 129 | 283 | H |

PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average



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# 11. AC POWERLINE CONDUCTED EMISSIONS

**LIMITS**

FCC §15.207 (a)

RSS-Gen 8.8

| Frequency of Emission (MHz) | Conducted Limit (dBμV) | |
|---|---|---|
| | 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**



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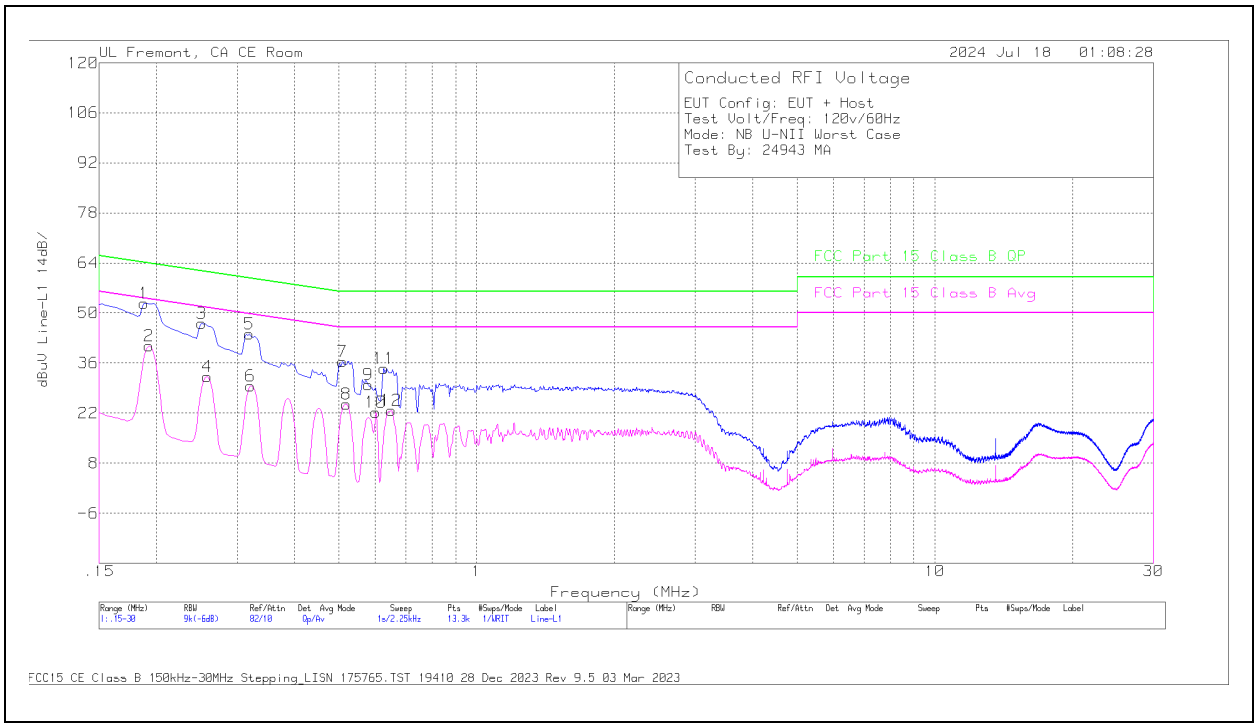
## 11.1. AC POWER LINE WITH LAPTOP

