

RESULTS

| | | | |
|------------|----------|--------------|--------|
| ID: | 45258 JL | Date: | 3/3/17 |
|------------|----------|--------------|--------|

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PPSD (dBi) |
|---------|--------------------|-----------------------------|---------------------------|---|--|
| Low | 5755 | 40.9 | 36.15 | 4.45 | 7.46 |
| High | 5795 | 40.8 | 36.14 | 4.45 | 7.46 |

Limits

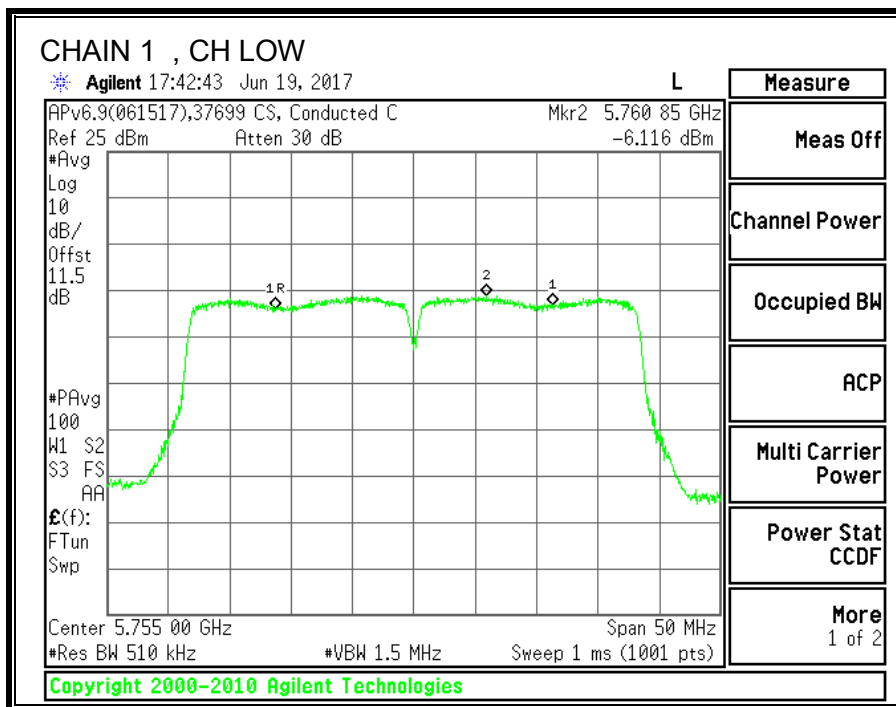
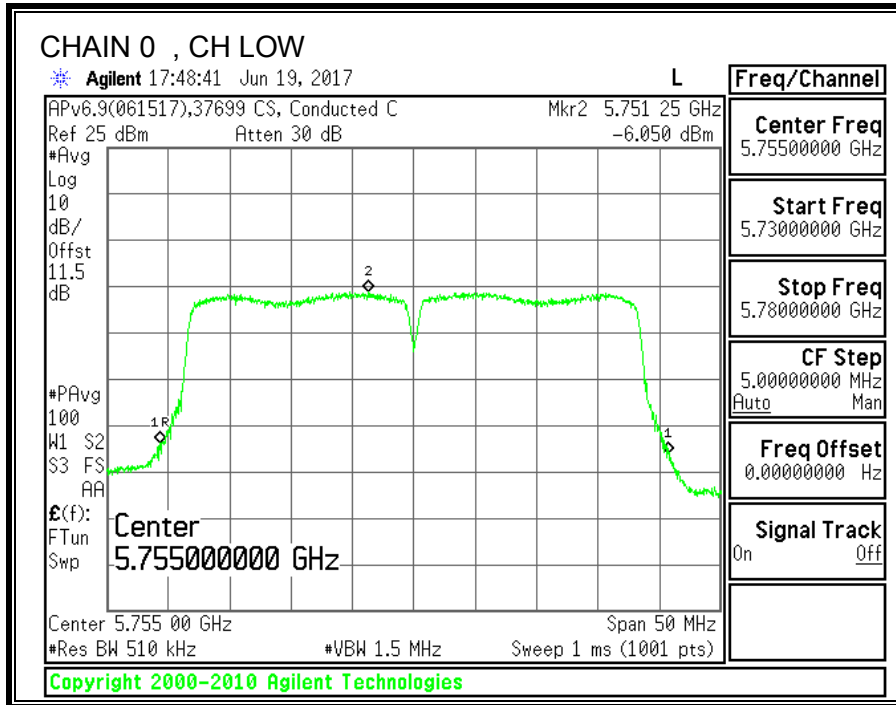
| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PPSD Limit (dBm) | IC PSD Limit (dBm) | PPSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|-------------------------------|-----------------------------|------------------------|
| Low | 5755 | 30.00 | 30.00 | 36.00 | 30.00 | 30.00 | 17.00 | 17.00 |
| High | 5795 | 30.00 | 30.00 | 36.00 | 30.00 | 30.00 | 17.00 | 17.00 |

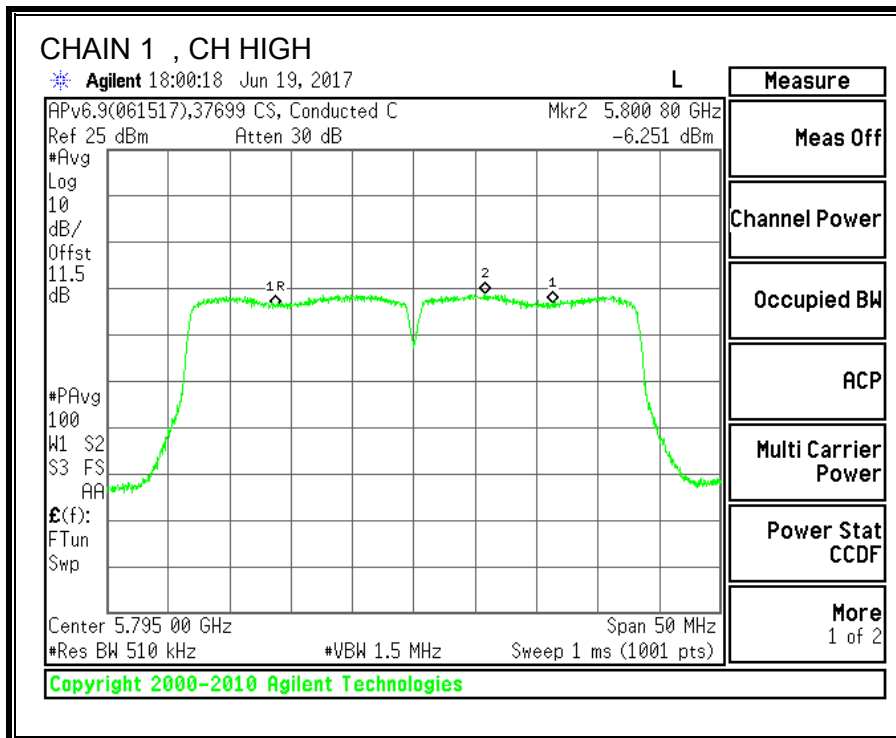
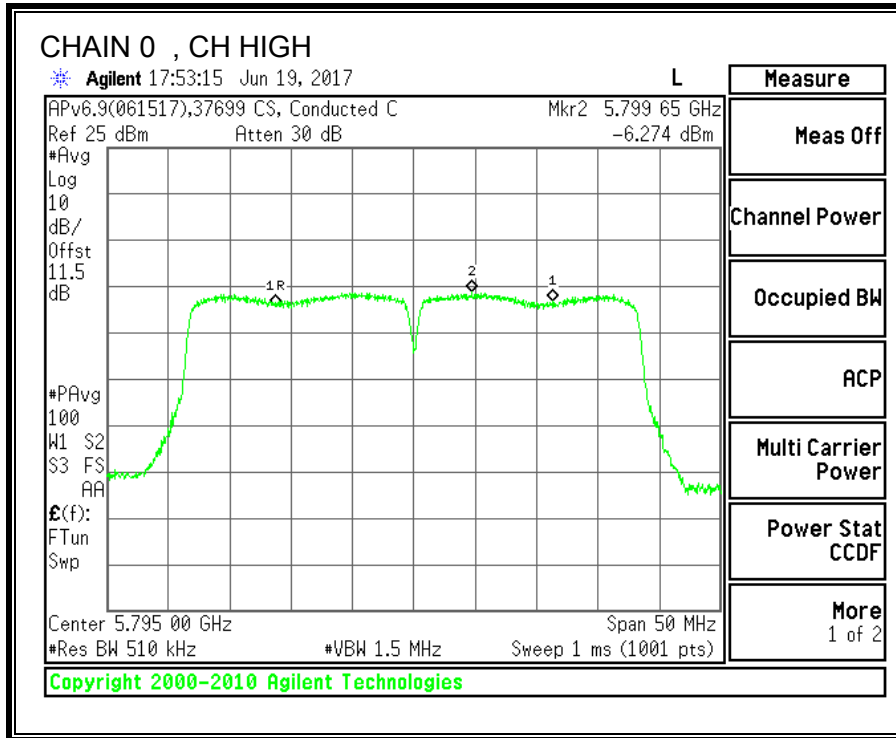
Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| Low | 5755 | 10.66 | 11.02 | 13.85 | 30.00 | -16.15 |
| High | 5795 | 10.31 | 10.95 | 13.65 | 30.00 | -16.35 |

PPSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PPSD (dBm) | Chain 1 Meas PPSD (dBm) | Total Corr'd PPSD (dBm) | PPSD Limit (dBm) | PPSD Margin (dB) |
|---------|--------------------|----------------------------------|----------------------------------|----------------------------------|------------------------|------------------------|
| Low | 5755 | -6.05 | -6.12 | -3.07 | 17.00 | -20.07 |
| High | 5795 | -6.27 | -6.25 | -3.25 | 17.00 | -20.25 |





9.16. 11ac HT80 2TX MODE IN THE 5.8GHz BAND

9.16.1. 6 dB BANDWIDTH

LIMITS

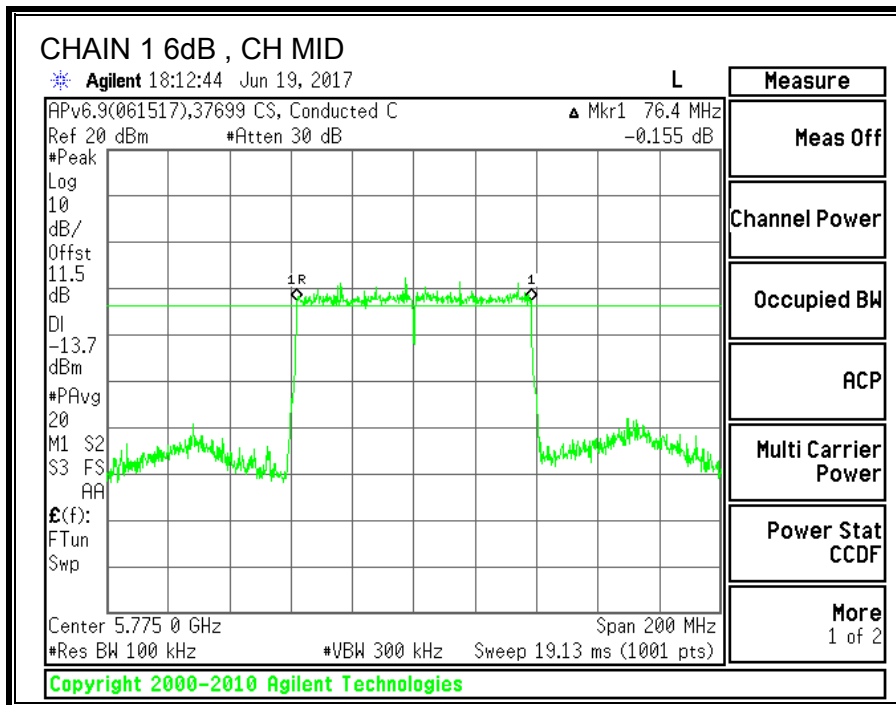
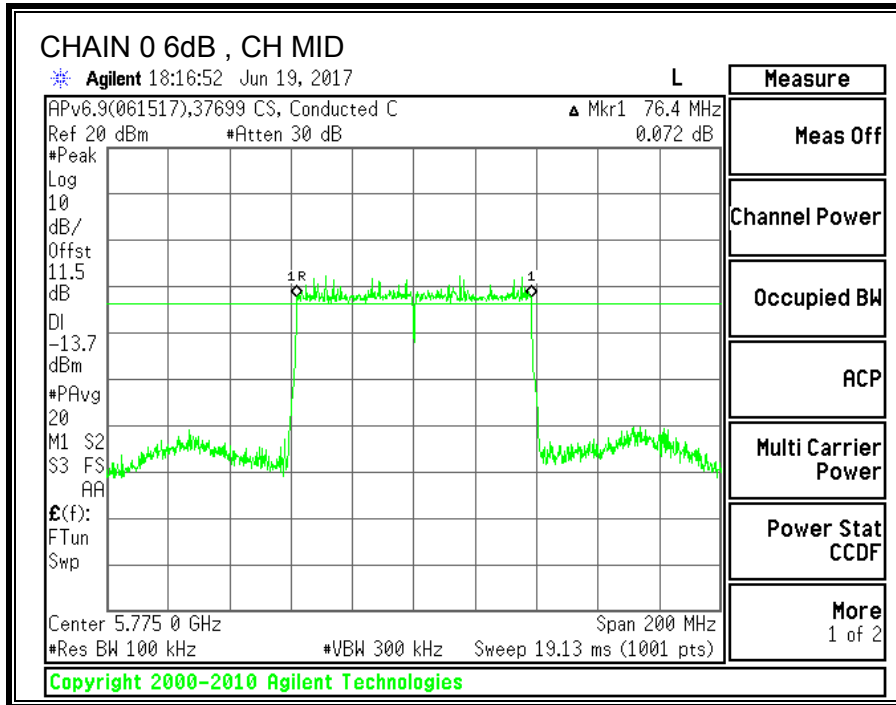
FCC §15.407 (e)

IC RSS-247 (6.2.4) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

| Channel | Frequency | 6 dB BW CHAIN 0 (MHz) | 6 dB BW CHAIN 1 (MHz) | Minimum Limit (MHz) |
|---------|-----------|-----------------------------|-----------------------------|------------------------|
| 155 | 5775 | 76.4 | 76.4 | 0.5 |



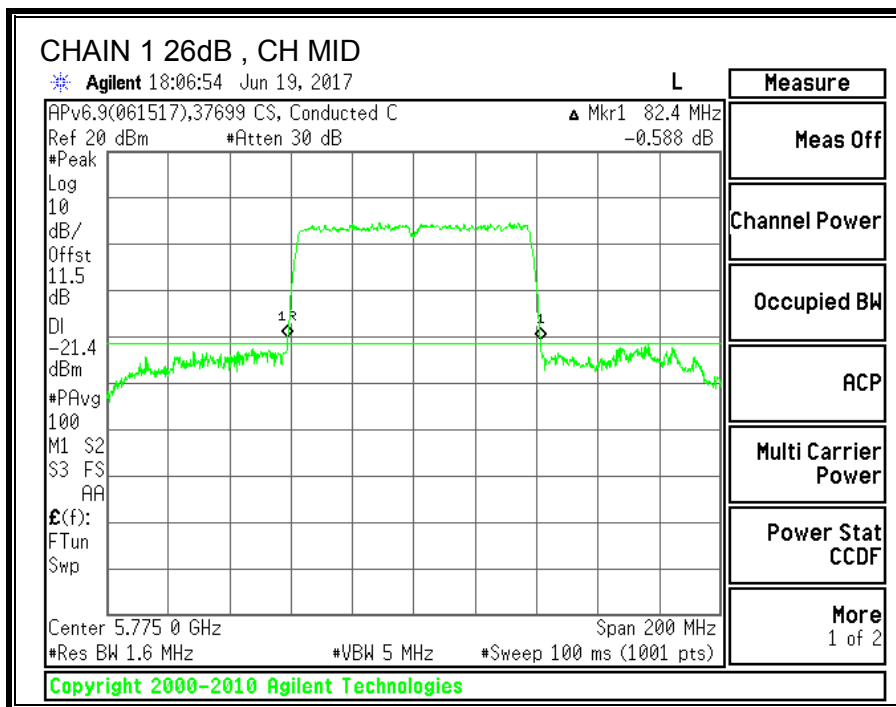
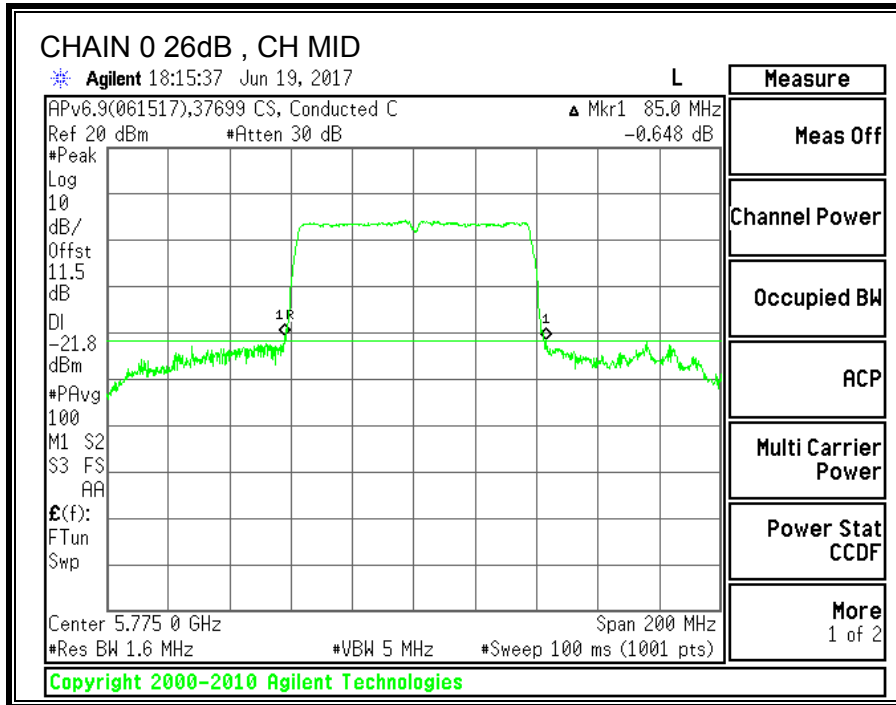
9.16.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency | 26 dB BW CHAIN 0 (MHz) | 26 dB BW CHAIN 1 (MHz) |
|---------|-----------|------------------------------|------------------------------|
| 155 | 5775 | 85.0 | 82.4 |



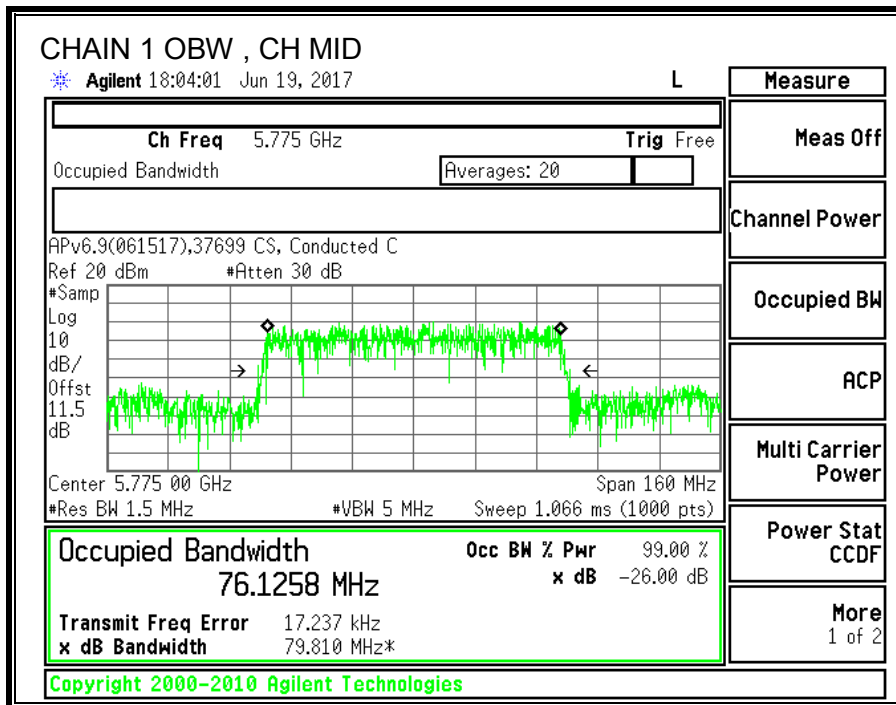
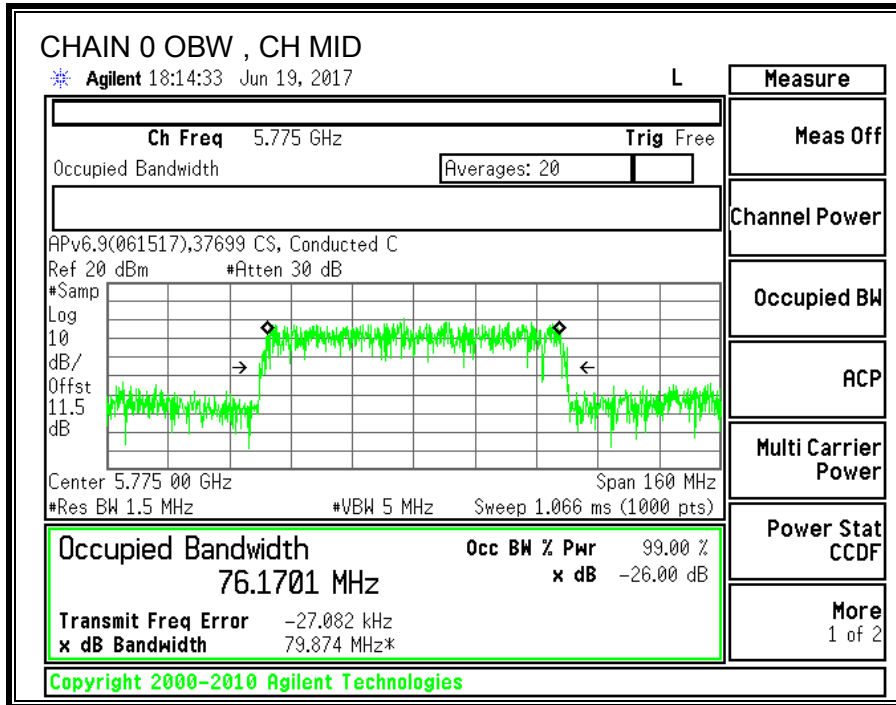
9.16.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

| Channel | Frequency | 99% BW CHAIN 0 (MHz) | 99% BW CHAIN 1 (MHz) |
|---------|-----------|----------------------------|----------------------------|
| 155 | 5775 | 76.1701 | 76.1258 |



9.16.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

IC RSS-247 (6.2.4) (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

| Chain 0 Antenna Gain (dBi) | Chain 1 Antenna Gain (dBi) | Uncorrelated Chains Directional Gain (dBi) | Correlated Chains Directional Gain (dBi) |
|-------------------------------------|-------------------------------------|---|---|
| 4.40 | 4.50 | 4.45 | 7.46 |

RESULTS

| | | | |
|------------|----------|--------------|----------|
| ID: | 37699 CS | Date: | 06/16/17 |
|------------|----------|--------------|----------|

Bandwidth and Antenna Gain

| Channel | Frequency (MHz) | Min 26 dB BW (MHz) | Min 99% BW (MHz) | Directional Gain for Power (dBi) | Directional Gain for PPSD (dBi) |
|---------|--------------------|-----------------------------|---------------------------|---|--|
| 155 | 5775 | 82.40 | 76.13 | 4.45 | 7.46 |

Limits

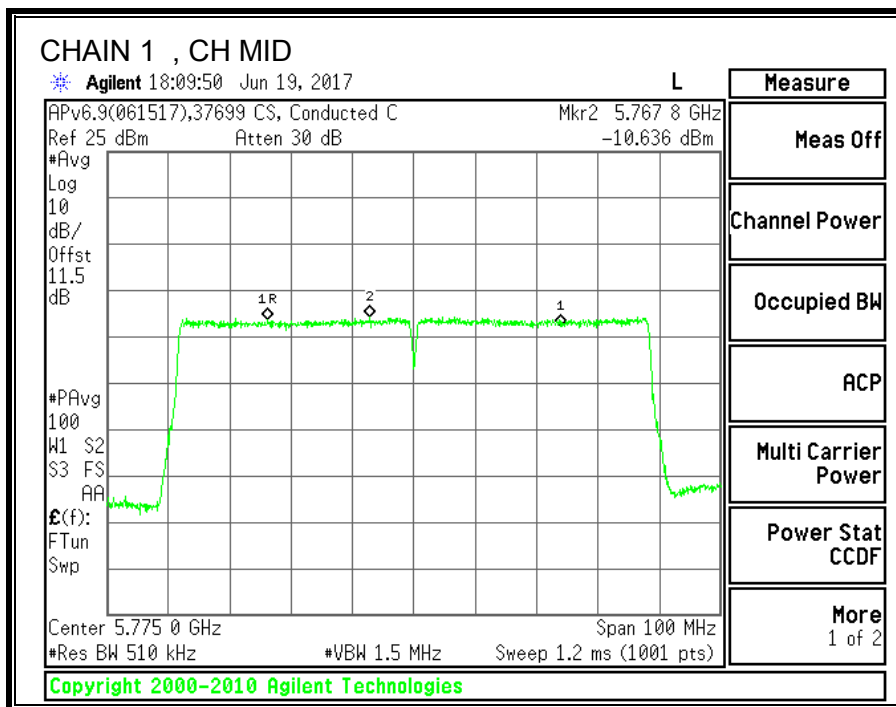
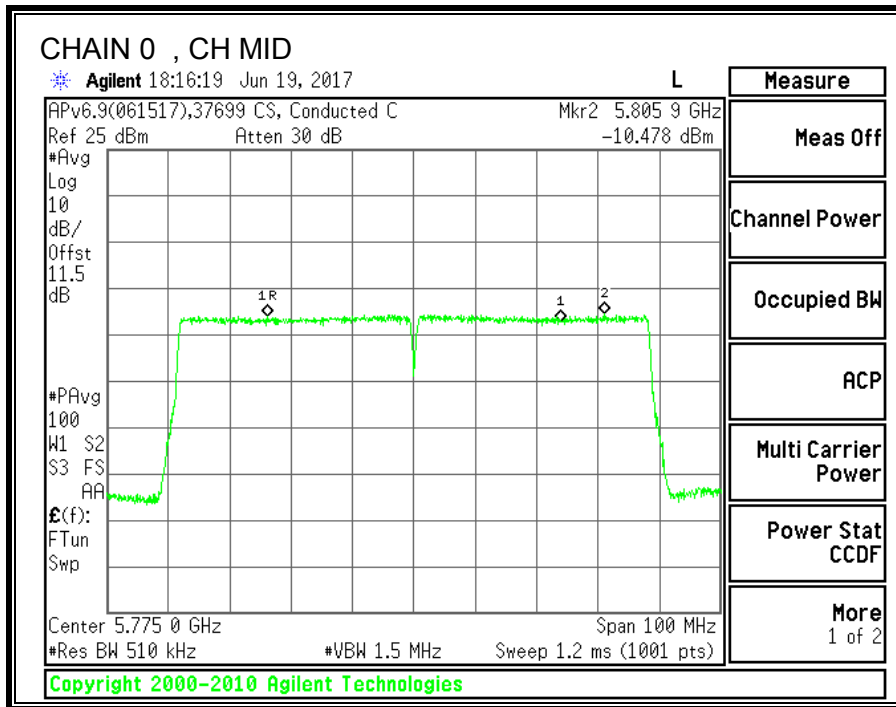
| Channel | Frequency (MHz) | FCC Power Limit (dBm) | IC Power Limit (dBm) | IC EIRP Limit (dBm) | Power Limit (dBm) | FCC PPSD Limit (dBm) | IC PSD Limit (dBm) | PPSD Limit (dBm) |
|---------|--------------------|--------------------------------|-------------------------------|------------------------------|-------------------------|-------------------------------|-----------------------------|------------------------|
| 155 | 5775 | 30.00 | 30.00 | 36.00 | 30.00 | 30.00 | 17.00 | 17.00 |

Output Power Results

| Channel | Frequency (MHz) | Chain 0 Meas Power (dBm) | Chain 1 Meas Power (dBm) | Total Corr'd Power (dBm) | Power Limit (dBm) | Power Margin (dB) |
|---------|--------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|
| 155 | 5775 | 9.96 | 9.51 | 12.75 | 30.00 | -17.25 |

PPSD Results

| Channel | Frequency (MHz) | Chain 0 Meas PPSD (dBm) | Chain 1 Meas PPSD (dBm) | Total Corr'd PPSD (dBm) | PPSD Limit (dBm) | PPSD Margin (dB) |
|---------|--------------------|----------------------------------|----------------------------------|----------------------------------|------------------------|------------------------|
| 155 | 5775 | -10.48 | -10.64 | -7.55 | 17.00 | -24.55 |



10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

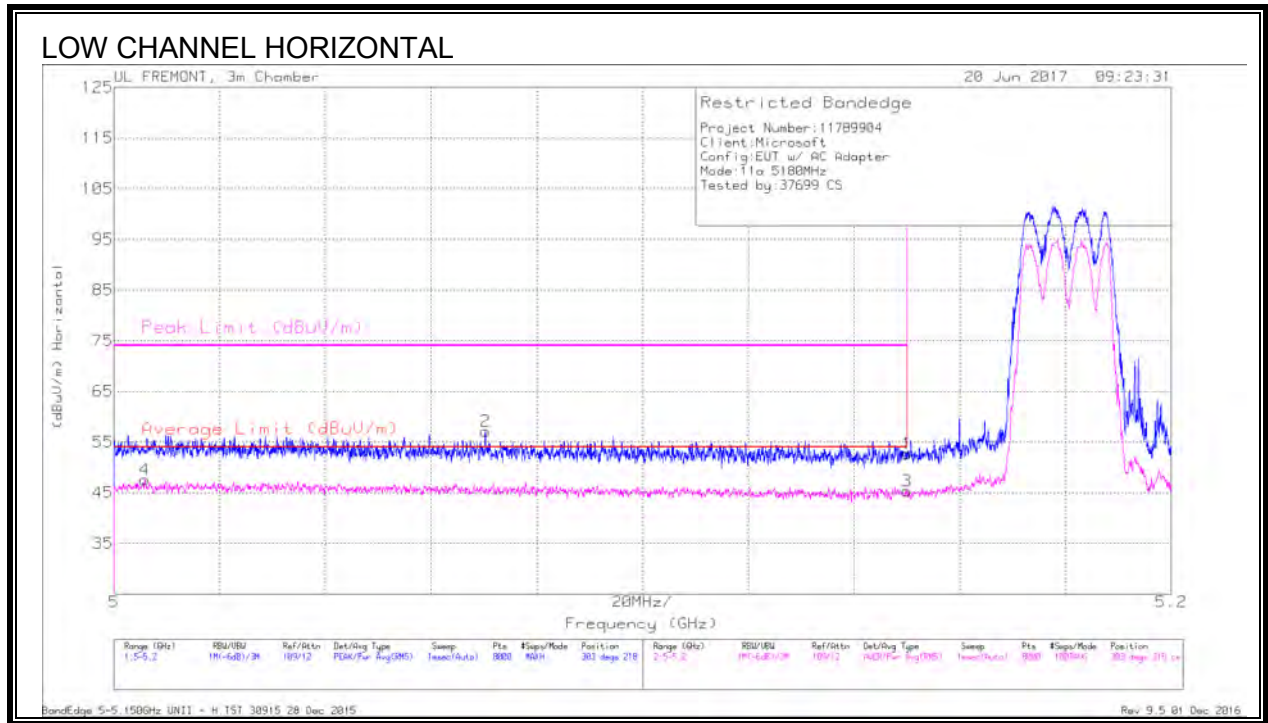
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and RMS for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

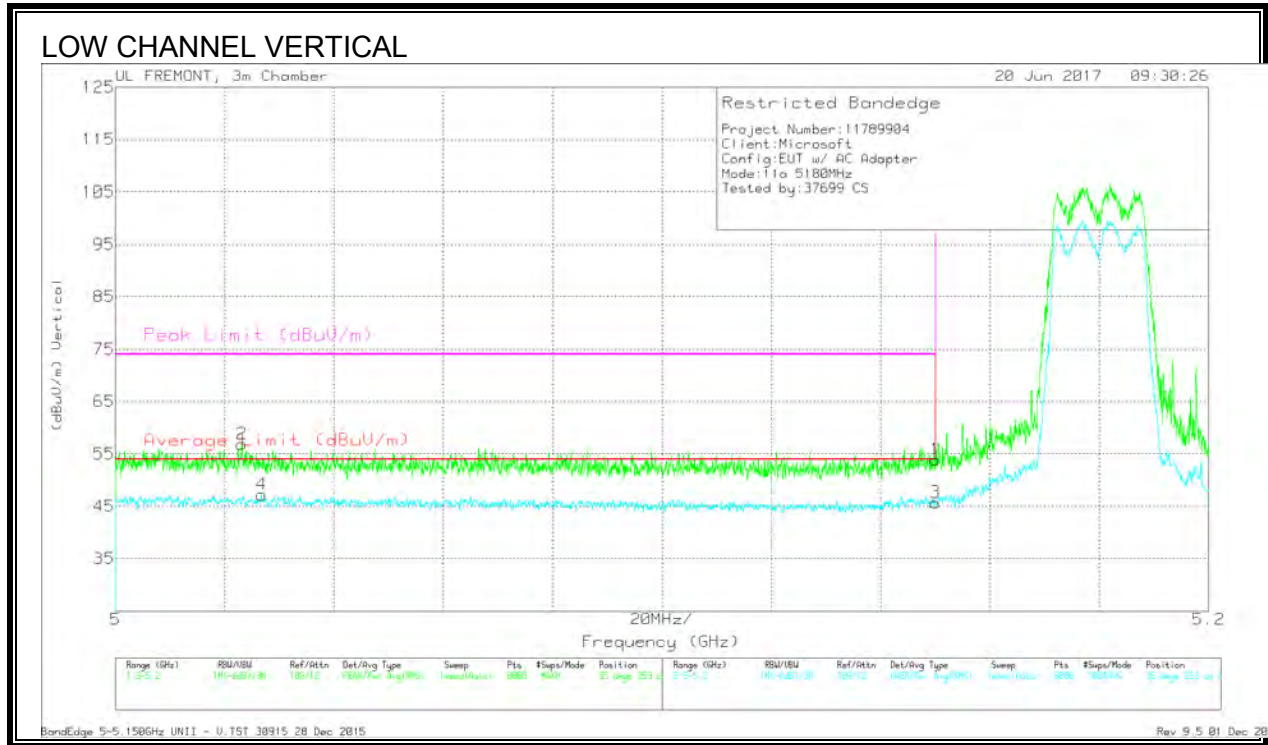
10.1.1. 11a 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/CbI/Ftr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 4 | 5.006 | 32.58 | RMS | 34.1 | -19.1 | 47.58 | 54 | -6.42 | - | - | 303 | 218 | H |
| 2 | 5.07 | 42.21 | Pk | 34.1 | -19.2 | 57.11 | - | - | 74 | -16.89 | 303 | 218 | H |
| 1 | 5.15 | 38.04 | Pk | 34.2 | -19.6 | 52.64 | - | - | 74 | -21.36 | 303 | 218 | H |
| 3 | 5.15 | 30.73 | RMS | 34.2 | -19.6 | 45.33 | 54 | -8.67 | - | - | 303 | 218 | H |

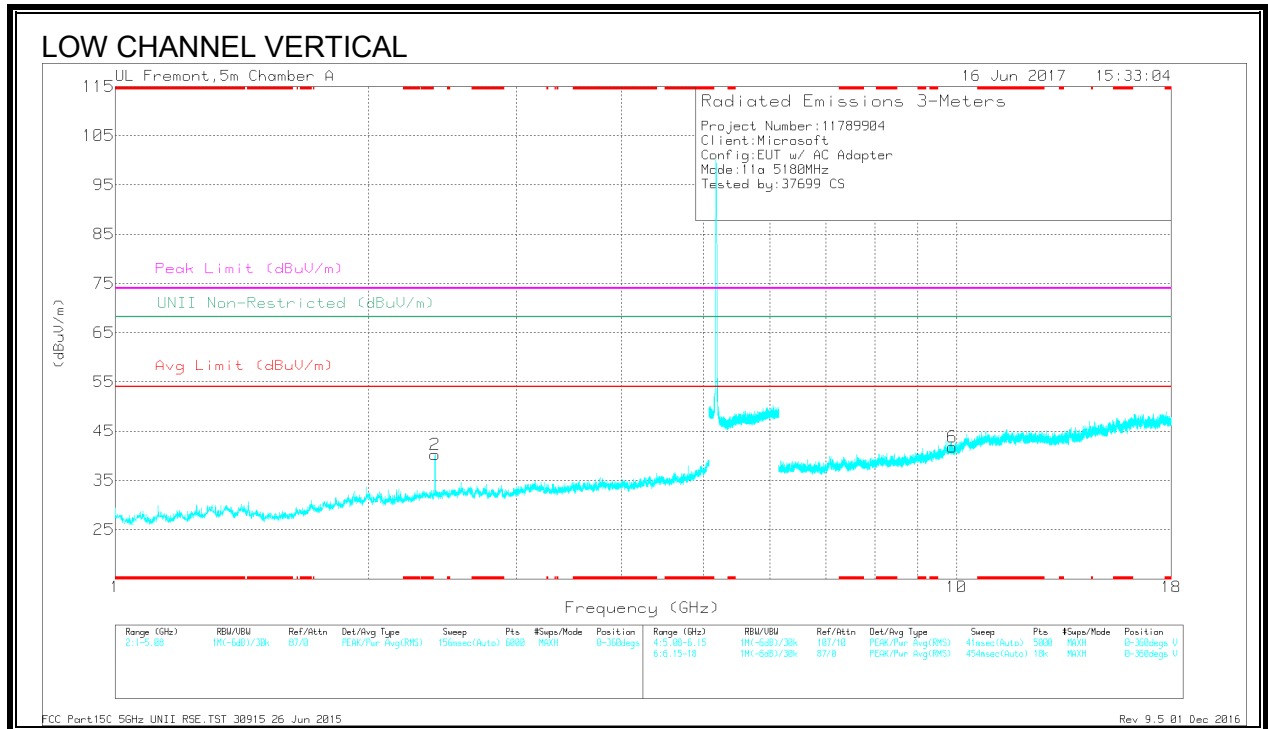
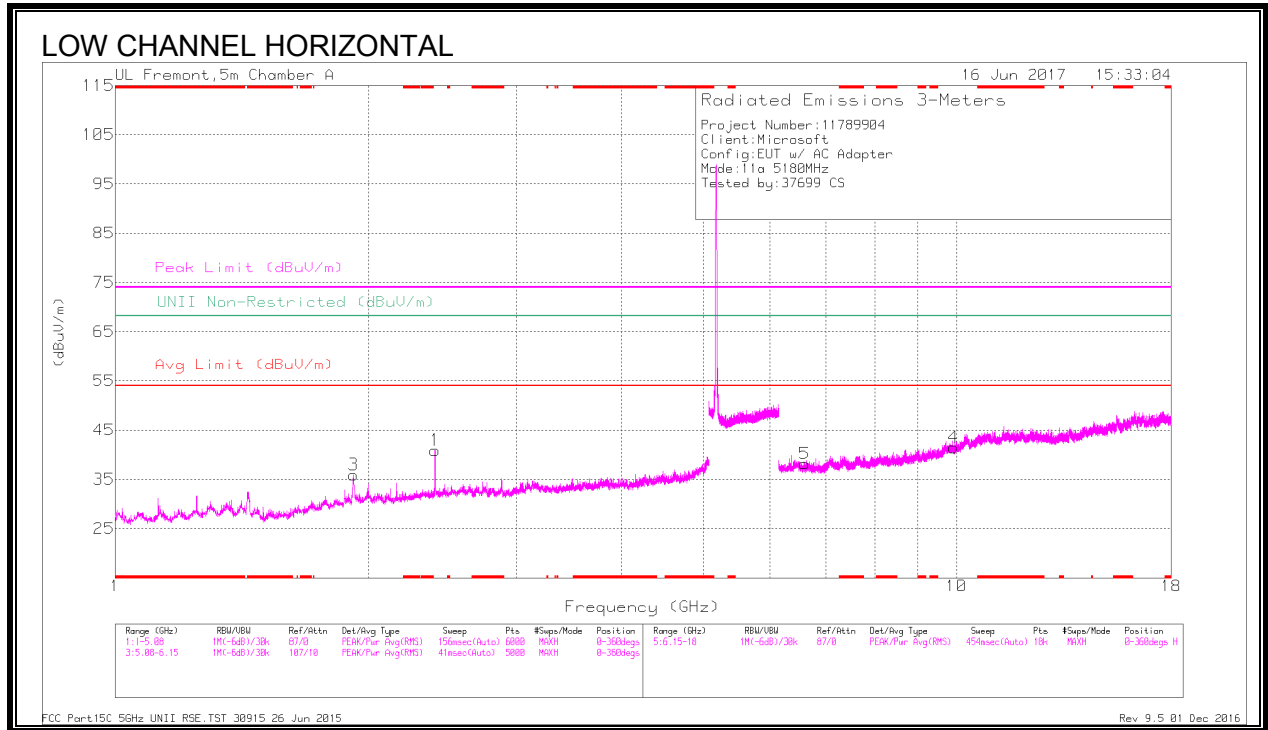
Pk - Peak detector
 RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | 5.023 | 42.1 | Pk | 34.1 | -19.3 | 56.9 | - | - | 74 | -17.1 | 35 | 253 | V |
| 4 | 5.027 | 32.24 | RMS | 34.1 | -19.2 | 47.14 | 54 | -6.86 | - | - | 35 | 253 | V |
| 1 | 5.15 | 39.28 | Pk | 34.2 | -19.6 | 53.88 | - | - | 74 | -20.12 | 35 | 253 | V |
| 3 | 5.15 | 31.05 | RMS | 34.2 | -19.6 | 45.65 | 54 | -8.35 | - | - | 35 | 253 | V |

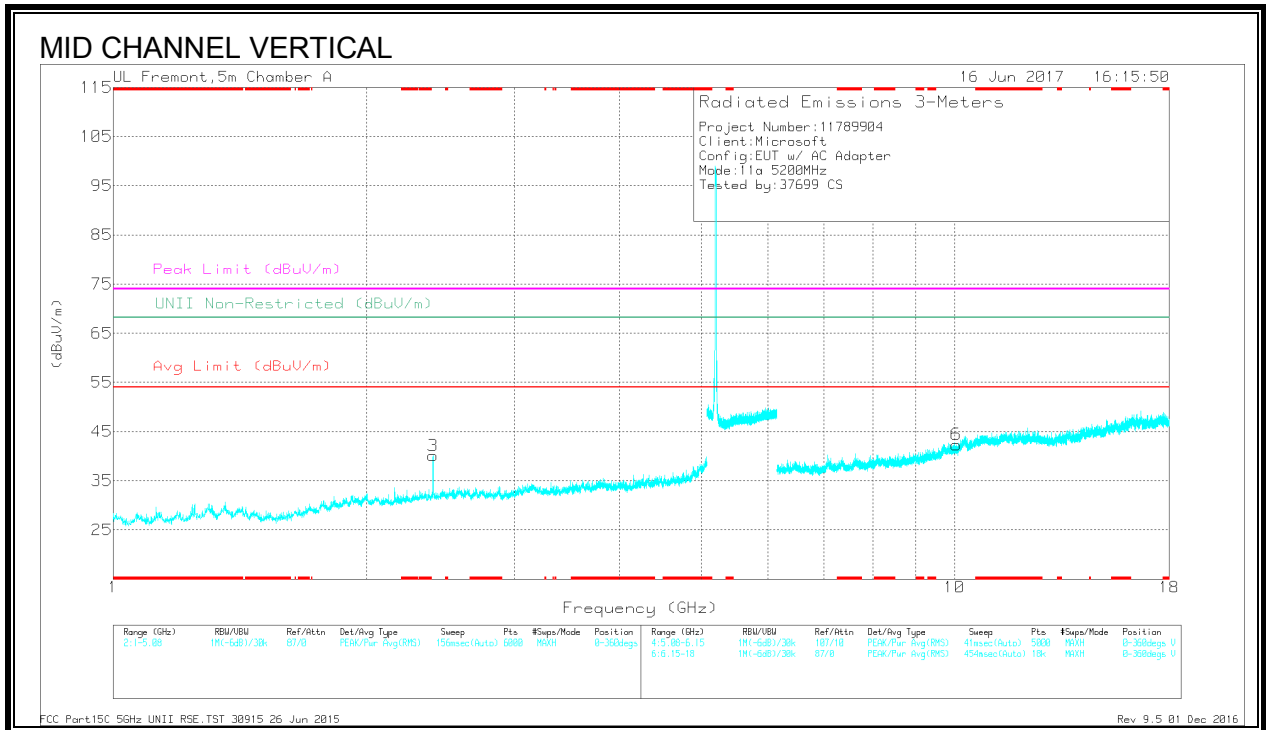
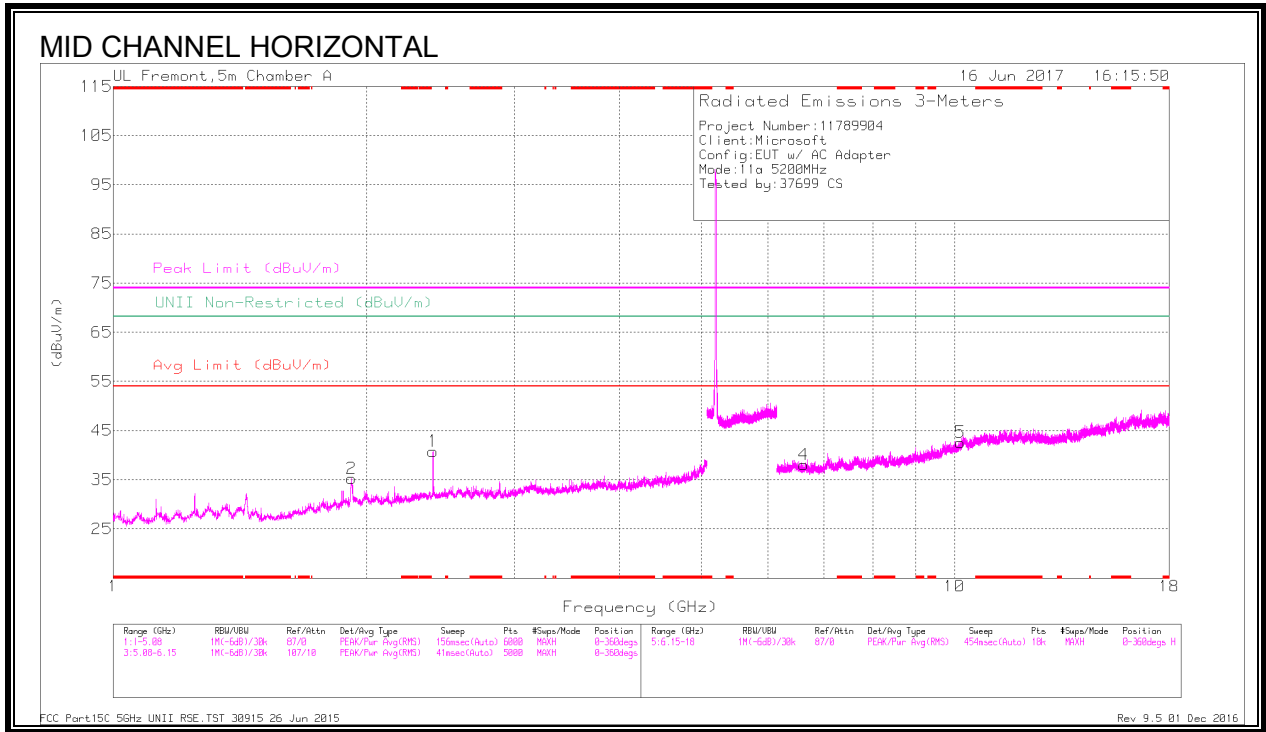
Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



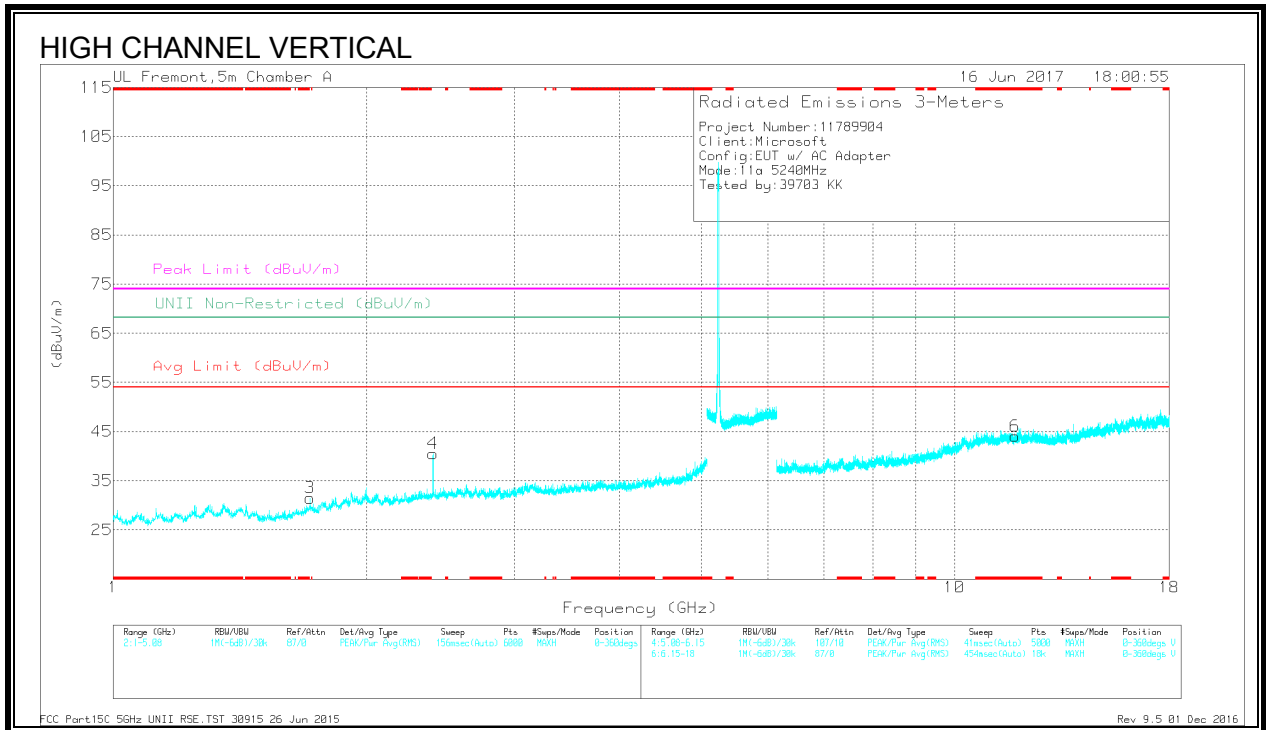
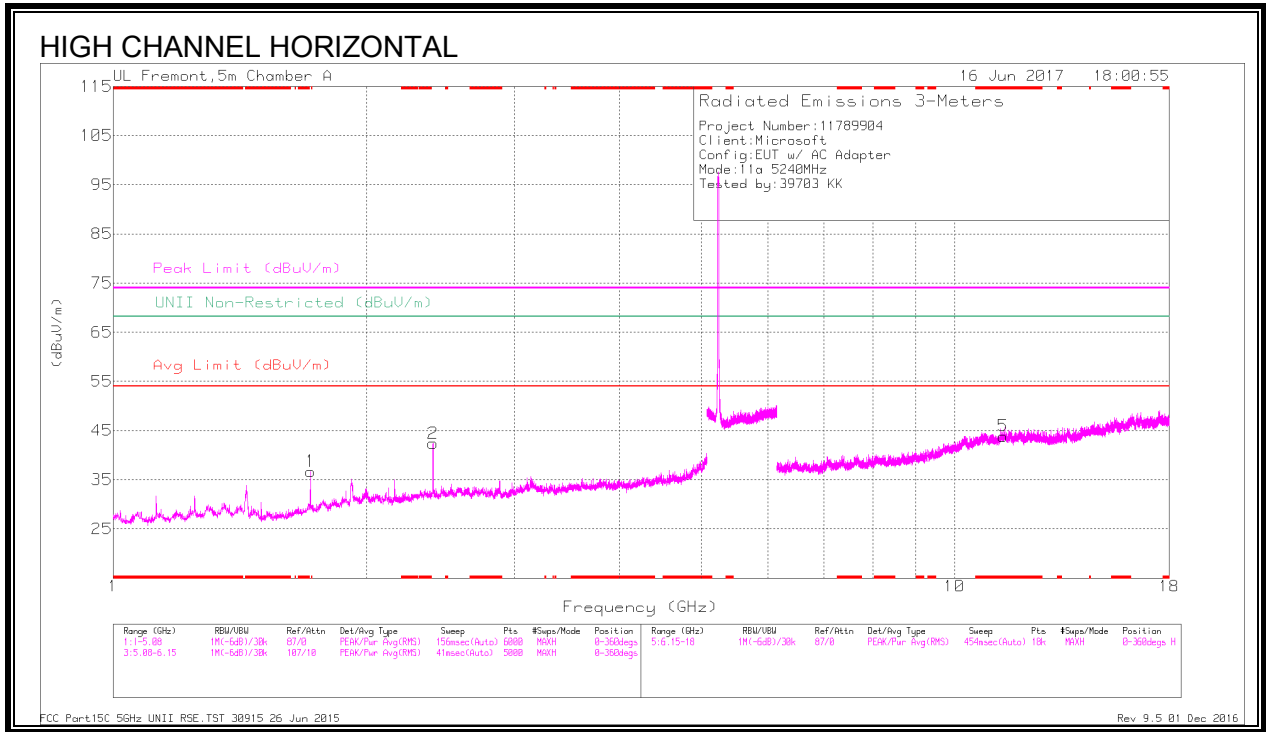
| Markers | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 3 | 1.92 | 51.93 | PK-U | 31.3 | -33.3 | 49.93 | - | - | - | - | 68.2 | -18.27 | 171 | 163 | H |
| 1 | 2.4 | 47.98 | PK-U | 32.1 | -32.2 | 47.88 | - | - | - | - | 68.2 | -20.32 | 175 | 135 | H |
| 2 | 2.401 | 44.89 | PK-U | 32.1 | -32.2 | 44.79 | - | - | - | - | 68.2 | -23.41 | 191 | 251 | V |
| 5 | 6.603 | 34.61 | PK-U | 35.6 | -26.2 | 44.01 | - | - | - | - | 68.2 | -24.19 | 171 | 187 | H |
| 6 | 9.891 | 33 | PK-U | 36.9 | -21.6 | 48.3 | - | - | - | - | 68.2 | -19.9 | 50 | 101 | V |
| 4 | 9.923 | 32.18 | PK-U | 36.9 | -21.6 | 47.48 | - | - | - | - | 68.2 | -20.72 | 142 | 220 | H |

PK-U - U-NII: Maximum Peak



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (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 | 1.92 | 51.5 | PK-U | 31.3 | -33.3 | 49.5 | - | - | - | - | 68.2 | -18.7 | 171 | 105 | H |
| 1 | 2.4 | 48.11 | PK-U | 32.1 | -32.2 | 48.01 | - | - | - | - | 68.2 | -20.19 | 175 | 142 | H |
| 3 | 2.4 | 44.79 | PK-U | 32.1 | -32.3 | 44.59 | - | - | - | - | 68.2 | -23.61 | 210 | 102 | V |
| 4 | 6.626 | 34.19 | PK-U | 35.6 | -25.9 | 43.89 | - | - | - | - | 68.2 | -24.31 | 222 | 187 | H |
| 6 | 10.048 | 31.97 | PK-U | 36.9 | -21.1 | 47.77 | - | - | - | - | 68.2 | -20.43 | 287 | 305 | V |
| 5 | 10.161 | 32.79 | PK-U | 37 | -21.1 | 48.69 | - | - | - | - | 68.2 | -19.51 | 300 | 144 | H |

PK-U - U-NII: Maximum Peak



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (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 |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 5 | * 11.421 | 31.88 | PK-U | 38 | -19.7 | 50.18 | - | - | 74 | -23.82 | - | - | 172 | 101 | H |
| | * 11.424 | 21.17 | ADR | 38 | -19.7 | 39.47 | 54 | -14.53 | - | - | - | - | 172 | 101 | H |
| 6 | * 11.805 | 31.99 | PK-U | 38.4 | -20.1 | 50.29 | - | - | 74 | -23.71 | - | - | 172 | 101 | V |
| | * 11.807 | 21.13 | ADR | 38.4 | -20.1 | 39.43 | 54 | -14.57 | - | - | - | - | 172 | 101 | V |
| 3 | 1.714 | 40.26 | PK-U | 29.4 | -32.8 | 36.86 | - | - | - | - | 68.2 | -31.34 | 308 | 126 | V |
| 1 | 1.716 | 40.93 | PK-U | 29.4 | -32.8 | 37.53 | - | - | - | - | 68.2 | -30.67 | 75 | 230 | H |
| 2 | 2.4 | 47.45 | PK-U | 32.1 | -32.3 | 47.25 | - | - | - | - | 68.2 | -20.95 | 172 | 147 | H |
| 4 | 2.401 | 45.53 | PK-U | 32.1 | -32.2 | 45.43 | - | - | - | - | 68.2 | -22.77 | 172 | 101 | V |

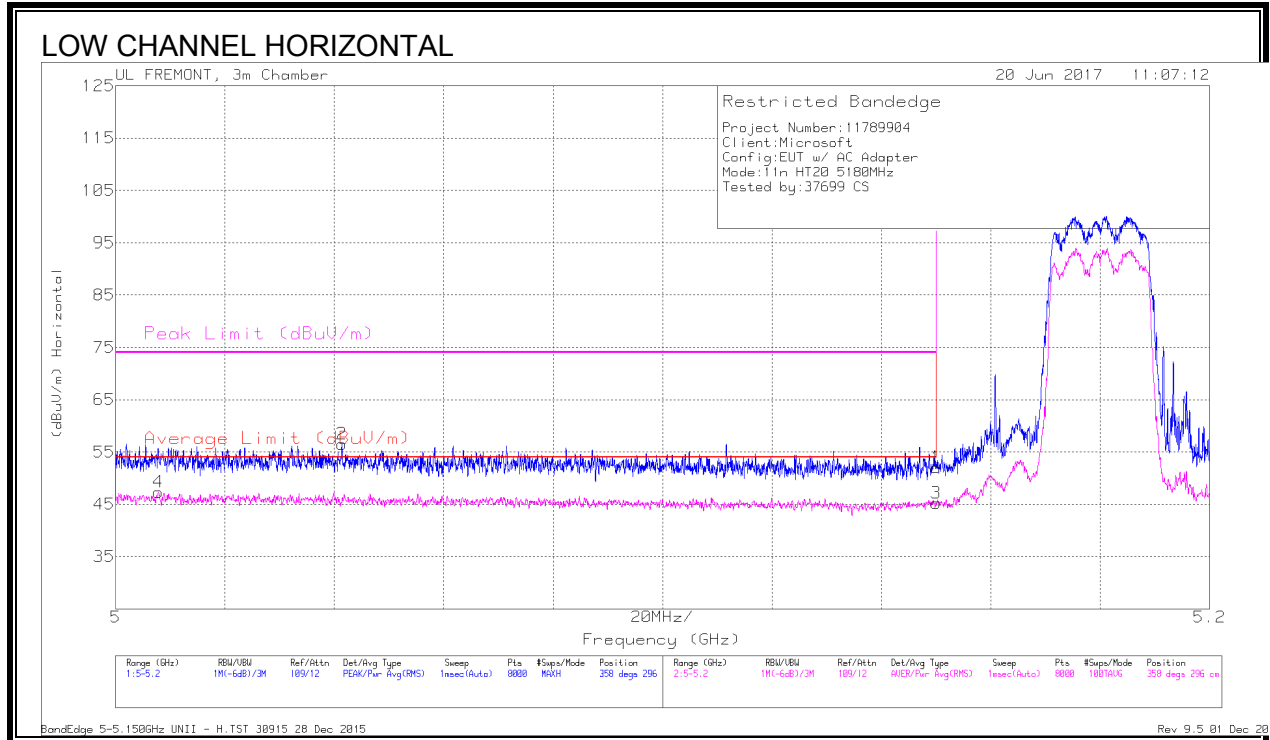
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

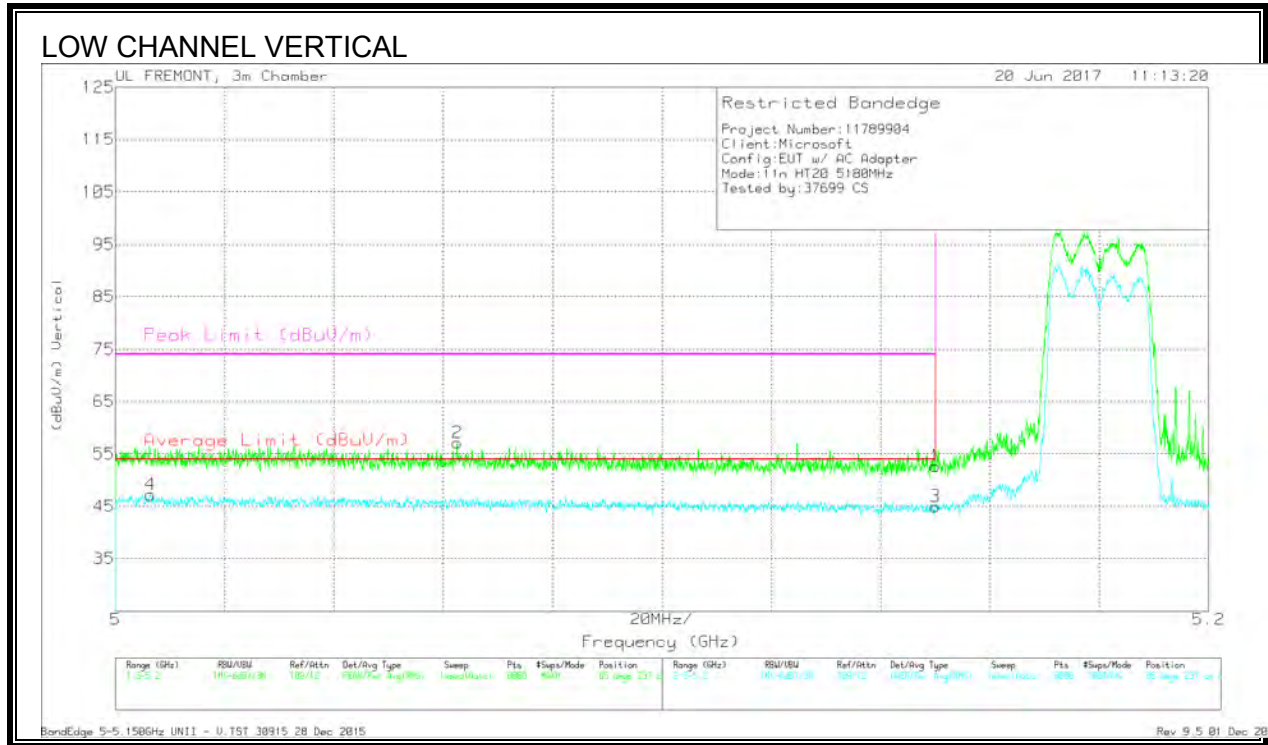
10.1.2. 11n HT20 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dBm) | Amp/Cbl/Ftr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 4 | 5.008 | 32.29 | RMS | 34.1 | -19.1 | 47.29 | 54 | -6.71 | - | - | 358 | 296 | H |
| 2 | 5.041 | 41.65 | Pk | 34.1 | -19.2 | 56.55 | - | - | 74 | -17.45 | 358 | 296 | H |
| 1 | 5.15 | 37.44 | Pk | 34.2 | -19.6 | 52.04 | - | - | 74 | -21.96 | 358 | 296 | H |
| 3 | 5.15 | 30.63 | RMS | 34.2 | -19.6 | 45.23 | 54 | -8.77 | - | - | 358 | 296 | H |

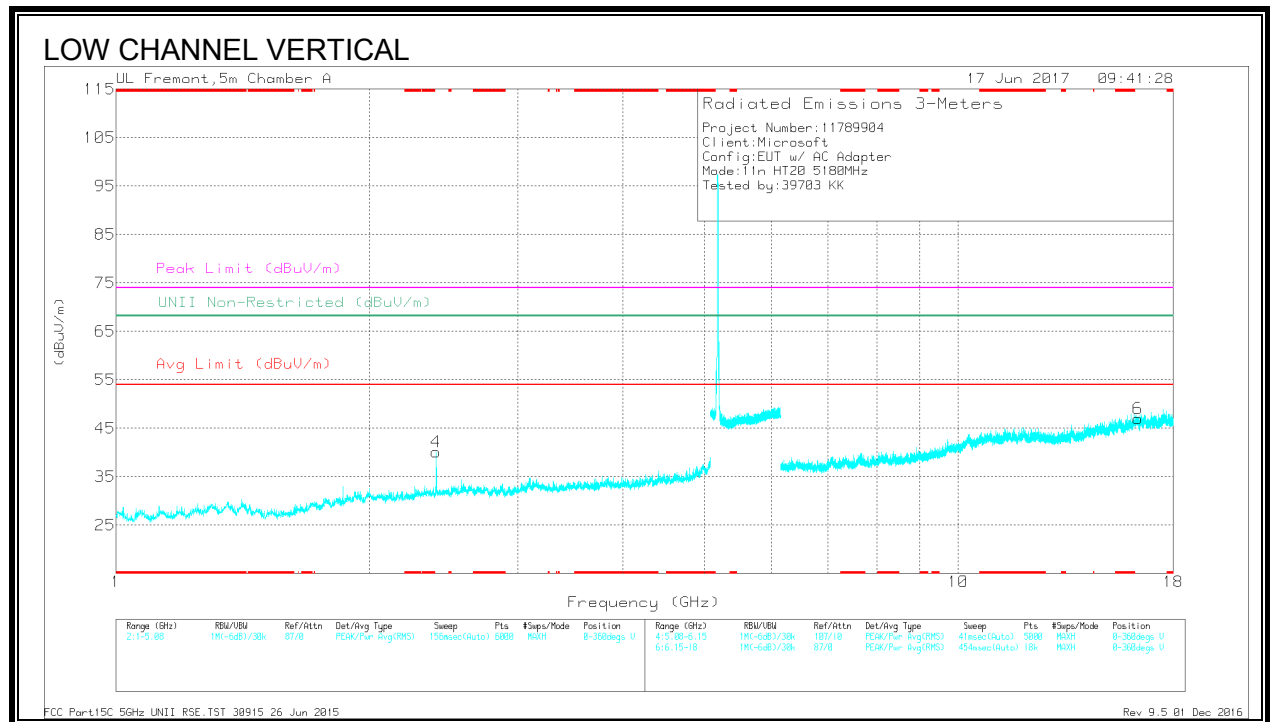
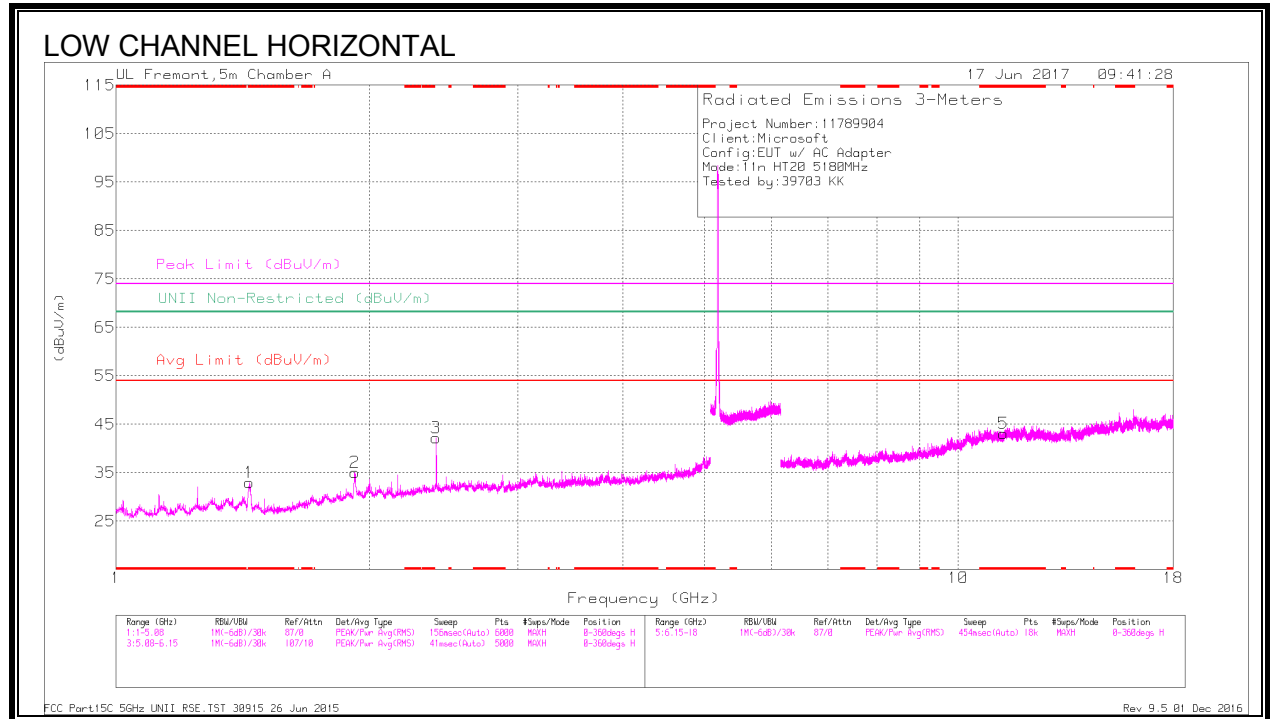
Pk - Peak detector
 RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 4 | 5.006 | 32.2 | RMS | 34.1 | -19.1 | 47.2 | 54 | -6.8 | - | - | 85 | 237 | V |
| 2 | 5.063 | 42.11 | Pk | 34.1 | -19.1 | 57.11 | - | - | 74 | -16.89 | 85 | 237 | V |
| 1 | 5.15 | 38.03 | Pk | 34.2 | -19.6 | 52.63 | - | - | 74 | -21.37 | 85 | 237 | V |
| 3 | 5.15 | 30.33 | RMS | 34.2 | -19.6 | 44.93 | 54 | -9.07 | - | - | 85 | 237 | V |

Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

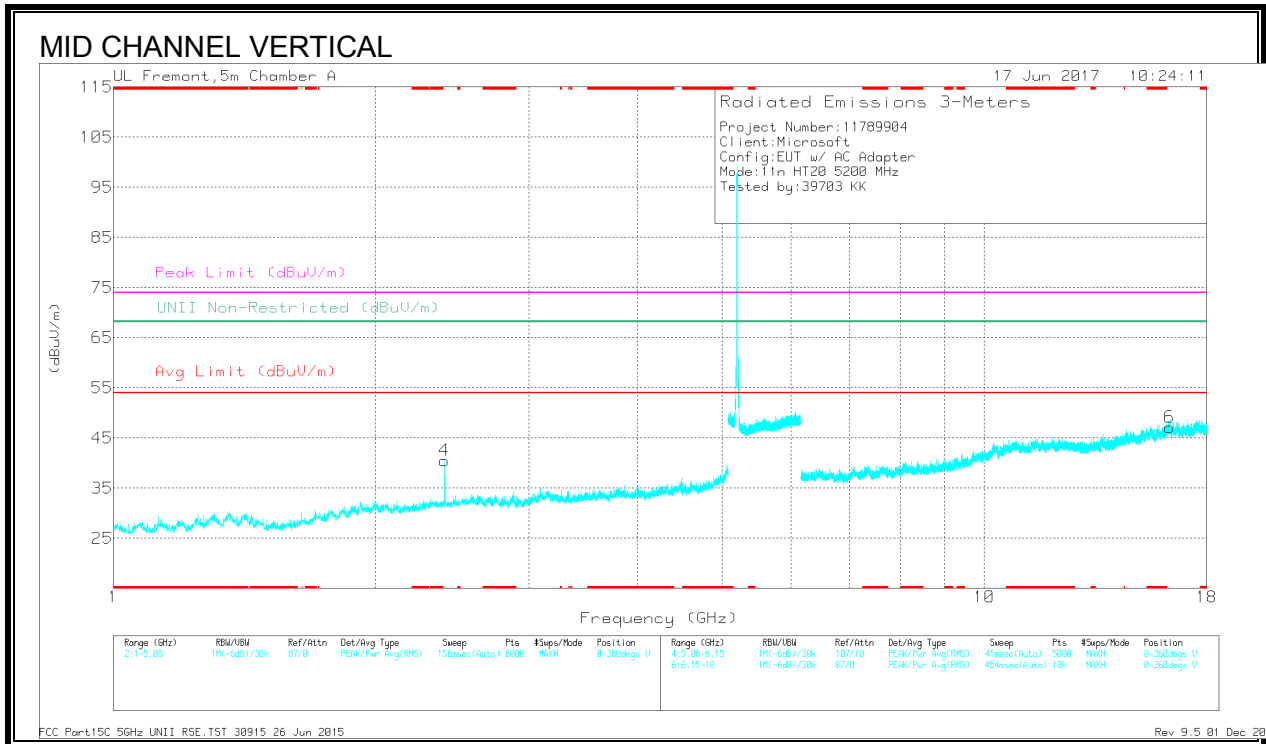
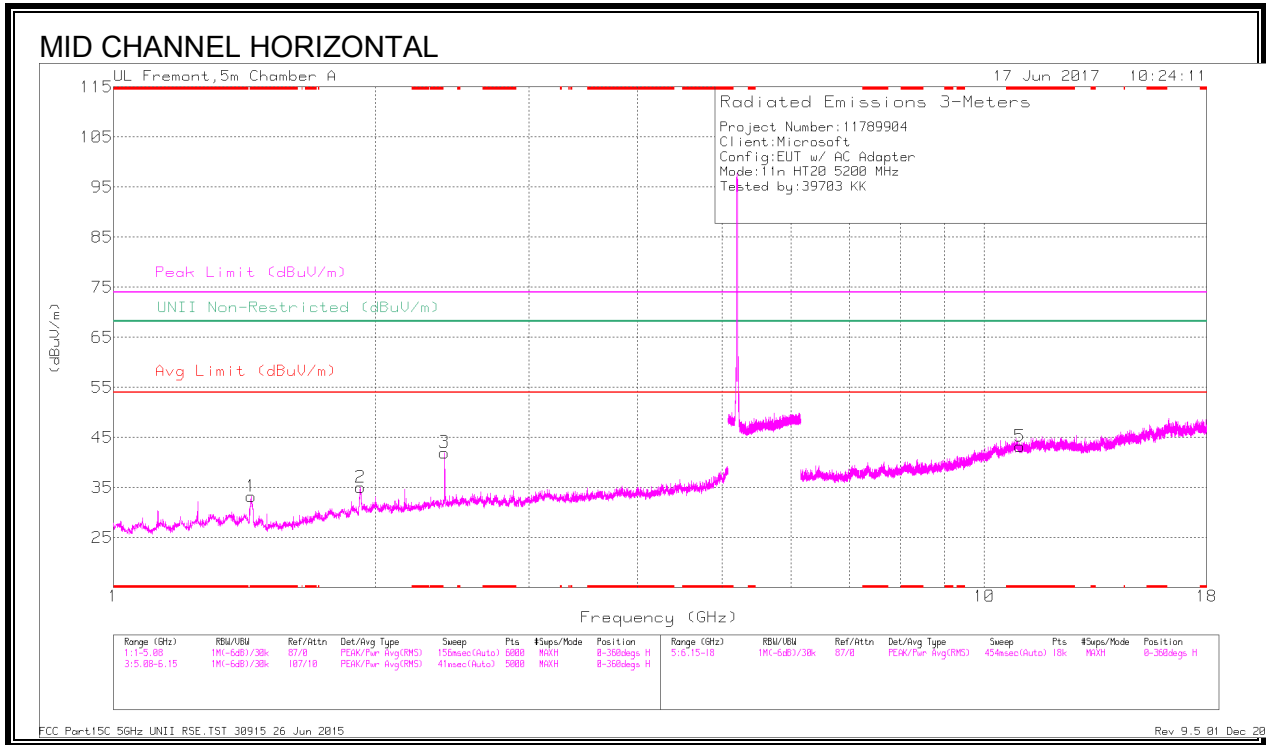


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.441 | 52.78 | PK-U | 28.8 | -33.6 | 47.98 | - | - | 74 | -26.02 | - | - | 212 | 151 | H |
| | * 1.44 | 33.56 | ADR | 28.8 | -33.6 | 28.76 | 54 | -25.24 | - | - | - | - | 212 | 151 | H |
| 5 | * 11.309 | 31.79 | PK-U | 37.9 | -19.7 | 49.99 | - | - | 74 | -24.01 | - | - | 172 | 102 | H |
| | * 11.31 | 20.67 | ADR | 37.9 | -19.6 | 38.97 | 54 | -15.03 | - | - | - | - | 172 | 102 | H |
| 2 | 1.919 | 52.46 | PK-U | 31.3 | -33.3 | 50.46 | - | - | - | - | 68.2 | -17.74 | 166 | 175 | H |
| 3 | 2.4 | 48.36 | PK-U | 32.1 | -32.3 | 48.16 | - | - | - | - | 68.2 | -20.04 | 168 | 117 | H |
| 4 | 2.4 | 45.83 | PK-U | 32.1 | -32.2 | 45.73 | - | - | - | - | 68.2 | -22.47 | 172 | 122 | V |
| 6 | 16.343 | 32.18 | PK-U | 41.4 | -20 | 53.58 | - | - | - | - | 68.2 | -14.62 | 172 | 102 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

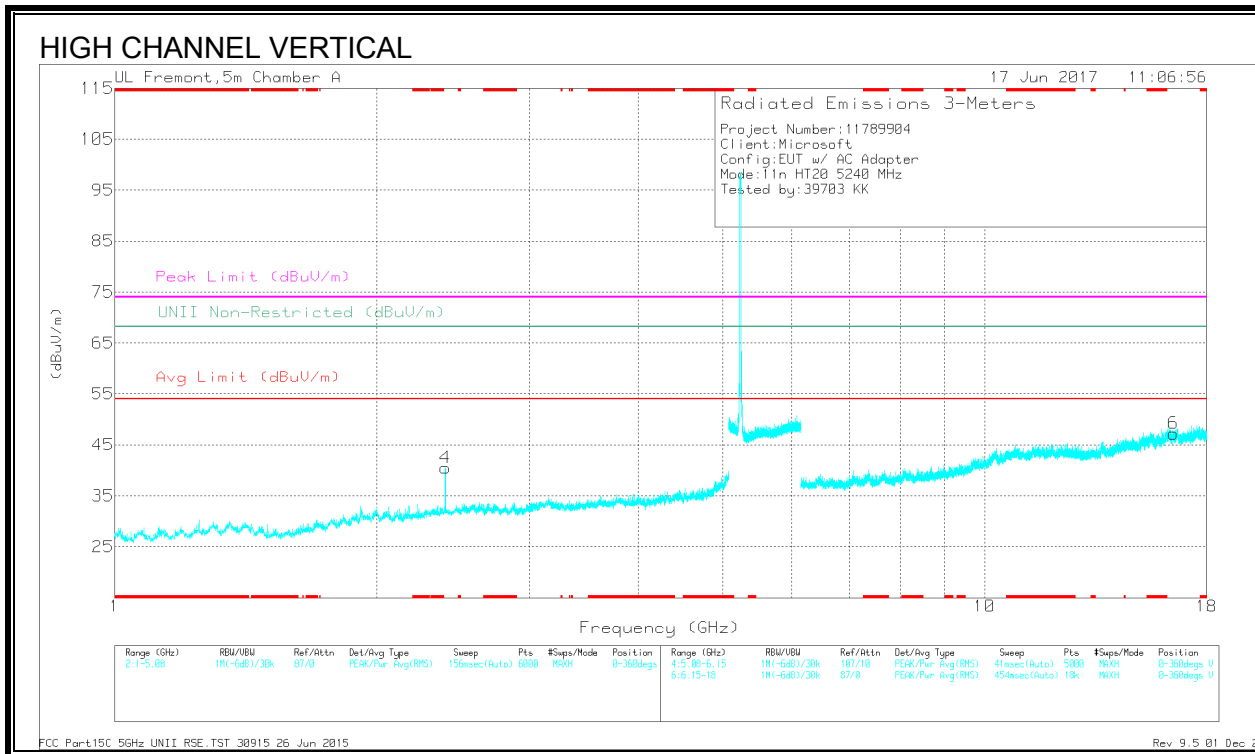
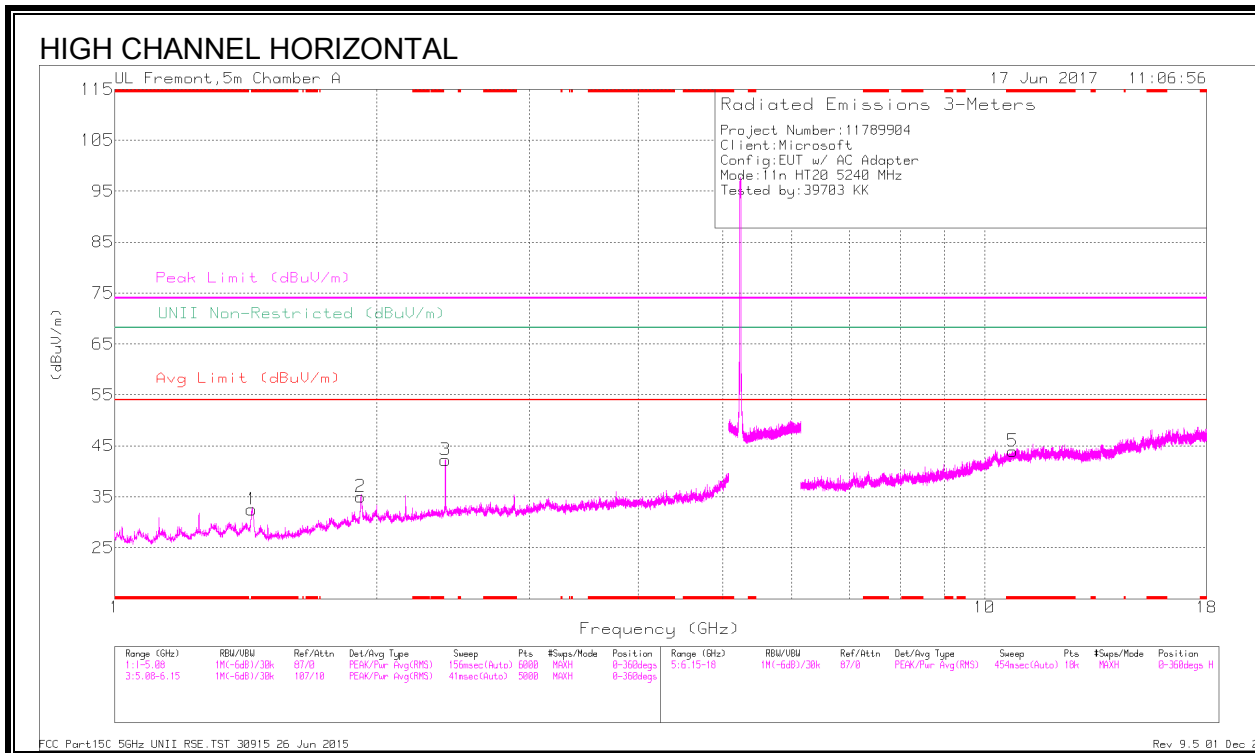


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.44 | 52.09 | PK-U | 28.8 | -33.6 | 47.29 | - | - | 74 | -26.71 | - | - | 213 | 137 | H |
| | * 1.44 | 32.98 | ADR | 28.8 | -33.6 | 28.18 | 54 | -25.82 | - | - | - | - | 213 | 137 | H |
| 5 | * 10.986 | 32.23 | PK-U | 37.8 | -20.3 | 49.73 | - | - | 74 | -24.27 | - | - | 170 | 199 | H |
| | * 10.985 | 21.29 | ADR | 37.8 | -20.3 | 38.79 | 54 | -15.21 | - | - | - | - | 170 | 199 | H |
| 2 | 1.921 | 52.07 | PK-U | 31.3 | -33.3 | 50.07 | - | - | - | - | 68.2 | -18.13 | 163 | 167 | H |
| 3 | 2.4 | 48.26 | PK-U | 32.1 | -32.3 | 48.06 | - | - | - | - | 68.2 | -20.14 | 171 | 148 | H |
| 4 | 2.4 | 45.81 | PK-U | 32.1 | -32.3 | 45.61 | - | - | - | - | 68.2 | -22.59 | 170 | 124 | V |
| 6 | 16.315 | 32.22 | PK-U | 41.4 | -20.4 | 53.22 | - | - | - | - | 68.2 | -14.98 | 170 | 102 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filt/Pad (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 | * 1.439 | 52.84 | PK-U | 28.8 | -33.5 | 48.14 | - | - | 74 | -25.86 | - | - | 210 | 115 | H |
| | * 1.439 | 31.85 | ADR | 28.8 | -33.5 | 27.15 | 54 | -26.85 | - | - | - | - | 210 | 115 | H |
| 5 | * 10.773 | 32.12 | PK-U | 37.9 | -20.3 | 49.72 | - | - | 74 | -24.28 | - | - | 171 | 199 | H |
| | * 10.772 | 21.45 | ADR | 37.9 | -20.3 | 39.05 | 54 | -14.95 | - | - | - | - | 171 | 199 | H |
| 2 | 1.919 | 49.99 | PK-U | 31.3 | -33.3 | 47.99 | - | - | - | - | 68.2 | -20.21 | 210 | 103 | H |
| 3 | 2.4 | 48.23 | PK-U | 32.1 | -32.3 | 48.03 | - | - | - | - | 68.2 | -20.17 | 169 | 118 | H |
| 4 | 2.4 | 45.99 | PK-U | 32.1 | -32.3 | 45.79 | - | - | - | - | 68.2 | -22.41 | 171 | 102 | V |
| 6 | 16.479 | 32.69 | PK-U | 41.6 | -20.1 | 54.19 | - | - | - | - | 68.2 | -14.01 | 171 | 199 | V |

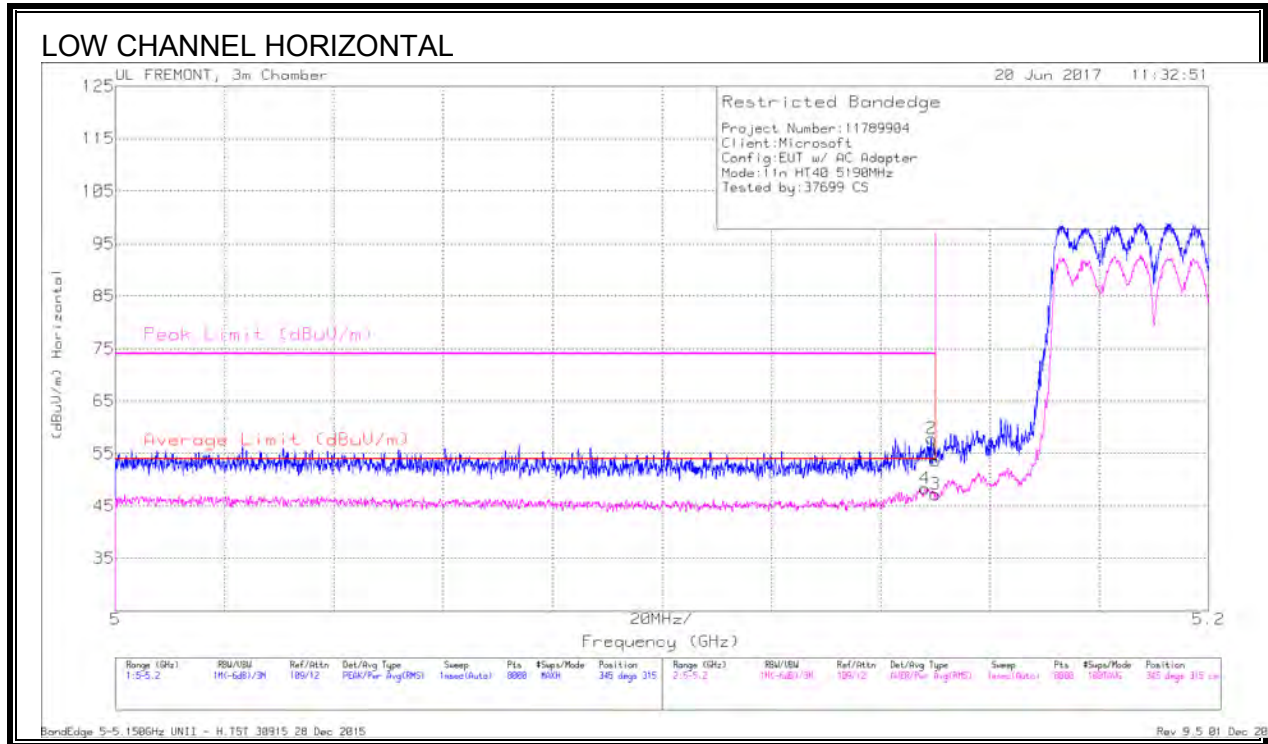
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

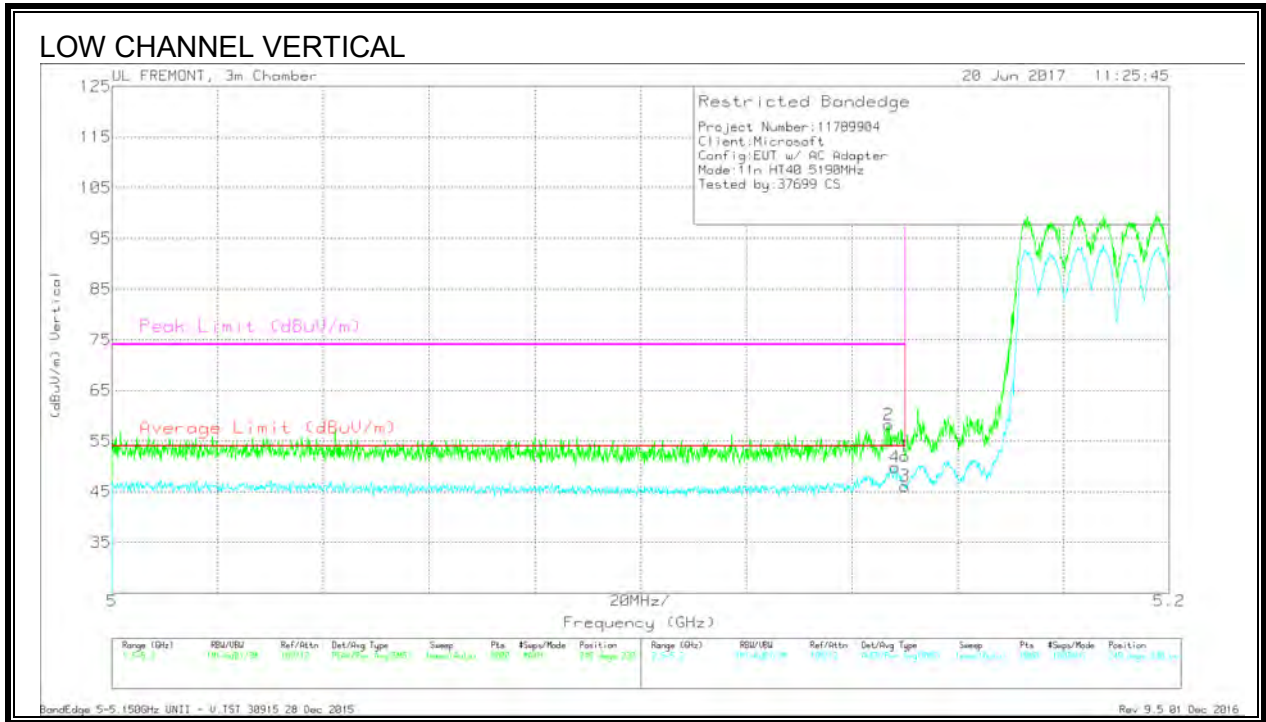
10.1.3. 11n HT40 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 4 | 5.148 | 33.69 | RMS | 34.2 | -19.6 | 48.29 | 54 | -5.71 | - | - | 345 | 315 | H |
| 2 | 5.149 | 43.22 | Pk | 34.2 | -19.6 | 57.82 | - | - | 74 | -16.18 | 345 | 315 | H |
| 1 | 5.15 | 39.08 | Pk | 34.2 | -19.6 | 53.68 | - | - | 74 | -20.32 | 345 | 315 | H |
| 3 | 5.15 | 32.56 | RMS | 34.2 | -19.6 | 47.16 | 54 | -6.84 | - | - | 345 | 315 | H |

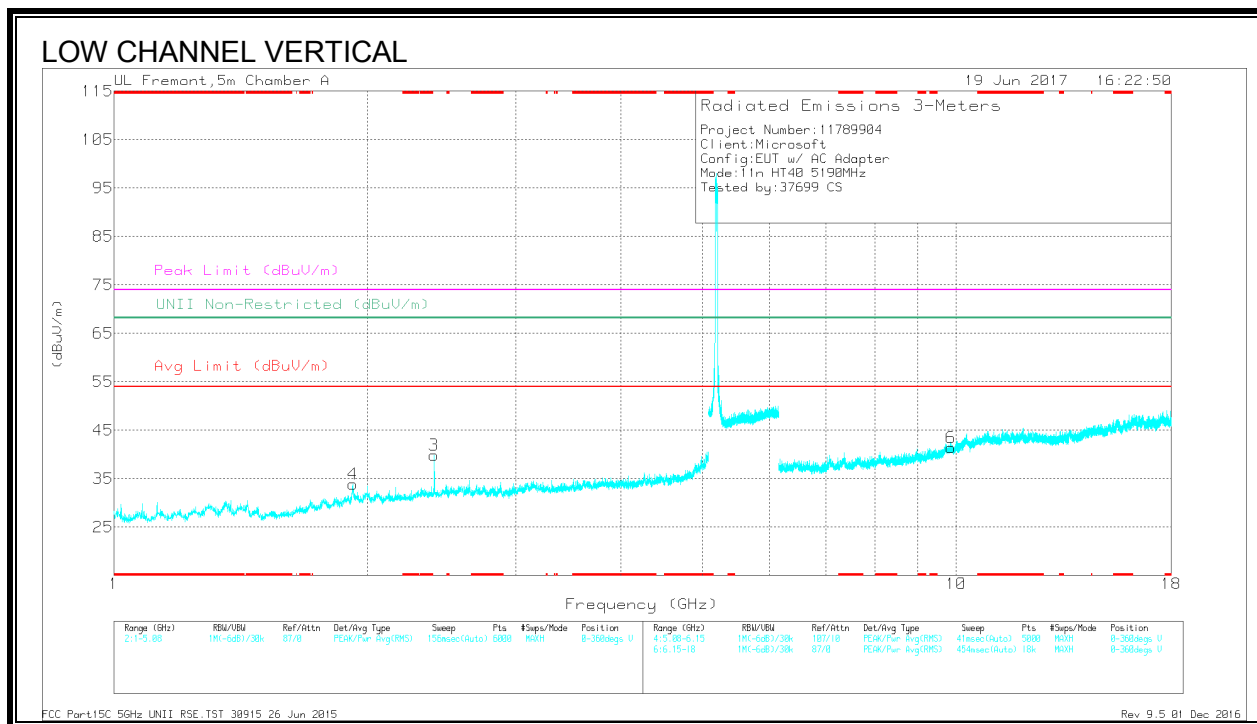
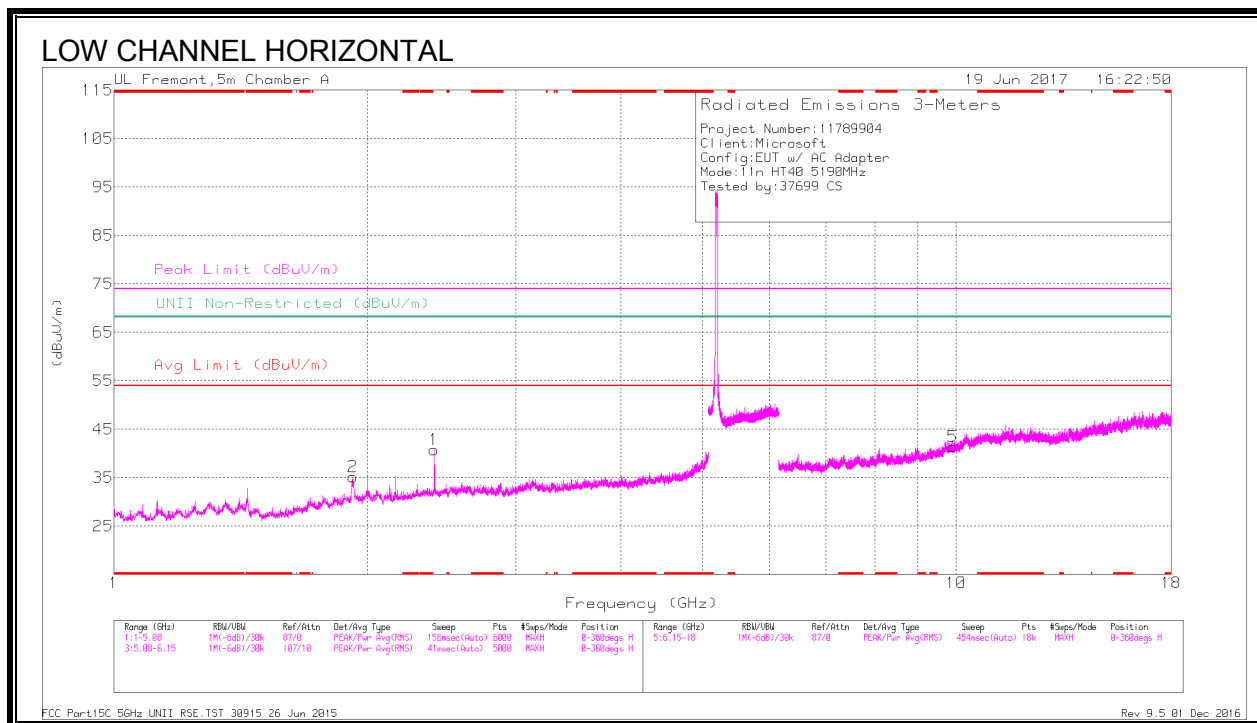
Pk - Peak detector
 RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | 5.147 | 43.6 | Pk | 34.2 | -19.6 | 58.2 | - | - | 74 | -15.8 | 249 | 230 | V |
| 4 | 5.148 | 35.18 | RMS | 34.2 | -19.6 | 49.78 | 54 | -4.22 | - | - | 249 | 230 | V |
| 1 | 5.15 | 37.48 | Pk | 34.2 | -19.6 | 52.08 | - | - | 74 | -21.92 | 249 | 230 | V |
| 3 | 5.15 | 31.53 | RMS | 34.2 | -19.6 | 46.13 | 54 | -7.87 | - | - | 249 | 230 | V |

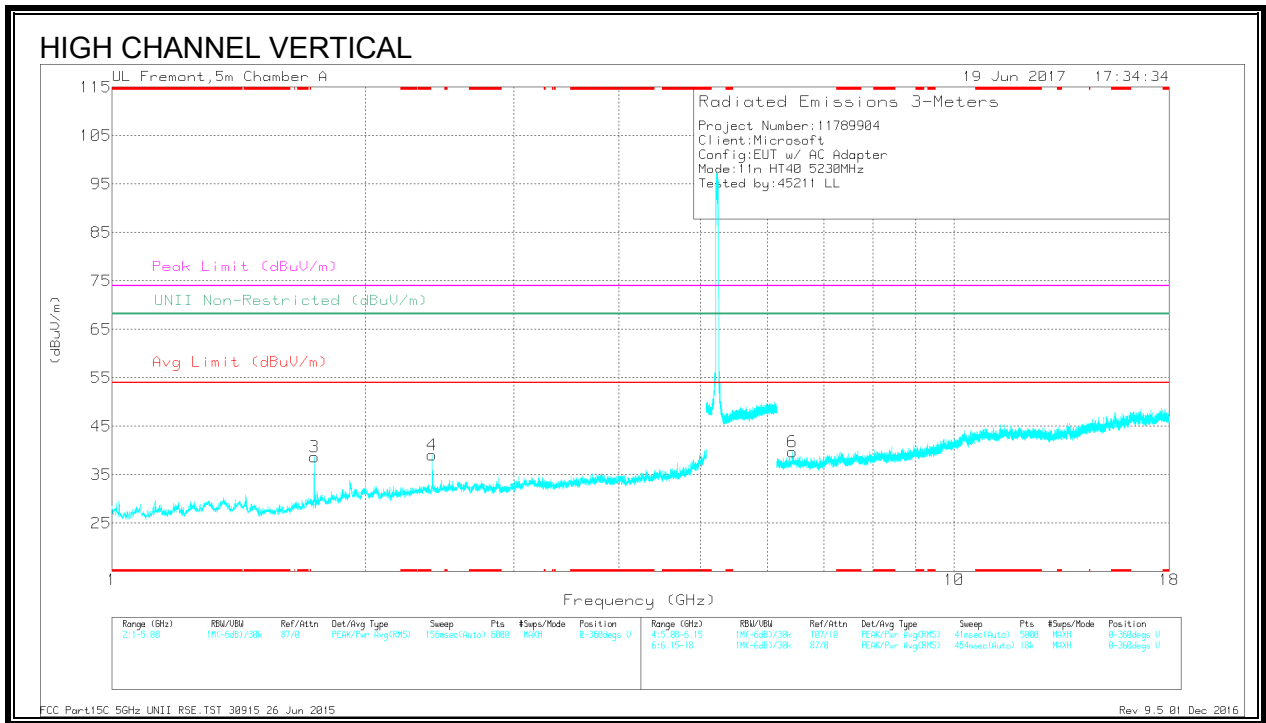
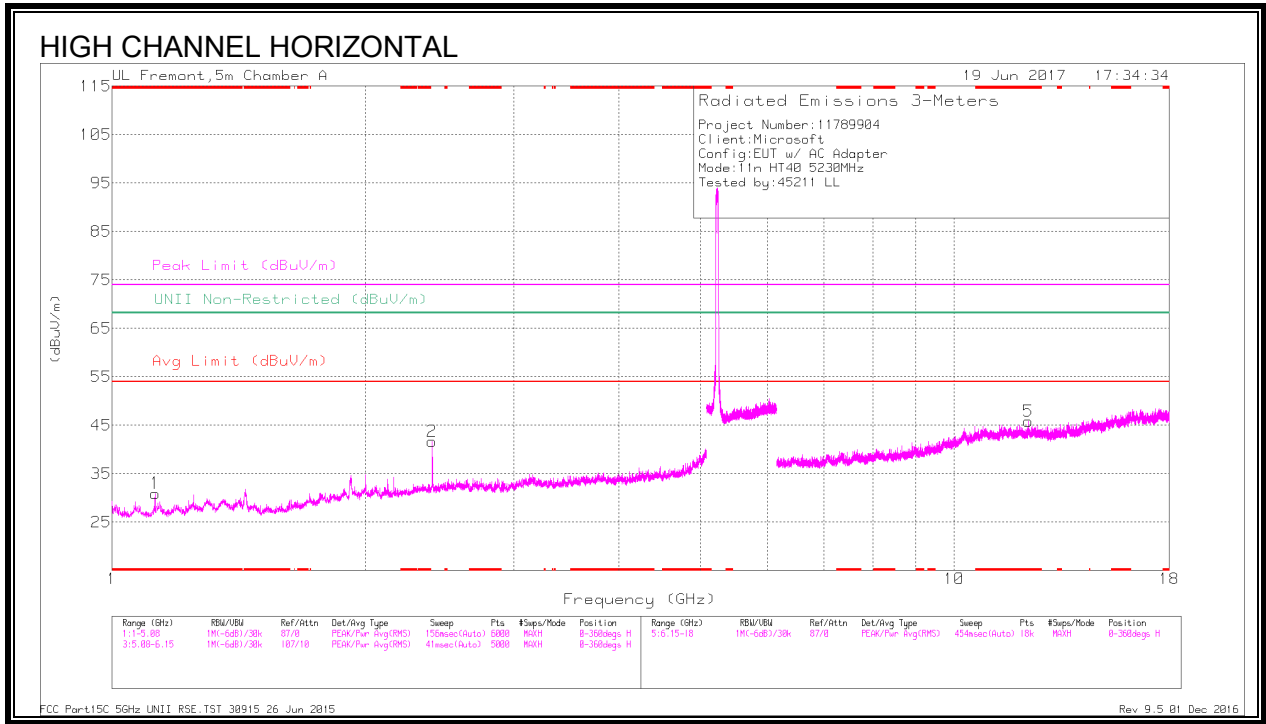
Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (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 |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 4 | 1.919 | 49.7 | PK-U | 31.3 | -33.3 | 47.7 | - | - | - | - | 68.2 | -20.5 | 214 | 101 | V |
| 2 | 1.921 | 52.87 | PK-U | 31.3 | -33.3 | 50.87 | - | - | - | - | 68.2 | -17.33 | 354 | 107 | H |
| 1 | 2.4 | 48.24 | PK-U | 32.1 | -32.3 | 48.04 | - | - | - | - | 68.2 | -20.16 | 136 | 224 | H |
| 3 | 2.4 | 45.33 | PK-U | 32.1 | -32.2 | 45.23 | - | - | - | - | 68.2 | -22.97 | 271 | 233 | V |
| 6 | 9.855 | 32.91 | PK-U | 36.9 | -21.6 | 48.21 | - | - | - | - | 68.2 | -19.99 | 87 | 101 | V |
| 5 | 9.911 | 32.25 | PK-U | 36.9 | -21.6 | 47.55 | - | - | - | - | 68.2 | -20.65 | 146 | 113 | H |

PK-U - U-NII: Maximum Peak



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (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 | * 1.125 | 42.17 | PK-U | 28 | -33.8 | 36.37 | - | - | 74 | -37.63 | - | - | 32 | 110 | H |
| | * 1.125 | 34.01 | ADR | 28 | -33.8 | 28.21 | 54 | -25.79 | - | - | - | - | 32 | 110 | H |
| 5 | * 12.244 | 32.25 | PK-U | 38.8 | -20.1 | 50.95 | - | - | 74 | -23.05 | - | - | 85 | 101 | H |
| | * 12.241 | 20.45 | ADR | 38.8 | -20.1 | 39.15 | 54 | -14.85 | - | - | - | - | 85 | 101 | H |
| 3 | 1.74 | 39.11 | PK-U | 29.7 | -32.8 | 36.01 | - | - | - | - | 68.2 | -32.19 | 204 | 171 | V |
| 2 | 2.4 | 46.67 | PK-U | 32.1 | -32.2 | 46.57 | - | - | - | - | 68.2 | -21.63 | 352 | 104 | H |
| 4 | 2.4 | 43.92 | PK-U | 32.1 | -32.2 | 43.82 | - | - | - | - | 68.2 | -24.38 | 123 | 101 | V |
| 6 | 6.421 | 34.93 | PK-U | 35.5 | -25.4 | 45.03 | - | - | - | - | 68.2 | -23.17 | 37 | 101 | V |

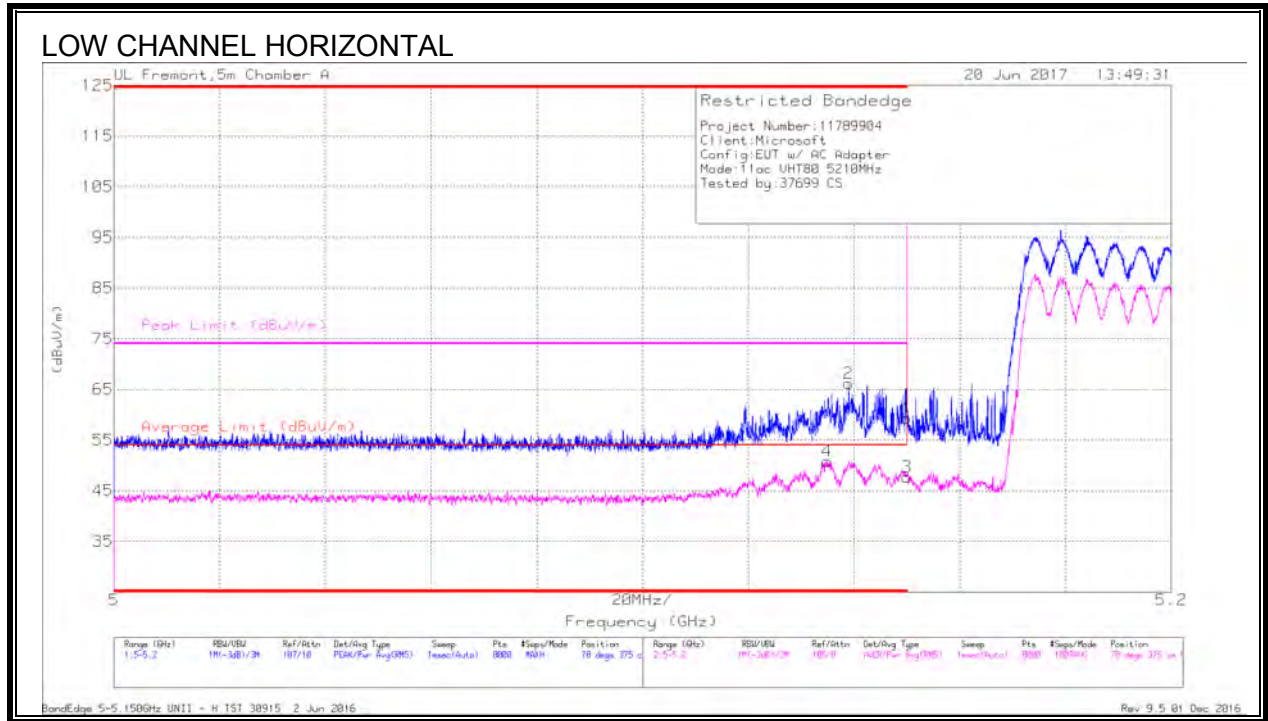
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.4. 11ac VHT80 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

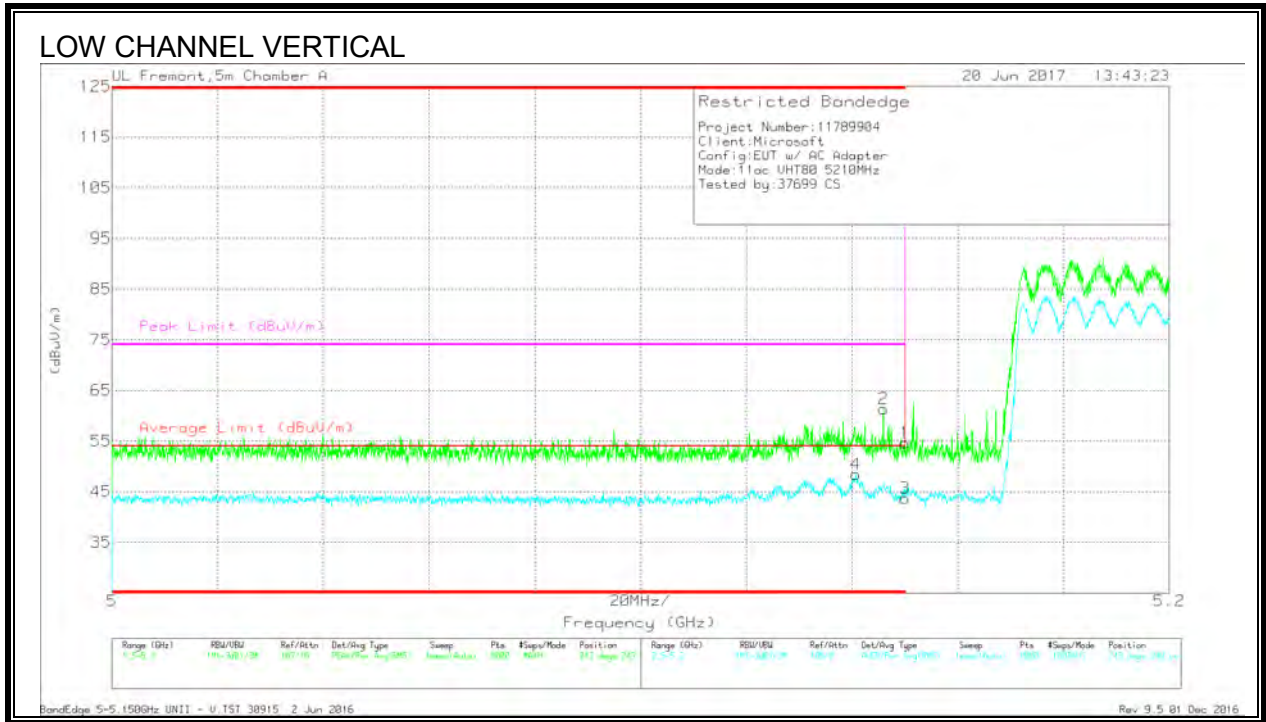


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.15 | 44 | Pk | 34.1 | -18.7 | 59.4 | - | - | 74 | -14.6 | 78 | 375 | H |
| 2 | * 5.139 | 50.64 | Pk | 34.1 | -18.6 | 66.14 | - | - | 74 | -7.86 | 78 | 375 | H |
| 3 | * 5.15 | 32.27 | RMS | 34.1 | -18.7 | 47.67 | 54 | -6.33 | - | - | 78 | 375 | H |
| 4 | * 5.135 | 35.34 | RMS | 34.1 | -18.6 | 50.84 | 54 | -3.16 | - | - | 78 | 375 | H |

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

Pk - Peak detector

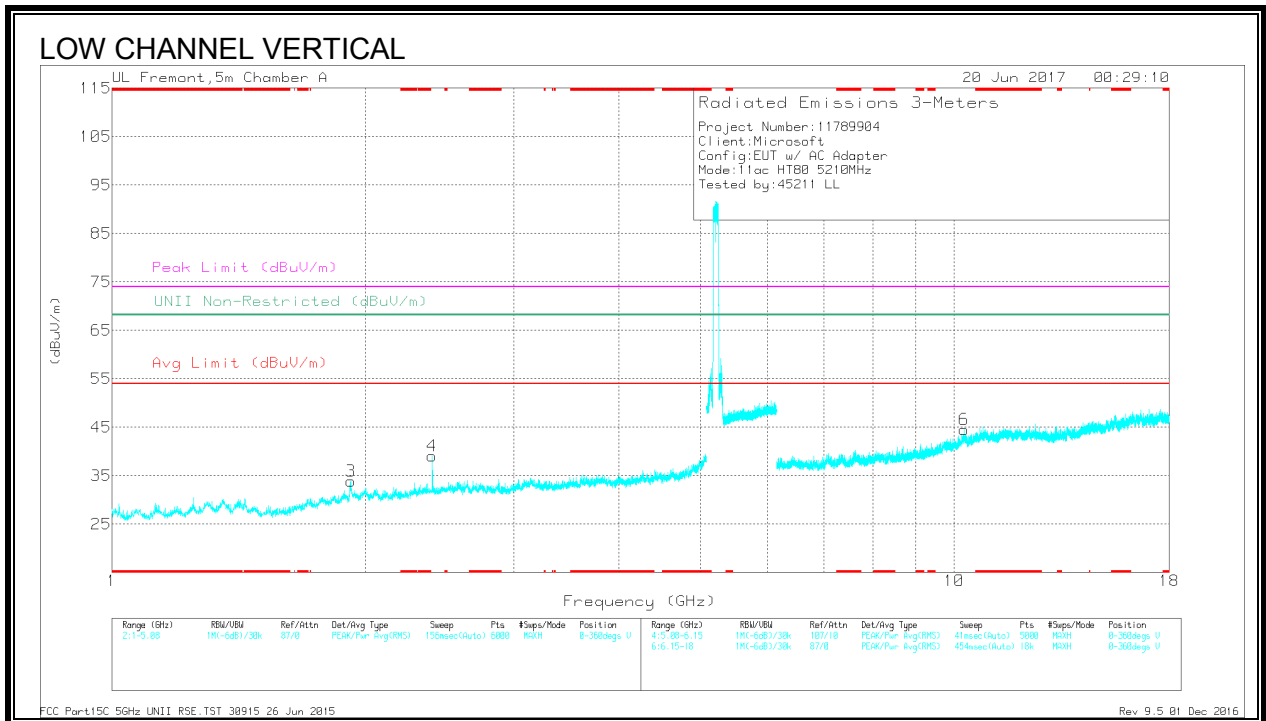
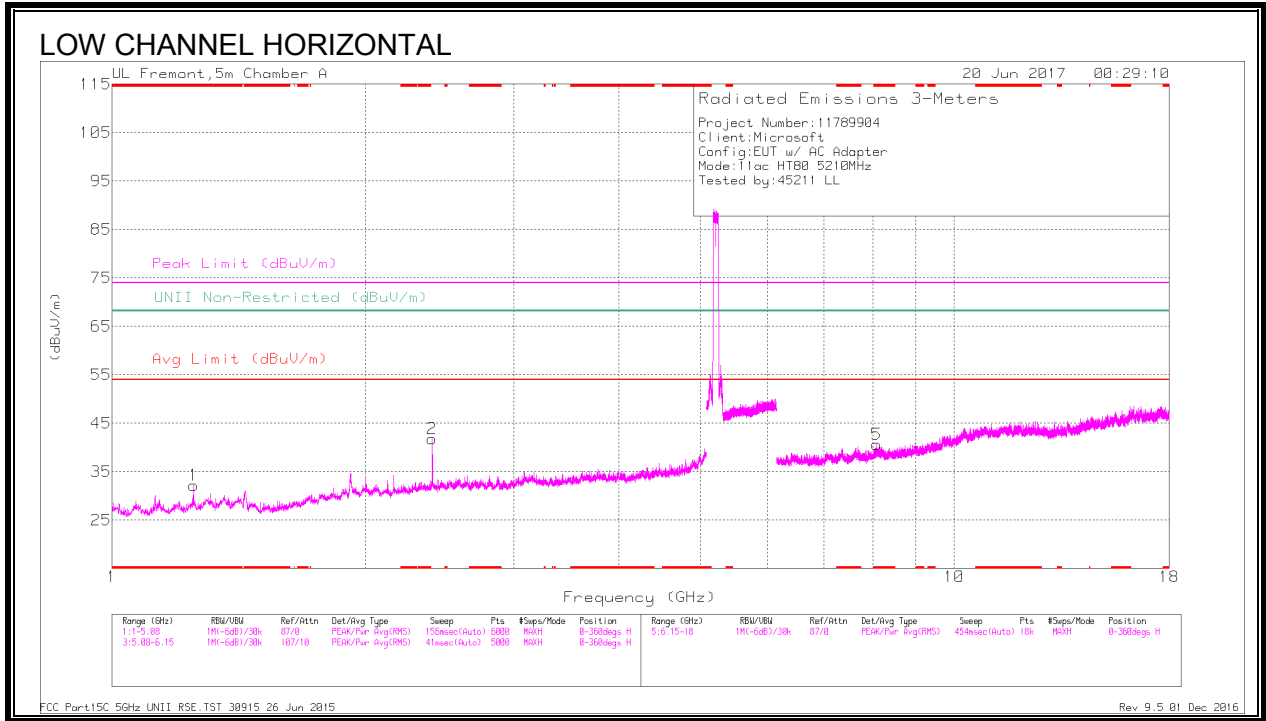
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.15 | 39.26 | Pk | 34.1 | -18.7 | 54.66 | - | - | 74 | -19.34 | 243 | 249 | V |
| 2 | * 5.146 | 45.86 | Pk | 34.1 | -18.6 | 61.36 | - | - | 74 | -12.64 | 243 | 249 | V |
| 3 | * 5.15 | 28.33 | RMS | 34.1 | -18.7 | 43.73 | 54 | -10.27 | - | - | 243 | 249 | V |
| 4 | * 5.141 | 32.96 | RMS | 34.1 | -18.6 | 48.46 | 54 | -5.54 | - | - | 243 | 249 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (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 | * 1.25 | 44.25 | PK-U | 29.1 | -34.3 | 39.05 | - | - | 74 | -34.95 | - | - | 259 | 104 | H |
| | * 1.25 | 35.55 | ADR | 29.1 | -34.3 | 30.35 | 54 | -23.65 | - | - | - | - | 259 | 104 | H |
| 5 | * 8.093 | 33.57 | PK-U | 35.6 | -23.1 | 46.07 | - | - | 74 | -27.93 | - | - | 323 | 102 | H |
| | * 8.09 | 21.84 | ADR | 35.6 | -23.2 | 34.24 | 54 | -19.76 | - | - | - | - | 323 | 102 | H |
| 3 | 1.921 | 49.17 | PK-U | 31.3 | -33.3 | 47.17 | - | - | - | - | 68.2 | -21.03 | 209 | 105 | V |
| 2 | 2.4 | 47.58 | PK-U | 32.1 | -32.2 | 47.48 | - | - | - | - | 68.2 | -20.72 | 351 | 241 | H |
| 4 | 2.4 | 45.78 | PK-U | 32.1 | -32.2 | 45.68 | - | - | - | - | 68.2 | -22.52 | 232 | 263 | V |
| 6 | 10.276 | 32.38 | PK-U | 37.2 | -19.5 | 50.08 | - | - | - | - | 68.2 | -18.12 | 276 | 102 | V |

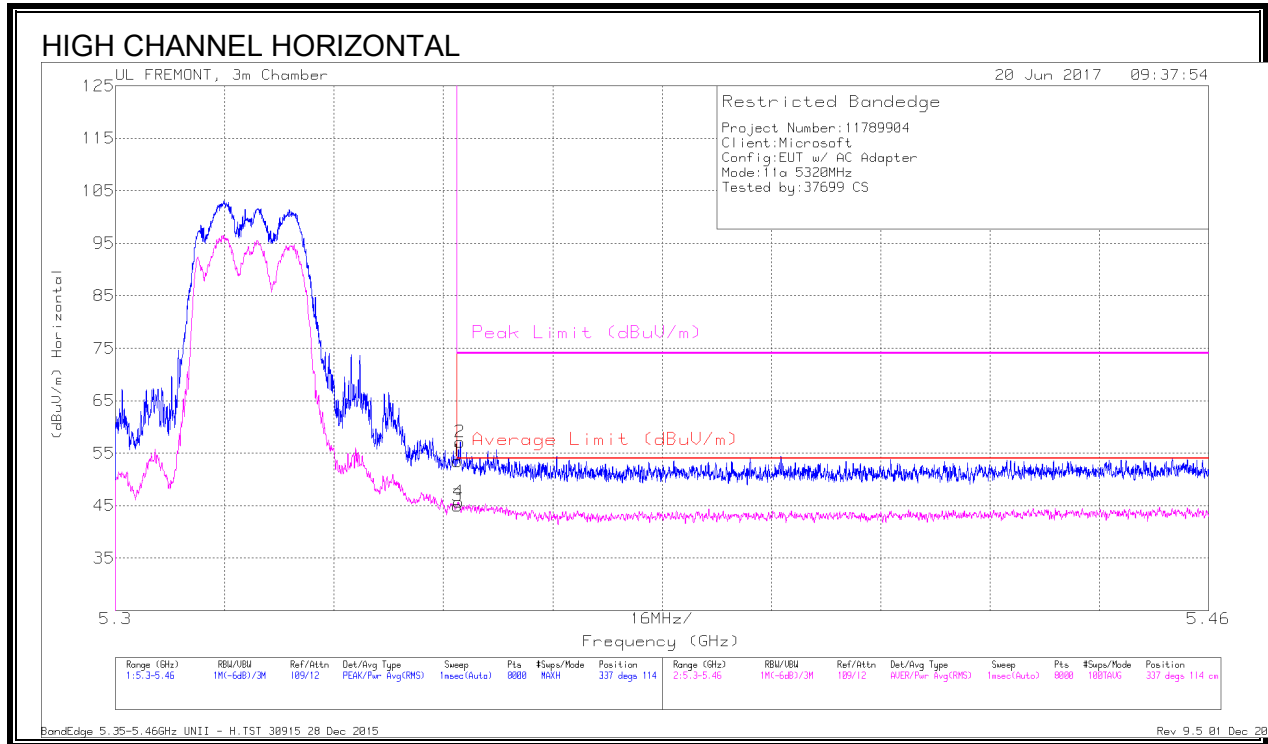
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

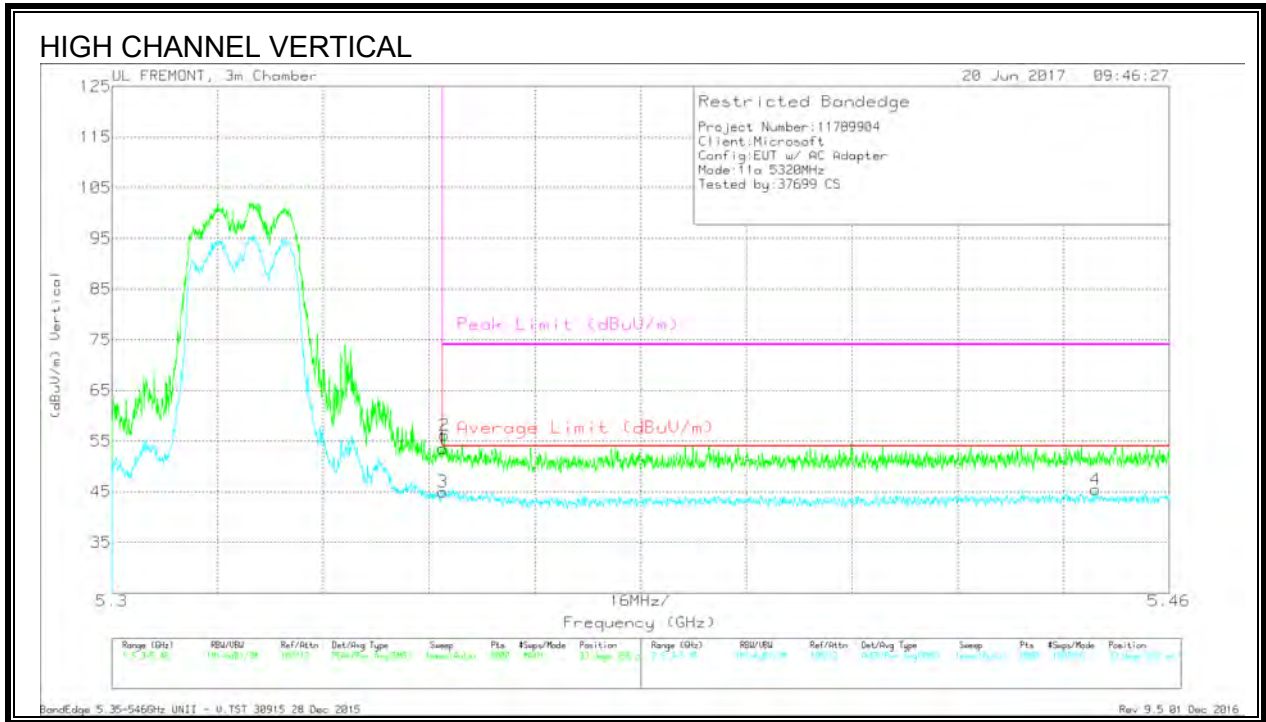
10.1.5. 11a 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.35 | 38.96 | Pk | 34.3 | -19.8 | 53.46 | - | - | 74 | -20.54 | 337 | 114 | H |
| 2 | 5.35 | 42.74 | Pk | 34.3 | -19.9 | 57.14 | - | - | 74 | -16.86 | 337 | 114 | H |
| 3 | 5.35 | 30.46 | RMS | 34.3 | -19.8 | 44.96 | 54 | -9.04 | - | - | 337 | 114 | H |
| 4 | 5.35 | 31.34 | RMS | 34.3 | -19.9 | 45.74 | 54 | -8.26 | - | - | 337 | 114 | H |

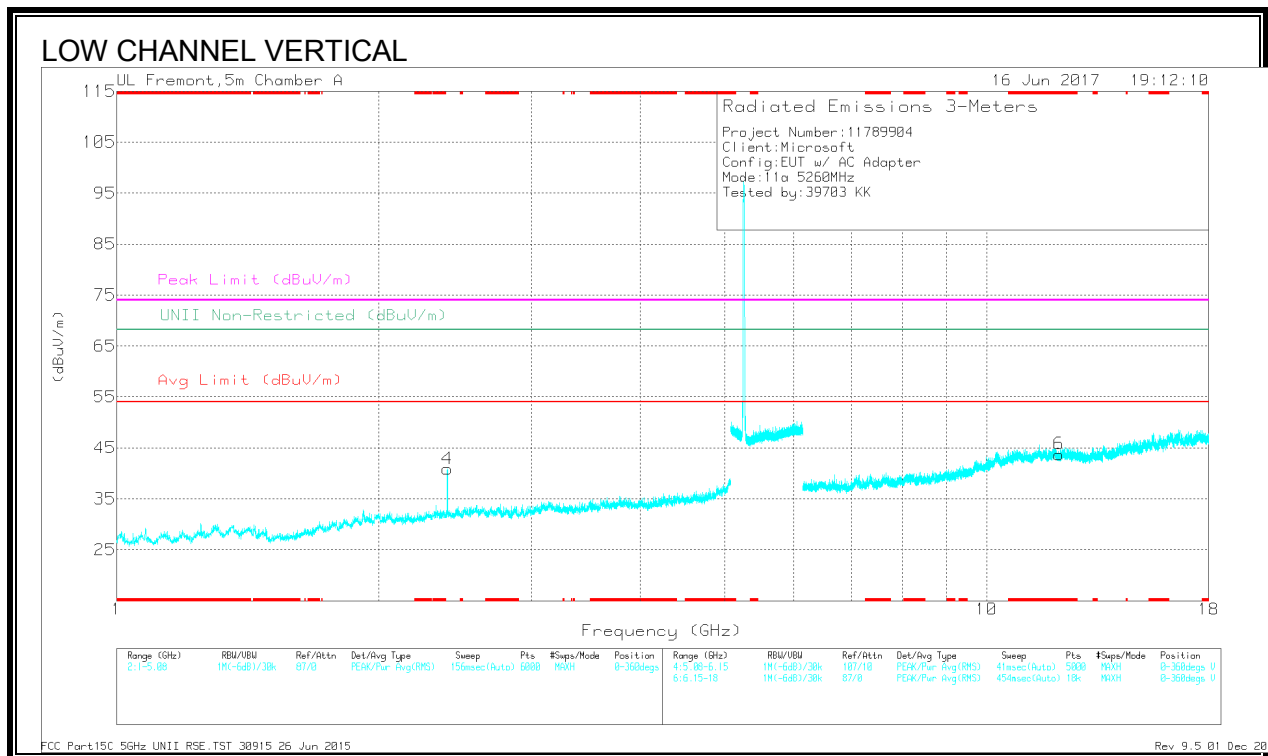
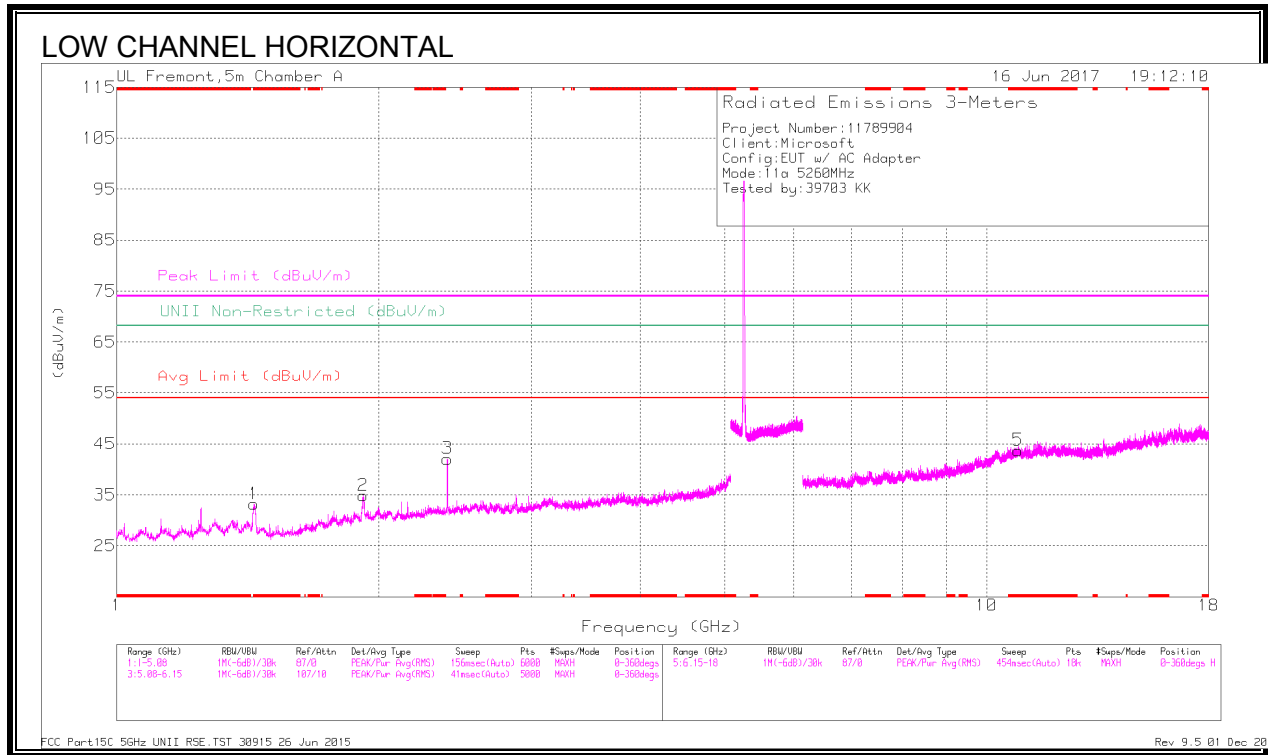
Pk - Peak detector
 RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.35 | 39.02 | Pk | 34.3 | -19.8 | 53.52 | - | - | 74 | -20.48 | 33 | 356 | V |
| 2 | 5.35 | 41.74 | Pk | 34.3 | -19.9 | 56.14 | - | - | 74 | -17.86 | 33 | 356 | V |
| 3 | 5.35 | 30.51 | RMS | 34.3 | -19.8 | 45.01 | 54 | -8.99 | - | - | 33 | 356 | V |
| 4 | 5.449 | 30.8 | RMS | 34.5 | -19.9 | 45.4 | 54 | -8.6 | - | - | 33 | 356 | V |

