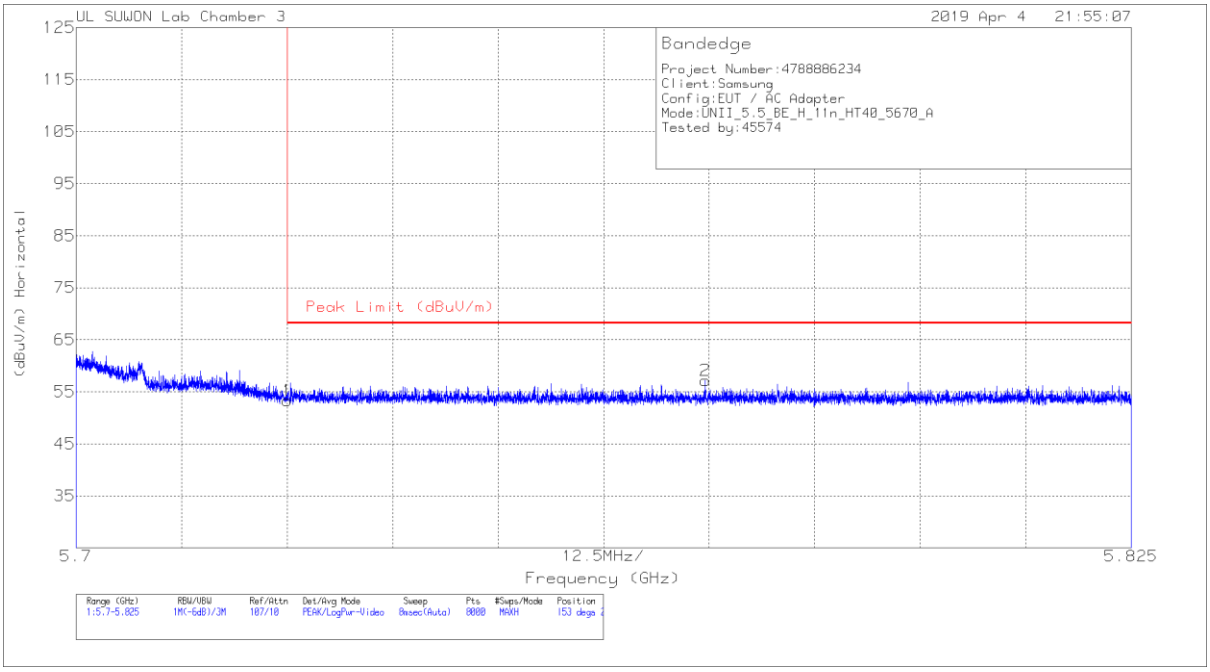
# AUTHORIZED BANDEDGE (HIGH CHANNEL)

## HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 36.42 | Pk | 34.8 | -17.9 | 53.32 | 68.2 | -14.88 | 153 | 254 | H |
| 2 | 5.775 | 40.05 | Pk | 34.9 | -17.8 | 57.15 | 68.2 | -11.05 | 153 | 254 | H |

Pk - Peak detector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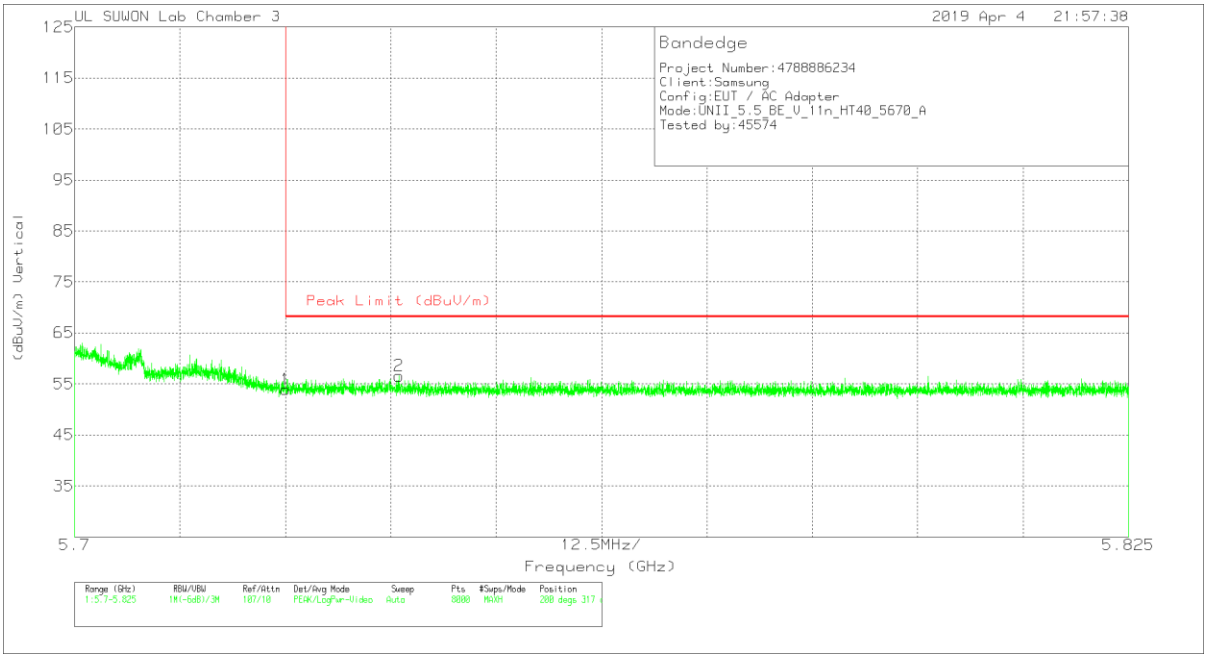
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 36.98 | Pk | 34.8 | -17.9 | 53.88 | 68.2 | -14.32 | 200 | 317 | V |
| 2 | 5.738 | 39.67 | Pk | 34.8 | -17.9 | 56.57 | 68.2 | -11.63 | 200 | 317 | V |

Pk - Peak detector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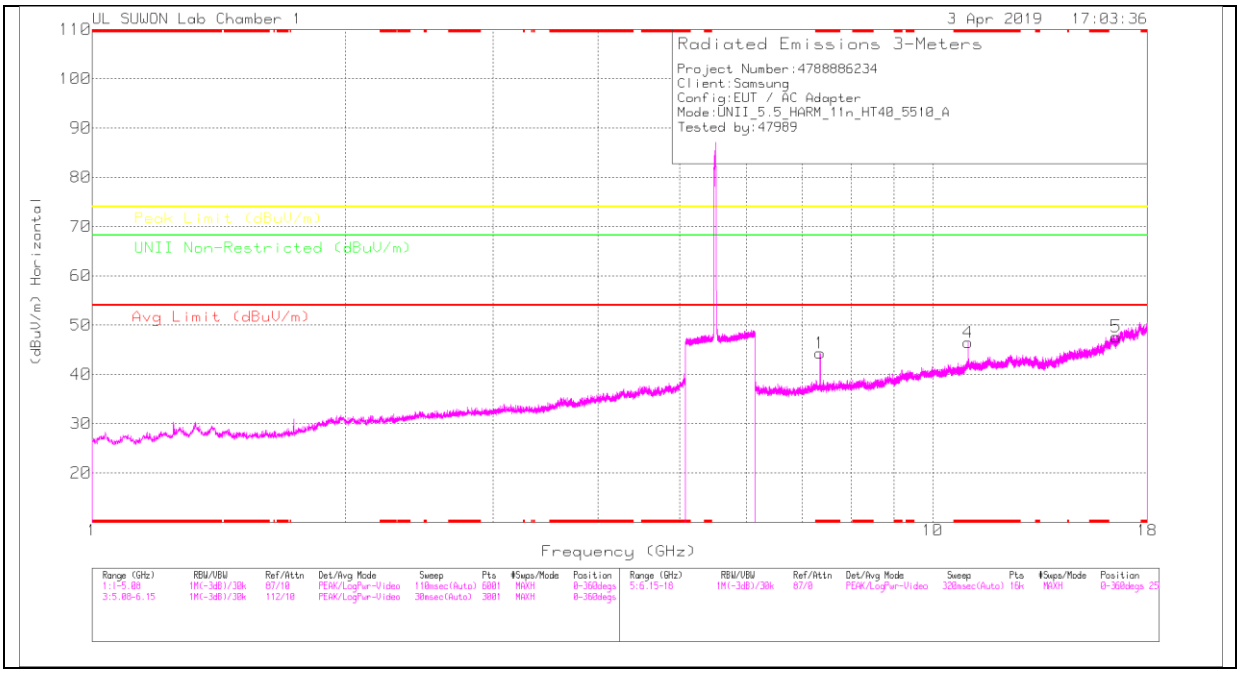
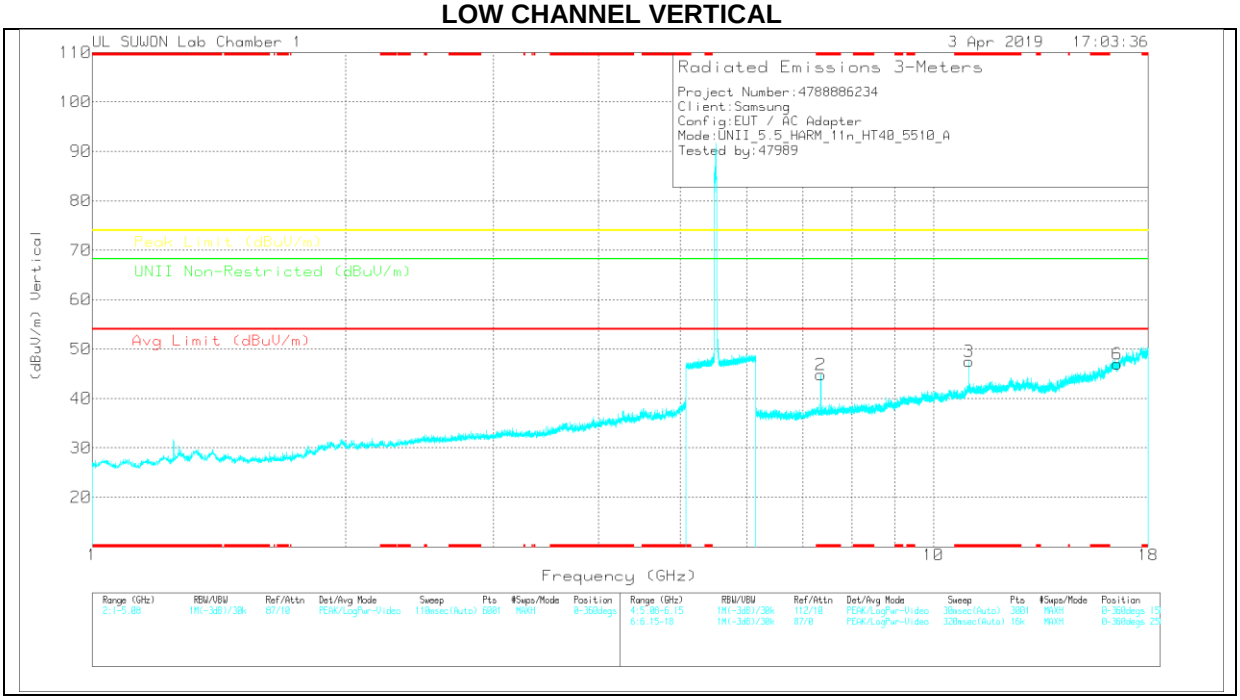
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




## LOW CHANNEL VERTICAL




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## LOW CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.346 | 35.87 | PK | 35.8 | -27.4 | 0 | 44.27 | - | - | 74 | -29.73 | - | - | 0-360 | 250 | H |
| 4 | * 11.02 | 29.86 | PK | 38.2 | -21.6 | 0 | 46.46 | - | - | 74 | -27.54 | - | - | 0-360 | 150 | H |
| 5 | 16.528 | 26.13 | PK | 40.9 | -19.4 | 0 | 47.63 | - | - | - | - | 68.2 | -20.57 | 0-360 | 150 | H |
| 2 | * 7.347 | 36.4 | PK | 35.8 | -27.4 | 0 | 44.8 | - | - | 74 | -29.2 | - | - | 0-360 | 150 | V |
| 3 | * 11.02 | 30.89 | PK | 38.2 | -21.6 | 0 | 47.49 | - | - | 74 | -26.51 | - | - | 0-360 | 150 | V |
| 6 | 16.531 | 25.48 | PK | 40.9 | -19.4 | 0 | 46.98 | - | - | - | - | 68.2 | -21.22 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.347 | 43.51 | PK-U | 35.8 | -27.4 | 0 | 51.91 | - | - | 74 | -22.09 | - | - | 248 | 273 | H |
| * 7.347 | 36.73 | ADR | 35.8 | -27.4 | 0 | 45.13 | 54 | -8.87 | - | - | - | - | 248 | 273 | H |
| * 7.347 | 43.63 | PK-U | 35.8 | -27.4 | 0 | 52.03 | - | - | 74 | -21.97 | - | - | 191 | 157 | V |
| * 7.347 | 36.89 | ADR | 35.8 | -27.4 | 0 | 45.29 | 54 | -8.71 | - | - | - | - | 191 | 157 | V |
| * 11.02 | 39.88 | PK-U | 38.2 | -21.6 | 0 | 56.48 | - | - | 74 | -17.52 | - | - | 200 | 133 | V |
| * 11.02 | 29.75 | ADR | 38.2 | -21.6 | 0 | 46.35 | 54 | -7.65 | - | - | - | - | 200 | 133 | V |
| * 11.02 | 41.55 | PK-U | 38.2 | -21.6 | 0 | 58.15 | - | - | 74 | -15.85 | - | - | 221 | 171 | H |
| * 11.02 | 31.93 | ADR | 38.2 | -21.6 | 0 | 48.53 | 54 | -5.47 | - | - | - | - | 221 | 171 | 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