**LINE 1 RESULTS**




## DATA

| Range 1: Line-L1 .15 - 30MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | Cbl (dB) | Trns Limiter (dB) | Corrected Reading (dBuV) | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av Margin (dB) |
| | | | | | | | | | | | |
| 2 | .1928 | 31.15 | Av | .1 | .1 | 9.4 | 40.75 | - | - | 53.92 | -13.17 |
| 4 | .258 | 22.82 | Av | 0 | 0 | 9.4 | 32.22 | - | - | 51.5 | -19.28 |
| 6 | .321 | 20.1 | Av | 0 | .1 | 9.4 | 29.6 | - | - | 49.68 | -20.08 |
| 8 | .5201 | 15.21 | Av | 0 | 0 | 9.3 | 24.51 | - | - | 46 | -21.49 |
| 10 | .6023 | 12.76 | Av | 0 | 0 | 9.4 | 22.16 | - | - | 46 | -23.84 |
| 12 | .6518 | 13.19 | Av | 0 | .1 | 9.4 | 22.69 | - | - | 46 | -23.31 |
| 1 | .1883 | 43.12 | Qp | .1 | .1 | 9.4 | 52.72 | 64.11 | -11.39 | - | - |
| 3 | .2513 | 37.77 | Qp | 0 | 0 | 9.4 | 47.17 | 61.72 | -14.55 | - | - |
| 5 | .3188 | 34.61 | Qp | 0 | .1 | 9.4 | 44.11 | 59.74 | -15.63 | - | - |
| 7 | .51 | 27.12 | Qp | 0 | 0 | 9.3 | 36.42 | 56 | -19.58 | - | - |
| 9 | .5798 | 20.59 | Qp | 0 | 0 | 9.4 | 29.99 | 56 | -26.01 | - | - |
| 11 | .627 | 24.96 | Qp | 0 | .1 | 9.4 | 34.46 | 56 | -21.54 | - | - |

Qp - Quasi-Peak detector
Av - Average detection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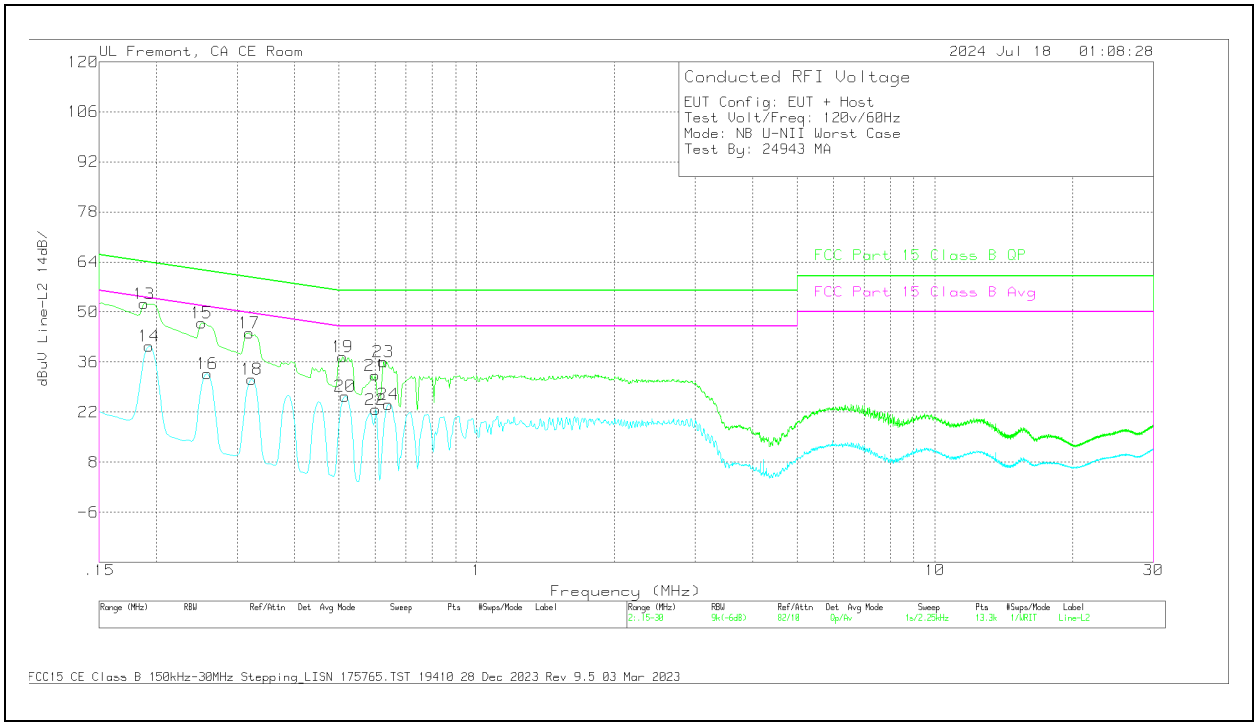
## LINE 2 RESULTS