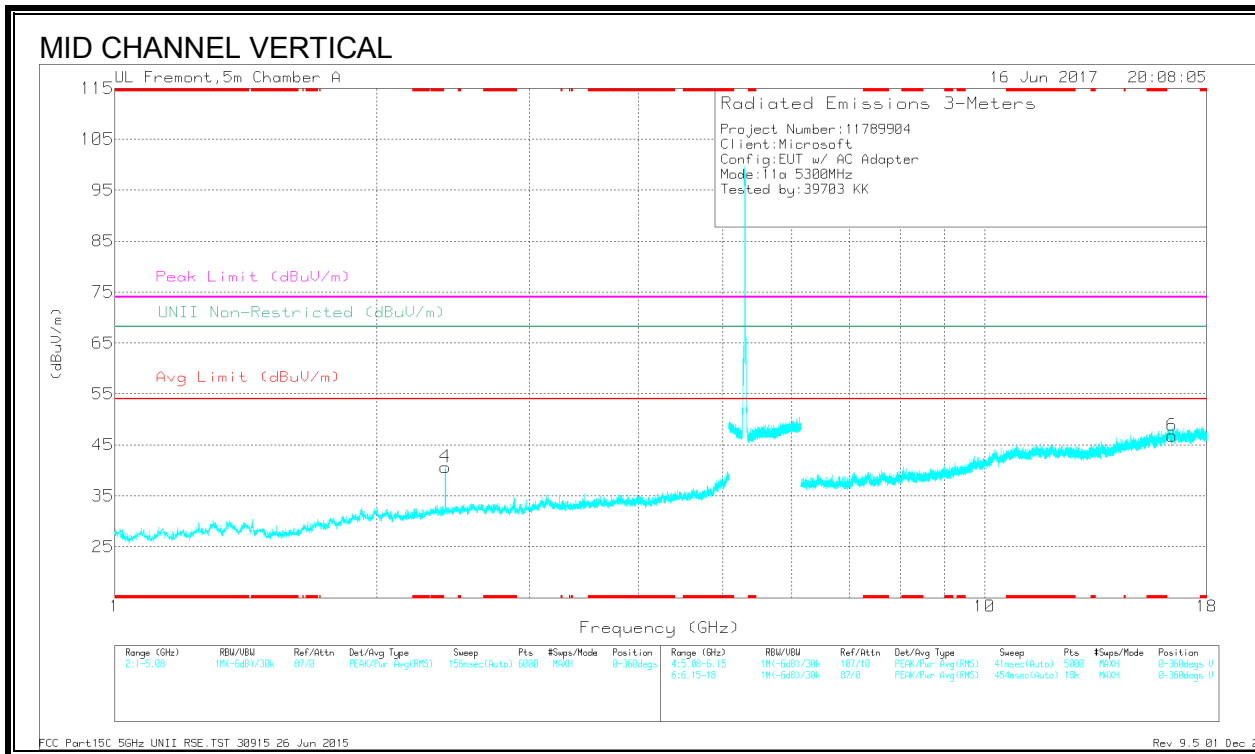
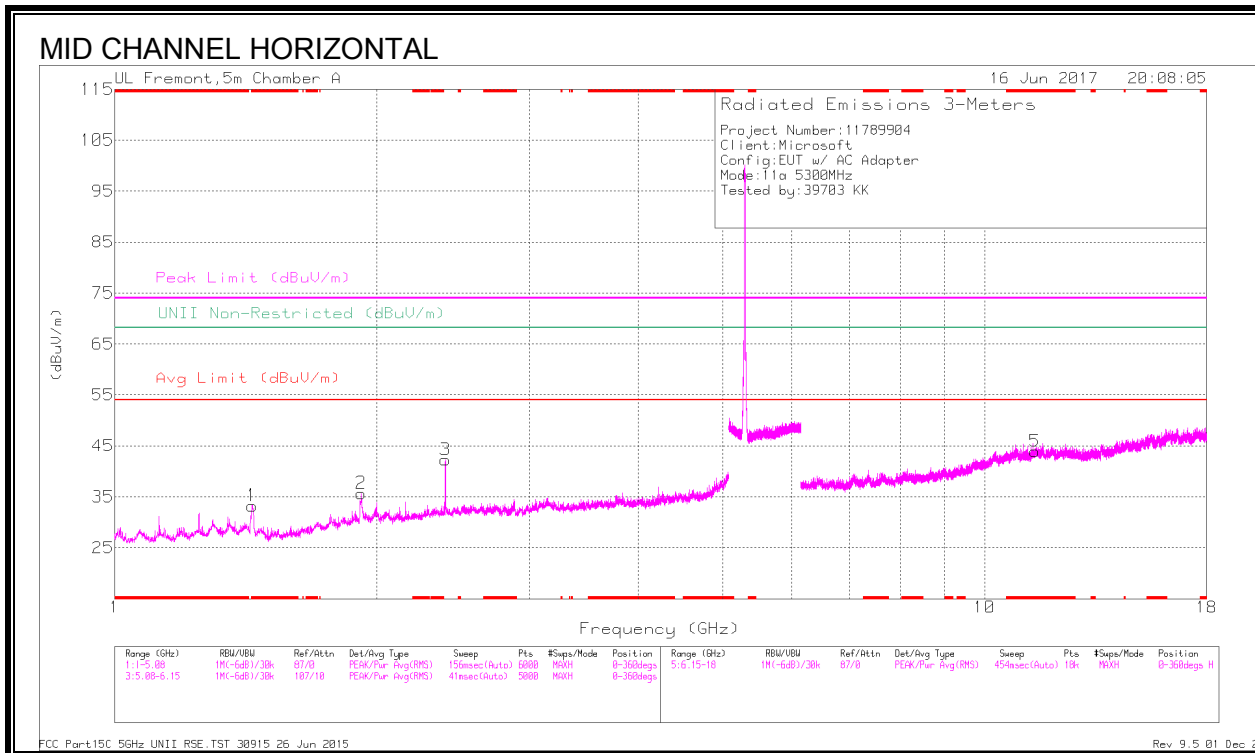
Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filt/Pad (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 | * 1.441 | 51.13 | PK-U | 28.8 | -33.6 | 46.33 | - | - | 74 | -27.67 | - | - | 195 | 104 | H |
| | * 1.44 | 32.23 | ADR | 28.8 | -33.6 | 27.43 | 54 | -26.57 | - | - | - | - | 195 | 104 | H |
| 5 | * 10.865 | 31.75 | PK-U | 37.9 | -19.6 | 50.15 | - | - | 74 | -23.85 | - | - | 172 | 101 | H |
| | * 10.863 | 20.92 | ADR | 37.9 | -19.6 | 39.22 | 54 | -14.78 | - | - | - | - | 172 | 101 | H |
| 6 | * 12.117 | 31.97 | PK-U | 38.7 | -20.6 | 50.07 | - | - | 74 | -23.93 | - | - | 172 | 101 | V |
| | * 12.114 | 21.1 | ADR | 38.7 | -20.6 | 39.3 | 54 | -14.7 | - | - | - | - | 172 | 101 | V |
| 2 | 1.92 | 50.91 | PK-U | 31.3 | -33.3 | 48.91 | - | - | - | - | 68.2 | -19.29 | 170 | 202 | H |
| | 1.92 | 34.98 | ADR | 31.3 | -33.3 | 32.98 | - | - | - | - | - | - | 170 | 202 | H |
| 3 | 2.4 | 47.45 | PK-U | 32.1 | -32.3 | 47.25 | - | - | - | - | 68.2 | -20.95 | 170 | 149 | H |
| | 2.4 | 42.18 | ADR | 32.1 | -32.3 | 41.98 | - | - | - | - | - | - | 170 | 149 | H |
| 4 | 2.4 | 45.66 | PK-U | 32.1 | -32.3 | 45.46 | - | - | - | - | 68.2 | -22.74 | 172 | 101 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

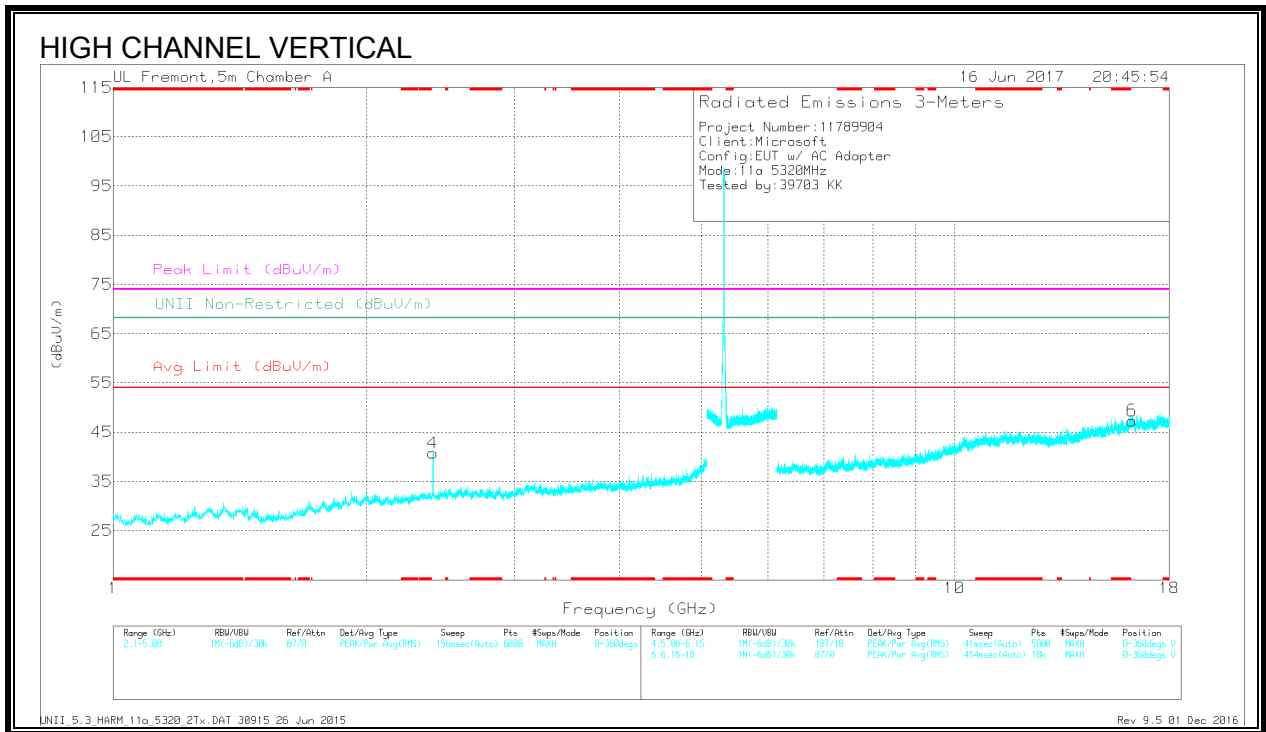
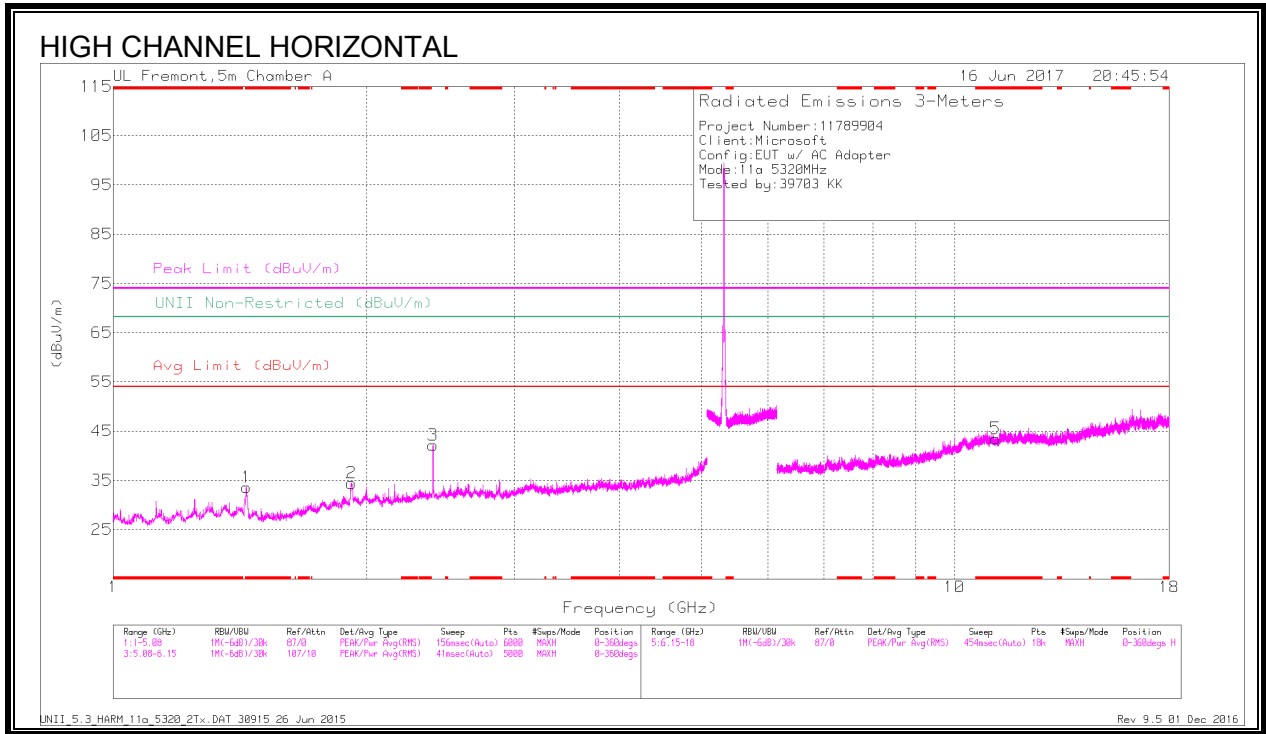


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.44 | 45.79 | PK-U | 28.8 | -33.6 | 40.99 | - | - | 74 | -33.01 | - | - | 0 | 101 | H |
| | * 1.44 | 29.53 | ADR | 28.8 | -33.6 | 24.73 | 54 | -29.27 | - | - | - | - | 0 | 101 | H |
| 5 | * 11.421 | 31.89 | PK-U | 38 | -19.7 | 50.19 | - | - | 74 | -23.81 | - | - | 169 | 101 | H |
| | * 11.424 | 21.25 | ADR | 38 | -19.7 | 39.55 | 54 | -14.45 | - | - | - | - | 169 | 101 | H |
| 2 | 1.92 | 52.49 | PK-U | 31.3 | -33.3 | 50.49 | - | - | - | - | 68.2 | -17.71 | 164 | 149 | H |
| 3 | 2.4 | 48.41 | PK-U | 32.1 | -32.3 | 48.21 | - | - | - | - | 68.2 | -19.99 | 169 | 149 | H |
| 4 | 2.401 | 46.67 | PK-U | 32.1 | -32.2 | 46.57 | - | - | - | - | 68.2 | -21.63 | 169 | 101 | V |
| 6 | 16.423 | 32.1 | PK-U | 41.6 | -21 | 52.7 | - | - | - | - | 68.2 | -15.5 | 169 | 101 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (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 | * 1.441 | 53.32 | PK-U | 28.8 | -33.6 | 48.52 | - | - | 74 | -25.48 | - | - | 217 | 198 | H |
| | * 1.44 | 34.13 | ADR | 28.8 | -33.6 | 29.33 | 54 | -24.67 | - | - | - | - | 217 | 198 | H |
| 5 | * 11.186 | 31.91 | PK-U | 37.8 | -20 | 49.71 | - | - | 74 | -24.29 | - | - | 170 | 102 | H |
| | * 11.186 | 21.05 | ADR | 37.8 | -20 | 38.85 | 54 | -15.15 | - | - | - | - | 170 | 102 | H |
| 2 | 1.921 | 52.31 | PK-U | 31.3 | -33.3 | 50.31 | - | - | - | - | 68.2 | -17.89 | 175 | 216 | H |
| 4 | 2.399 | 47.15 | PK-U | 32.1 | -32.3 | 46.95 | - | - | - | - | 68.2 | -21.25 | 170 | 102 | V |
| 3 | 2.4 | 48.37 | PK-U | 32.1 | -32.2 | 48.27 | - | - | - | - | 68.2 | -19.93 | 170 | 149 | H |
| 6 | 16.26 | 32.36 | PK-U | 41.3 | -20.1 | 53.56 | - | - | - | - | 68.2 | -14.64 | 170 | 102 | V |

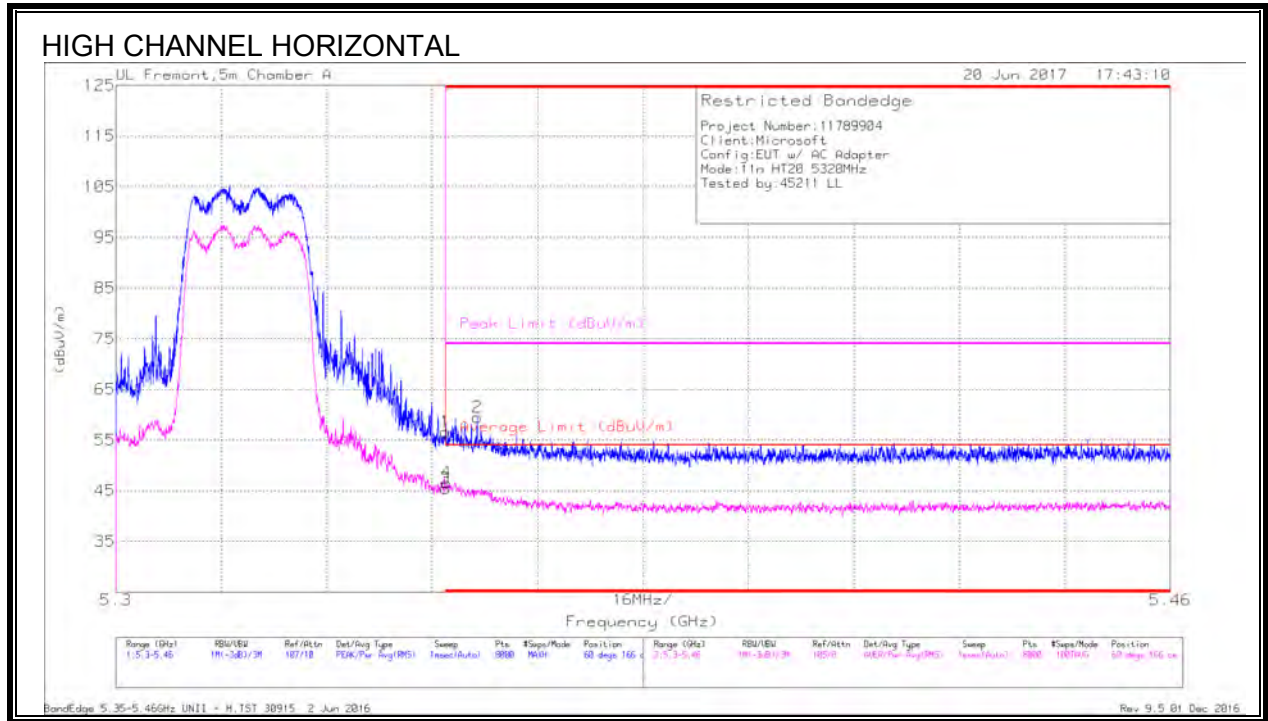
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.6. 11n HT20 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

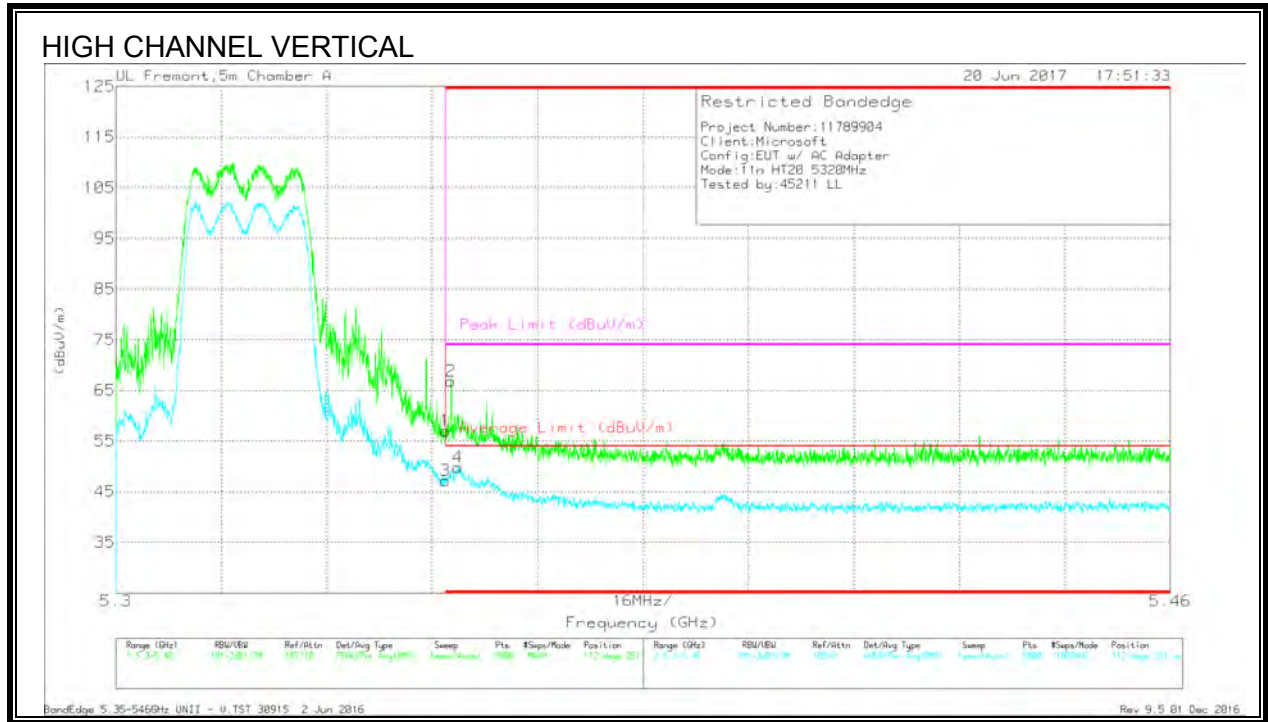


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 41.28 | Pk | 34.3 | -18.9 | 56.68 | - | - | 74 | -17.32 | 60 | 166 | H |
| 2 | * 5.355 | 44.01 | Pk | 34.3 | -18.8 | 59.51 | - | - | 74 | -14.49 | 60 | 166 | H |
| 3 | * 5.35 | 30 | RMS | 34.3 | -18.9 | 45.4 | 54 | -8.6 | - | - | 60 | 166 | H |
| 4 | * 5.35 | 31.22 | RMS | 34.3 | -18.9 | 46.62 | 54 | -7.38 | - | - | 60 | 166 | H |

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

Pk - Peak detector

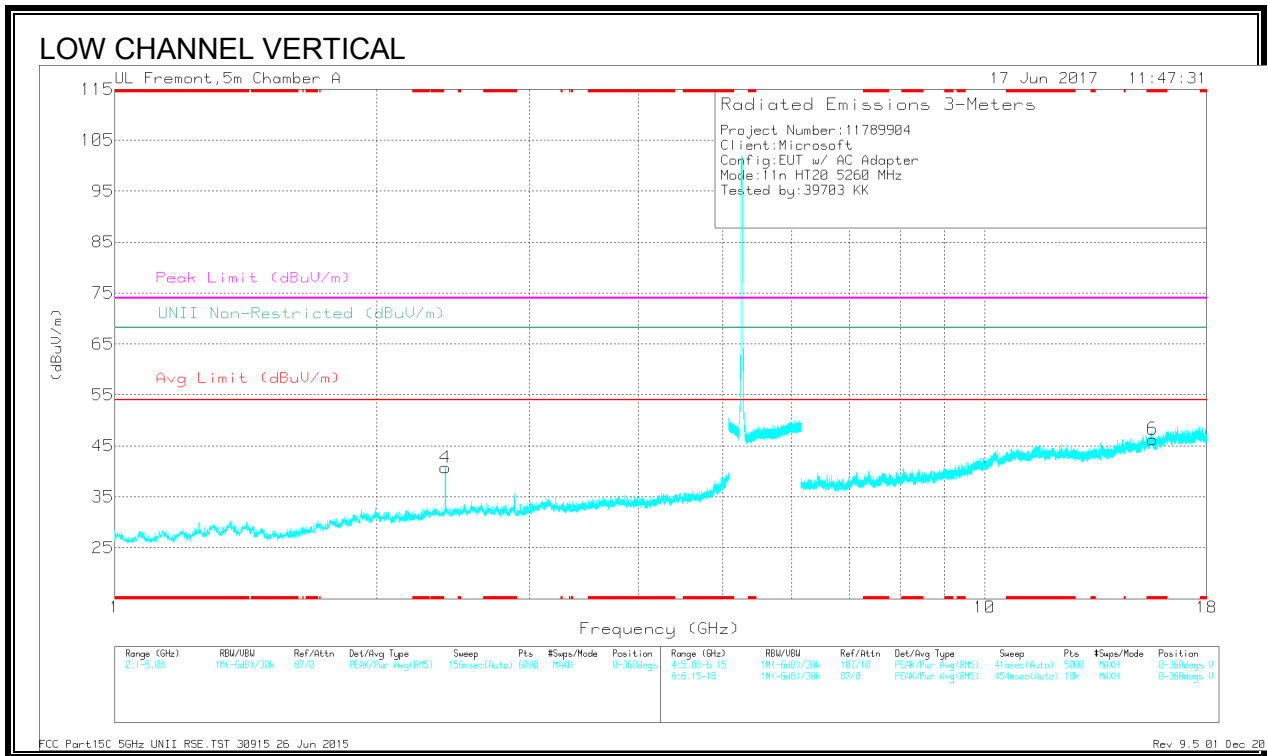
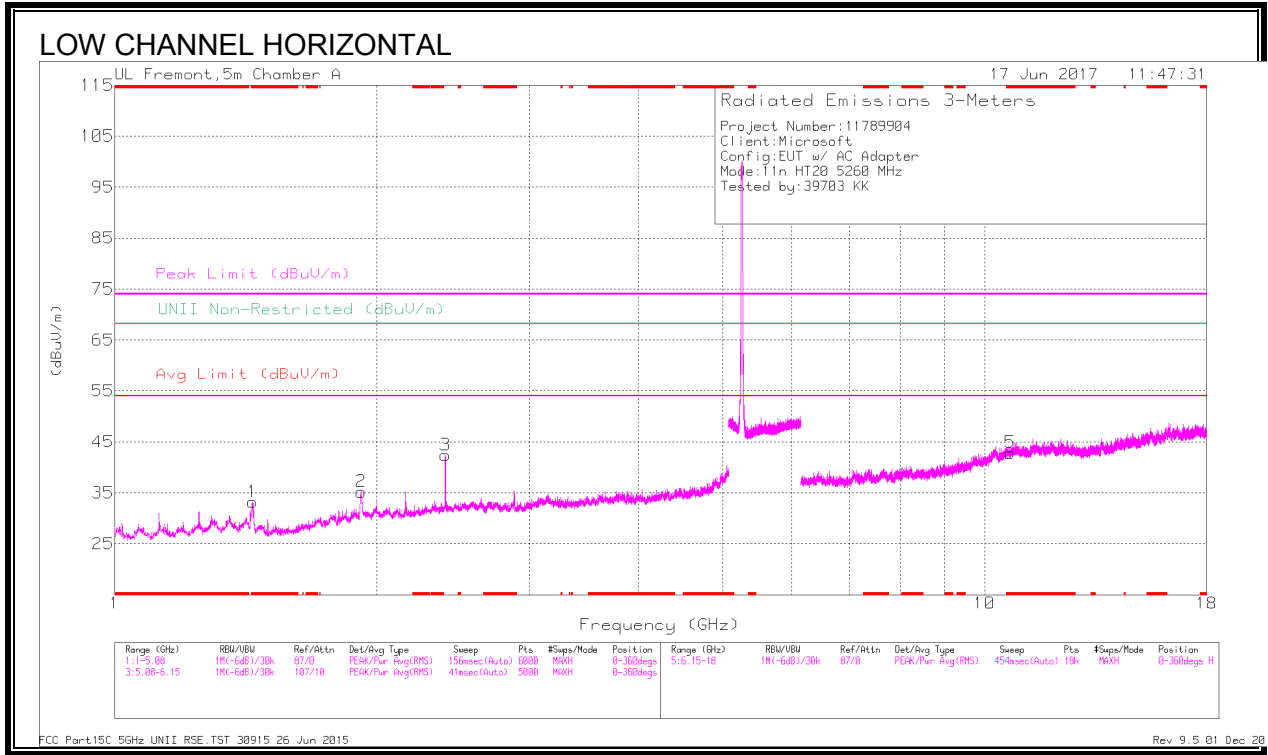
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 41.65 | Pk | 34.3 | -18.9 | 57.05 | - | - | 74 | -16.95 | 112 | 251 | V |
| 2 | * 5.351 | 51.38 | Pk | 34.3 | -18.9 | 66.78 | - | - | 74 | -7.22 | 112 | 251 | V |
| 3 | * 5.35 | 31.83 | RMS | 34.3 | -18.9 | 47.23 | 54 | -6.77 | - | - | 112 | 251 | V |
| 4 | * 5.352 | 34.37 | RMS | 34.3 | -18.9 | 49.77 | 54 | -4.23 | - | - | 112 | 251 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

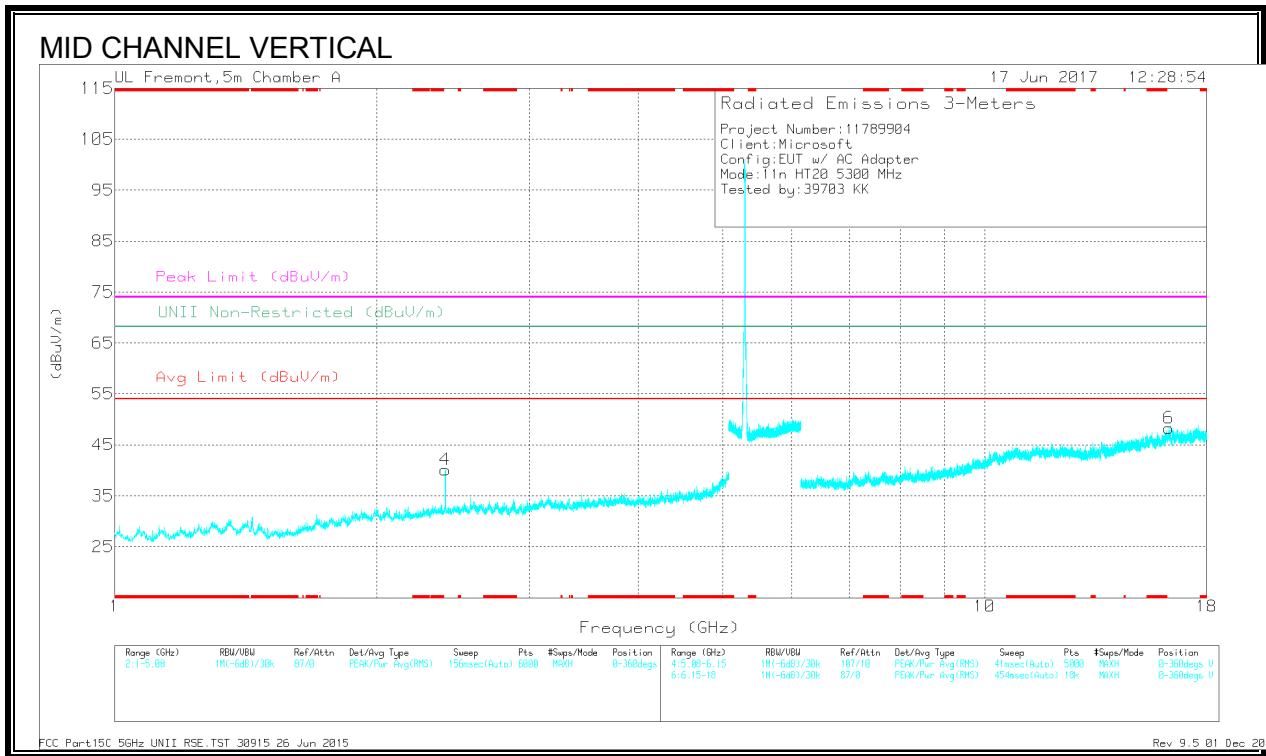
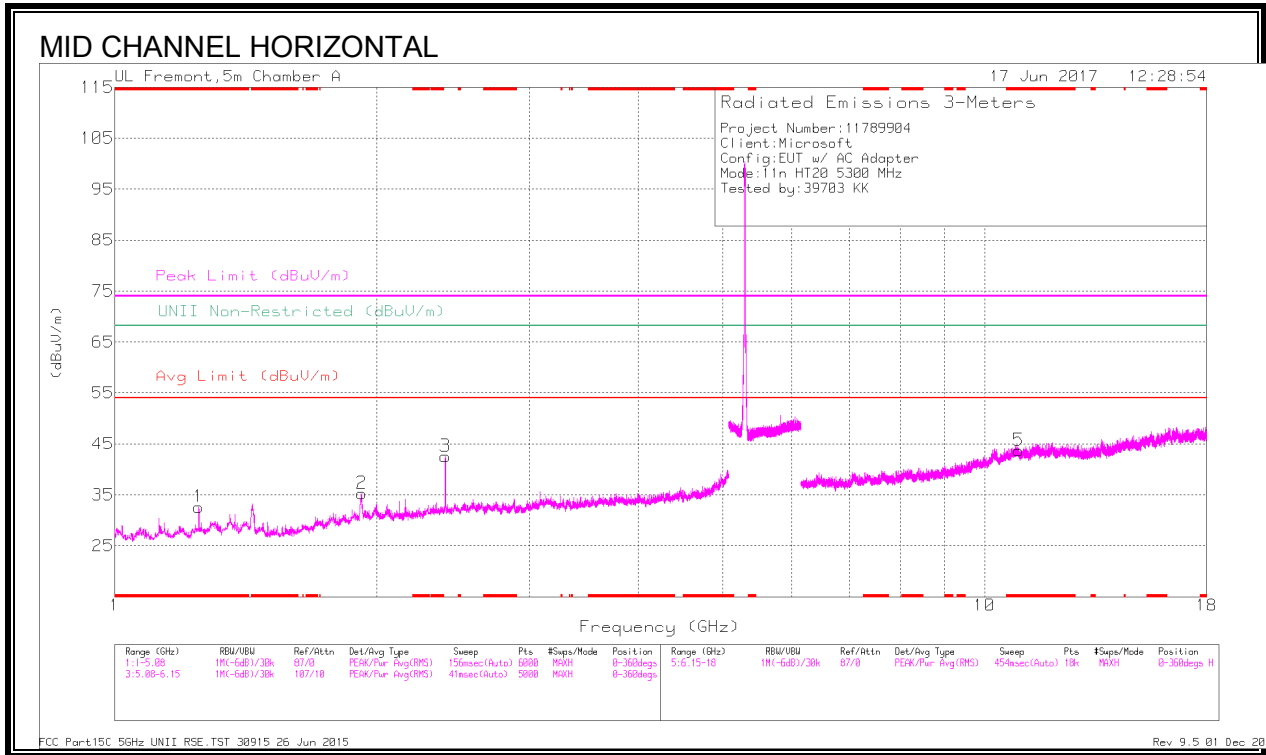


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/CbI/Filt/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.441 | 52.04 | PK-U | 28.8 | -33.6 | 47.24 | - | - | 74 | -26.76 | - | - | 207 | 247 | H |
| | * 1.44 | 32.66 | ADR | 28.8 | -33.6 | 27.86 | 54 | -26.14 | - | - | - | - | 207 | 247 | H |
| 5 | * 10.703 | 32.28 | PK-U | 37.9 | -20.8 | 49.38 | - | - | 74 | -24.62 | - | - | 170 | 101 | H |
| | * 10.704 | 21.45 | ADR | 37.9 | -20.8 | 38.55 | 54 | -15.45 | - | - | - | - | 170 | 101 | H |
| 6 | * 15.601 | 32.97 | PK-U | 40.4 | -20.2 | 53.17 | - | - | 74 | -20.83 | - | - | 170 | 200 | V |
| | * 15.602 | 21.33 | ADR | 40.4 | -20.2 | 41.53 | 54 | -12.47 | - | - | - | - | 170 | 200 | V |
| 2 | 1.919 | 52.67 | PK-U | 31.3 | -33.3 | 50.67 | - | - | - | - | 68.2 | -17.53 | 172 | 178 | H |
| 3 | 2.4 | 49.19 | PK-U | 32.1 | -32.3 | 48.99 | - | - | - | - | 68.2 | -19.21 | 169 | 116 | H |
| 4 | 2.4 | 45.21 | PK-U | 32.1 | -32.3 | 45.01 | - | - | - | - | 68.2 | -23.19 | 170 | 101 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

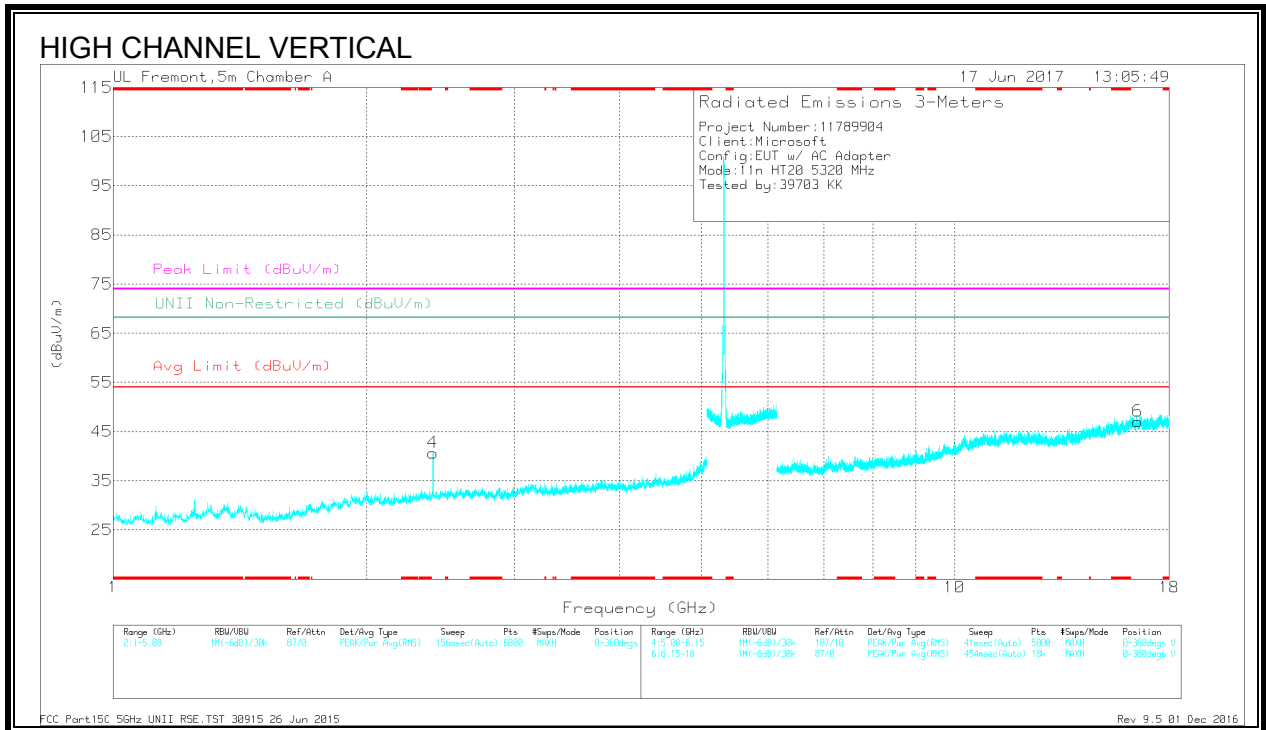
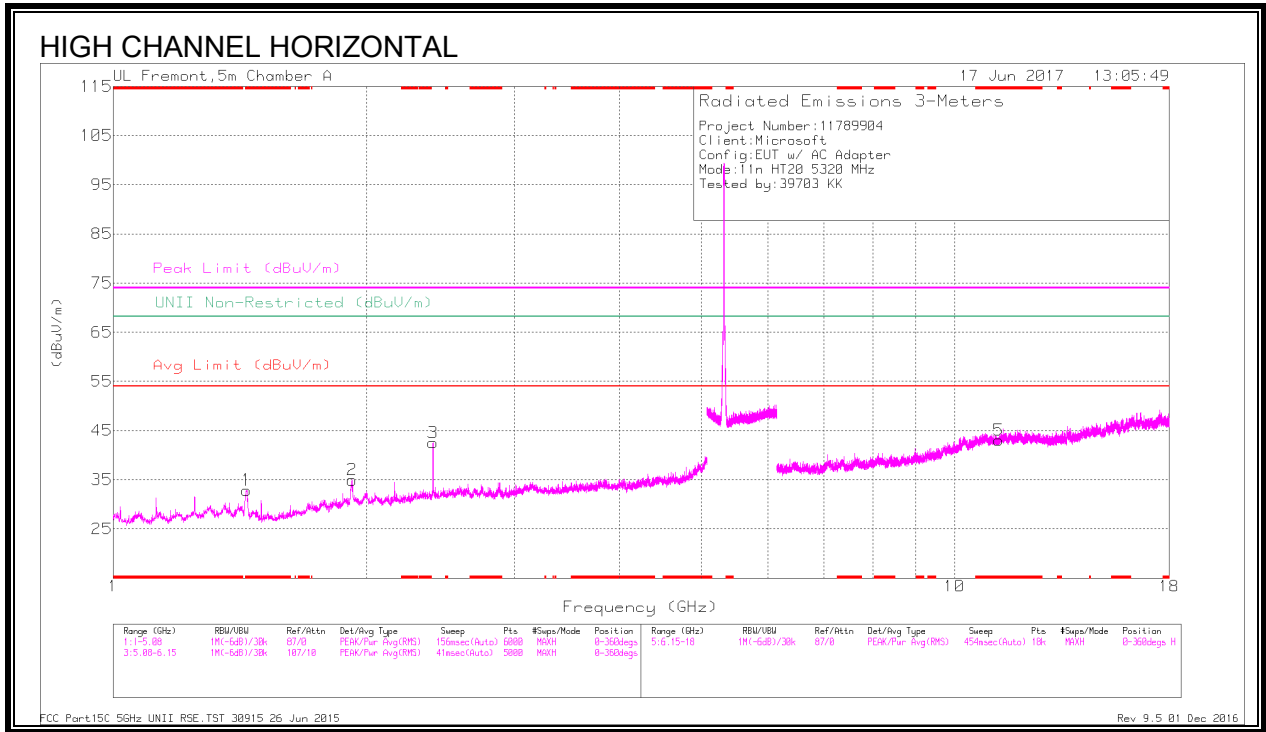


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.25 | 43.41 | PK-U | 29.1 | -34.3 | 38.21 | - | - | 74 | -35.79 | - | - | 158 | 196 | H |
| | * 1.25 | 35.36 | ADR | 29.1 | -34.3 | 30.16 | 54 | -23.84 | - | - | - | - | 158 | 196 | H |
| 5 | * 10.941 | 32.06 | PK-U | 37.8 | -19.7 | 50.16 | - | - | 74 | -23.84 | - | - | 169 | 103 | H |
| | * 10.941 | 21.22 | ADR | 37.8 | -19.7 | 39.32 | 54 | -14.68 | - | - | - | - | 169 | 103 | H |
| 2 | 1.922 | 47.54 | PK-U | 31.3 | -33.3 | 45.54 | - | - | - | - | 68.2 | -22.66 | 158 | 198 | H |
| 3 | 2.4 | 48.74 | PK-U | 32.1 | -32.3 | 48.54 | - | - | - | - | 68.2 | -19.66 | 169 | 118 | H |
| 4 | 2.4 | 45.58 | PK-U | 32.1 | -32.3 | 45.38 | - | - | - | - | 68.2 | -22.82 | 169 | 103 | V |
| 6 | 16.284 | 32.16 | PK-U | 41.3 | -19.9 | 53.56 | - | - | - | - | 68.2 | -14.64 | 169 | 103 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Radiated Emissions

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/F Itr/Pad (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 | * 1.441 | 45.29 | PK-U | 28.8 | -33.6 | 40.49 | - | - | 74 | -33.51 | - | - | 0 | 199 | H |
| | * 1.44 | 29.59 | ADR | 28.8 | -33.6 | 24.79 | 54 | -29.21 | - | - | - | - | 0 | 199 | H |
| 2 | 1.921 | 51.33 | PK-U | 31.3 | -33.3 | 49.33 | - | - | - | - | 68.2 | -18.87 | 165 | 131 | H |
| | 1.921 | 31.24 | ADR | 31.3 | -33.3 | 29.24 | - | - | - | - | - | - | 165 | 131 | H |
| 3 | 2.4 | 47.89 | PK-U | 32.1 | -32.2 | 47.79 | - | - | - | - | 68.2 | -20.41 | 169 | 180 | H |
| | 2.4 | 41.95 | ADR | 32.1 | -32.3 | 41.75 | - | - | - | - | - | - | 169 | 180 | H |
| 4 | 2.4 | 46.13 | PK-U | 32.1 | -32.3 | 45.93 | - | - | - | - | 68.2 | -22.27 | 171 | 101 | V |
| | 2.4 | 40.07 | ADR | 32.1 | -32.3 | 39.87 | - | - | - | - | - | - | 171 | 101 | V |
| 5 | * 11.287 | 32.23 | PK-U | 37.9 | -20 | 50.13 | - | - | 74 | -23.87 | - | - | 171 | 101 | H |
| | * 11.286 | 20.82 | ADR | 37.9 | -20 | 38.72 | 54 | -15.28 | - | - | - | - | 171 | 101 | H |
| 6 | 16.513 | 32.51 | PK-U | 41.7 | -20.8 | 53.41 | - | - | - | - | 68.2 | -14.79 | 262 | 101 | V |
| | 16.512 | 21.12 | ADR | 41.7 | -20.8 | 42.02 | - | - | - | - | - | - | 262 | 101 | V |

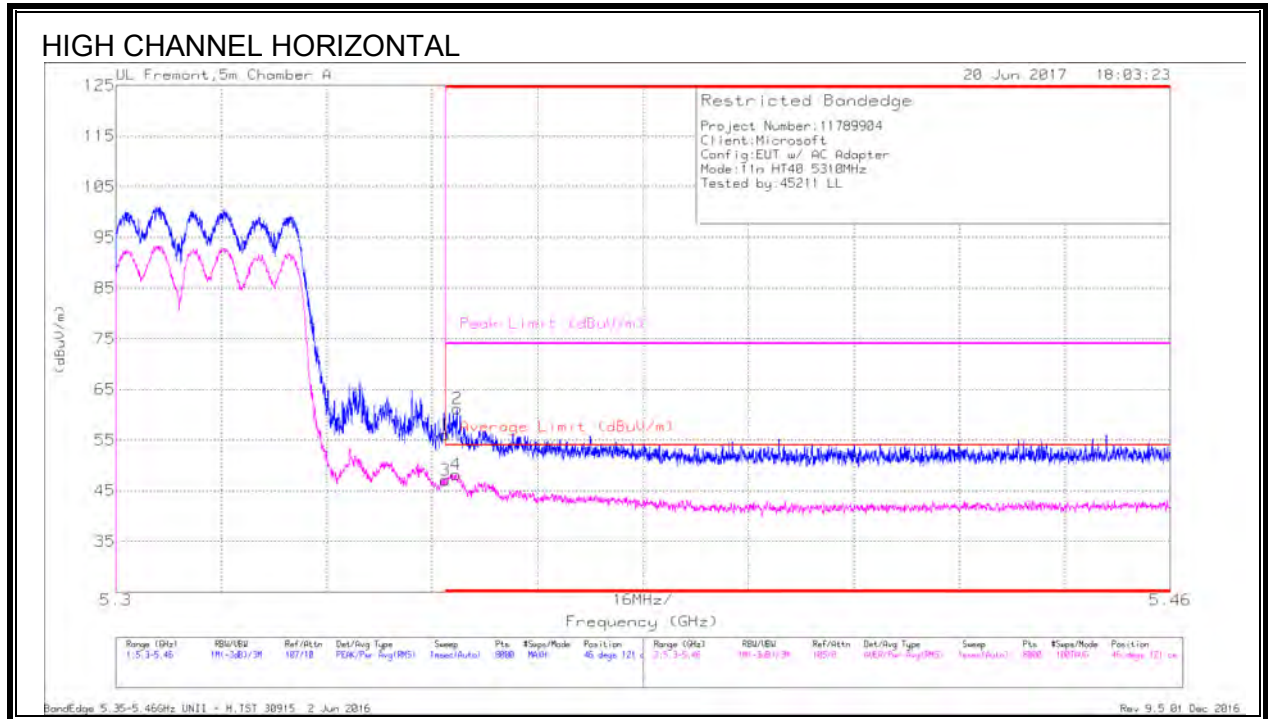
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.7. 11n HT40 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

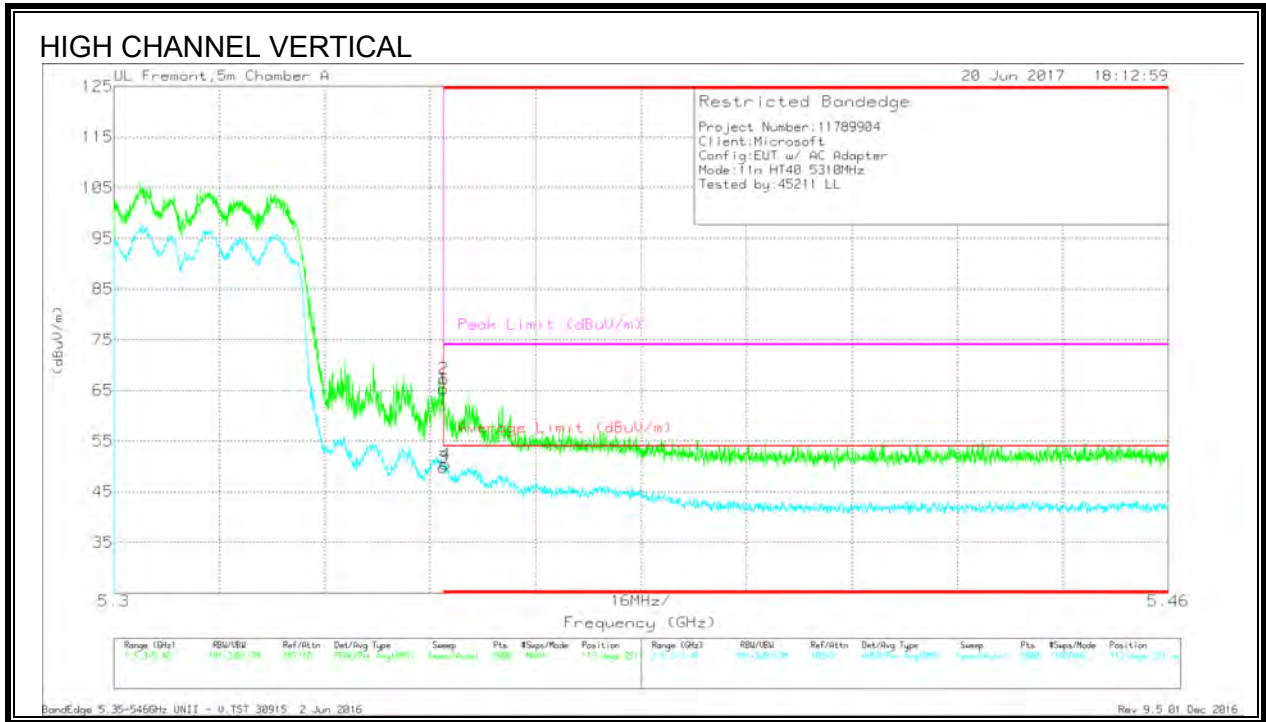


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 40.55 | Pk | 34.3 | -18.9 | 55.95 | - | - | 74 | -18.05 | 46 | 121 | H |
| 2 | * 5.352 | 45.87 | Pk | 34.3 | -18.9 | 61.27 | - | - | 74 | -12.73 | 46 | 121 | H |
| 3 | * 5.35 | 31.66 | RMS | 34.3 | -18.9 | 47.06 | 54 | -6.94 | - | - | 46 | 121 | H |
| 4 | * 5.352 | 32.82 | RMS | 34.3 | -18.9 | 48.22 | 54 | -5.78 | - | - | 46 | 121 | H |

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

Pk - Peak detector

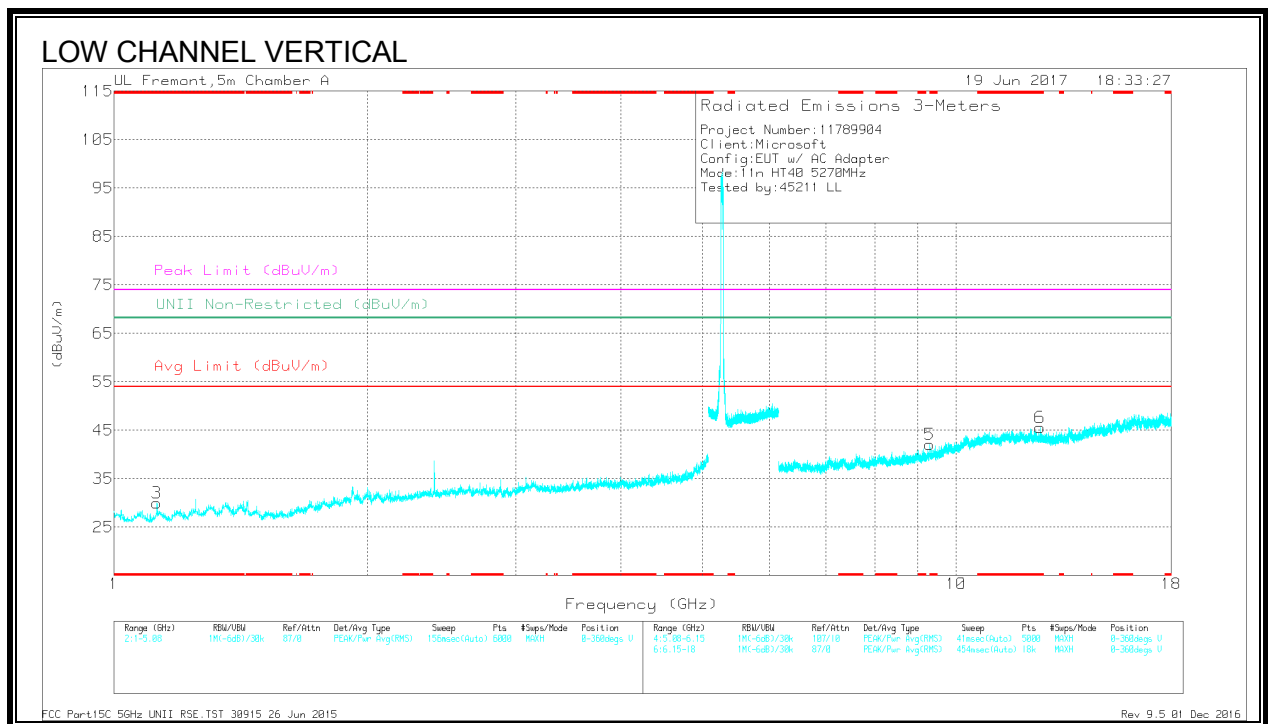
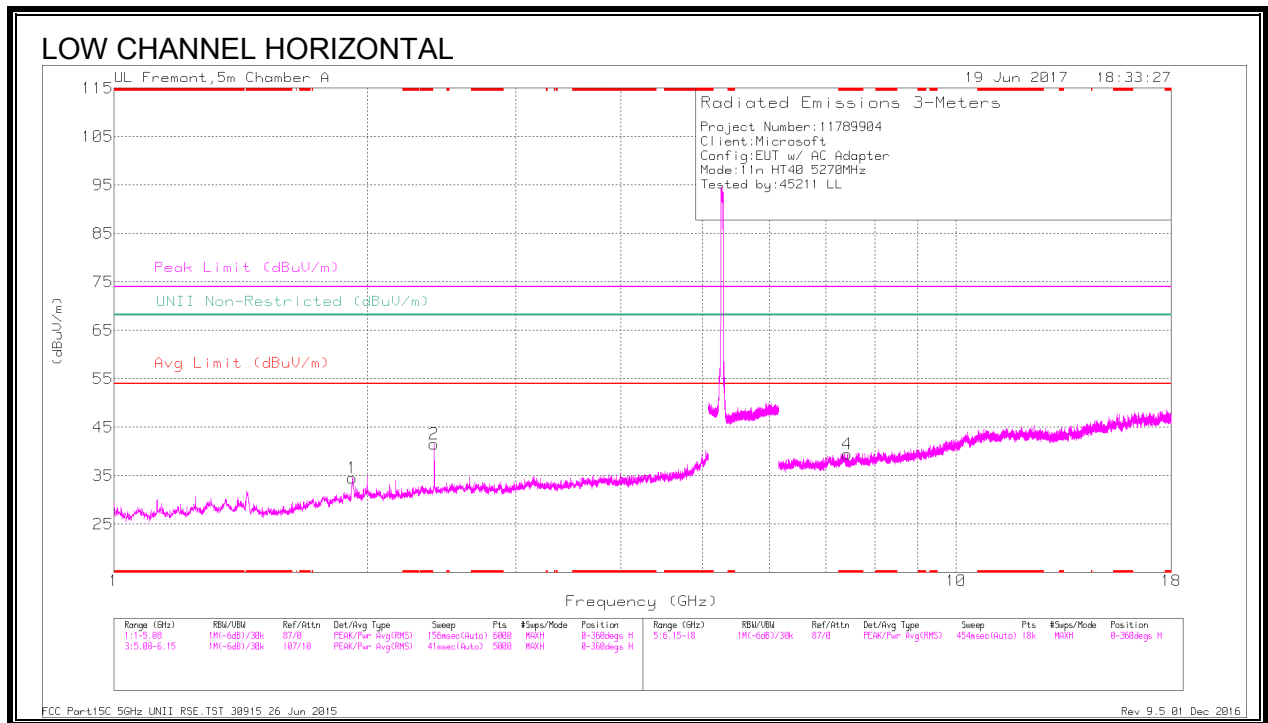
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 49.9 | Pk | 34.3 | -18.9 | 65.3 | - | - | 74 | -8.7 | 113 | 251 | V |
| 2 | * 5.35 | 51.87 | Pk | 34.3 | -18.9 | 67.27 | - | - | 74 | -6.73 | 113 | 251 | V |
| 3 | * 5.35 | 34.4 | RMS | 34.3 | -18.9 | 49.8 | 54 | -4.2 | - | - | 113 | 251 | V |
| 4 | * 5.35 | 35.01 | RMS | 34.3 | -18.9 | 50.41 | 54 | -3.59 | - | - | 113 | 251 | V |

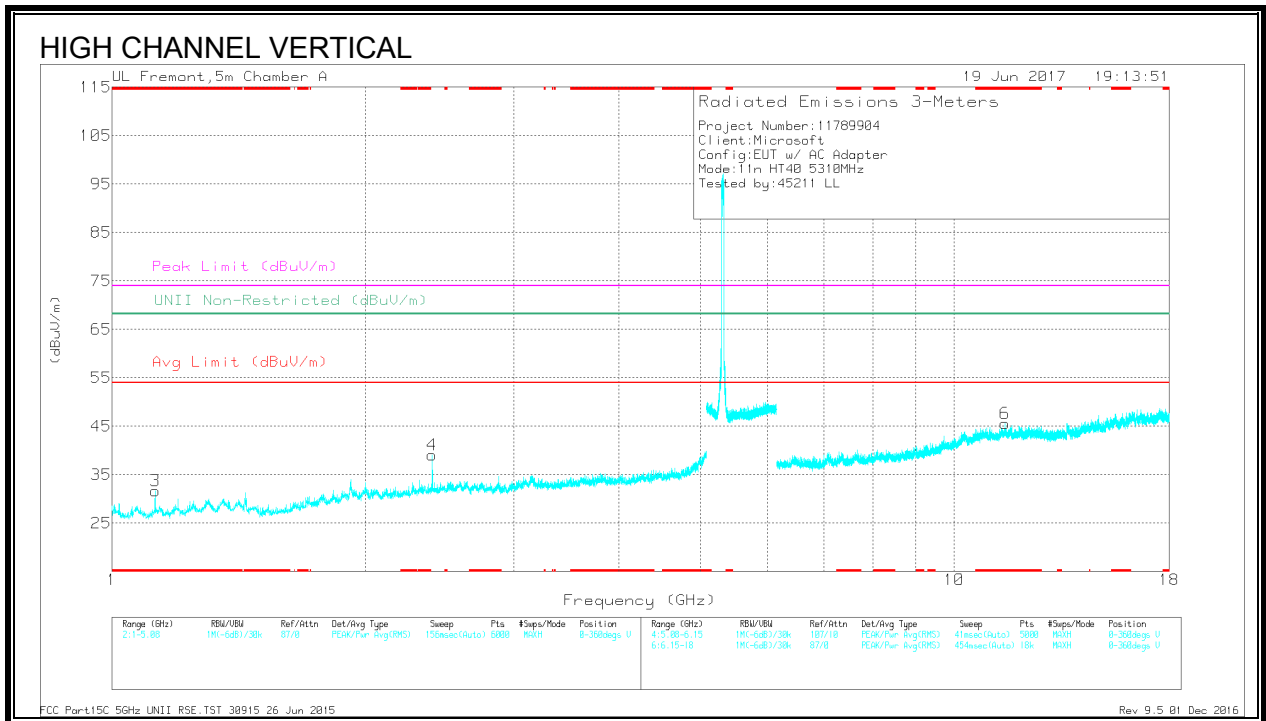
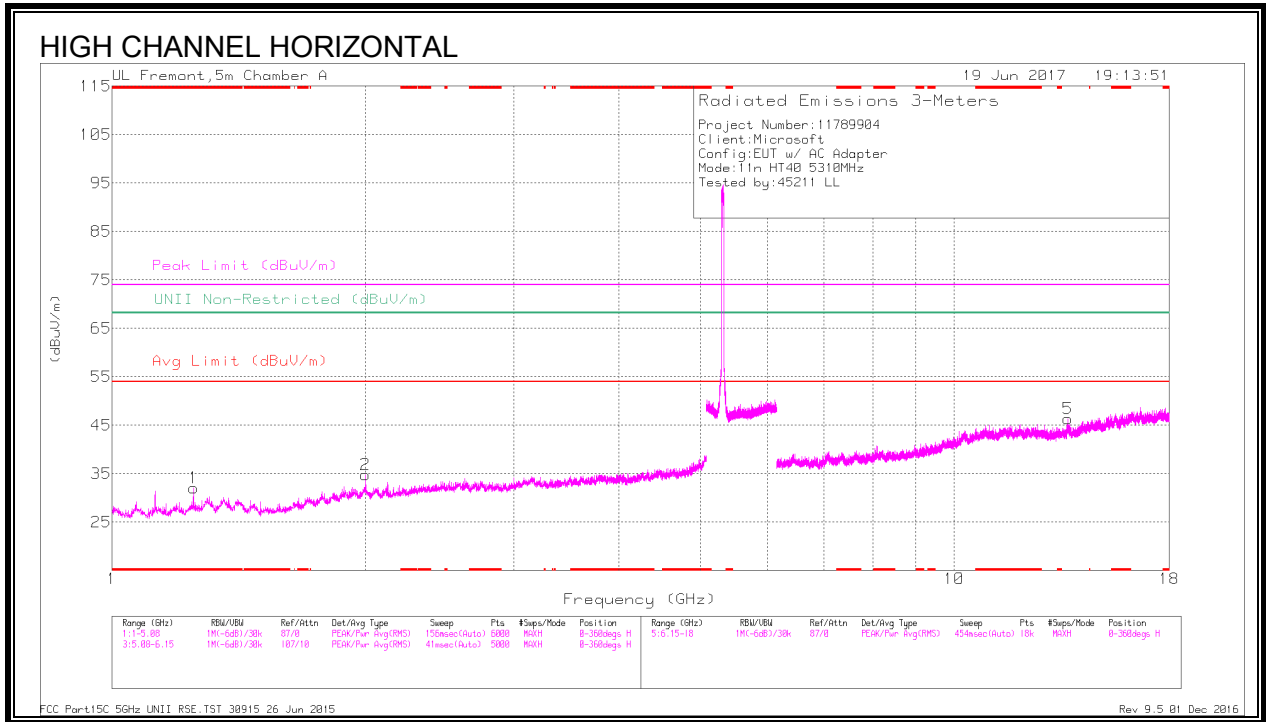
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBim) | Amp/Cbl/Filtr/Pad (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 |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 3 | * 1.125 | 43.02 | PK-U | 28 | -33.8 | 37.22 | - | - | 74 | -36.78 | - | - | 185 | 200 | V |
| | * 1.125 | 33.96 | ADR | 28 | -33.8 | 28.16 | 54 | -25.84 | - | - | - | - | 185 | 200 | V |
| 4 | * 7.426 | 33.58 | PK-U | 35.5 | -24.3 | 44.78 | - | - | 74 | -29.22 | - | - | 235 | 200 | H |
| | * 7.426 | 21.7 | ADR | 35.5 | -24.3 | 32.9 | 54 | -21.1 | - | - | - | - | 235 | 200 | H |
| 5 | * 9.305 | 33.45 | PK-U | 36.2 | -22.1 | 47.55 | - | - | 74 | -26.45 | - | - | 278 | 102 | V |
| | * 9.306 | 21.47 | ADR | 36.2 | -22.2 | 35.47 | 54 | -18.53 | - | - | - | - | 278 | 102 | V |
| 6 | * 12.575 | 32.74 | PK-U | 39 | -20.6 | 51.14 | - | - | 74 | -22.86 | - | - | 322 | 102 | V |
| | * 12.574 | 20.35 | ADR | 39 | -20.5 | 38.85 | 54 | -15.15 | - | - | - | - | 322 | 102 | V |
| 1 | 1.919 | 52.45 | PK-U | 31.3 | -33.3 | 50.45 | - | - | - | - | 68.2 | -17.75 | 211 | 116 | H |
| 2 | 2.4 | 47.49 | PK-U | 32.1 | -32.2 | 47.39 | - | - | - | - | 68.2 | -20.81 | 351 | 241 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

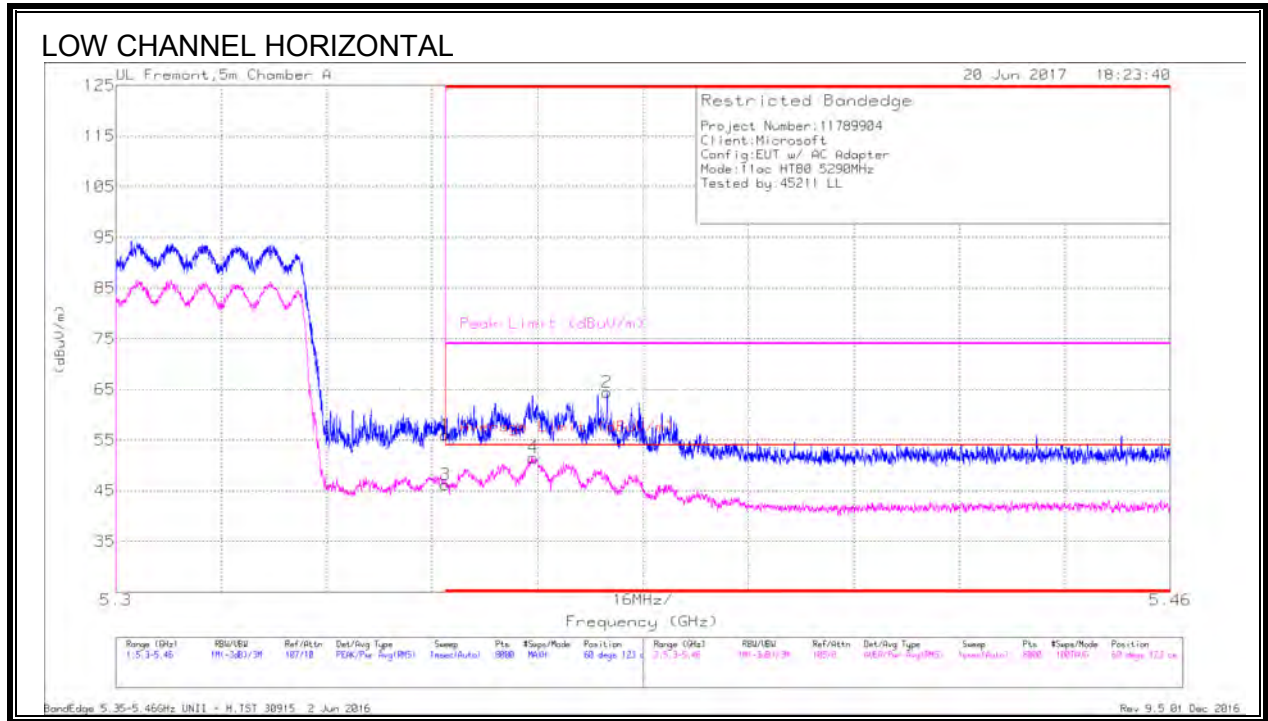


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.25 | 42.84 | PK-U | 29.1 | -34.3 | 37.64 | - | - | 74 | -36.36 | - | - | 261 | 137 | H |
| | * 1.25 | 33.19 | ADR | 29.1 | -34.3 | 27.99 | 54 | -26.01 | - | - | - | - | 261 | 137 | H |
| 3 | * 1.125 | 43.19 | PK-U | 28 | -33.8 | 37.39 | - | - | 74 | -36.61 | - | - | 188 | 214 | V |
| | * 1.125 | 34.92 | ADR | 28 | -33.8 | 29.12 | 54 | -24.88 | - | - | - | - | 188 | 214 | V |
| 6 | * 11.482 | 32.12 | PK-U | 38 | -19.6 | 50.52 | - | - | 74 | -23.48 | - | - | 68 | 102 | V |
| | * 11.482 | 21.28 | ADR | 38.1 | -19.6 | 39.78 | 54 | -14.22 | - | - | - | - | 68 | 102 | V |
| 2 | 2 | 42.43 | PK-U | 31.4 | -32.5 | 41.33 | - | - | - | - | 68.2 | -26.87 | 342 | 191 | H |
| 4 | 2.402 | 39.63 | PK-U | 32.1 | -32.2 | 39.53 | - | - | - | - | 68.2 | -28.67 | 11 | 133 | V |
| 5 | 13.646 | 33.05 | PK-U | 38.7 | -21 | 50.75 | - | - | - | - | 68.2 | -17.45 | 127 | 199 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.8. 11ac VHT80 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

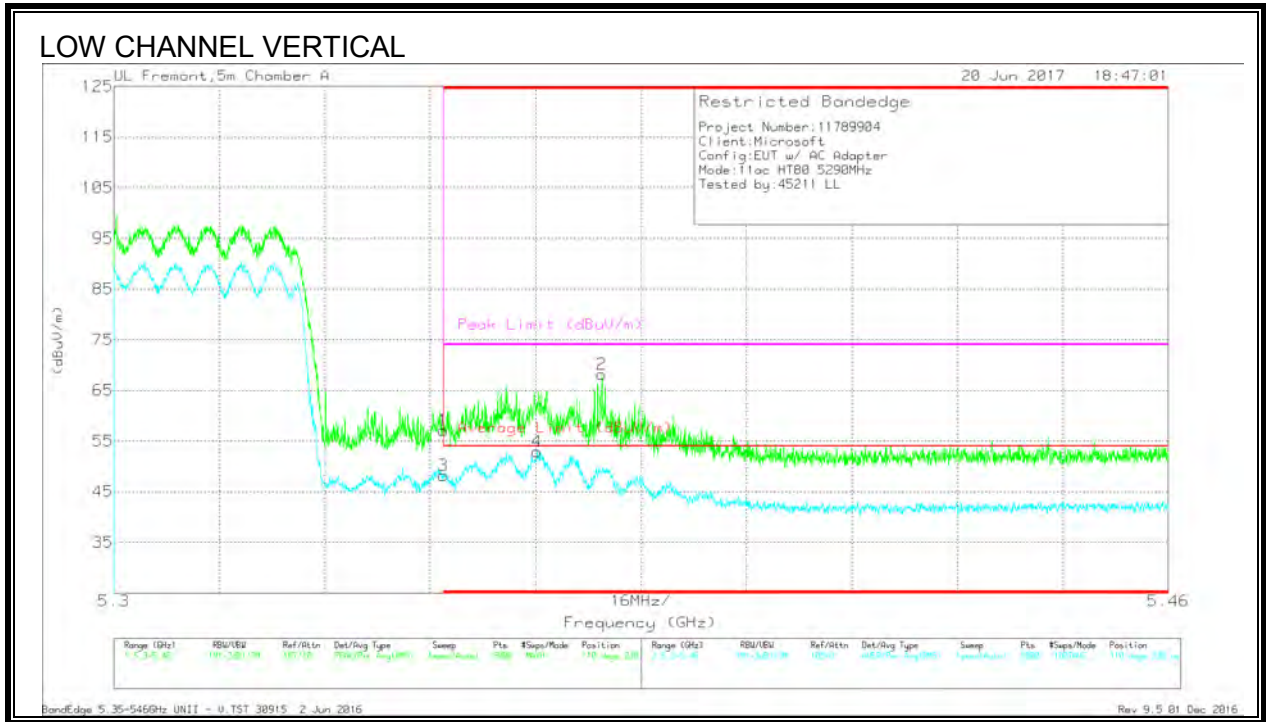


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 40.65 | Pk | 34.3 | -18.9 | 56.05 | - | - | 74 | -17.95 | 60 | 123 | H |
| 2 | * 5.375 | 48.8 | Pk | 34.3 | -18.6 | 64.5 | - | - | 74 | -9.5 | 60 | 123 | H |
| 3 | * 5.35 | 30.83 | RMS | 34.3 | -18.9 | 46.23 | 54 | -7.77 | - | - | 60 | 123 | H |
| 4 | * 5.363 | 35.99 | RMS | 34.3 | -18.7 | 51.59 | 54 | -2.41 | - | - | 60 | 123 | H |