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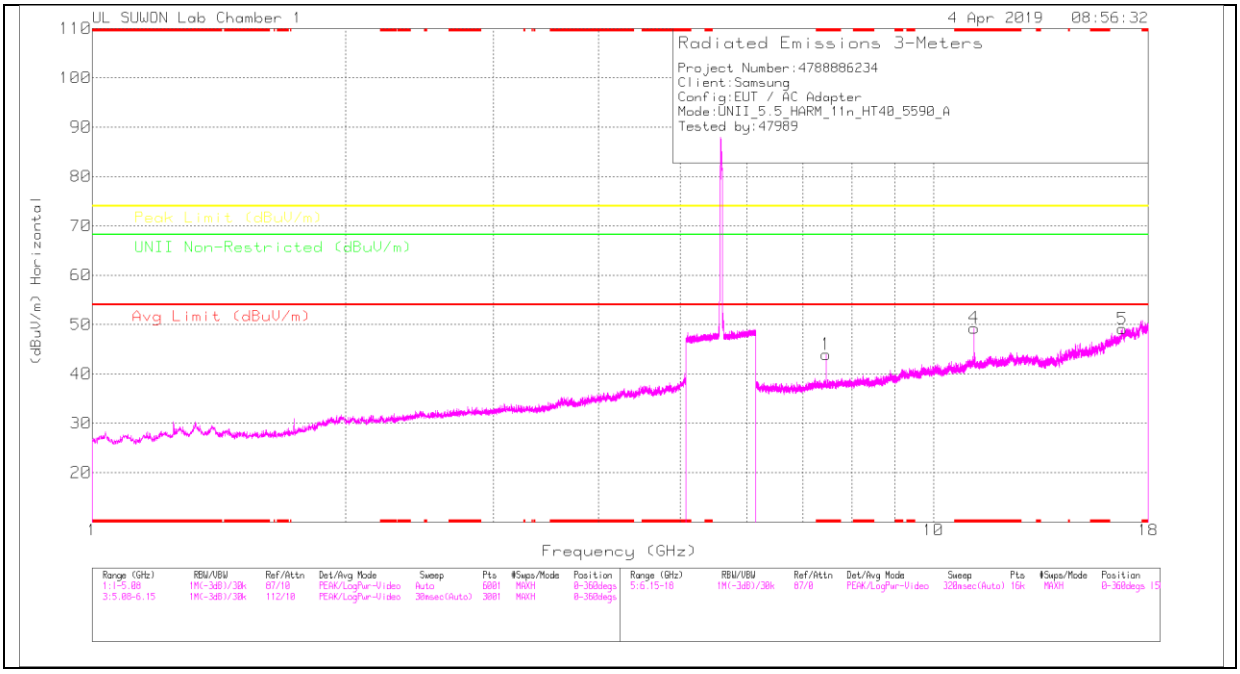
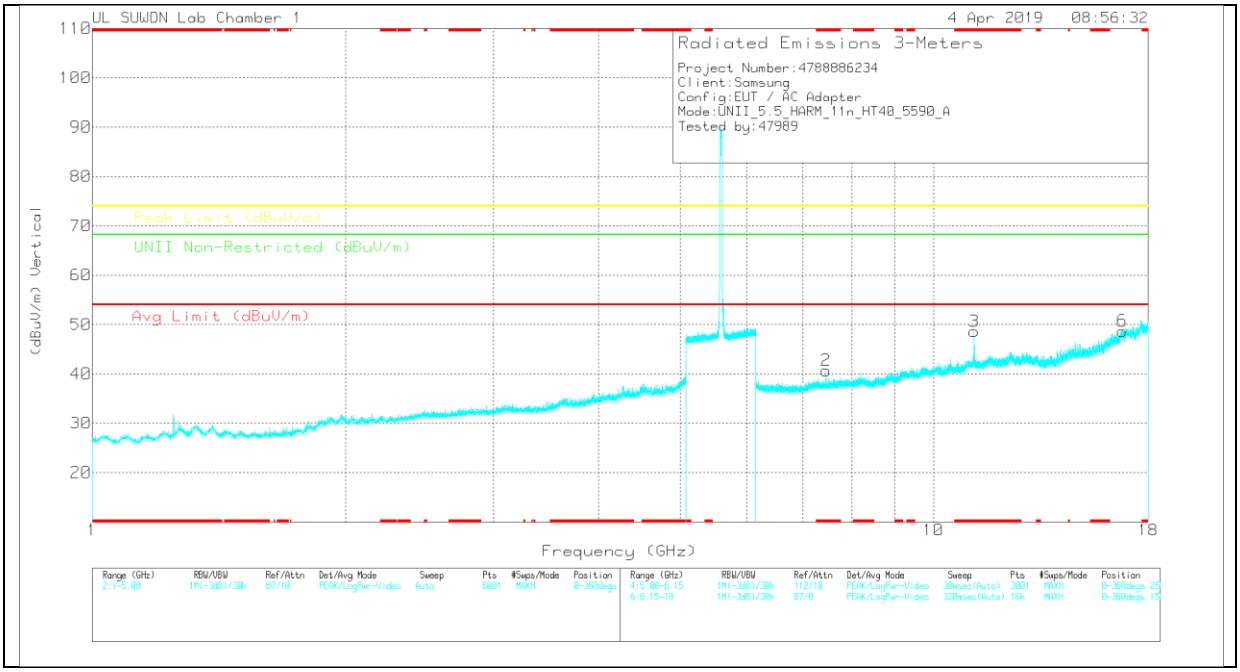
**MID CHANNEL HORIZONTAL**




**MID CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## MID CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.453 | 35.47 | PK | 35.8 | -27.3 | 0 | 43.97 | - | - | 74 | -30.03 | - | - | 0-360 | 150 | H |
| 4 | * 11.18 | 33.42 | PK | 38.3 | -22.4 | 0 | 49.32 | - | - | 74 | -24.68 | - | - | 0-360 | 150 | H |
| 5 | 16.774 | 25.04 | PK | 41.4 | -17.3 | 0 | 49.14 | - | - | - | - | 68.2 | -19.06 | 0-360 | 150 | H |
| 2 | * 7.453 | 32.19 | PK | 35.8 | -27.3 | 0 | 40.69 | - | - | 74 | -33.31 | - | - | 0-360 | 150 | V |
| 3 | * 11.18 | 32.72 | PK | 38.3 | -22.4 | 0 | 48.62 | - | - | 74 | -25.38 | - | - | 0-360 | 150 | V |
| 6 | 16.772 | 24.57 | PK | 41.4 | -17.3 | 0 | 48.67 | - | - | - | - | 68.2 | -19.53 | 0-360 | 150 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.453 | 43.15 | PK-U | 35.8 | -27.3 | 0 | 51.65 | - | - | 74 | -22.35 | - | - | 248 | 182 | H |
| * 7.453 | 36.1 | ADR | 35.8 | -27.3 | 0 | 44.6 | 54 | -9.4 | - | - | - | - | 248 | 182 | H |
| * 7.453 | 42.4 | PK-U | 35.8 | -27.3 | 0 | 50.9 | - | - | 74 | -23.1 | - | - | 193 | 394 | V |
| * 7.453 | 33.59 | ADR | 35.8 | -27.3 | 0 | 42.09 | 54 | -11.91 | - | - | - | - | 193 | 394 | V |
| * 11.18 | 40.3 | PK-U | 38.3 | -22.4 | 0 | 56.2 | - | - | 74 | -17.8 | - | - | 204 | 160 | V |
| * 11.18 | 30.54 | ADR | 38.3 | -22.4 | 0 | 46.44 | 54 | -7.56 | - | - | - | - | 204 | 160 | V |
| * 11.18 | 41.91 | PK-U | 38.3 | -22.4 | 0 | 57.81 | - | - | 74 | -16.19 | - | - | 222 | 169 | H |
| * 11.18 | 33.57 | ADR | 38.3 | -22.4 | 0 | 49.47 | 54 | -4.53 | - | - | - | - | 222 | 169 | 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


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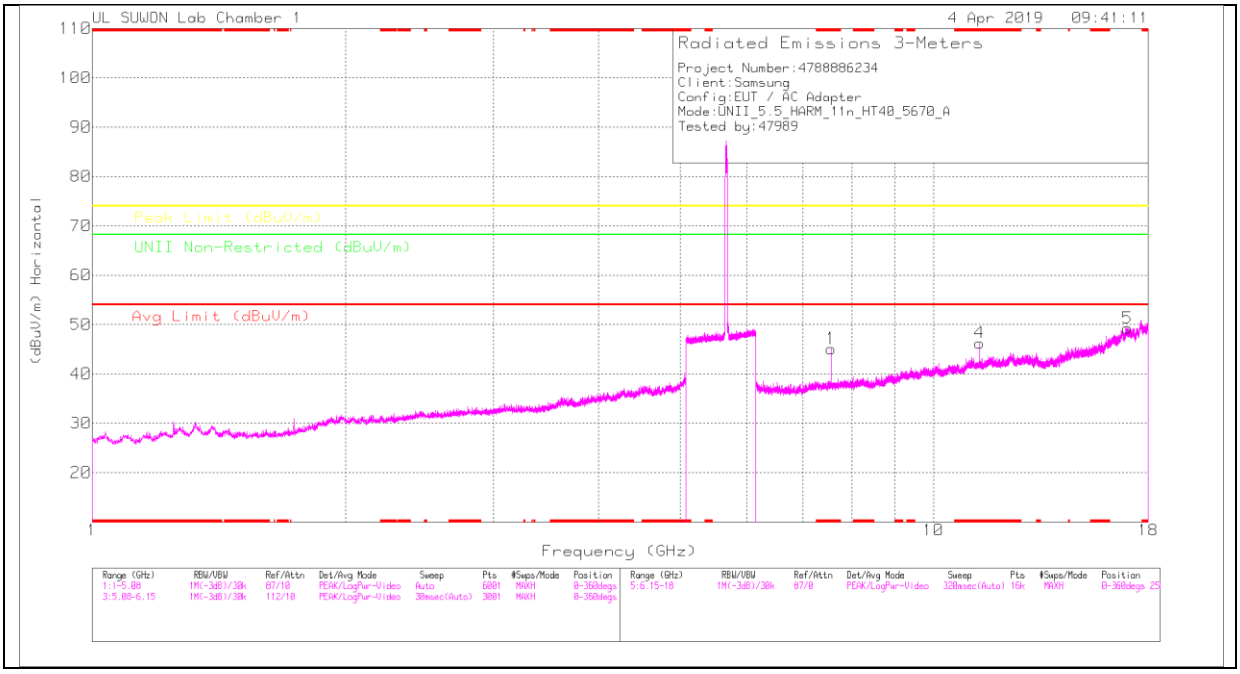
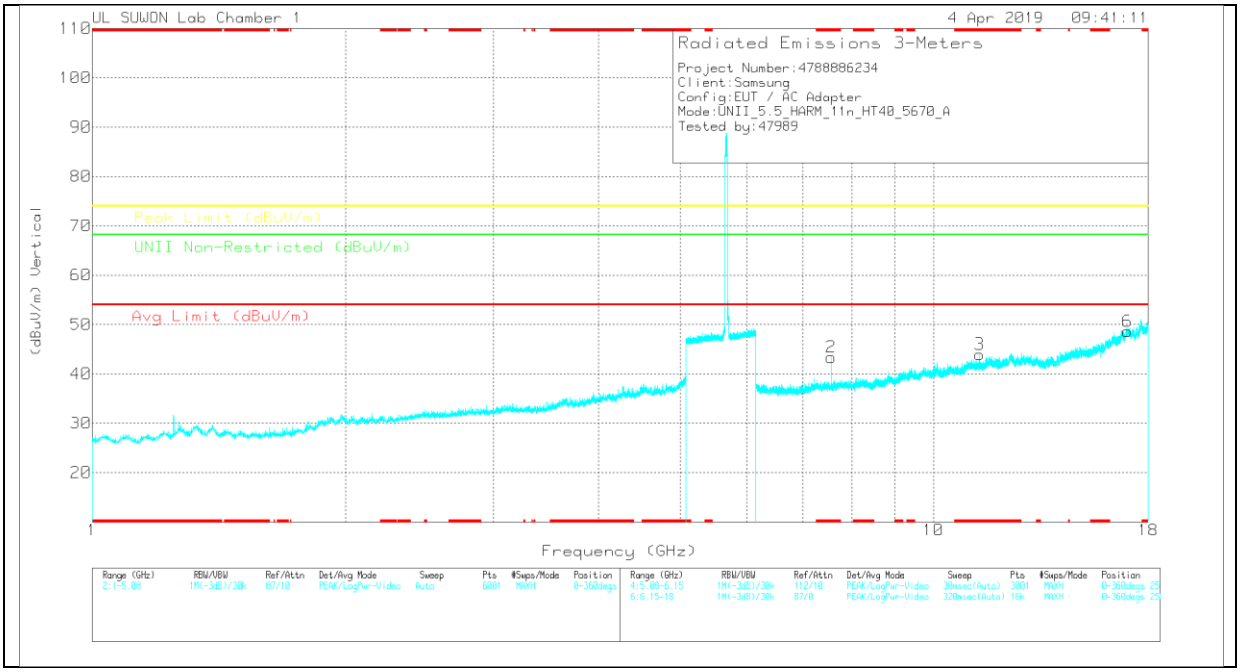
**HIGH CHANNEL HORIZONTAL**




**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.559 | 35.8 | PK | 35.8 | -26.5 | 0 | 45.1 | - | - | 74 | -28.9 | - | - | 0-360 | 250 | H |
| 4 | * 11.34 | 30.07 | PK | 38.4 | -22.2 | 0 | 46.27 | - | - | 74 | -27.73 | - | - | 0-360 | 150 | H |
| 5 | 17.005 | 24.97 | PK | 41.7 | -17.4 | 0 | 49.27 | - | - | - | - | 68.2 | -18.93 | 0-360 | 250 | H |
| 2 | * 7.559 | 34.06 | PK | 35.8 | -26.5 | 0 | 43.36 | - | - | 74 | -30.64 | - | - | 0-360 | 250 | V |
| 3 | * 11.34 | 27.74 | PK | 38.4 | -22.2 | 0 | 43.94 | - | - | 74 | -30.06 | - | - | 0-360 | 250 | V |
| 6 | 17.013 | 24.2 | PK | 41.7 | -17.3 | 0 | 48.6 | - | - | - | - | 68.2 | -19.6 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.56 | 42.36 | PK-U | 35.8 | -26.5 | 0 | 51.66 | - | - | 74 | -22.34 | - | - | 207 | 376 | H |
| * 7.56 | 35.29 | ADR | 35.8 | -26.5 | 0 | 44.59 | 54 | -9.41 | - | - | - | - | 207 | 376 | H |
| * 7.56 | 41.92 | PK-U | 35.8 | -26.5 | 0 | 51.22 | - | - | 74 | -22.78 | - | - | 202 | 398 | V |
| * 7.56 | 34.43 | ADR | 35.8 | -26.5 | 0 | 43.73 | 54 | -10.27 | - | - | - | - | 202 | 398 | V |
| * 11.34 | 40.49 | PK-U | 38.4 | -22.2 | 0 | 56.69 | - | - | 74 | -17.31 | - | - | 184 | 165 | V |
| * 11.34 | 30.3 | ADR | 38.4 | -22.2 | 0 | 46.5 | 54 | -7.5 | - | - | - | - | 184 | 165 | V |
| * 11.34 | 41.47 | PK-U | 38.4 | -22.2 | 0 | 57.67 | - | - | 74 | -16.33 | - | - | 223 | 165 | H |
| * 11.34 | 32.01 | ADR | 38.4 | -22.2 | 0 | 48.21 | 54 | -5.79 | - | - | - | - | 223 | 165 | 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