## DATA

| Range 2: Line-L2 .15 - 30MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | Cbl (dB) | Trns Limiter (dB) | Corrected Reading (dBuV) | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av Margin (dB) |
| | | | | | | | | | | | |
| 14 | .1928 | 30.96 | Av | 0 | .1 | 9.4 | 40.46 | - | - | 53.92 | -13.46 |
| 16 | .258 | 23.39 | Av | 0 | 0 | 9.4 | 32.79 | - | - | 51.5 | -18.71 |
| 18 | .3233 | 21.6 | Av | 0 | .1 | 9.4 | 31.1 | - | - | 49.62 | -18.52 |
| 20 | .5168 | 17.06 | Av | 0 | 0 | 9.3 | 26.36 | - | - | 46 | -19.64 |
| 22 | .6023 | 13.17 | Av | 0 | .1 | 9.4 | 22.67 | - | - | 46 | -23.33 |
| 24 | .6416 | 14.62 | Av | 0 | .1 | 9.4 | 24.12 | - | - | 46 | -21.88 |
| 13 | .1883 | 42.78 | Qp | 0 | .1 | 9.4 | 52.28 | 64.11 | -11.83 | - | - |
| 15 | .2513 | 37.55 | Qp | 0 | 0 | 9.4 | 46.95 | 61.72 | -14.77 | - | - |
| 17 | .3188 | 34.66 | Qp | 0 | .1 | 9.4 | 44.16 | 59.74 | -15.58 | - | - |
| 19 | .51 | 28.15 | Qp | 0 | 0 | 9.3 | 37.45 | 56 | -18.55 | - | - |
| 21 | .6 | 22.79 | Qp | 0 | .1 | 9.4 | 32.29 | 56 | -23.71 | - | - |
| 23 | .6248 | 26.56 | Qp | 0 | .1 | 9.4 | 36.06 | 56 | -19.94 | - | - |

Qp - Quasi-Peak detector
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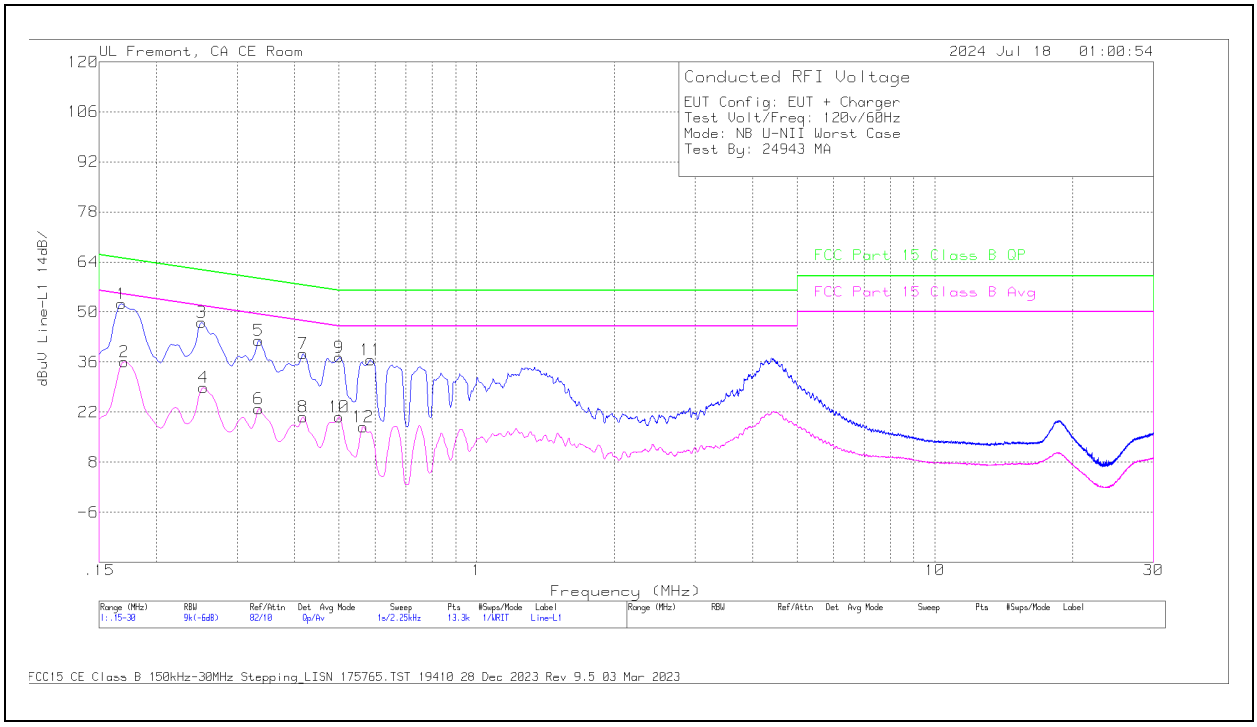
## 11.2. AC POWER LINE WITH AC/DC ADAPTER