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

Pk - Peak detector

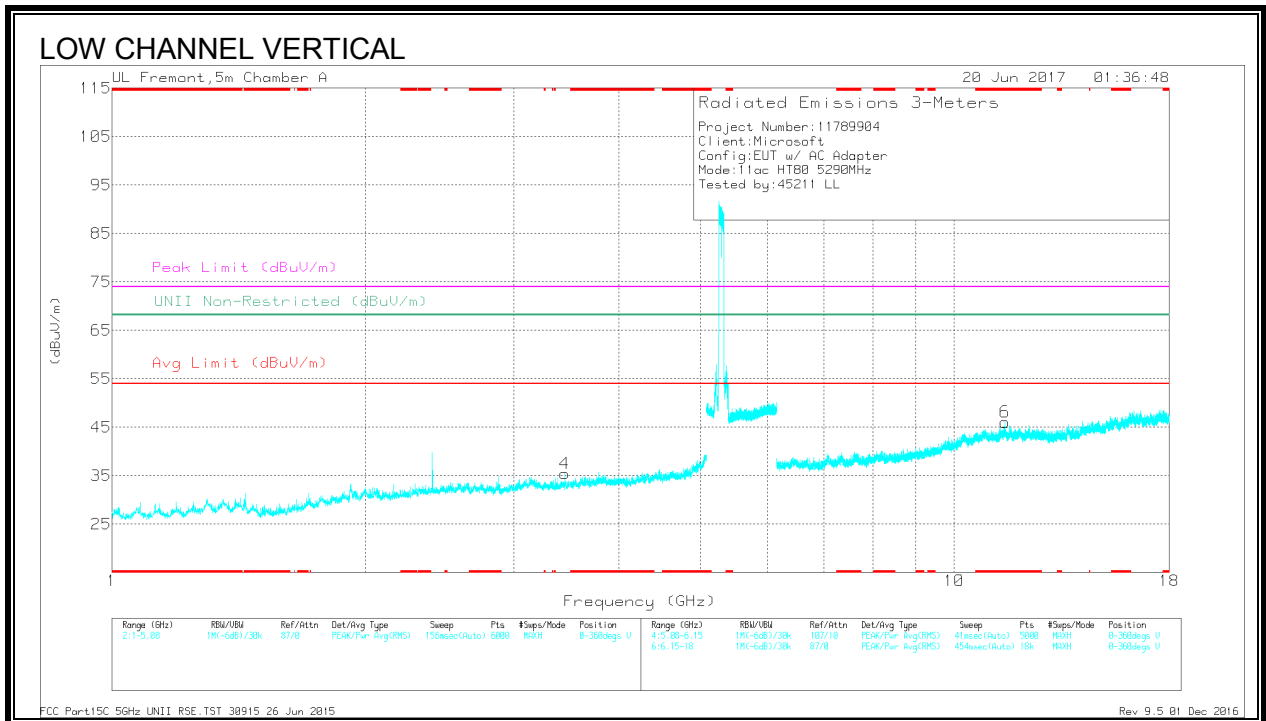
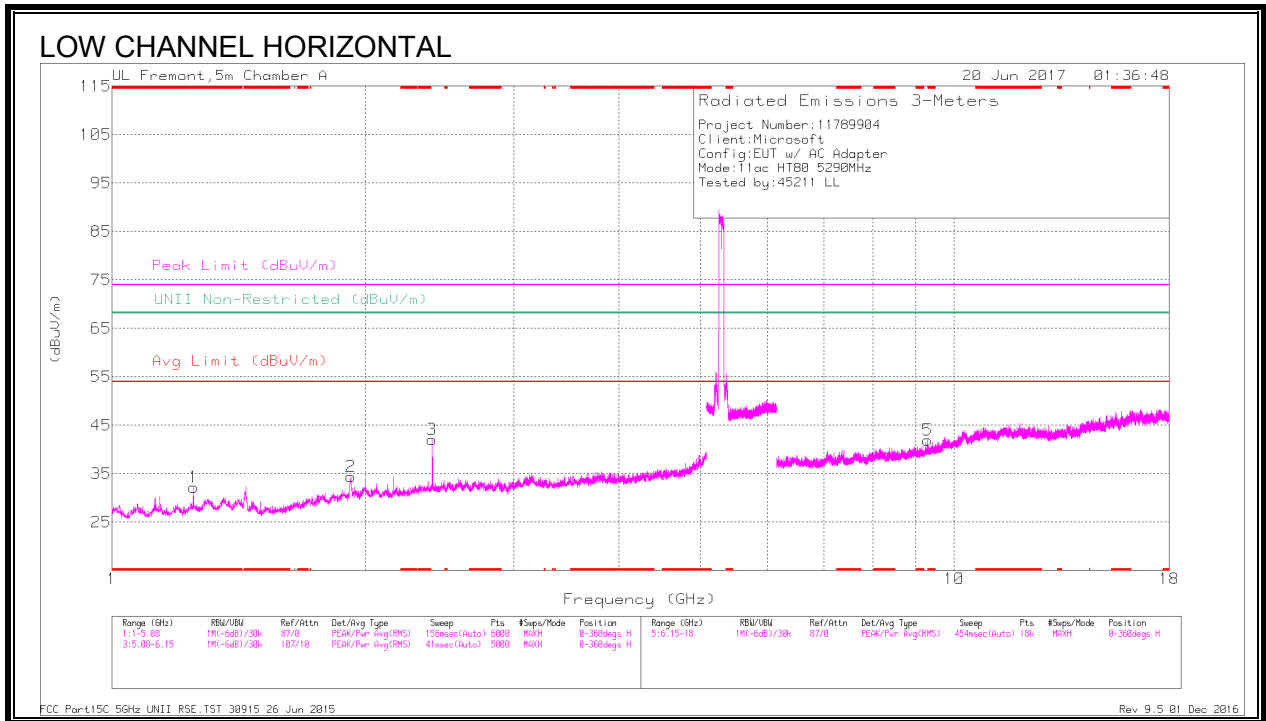
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 41.72 | Pk | 34.3 | -18.9 | 57.12 | - | - | 74 | -16.88 | 110 | 238 | V |
| 2 | * 5.374 | 52.43 | Pk | 34.3 | -18.6 | 68.13 | - | - | 74 | -5.87 | 110 | 238 | V |
| 3 | * 5.35 | 32.79 | RMS | 34.3 | -18.9 | 48.19 | 54 | -5.81 | - | - | 110 | 238 | V |
| 4 | * 5.364 | 37.34 | RMS | 34.3 | -18.7 | 52.94 | 54 | -1.06 | - | - | 110 | 238 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (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 | * 1.25 | 44.35 | PK-U | 29.1 | -34.3 | 39.15 | - | - | 74 | -34.85 | - | - | 262 | 112 | H |
| | * 1.25 | 35.85 | ADR | 29.1 | -34.3 | 30.65 | 54 | -23.35 | - | - | - | - | 262 | 112 | H |
| 6 | * 11.494 | 32.59 | PK-U | 38.1 | -19.7 | 50.99 | - | - | 74 | -23.01 | - | - | 109 | 102 | V |
| | * 11.493 | 20.55 | ADR | 38.1 | -19.7 | 38.95 | 54 | -15.05 | - | - | - | - | 109 | 102 | V |
| 2 | 1.921 | 52.93 | PK-U | 31.3 | -33.3 | 50.93 | - | - | - | - | 68.2 | -17.27 | 207 | 125 | H |
| 3 | 2.4 | 47.44 | PK-U | 32.1 | -32.2 | 47.34 | - | - | - | - | 68.2 | -20.86 | 353 | 242 | H |
| 4 | 3.45 | 39.09 | PK-U | 32.9 | -30.3 | 41.69 | - | - | - | - | 68.2 | -26.51 | 42 | 400 | V |
| 5 | 9.296 | 33.14 | PK-U | 36.2 | -22.4 | 46.94 | - | - | - | - | 68.2 | -21.26 | 178 | 200 | H |

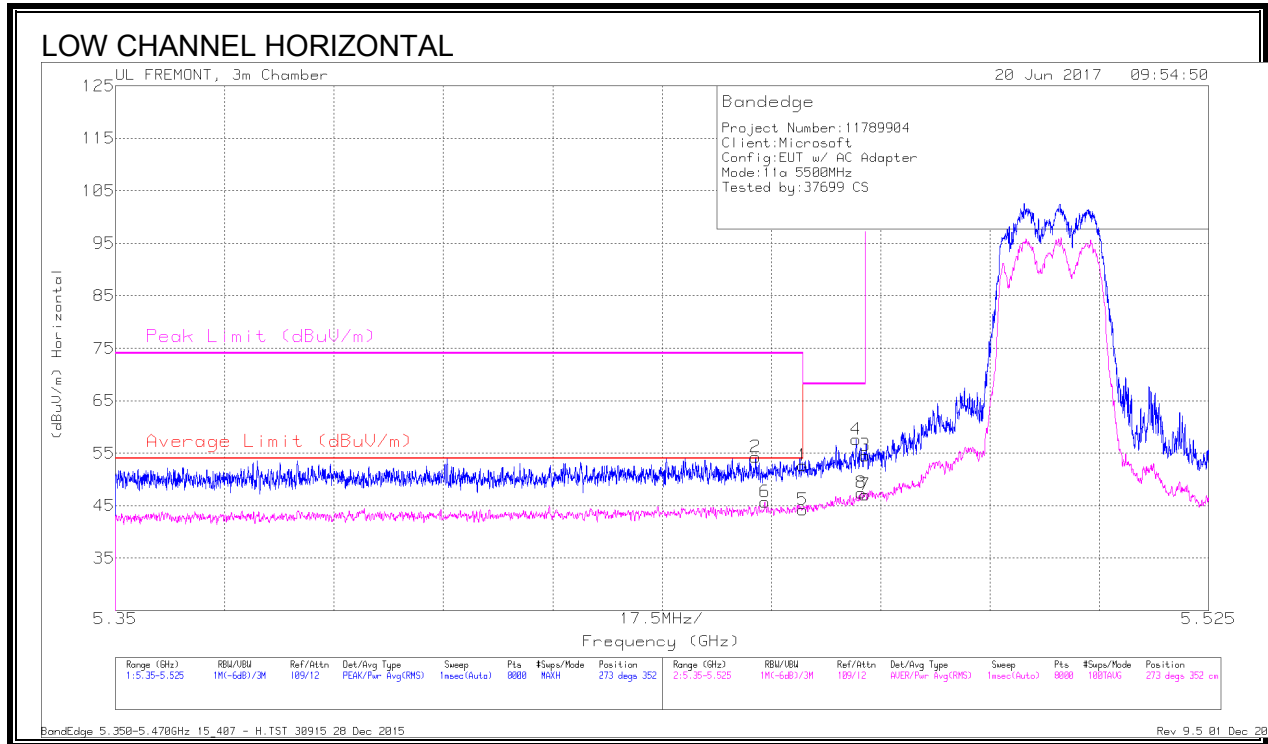
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

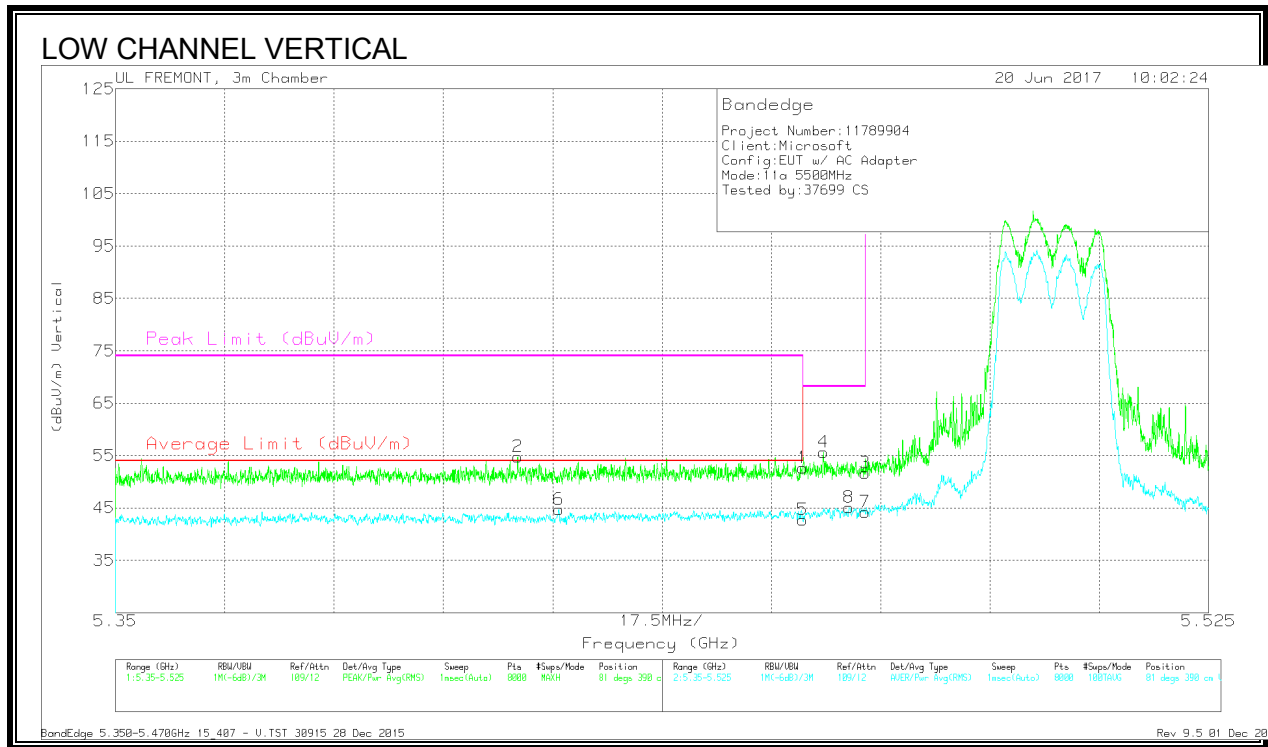
10.1.9. 11a 2TX MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | 5.452 | 39.63 | Pk | 34.5 | -19.9 | 54.23 | - | - | 74 | -19.77 | 273 | 352 | H |
| 6 | 5.454 | 31.05 | RMS | 34.5 | -19.9 | 45.65 | 54 | -8.35 | - | - | 273 | 352 | H |
| 1 | 5.46 | 37.93 | Pk | 34.5 | -19.8 | 52.63 | - | - | 74 | -21.37 | 273 | 352 | H |
| 5 | 5.46 | 29.54 | RMS | 34.5 | -19.8 | 44.24 | 54 | -9.76 | - | - | 273 | 352 | H |
| 4 | 5.469 | 42.91 | Pk | 34.5 | -19.8 | 57.61 | - | - | 68.2 | -10.59 | 273 | 352 | H |
| 8 | 5.469 | 32.75 | RMS | 34.5 | -19.8 | 47.45 | - | - | - | - | 273 | 352 | H |
| 3 | 5.47 | 39.97 | Pk | 34.5 | -19.9 | 54.57 | - | - | 68.2 | -13.63 | 273 | 352 | H |
| 7 | 5.47 | 32.41 | RMS | 34.5 | -19.9 | 47.01 | - | - | - | - | 273 | 352 | H |

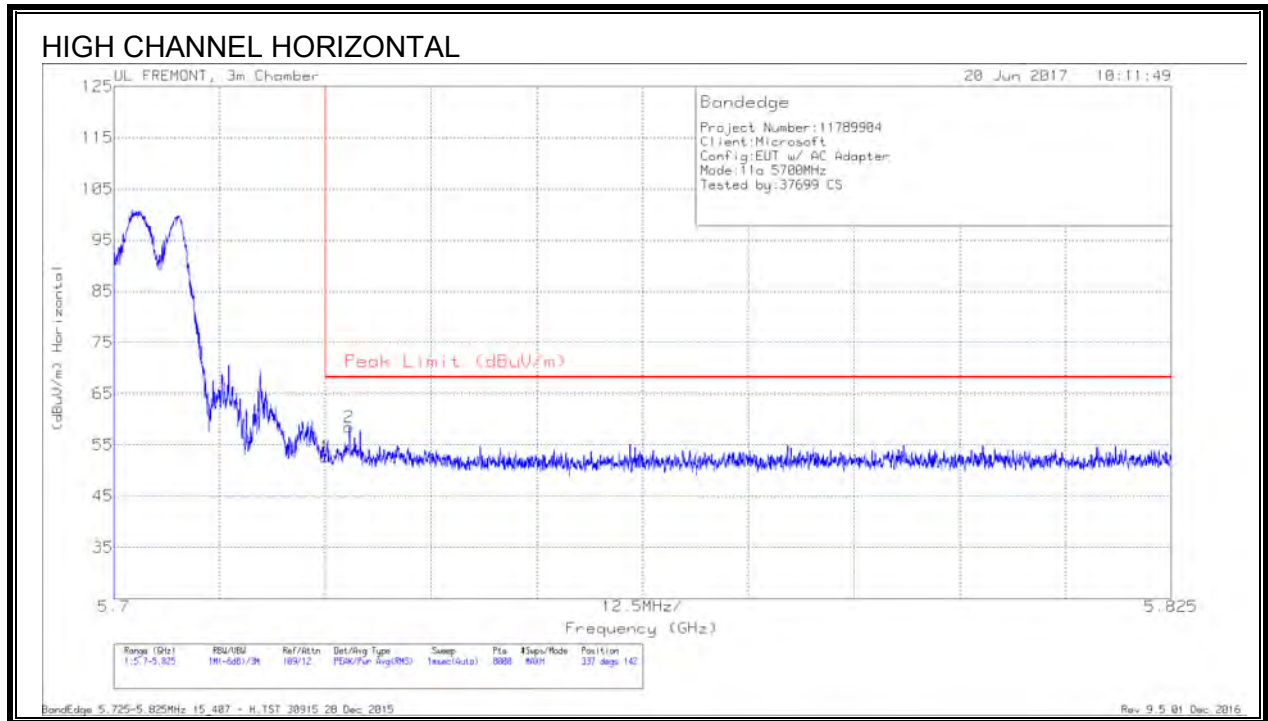
Pk - Peak detector
 RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2 | 5.414 | 40.21 | Pk | 34.4 | -19.9 | 54.71 | - | - | 74 | -19.29 | 81 | 390 | V |
| 6 | 5.421 | 30.27 | RMS | 34.4 | -20 | 44.67 | 54 | -9.33 | - | - | 81 | 390 | V |
| 1 | 5.46 | 38 | Pk | 34.5 | -19.8 | 52.7 | - | - | 74 | -21.3 | 81 | 390 | V |
| 5 | 5.46 | 28.05 | RMS | 34.5 | -19.8 | 42.75 | 54 | -11.25 | - | - | 81 | 390 | V |
| 4 | 5.463 | 41.01 | Pk | 34.5 | -19.9 | 55.61 | - | - | 68.2 | -12.59 | 81 | 390 | V |
| 8 | 5.467 | 30.48 | RMS | 34.5 | -19.9 | 45.08 | - | - | - | - | 81 | 390 | V |
| 3 | 5.47 | 37.07 | Pk | 34.5 | -19.9 | 51.67 | - | - | 68.2 | -16.53 | 81 | 390 | V |
| 7 | 5.47 | 29.62 | RMS | 34.5 | -19.9 | 44.22 | - | - | - | - | 81 | 390 | V |

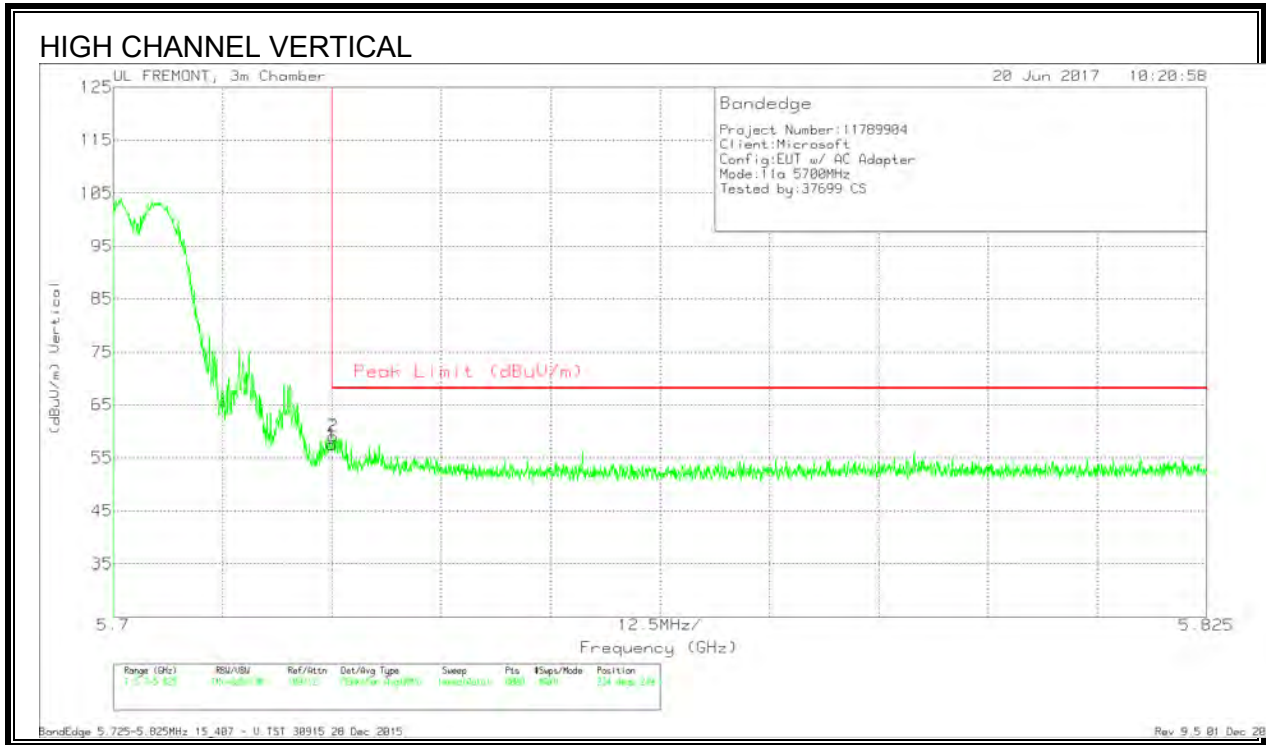
Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cb/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 37.76 | Pk | 34.7 | -19.8 | 52.66 | 68.2 | -15.54 | 337 | 142 | H |
| 2 | 5.728 | 43.7 | Pk | 34.7 | -19.9 | 58.5 | 68.2 | -9.7 | 337 | 142 | H |

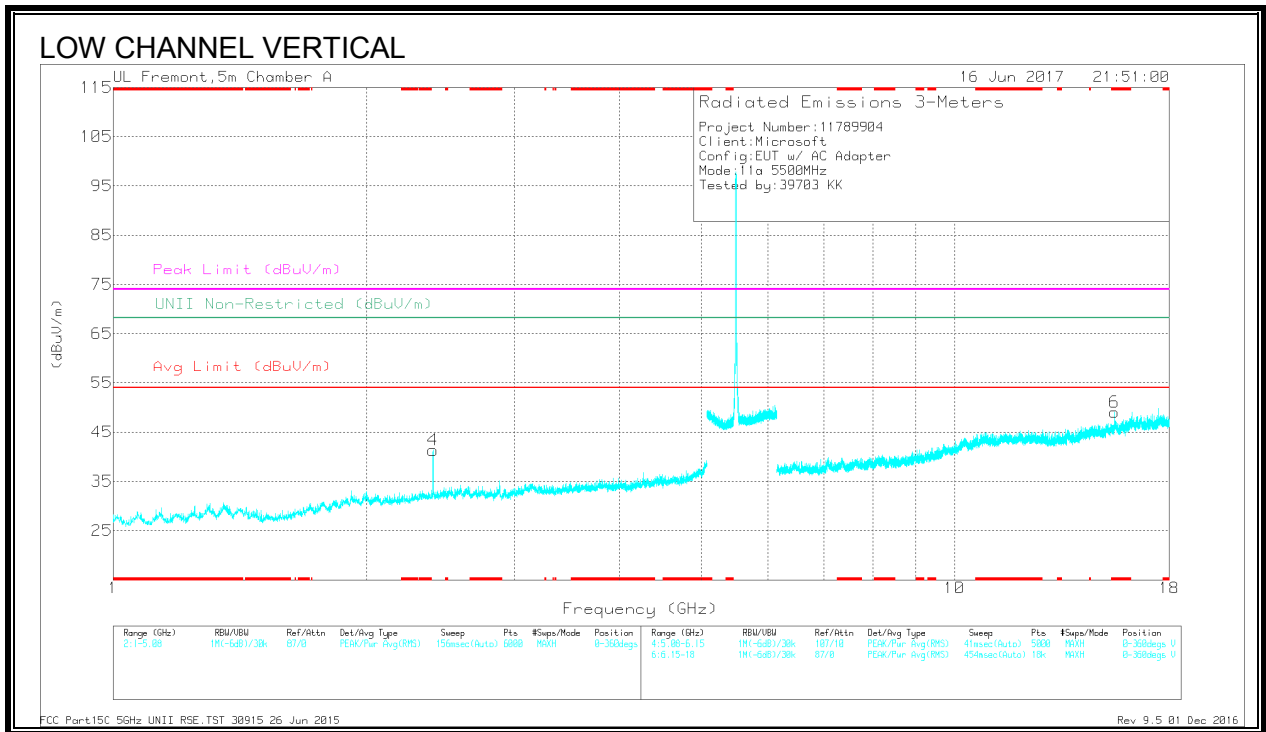
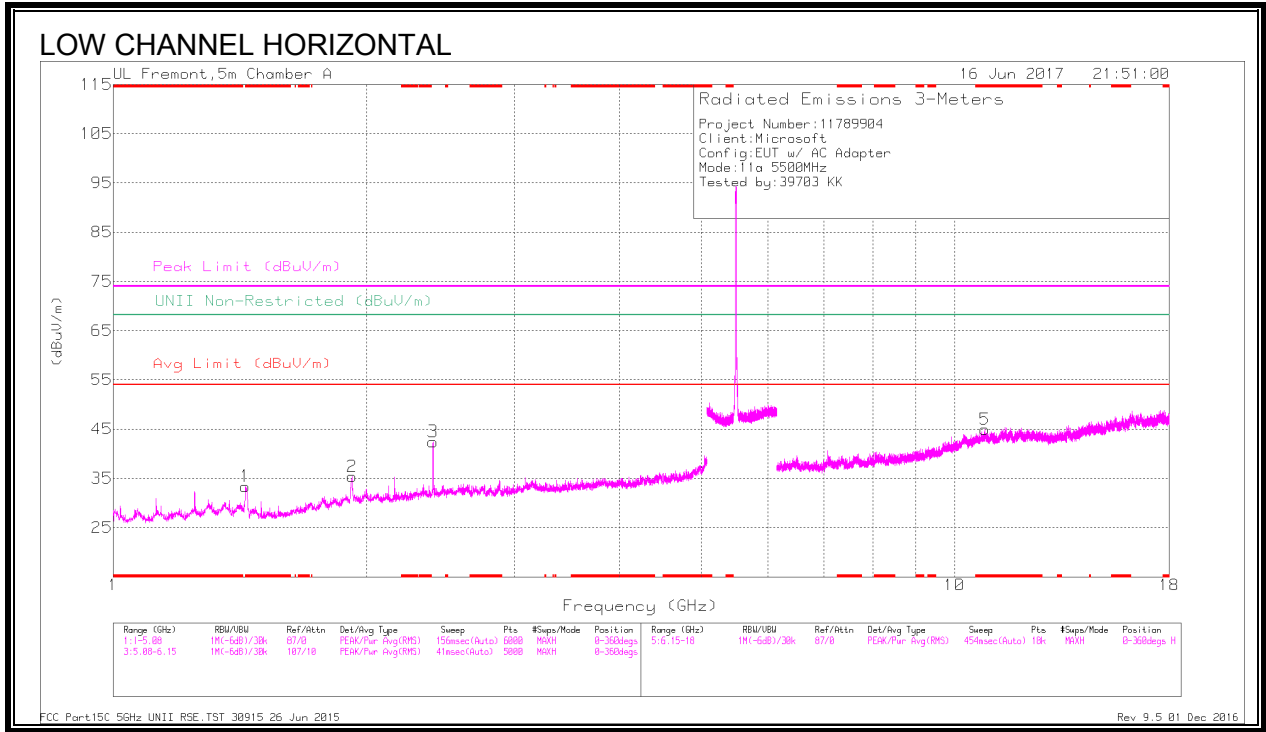
Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 42.54 | Pk | 34.7 | -19.8 | 57.44 | 68.2 | -10.76 | 234 | 249 | V |
| 2 | 5.725 | 44.15 | Pk | 34.7 | -19.8 | 59.05 | 68.2 | -9.15 | 234 | 249 | V |

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

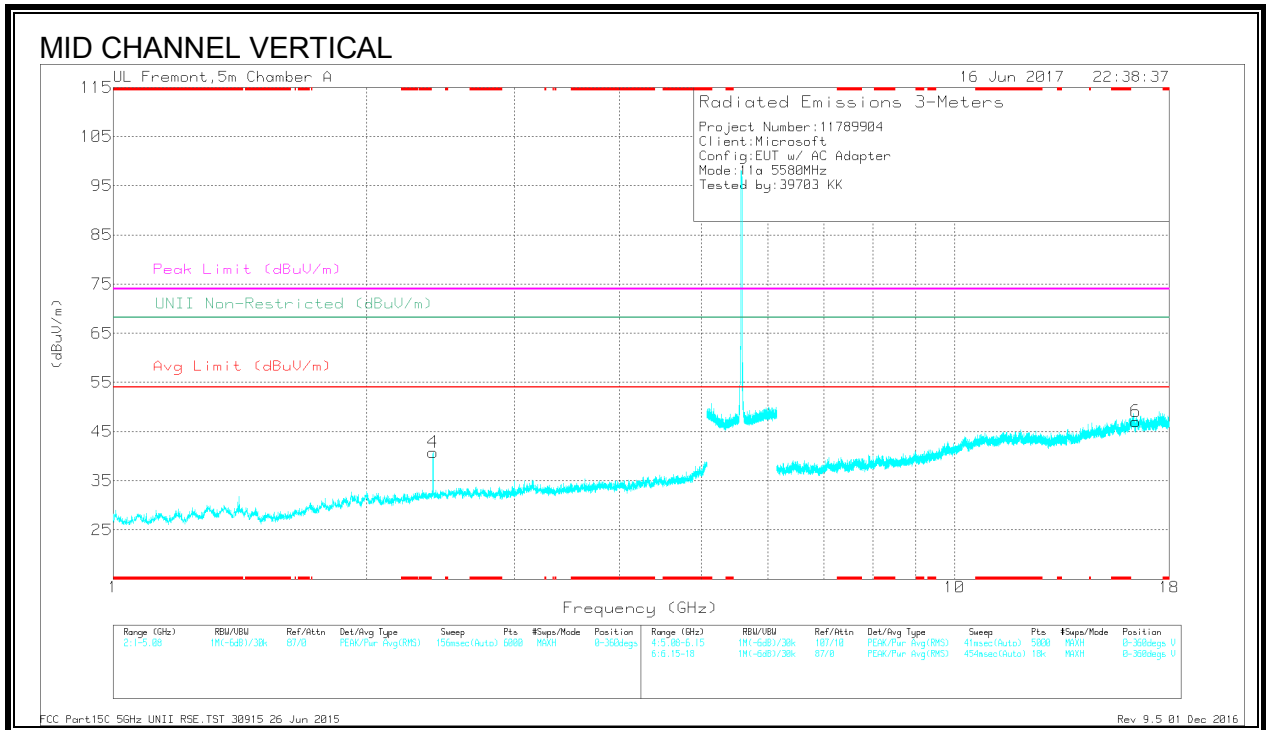
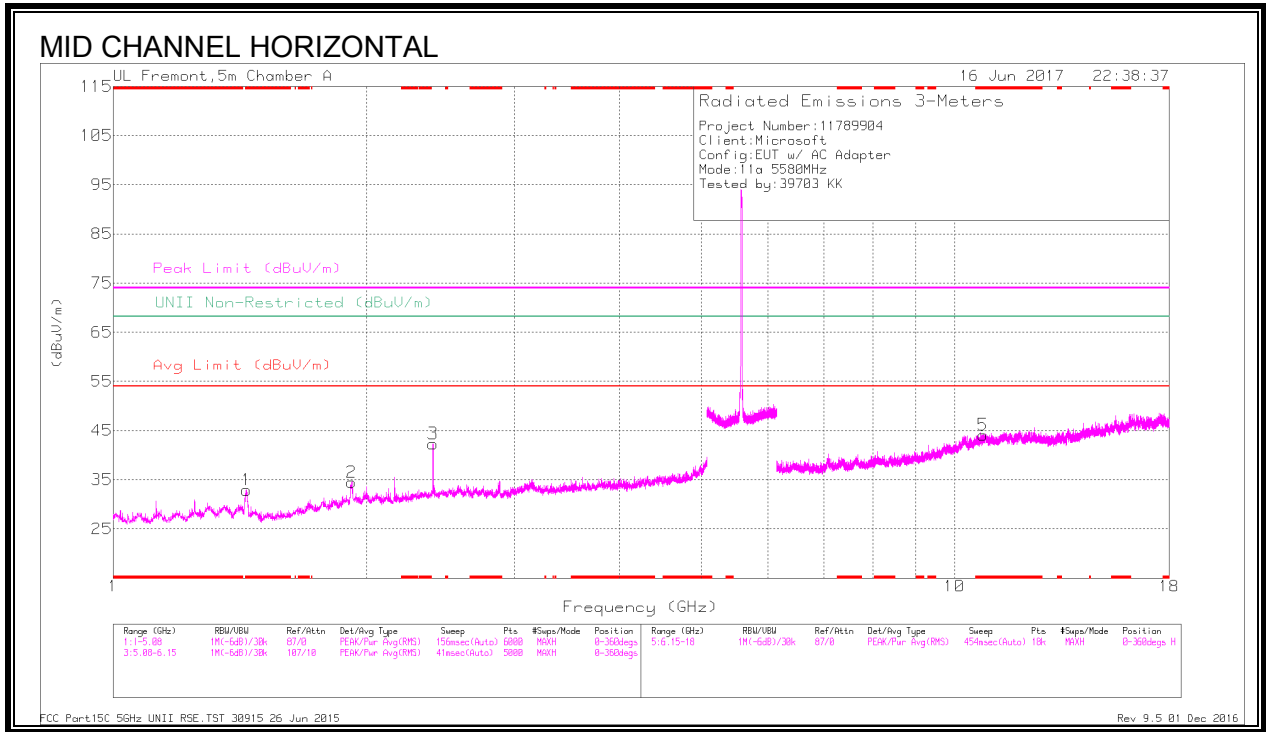


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.461 | 41.01 | PK-U | 28.6 | -33.4 | 36.21 | - | - | 74 | -37.79 | - | - | 246 | 197 | H |
| | * 1.355 | 28.96 | ADR | 29.4 | -33.4 | 24.96 | 54 | -29.04 | - | - | - | - | 246 | 197 | H |
| 5 | * 10.868 | 31.81 | PK-U | 37.9 | -19.5 | 50.21 | - | - | 74 | -23.79 | - | - | 194 | 256 | H |
| | * 10.868 | 20.88 | ADR | 37.9 | -19.5 | 39.28 | 54 | -14.72 | - | - | - | - | 194 | 256 | H |
| 6 | * 15.487 | 31.55 | PK-U | 40.3 | -19.4 | 52.45 | - | - | 74 | -21.55 | - | - | 194 | 256 | V |
| | * 15.486 | 21.02 | ADR | 40.3 | -19.5 | 41.82 | 54 | -12.18 | - | - | - | - | 194 | 256 | V |
| 2 | 1.923 | 40.2 | PK-U | 31.3 | -33.3 | 38.2 | - | - | - | - | 68.2 | -30 | 220 | 400 | H |
| 3 | 2.4 | 48.87 | PK-U | 32.1 | -32.3 | 48.67 | - | - | - | - | 68.2 | -19.53 | 168 | 171 | H |
| 4 | 2.4 | 44.07 | PK-U | 32.1 | -32.2 | 43.97 | - | - | - | - | 68.2 | -24.23 | 287 | 142 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

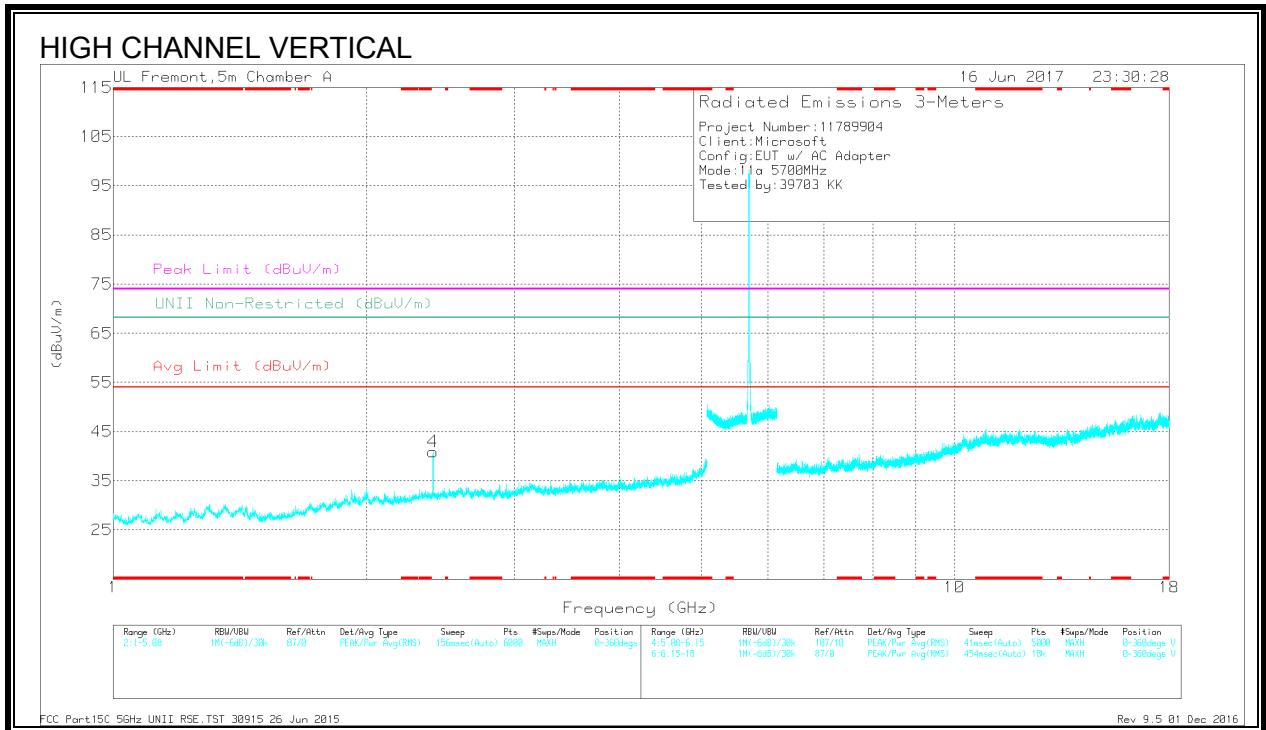
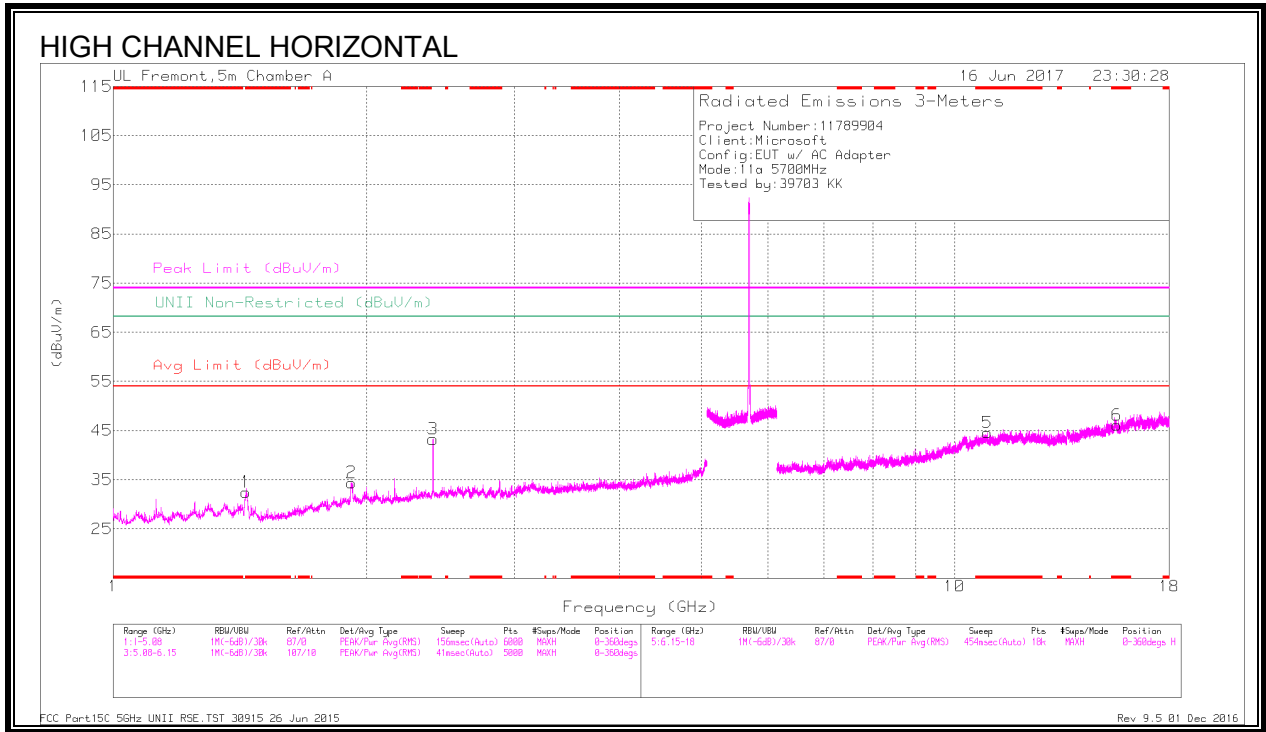


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.44 | 53.15 | PK-U | 28.8 | -33.6 | 48.35 | - | - | 74 | -25.65 | - | - | 209 | 106 | H |
| | * 1.44 | 33.67 | ADR | 28.8 | -33.6 | 28.87 | 54 | -25.13 | - | - | - | - | 209 | 106 | H |
| 5 | * 10.816 | 32.34 | PK-U | 37.9 | -19.9 | 50.34 | - | - | 74 | -23.66 | - | - | 194 | 253 | H |
| | * 10.816 | 21.13 | ADR | 37.9 | -19.9 | 39.13 | 54 | -14.87 | - | - | - | - | 194 | 253 | H |
| 2 | 1.919 | 52.14 | PK-U | 31.3 | -33.3 | 50.14 | - | - | - | - | 68.2 | -18.06 | 161 | 168 | H |
| 4 | 2.4 | 45.9 | PK-U | 32.1 | -32.3 | 45.7 | - | - | - | - | 68.2 | -22.5 | 194 | 253 | V |
| 3 | 2.401 | 48.36 | PK-U | 32.1 | -32.2 | 48.26 | - | - | - | - | 68.2 | -19.94 | 170 | 118 | H |
| 6 | 16.43 | 32.24 | PK-U | 41.6 | -20.8 | 53.04 | - | - | - | - | 68.2 | -15.16 | 89 | 201 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

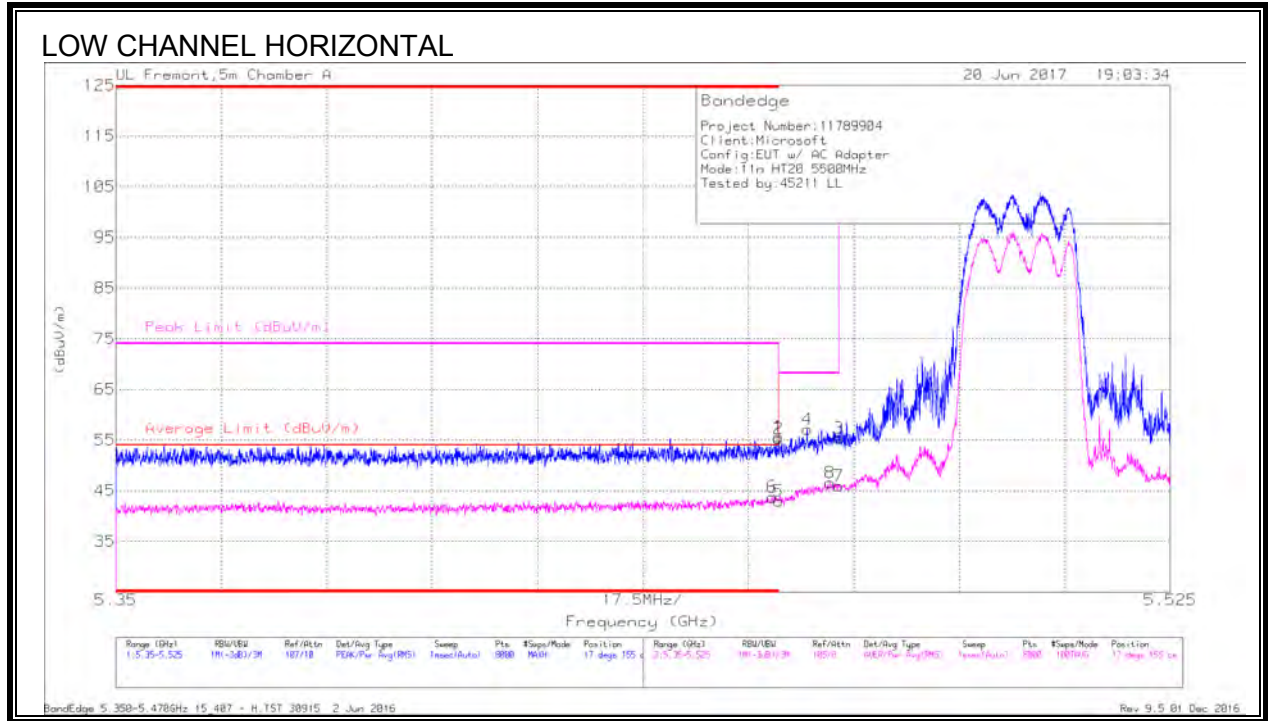


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.44 | 53.25 | PK-U | 28.8 | -33.6 | 48.45 | - | - | 74 | -25.55 | - | - | 216 | 199 | H |
| | * 1.44 | 33.91 | ADR | 28.8 | -33.6 | 29.11 | 54 | -24.89 | - | - | - | - | 216 | 199 | H |
| 5 | * 10.946 | 31.66 | PK-U | 37.8 | -19.8 | 49.66 | - | - | 74 | -24.34 | - | - | 172 | 124 | H |
| | * 10.948 | 21.29 | ADR | 37.8 | -19.9 | 39.19 | 54 | -14.81 | - | - | - | - | 172 | 124 | H |
| 6 | * 15.597 | 31.82 | PK-U | 40.4 | -20.1 | 52.12 | - | - | 74 | -21.88 | - | - | 172 | 124 | H |
| | * 15.595 | 21.5 | ADR | 40.4 | -20.1 | 41.8 | 54 | -12.2 | - | - | - | - | 172 | 124 | H |
| 2 | 1.921 | 52.45 | PK-U | 31.3 | -33.3 | 50.45 | - | - | - | - | 68.2 | -17.75 | 165 | 114 | H |
| 3 | 2.4 | 47.84 | PK-U | 32.1 | -32.3 | 47.64 | - | - | - | - | 68.2 | -20.56 | 169 | 149 | H |
| 4 | 2.4 | 45.32 | PK-U | 32.1 | -32.2 | 45.22 | - | - | - | - | 68.2 | -22.98 | 172 | 124 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.10. 11n HT20 2TX MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

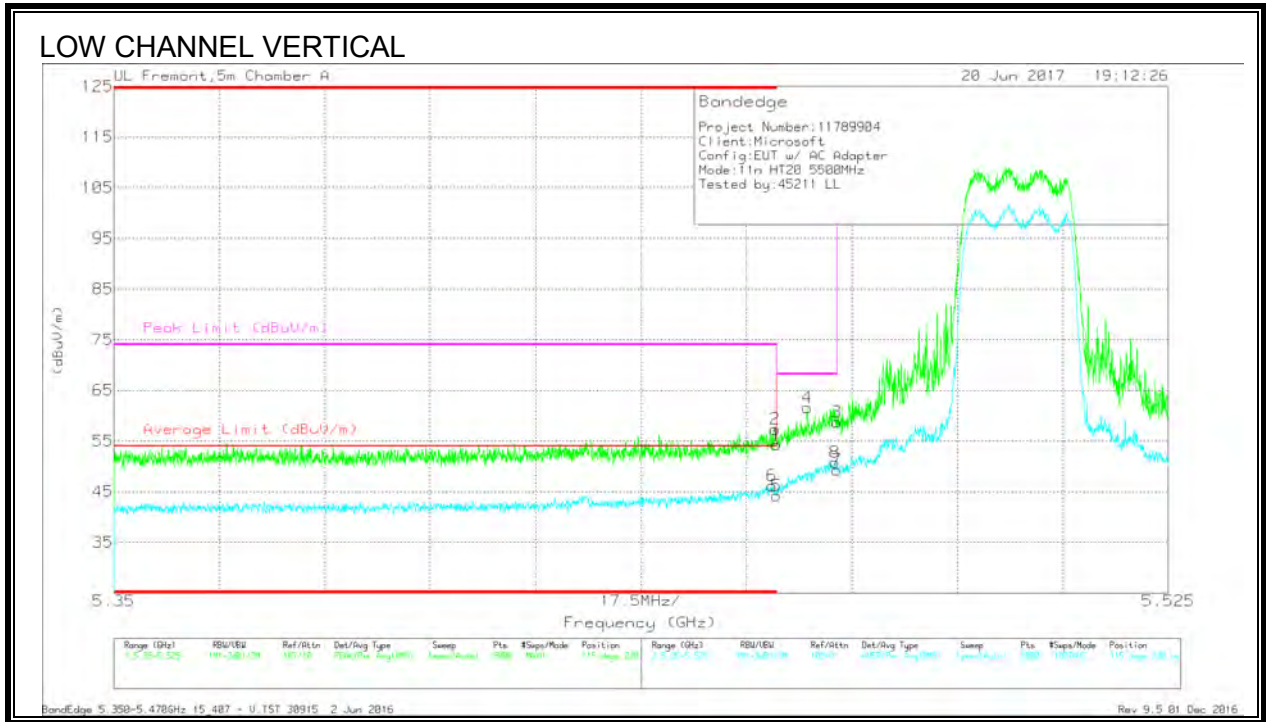


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.46 | 40.17 | Pk | 34.4 | -18.9 | 55.67 | - | - | 74 | -18.33 | 17 | 155 | H |
| 2 | * 5.46 | 39.81 | Pk | 34.4 | -18.9 | 55.31 | - | - | 74 | -18.69 | 17 | 155 | H |
| 5 | * 5.46 | 27.46 | RMS | 34.4 | -18.9 | 42.96 | 54 | -11.04 | - | - | 17 | 155 | H |
| 6 | * 5.459 | 28.27 | RMS | 34.4 | -18.9 | 43.77 | 54 | -10.23 | - | - | 17 | 155 | H |
| 4 | 5.465 | 41.57 | Pk | 34.4 | -18.8 | 57.17 | - | - | 68.2 | -11.03 | 17 | 155 | H |
| 8 | 5.469 | 30.82 | RMS | 34.4 | -18.7 | 46.52 | - | - | - | - | 17 | 155 | H |
| 3 | 5.47 | 39.72 | Pk | 34.4 | -18.7 | 55.42 | - | - | 68.2 | -12.78 | 17 | 155 | H |
| 7 | 5.47 | 30.22 | RMS | 34.4 | -18.7 | 45.92 | - | - | - | - | 17 | 155 | H |

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

Pk - Peak detector

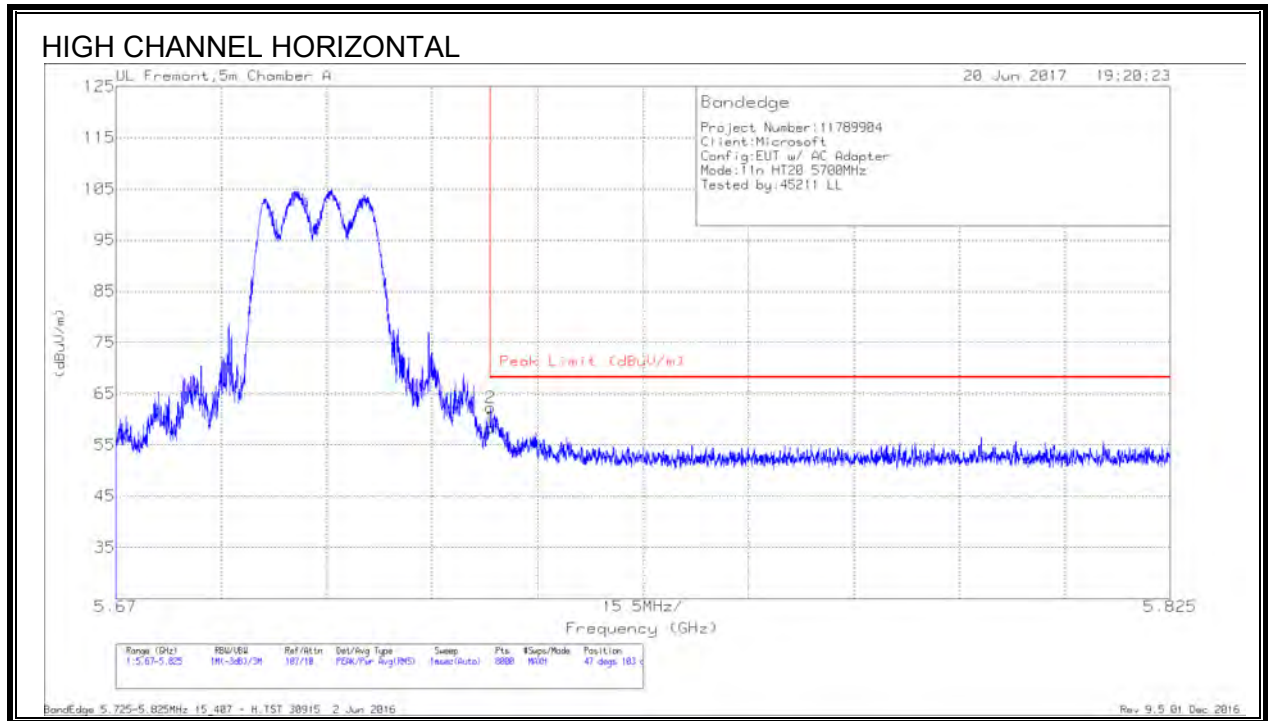
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.46 | 38.81 | Pk | 34.4 | -18.9 | 54.31 | - | - | 74 | -19.69 | 115 | 230 | V |
| 2 | * 5.46 | 41.81 | Pk | 34.4 | -18.9 | 57.31 | - | - | 74 | -16.69 | 115 | 230 | V |
| 5 | * 5.46 | 28.7 | RMS | 34.4 | -18.9 | 44.2 | 54 | -9.8 | - | - | 115 | 230 | V |
| 6 | * 5.459 | 30.69 | RMS | 34.4 | -18.9 | 46.19 | 54 | -7.81 | - | - | 115 | 230 | V |
| 4 | 5.465 | 45.94 | Pk | 34.4 | -18.7 | 61.64 | - | - | 68.2 | -6.56 | 115 | 230 | V |
| 3 | 5.47 | 43.06 | Pk | 34.4 | -18.7 | 58.76 | - | - | 68.2 | -9.44 | 115 | 230 | V |
| 7 | 5.47 | 33.59 | RMS | 34.4 | -18.7 | 49.29 | - | - | - | - | 115 | 230 | V |
| 8 | 5.47 | 35.12 | RMS | 34.4 | -18.7 | 50.82 | - | - | - | - | 115 | 230 | V |

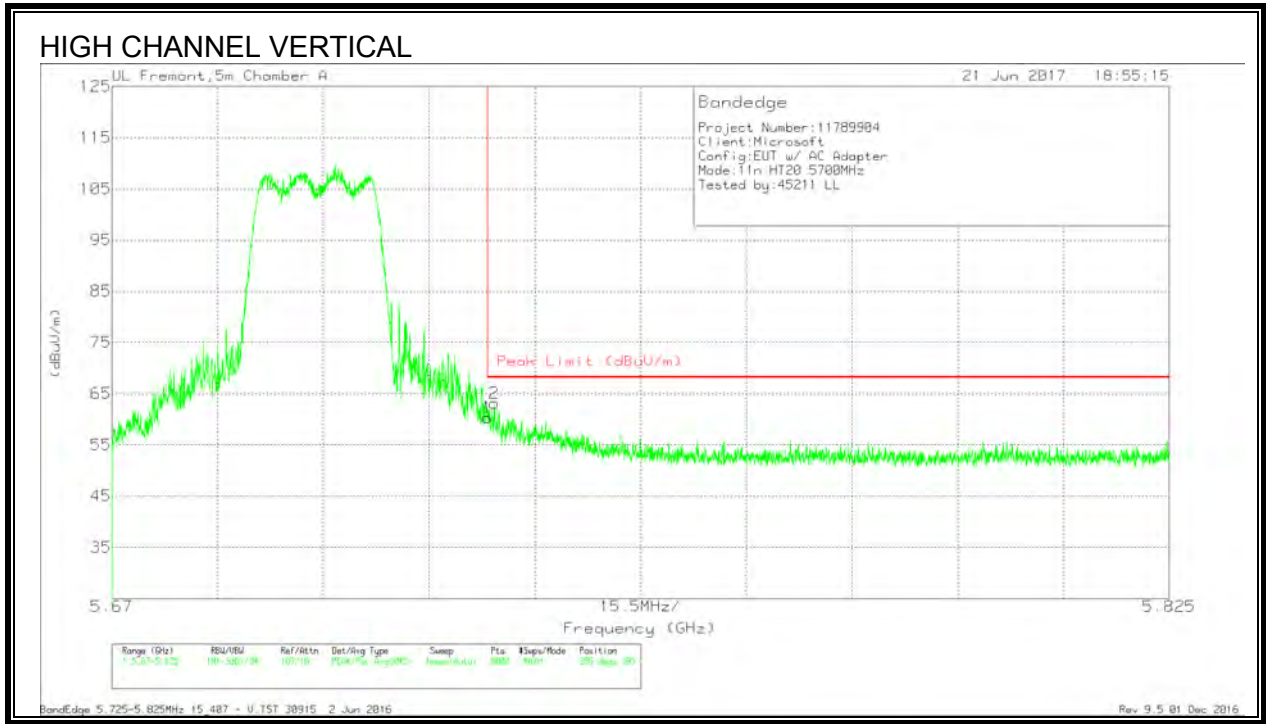
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cb/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 42.5 | Pk | 34.8 | -19 | 58.3 | 68.2 | -9.9 | 47 | 103 | H |
| 2 | 5.725 | 46.47 | Pk | 34.8 | -19 | 62.27 | 68.2 | -5.93 | 47 | 103 | H |

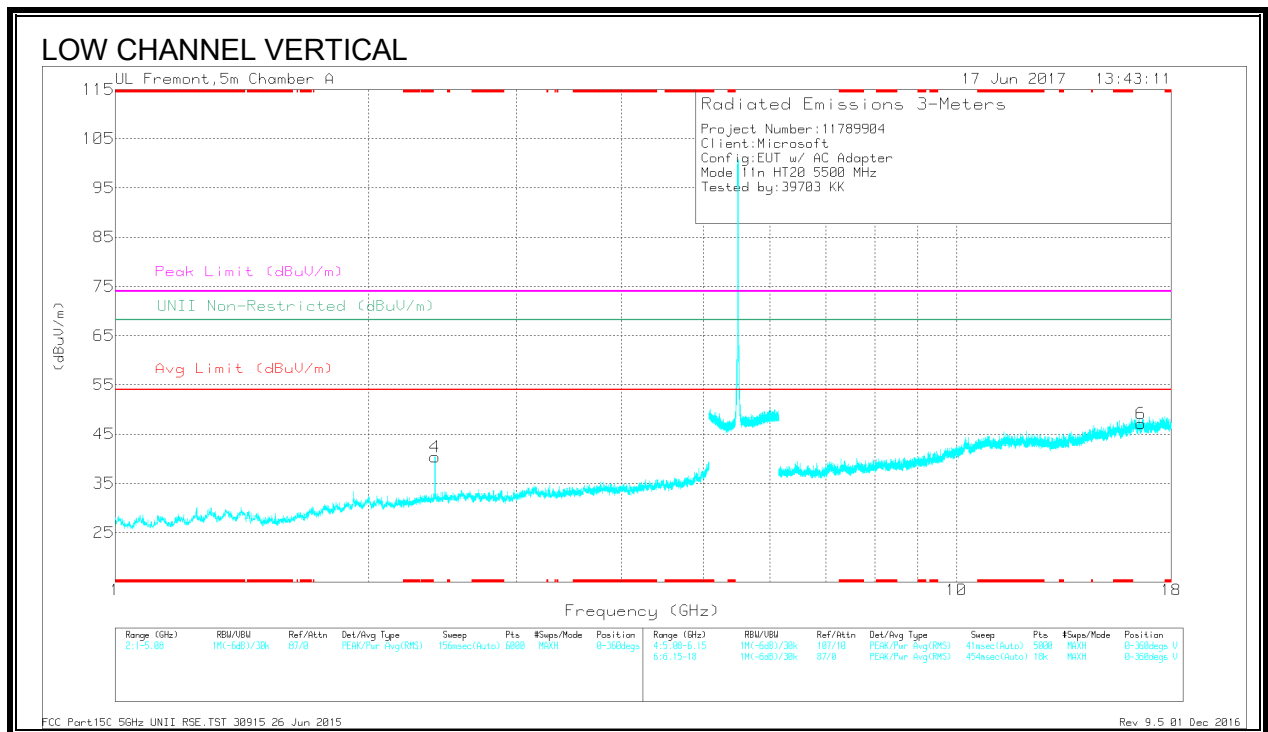
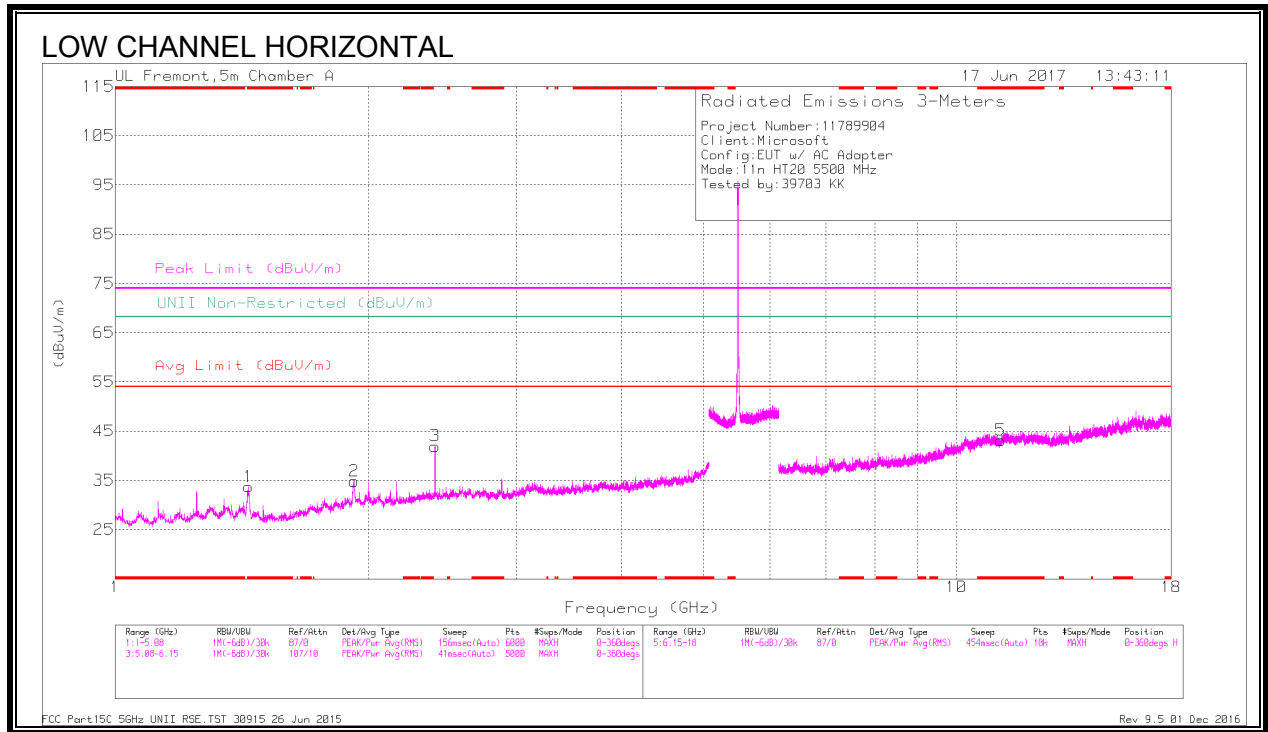
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 44.54 | Pk | 34.8 | -19 | 60.34 | 68.2 | -7.86 | 289 | 395 | V |
| 2 | 5.726 | 47.34 | Pk | 34.8 | -19 | 63.14 | 68.2 | -5.06 | 289 | 395 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