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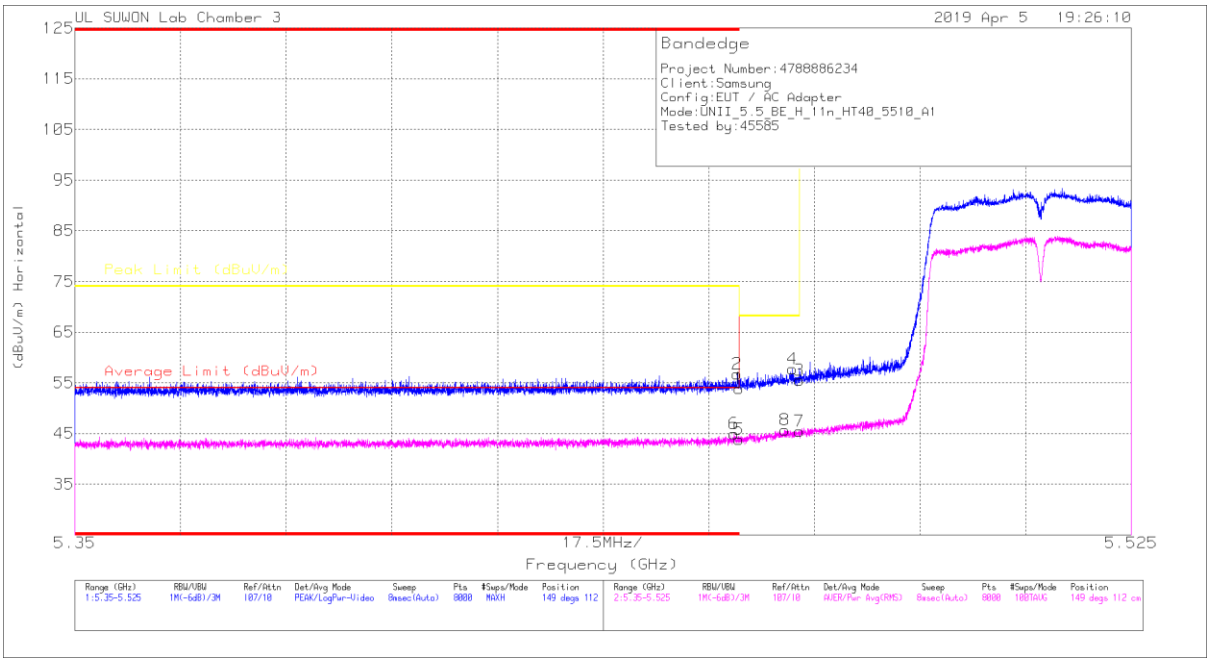
# 11.3.8.TX ABOVE 1GHz 802.11n HT40 1Tx ANT1 IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

## HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 37.58 | Pk | 34.7 | -18.4 | 0 | 53.88 | - | - | 74 | -20.12 | 149 | 112 | H |
| 2 | * 5.46 | 40.45 | Pk | 34.7 | -18.4 | 0 | 56.75 | - | - | 74 | -17.25 | 149 | 112 | H |
| 3 | 5.47 | 39.28 | Pk | 34.7 | -18.5 | 0 | 55.48 | - | - | 68.2 | -12.72 | 149 | 112 | H |
| 4 | 5.469 | 41.52 | Pk | 34.7 | -18.5 | 0 | 57.72 | - | - | 68.2 | -10.48 | 149 | 112 | H |
| 5 | * 5.46 | 28.14 | RMS | 34.7 | -19 | 0 | 43.84 | 54 | -10.16 | - | - | 149 | 112 | H |
| 6 | * 5.459 | 29.24 | RMS | 34.7 | -19 | 0 | 44.94 | 54 | -9.06 | - | - | 149 | 112 | H |
| 7 | 5.47 | 29.68 | RMS | 34.7 | -18.9 | 0 | 45.48 | - | - | - | - | 149 | 112 | H |
| 8 | 5.468 | 29.92 | RMS | 34.7 | -18.9 | 0 | 45.72 | - | - | - | - | 149 | 112 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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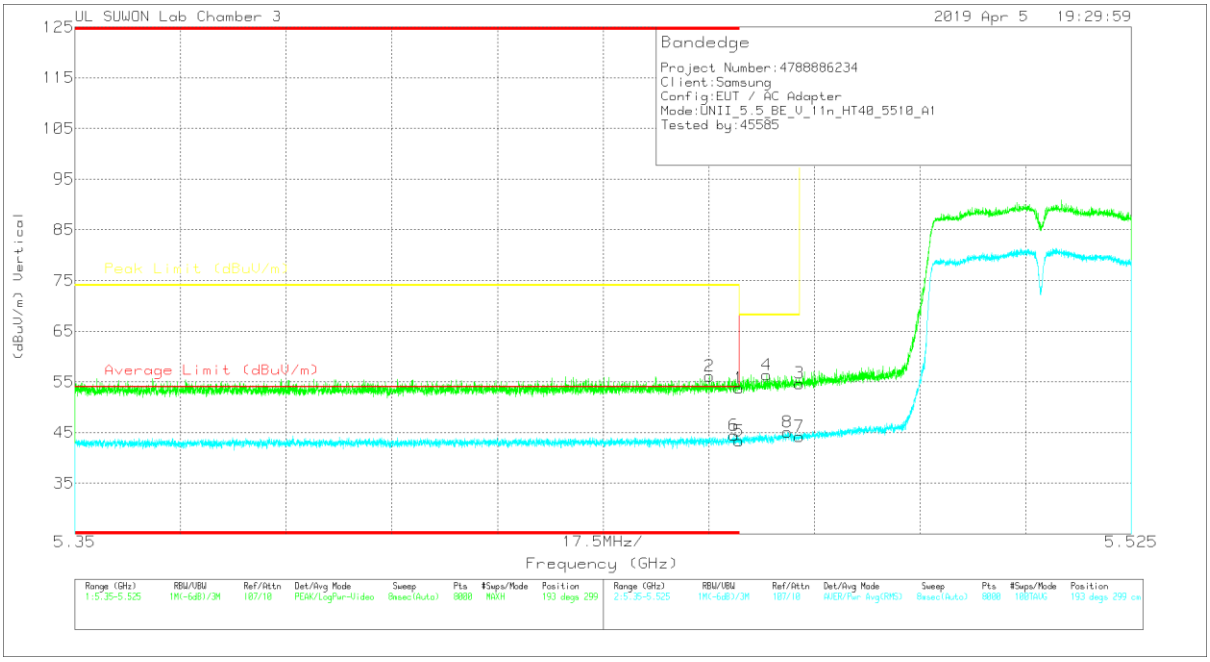
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 37.47 | Pk | 34.7 | -18.4 | 0 | 53.77 | - | - | 74 | -20.23 | 193 | 299 | V |
| 2 | * 5.455 | 39.81 | Pk | 34.7 | -18.4 | 0 | 56.11 | - | - | 74 | -17.89 | 193 | 299 | V |
| 3 | 5.47 | 38.5 | Pk | 34.7 | -18.5 | 0 | 54.7 | - | - | 68.2 | -13.5 | 193 | 299 | V |
| 4 | 5.465 | 40.22 | Pk | 34.7 | -18.5 | 0 | 56.42 | - | - | 68.2 | -11.78 | 193 | 299 | V |
| 5 | * 5.46 | 27.6 | RMS | 34.7 | -19 | 0 | 43.3 | 54 | -10.7 | - | - | 193 | 299 | V |
| 6 | * 5.459 | 28.79 | RMS | 34.7 | -19 | 0 | 44.49 | 54 | -9.51 | - | - | 193 | 299 | V |
| 7 | 5.47 | 28.45 | RMS | 34.7 | -18.9 | 0 | 44.25 | - | - | - | - | 193 | 299 | V |
| 8 | 5.468 | 29.3 | RMS | 34.7 | -18.9 | 0 | 45.1 | - | - | - | - | 193 | 299 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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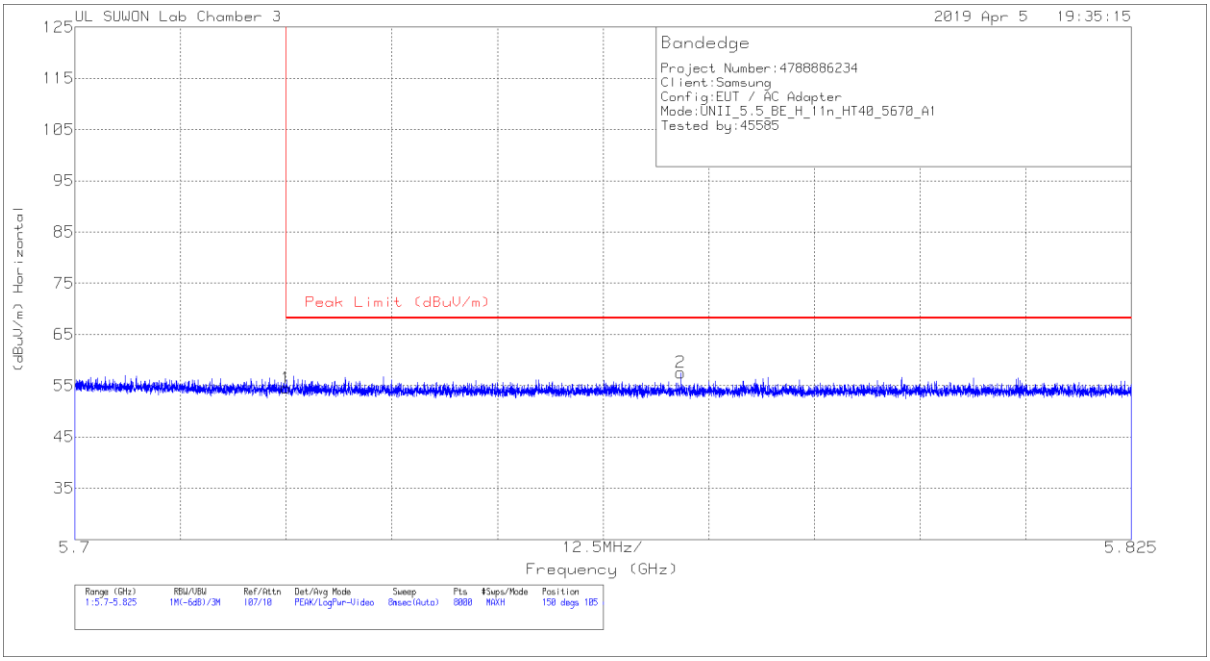
# AUTHORIZED BANDEDGE (HIGH CHANNEL)

## HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 37.65 | Pk | 34.8 | -17.9 | 0 | 54.55 | 68.2 | -13.65 | 150 | 105 | H |
| 2 | 5.772 | 40.45 | Pk | 34.9 | -17.8 | 0 | 57.55 | 68.2 | -10.65 | 150 | 105 | H |

Pk - Peak detector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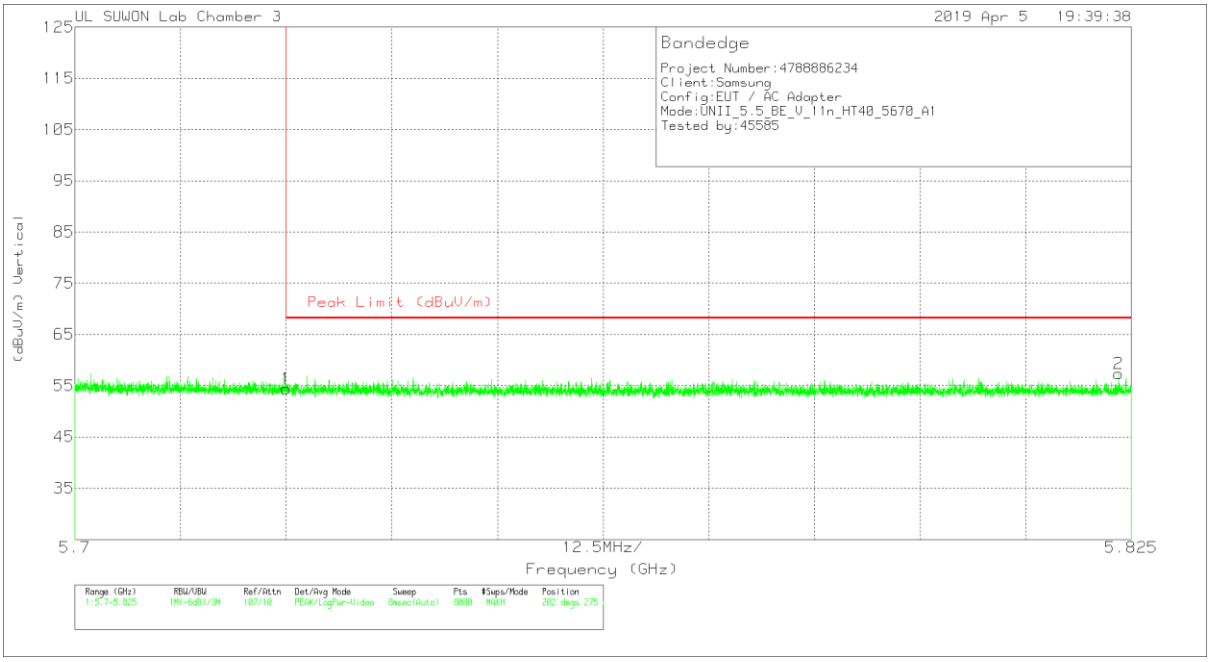
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 37.48 | Pk | 34.8 | -17.9 | 0 | 54.38 | 68.2 | -13.82 | 202 | 275 | V |
| 2 | 5.824 | 40.13 | Pk | 34.9 | -17.7 | 0 | 57.33 | 68.2 | -10.87 | 202 | 275 | V |

Pk - Peak detector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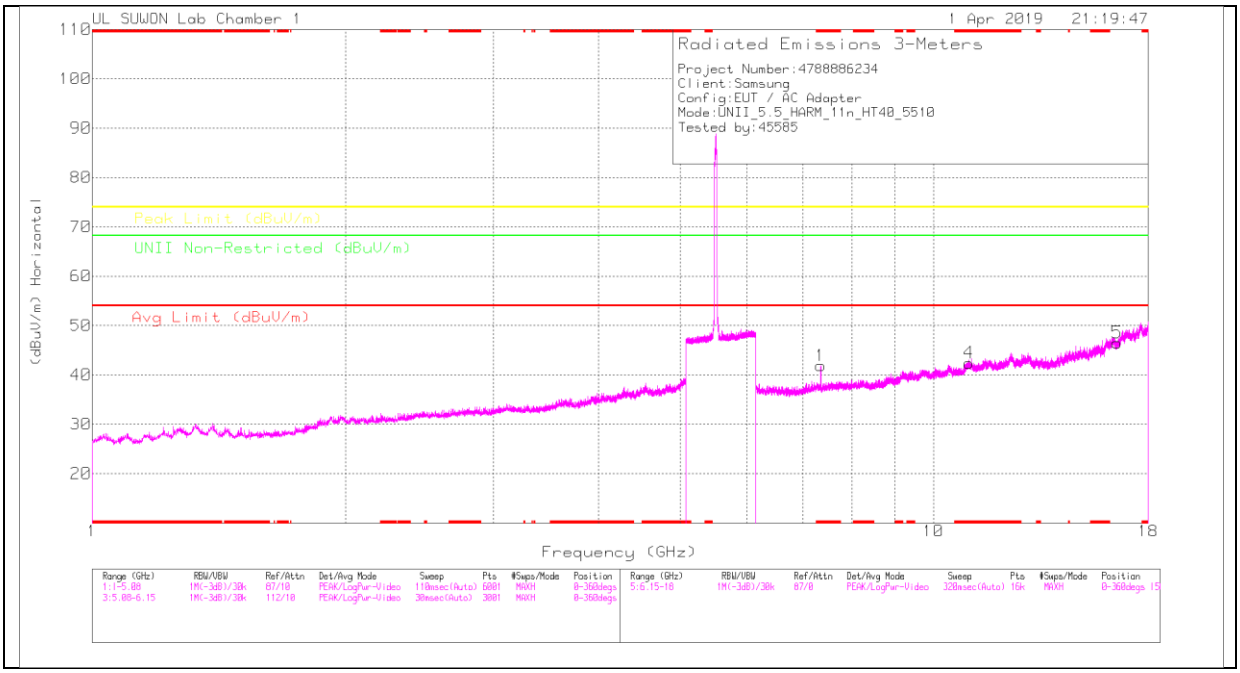
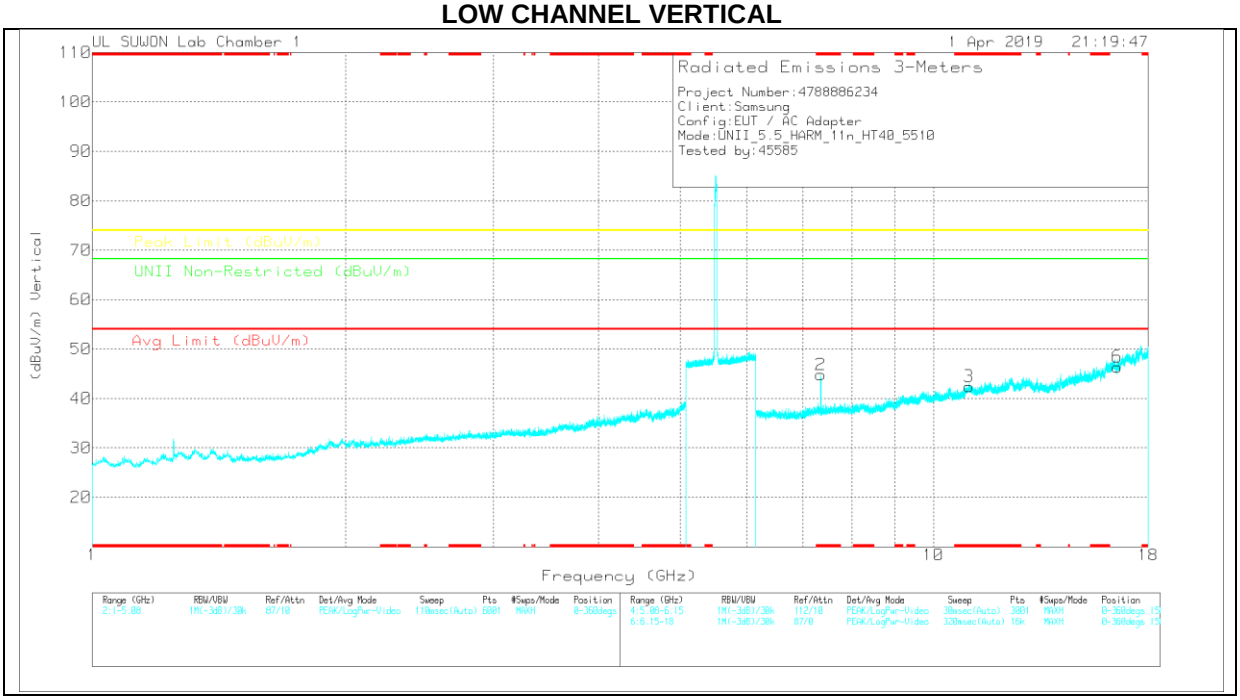
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