**LINE 1 RESULTS**




## DATA

| Range 1: Line-L1 .15 - 30MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Marker** | **Frequency (MHz)** | **Meter Reading (dBuV)** | **Det** | **LISN (dB)** | **Cbl (dB)** | **Trns Limiter (dB)** | **Corrected Reading (dBuV)** | **FCC Part 15 Class B QP (dBuV)** | **QP Margin (dB)** | **FCC Part 15 Class B Avg (dBuV)** | **Av Margin (dB)** |
| | | | | | | | | | | | |
| 2 | .1703 | 26.54 | Av | .1 | 0 | 9.5 | 36.14 | - | - | 54.95 | -18.81 |
| 4 | .2535 | 19.48 | Av | 0 | 0 | 9.4 | 28.88 | - | - | 51.64 | -22.76 |
| 6 | .3345 | 13.5 | Av | 0 | 0 | 9.4 | 22.9 | - | - | 49.34 | -26.44 |
| 8 | .4178 | 11.27 | Av | 0 | 0 | 9.4 | 20.67 | - | - | 47.49 | -26.82 |
| 10 | .501 | 11.33 | Av | 0 | 0 | 9.3 | 20.63 | - | - | 46 | -25.37 |
| 12 | .5663 | 8.45 | Av | 0 | .1 | 9.3 | 17.85 | - | - | 46 | -28.15 |
| 1 | .168 | 42.68 | Qp | .1 | 0 | 9.5 | 52.28 | 65.06 | -12.78 | - | - |
| 3 | .2513 | 37.73 | Qp | 0 | 0 | 9.4 | 47.13 | 61.72 | -14.59 | - | - |
| 5 | .3345 | 32.65 | Qp | 0 | 0 | 9.4 | 42.05 | 59.34 | -17.29 | - | - |
| 7 | .4178 | 28.95 | Qp | 0 | 0 | 9.4 | 38.35 | 57.49 | -19.14 | - | - |
| 9 | .501 | 28.07 | Qp | 0 | 0 | 9.3 | 37.37 | 56 | -18.63 | - | - |
| 11 | .5865 | 27.13 | Qp | 0 | 0 | 9.4 | 36.53 | 56 | -19.47 | - | - |