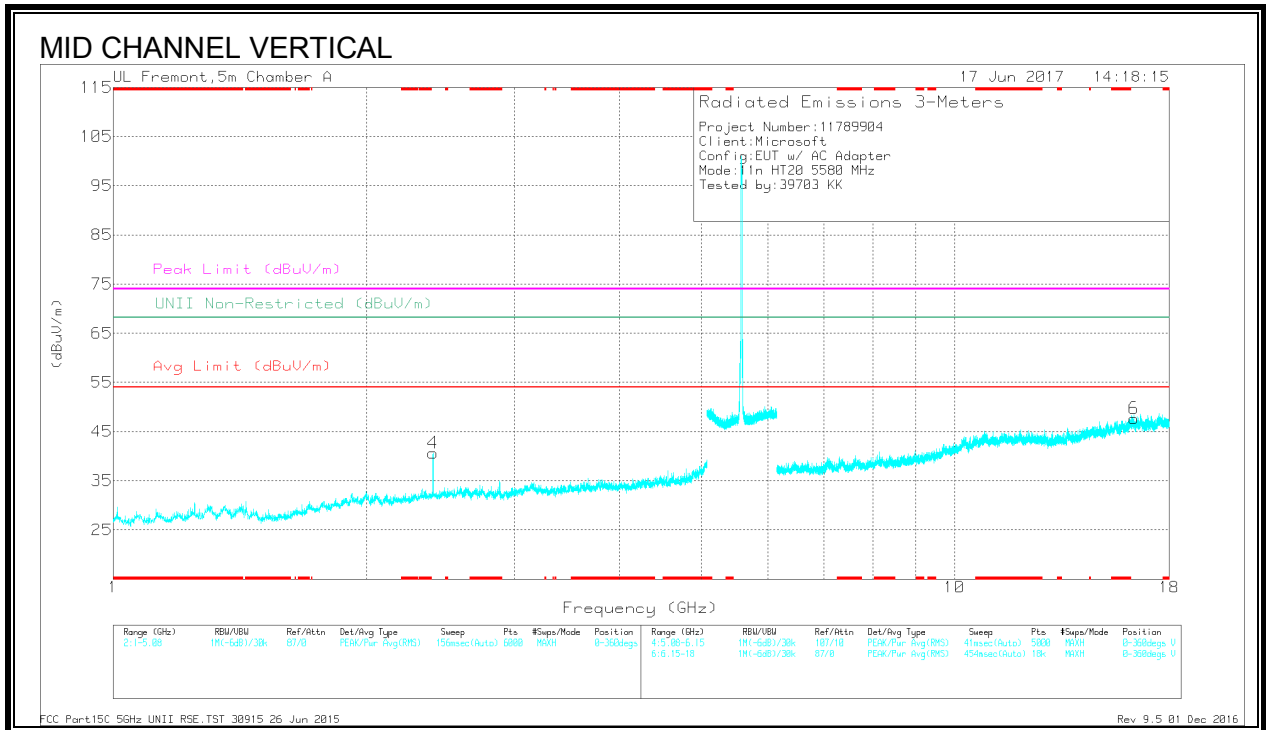
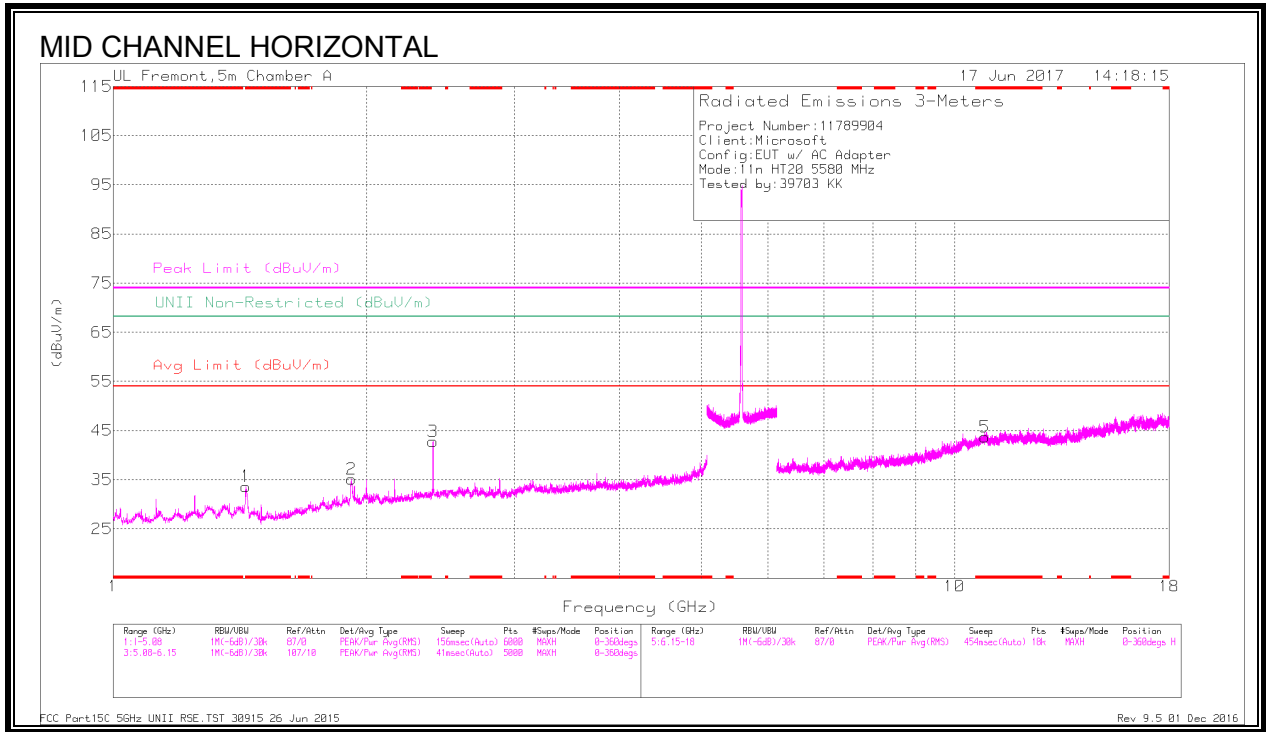


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 5 | * 11.286 | 31.43 | PK-U | 37.9 | -20 | 49.33 | - | - | 74 | -24.67 | - | - | 170 | 199 | H |
| | * 11.286 | 20.86 | ADR | 37.9 | -20 | 38.76 | 54 | -15.24 | - | - | - | - | 170 | 199 | H |
| 2 | 1.921 | 49.85 | PK-U | 31.3 | -33.3 | 47.85 | - | - | - | - | 68.2 | -20.35 | 208 | 102 | H |
| 3 | 2.4 | 48.8 | PK-U | 32.1 | -32.2 | 48.7 | - | - | - | - | 68.2 | -19.5 | 169 | 175 | H |
| 4 | 2.4 | 45.83 | PK-U | 32.1 | -32.2 | 45.73 | - | - | - | - | 68.2 | -22.47 | 170 | 103 | V |
| 6 | 16.567 | 32.43 | PK-U | 41.7 | -21 | 53.13 | - | - | - | - | 68.2 | -15.07 | 170 | 102 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

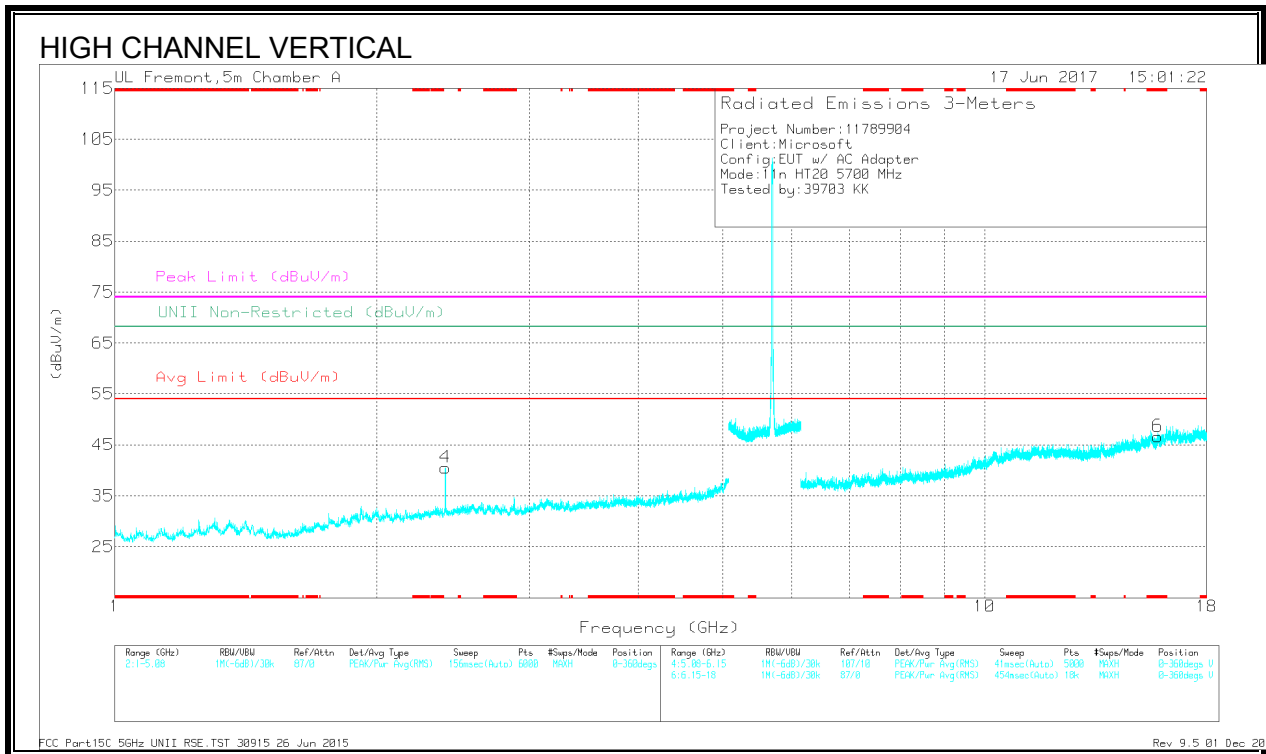
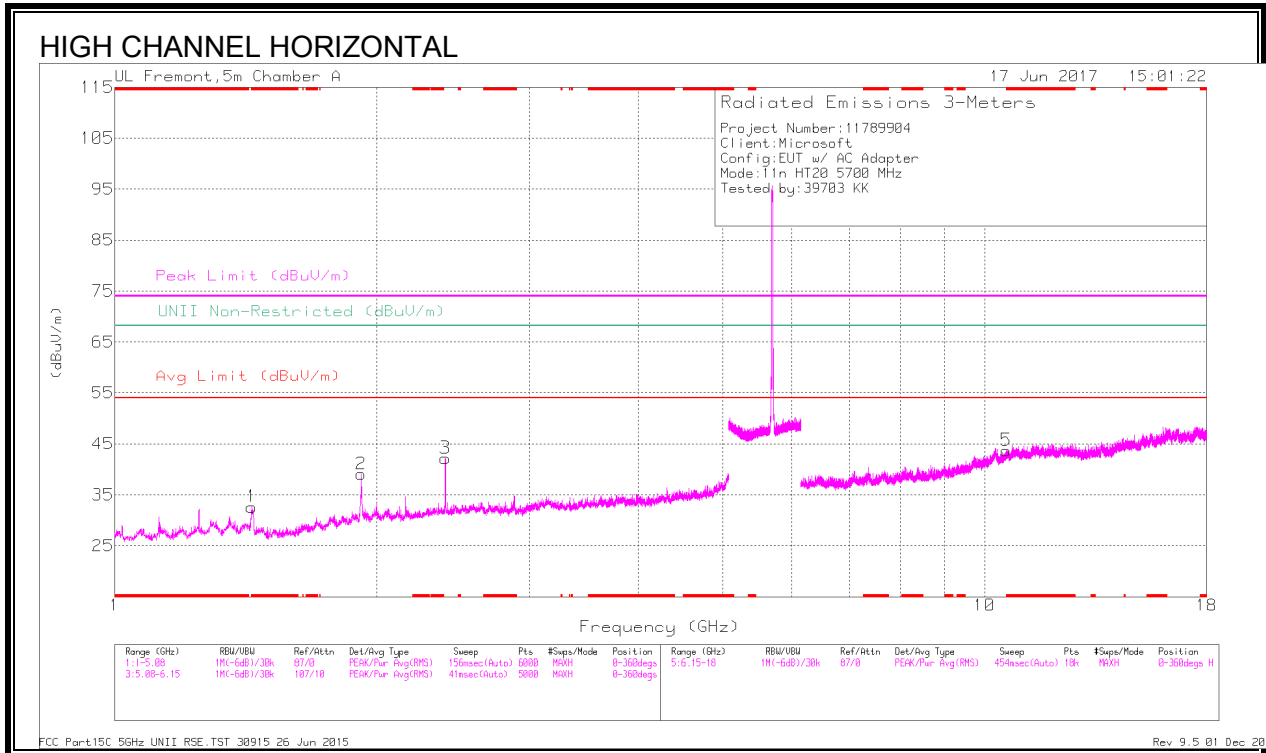


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.437 | 39.56 | PK-U | 28.8 | -33.5 | 34.86 | - | - | 74 | -39.14 | - | - | 213 | 147 | H |
| | * 1.44 | 27.84 | ADR | 28.8 | -33.6 | 23.04 | 54 | -30.96 | - | - | - | - | 213 | 147 | H |
| 5 | * 10.867 | 31.91 | PK-U | 37.9 | -19.5 | 50.31 | - | - | 74 | -23.69 | - | - | 170 | 199 | H |
| | * 10.865 | 20.78 | ADR | 37.9 | -19.5 | 39.18 | 54 | -14.82 | - | - | - | - | 170 | 199 | H |
| 2 | 1.921 | 40.17 | PK-U | 31.3 | -33.3 | 38.17 | - | - | - | - | 68.2 | -30.03 | 213 | 199 | H |
| 3 | 2.4 | 48.03 | PK-U | 32.1 | -32.3 | 47.83 | - | - | - | - | 68.2 | -20.37 | 129 | 224 | H |
| 4 | 2.4 | 45.16 | PK-U | 32.1 | -32.3 | 44.96 | - | - | - | - | 68.2 | -23.24 | 170 | 103 | V |
| 6 | 16.345 | 32.34 | PK-U | 41.4 | -20.1 | 53.64 | - | - | - | - | 68.2 | -14.56 | 170 | 102 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filtr/Pad (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 | * 1.439 | 49.93 | PK-U | 28.8 | -33.5 | 45.23 | - | - | 74 | -28.77 | - | - | 221 | 243 | H |
| | * 1.439 | 30.14 | ADR | 28.8 | -33.5 | 25.44 | 54 | -28.56 | - | - | - | - | 221 | 243 | H |
| 6 | * 15.812 | 32.06 | PK-U | 40.5 | -19.5 | 53.06 | - | - | 74 | -20.94 | - | - | 201 | 200 | V |
| | * 15.812 | 21.12 | ADR | 40.5 | -19.5 | 42.12 | 54 | -11.88 | - | - | - | - | 201 | 200 | V |
| 2 | 1.921 | 52.62 | PK-U | 31.3 | -33.3 | 50.62 | - | - | - | - | 68.2 | -17.58 | 172 | 119 | H |
| 3 | 2.4 | 48.54 | PK-U | 32.1 | -32.3 | 48.34 | - | - | - | - | 68.2 | -19.86 | 135 | 259 | H |
| 4 | 2.4 | 47.23 | PK-U | 32.1 | -32.3 | 47.03 | - | - | - | - | 68.2 | -21.17 | 201 | 252 | V |
| 5 | 10.592 | 32.56 | PK-U | 37.8 | -20.4 | 49.96 | - | - | - | - | 68.2 | -18.24 | 201 | 102 | H |

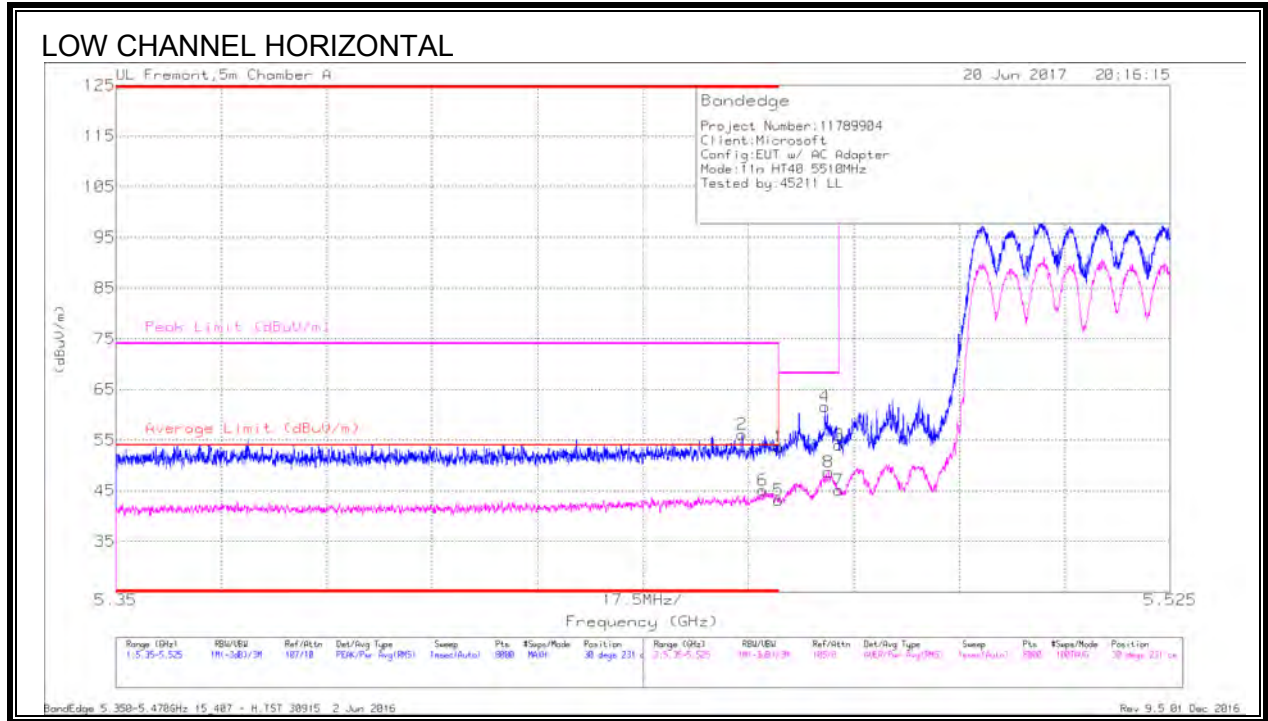
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.11. 11n HT40 2TX MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

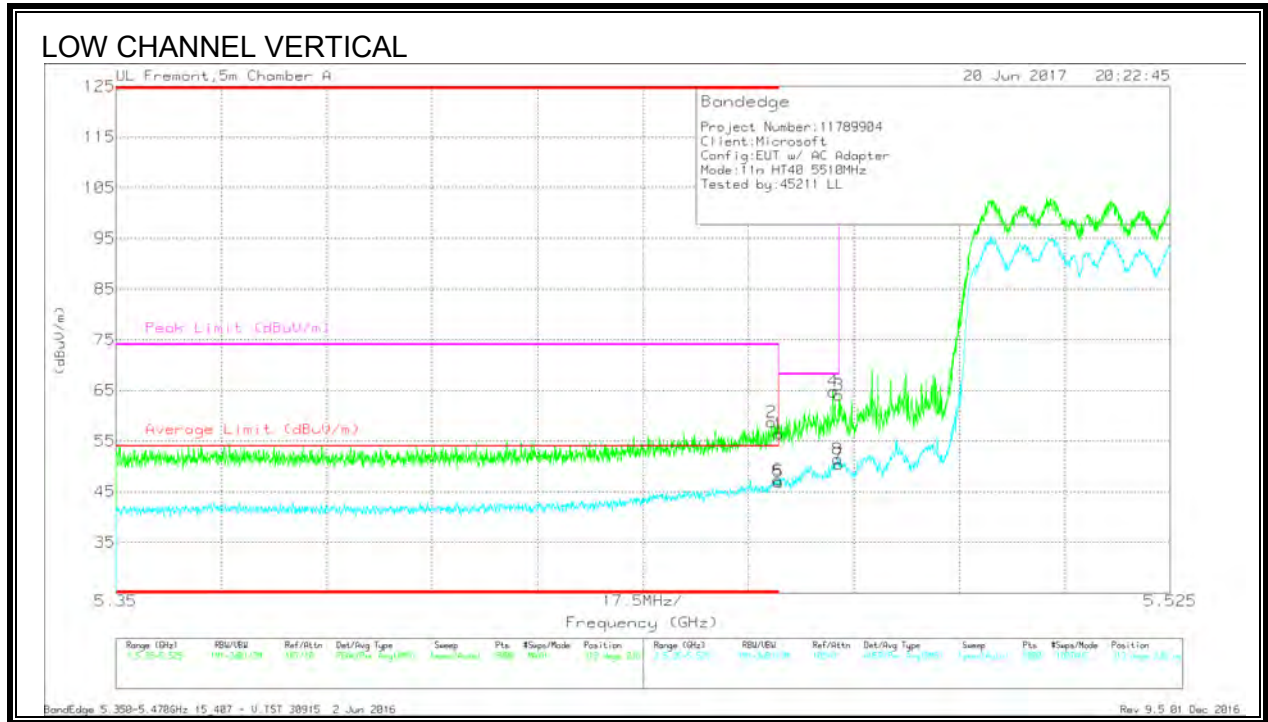


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.46 | 38.1 | Pk | 34.4 | -18.9 | 53.6 | - | - | 74 | -20.4 | 30 | 231 | H |
| 2 | * 5.454 | 40.55 | PK | 34.4 | -18.8 | 56.15 | - | - | 74 | -17.85 | 30 | 231 | H |
| 5 | * 5.46 | 27.62 | RMS | 34.4 | -18.9 | 43.12 | 54 | -10.88 | - | - | 30 | 231 | H |
| 6 | * 5.457 | 29.47 | RMS | 34.4 | -18.8 | 45.07 | 54 | -8.93 | - | - | 30 | 231 | H |
| 4 | 5.468 | 45.95 | Pk | 34.4 | -18.7 | 61.65 | - | - | 68.2 | -6.55 | 30 | 231 | H |
| 8 | 5.468 | 32.94 | RMS | 34.4 | -18.7 | 48.64 | - | - | - | - | 30 | 231 | H |
| 3 | 5.47 | 38.26 | Pk | 34.4 | -18.7 | 53.96 | - | - | 68.2 | -14.24 | 30 | 231 | H |
| 7 | 5.47 | 29.38 | RMS | 34.4 | -18.7 | 45.08 | - | - | - | - | 30 | 231 | H |

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

Pk - Peak detector

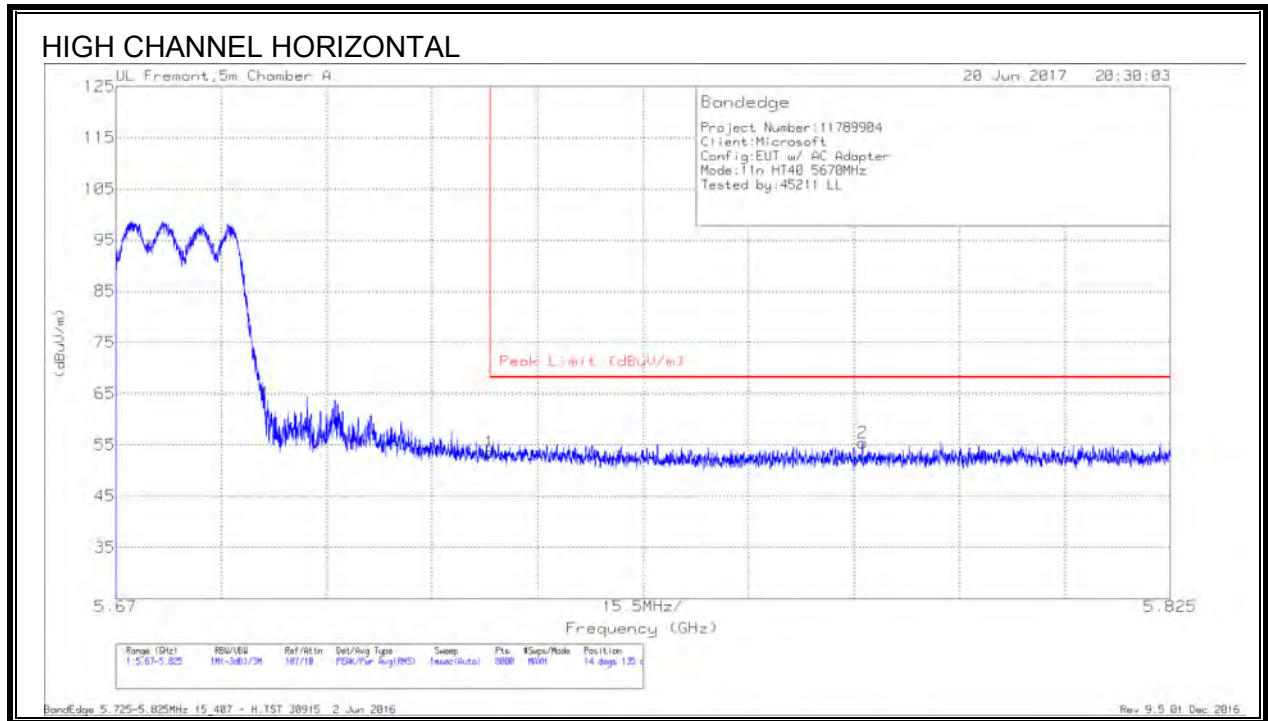
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.46 | 40.92 | Pk | 34.4 | -18.9 | 56.42 | - | - | 74 | -17.58 | 313 | 236 | V |
| 2 | * 5.459 | 43.23 | Pk | 34.4 | -18.9 | 58.73 | - | - | 74 | -15.27 | 313 | 236 | V |
| 5 | * 5.46 | 31.4 | RMS | 34.4 | -18.9 | 46.9 | 54 | -7.1 | - | - | 313 | 236 | V |
| 6 | * 5.46 | 31.86 | RMS | 34.4 | -18.9 | 47.36 | 54 | -6.64 | - | - | 313 | 236 | V |
| 4 | 5.469 | 49.06 | Pk | 34.4 | -18.7 | 64.76 | - | - | 68.2 | -3.44 | 313 | 236 | V |
| 3 | 5.47 | 48.4 | Pk | 34.4 | -18.7 | 64.1 | - | - | 68.2 | -4.1 | 313 | 236 | V |
| 7 | 5.47 | 34.69 | RMS | 34.4 | -18.7 | 50.39 | - | - | - | - | 313 | 236 | V |
| 8 | 5.47 | 35.72 | RMS | 34.4 | -18.7 | 51.42 | - | - | - | - | 313 | 236 | V |

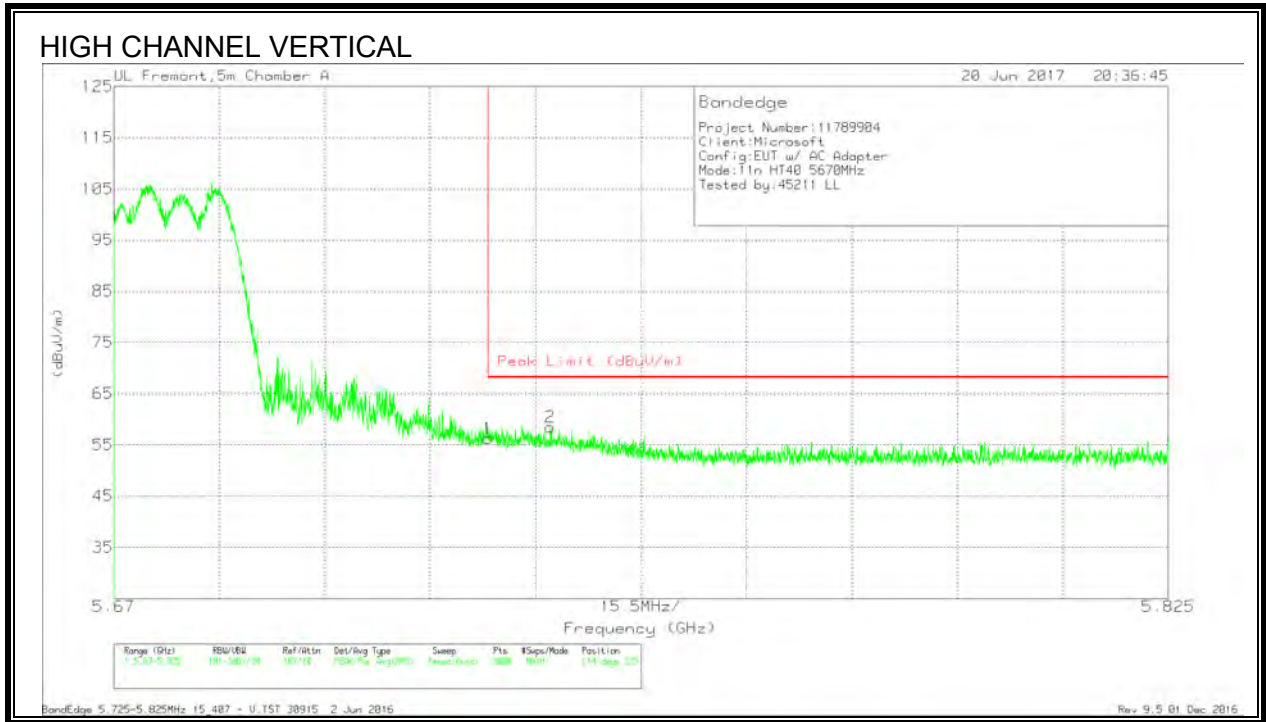
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cb/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 37.73 | Pk | 34.8 | -19 | 53.53 | 68.2 | -14.67 | 14 | 135 | H |
| 2 | 5.78 | 39.52 | Pk | 34.7 | -18.8 | 55.42 | 68.2 | -12.78 | 14 | 135 | H |

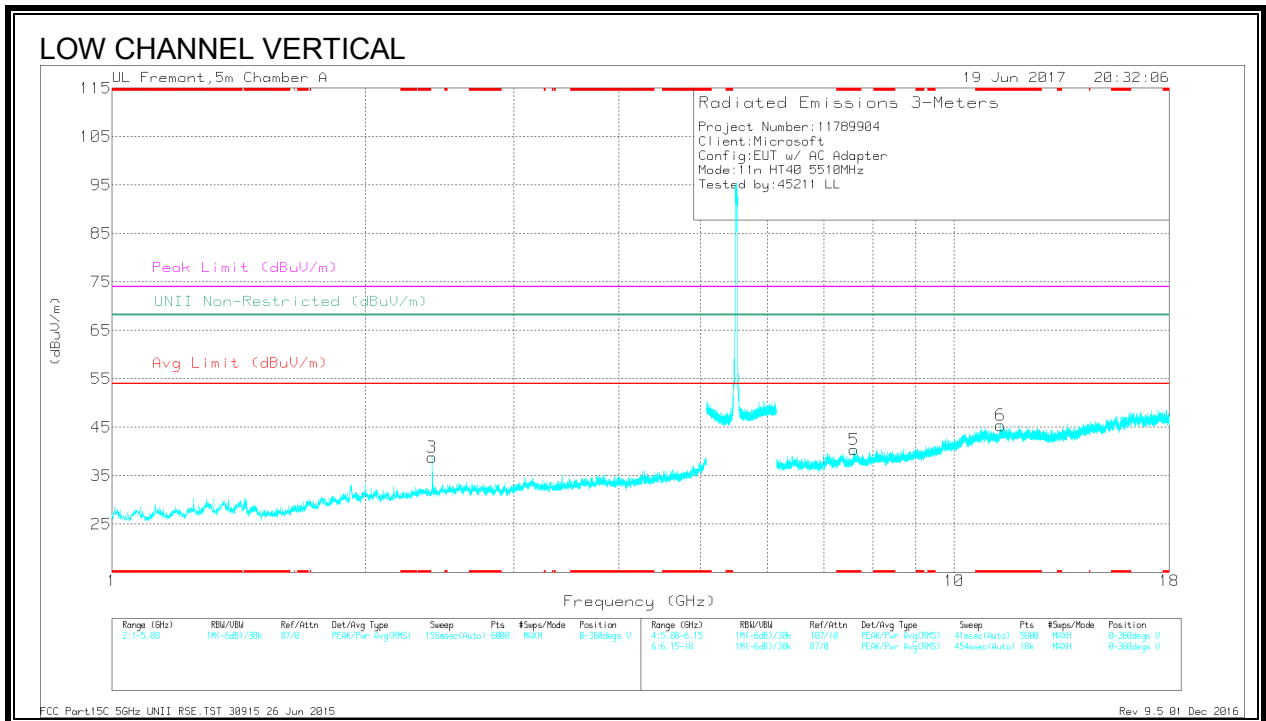
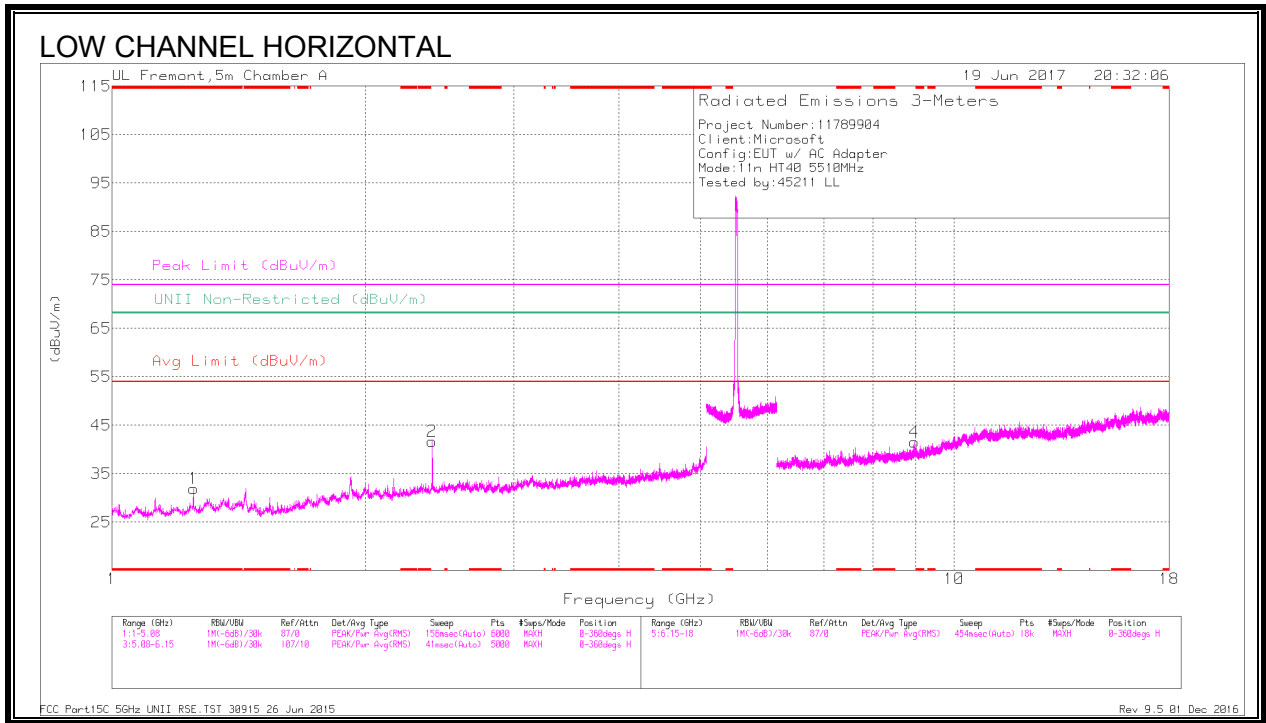
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 5.725 | 40.49 | Pk | 34.8 | -19 | 56.29 | 68.2 | -11.91 | 114 | 235 | V |
| 2 | 5.734 | 42.64 | Pk | 34.8 | -19 | 58.44 | 68.2 | -9.76 | 114 | 235 | V |

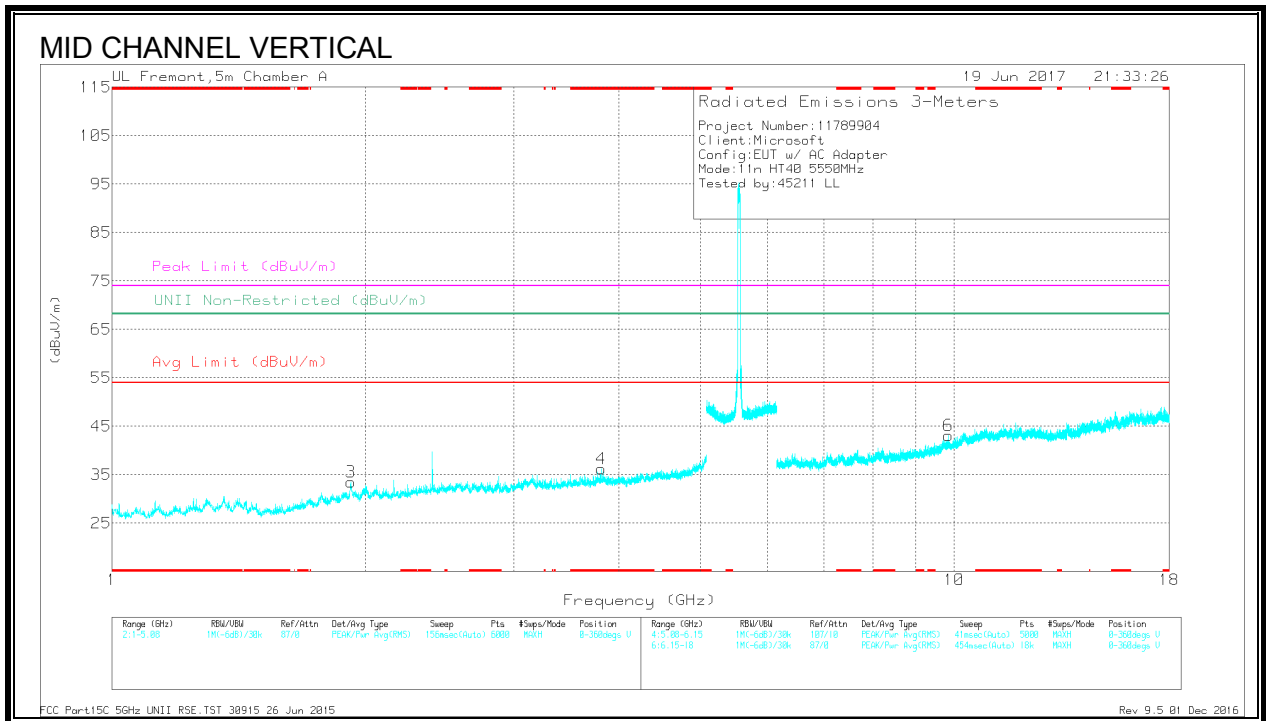
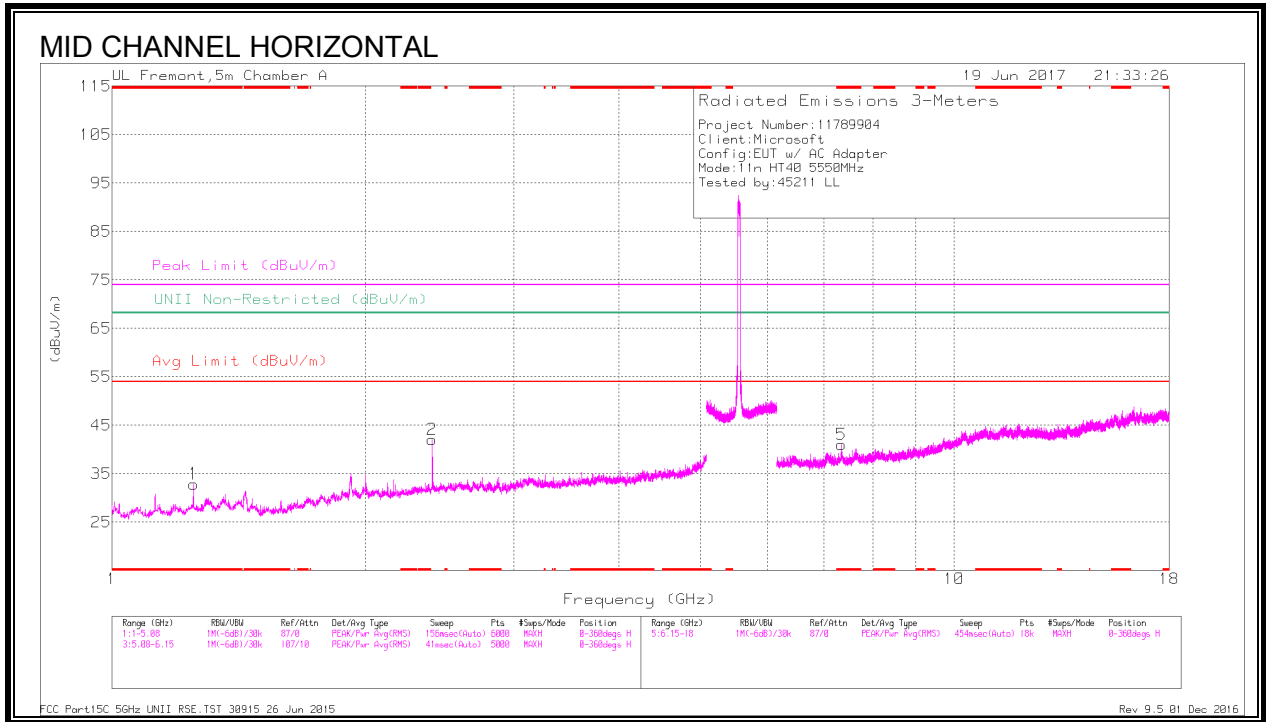
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (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 | * 1.25 | 43.49 | PK-U | 29.1 | -34.3 | 38.29 | - | - | 74 | -35.71 | - | - | 263 | 102 | H |
| | * 1.25 | 35.44 | ADR | 29.1 | -34.3 | 30.24 | 54 | -23.76 | - | - | - | - | 263 | 102 | H |
| 5 | * 7.604 | 33.17 | PK-U | 35.6 | -23.5 | 45.27 | - | - | 74 | -28.73 | - | - | 189 | 200 | V |
| | * 7.607 | 22.19 | ADR | 35.6 | -23.4 | 34.39 | 54 | -19.61 | - | - | - | - | 189 | 200 | V |
| 6 | * 11.344 | 31.64 | PK-U | 37.9 | -19.3 | 50.24 | - | - | 74 | -23.76 | - | - | 245 | 200 | V |
| | * 11.343 | 19.97 | ADR | 37.9 | -19.3 | 38.57 | 54 | -15.43 | - | - | - | - | 245 | 200 | V |
| 2 | 2.4 | 47.75 | PK-U | 32.1 | -32.2 | 47.65 | - | - | - | - | 68.2 | -20.55 | 353 | 239 | H |
| 3 | 2.4 | 44.5 | PK-U | 32.1 | -32.3 | 44.3 | - | - | - | - | 68.2 | -23.9 | 233 | 264 | V |
| 4 | 8.966 | 32.78 | PK-U | 36 | -22.6 | 45.96 | - | - | - | - | 68.2 | -22.22 | 309 | 200 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

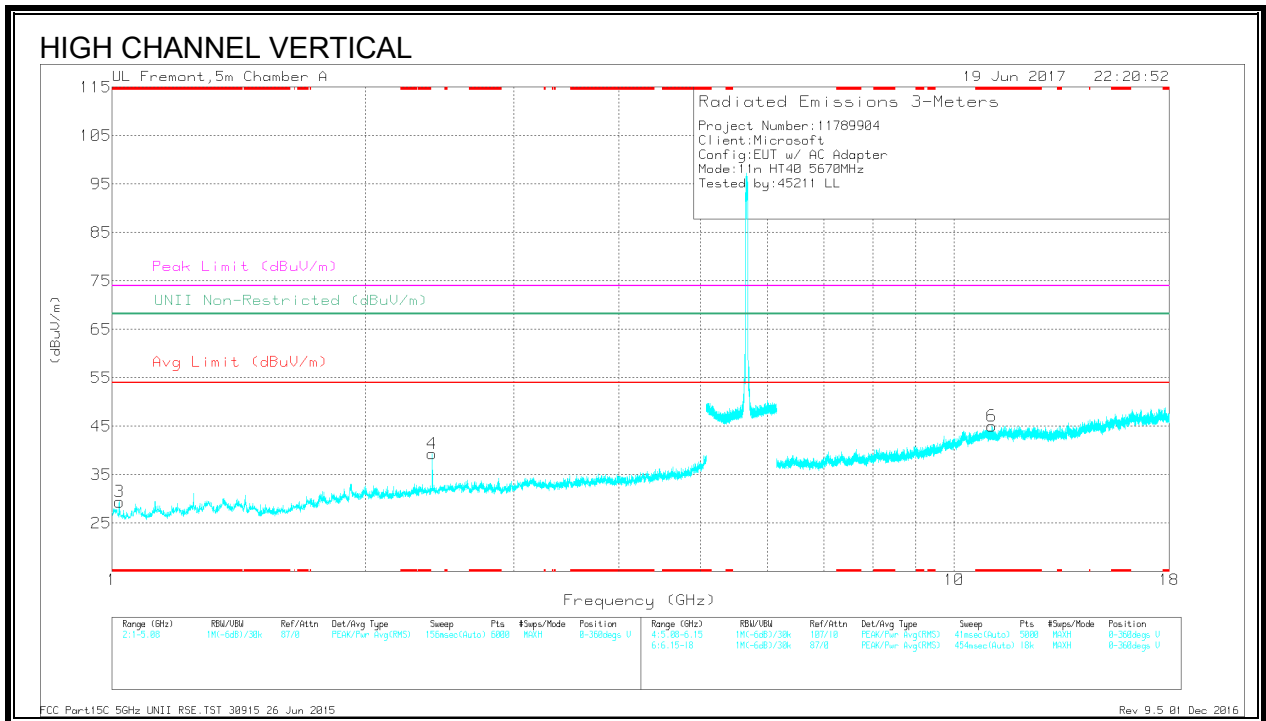
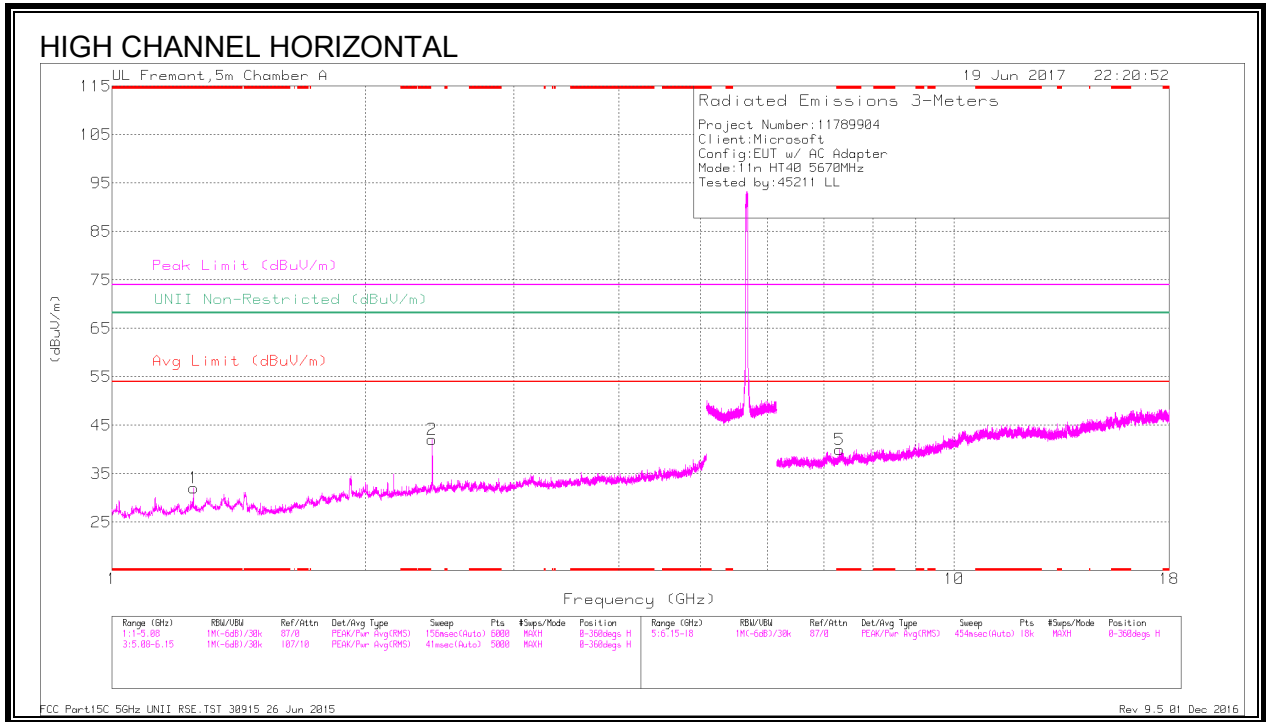


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.25 | 43.9 | PK-U | 29.1 | -34.3 | 38.7 | - | - | 74 | -35.3 | - | - | 259 | 117 | H |
| | * 1.25 | 35.99 | ADR | 29.1 | -34.3 | 30.79 | 54 | -23.21 | - | - | - | - | 259 | 117 | H |
| 4 | * 3.808 | 37.64 | PK-U | 33.1 | -29.6 | 41.14 | - | - | 74 | -32.86 | - | - | 145 | 377 | V |
| | * 3.809 | 26.12 | ADR | 33.1 | -29.6 | 29.62 | 54 | -24.38 | - | - | - | - | 145 | 377 | V |
| 5 | * 7.347 | 33.68 | PK-U | 35.5 | -23.2 | 45.98 | - | - | 74 | -28.02 | - | - | 92 | 102 | H |
| | * 7.348 | 21.65 | ADR | 35.5 | -23.2 | 33.95 | 54 | -20.05 | - | - | - | - | 92 | 102 | H |
| 3 | 1.92 | 50.97 | PK-U | 31.3 | -33.3 | 48.97 | - | - | - | - | 68.2 | -19.23 | 77 | 264 | V |
| 2 | 2.4 | 53.51 | PK-U | 32.1 | -32.2 | 53.41 | - | - | - | - | 68.2 | -14.79 | 350 | 243 | H |
| 6 | 9.843 | 32.99 | PK-U | 36.9 | -21.7 | 48.19 | - | - | - | - | 68.2 | -20.01 | 201 | 102 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

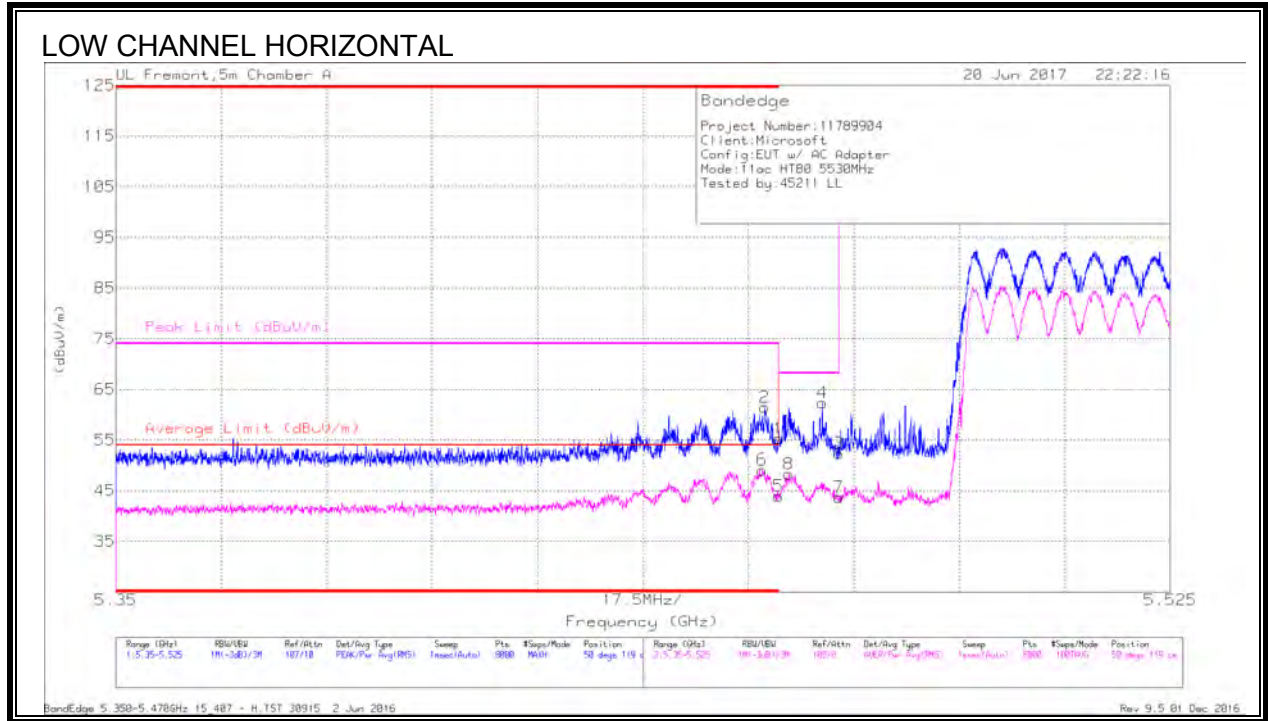


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBim) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.25 | 43.72 | PK-U | 29.1 | -34.3 | 38.52 | - | - | 74 | -35.48 | - | - | 260 | 114 | H |
| | * 1.25 | 35.9 | ADR | 29.1 | -34.3 | 30.7 | 54 | -23.3 | - | - | - | - | 260 | 114 | H |
| 3 | * 1.02 | 42.56 | PK-U | 27.8 | -34.2 | 36.16 | - | - | 74 | -37.84 | - | - | 141 | 196 | V |
| | * 1.02 | 34.31 | ADR | 27.8 | -34.2 | 27.91 | 54 | -26.09 | - | - | - | - | 141 | 196 | V |
| 5 | * 7.307 | 33.32 | PK-U | 35.5 | -23.9 | 44.92 | - | - | 74 | -29.08 | - | - | 307 | 102 | H |
| | * 7.307 | 21.75 | ADR | 35.5 | -23.9 | 33.35 | 54 | -20.65 | - | - | - | - | 307 | 102 | H |
| 6 | * 11.079 | 32.68 | PK-U | 37.8 | -19.7 | 50.78 | - | - | 74 | -23.22 | - | - | 19 | 102 | V |
| | * 11.079 | 20.55 | ADR | 37.8 | -19.6 | 38.75 | 54 | -15.25 | - | - | - | - | 19 | 102 | V |
| 2 | 2.4 | 47.6 | PK-U | 32.1 | -32.2 | 47.5 | - | - | - | - | 68.2 | -20.7 | 353 | 239 | H |
| 4 | 2.4 | 44.91 | PK-U | 32.1 | -32.3 | 44.71 | - | - | - | - | 68.2 | -23.49 | 274 | 198 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

10.1.12. 11ac VHT80 2TX MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

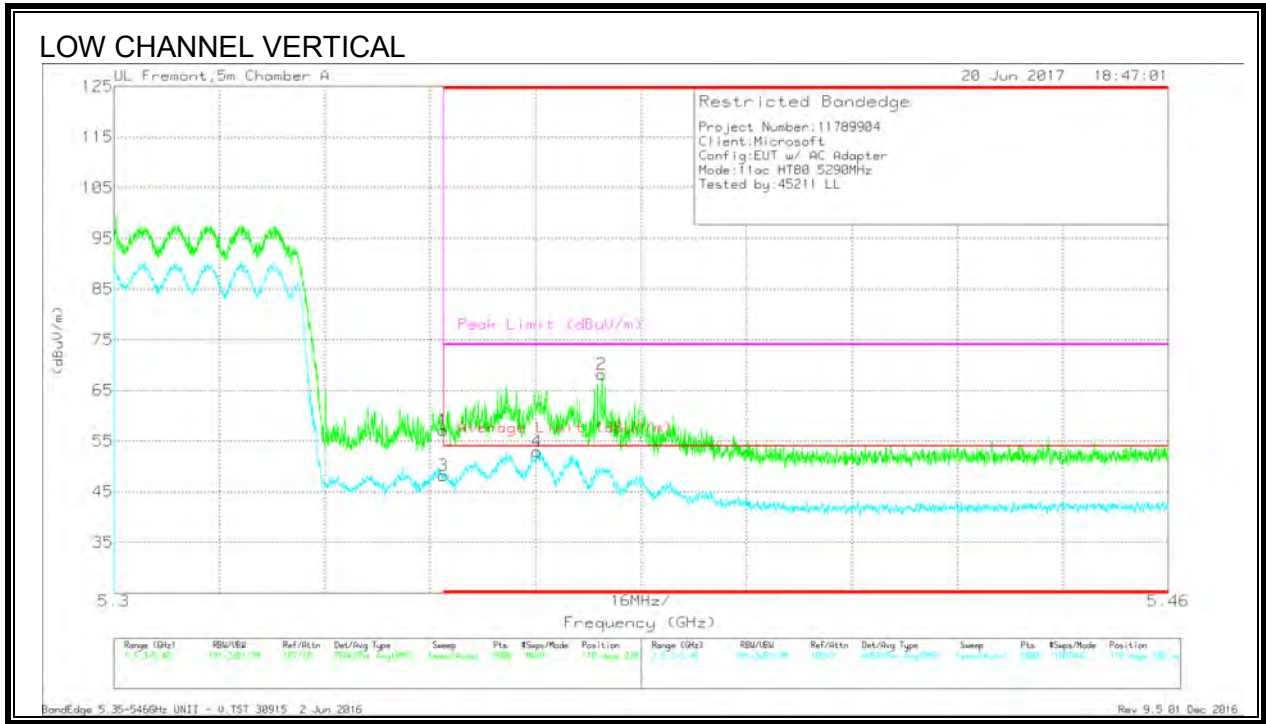


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.46 | 39.77 | Pk | 34.4 | -18.9 | 55.27 | - | - | 74 | -18.73 | 50 | 119 | H |
| 2 | * 5.458 | 46.97 | Pk | 34.4 | -18.9 | 61.47 | - | - | 74 | -12.53 | 50 | 119 | H |
| 5 | * 5.46 | 28.5 | RMS | 34.4 | -18.9 | 44 | 54 | -10 | - | - | 50 | 119 | H |
| 6 | * 5.457 | 33.51 | RMS | 34.4 | -18.8 | 49.11 | 54 | -4.89 | - | - | 50 | 119 | H |
| 8 | 5.462 | 32.84 | RMS | 34.4 | -18.9 | 48.34 | - | - | - | - | 50 | 119 | H |
| 4 | 5.467 | 46.54 | Pk | 34.4 | -18.6 | 62.34 | - | - | 68.2 | -5.86 | 50 | 119 | H |
| 3 | 5.47 | 36.71 | Pk | 34.4 | -18.7 | 52.41 | - | - | 68.2 | -15.79 | 50 | 119 | H |
| 7 | 5.47 | 27.99 | RMS | 34.4 | -18.7 | 43.69 | - | - | - | - | 50 | 119 | H |

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

Pk - Peak detector

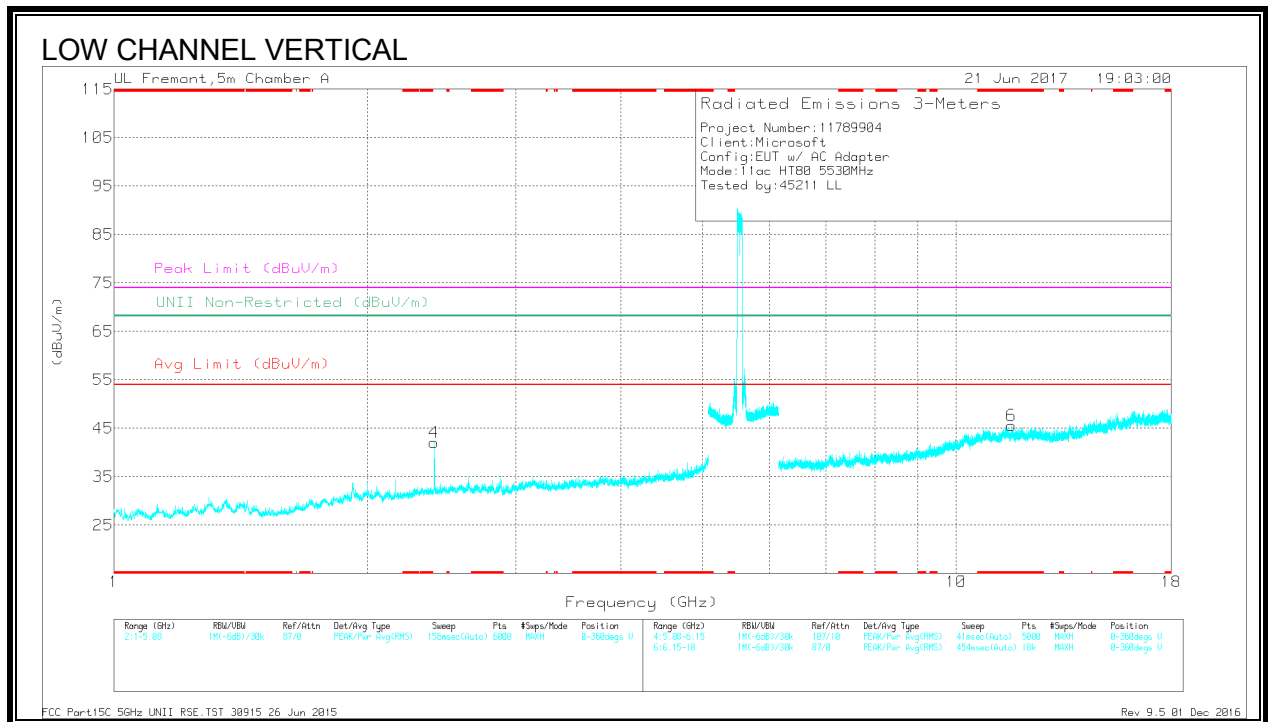
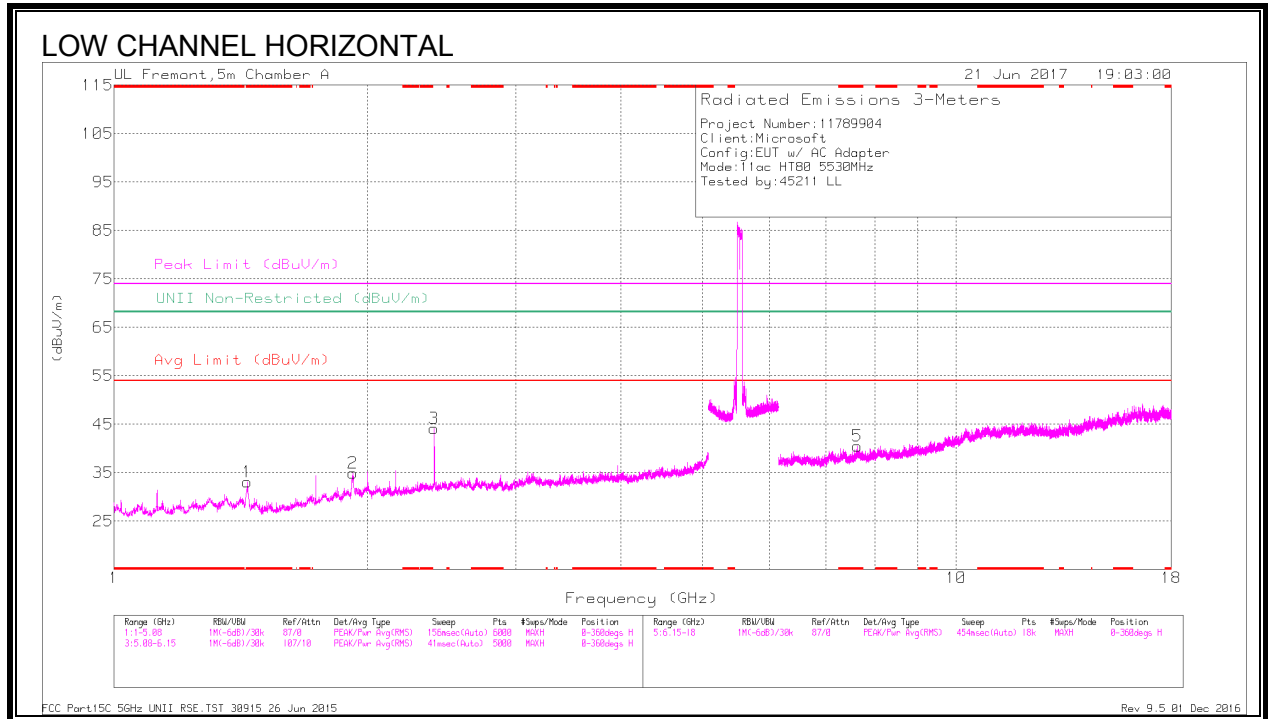
RMS - RMS detection



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 5.35 | 41.72 | Pk | 34.3 | -18.9 | 57.12 | - | - | 74 | -16.88 | 110 | 238 | V |
| 2 | * 5.374 | 52.43 | Pk | 34.3 | -18.6 | 68.13 | - | - | 74 | -5.87 | 110 | 238 | V |
| 3 | * 5.35 | 32.79 | RMS | 34.3 | -18.9 | 48.19 | 54 | -5.81 | - | - | 110 | 238 | V |
| 4 | * 5.364 | 37.34 | RMS | 34.3 | -18.7 | 52.94 | 54 | -1.06 | - | - | 110 | 238 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

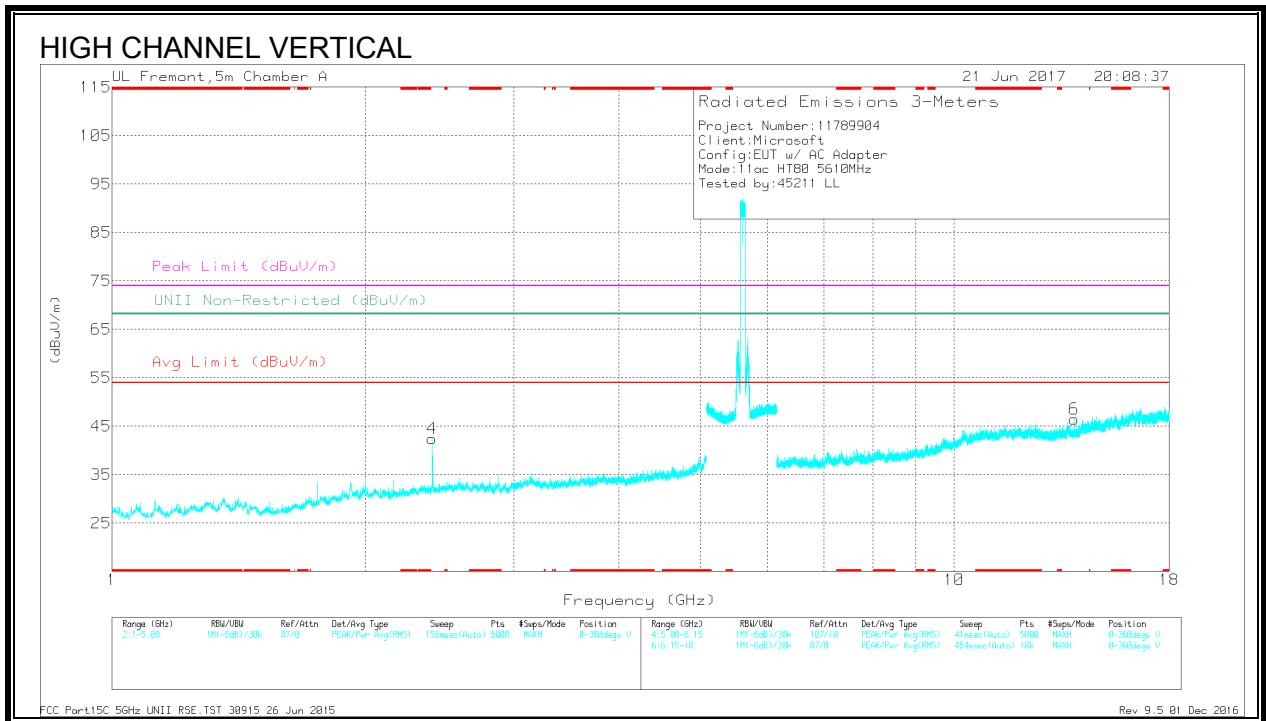
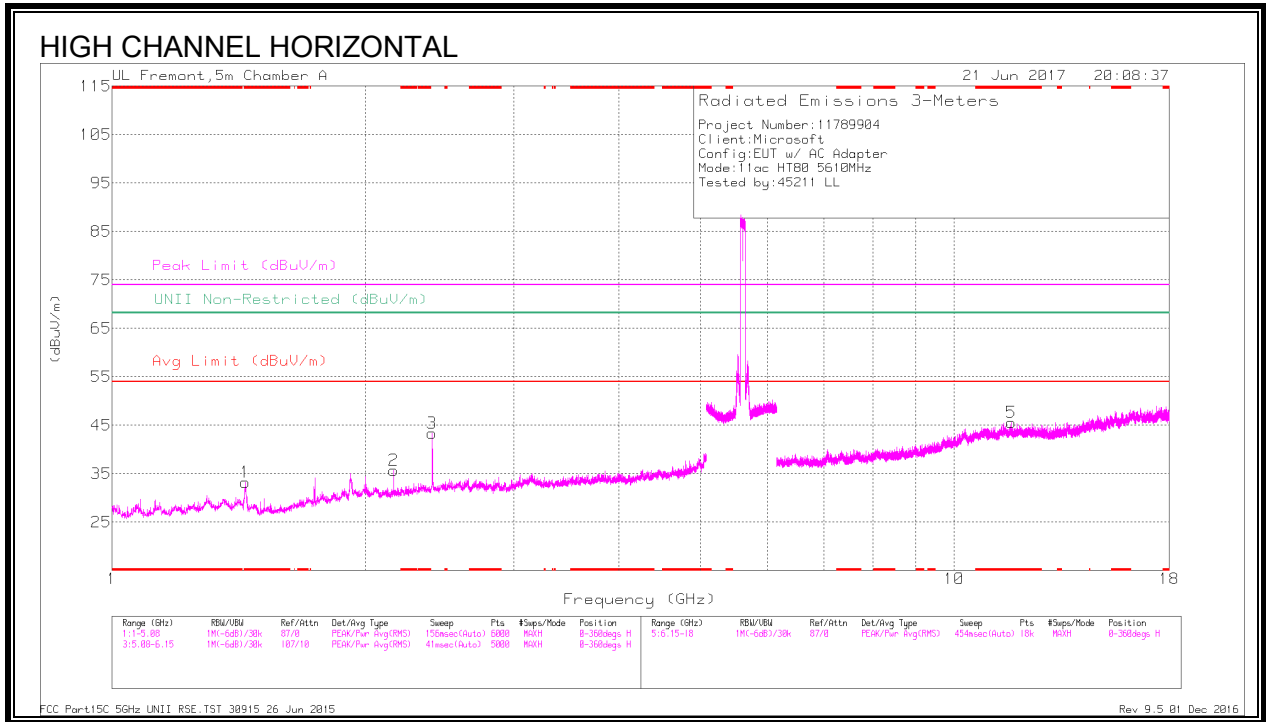