## LOW CHANNEL VERTICAL




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## LOW CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.347 | 33.46 | PK | 35.8 | -27.4 | 0 | 41.86 | - | - | 74 | -32.14 | - | - | 0-360 | 150 | H |
| 4 | * 11.019 | 25.84 | PK | 38.2 | -21.6 | 0 | 42.44 | - | - | 74 | -31.56 | - | - | 0-360 | 150 | H |
| 5 | 16.53 | 25.01 | PK | 40.9 | -19.4 | 0 | 46.51 | - | - | - | - | 68.2 | -21.69 | 0-360 | 150 | H |
| 2 | * 7.346 | 36.4 | PK | 35.8 | -27.4 | 0 | 44.8 | - | - | 74 | -29.2 | - | - | 0-360 | 150 | V |
| 3 | * 11.02 | 25.81 | PK | 38.2 | -21.6 | 0 | 42.41 | - | - | 74 | -31.59 | - | - | 0-360 | 150 | V |
| 6 | 16.531 | 24.88 | PK | 40.9 | -19.4 | 0 | 46.38 | - | - | - | - | 68.2 | -21.82 | 0-360 | 150 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.347 | 41.83 | PK-U | 35.8 | -27.4 | 0 | 50.23 | - | - | 74 | -23.77 | - | - | 107 | 109 | H |
| * 7.347 | 33.39 | ADR | 35.8 | -27.4 | 0 | 41.79 | 54 | -12.21 | - | - | - | - | 107 | 109 | H |
| * 7.347 | 43.25 | PK-U | 35.8 | -27.4 | 0 | 51.65 | - | - | 74 | -22.35 | - | - | 286 | 100 | V |
| * 7.347 | 36.59 | ADR | 35.8 | -27.4 | 0 | 44.99 | 54 | -9.01 | - | - | - | - | 286 | 100 | 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


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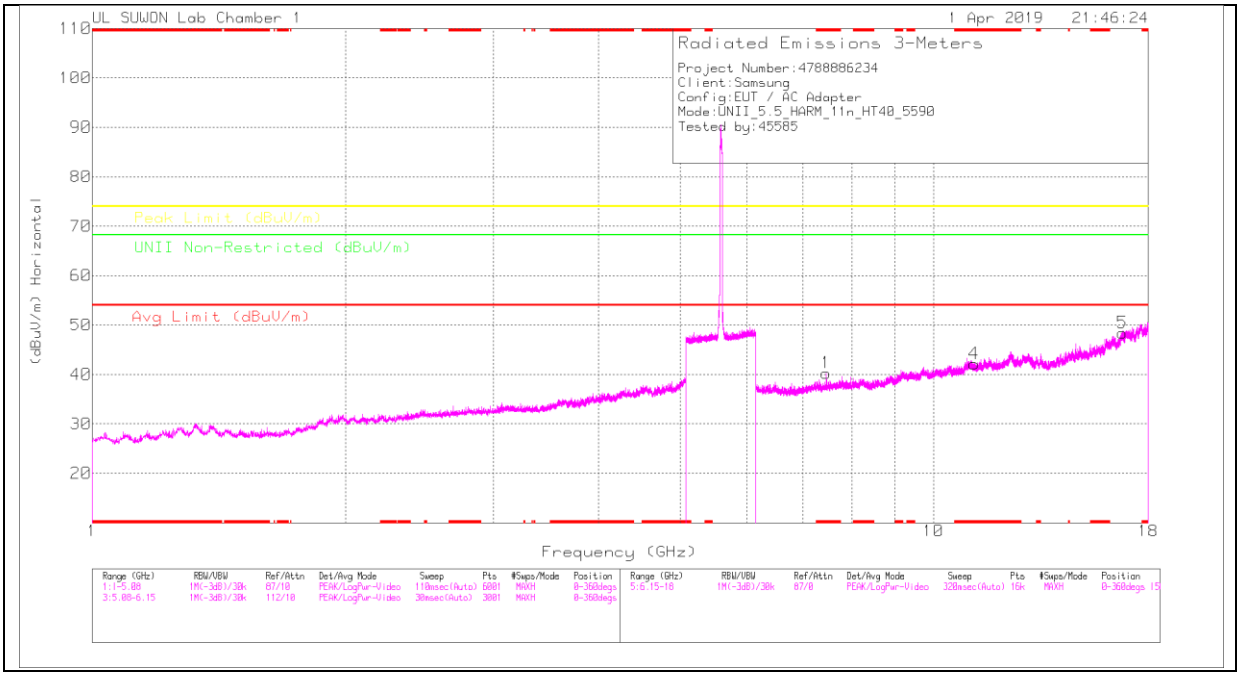
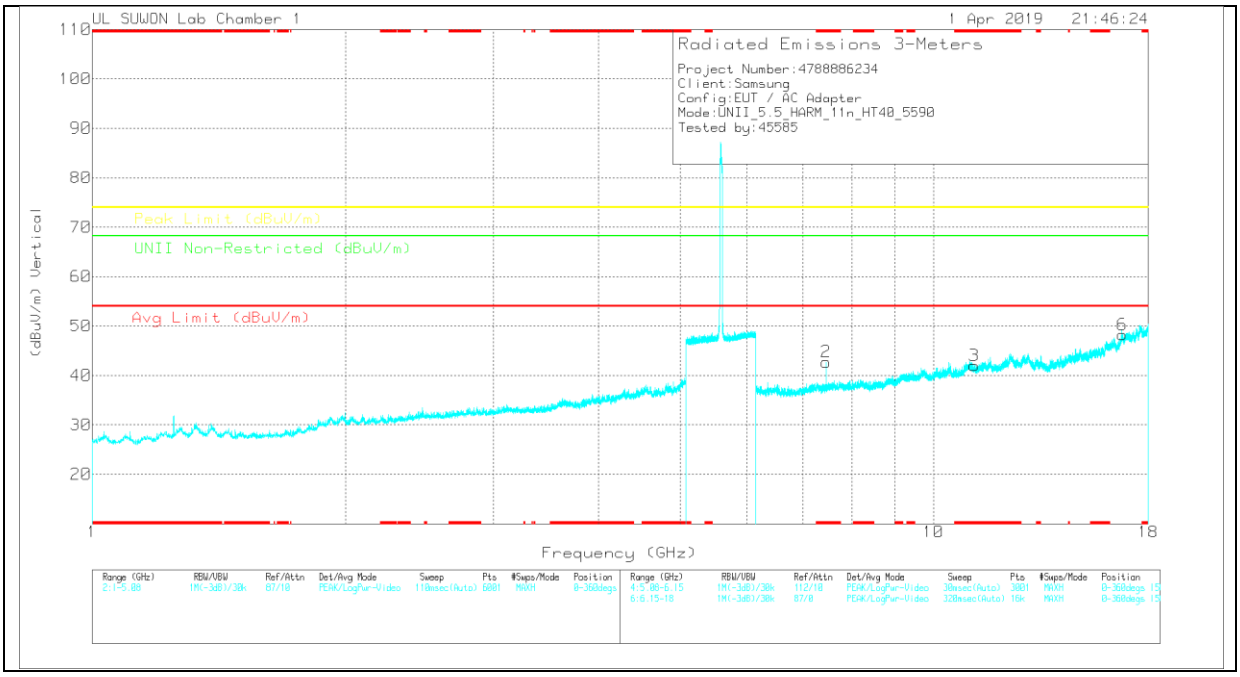
**MID CHANNEL HORIZONTAL**




**MID CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## MID CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.453 | 31.79 | PK | 35.8 | -27.3 | 0 | 40.29 | - | - | 74 | -33.71 | - | - | 0-360 | 150 | H |
| 4 | * 11.18 | 26.27 | PK | 38.3 | -22.4 | 0 | 42.17 | - | - | 74 | -31.83 | - | - | 0-360 | 250 | H |
| 5 | 16.766 | 24.23 | PK | 41.4 | -17.2 | 0 | 48.43 | - | - | - | - | 68.2 | -19.77 | 0-360 | 250 | H |
| 2 | * 7.453 | 34.22 | PK | 35.8 | -27.3 | 0 | 42.72 | - | - | 74 | -31.28 | - | - | 0-360 | 250 | V |
| 3 | * 11.18 | 26.1 | PK | 38.3 | -22.4 | 0 | 42 | - | - | 74 | -32 | - | - | 0-360 | 150 | V |
| 6 | 16.774 | 24.16 | PK | 41.4 | -17.3 | 0 | 48.26 | - | - | - | - | 68.2 | -19.94 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.453 | 39.99 | PK-U | 35.8 | -27.3 | 0 | 48.49 | - | - | 74 | -25.51 | - | - | 107 | 109 | H |
| * 7.453 | 28.77 | ADR | 35.8 | -27.3 | 0 | 37.27 | 54 | -16.73 | - | - | - | - | 107 | 109 | H |
| * 7.453 | 43 | PK-U | 35.8 | -27.3 | 0 | 51.5 | - | - | 74 | -22.5 | - | - | 286 | 100 | V |
| * 7.453 | 35.51 | ADR | 35.8 | -27.3 | 0 | 44.01 | 54 | -9.99 | - | - | - | - | 286 | 100 | 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


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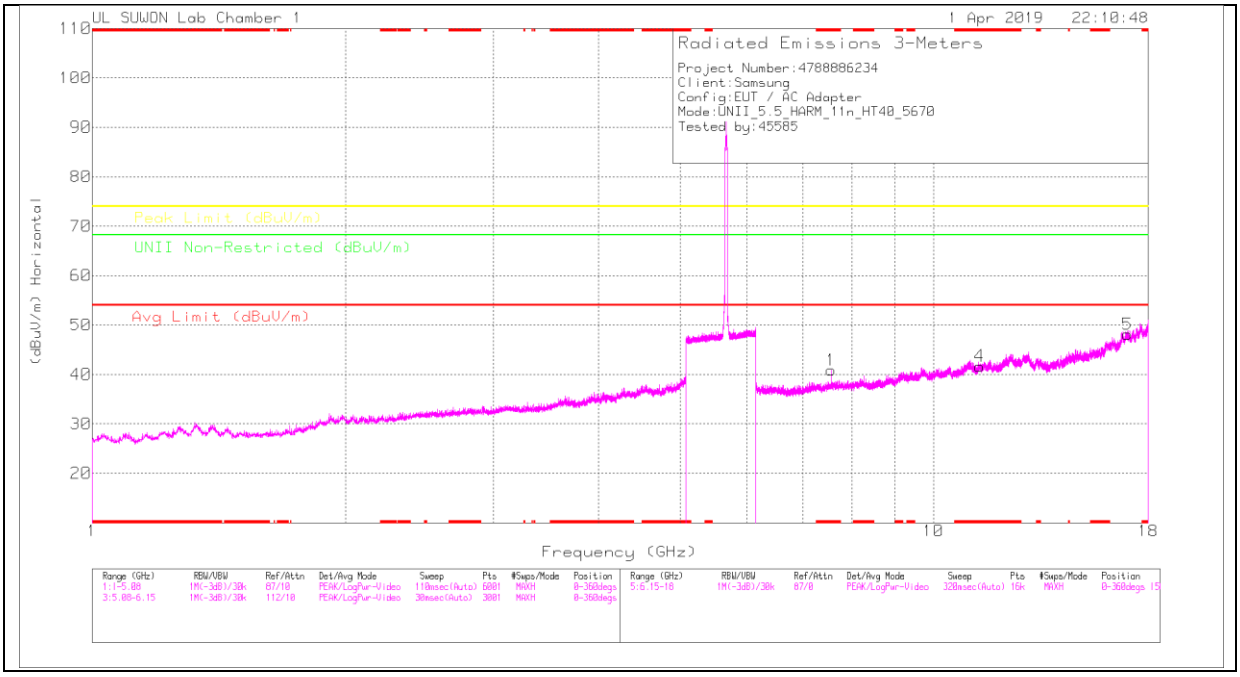
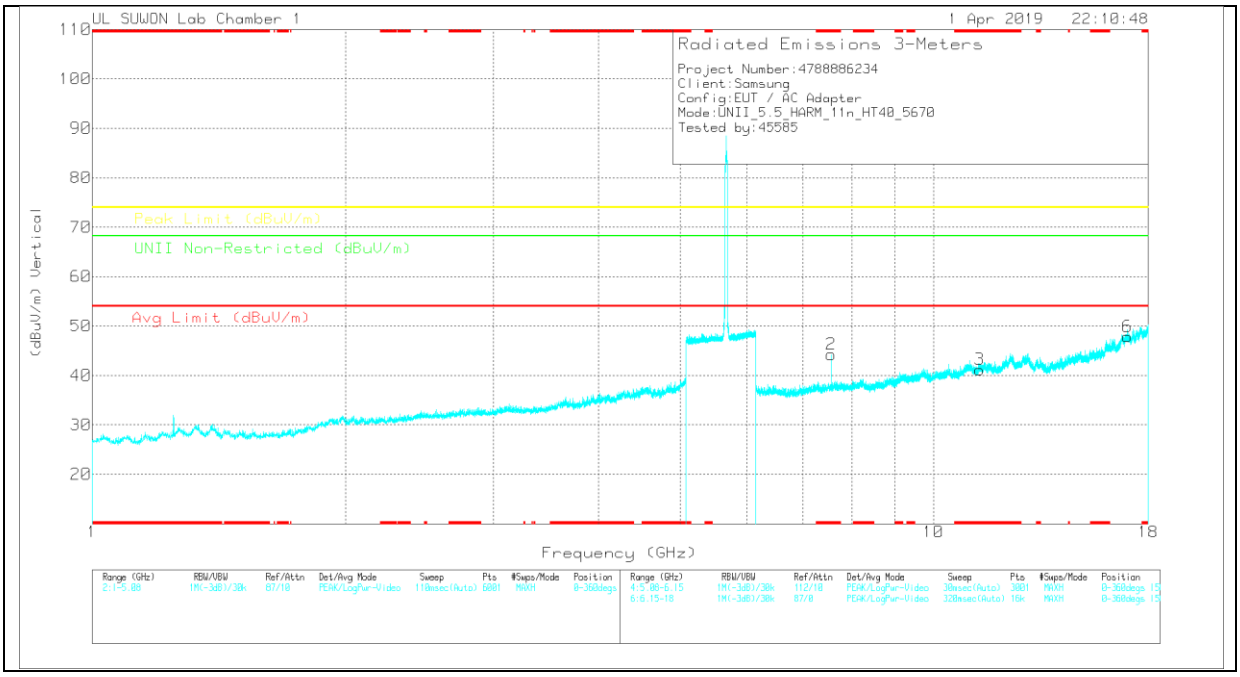
**HIGH CHANNEL HORIZONTAL**