Qp - Quasi-Peak detector
Av - Average detection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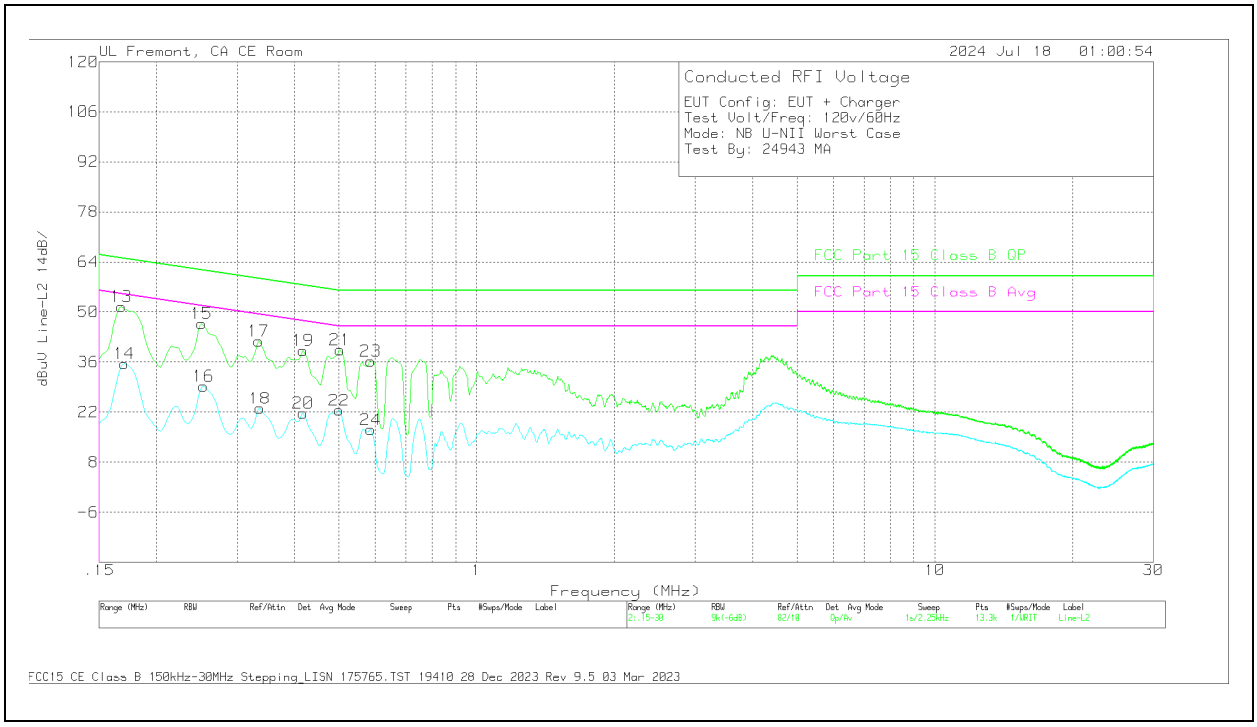
## LINE 2 RESULTS




## DATA

| Range 2: Line-L2 .15 - 30MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN (dB) | Cbl (dB) | Trns Limiter (dB) | Corrected Reading (dBuV) | FCC Part 15 Class B QP (dBuV) | QP Margin (dB) | FCC Part 15 Class B Avg (dBuV) | Av Margin (dB) |
| 14 | .1703 | 26.09 | Av | 0 | 0 | 9.5 | 35.59 | - | - | 54.95 | -19.36 |
| 16 | .2535 | 19.82 | Av | 0 | 0 | 9.4 | 29.22 | - | - | 51.64 | -22.42 |
| 18 | .3368 | 13.52 | Av | 0 | .1 | 9.4 | 23.02 | - | - | 49.28 | -26.26 |
| 20 | .4178 | 12.2 | Av | 0 | .1 | 9.4 | 21.7 | - | - | 47.49 | -25.79 |
| 22 | .501 | 13.19 | Av | 0 | 0 | 9.3 | 22.49 | - | - | 46 | -23.51 |
| 24 | .5865 | 7.56 | Av | 0 | .1 | 9.4 | 17.06 | - | - | 46 | -28.94 |
| 13 | .168 | 41.9 | Qp | .1 | 0 | 9.5 | 51.5 | 65.06 | -13.56 | - | - |
| 15 | .2513 | 37.39 | Qp | 0 | 0 | 9.4 | 46.79 | 61.72 | -14.93 | - | - |
| 17 | .3345 | 32.41 | Qp | 0 | .1 | 9.4 | 41.91 | 59.34 | -17.43 | - | - |
| 19 | .4178 | 29.75 | Qp | 0 | .1 | 9.4 | 39.25 | 57.49 | -18.24 | - | - |
| 21 | .5033 | 30.12 | Qp | 0 | 0 | 9.3 | 39.42 | 56 | -16.58 | - | - |
| 23 | .5865 | 26.74 | Qp | 0 | .1 | 9.4 | 36.24 | 56 | -19.76 | - | - |

Qp - Quasi-Peak detector
Av - Average detection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## 12. SETUP PHOTOS

Please refer to 14982489-EP1V1 for setup report.

# END OF TEST REPORT


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