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.44 | 52.67 | PK-U | 28.8 | -33.6 | 47.87 | - | - | 74 | -26.13 | - | - | 178 | 108 | H |
| | * 1.44 | 33.49 | ADR | 28.8 | -33.6 | 28.69 | 54 | -25.31 | - | - | - | - | 178 | 108 | H |
| 5 | * 7.63 | 33.47 | PK-U | 35.6 | -23.2 | 45.87 | - | - | 74 | -28.13 | - | - | 273 | 153 | H |
| | * 7.629 | 22.16 | ADR | 35.6 | -23.2 | 34.56 | 54 | -19.44 | - | - | - | - | 273 | 153 | H |
| 6 | * 11.626 | 32.26 | PK-U | 38.2 | -19.7 | 50.76 | - | - | 74 | -23.24 | - | - | 336 | 200 | V |
| | * 11.628 | 20.43 | ADR | 38.2 | -19.6 | 39.03 | 54 | -14.97 | - | - | - | - | 336 | 200 | V |
| 2 | 1.921 | 53.13 | PK-U | 31.3 | -33.3 | 51.13 | - | - | - | - | 68.2 | -17.07 | 180 | 227 | H |
| 3 | 2.4 | 50.57 | PK-U | 32.1 | -32.2 | 50.47 | - | - | - | - | 68.2 | -17.73 | 163 | 210 | H |
| 4 | 2.4 | 48.24 | PK-U | 32.1 | -32.3 | 48.04 | - | - | - | - | 68.2 | -20.16 | 162 | 102 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (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 | * 1.44 | 52.51 | PK-U | 28.8 | -33.5 | 47.81 | - | - | 74 | -26.19 | - | - | 177 | 113 | H |
| | * 1.44 | 33.34 | ADR | 28.8 | -33.6 | 28.54 | 54 | -25.46 | - | - | - | - | 177 | 113 | H |
| 5 | * 11.686 | 31.59 | PK-U | 38.3 | -19.7 | 50.19 | - | - | 74 | -23.81 | - | - | 170 | 103 | H |
| | * 11.687 | 20.34 | ADR | 38.3 | -19.7 | 38.94 | 54 | -15.06 | - | - | - | - | 170 | 103 | H |
| 2 | 2.16 | 42.48 | PK-U | 31.4 | -32.8 | 41.08 | - | - | - | - | 68.2 | -27.12 | 168 | 200 | H |
| 3 | 2.4 | 50.27 | PK-U | 32.1 | -32.3 | 50.07 | - | - | - | - | 68.2 | -18.13 | 163 | 210 | H |
| 4 | 2.4 | 47.23 | PK-U | 32.1 | -32.3 | 47.03 | - | - | - | - | 68.2 | -21.17 | 162 | 103 | V |
| 6 | 13.876 | 32.92 | PK-U | 38.6 | -21 | 50.52 | - | - | - | - | 68.2 | -17.68 | 219 | 103 | V |

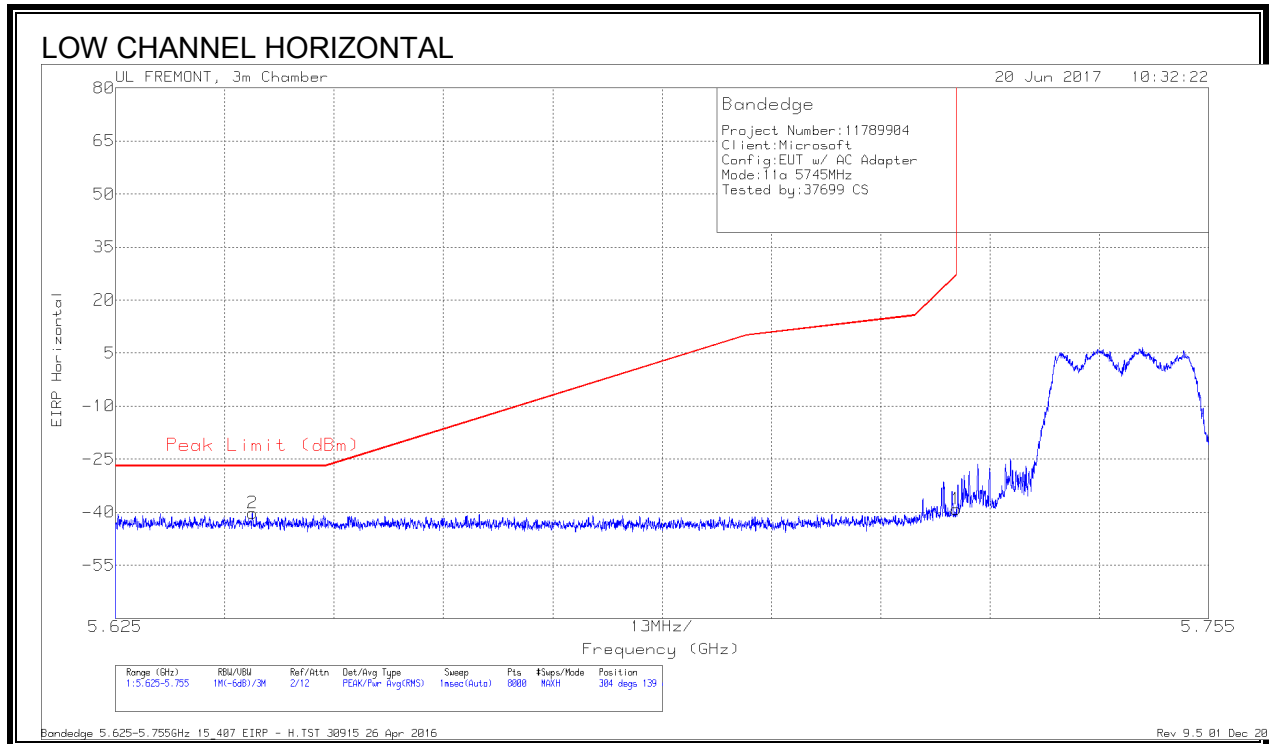
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

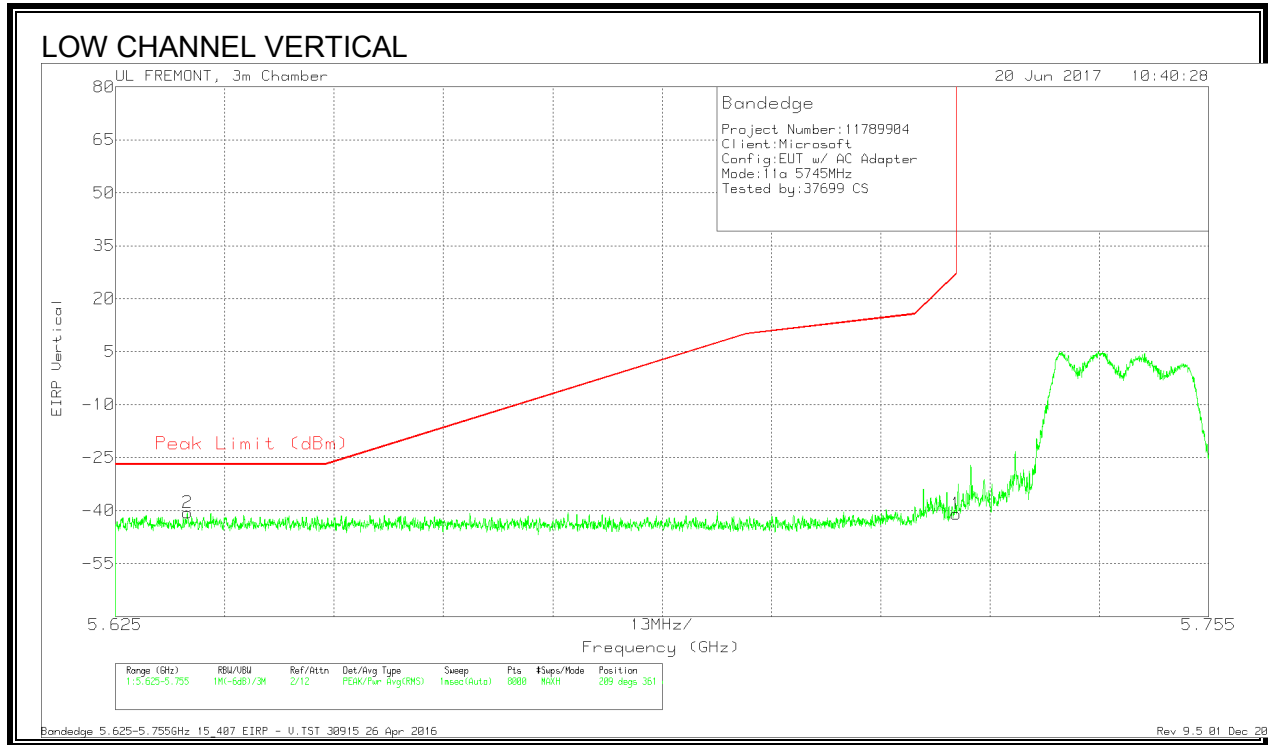
10.1.13. 11a 2TX MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.641 | -66.83 | Pk | 34.6 | -19.8 | 11.8 | -40.23 | -27 | -13.23 | 304 | 139 | H |
| 1 | 5.725 | -65.81 | PK | 34.7 | -19.8 | 11.8 | -39.11 | 27 | -66.11 | 304 | 139 | H |

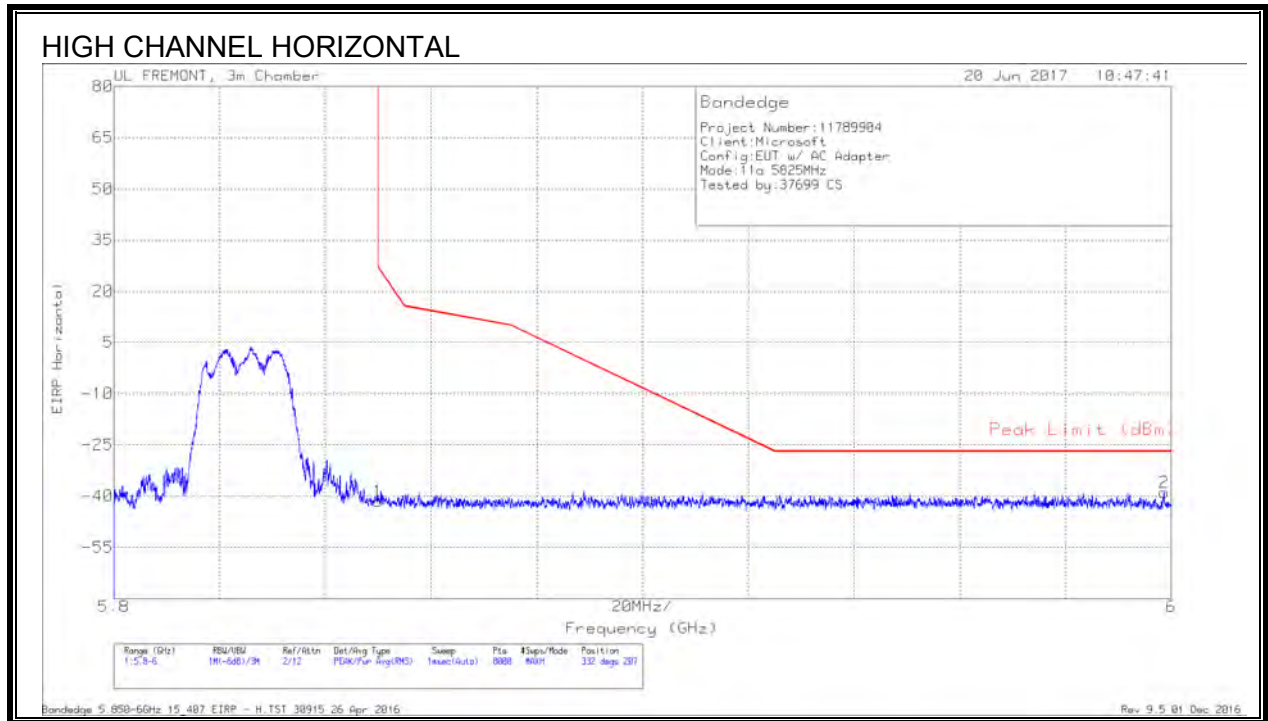
Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.634 | -67.18 | PK | 34.6 | -19.9 | 11.8 | -40.68 | -27 | -13.68 | 209 | 361 | V |
| 1 | 5.725 | -67.61 | PK | 34.7 | -19.8 | 11.8 | -40.91 | 27 | -67.91 | 209 | 361 | V |

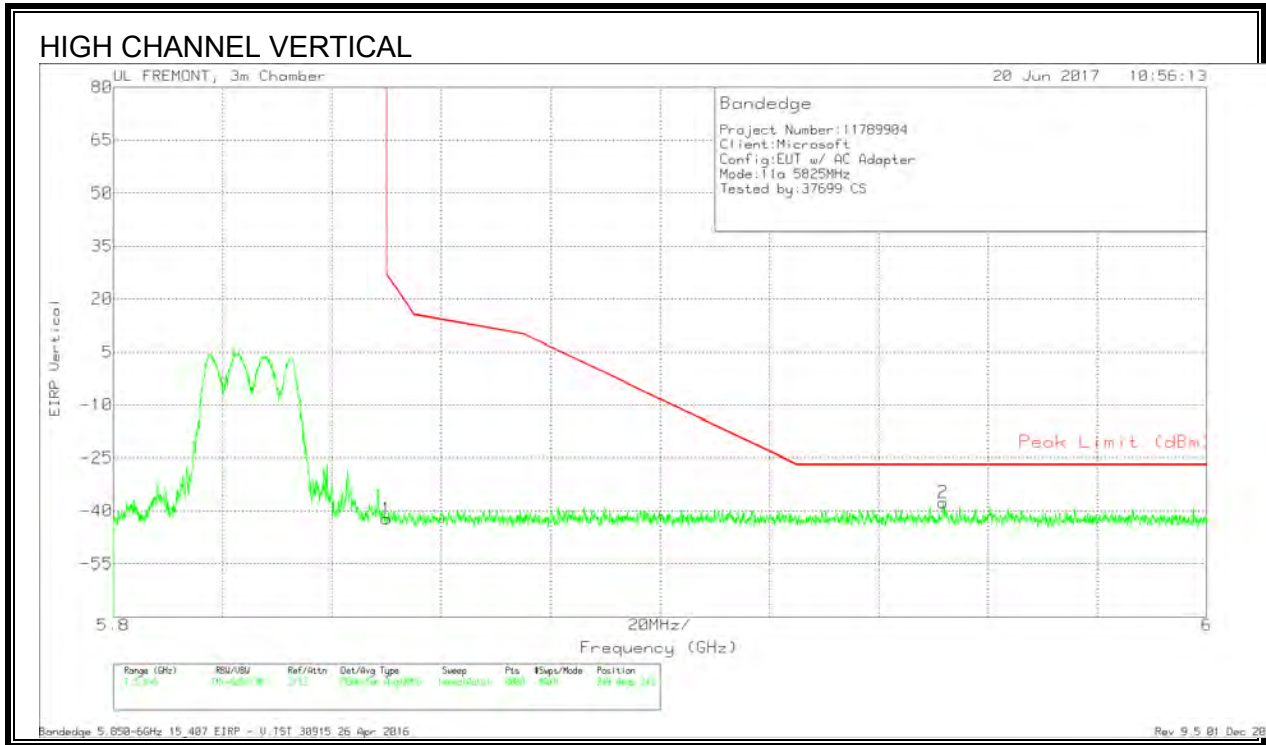
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -68.61 | Pk | 34.8 | -19.5 | 11.8 | -41.51 | 26.99 | -68.5 | 332 | 207 | H |
| 2 | 5.999 | -66.67 | Pk | 35.1 | -19.2 | 11.8 | -38.97 | -27 | -11.97 | 332 | 207 | H |

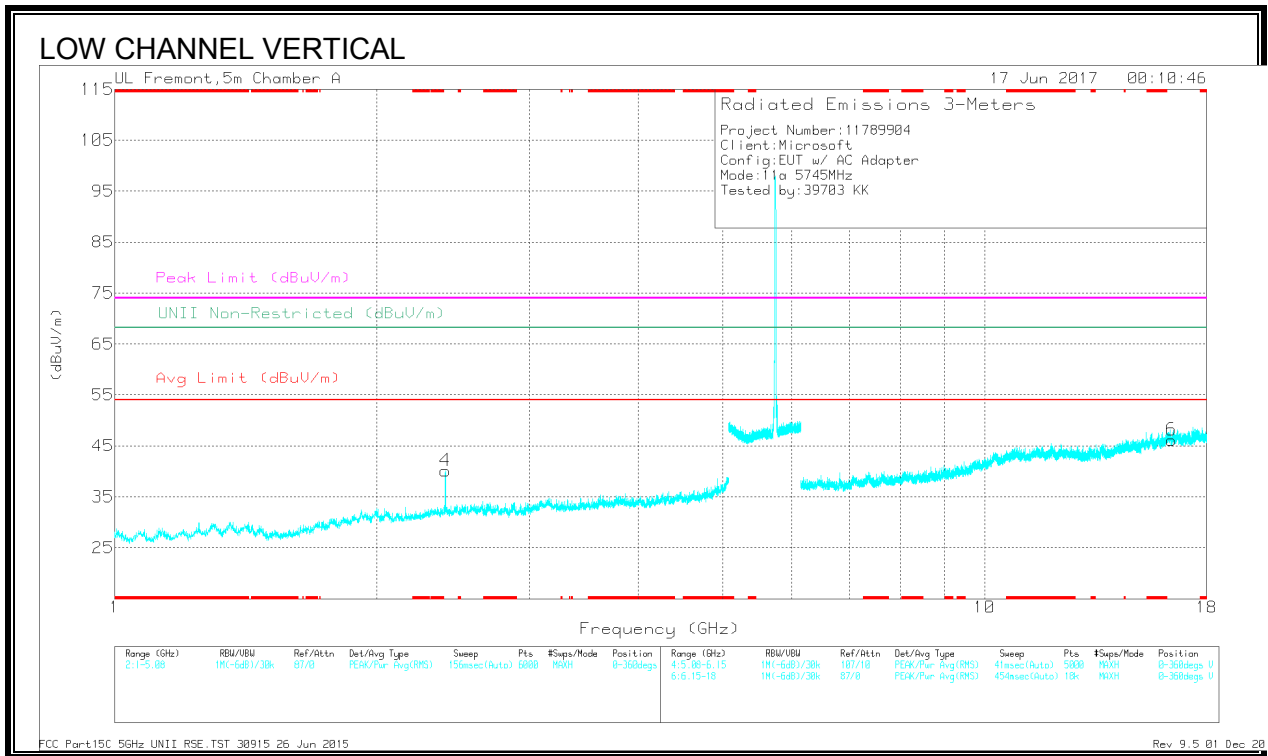
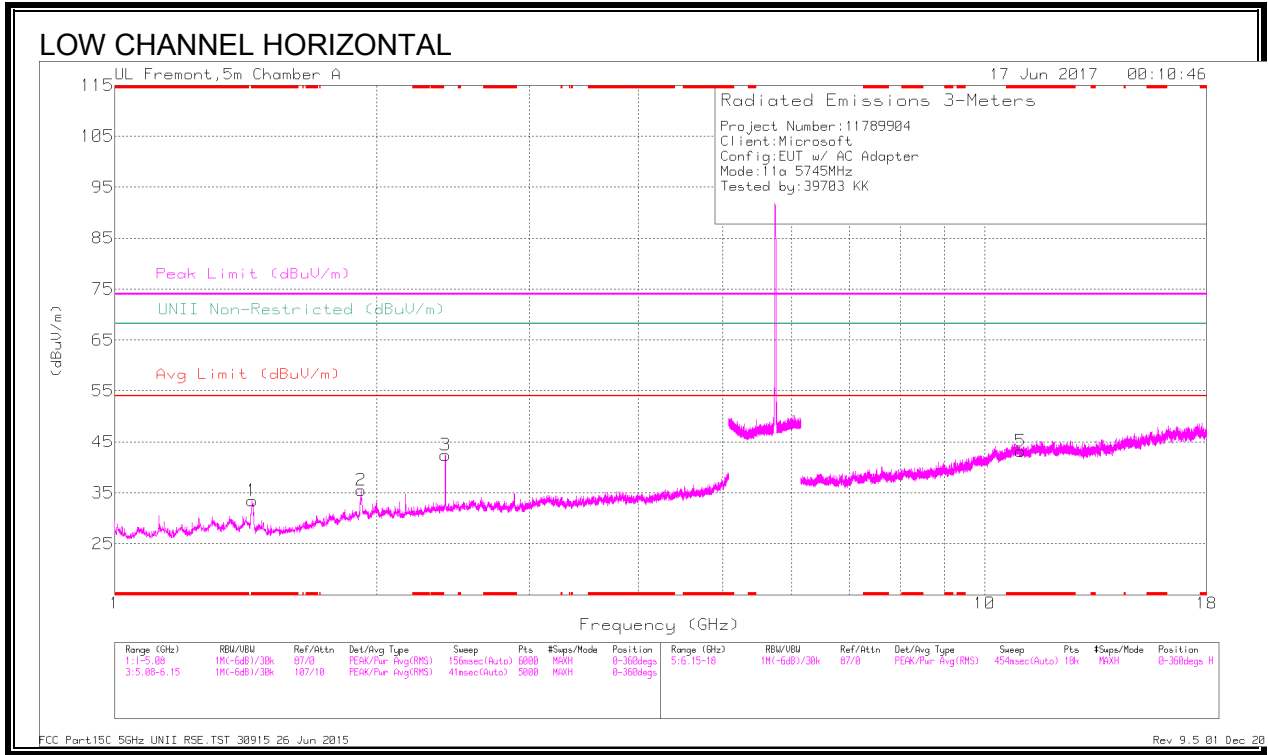
Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -69.37 | PK | 34.8 | -19.5 | 11.8 | -42.27 | 26.99 | -69.26 | 249 | 343 | V |
| 2 | 5.952 | -65.21 | PK | 35 | -19.2 | 11.8 | -37.61 | -27 | -10.61 | 249 | 343 | V |

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

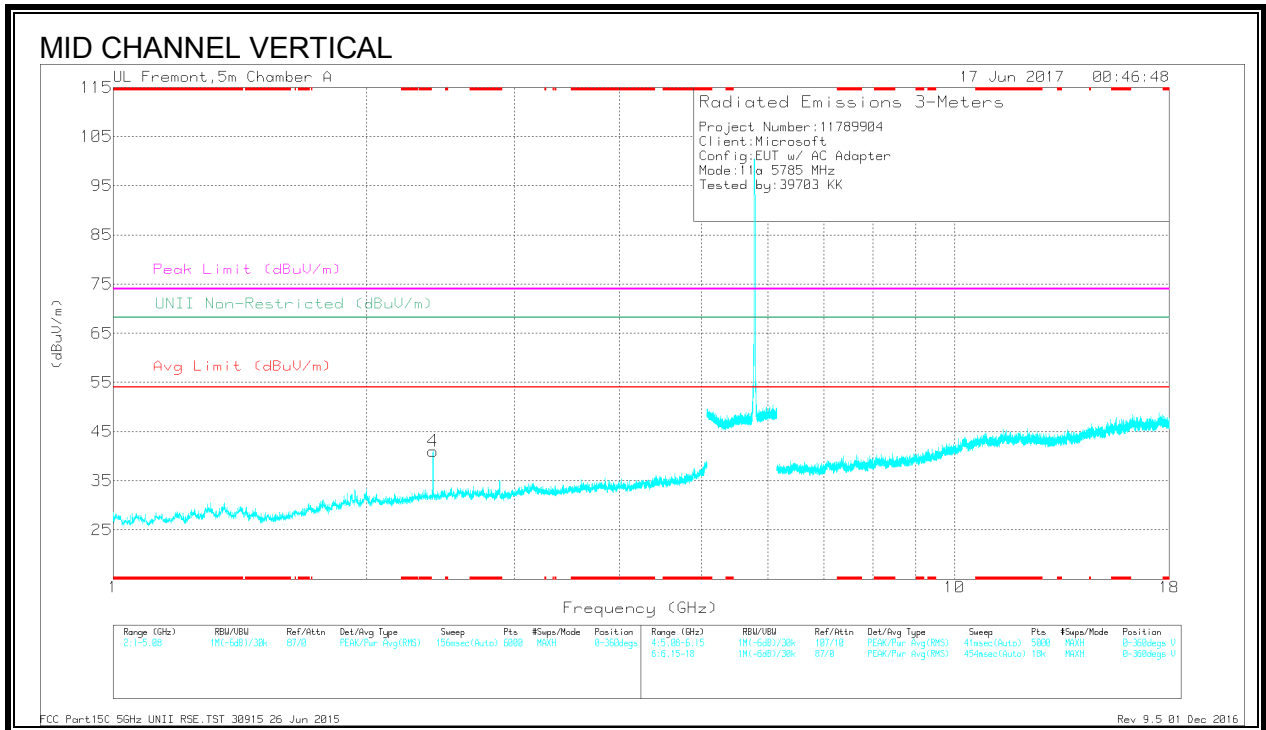
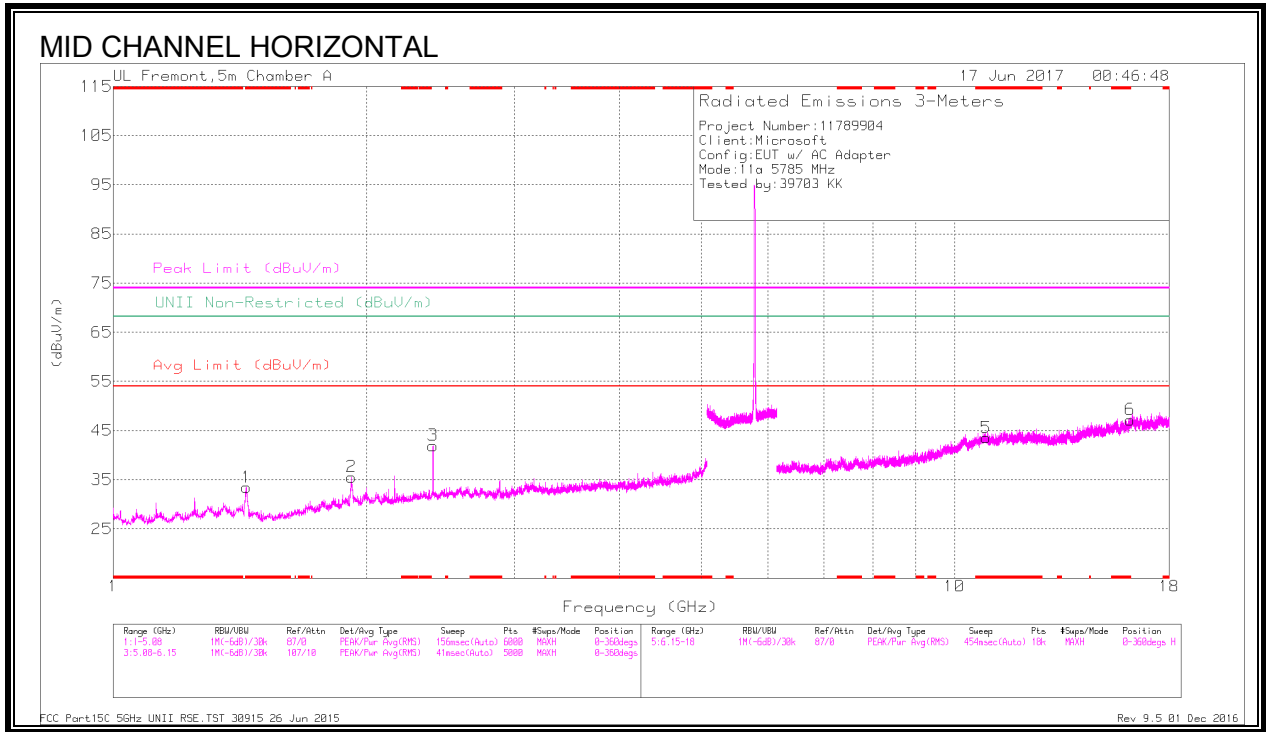


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filt/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.44 | 53.21 | PK-U | 28.8 | -33.6 | 48.41 | - | - | 74 | -25.59 | - | - | 216 | 202 | H |
| | * 1.44 | 33.82 | ADR | 28.8 | -33.6 | 29.02 | 54 | -24.98 | - | - | - | - | 216 | 202 | H |
| 5 | * 10.998 | 32.22 | PK-U | 37.8 | -20.2 | 49.82 | - | - | 74 | -24.18 | - | - | 171 | 124 | H |
| | * 10.997 | 21.36 | ADR | 37.8 | -20.2 | 38.96 | 54 | -15.04 | - | - | - | - | 171 | 124 | H |
| 3 | 2.4 | 48.12 | PK-U | 32.1 | -32.2 | 48.02 | - | - | - | - | 68.2 | -20.18 | 170 | 118 | H |
| 4 | 2.4 | 45.83 | PK-U | 32.1 | -32.3 | 45.63 | - | - | - | - | 68.2 | -22.57 | 171 | 124 | V |
| 6 | 16.394 | 32.78 | PK-U | 41.5 | -21.2 | 53.08 | - | - | - | - | 68.2 | -15.12 | 171 | 124 | V |
| 2 | 1.92 | 39.27 | PK-U | 31.3 | -33.3 | 37.27 | - | - | - | - | 68.2 | -30.93 | 145 | 113 | H |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

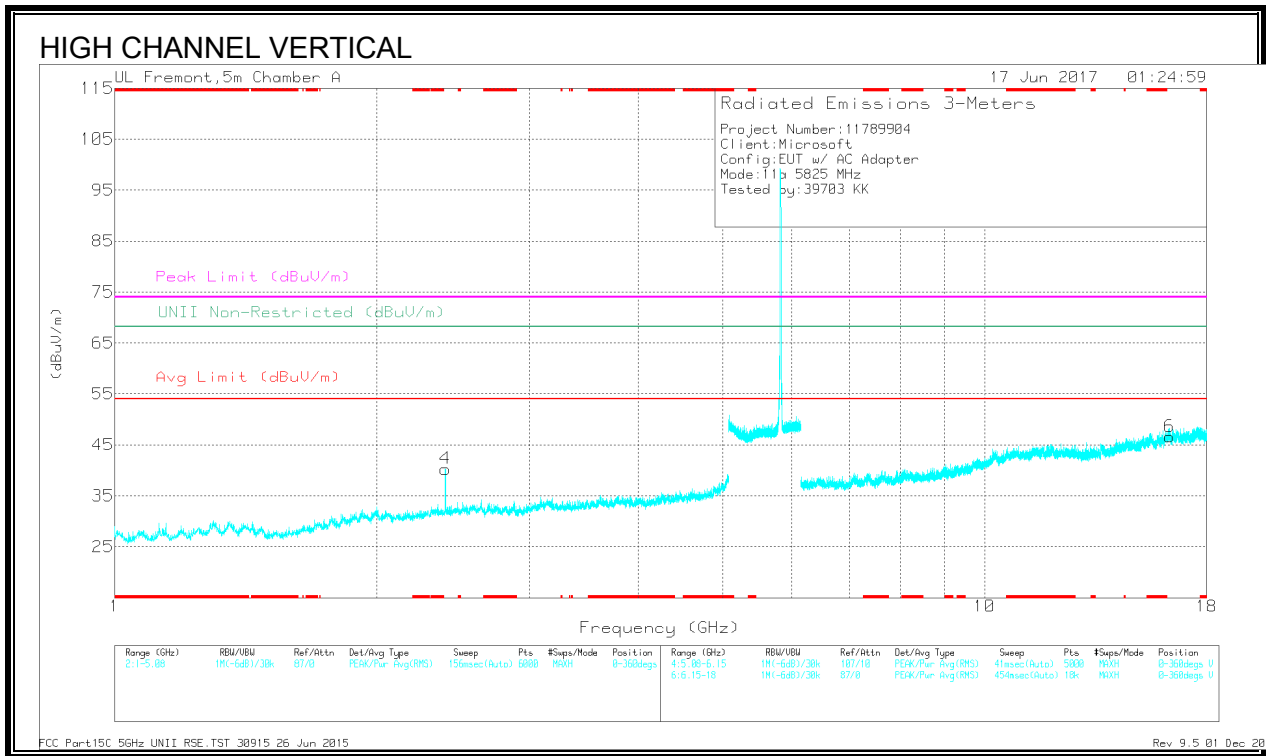
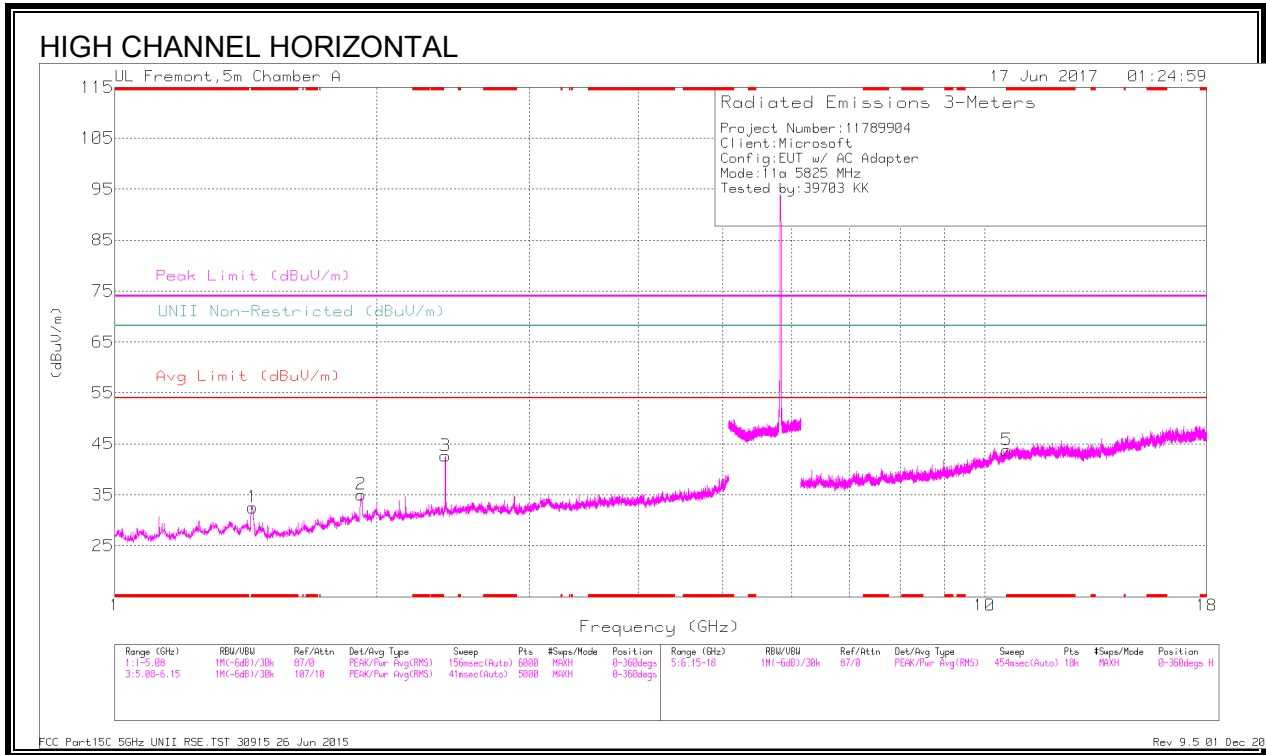


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.44 | 52.39 | PK-U | 28.8 | -33.6 | 47.59 | - | - | 74 | -26.41 | - | - | 215 | 190 | H |
| | * 1.44 | 33.09 | ADR | 28.8 | -33.6 | 28.29 | 54 | -25.71 | - | - | - | - | 215 | 190 | H |
| 5 | * 10.904 | 31.76 | PK-U | 37.9 | -19.4 | 50.26 | - | - | 74 | -23.74 | - | - | 170 | 101 | H |
| | * 10.903 | 21 | ADR | 37.9 | -19.4 | 39.5 | 54 | -14.5 | - | - | - | - | 170 | 101 | H |
| 6 | * 16.175 | 32.7 | PK-U | 41.1 | -19.8 | 54 | - | - | 74 | -20 | - | - | 170 | 101 | H |
| | * 16.175 | 21.59 | ADR | 41.1 | -19.8 | 42.89 | 54 | -11.11 | - | - | - | - | 170 | 101 | H |
| 2 | 1.921 | 52.34 | PK-U | 31.3 | -33.3 | 50.34 | - | - | - | - | 68.2 | -17.86 | 171 | 146 | H |
| 3 | 2.4 | 48.82 | PK-U | 32.1 | -32.2 | 48.72 | - | - | - | - | 68.2 | -19.48 | 170 | 118 | H |
| 4 | 2.4 | 45.63 | PK-U | 32.1 | -32.2 | 45.53 | - | - | - | - | 68.2 | -22.67 | 170 | 101 | V |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Filt/Pad (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 | * 1.44 | 52.98 | PK-U | 28.8 | -33.6 | 48.18 | - | - | 74 | -25.82 | - | - | 217 | 193 | H |
| | * 1.44 | 33.6 | ADR | 28.8 | -33.6 | 28.8 | 54 | -25.2 | - | - | - | - | 217 | 193 | H |
| 5 | * 10.61 | 32.31 | PK-U | 37.8 | -20.4 | 49.71 | - | - | 74 | -24.29 | - | - | 170 | 102 | H |
| | * 10.611 | 21.34 | ADR | 37.8 | -20.4 | 38.74 | 54 | -15.26 | - | - | - | - | 170 | 102 | H |
| 2 | 1.921 | 52.17 | PK-U | 31.3 | -33.3 | 50.17 | - | - | - | - | 68.2 | -18.03 | 164 | 173 | H |
| 3 | 2.4 | 47.88 | PK-U | 32.1 | -32.3 | 47.68 | - | - | - | - | 68.2 | -20.52 | 168 | 117 | H |
| 4 | 2.4 | 46.69 | PK-U | 32.1 | -32.3 | 46.49 | - | - | - | - | 68.2 | -21.71 | 170 | 102 | V |
| 6 | 16.315 | 33.65 | PK-U | 41.4 | -20.4 | 54.65 | - | - | - | - | 68.2 | -13.55 | 170 | 102 | V |

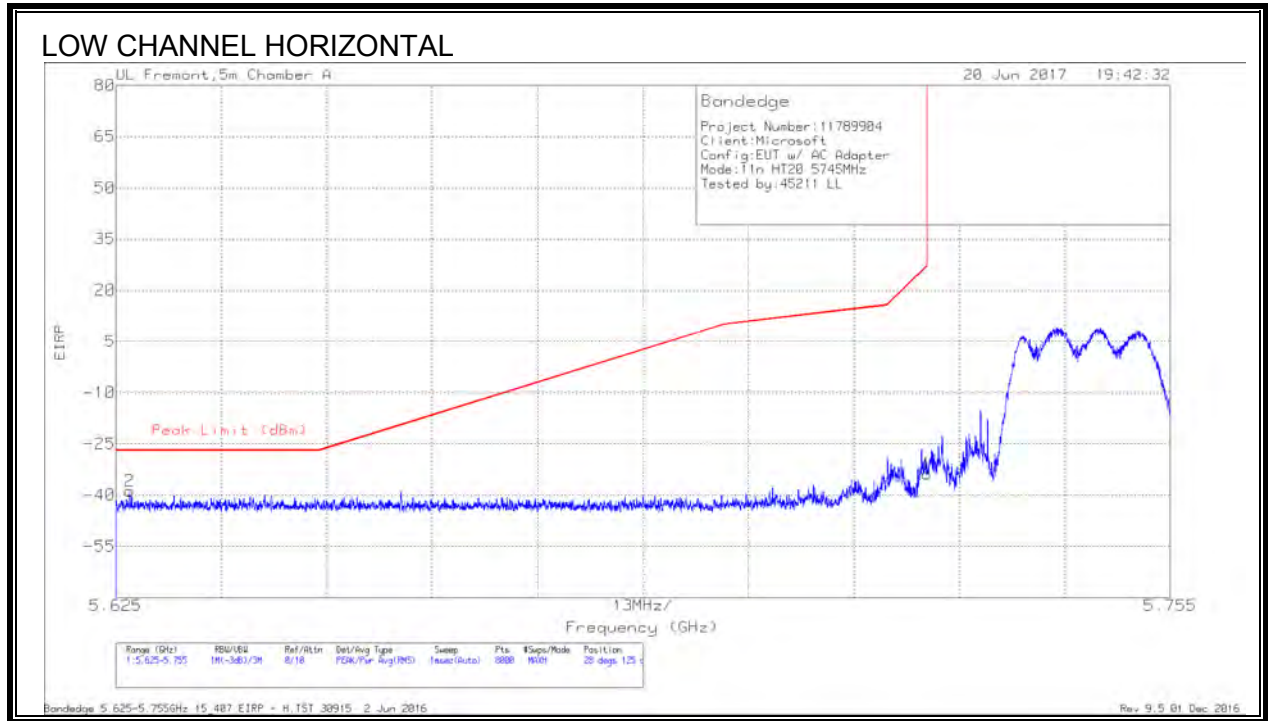
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

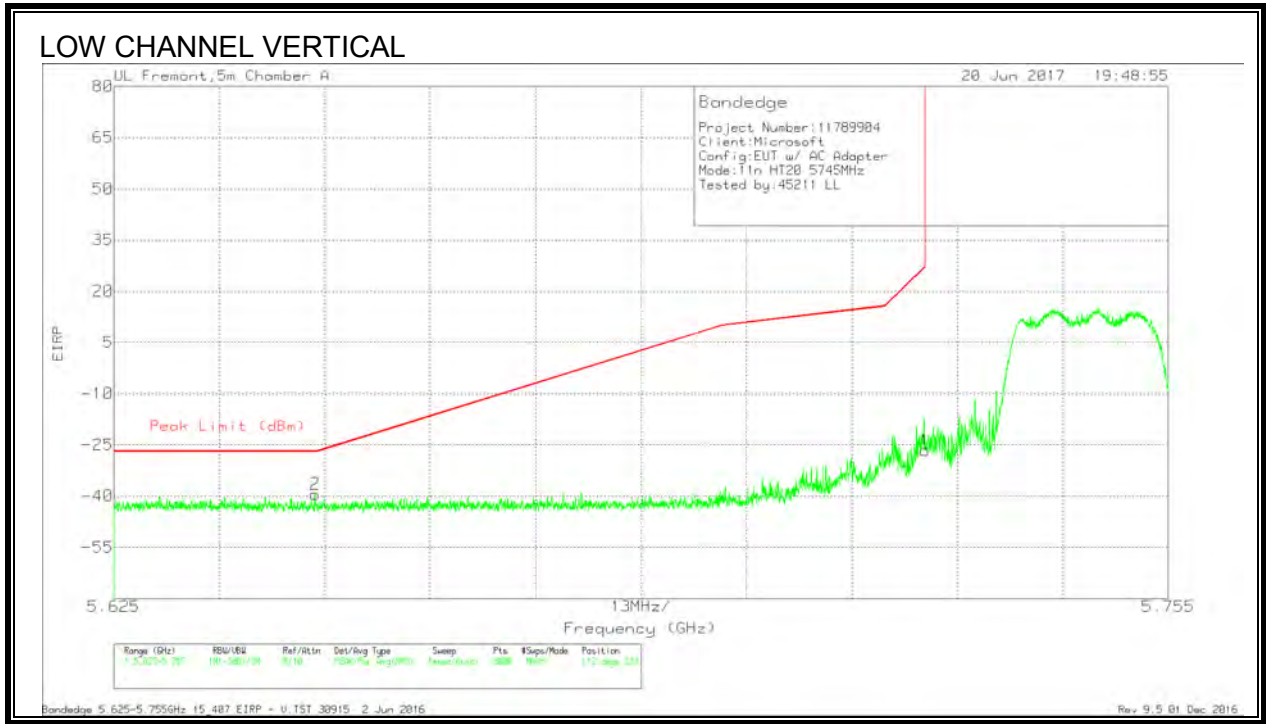
10.1.14. 11n HT20 2TX MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cb/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.627 | -66.4 | PK | 34.7 | -18.9 | 11.8 | -38.8 | -27 | -11.8 | 28 | 125 | H |
| 1 | 5.725 | -61.41 | PK | 34.8 | -19 | 11.8 | -33.81 | 27 | -60.81 | 28 | 125 | H |

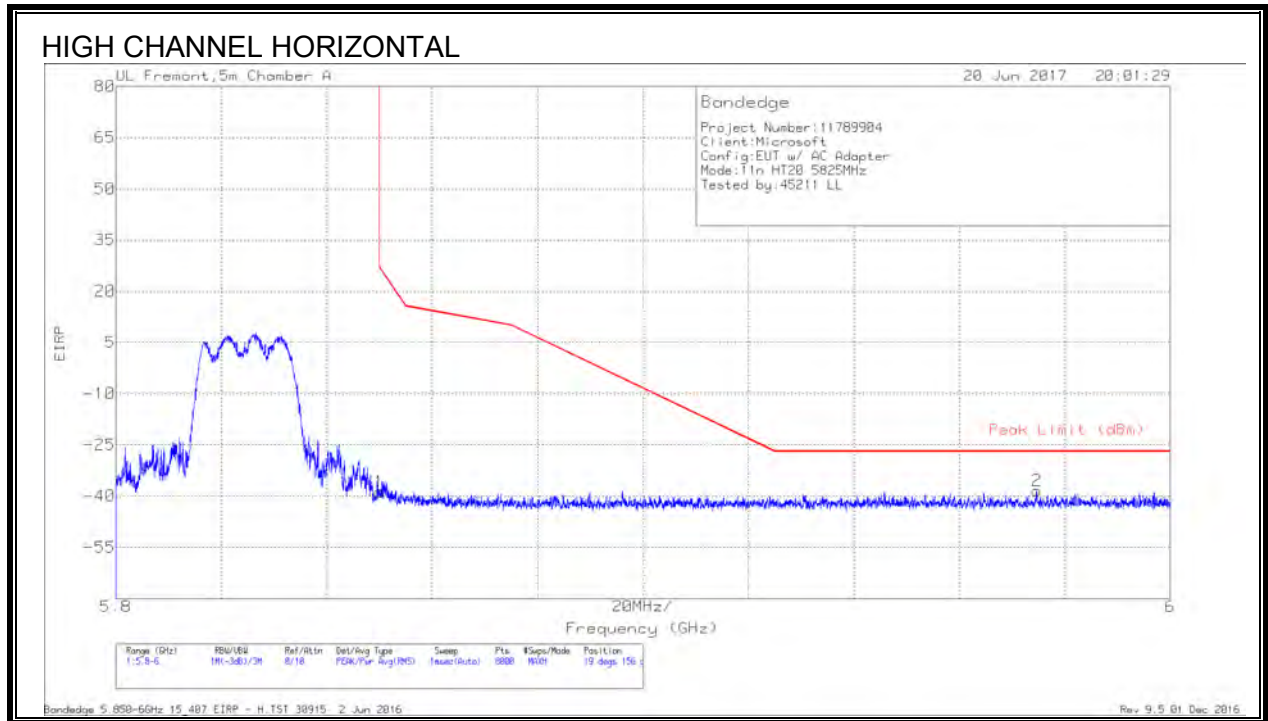
Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cb/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.65 | -66.92 | Pk | 34.7 | -19 | 11.8 | -39.42 | -27 | -12.42 | 112 | 233 | V |
| 1 | 5.725 | -54.18 | Pk | 34.8 | -19 | 11.8 | -26.58 | 27 | -53.58 | 112 | 233 | V |

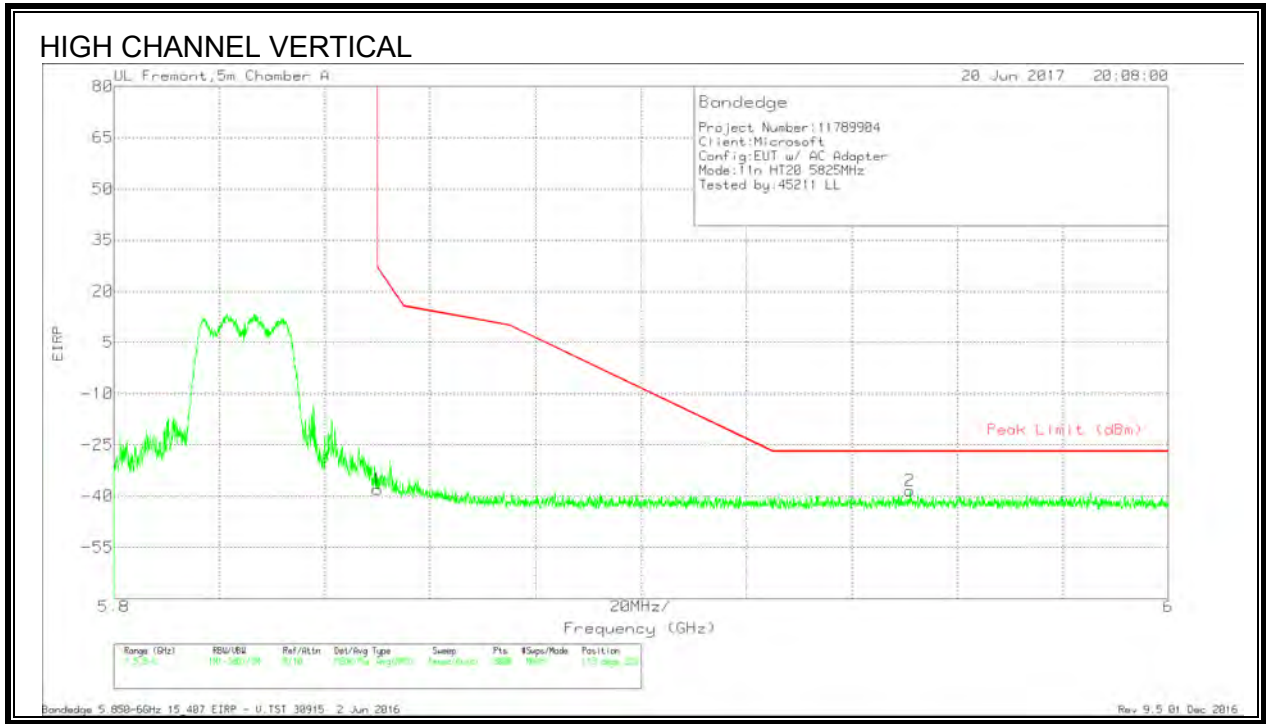
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -66.63 | Pk | 34.8 | -18.8 | 11.8 | -38.83 | 26.99 | -65.82 | 19 | 156 | H |
| 2 | 5.975 | -66.9 | Pk | 35.2 | -18.5 | 11.8 | -38.4 | -27 | -11.4 | 19 | 156 | H |

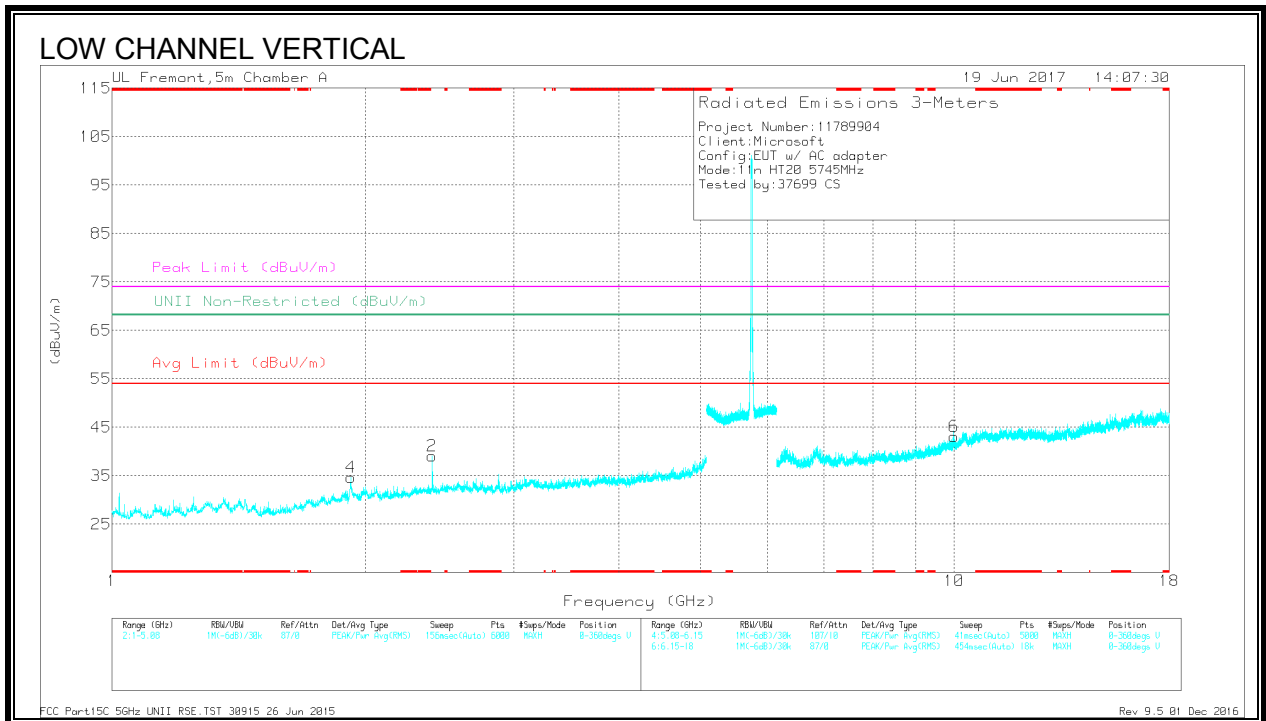
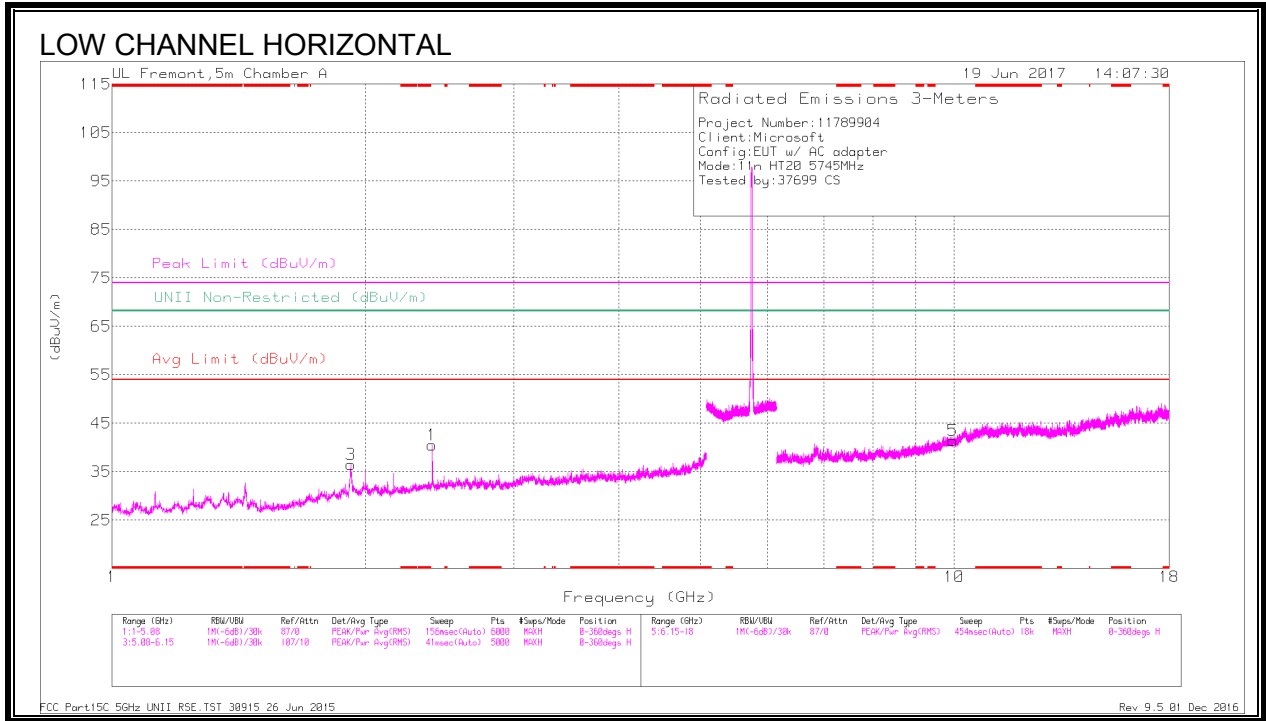
Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cb/Filtr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -65.86 | Pk | 34.8 | -18.8 | 11.8 | -38.06 | 26.99 | -65.05 | 113 | 226 | V |
| 2 | 5.951 | -66.76 | Pk | 35.1 | -18.5 | 11.8 | -38.36 | -27 | -11.36 | 113 | 226 | V |

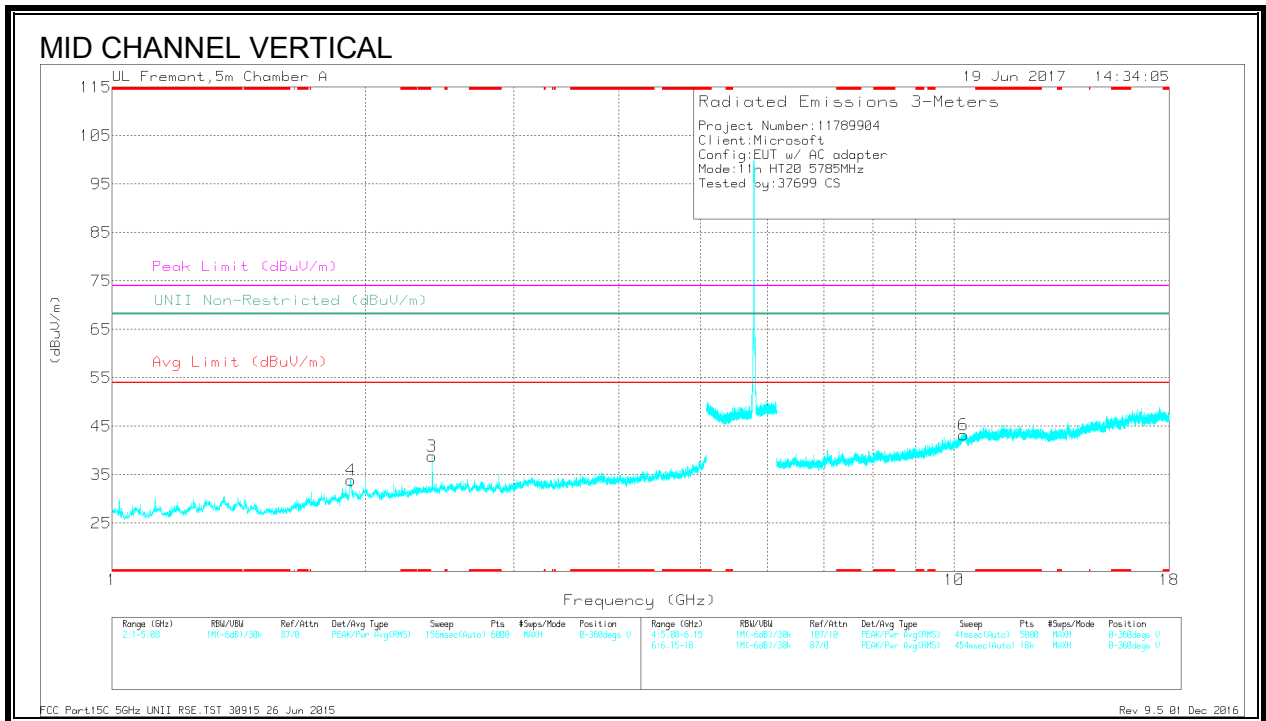
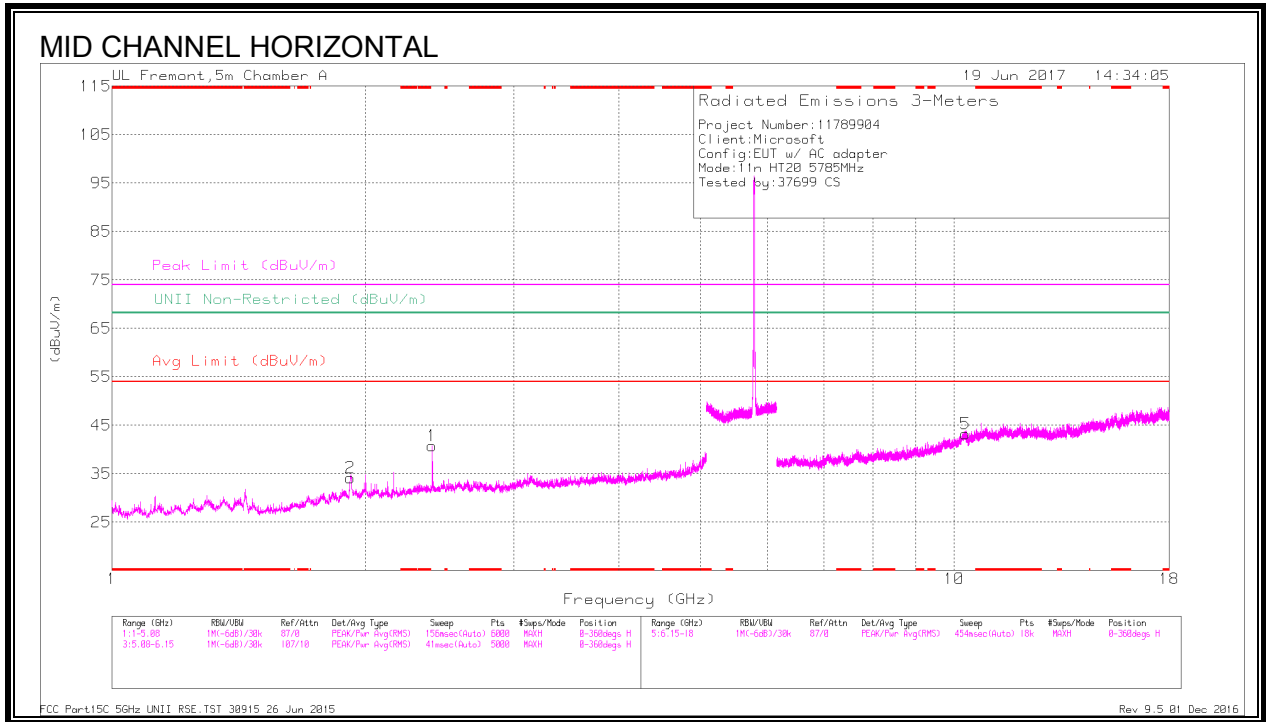
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



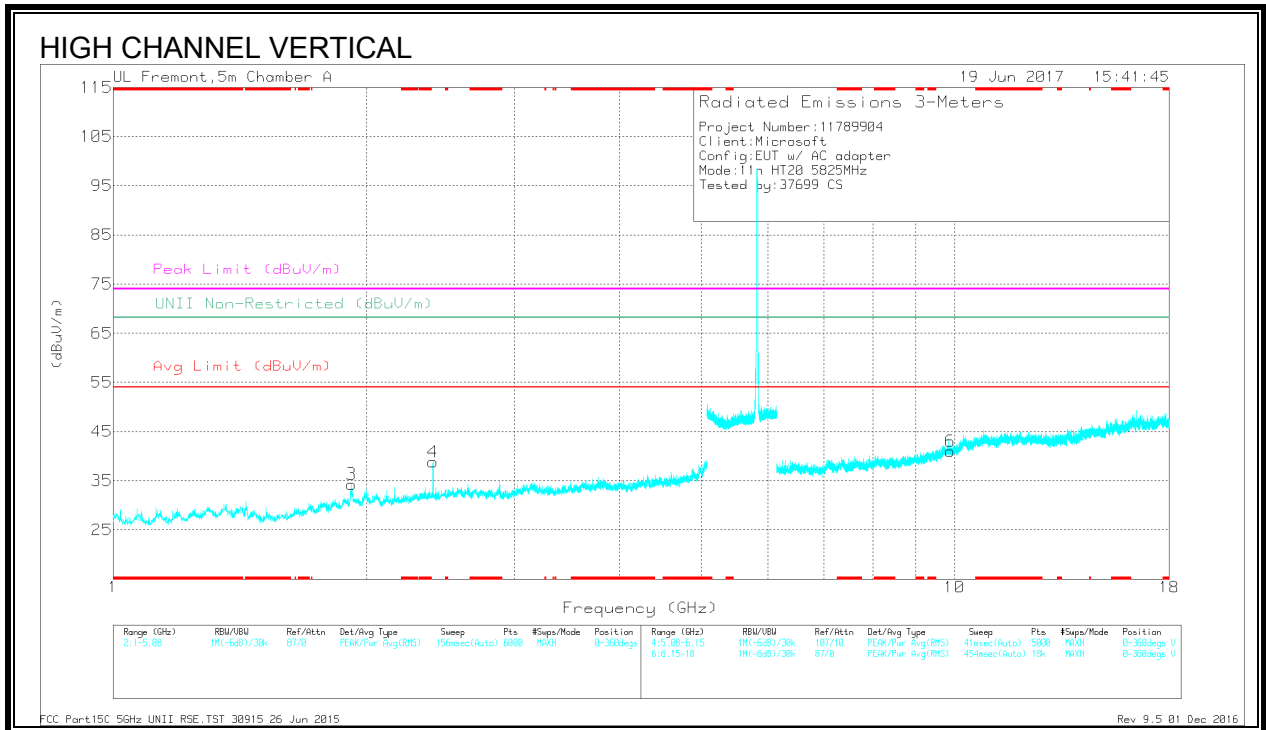
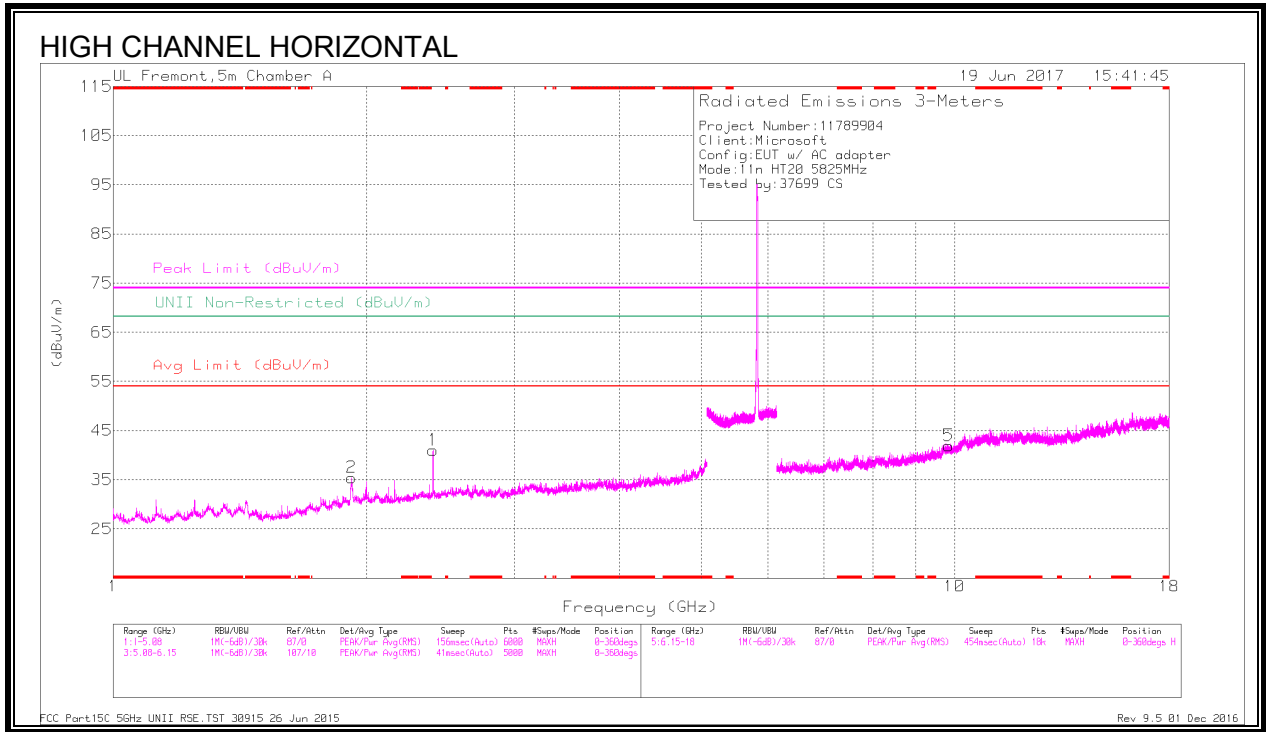
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 3 | 1.921 | 51 | PK-U | 31.3 | -33.3 | 49 | - | - | - | - | 68.2 | -19.2 | 353 | 281 | H |
| 4 | 1.921 | 48.79 | PK-U | 31.3 | -33.3 | 46.79 | - | - | - | - | 68.2 | -21.41 | 260 | 102 | V |
| 1 | 2.4 | 48.83 | PK-U | 32.1 | -32.2 | 48.73 | - | - | - | - | 68.2 | -19.47 | 135 | 219 | H |
| 2 | 2.4 | 45.09 | PK-U | 32.1 | -32.3 | 44.89 | - | - | - | - | 68.2 | -23.31 | 268 | 266 | V |
| 5 | 9.965 | 32 | PK-U | 36.9 | -21.3 | 47.6 | - | - | - | - | 68.2 | -20.6 | 220 | 110 | H |
| 6 | 9.994 | 32.51 | PK-U | 36.9 | -21.1 | 48.31 | - | - | - | - | 68.2 | -19.89 | 319 | 104 | V |