**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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**HIGH CHANNEL DATA**

## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.559 | 31.58 | PK | 35.8 | -26.5 | 0 | 40.88 | - | - | 74 | -33.12 | - | - | 0-360 | 250 | H |
| 4 | * 11.341 | 25.46 | PK | 38.4 | -22.2 | 0 | 41.66 | - | - | 74 | -32.34 | - | - | 0-360 | 250 | H |
| 5 | 17.01 | 23.8 | PK | 41.7 | -17.4 | 0 | 48.1 | - | - | - | - | 68.2 | -20.1 | 0-360 | 150 | H |
| 2 | * 7.559 | 34.95 | PK | 35.8 | -26.5 | 0 | 44.25 | - | - | 74 | -29.75 | - | - | 0-360 | 150 | V |
| 3 | * 11.341 | 24.99 | PK | 38.4 | -22.2 | 0 | 41.19 | - | - | 74 | -32.81 | - | - | 0-360 | 150 | V |
| 6 | 17.01 | 23.56 | PK | 41.7 | -17.4 | 0 | 47.86 | - | - | - | - | 68.2 | -20.34 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

## Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.56 | 41.12 | PK-U | 35.8 | -26.5 | 0 | 50.42 | - | - | 74 | -23.58 | - | - | 148 | 108 | H |
| * 7.56 | 32.17 | ADR | 35.8 | -26.5 | 0 | 41.47 | 54 | -12.53 | - | - | - | - | 148 | 108 | H |
| * 7.56 | 43.4 | PK-U | 35.8 | -26.5 | 0 | 52.7 | - | - | 74 | -21.3 | - | - | 282 | 100 | V |
| * 7.56 | 36.51 | ADR | 35.8 | -26.5 | 0 | 45.81 | 54 | -8.19 | - | - | - | - | 282 | 100 | 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


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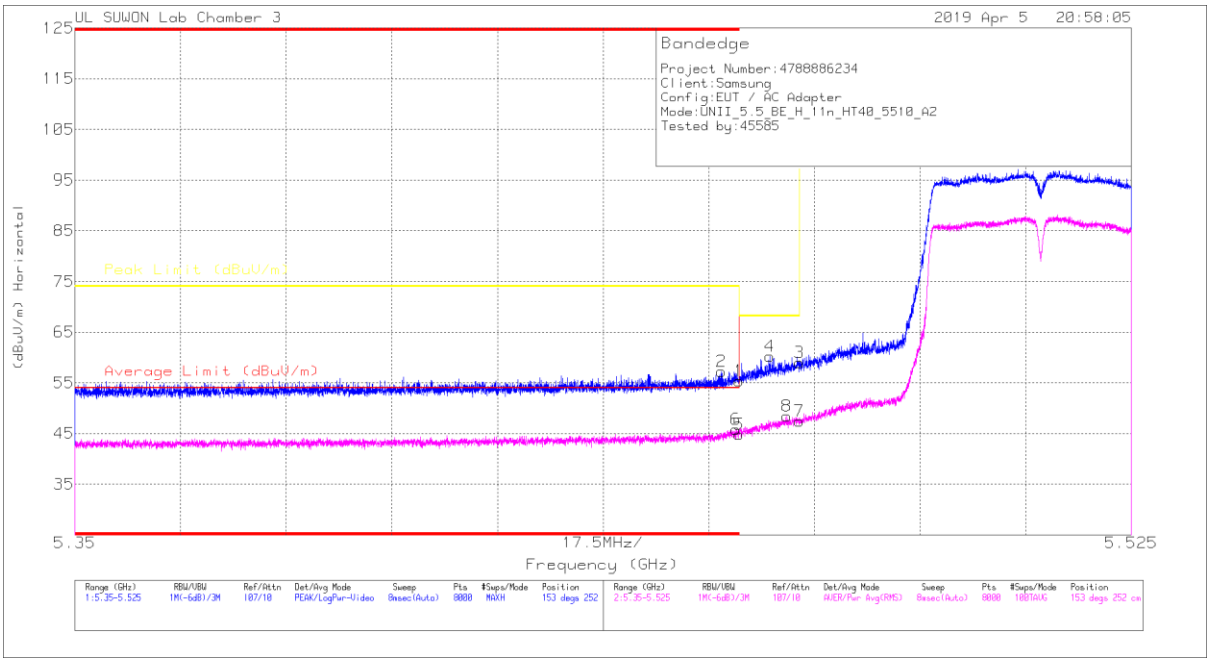
## 11.3.9. TX ABOVE 1GHz 802.11n HT40 1Tx ANT2 IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

### HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 39.03 | Pk | 34.7 | -18.4 | 0 | 55.33 | - | - | 74 | -18.67 | 153 | 252 | H |
| 2 | * 5.457 | 41.03 | Pk | 34.7 | -18.5 | 0 | 57.23 | - | - | 74 | -16.77 | 153 | 252 | H |
| 3 | 5.47 | 42.83 | Pk | 34.7 | -18.5 | 0 | 59.03 | - | - | 68.2 | -9.17 | 153 | 252 | H |
| 4 | 5.465 | 43.89 | Pk | 34.7 | -18.4 | 0 | 60.19 | - | - | 68.2 | -8.01 | 153 | 252 | H |
| 5 | * 5.46 | 29.1 | RMS | 34.7 | -19 | 0 | 44.8 | 54 | -9.2 | - | - | 153 | 252 | H |
| 6 | * 5.459 | 30.11 | RMS | 34.7 | -19 | 0 | 45.81 | 54 | -8.19 | - | - | 153 | 252 | H |
| 7 | 5.47 | 31.63 | RMS | 34.7 | -18.9 | 0 | 47.43 | - | - | - | - | 153 | 252 | H |
| 8 | 5.468 | 32.59 | RMS | 34.7 | -18.9 | 0 | 48.39 | - | - | - | - | 153 | 252 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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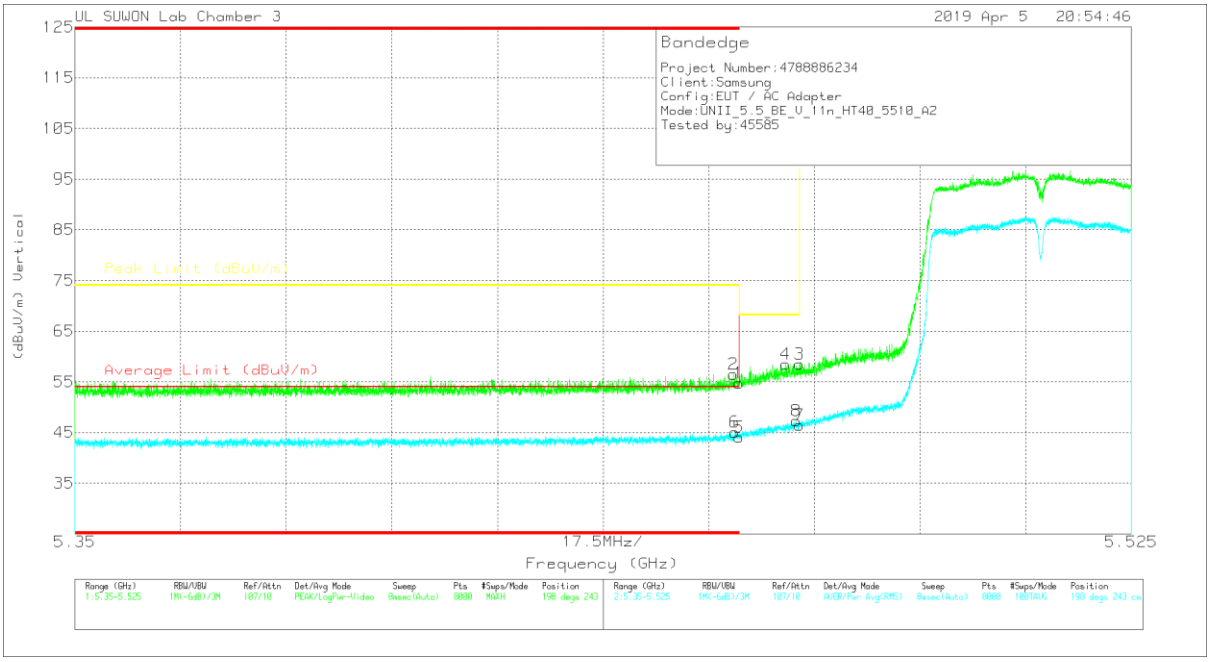
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 38.49 | Pk | 34.7 | -18.4 | 0 | 54.79 | - | - | 74 | -19.21 | 198 | 243 | V |
| 2 | * 5.459 | 40.32 | Pk | 34.7 | -18.5 | 0 | 56.52 | - | - | 74 | -17.48 | 198 | 243 | V |
| 3 | 5.47 | 42.29 | Pk | 34.7 | -18.5 | 0 | 58.49 | - | - | 68.2 | -9.71 | 198 | 243 | V |
| 4 | 5.468 | 42.32 | Pk | 34.7 | -18.5 | 0 | 58.52 | - | - | 68.2 | -9.68 | 198 | 243 | V |
| 5 | * 5.46 | 28.43 | RMS | 34.7 | -19 | 0 | 44.13 | 54 | -9.87 | - | - | 198 | 243 | V |
| 6 | * 5.459 | 29.39 | RMS | 34.7 | -19 | 0 | 45.09 | 54 | -8.91 | - | - | 198 | 243 | V |
| 7 | 5.47 | 30.66 | RMS | 34.7 | -18.9 | 0 | 46.46 | - | - | - | - | 198 | 243 | V |
| 8 | 5.47 | 31.46 | RMS | 34.7 | -18.9 | 0 | 47.26 | - | - | - | - | 198 | 243 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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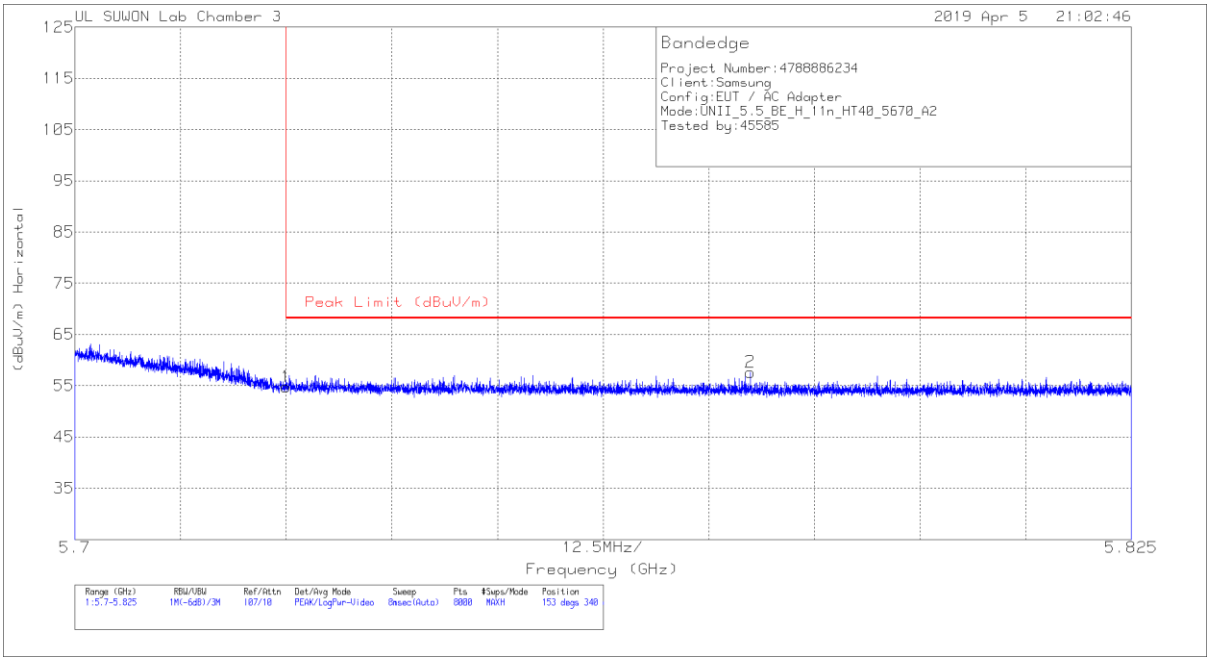
# AUTHORIZED BANDEDGE (HIGH CHANNEL)

## HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 37.91 | Pk | 34.8 | -17.9 | 0 | 54.81 | 68.2 | -13.39 | 153 | 340 | H |
| 2 | 5.78 | 40.57 | Pk | 34.9 | -17.8 | 0 | 57.67 | 68.2 | -10.53 | 153 | 340 | H |