PK-U - U-NII: Maximum Peak



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (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 | 1.919 | 51.1 | PK-U | 31.3 | -33.3 | 49.1 | - | - | - | - | 68.2 | -19.1 | 357 | 102 | H |
| 4 | 1.919 | 49.73 | PK-U | 31.3 | -33.3 | 47.73 | - | - | - | - | 68.2 | -20.47 | 214 | 103 | V |
| 1 | 2.4 | 45.95 | PK-U | 32.1 | -32.3 | 45.75 | - | - | - | - | 68.2 | -22.45 | 305 | 116 | H |
| 3 | 2.4 | 43.63 | PK-U | 32.1 | -32.3 | 43.43 | - | - | - | - | 68.2 | -24.77 | 111 | 104 | V |
| 6 | 10.259 | 32.14 | PK-U | 37.2 | -19.7 | 49.64 | - | - | - | - | 68.2 | -18.56 | 128 | 256 | V |
| 5 | 10.304 | 32.36 | PK-U | 37.3 | -19.7 | 49.96 | - | - | - | - | 68.2 | -18.24 | 62 | 115 | H |

PK-U - U-NII: Maximum Peak

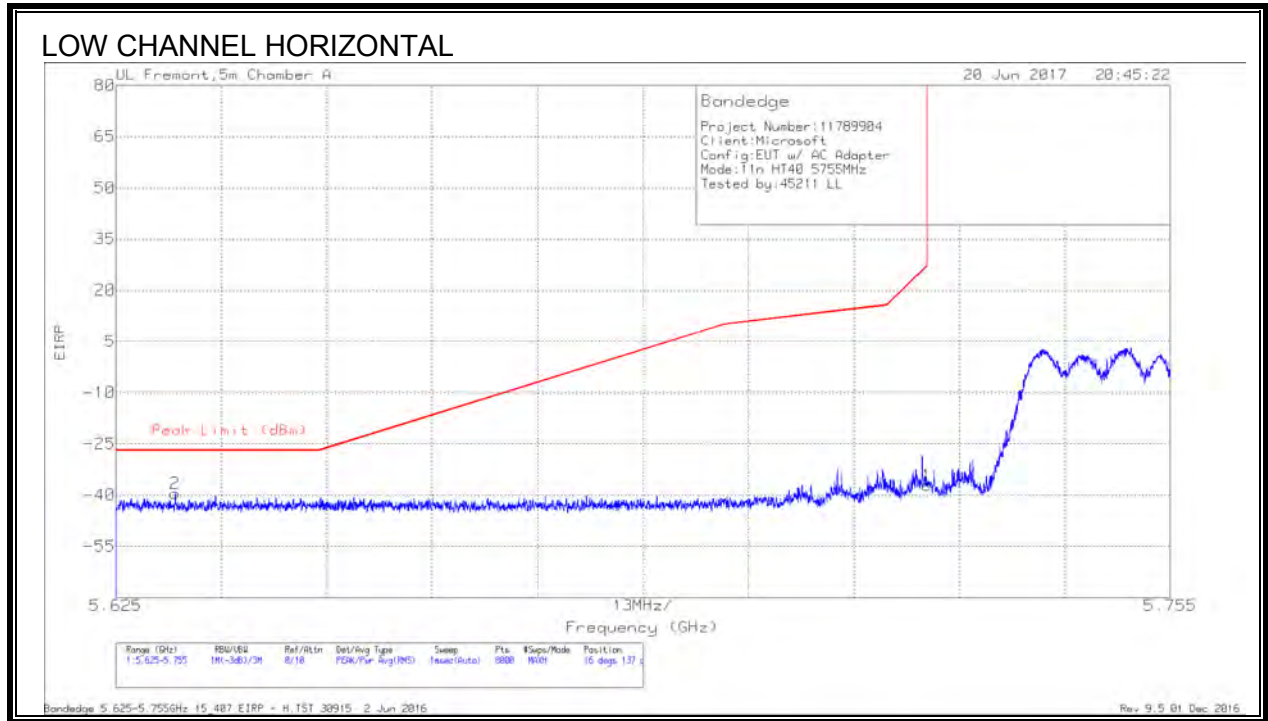


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 1711 (dBm) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2 | 1.919 | 51.38 | PK-U | 31.3 | -33.3 | 49.38 | - | - | - | - | 68.2 | -18.82 | 72 | 260 | V |
| 3 | 1.921 | 52.3 | PK-U | 31.3 | -33.3 | 50.3 | - | - | - | - | 68.2 | -17.9 | 350 | 231 | H |
| 1 | 2.4 | 47.88 | PK-U | 32.1 | -32.3 | 47.68 | - | - | - | - | 68.2 | -20.52 | 135 | 224 | H |
| 4 | 2.4 | 45.19 | PK-U | 32.1 | -32.3 | 44.99 | - | - | - | - | 68.2 | -23.21 | 271 | 228 | V |
| 5 | 9.844 | 33.1 | PK-U | 36.9 | -21.6 | 48.4 | - | - | - | - | 68.2 | -19.8 | 317 | 165 | H |
| 6 | 9.892 | 32.87 | PK-U | 36.9 | -21.6 | 48.17 | - | - | - | - | 68.2 | -20.03 | 249 | 114 | V |

PK-U - U-NII: Maximum Peak

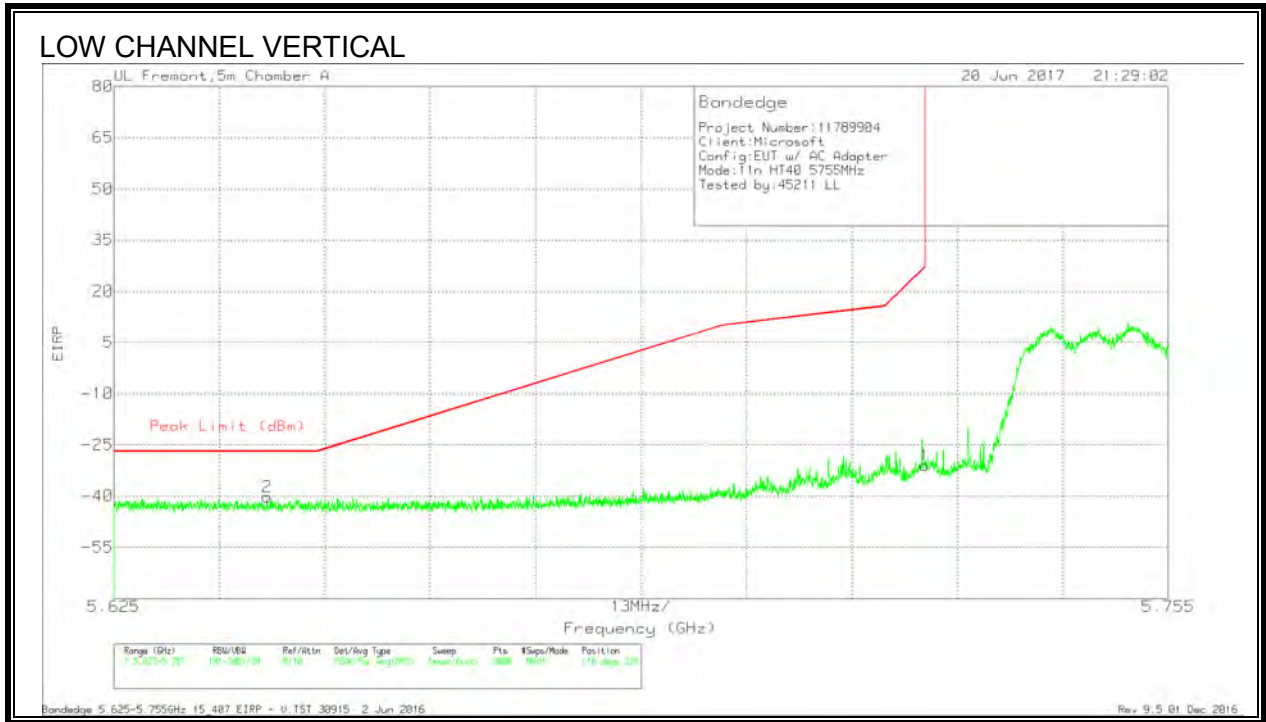
10.1.15. 11n HT40 2TX MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cb/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.632 | -67.08 | PK | 34.7 | -19 | 11.8 | -39.58 | -27 | -12.58 | 16 | 137 | H |
| 1 | 5.725 | -64.72 | PK | 34.8 | -19 | 11.8 | -37.12 | 27 | -64.12 | 16 | 137 | H |

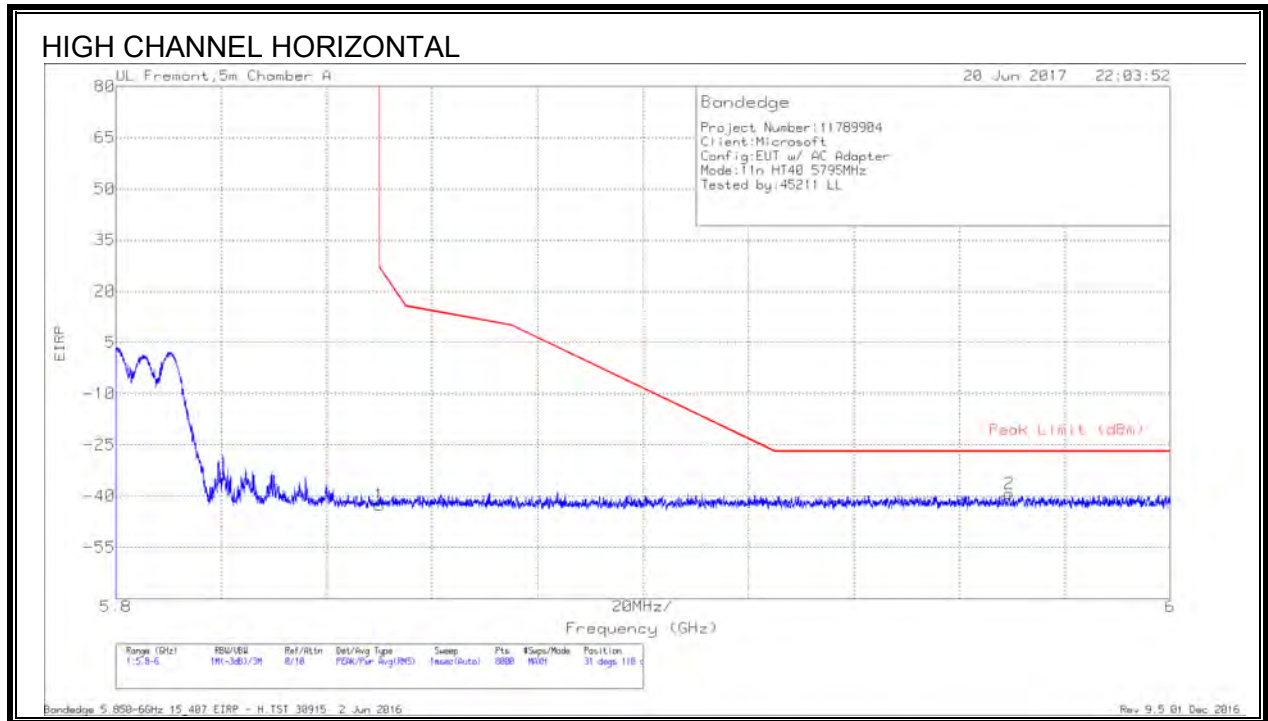
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.644 | -67.73 | Pk | 34.7 | -19 | 11.8 | -40.23 | -27 | -13.23 | 116 | 238 | V |
| 1 | 5.725 | -58.67 | Pk | 34.8 | -19 | 11.8 | -31.07 | 27 | -58.07 | 116 | 238 | V |

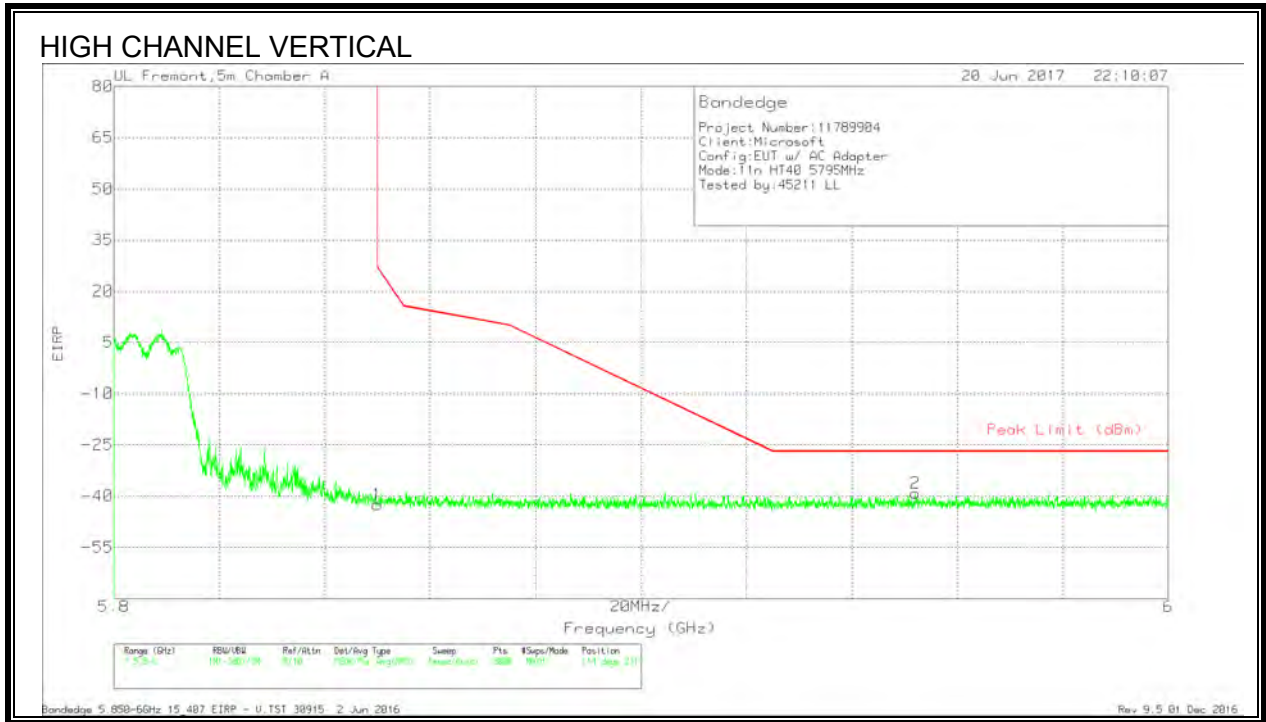
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -70.41 | Pk | 34.8 | -18.8 | 11.8 | -42.61 | 26.99 | -69.6 | 31 | 118 | H |
| 2 | 5.969 | -67.66 | Pk | 35.1 | -18.6 | 11.8 | -39.36 | -27 | -12.36 | 31 | 118 | H |

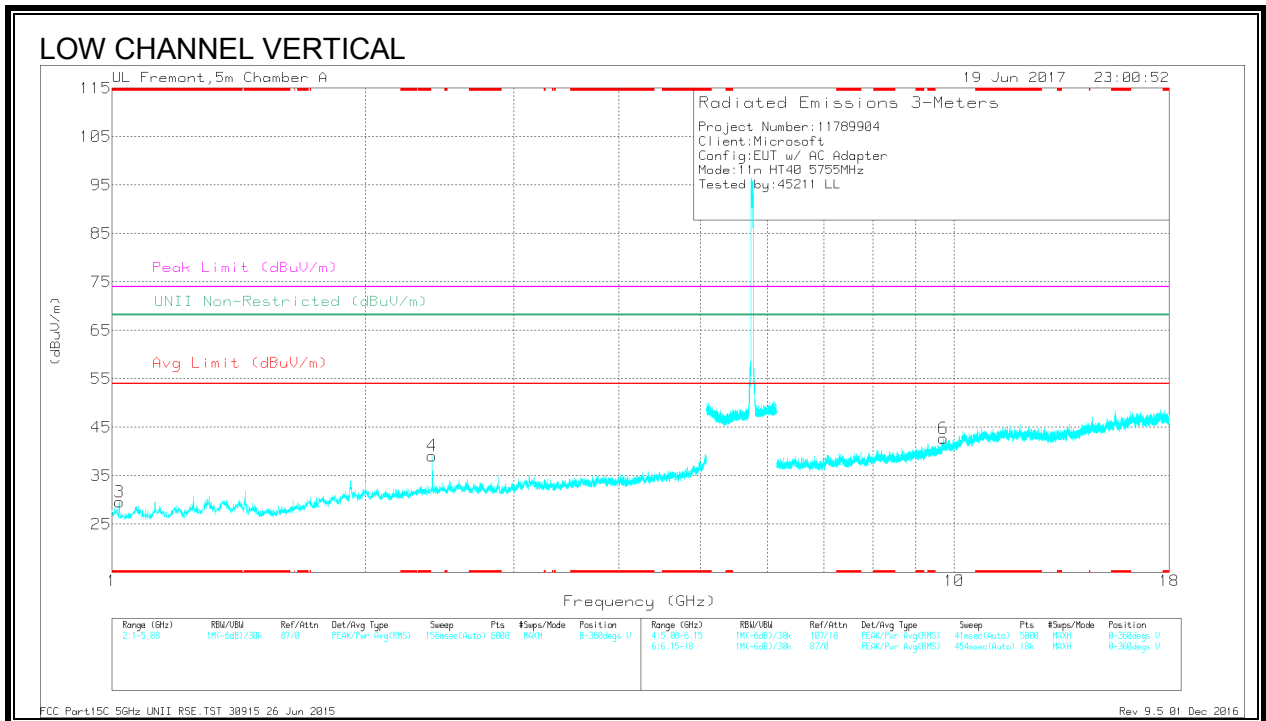
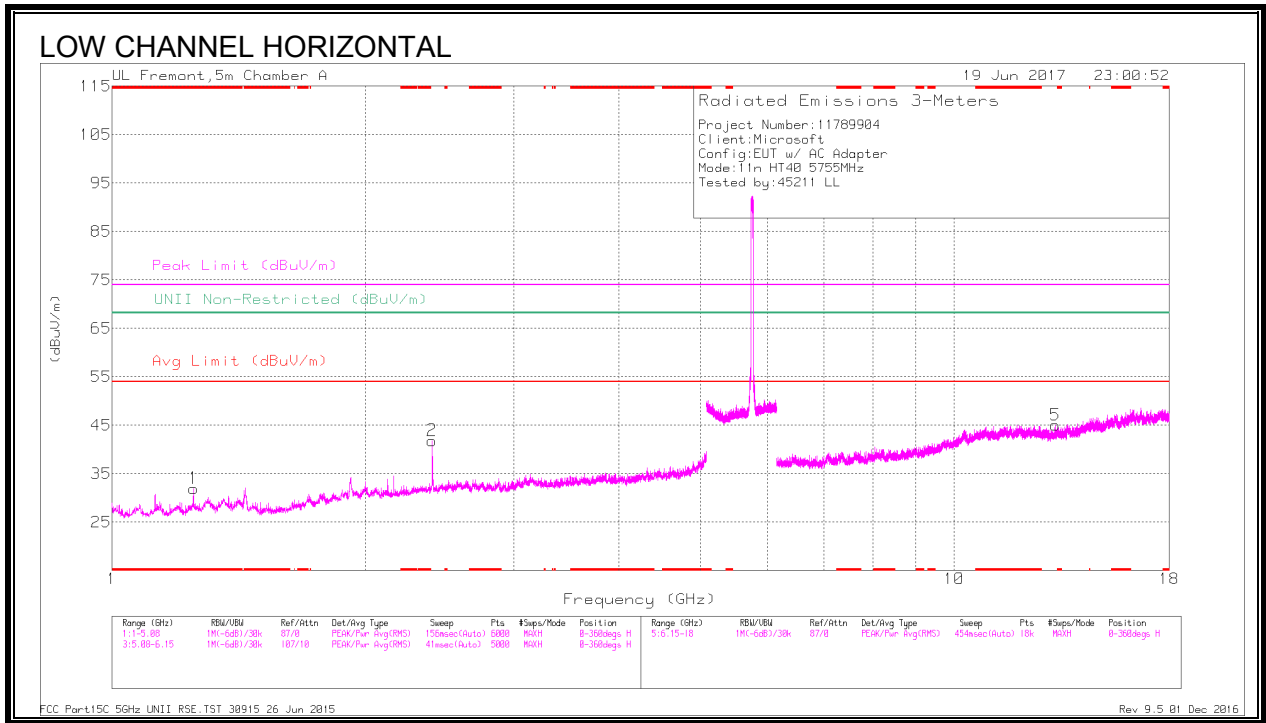
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cbl/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -70.34 | Pk | 34.8 | -18.8 | 11.8 | -42.54 | 26.99 | -69.53 | 114 | 231 | V |
| 2 | 5.952 | -67.55 | Pk | 35.1 | -18.5 | 11.8 | -39.15 | -27 | -12.15 | 114 | 231 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

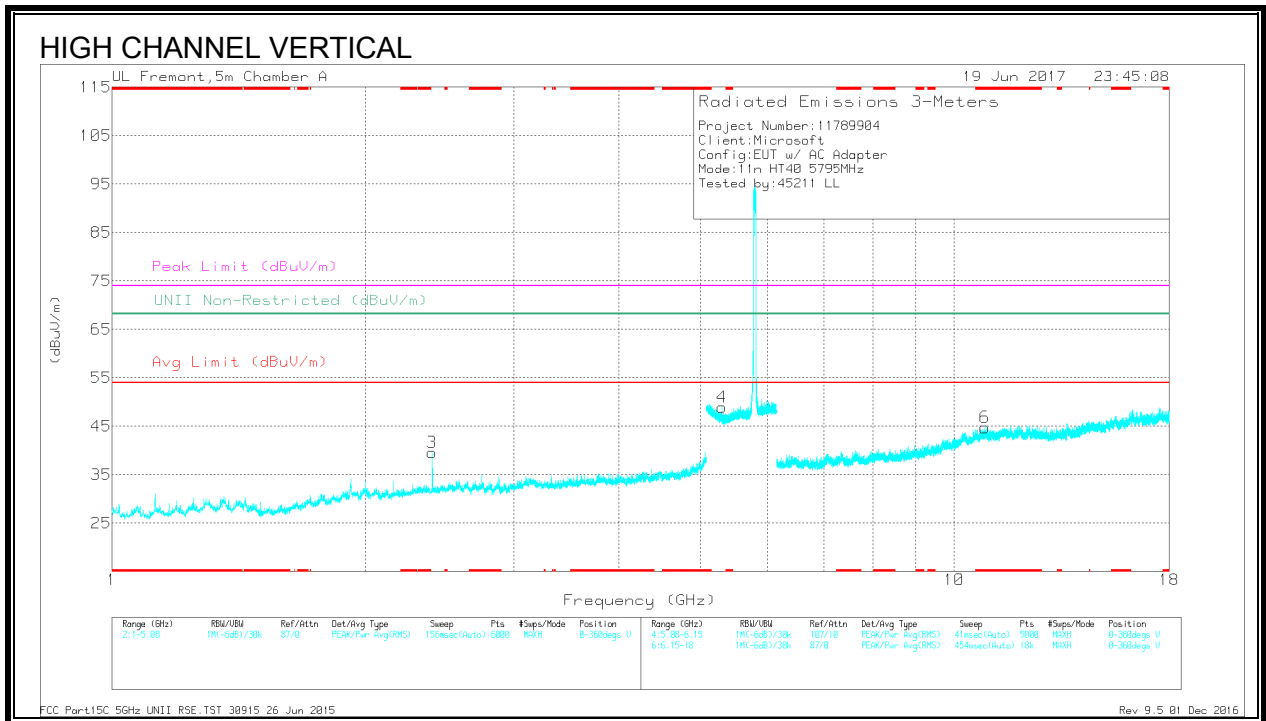
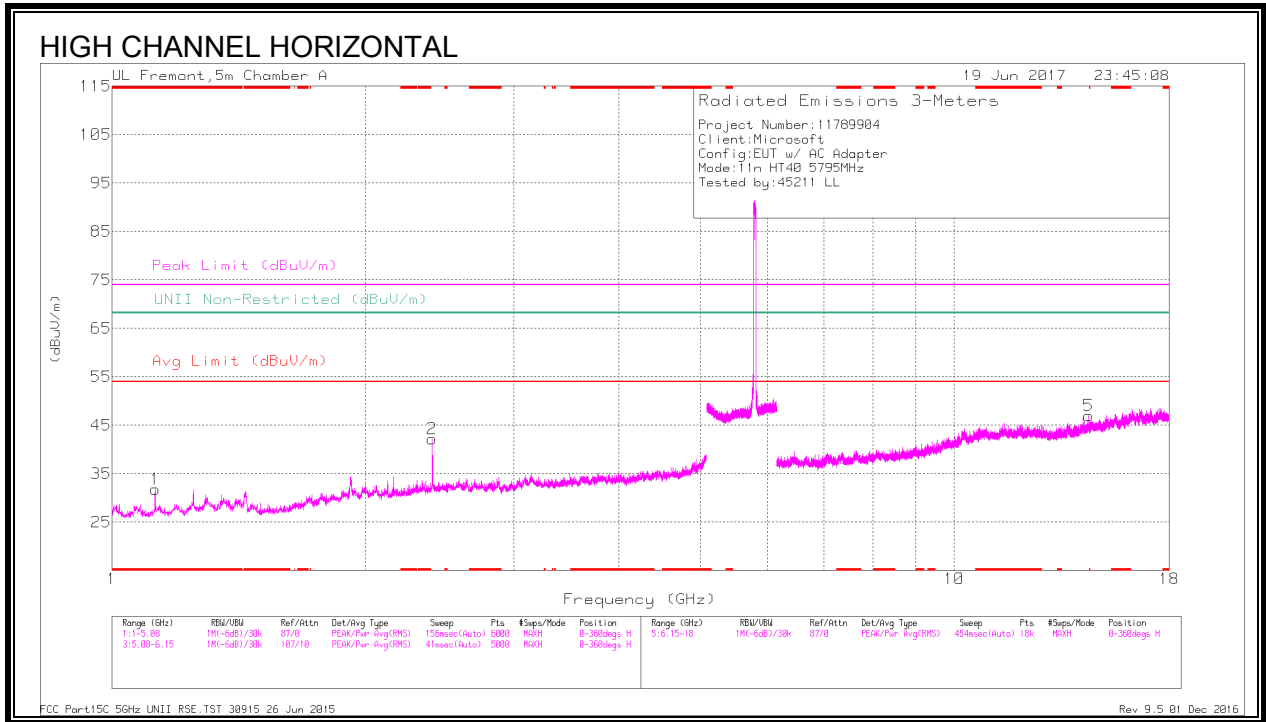


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1 | * 1.25 | 43.18 | PK-U | 29.1 | -34.3 | 37.98 | - | - | 74 | -36.02 | - | - | 263 | 144 | H |
| | * 1.25 | 35.16 | ADR | 29.1 | -34.3 | 29.96 | 54 | -24.04 | - | - | - | - | 263 | 144 | H |
| 3 | * 1.02 | 44.19 | PK-U | 27.8 | -34.2 | 37.79 | - | - | 74 | -36.21 | - | - | 137 | 191 | V |
| | * 1.02 | 34.23 | ADR | 27.8 | -34.2 | 27.83 | 54 | -26.17 | - | - | - | - | 137 | 191 | V |
| 2 | 2.4 | 47.8 | PK-U | 32.1 | -32.3 | 47.6 | - | - | - | - | 68.2 | -20.6 | 353 | 239 | H |
| 4 | 2.4 | 44.31 | PK-U | 32.1 | -32.2 | 44.21 | - | - | - | - | 68.2 | -23.99 | 276 | 196 | V |
| 6 | 9.714 | 33.21 | PK-U | 36.8 | -21.4 | 48.61 | - | - | - | - | 68.2 | -19.59 | 336 | 102 | V |
| 5 | 13.175 | 32.62 | PK-U | 38.9 | -21 | 50.52 | - | - | - | - | 68.2 | -17.68 | 273 | 102 | H |

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 1711 (dBm) | Amp/Cbl/Filtr/Pad (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 | * 1.125 | 45.01 | PK-U | 28 | -33.8 | 39.21 | - | - | 74 | -34.79 | - | - | 185 | 235 | H |
| | * 1.125 | 37.38 | ADR | 28 | -33.8 | 31.58 | 54 | -22.42 | - | - | - | - | 185 | 235 | H |
| 6 | * 10.88 | 31.89 | PK-U | 37.9 | -19.4 | 50.39 | - | - | 74 | -23.61 | - | - | 336 | 202 | V |
| | * 10.88 | 20.33 | ADR | 37.9 | -19.4 | 38.83 | 54 | -15.17 | - | - | - | - | 336 | 202 | V |
| 2 | 2.4 | 48.03 | PK-U | 32.1 | -32.3 | 47.83 | - | - | - | - | 68.2 | -20.37 | 351 | 240 | H |
| 3 | 2.4 | 44.68 | PK-U | 32.1 | -32.2 | 44.58 | - | - | - | - | 68.2 | -23.62 | 230 | 270 | V |
| 4 | 5.3 | 38.31 | PK-U | 34.3 | -18.8 | 53.81 | - | - | - | - | 68.2 | -14.39 | 345 | 206 | V |
| 5 | 14.452 | 32.53 | PK-U | 39.6 | -21.2 | 50.93 | - | - | - | - | 68.2 | -17.27 | 245 | 206 | H |

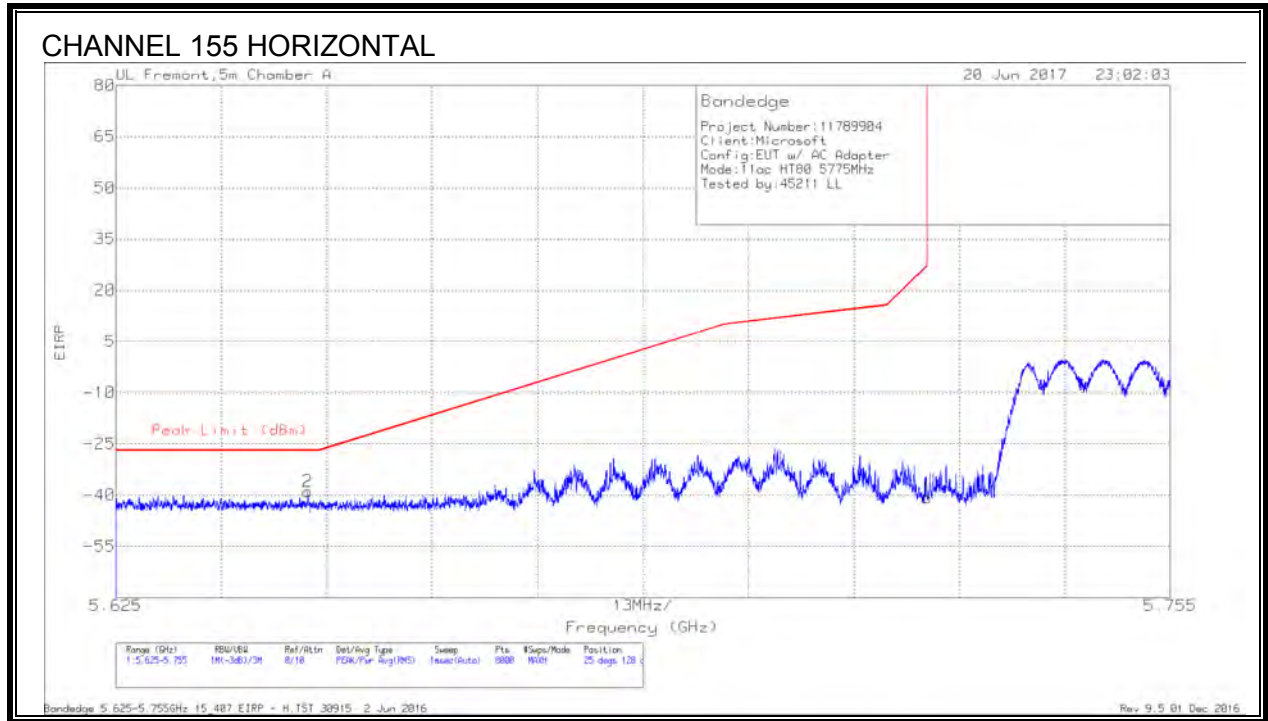
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

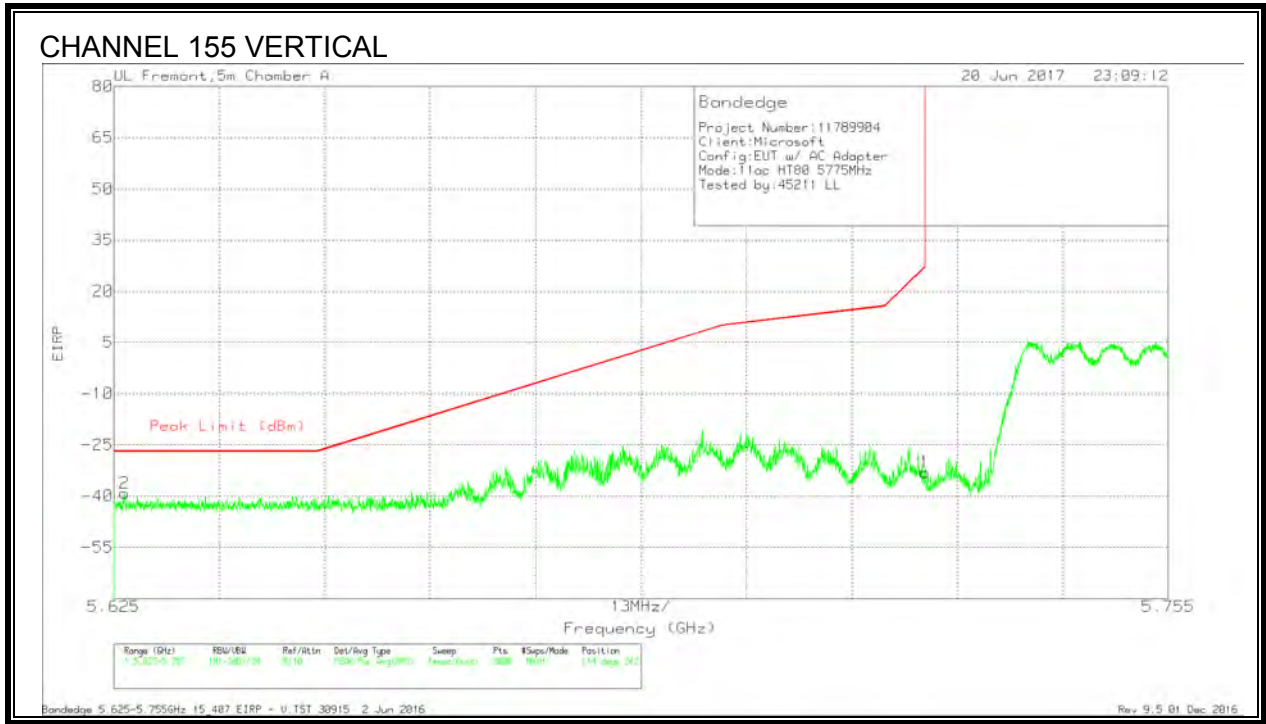
10.1.16.11ac HT80 2TX MODE IN THE 5.8GHZ BAND

RESTRICTED BANDEDGE (CHANNEL 155)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cb/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.649 | -66.37 | PK | 34.7 | -19 | 11.8 | -38.87 | -27 | -11.87 | 25 | 128 | H |
| 1 | 5.725 | -68.45 | PK | 34.8 | -19 | 11.8 | -40.85 | 27 | -67.85 | 25 | 128 | H |

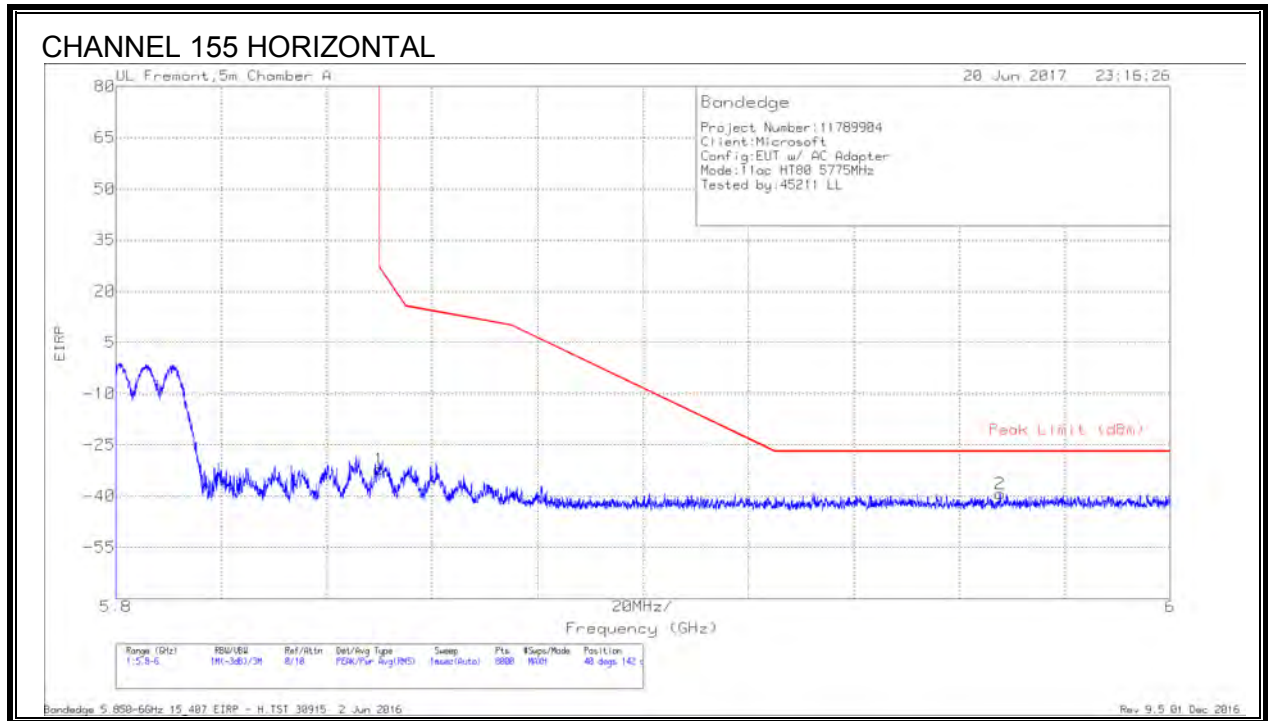
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cb/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2 | 5.626 | -66.76 | Pk | 34.7 | -18.9 | 11.8 | -39.16 | -27 | -12.16 | 114 | 242 | V |
| 1 | 5.725 | -60.7 | Pk | 34.8 | -19 | 11.8 | -33.1 | 27 | -60.1 | 114 | 242 | V |

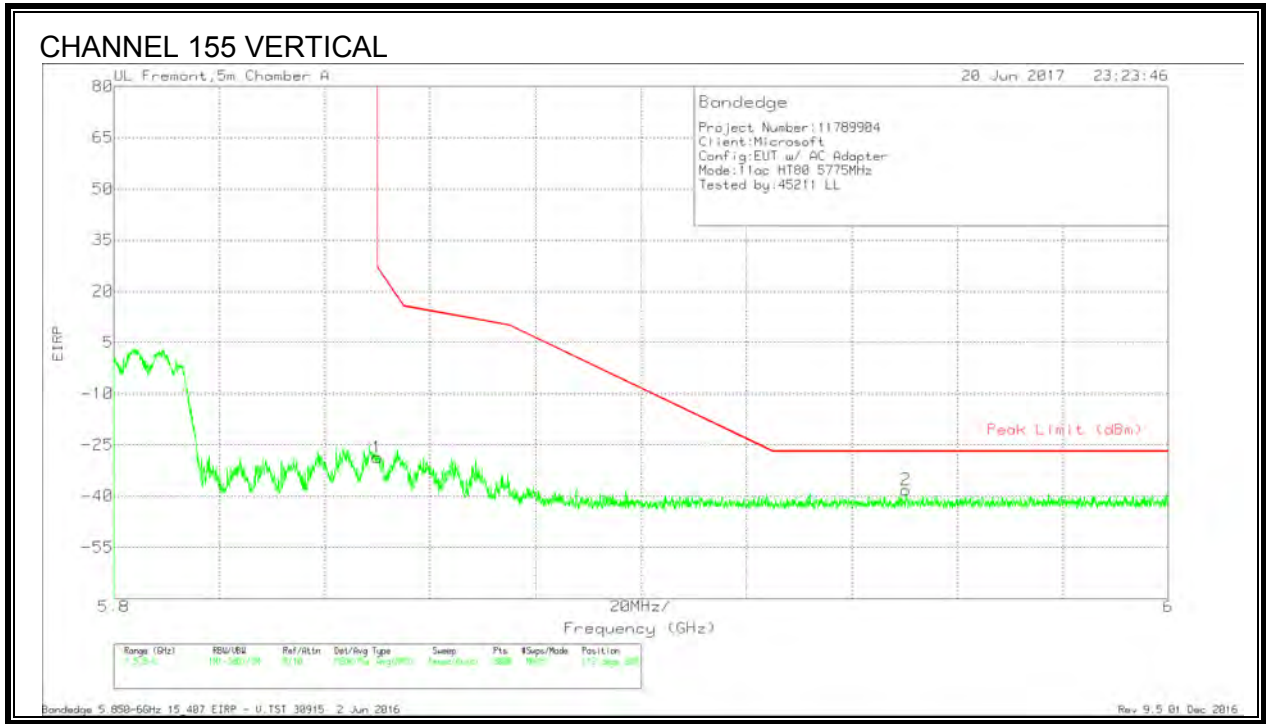
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

AUTHORIZED BANDEDGE (CHANNEL 155)



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cbl/Filtr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -59.94 | Pk | 34.8 | -18.8 | 11.8 | -32.14 | 26.99 | -59.13 | 40 | 142 | H |
| 2 | 5.968 | -67.59 | Pk | 35.1 | -18.6 | 11.8 | -39.29 | -27 | -12.29 | 40 | 142 | H |

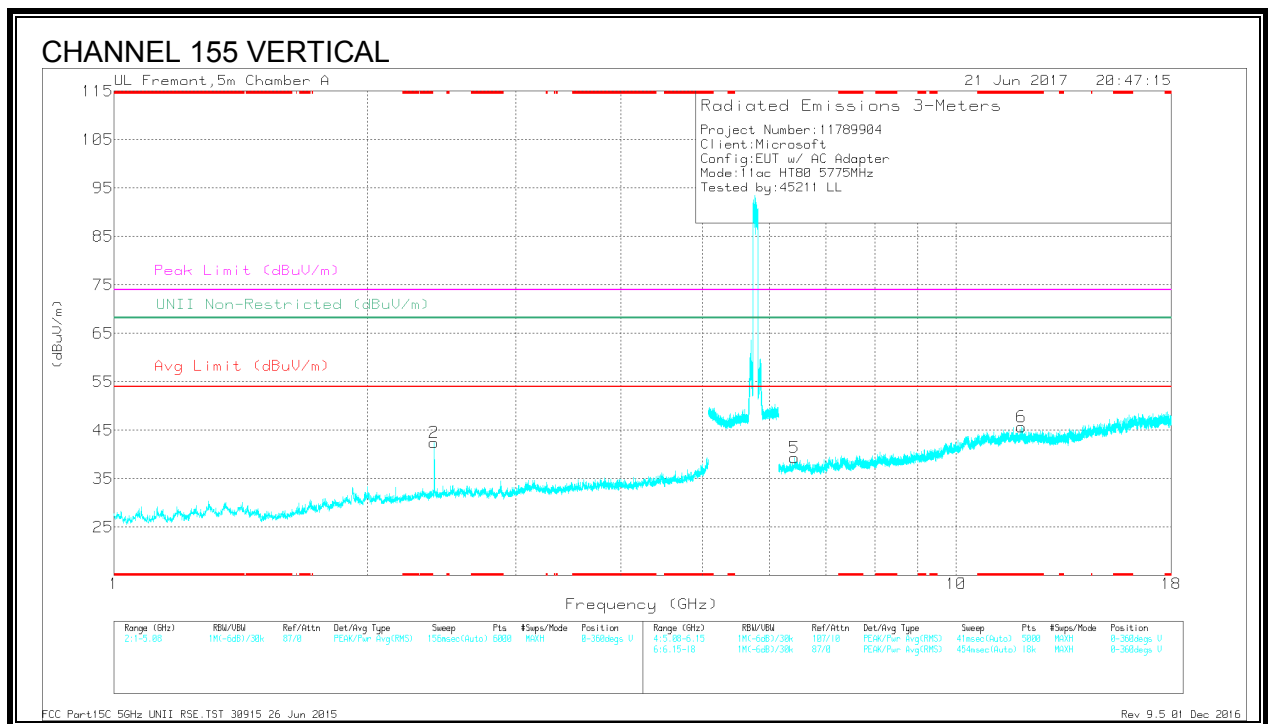
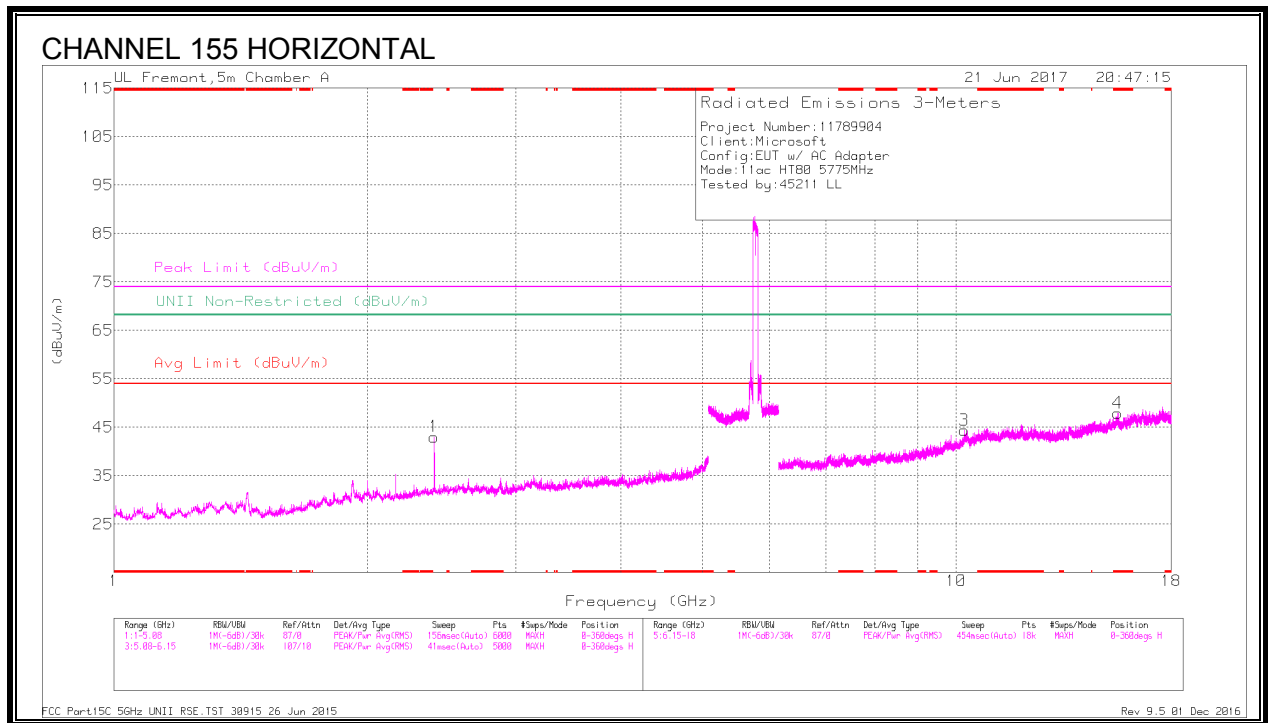
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T711 (dB/m) | Amp/Cb/Fitr/P ad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1 | 5.85 | -56.46 | Pk | 34.8 | -18.8 | 11.8 | -28.66 | 26.99 | -55.65 | 112 | 200 | V |
| 2 | 5.95 | -66.53 | Pk | 35.1 | -18.5 | 11.8 | -38.13 | -27 | -11.13 | 112 | 200 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dBm) | Amp/Cbl/Fitr/Pad (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 |
|--------|-----------------|----------------------|------|---------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 4 | * 15.558 | 32.68 | PK-U | 40.3 | -19.3 | 53.68 | - | - | 74 | -20.32 | - | - | 133 | 201 | H |
| | * 15.558 | 20.77 | ADR | 40.3 | -19.3 | 41.77 | 54 | -12.23 | - | - | - | - | 133 | 201 | H |
| 6 | * 11.959 | 32.14 | PK-U | 38.6 | -19.5 | 51.24 | - | - | 74 | -22.76 | - | - | 296 | 200 | V |
| | * 11.957 | 20.38 | ADR | 38.6 | -19.5 | 39.48 | 54 | -14.52 | - | - | - | - | 296 | 200 | V |
| 1 | 2.4 | 50.62 | PK-U | 32.1 | -32.3 | 50.42 | - | - | - | - | 68.2 | -17.78 | 165 | 177 | H |
| 2 | 2.4 | 48.06 | PK-U | 32.1 | -32.3 | 47.86 | - | - | - | - | 68.2 | -20.34 | 162 | 102 | V |
| 5 | 6.427 | 36.02 | PK-U | 35.5 | -25.2 | 46.32 | - | - | - | - | 68.2 | -21.88 | 232 | 147 | V |
| 3 | 10.223 | 32.81 | PK-U | 37.1 | -20 | 49.91 | - | - | - | - | 68.2 | -18.29 | 6 | 204 | H |

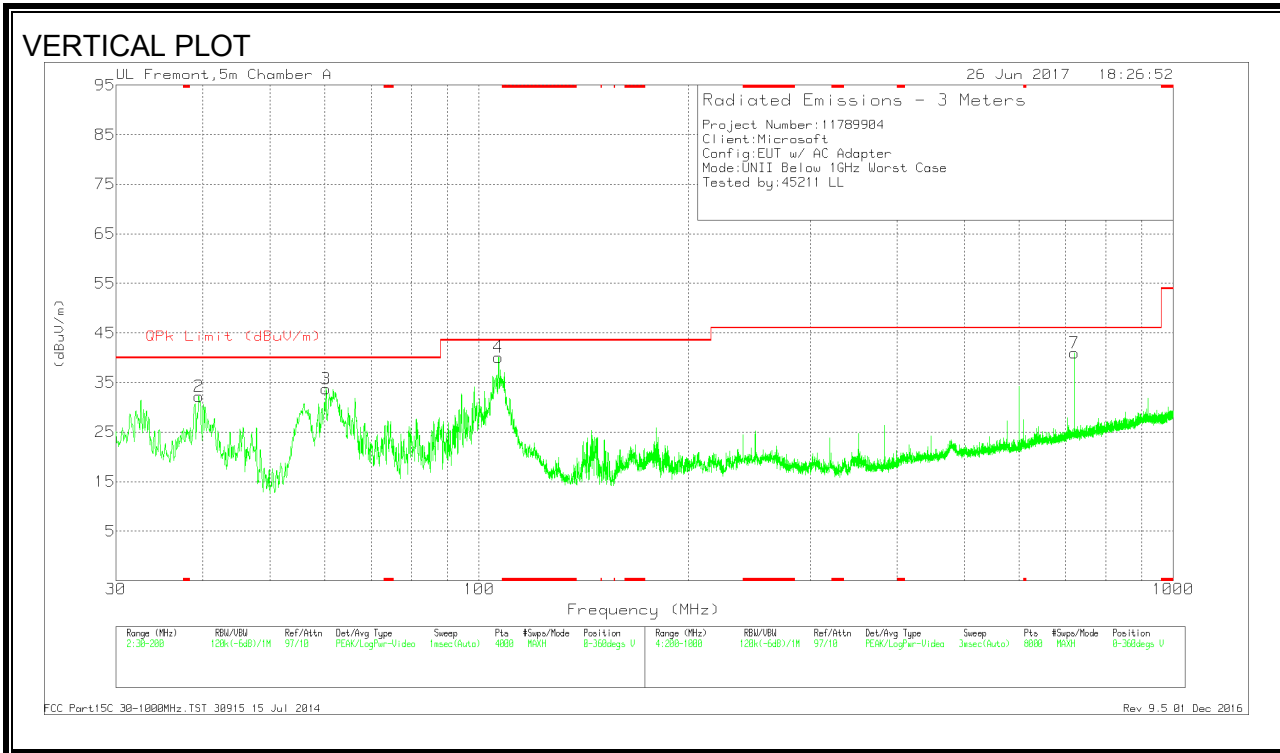
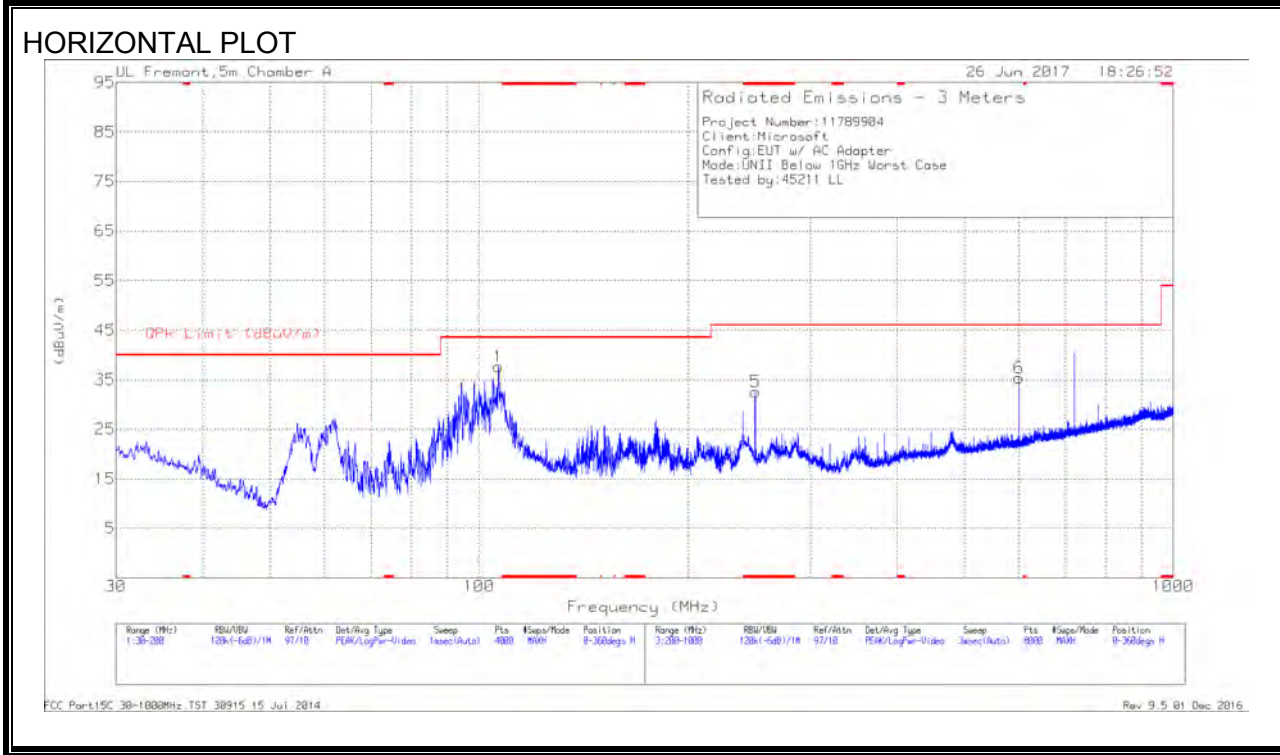
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.2. WORST-CASE BELOW 1 GHz

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



DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AFT130 (dB/m) | Amp/Cbl (dB/m) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|----------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 106.7215 | 52.7 | Pk | 15.9 | -30.5 | 38.1 | 43.52 | -5.42 | 162 | 288 | H |
| 4 | 106.7589 | 50.98 | Qp | 16 | -30.5 | 36.48 | 43.52 | -7.04 | 45 | 103 | V |
| 7 | 720.0244 | 44.41 | Qp | 24.5 | -28.2 | 40.71 | 46.02 | -5.31 | 122 | 102 | V |
| 6 | 600.052 | 41.52 | Pk | 22.5 | -28.6 | 35.42 | 46.02 | -10.6 | 0-360 | 101 | H |
| 5 | * 250.0065 | 46.7 | Pk | 15.5 | -29.6 | 32.6 | 46.02 | -13.42 | 0-360 | 101 | H |
| 2 | 39.48 | 44.93 | Pk | 18.4 | -31.1 | 32.23 | 40 | -7.77 | 0-360 | 100 | V |
| 3 | 60.1828 | 52.88 | Pk | 11.7 | -30.9 | 33.68 | 40 | -6.32 | 0-360 | 100 | V |

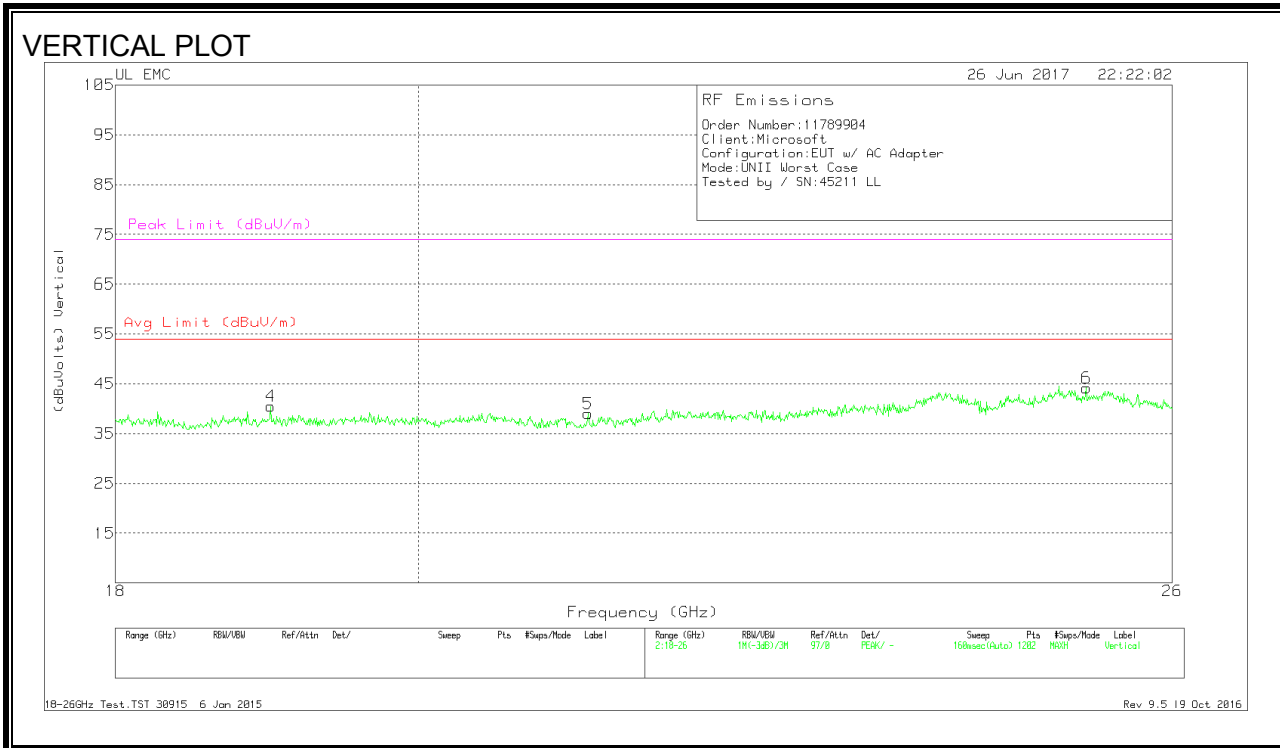
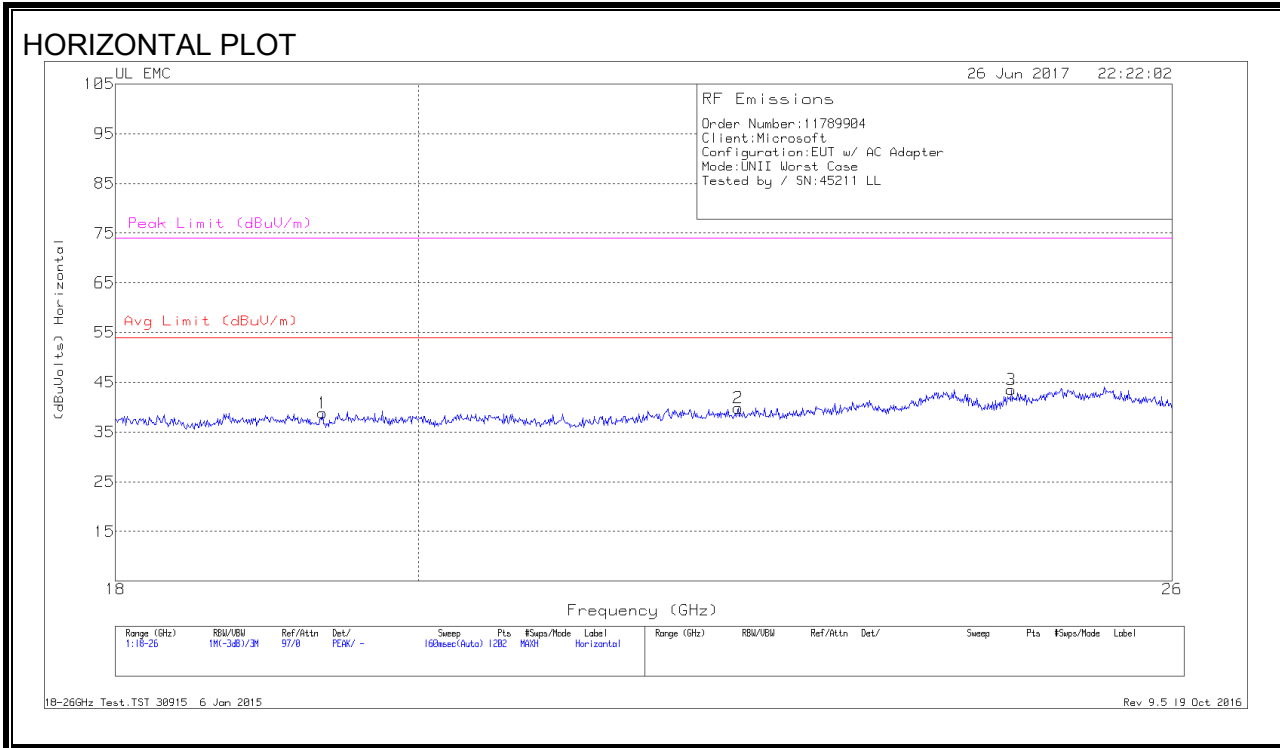
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

10.3. WORST-CASE 18 to 26 GHz

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



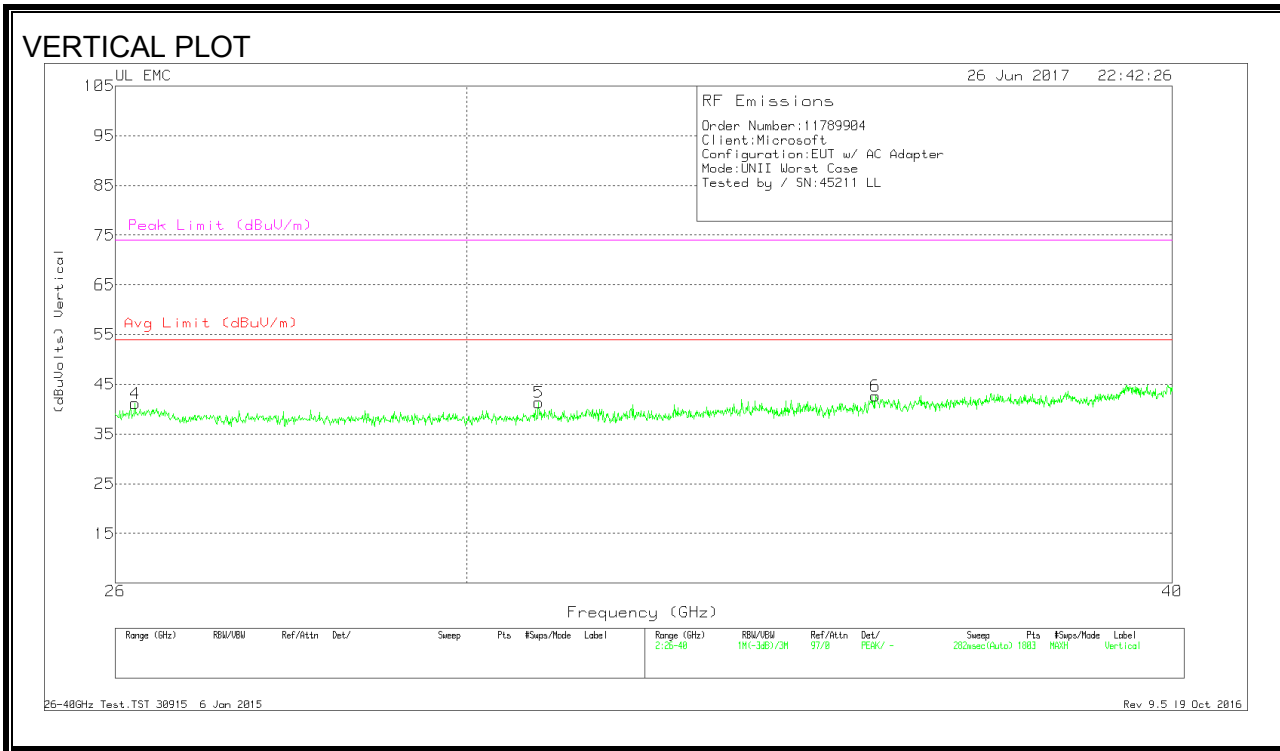
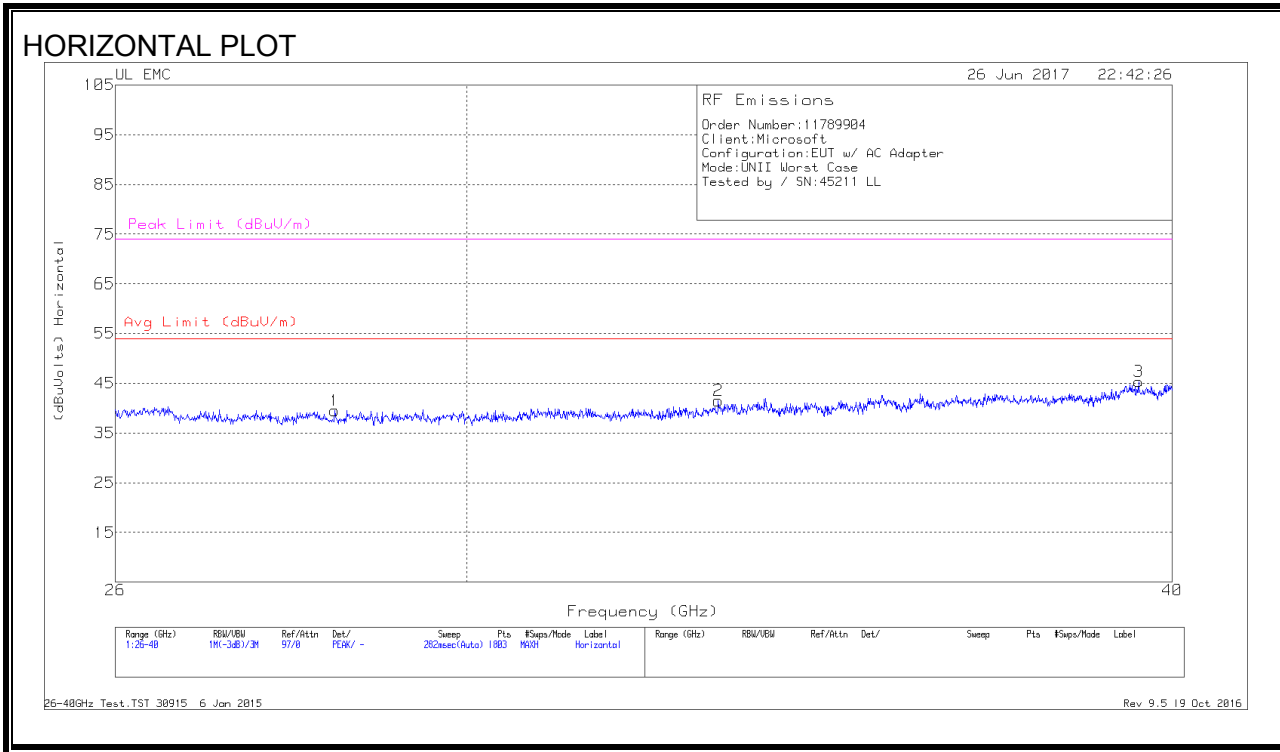
DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | T449 AF (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------|------------------------------|--------------------|-------------|---------------------|----------------|
| 1 | 19.346 | 40.43 | Pk | 32.6 | -24.7 | -9.5 | 38.83 | 54 | -15.17 | 74 | -35.17 |
| 2 | 22.356 | 40.53 | Pk | 33.5 | -24.7 | -9.5 | 39.83 | 54 | -14.17 | 74 | -34.17 |
| 3 | 24.581 | 43 | Pk | 34.1 | -24.1 | -9.5 | 43.5 | 54 | -10.5 | 74 | -30.5 |
| 4 | 18.999 | 42.3 | Pk | 32.5 | -24.8 | -9.5 | 40.5 | 54 | -13.5 | 74 | -33.5 |
| 5 | 21.217 | 40.3 | Pk | 33 | -24.8 | -9.5 | 39 | 54 | -15 | 74 | -35 |
| 6 | 25.234 | 44.17 | Pk | 34.3 | -24.8 | -9.5 | 44.17 | 54 | -9.83 | 74 | -29.83 |

Pk - Peak detector

10.4. WORST-CASE 26 to 40 GHz

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

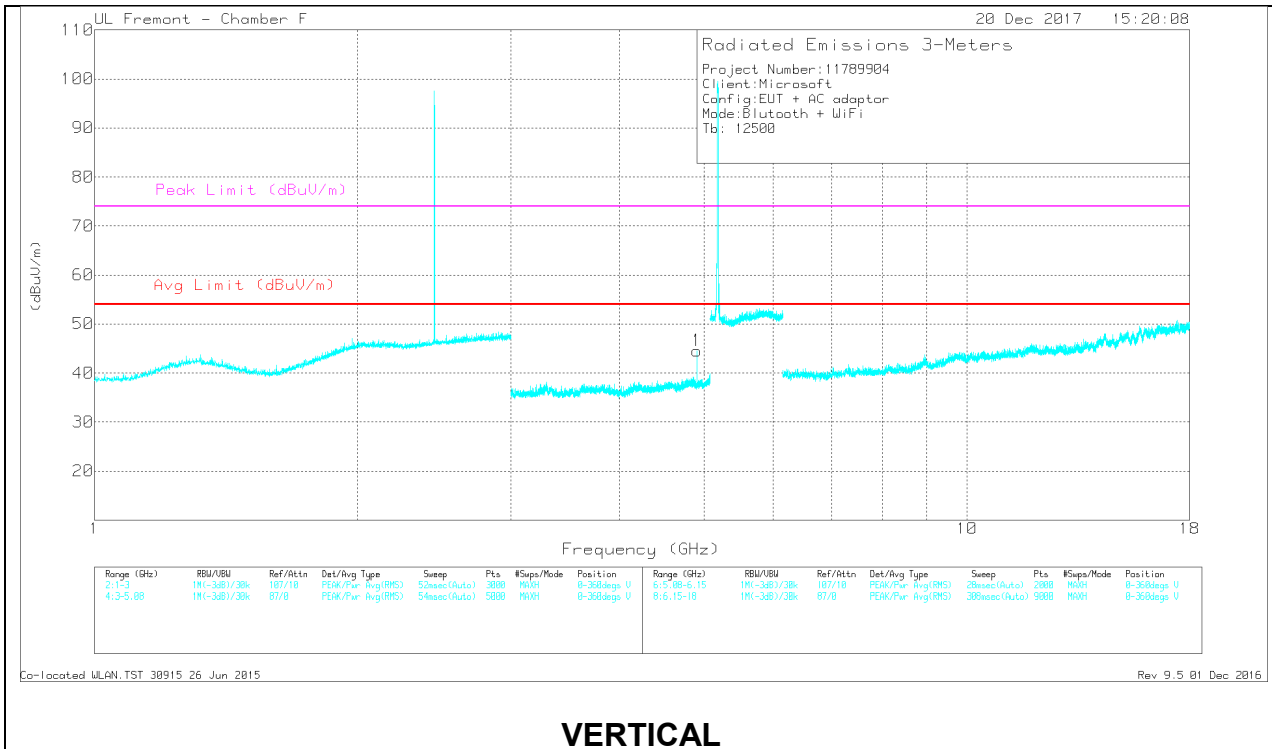
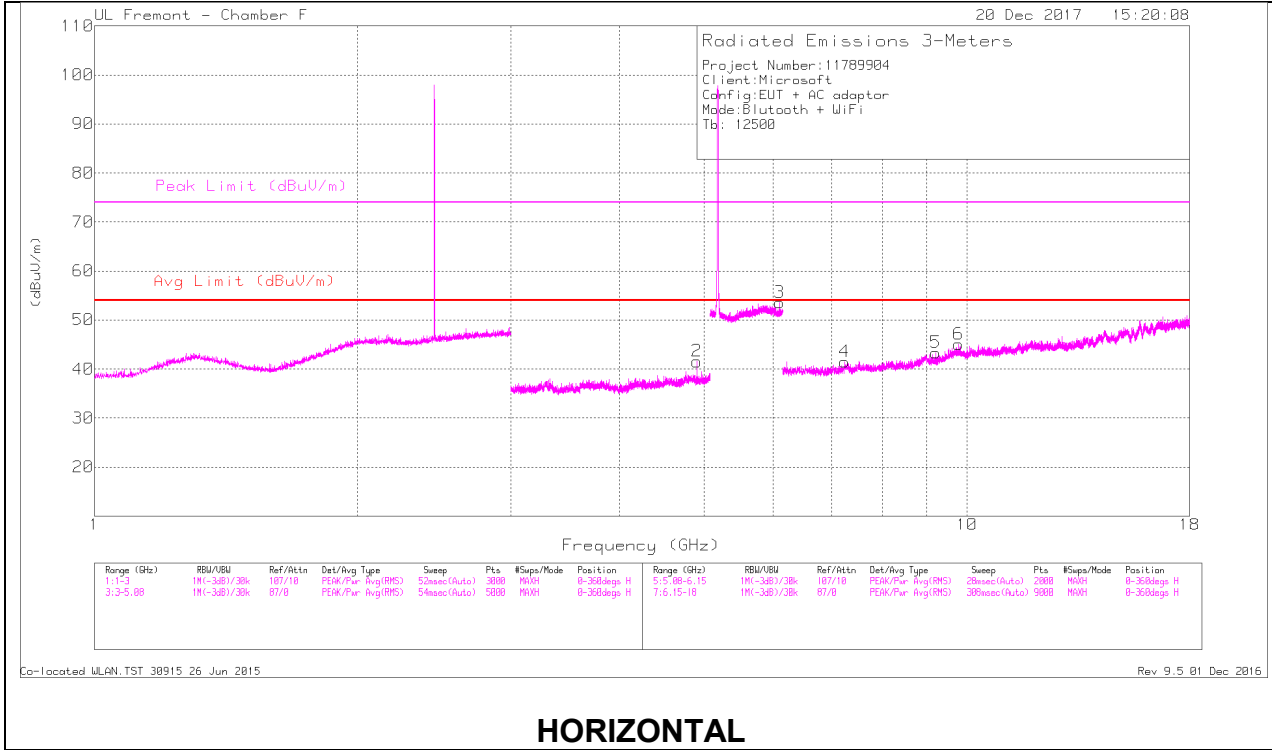


DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | T90 AF (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|--------|-----------------|----------------------|-----|---------------|--------------|----------------|------------------------------|--------------------|-------------|---------------------|----------------|
| 1 | 28.432 | 45.6 | Pk | 35.7 | -32.3 | -9.5 | 39.5 | 54 | -14.5 | 74 | -34.5 |
| 2 | 33.241 | 47.5 | Pk | 36.9 | -33.4 | -9.5 | 41.5 | 54 | -12.5 | 74 | -32.5 |
| 3 | 39.456 | 49.53 | Pk | 37.5 | -32.2 | -9.5 | 45.33 | 54 | -8.67 | 74 | -28.67 |
| 4 | 26.21 | 46.37 | Pk | 35.6 | -31.3 | -9.5 | 41.17 | 54 | -12.83 | 74 | -32.83 |
| 5 | 30.895 | 48.13 | Pk | 36 | -33.3 | -9.5 | 41.33 | 54 | -12.67 | 74 | -32.67 |
| 6 | 35.44 | 48.07 | Pk | 37.9 | -33.8 | -9.5 | 42.67 | 54 | -11.33 | 74 | -31.33 |

Pk - Peak detector

10.5. WORST-CASE SIMULTANEOUS TRANSMISSION



SIMULTANEOUS TRANSMISSION DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dBm) | Amp/Cbl/Filtr/Parad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------------------|--------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| 2 | * 4.902 | 37.71 | PK-U | 34.2 | -27.8 | 0 | 44.11 | - | - | 74 | -29.89 | 26 | 187 | H |
| | * 4.904 | 26.62 | ADR | 34.2 | -27.8 | 0 | 33.02 | 54 | -20.98 | - | - | 26 | 187 | H |
| 1 | * 4.904 | 39.45 | PK-U | 34.2 | -27.8 | 0 | 45.85 | - | - | 74 | -28.15 | 202 | 238 | V |
| | * 4.904 | 27.13 | ADR | 34.2 | -27.8 | 0 | 33.53 | 54 | -20.47 | - | - | 202 | 238 | V |
| 3 | 6.099 | 42.2 | PK-U | 35.2 | -17.4 | 0 | 60 | - | - | 74 | -14 | 113 | 236 | H |
| | 6.1 | 29.46 | ADR | 35.2 | -17.3 | 0 | 47.36 | 54 | -6.64 | - | - | 113 | 236 | H |
| 4 | 7.244 | 37.39 | PK-U | 35.9 | -25.3 | 0 | 47.99 | - | - | 74 | -26.01 | 257 | 239 | H |
| | 7.244 | 25.65 | ADR | 35.9 | -25.3 | 0 | 36.25 | 54 | -17.75 | - | - | 257 | 239 | H |
| 5 | 9.217 | 35.5 | PK-U | 36.4 | -22 | 0 | 49.9 | - | - | 74 | -24.1 | 224 | 142 | H |
| | 9.214 | 23.43 | ADR | 36.3 | -22 | 0 | 37.73 | 54 | -16.27 | - | - | 224 | 142 | H |
| 6 | 9.78 | 35.01 | PK-U | 37.4 | -21.3 | 0 | 51.11 | - | - | 74 | -22.89 | 0 | 329 | H |
| | 9.782 | 23.45 | ADR | 37.4 | -21.3 | 0 | 39.55 | 54 | -14.45 | - | - | 0 | 329 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

*Decreases with the logarithm of the frequency.