Pk - Peak detector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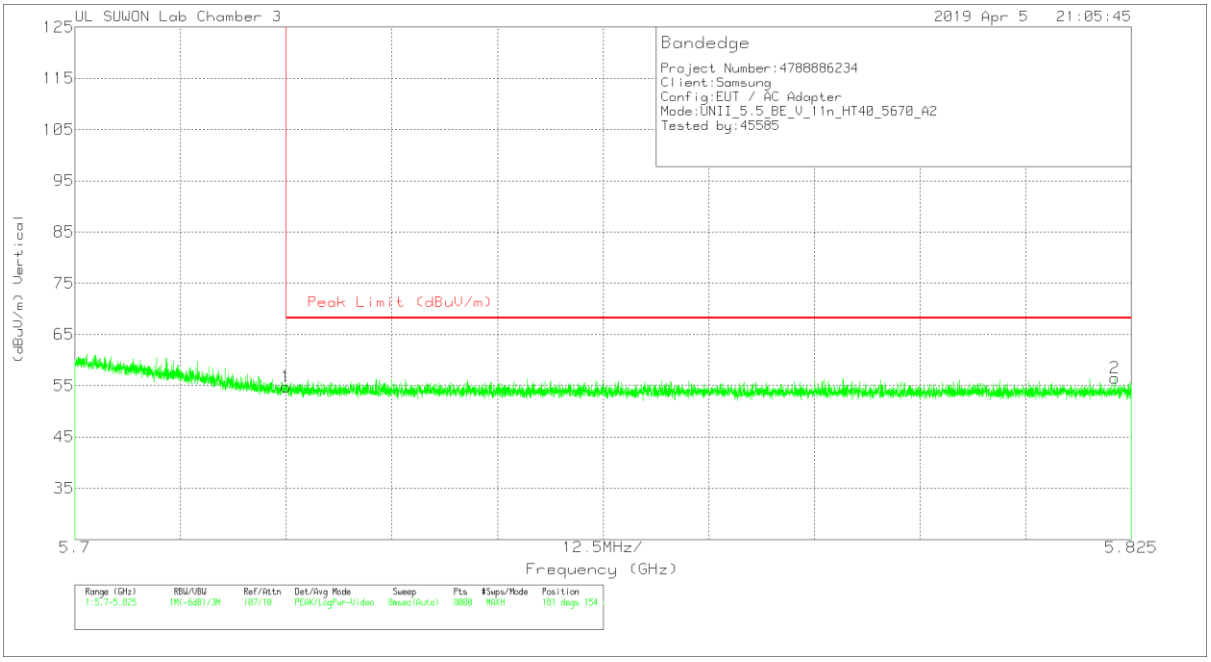
## VERTICAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 37.92 | Pk | 34.8 | -17.9 | 0 | 54.82 | 68.2 | -13.38 | 181 | 154 | V |
| 2 | 5.823 | 39.3 | Pk | 34.9 | -17.7 | 0 | 56.5 | 68.2 | -11.7 | 181 | 154 | V |

Pk - Peak detector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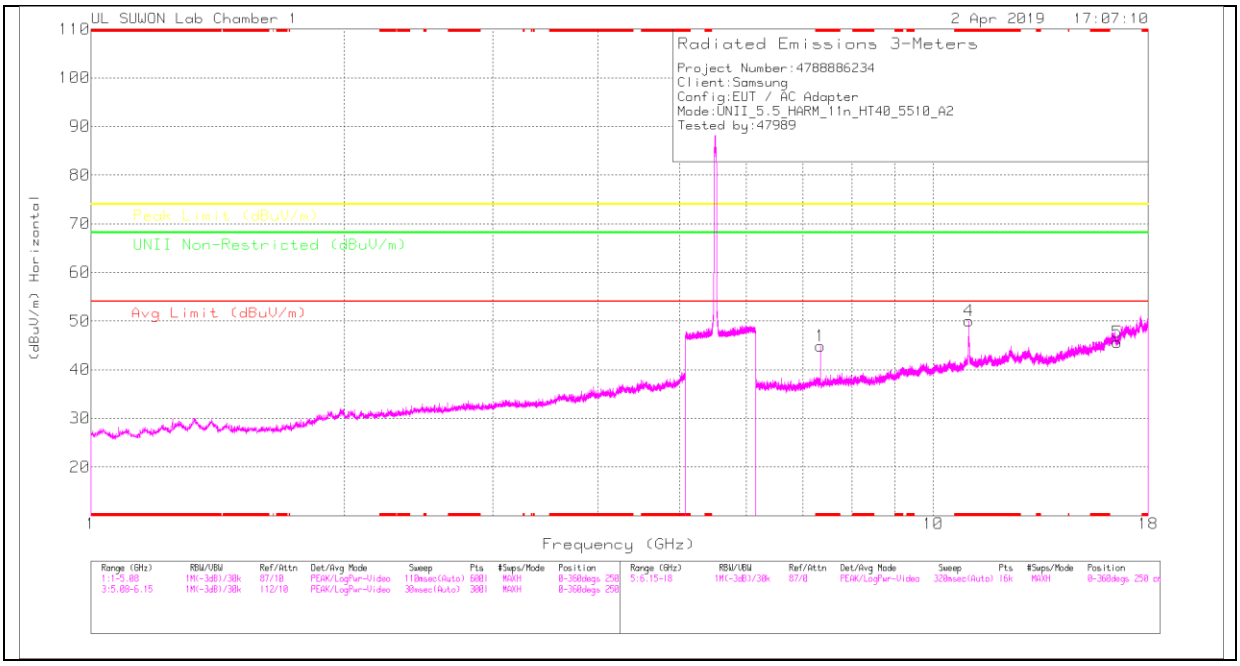
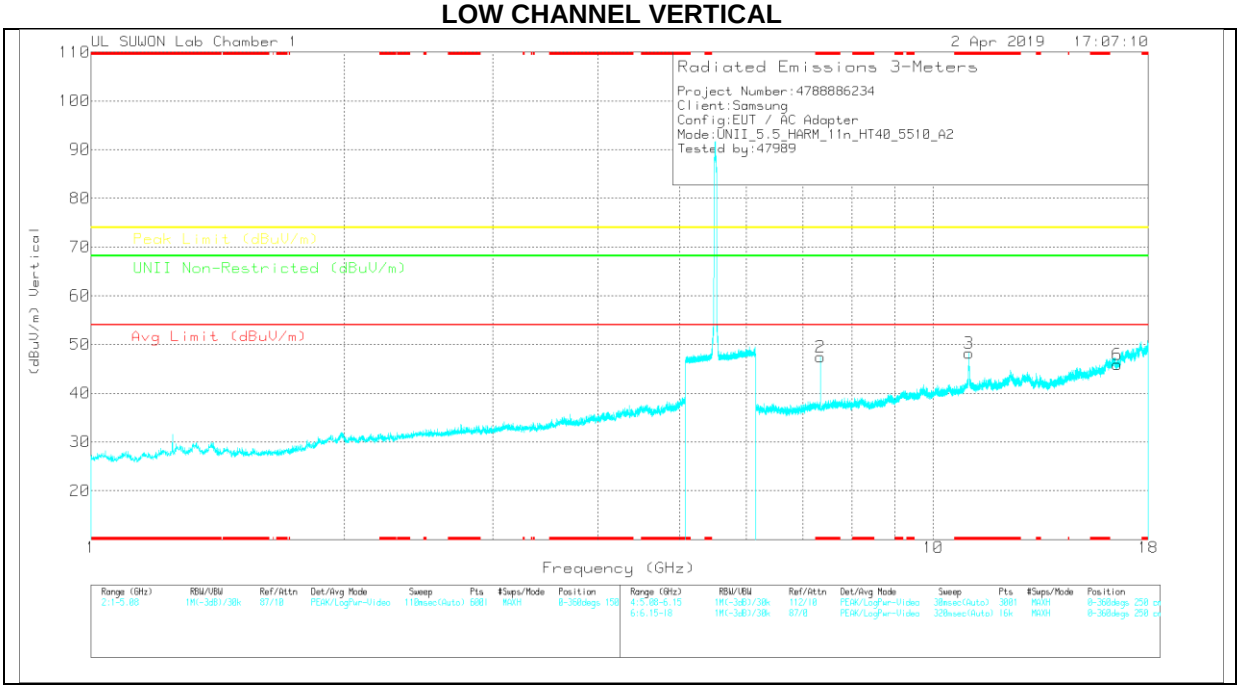
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




## LOW CHANNEL VERTICAL




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.346 | 36.5 | PK | 35.8 | -27.4 | 0 | 44.9 | - | - | 74 | -29.1 | - | - | 0-360 | 250 | H |
| 4 | * 11.019 | 33.44 | PK | 38.2 | -21.6 | 0 | 50.04 | - | - | 74 | -23.96 | - | - | 0-360 | 150 | H |
| 5 | 16.53 | 24.16 | PK | 40.9 | -19.4 | 0 | 45.66 | - | - | - | - | 68.2 | -22.54 | 0-360 | 250 | H |
| 2 | * 7.347 | 39 | PK | 35.8 | -27.4 | 0 | 47.4 | - | - | 74 | -26.6 | - | - | 0-360 | 150 | V |
| 3 | * 11.019 | 31.64 | PK | 38.2 | -21.6 | 0 | 48.24 | - | - | 74 | -25.76 | - | - | 0-360 | 150 | V |
| 6 | 16.53 | 24.39 | PK | 40.9 | -19.4 | 0 | 45.89 | - | - | - | - | 68.2 | -22.31 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.346 | 42.39 | PK-U | 35.8 | -27.4 | 0 | 50.79 | - | - | 74 | -23.21 | - | - | 199 | 386 | H |
| * 7.347 | 35.09 | ADR | 35.8 | -27.4 | 0 | 43.49 | 54 | -10.51 | - | - | - | - | 199 | 386 | H |
| * 7.347 | 44.38 | PK-U | 35.8 | -27.4 | 0 | 52.78 | - | - | 74 | -21.22 | - | - | 178 | 154 | V |
| * 7.347 | 38.75 | ADR | 35.8 | -27.4 | 0 | 47.15 | 54 | -6.85 | - | - | - | - | 178 | 154 | V |
| * 11.02 | 41.77 | PK-U | 38.2 | -21.6 | 0 | 58.37 | - | - | 74 | -15.63 | - | - | 199 | 119 | V |
| * 11.02 | 30.71 | ADR | 38.2 | -21.6 | 0 | 47.31 | 54 | -6.69 | - | - | - | - | 199 | 119 | V |
| * 11.02 | 43.18 | PK-U | 38.2 | -21.6 | 0 | 59.78 | - | - | 74 | -14.22 | - | - | 218 | 160 | H |
| * 11.02 | 33.32 | ADR | 38.2 | -21.6 | 0 | 49.92 | 54 | -4.08 | - | - | - | - | 218 | 160 | 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


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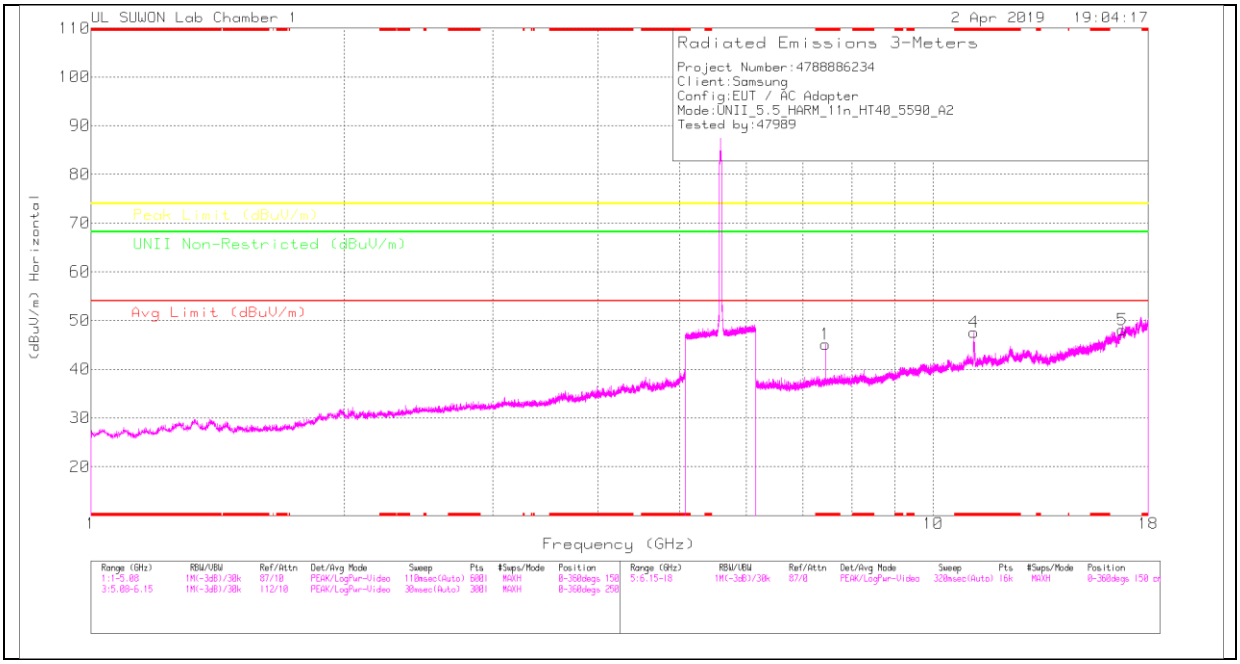
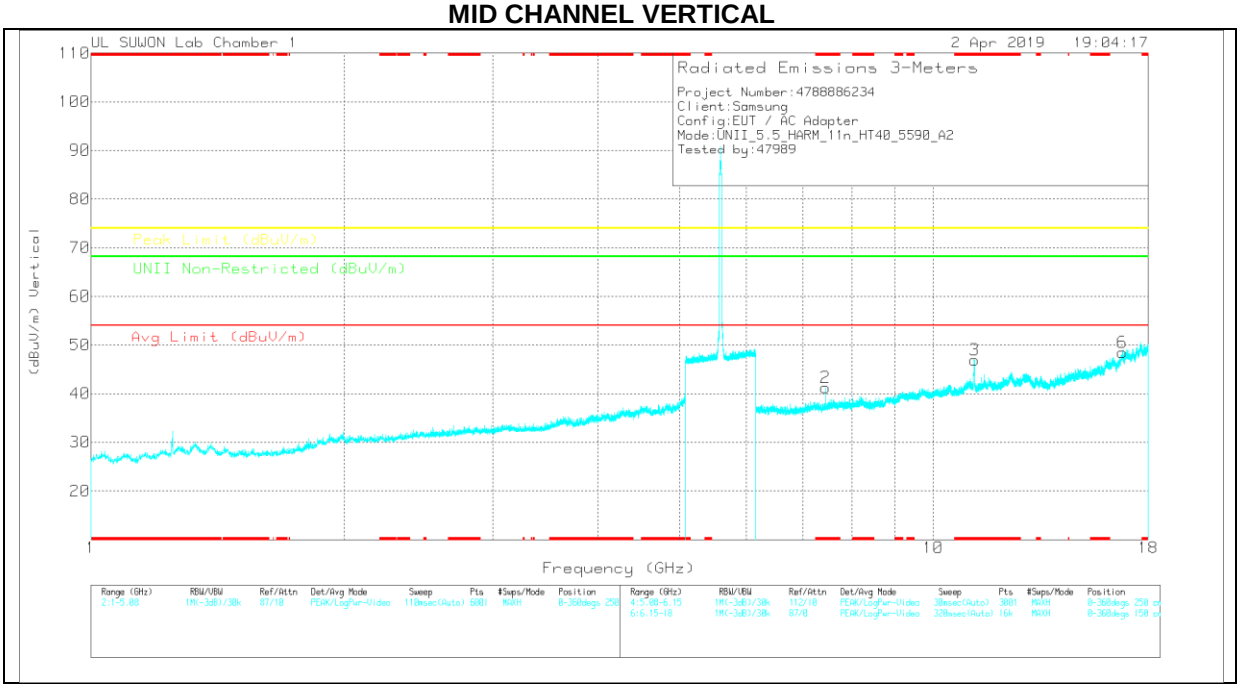
**MID CHANNEL HORIZONTAL**