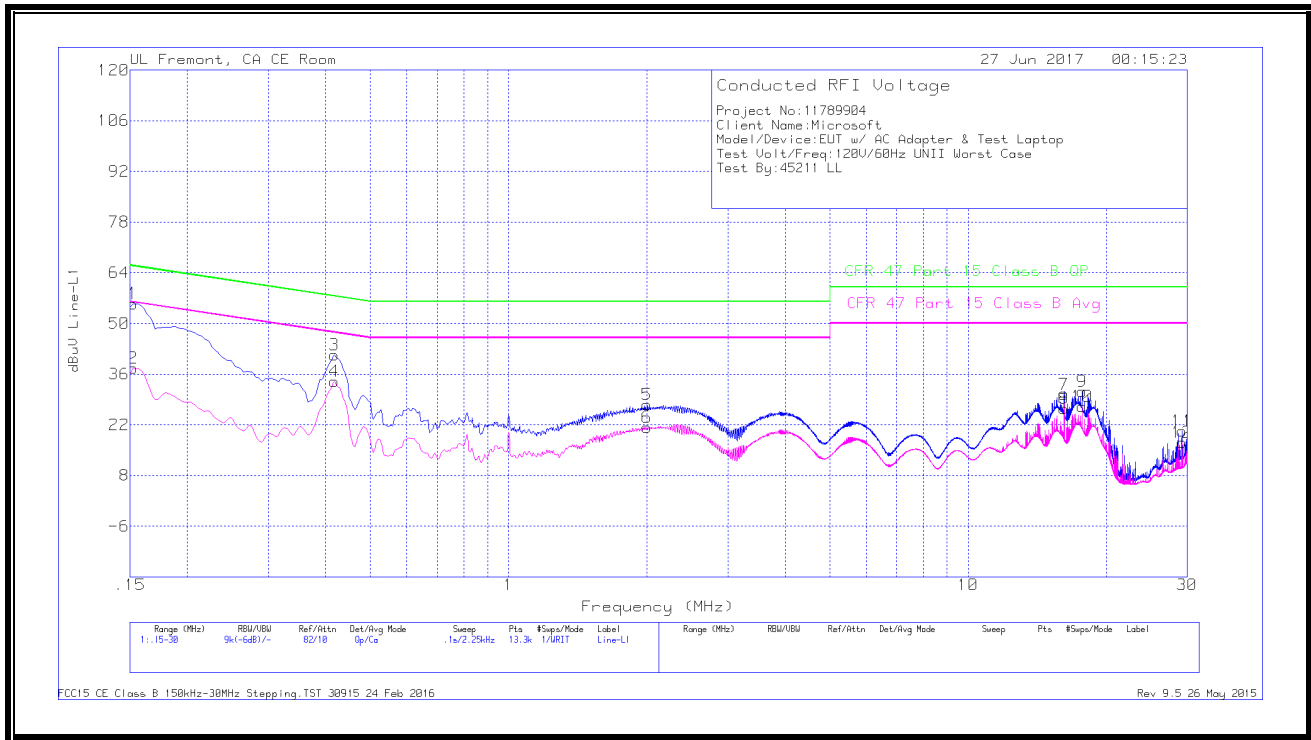
TEST PROCEDURE

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

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

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

LINE 1 RESULTS



Trace Markers

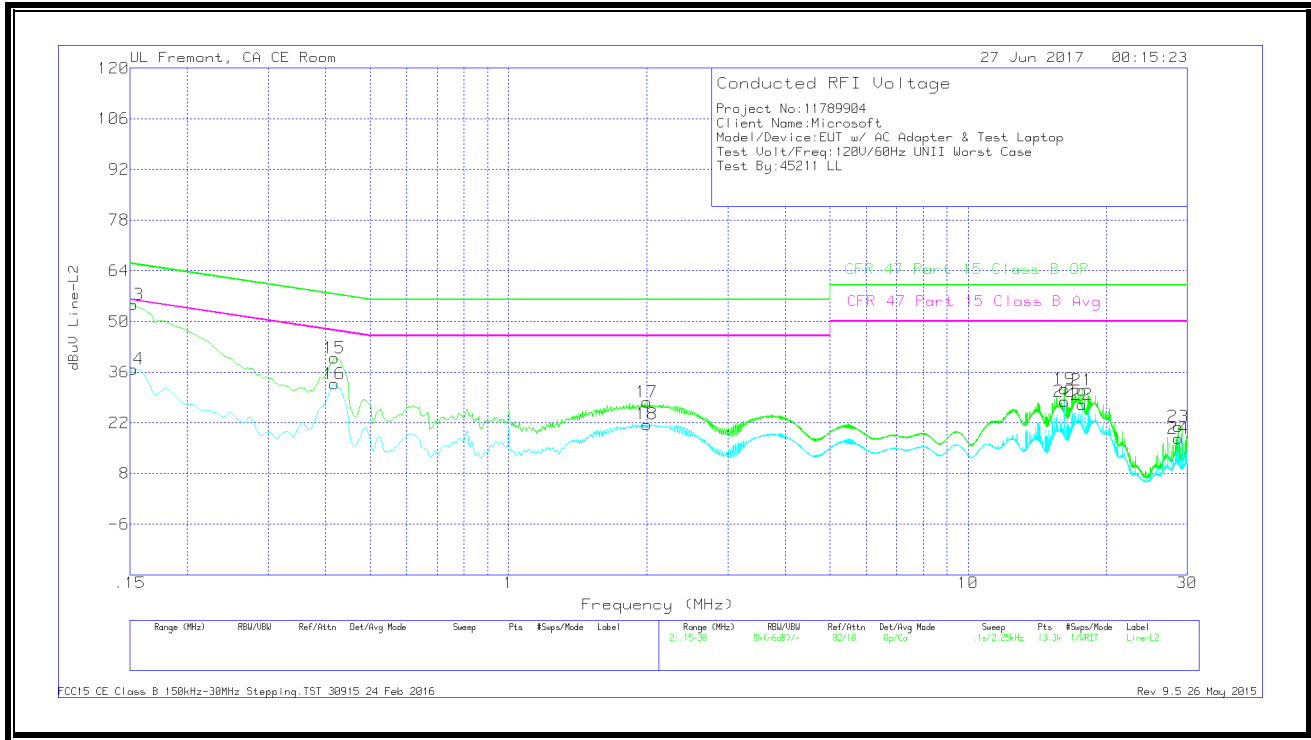
Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR) Margin (dB) |
|--------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| 1 | .15225 | 45.17 | Qp | .1 | .1 | 10.1 | 55.47 | 65.88 | -10.41 | - | - |
| 2 | .15225 | 27.38 | Ca | .1 | .1 | 10.1 | 37.68 | - | - | 55.88 | -18.2 |
| 3 | .41775 | 31.05 | Qp | 0 | .1 | 10.1 | 41.25 | 57.49 | -16.24 | - | - |
| 4 | .41775 | 23.76 | Ca | 0 | .1 | 10.1 | 33.96 | - | - | 47.49 | -13.53 |
| 5 | 2.00175 | 17.3 | Qp | 0 | .1 | 10.1 | 27.5 | 56 | -28.5 | - | - |
| 6 | 1.9995 | 11.17 | Ca | 0 | .1 | 10.1 | 21.37 | - | - | 46 | -24.63 |
| 7 | 16.16775 | 19.8 | Qp | 0 | .2 | 10.3 | 30.3 | 60 | -29.7 | - | - |
| 8 | 16.16775 | 16.06 | Ca | 0 | .2 | 10.3 | 26.56 | - | - | 50 | -23.44 |
| 9 | 17.69325 | 20.79 | Qp | 0 | .2 | 10.3 | 31.29 | 60 | -28.71 | - | - |
| 10 | 17.69325 | 16.59 | Ca | 0 | .2 | 10.3 | 27.09 | - | - | 50 | -22.91 |
| 11 | 29.23575 | 9.45 | Qp | .1 | .3 | 10.4 | 20.25 | 60 | -39.75 | - | - |
| 12 | 29.23575 | 6.4 | Ca | .1 | .3 | 10.4 | 17.2 | - | - | 50 | -32.8 |

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



Trace Markers

Range 2: Line-L2 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR) Margin (dB) |
|--------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| 13 | .15225 | 44.56 | Qp | 0 | 0 | 10.1 | 54.66 | 65.88 | -11.22 | - | - |
| 14 | .15225 | 26.77 | Ca | 0 | 0 | 10.1 | 36.87 | - | - | 55.88 | -19.01 |
| 15 | .41775 | 29.72 | Qp | 0 | .1 | 10.1 | 39.92 | 57.49 | -17.57 | - | - |
| 16 | .41775 | 22.55 | Ca | 0 | .1 | 10.1 | 32.75 | - | - | 47.49 | -14.74 |
| 17 | 2.00175 | 17.56 | Qp | 0 | .1 | 10.1 | 27.76 | 56 | -28.24 | - | - |
| 18 | 2.00063 | 11.38 | Ca | 0 | .1 | 10.1 | 21.58 | - | - | 46 | -24.42 |
| 19 | 16.2285 | 20.91 | Qp | 0 | .2 | 10.3 | 31.41 | 60 | -28.59 | - | - |
| 20 | 16.2285 | 17.36 | Ca | 0 | .2 | 10.3 | 27.86 | - | - | 50 | -22.14 |
| 21 | 17.69325 | 20.62 | Qp | 0 | .2 | 10.3 | 31.12 | 60 | -28.88 | - | - |
| 22 | 17.69325 | 16.51 | Ca | 0 | .2 | 10.3 | 27.01 | - | - | 50 | -22.99 |
| 23 | 28.6845 | 10.02 | Qp | .1 | .3 | 10.5 | 20.92 | 60 | -39.08 | - | - |
| 24 | 28.6845 | 6.78 | Ca | .1 | .3 | 10.5 | 17.68 | - | - | 50 | -32.32 |

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. DYNAMIC FREQUENCY SELECTION

12.1. OVERVIEW

12.1.1. LIMITS

INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 2

Note: For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

FCC

§15.407 (h), FCC KDB 905462 D02 “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION” and KDB 905462 D03 “U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY”.

Table 1: Applicability of DFS requirements prior to use of a channel

| Requirement | Operational Mode | | |
|---------------------------------|------------------|----------------------------------|-------------------------------|
| | Master | Client (without radar detection) | Client (with radar detection) |
| Non-Occupancy Period | Yes | Not required | Yes |
| DFS Detection Threshold | Yes | Not required | Yes |
| Channel Availability Check Time | Yes | Not required | Not required |
| U-NII Detection Bandwidth | Yes | Not required | Yes |

Table 2: Applicability of DFS requirements during normal operation

| Requirement | Operational Mode | | |
|-----------------------------------|------------------|----------------------|-------------------|
| | Master | Client (without DFS) | Client (with DFS) |
| DFS Detection Threshold | Yes | Not required | Yes |
| Channel Closing Transmission Time | Yes | Yes | Yes |
| Channel Move Time | Yes | Yes | Yes |
| U-NII Detection Bandwidth | Yes | Not required | Yes |

| | | |
|---|--|--|
| Additional requirements for devices with multiple bandwidth modes | Master Device or Client with Radar DFS | Client (without DFS) |
| <i>U-NII Detection Bandwidth and Statistical Performance Check</i> | All BW modes must be tested | Not required |
| <i>Channel Move Time and Channel Closing Transmission Time</i> | Test using widest BW mode available | Test using the widest BW mode available for the link |
| <i>All other tests</i> | Any single BW mode | Not required |
| <p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.</p> | | |

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

| Maximum Transmit Power | Value (see notes) |
|---|----------------------|
| E.I.R.P. \geq 200 mill watt | -64 dBm |
| E.I.R.P. < 200 mill watt and power spectral density < 10 dBm/MHz | -62 dBm |
| E.I.R.P. < 200 mill watt that do not meet power spectral density requirement | -64 dBm |
| <p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.</p> | |

Table 4: DFS Response requirement values

| Parameter | Value |
|--|---|
| <i>Non-occupancy period</i> | 30 minutes |
| <i>Channel Availability Check Time</i> | 60 seconds |
| <i>Channel Move Time</i> | 10 seconds (See Note 1) |
| <i>Channel Closing Transmission Time</i> | 200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2) |
| <i>U-NII Detection Bandwidth</i> | Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3) |
| <p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p> | |

Table 5 – Short Pulse Radar Test Waveforms

| Radar Type | Pulse Width (usec) | PRI (usec) | Pulses | Minimum Percentage of Successful Detection | Minimum Trials |
|---|--------------------|---|---|--|----------------|
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 |
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in table 5a | Roundup: $\{(1/360) \times (19 \times 10^6 \text{ PRI}_{\text{usec}})\}$ | 60% | 30 |
| | | Test B: 15 unique PRI values randomly selected within the range of 518-3066 usec. With a minimum increment of 1 usec, excluding PRI values selected in Test A | | | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |
| Note 1: Short Pulse Radar Type 0 should be used for the <i>Detection Bandwidth</i> test, <i>Channel Move Time</i> , and <i>Channel Closing Time</i> tests. | | | | | |

Table 6 – Long Pulse Radar Test Signal

| Radar Waveform Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Trials |
|---------------------|--------------------|-------------------|------------|------------------|------------------|--|----------------|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

Table 7 – Frequency Hopping Radar Test Signal

| Radar Waveform Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Trials |
|---------------------|--------------------|------------|----------------|--------------------|--------------------------------|--|----------------|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the DFS tests documented in this report:

| TEST EQUIPMENT LIST | | | | |
|--|--------------|--------|---------------|----------|
| Description | Manufacturer | Model | Serial Number | Cal Due |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | Keysight | N9030A | MY55410147 | 12/15/17 |
| Signal Generator, MXG X-Series RF Vector | Agilent | N5182B | MY51350337 | 04/21/18 |

12.1.3. TEST AND MEASUREMENT SOFTWARE

The following test and measurement software was utilized for the tests documented in this report:

| TEST SOFTWARE LIST | | |
|--------------------|---------|--|
| Name | Version | Test / Function |
| Aggregate Time-PXA | 3.0 | Channel Loading and Aggregate Closing Time |
| PXA Read | 3.0.0.9 | Signal Generator Screen Capture |
| SGXProject.exe | 1.7 | Radar Waveform Generation and Download |

12.1.4. TEST ROOM ENVIRONMENT

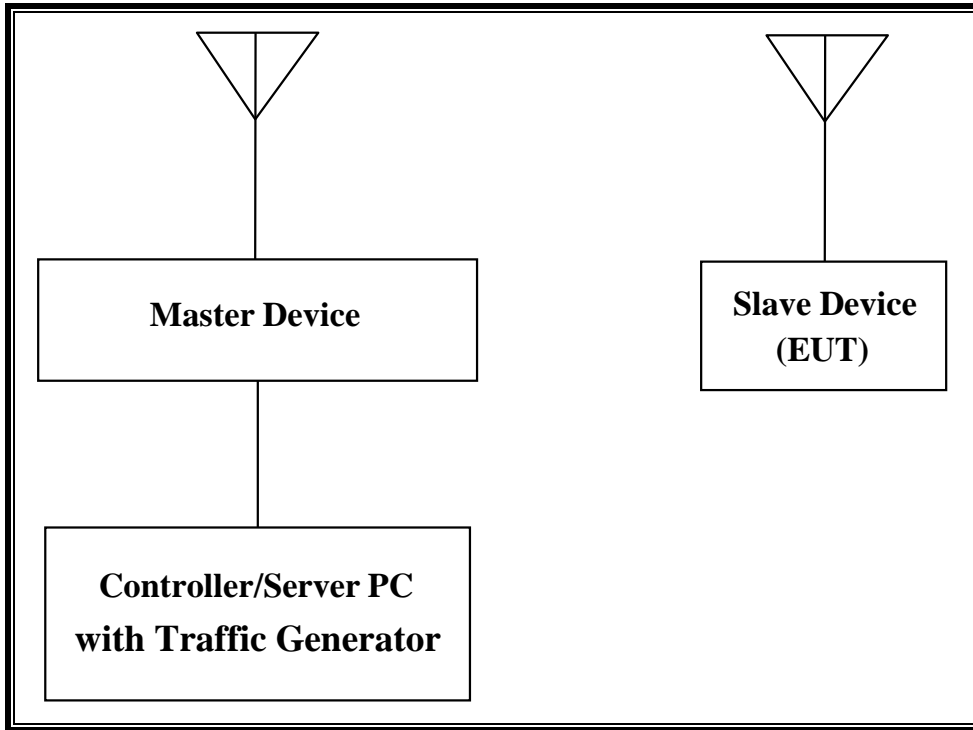
The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

ENVIRONMENT CONDITION

| Parameter | Value |
|-------------|---------|
| Temperature | 25.3 °C |
| Humidity | 33 % |

12.1.5. SETUP OF EUT

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | |
|--|--------------------------|-------------------|-------------------------|---------------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| AC Adapter (EUT) | Microsoft japan Co. Ltd. | 1735 | 0C130E00JVF6A | DoC |
| 802.11ac Dual Band Wireless Access Point (Master Device) | Cisco | AIR-CAP3702E-A-K9 | FTX181570A6 | LDK102087 |
| P.O.E. Injector (Master Device) | Phihong | POE30U-560(G) | PHI170102N2 | DoC |
| Notebook PC (Controller/Server) | Lenovo | Type 4236-B92 | PB-HEX04 12/05 | DoC |
| AC Adapter (Controller/Server PC) | Lenovo | 42T4418 | 11S42T4418Z1ZGWG08 R90M | DoC |

12.1.6. DESCRIPTION OF EUT

For FCC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

For IC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 19.67 dBm EIRP in the 5250-5350 MHz band and 21.02 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT consists of two antennas with respective gains of 3.5 dBi and 5.3 dBi in the 5250-5350 MHz band and 3.8 dBi and 5.3 dBi in the 5470-5725 MHz band.

Two antennas are utilized to meet the diversity and MIMO operational requirements.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63$ dBm.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses two transmitter/receiver chains, each connected to an antenna to perform radiated tests.

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the Master Device to the Slave Device using iPerf version 2.0.5 software package.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the EUT is revision 14.2.201.151.

The software installed in the access point is AP3G2-K9W7-M Version 15.2(4)JB4.

UNIFORM CHANNEL SPREADING

This is requirement not applicable to Slave Devices.

OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 dBi.

The rated output power of the Master unit is $> 23\text{dBm}$ (EIRP). Therefore the required interference threshold level is -64 dBm . After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63\text{ dBm}$.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm . The tested level is lower than the required level hence it provides a margin to the limit.

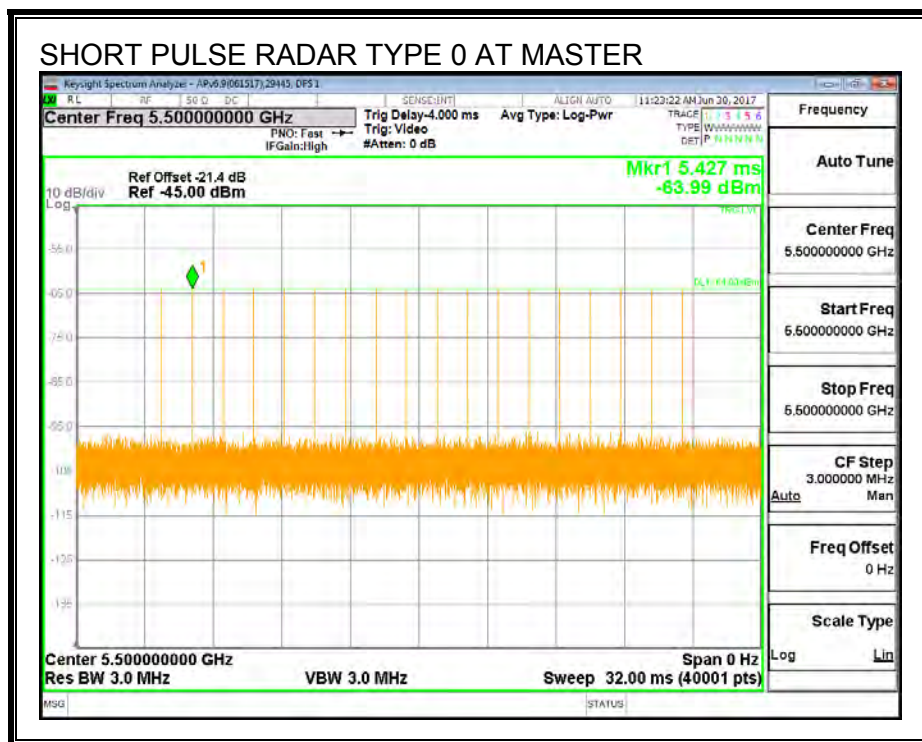
12.2. RESULTS FOR 20 MHz BANDWIDTH

12.2.1. TEST CHANNEL

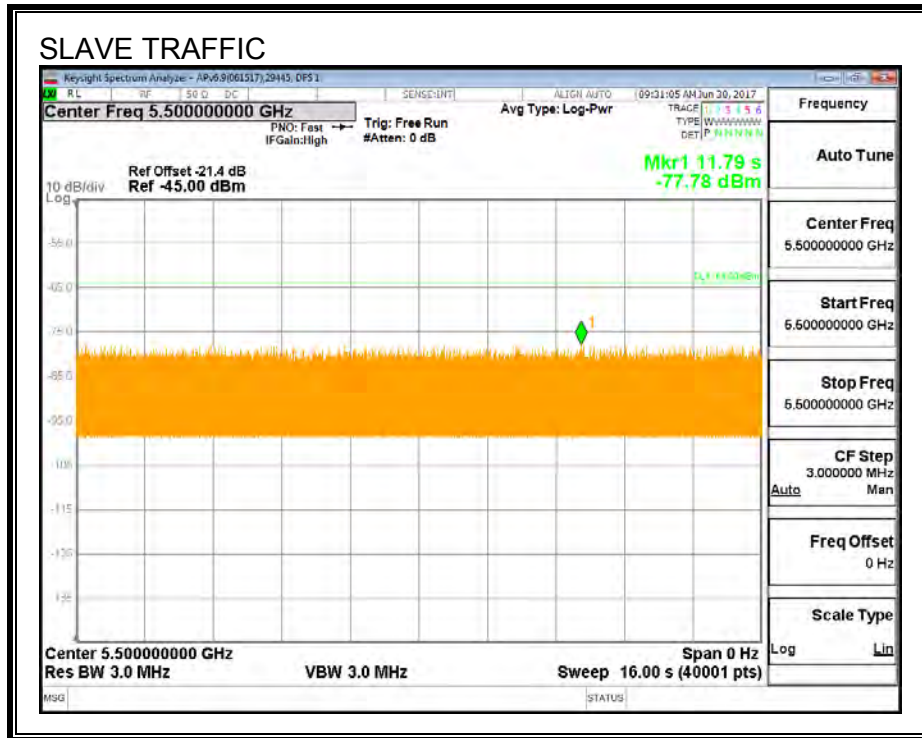
All tests were performed at a channel center frequency of 5500 MHz.

12.2.2. RADAR WAVEFORM AND TRAFFIC

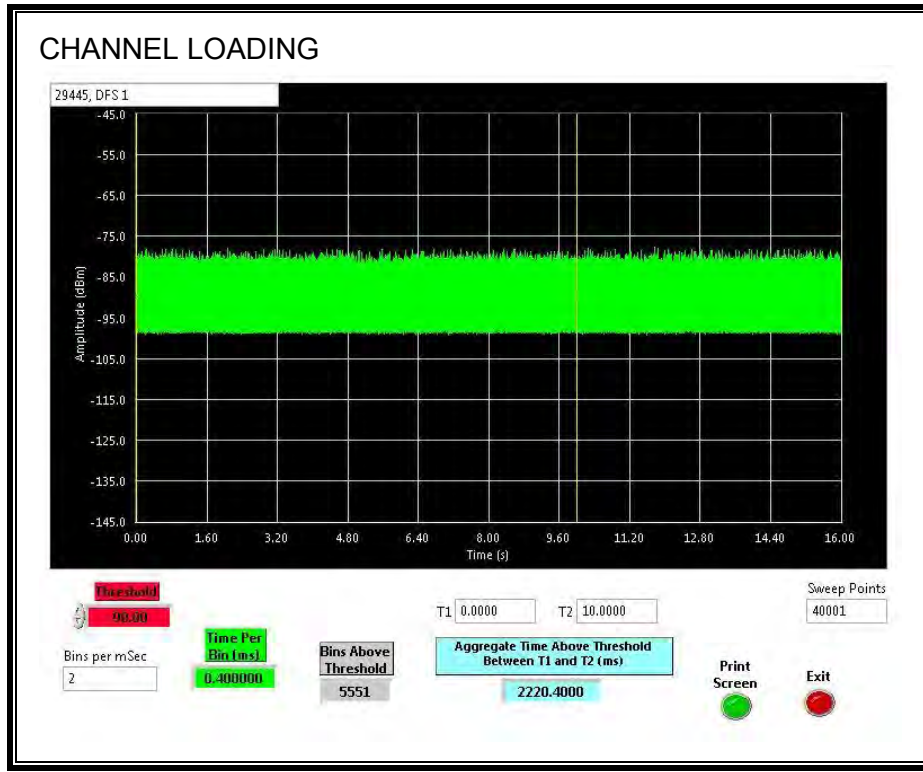
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 22.2%

12.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

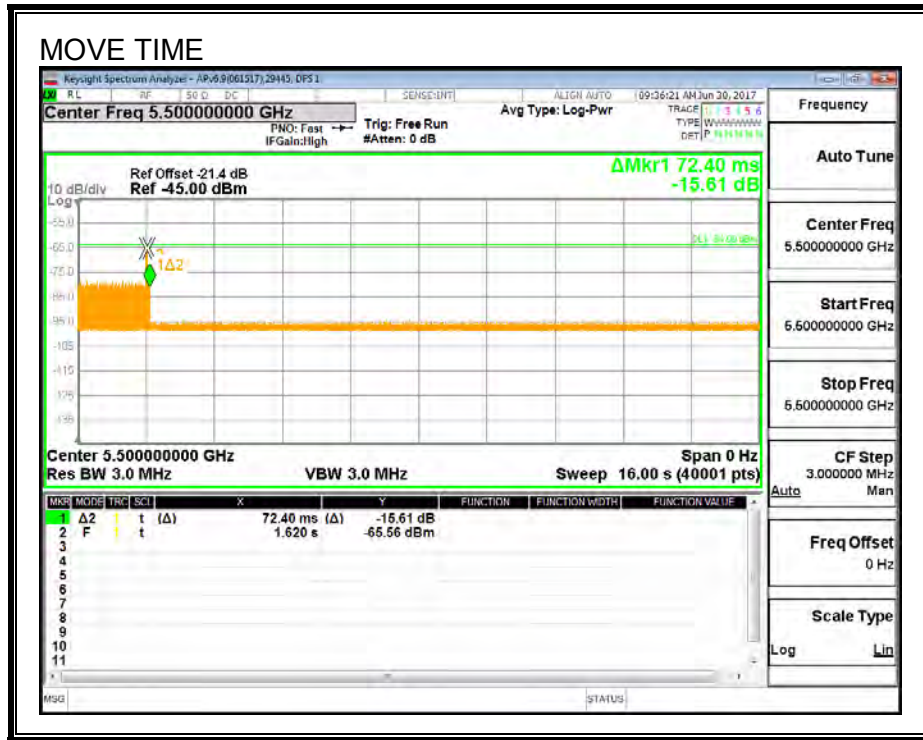
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

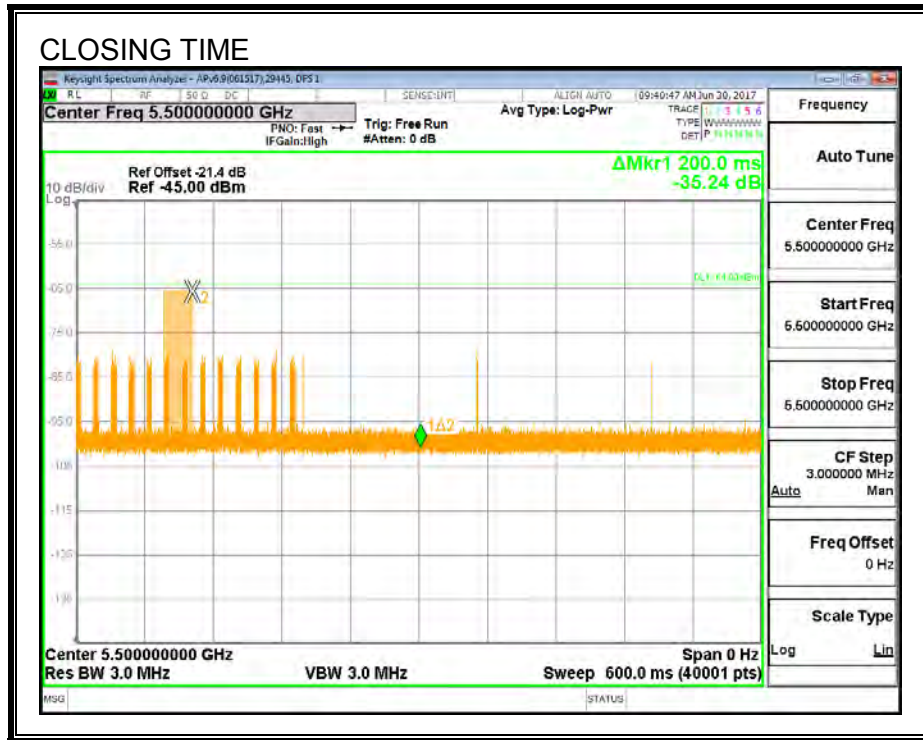
| Channel Move Time (sec) | Limit (sec) |
|----------------------------|----------------|
| 0.0724 | 10 |

| Aggregate Channel Closing Transmission Time (msec) | Limit (msec) |
|---|-----------------|
| 0.0 | 60 |

MOVE TIME

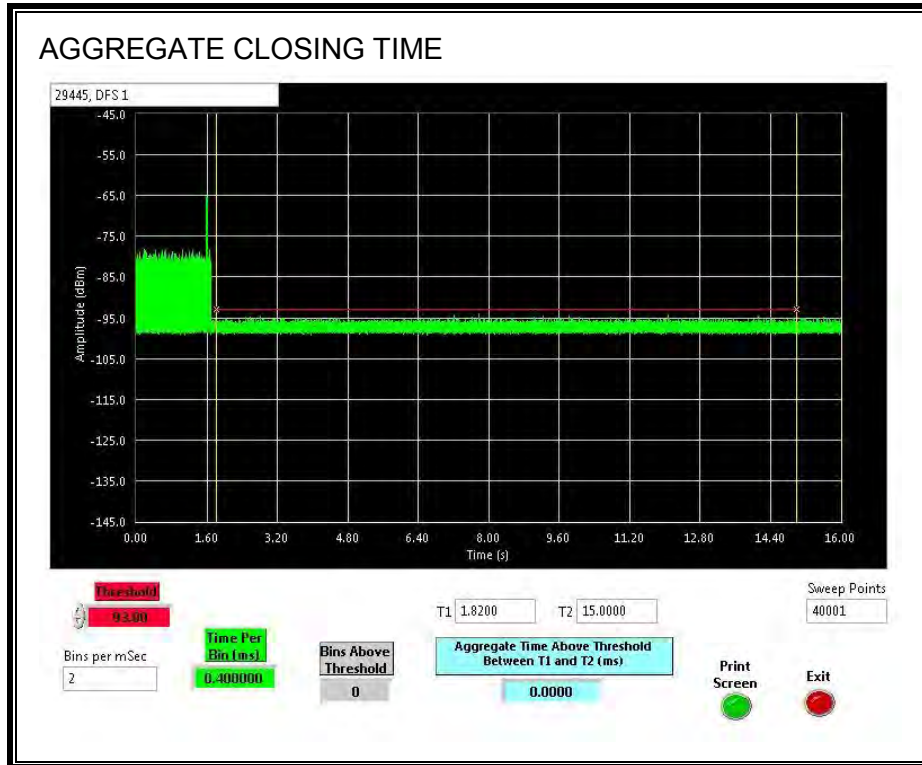


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



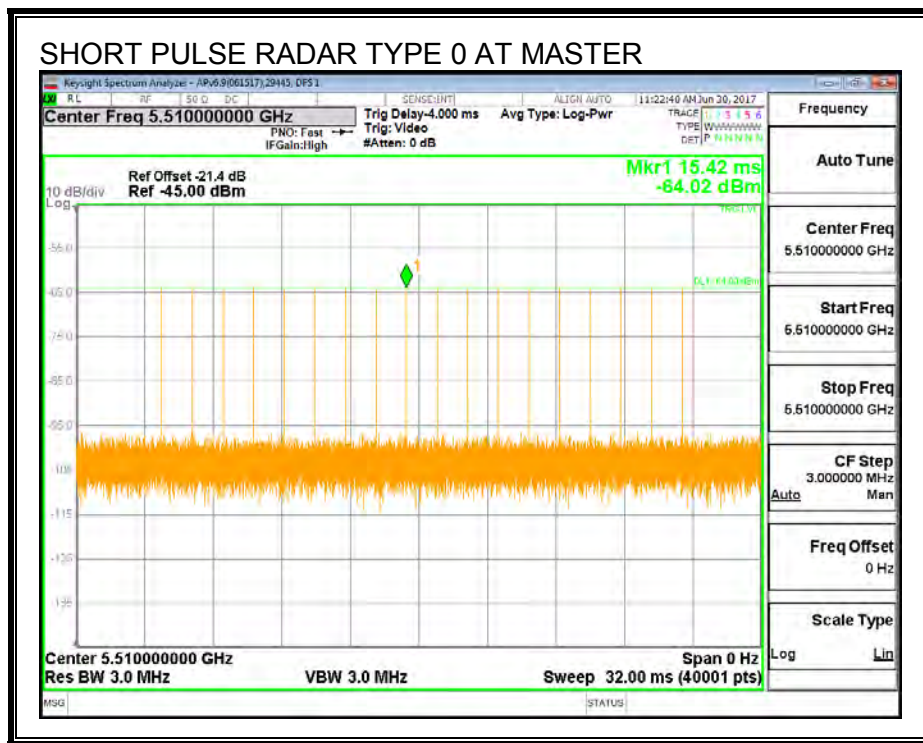
12.3. RESULTS FOR 40 MHz BANDWIDTH

12.3.1. TEST CHANNEL

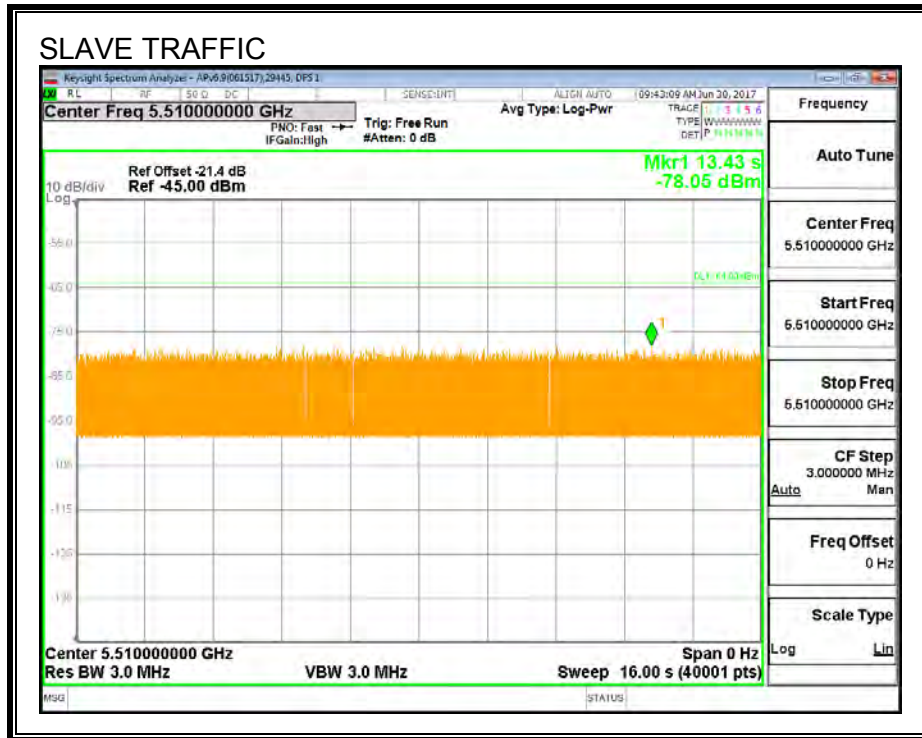
All tests were performed at a channel center frequency of 5510 MHz.

12.3.2. RADAR WAVEFORM AND TRAFFIC

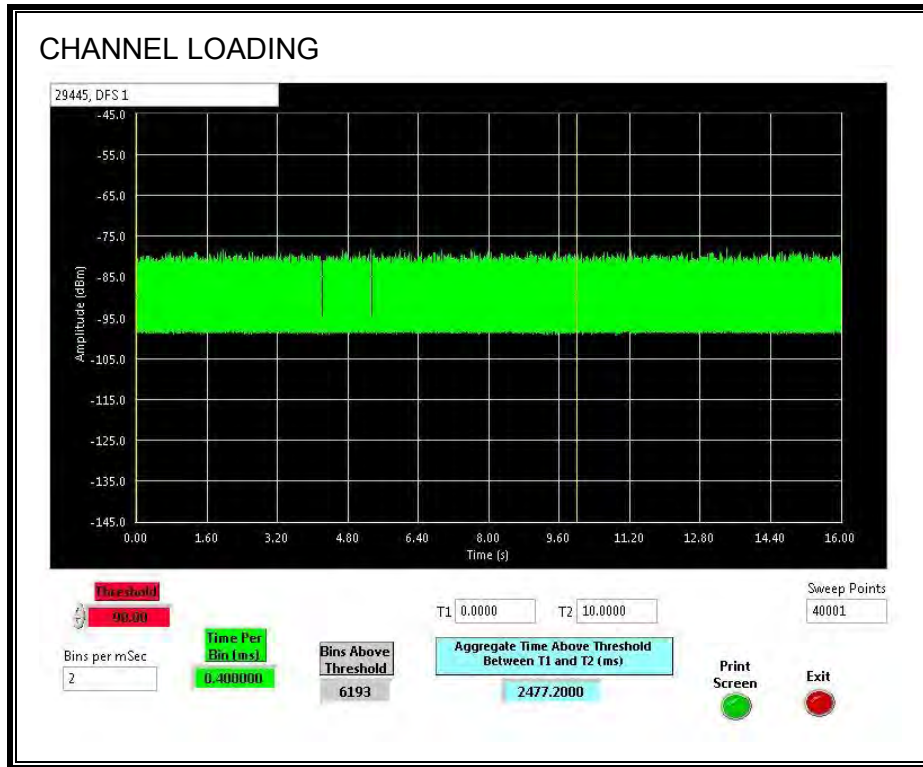
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 24.77%

12.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

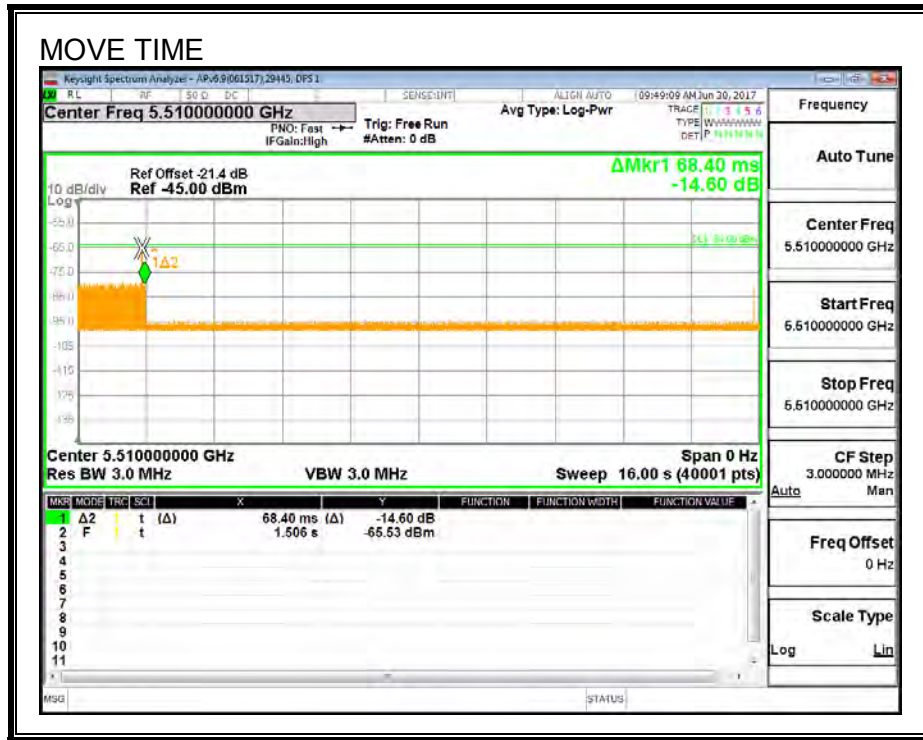
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

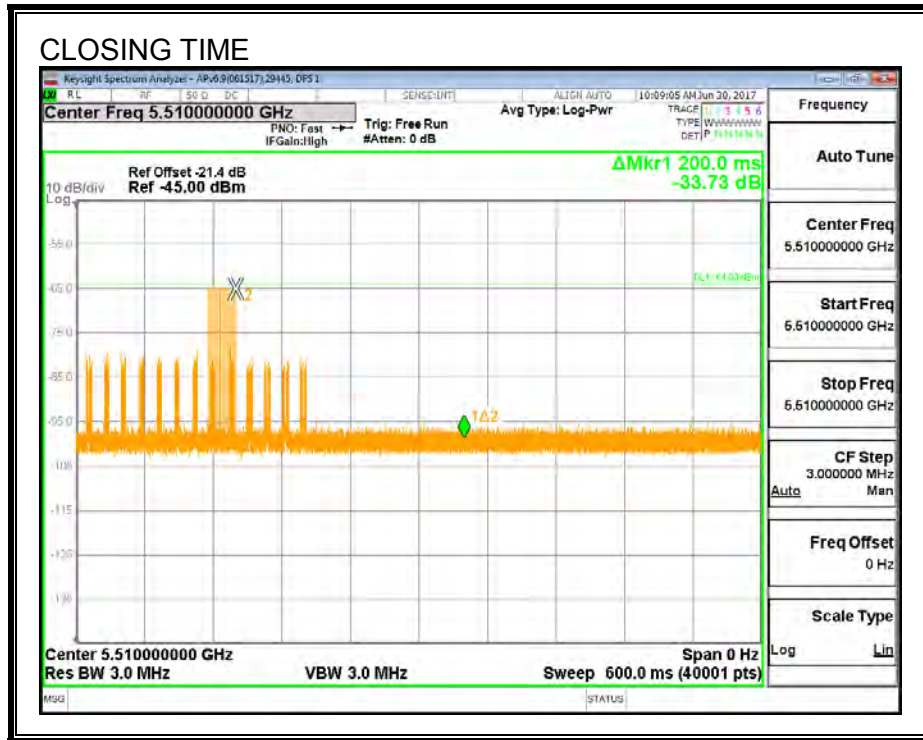
| Channel Move Time (sec) | Limit (sec) |
|----------------------------|----------------|
| 0.0684 | 10 |

| Aggregate Channel Closing Transmission Time (msec) | Limit (msec) |
|---|-----------------|
| 0.0 | 60 |

MOVE TIME

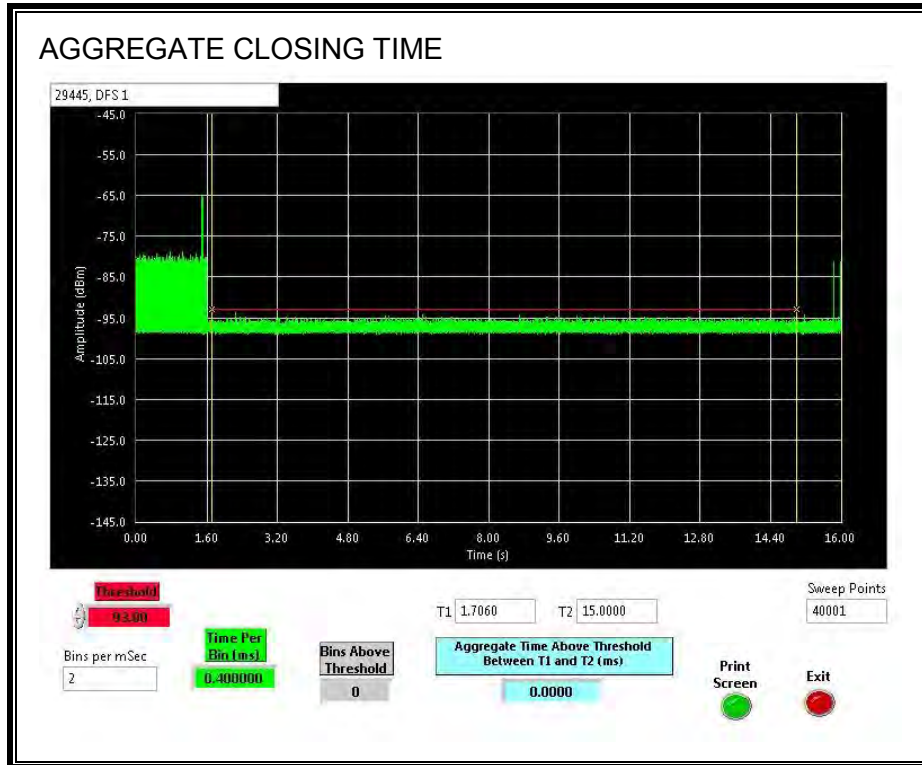


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



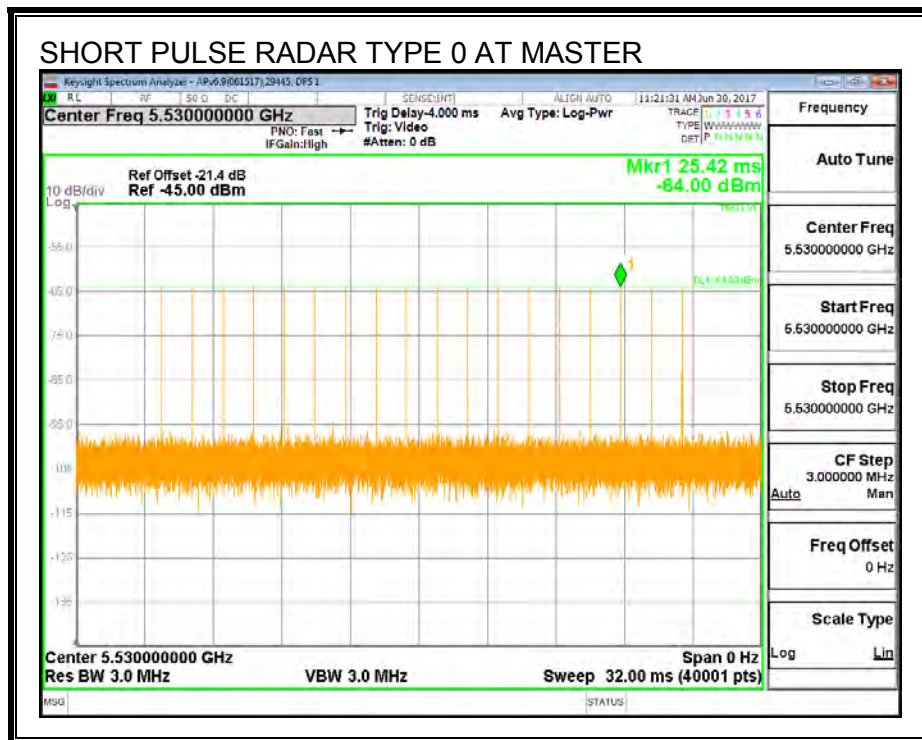
12.4. RESULTS FOR 80 MHz BANDWIDTH

12.4.1. TEST CHANNEL

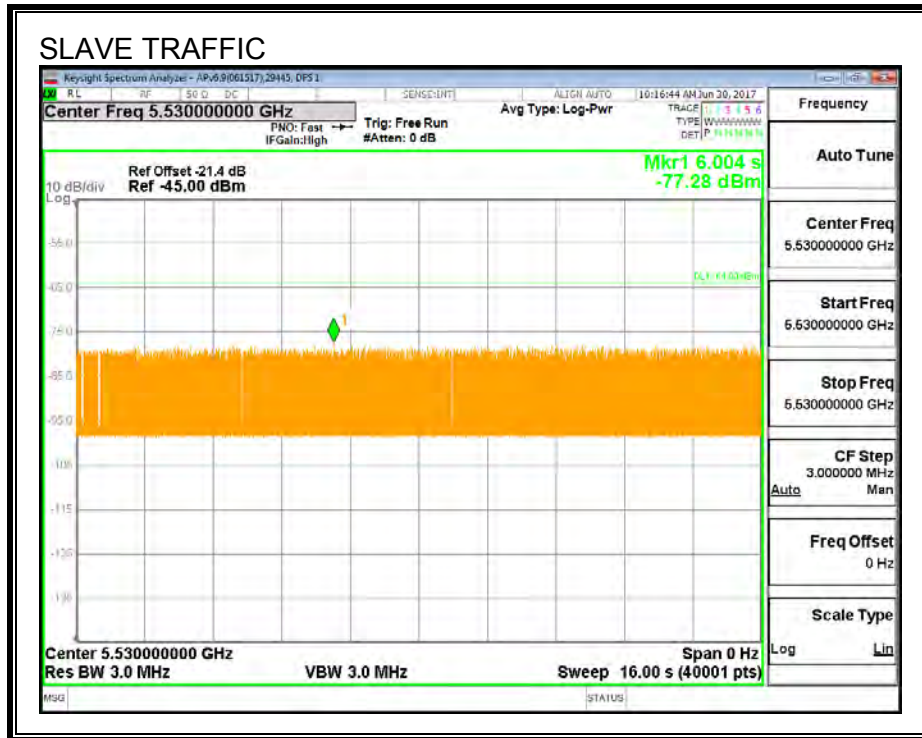
All tests were performed at a channel center frequency of 5530 MHz.

12.4.2. RADAR WAVEFORM AND TRAFFIC

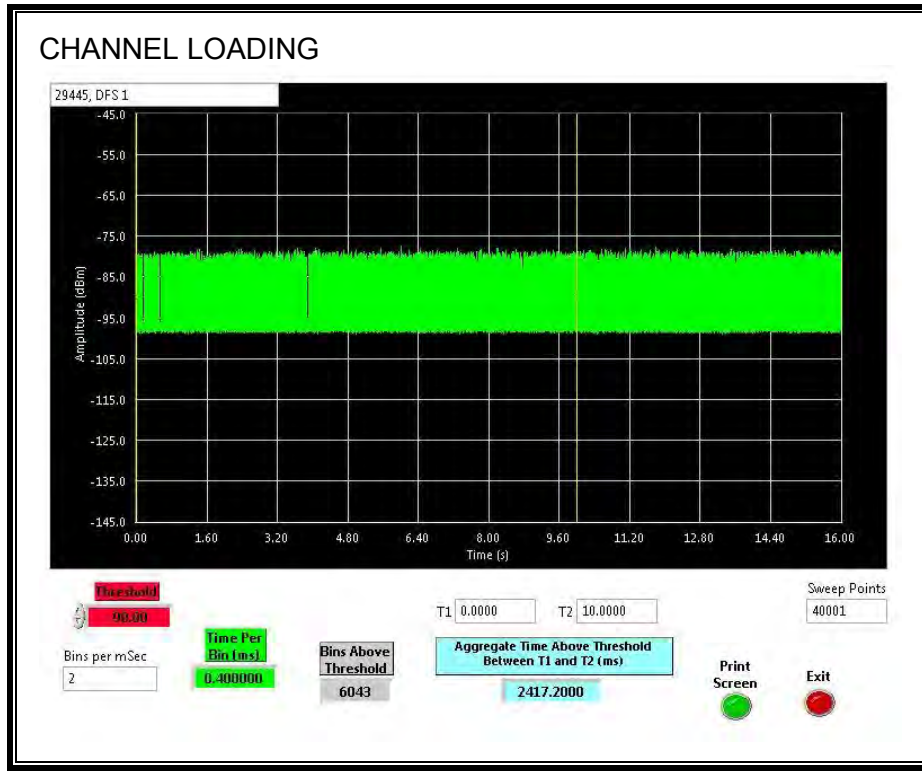
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 24.17%

12.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

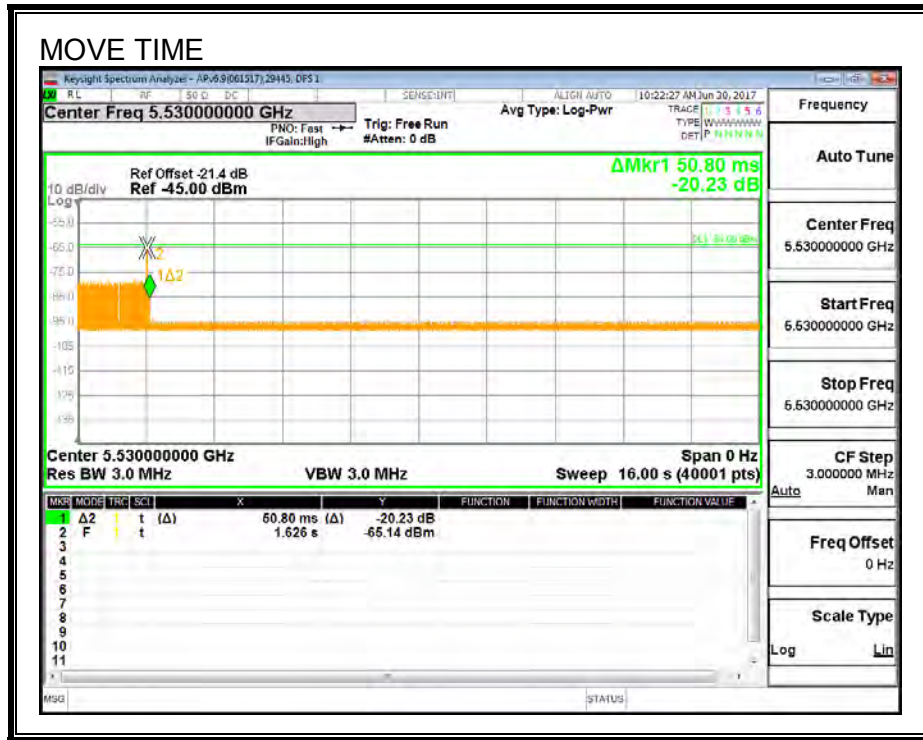
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

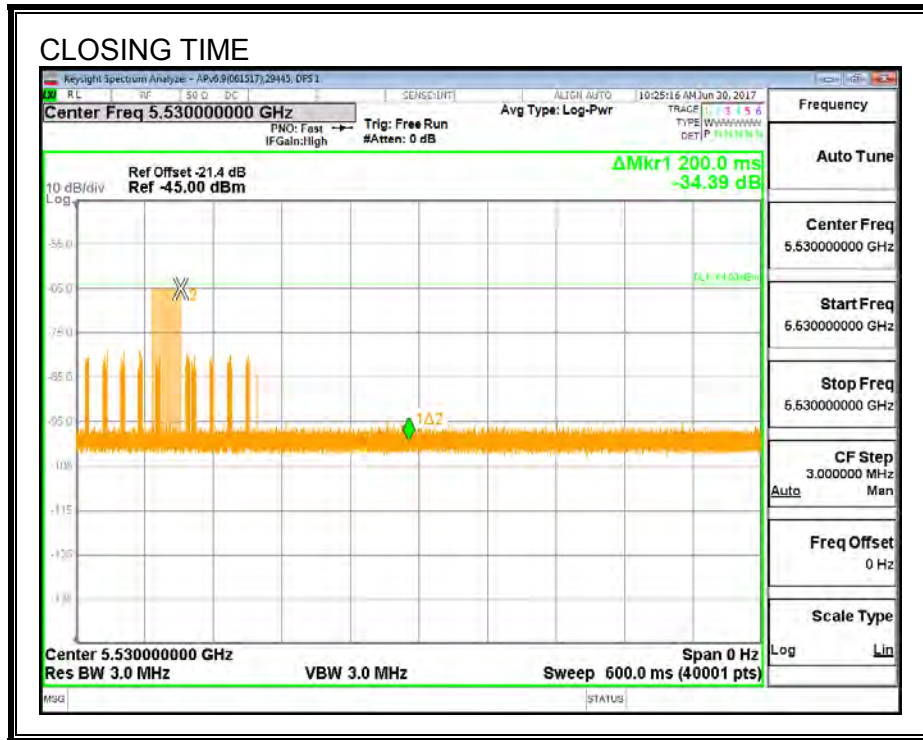
| Channel Move Time (sec) | Limit (sec) |
|----------------------------|----------------|
| 0.0508 | 10 |

| Aggregate Channel Closing Transmission Time (msec) | Limit (msec) |
|---|-----------------|
| 0.0 | 60 |

MOVE TIME

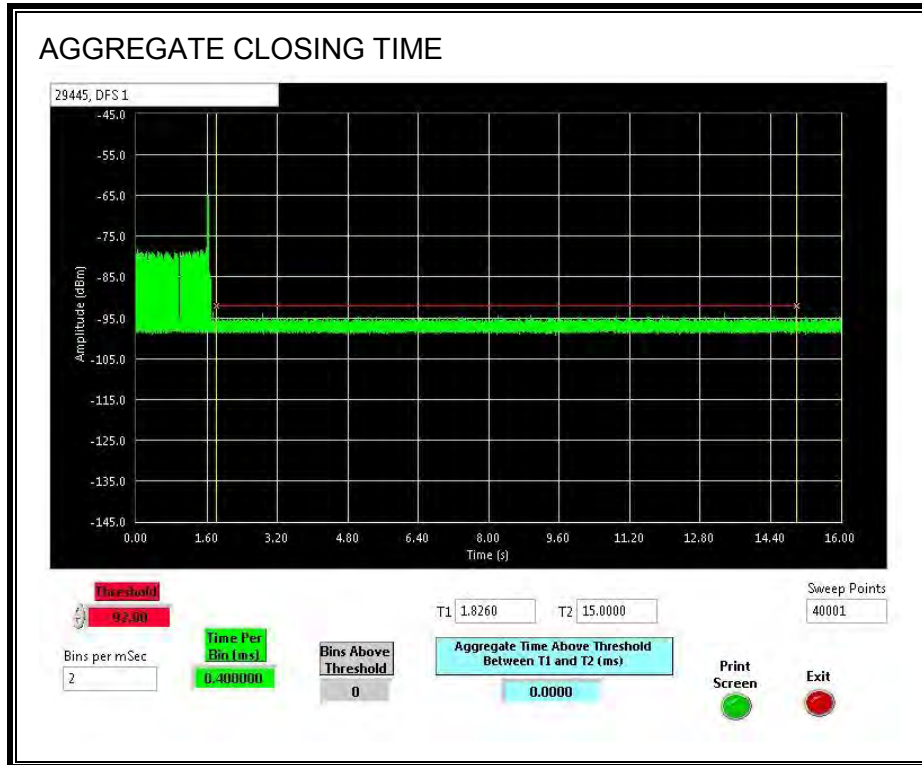


CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



12.4.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

There were no EUT transmissions observed on the test channel during the 30-minute observation time. The Master Device performed a new CAC on the test channel. After no radar was detected during the CAC period the EUT associated to the Master Device and transmissions resumed on the test channel.