**MID CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## MID CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.453 | 36.57 | PK | 35.8 | -27.3 | 0 | 45.07 | - | - | 74 | -28.93 | - | - | 0-360 | 150 | H |
| 4 | * 11.18 | 31.62 | PK | 38.3 | -22.4 | 0 | 47.52 | - | - | 74 | -26.48 | - | - | 0-360 | 150 | H |
| 5 | 16.77 | 24.04 | PK | 41.4 | -17.3 | 0 | 48.14 | - | - | - | - | 68.2 | -20.06 | 0-360 | 250 | H |
| 2 | * 7.453 | 32.77 | PK | 35.8 | -27.3 | 0 | 41.27 | - | - | 74 | -32.73 | - | - | 0-360 | 150 | V |
| 3 | * 11.187 | 30.99 | PK | 38.3 | -22.4 | 0 | 46.89 | - | - | 74 | -27.11 | - | - | 0-360 | 150 | V |
| 6 | 16.768 | 24.36 | PK | 41.4 | -17.3 | 0 | 48.46 | - | - | - | - | 68.2 | -19.74 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.453 | 43.53 | PK-U | 35.8 | -27.3 | 0 | 52.03 | - | - | 74 | -21.97 | - | - | 246 | 191 | H |
| * 7.453 | 37.32 | ADR | 35.8 | -27.3 | 0 | 45.82 | 54 | -8.18 | - | - | - | - | 246 | 191 | H |
| * 7.453 | 42.97 | PK-U | 35.8 | -27.3 | 0 | 51.47 | - | - | 74 | -22.53 | - | - | 215 | 188 | V |
| * 7.453 | 34.5 | ADR | 35.8 | -27.3 | 0 | 43 | 54 | -11 | - | - | - | - | 215 | 188 | V |
| * 11.18 | 42.9 | PK-U | 38.3 | -22.4 | 0 | 58.8 | - | - | 74 | -15.2 | - | - | 173 | 163 | V |
| * 11.18 | 31.05 | ADR | 38.3 | -22.4 | 0 | 46.95 | 54 | -7.05 | - | - | - | - | 173 | 163 | V |
| * 11.18 | 41.51 | PK-U | 38.3 | -22.4 | 0 | 57.41 | - | - | 74 | -16.59 | - | - | 193 | 146 | H |
| * 11.18 | 31.26 | ADR | 38.3 | -22.4 | 0 | 47.16 | 54 | -6.84 | - | - | - | - | 193 | 146 | 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


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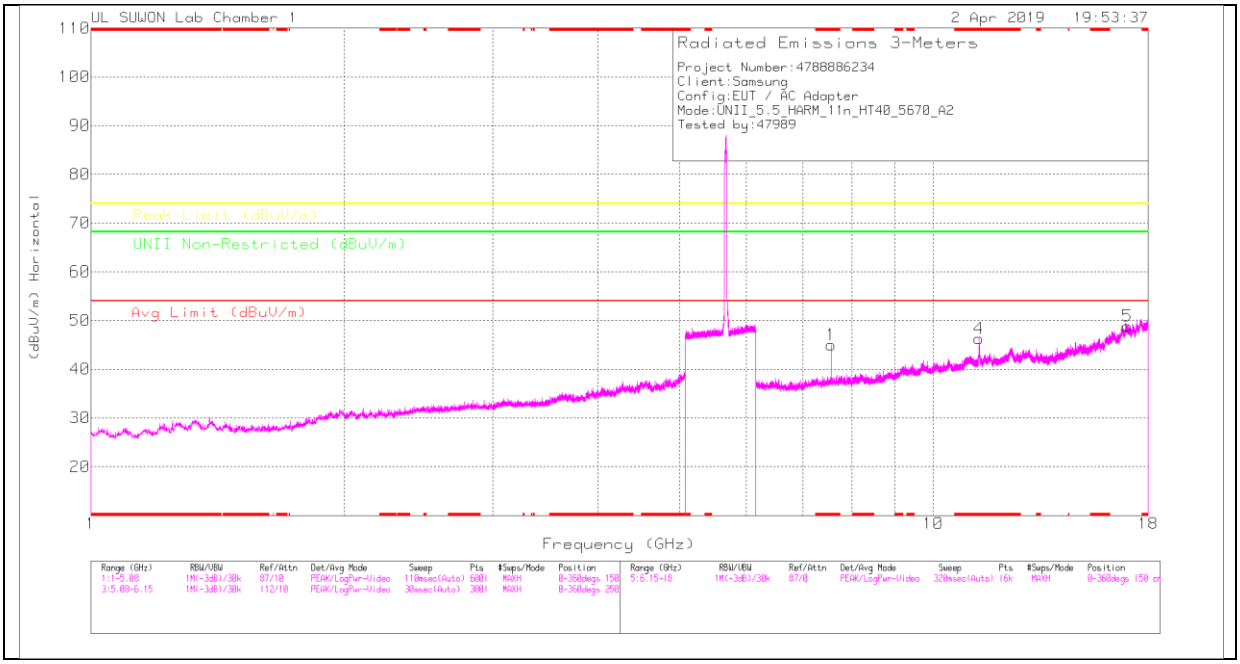
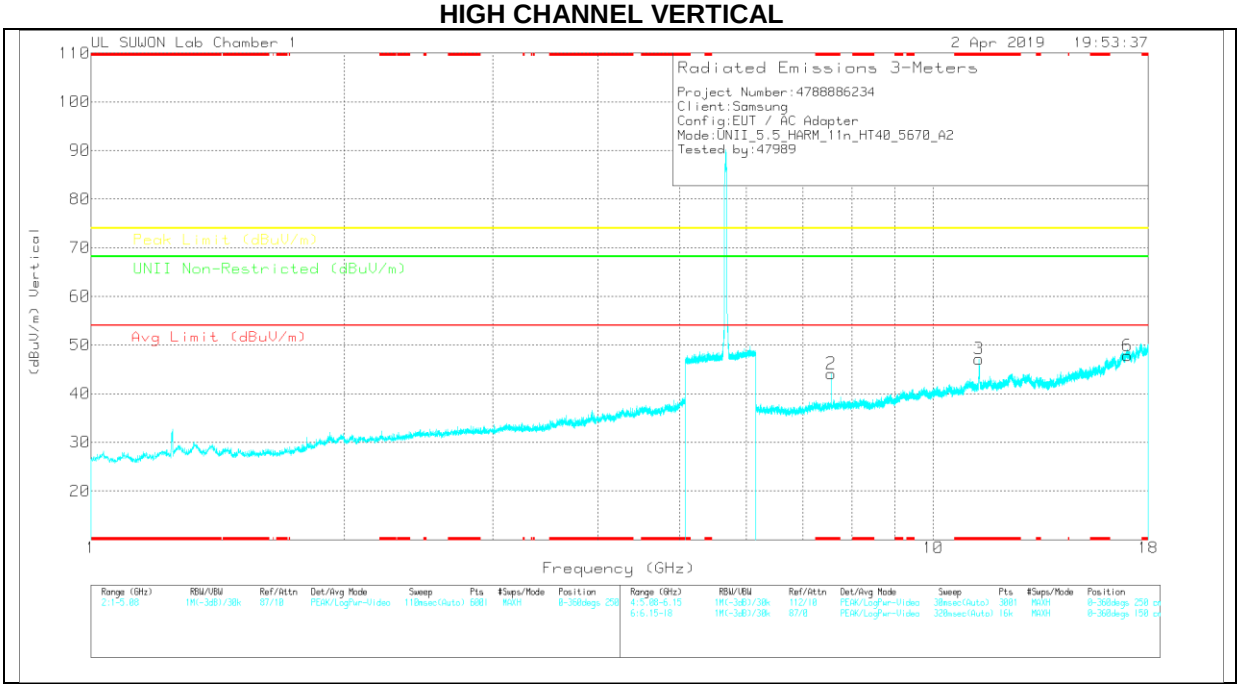
**HIGH CHANNEL HORIZONTAL**




**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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**HIGH CHANNEL DATA**

## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.559 | 35.63 | PK | 35.8 | -26.5 | 0 | 44.93 | - | - | 74 | -29.07 | - | - | 0-360 | 250 | H |
| 4 | * 11.34 | 30.13 | PK | 38.4 | -22.2 | 0 | 46.33 | - | - | 74 | -27.67 | - | - | 0-360 | 150 | H |
| 5 | 17.011 | 24.51 | PK | 41.7 | -17.4 | 0 | 48.81 | - | - | - | - | 68.2 | -19.39 | 0-360 | 150 | H |
| 2 | * 7.559 | 34.84 | PK | 35.8 | -26.5 | 0 | 44.14 | - | - | 74 | -29.86 | - | - | 0-360 | 150 | V |
| 3 | * 11.34 | 30.92 | PK | 38.4 | -22.2 | 0 | 47.12 | - | - | 74 | -26.88 | - | - | 0-360 | 150 | V |
| 6 | 17.011 | 23.51 | PK | 41.7 | -17.4 | 0 | 47.81 | - | - | - | - | 68.2 | -20.39 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

## Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.56 | 42.72 | PK-U | 35.8 | -26.5 | 0 | 52.02 | - | - | 74 | -21.98 | - | - | 267 | 189 | H |
| * 7.56 | 36.03 | ADR | 35.8 | -26.5 | 0 | 45.33 | 54 | -8.67 | - | - | - | - | 267 | 189 | H |
| * 7.56 | 42.35 | PK-U | 35.8 | -26.5 | 0 | 51.65 | - | - | 74 | -22.35 | - | - | 218 | 173 | V |
| * 7.56 | 34.61 | ADR | 35.8 | -26.5 | 0 | 43.91 | 54 | -10.09 | - | - | - | - | 218 | 173 | V |
| * 11.34 | 42.53 | PK-U | 38.4 | -22.2 | 0 | 58.73 | - | - | 74 | -15.27 | - | - | 174 | 164 | V |
| * 11.34 | 30.5 | ADR | 38.4 | -22.2 | 0 | 46.7 | 54 | -7.3 | - | - | - | - | 174 | 164 | V |
| * 11.341 | 40.42 | PK-U | 38.4 | -22.2 | 0 | 56.62 | - | - | 74 | -17.38 | - | - | 220 | 154 | H |
| * 11.34 | 29.77 | ADR | 38.4 | -22.2 | 0 | 45.97 | 54 | -8.03 | - | - | - | - | 220 | 154 | 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


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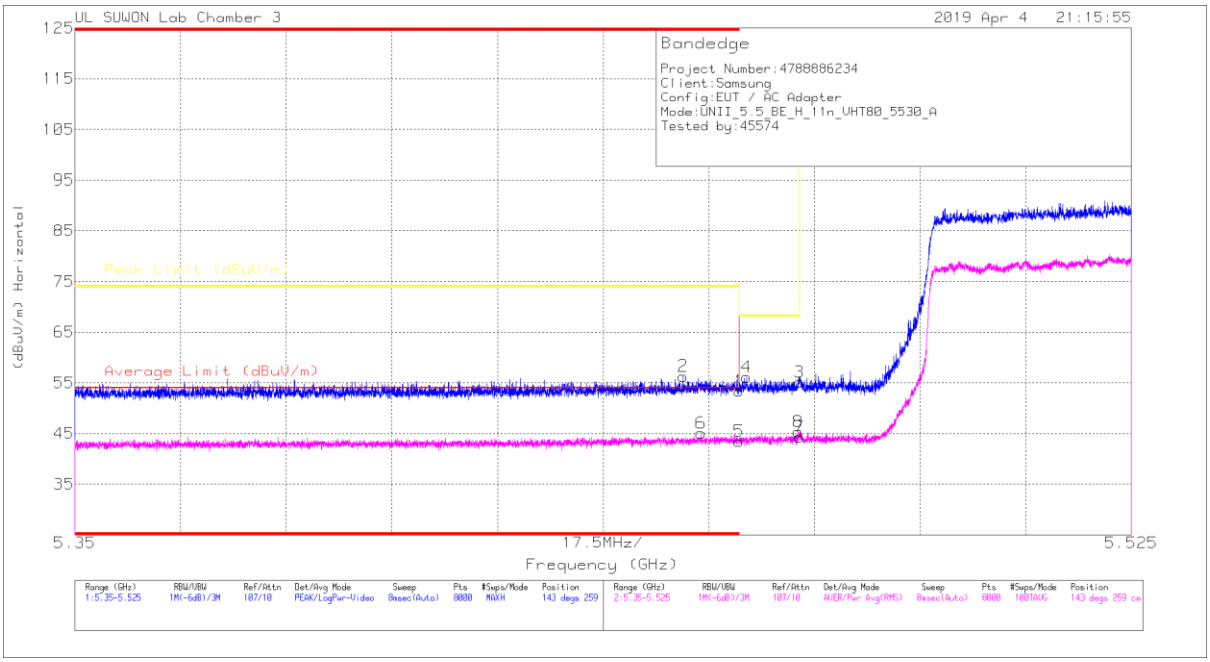
## 11.3.10. TX ABOVE 1GHz 802.11ac VHT80 2Tx CDD MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

### HORIZONTAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 37.1 | Pk | 34.7 | -18.4 | 0 | 53.4 | - | - | 74 | -20.6 | 143 | 259 | H |
| 2 | * 5.451 | 40.11 | Pk | 34.7 | -18.5 | 0 | 56.31 | - | - | 74 | -17.69 | 143 | 259 | H |
| 3 | 5.47 | 38.92 | Pk | 34.7 | -18.5 | 0 | 55.12 | - | - | 68.2 | -13.08 | 143 | 259 | H |
| 4 | 5.461 | 39.77 | Pk | 34.7 | -18.4 | 0 | 56.07 | - | - | 68.2 | -12.13 | 143 | 259 | H |
| 5 | * 5.46 | 27.75 | RMS | 34.7 | -19 | 0 | 43.45 | 54 | -10.55 | - | - | 143 | 259 | H |
| 6 | * 5.454 | 29.4 | RMS | 34.7 | -19 | 0 | 45.1 | 54 | -8.9 | - | - | 143 | 259 | H |
| 7 | 5.47 | 28.57 | RMS | 34.7 | -18.9 | 0 | 44.37 | - | - | - | - | 143 | 259 | H |
| 8 | 5.47 | 29.47 | RMS | 34.7 | -18.9 | 0 | 45.27 | - | - | - | - | 143 | 259 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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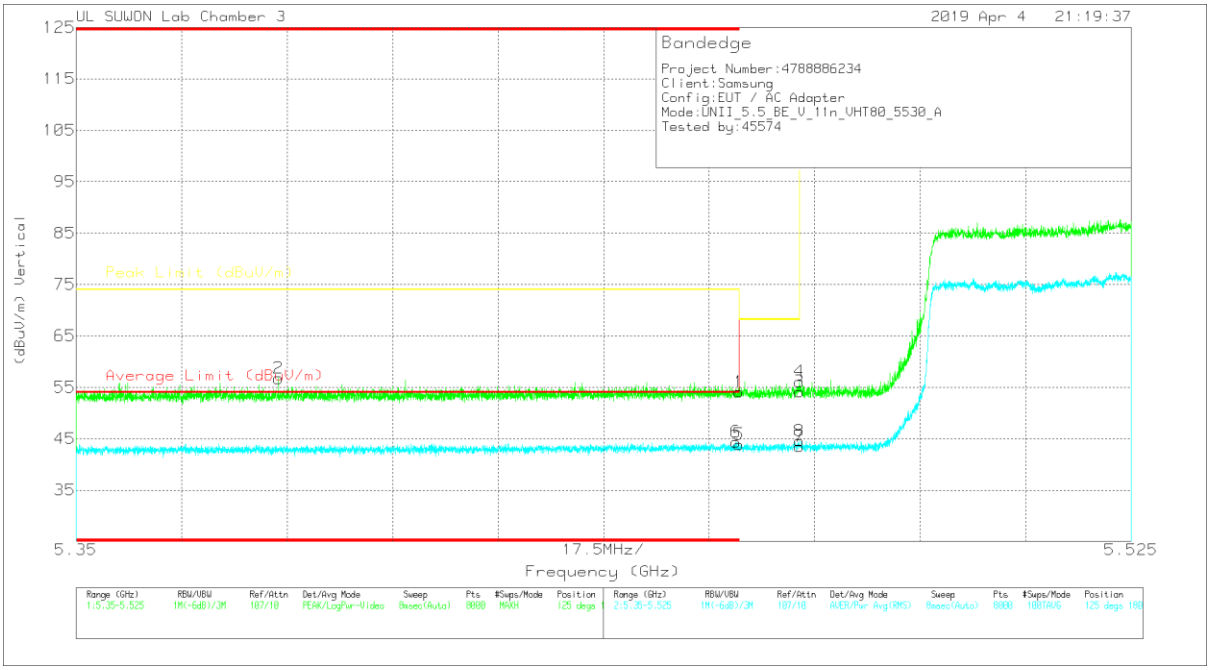
## VERTICAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 37.8 | Pk | 34.7 | -18.4 | 0 | 54.1 | - | - | 74 | -19.9 | 125 | 180 | V |
| 2 | * 5.384 | 40.76 | Pk | 34.7 | -18.7 | 0 | 56.76 | - | - | 74 | -17.24 | 125 | 180 | V |
| 3 | 5.47 | 37.96 | Pk | 34.7 | -18.5 | 0 | 54.16 | - | - | 68.2 | -14.04 | 125 | 180 | V |
| 4 | 5.47 | 39.91 | Pk | 34.7 | -18.5 | 0 | 56.11 | - | - | 68.2 | -12.09 | 125 | 180 | V |
| 5 | * 5.46 | 28.2 | RMS | 34.7 | -19 | 0 | 43.9 | 54 | -10.1 | - | - | 125 | 180 | V |
| 6 | * 5.459 | 28.68 | RMS | 34.7 | -19 | 0 | 44.38 | 54 | -9.62 | - | - | 125 | 180 | V |
| 7 | 5.47 | 27.66 | RMS | 34.7 | -18.9 | 0 | 43.46 | - | - | - | - | 125 | 180 | V |
| 8 | 5.47 | 28.75 | RMS | 34.7 | -18.9 | 0 | 44.55 | - | - | - | - | 125 | 180 | V |

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

## AUTHORIZED BANDEDGE (HIGH CHANNEL)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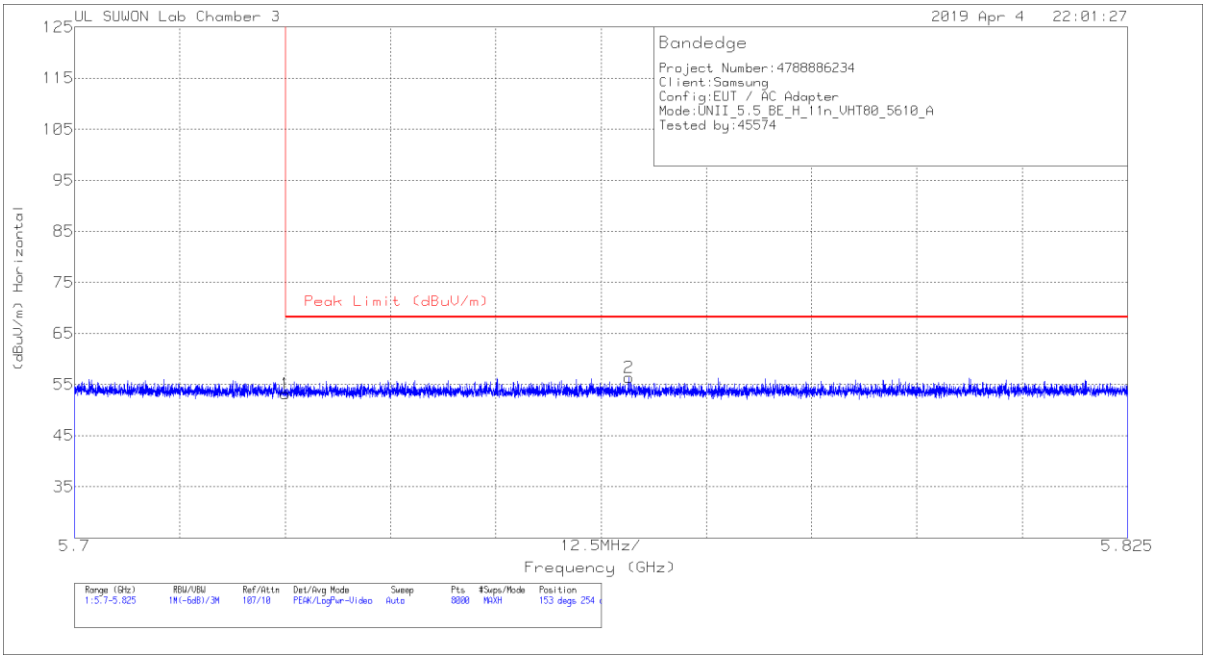
## HORIZONTAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 36.34 | Pk | 34.8 | -17.9 | 53.24 | 68.2 | -14.96 | 153 | 254 | H |
| 2 | 5.766 | 39.51 | Pk | 34.8 | -17.9 | 56.41 | 68.2 | -11.79 | 153 | 254 | H |

Pk - Peak detector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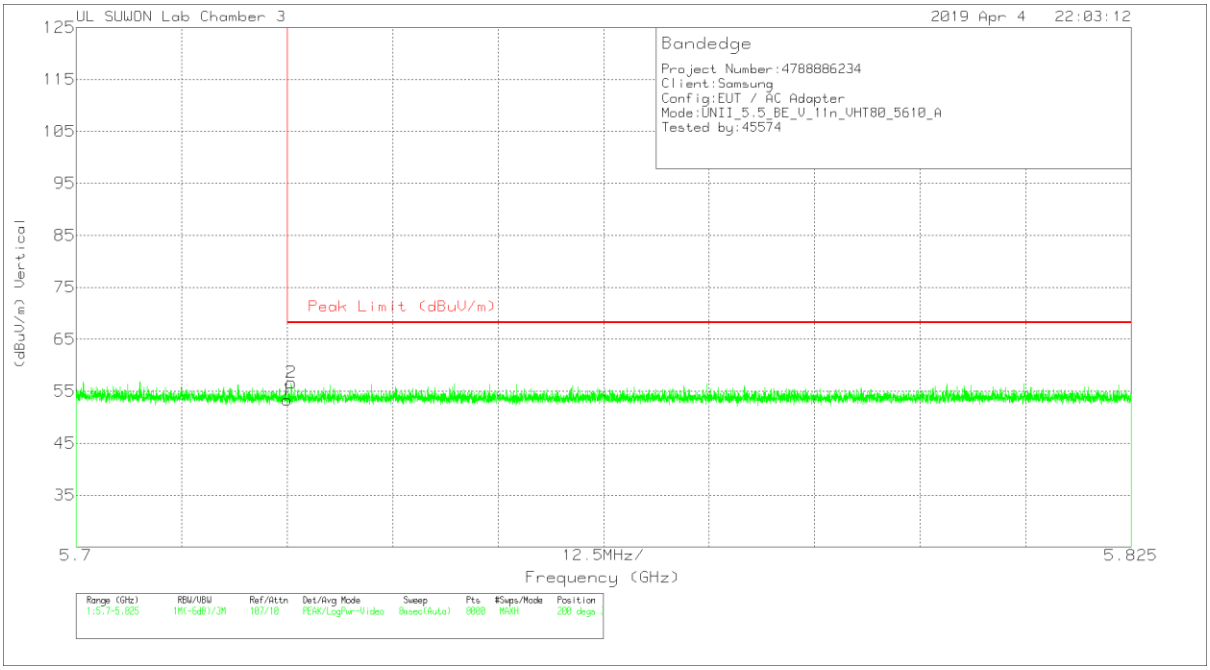
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 36.44 | Pk | 34.8 | -17.9 | 53.34 | 68.2 | -14.86 | 200 | 317 | V |
| 2 | 5.726 | 39.74 | Pk | 34.8 | -17.9 | 56.64 | 68.2 | -11.56 | 200 | 317 | V |

Pk - Peak detector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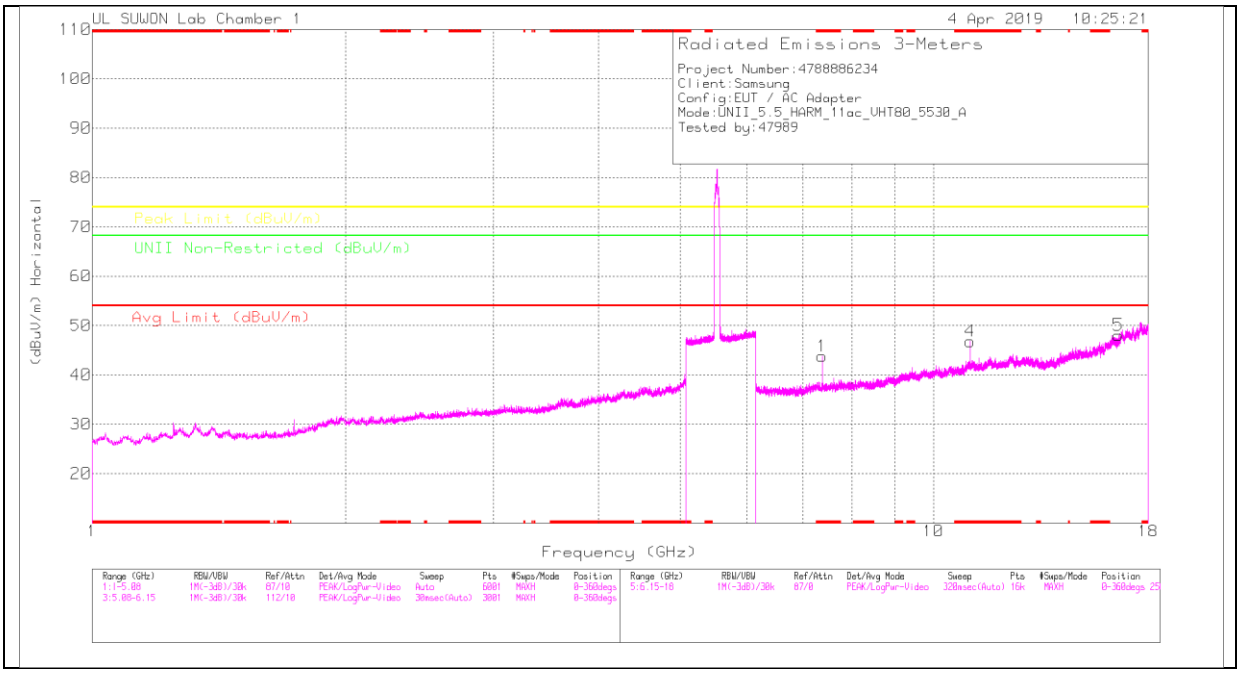
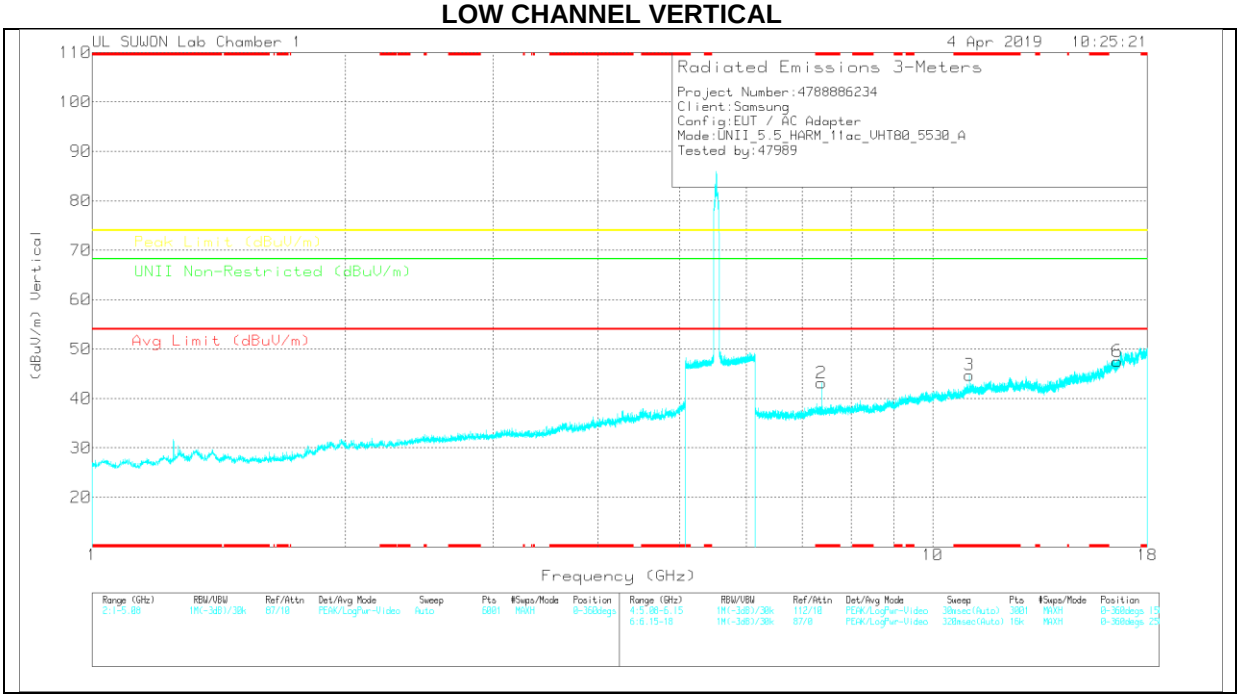
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




## LOW CHANNEL VERTICAL




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## LOW CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.373 | 35.5 | PK | 35.8 | -27.5 | 0 | 43.8 | - | - | 74 | -30.2 | - | - | 0-360 | 250 | H |
| 4 | * 11.06 | 30.7 | PK | 38.2 | -22.1 | 0 | 46.8 | - | - | 74 | -27.2 | - | - | 0-360 | 150 | H |
| 5 | 16.585 | 25.94 | PK | 40.9 | -18.8 | 0 | 48.04 | - | - | - | - | 68.2 | -20.16 | 0-360 | 150 | H |
| 2 | * 7.373 | 34.83 | PK | 35.8 | -27.5 | 0 | 43.13 | - | - | 74 | -30.87 | - | - | 0-360 | 150 | V |
| 3 | * 11.059 | 28.65 | PK | 38.2 | -22.1 | 0 | 44.75 | - | - | 74 | -29.25 | - | - | 0-360 | 150 | V |
| 6 | 16.587 | 25.41 | PK | 40.9 | -18.8 | 0 | 47.51 | - | - | - | - | 68.2 | -20.69 | 0-360 | 250 | V |

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

PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.373 | 42.44 | PK-U | 35.8 | -27.5 | 0 | 50.74 | - | - | 74 | -23.26 | - | - | 207 | 369 | H |
| * 7.373 | 35.23 | ADR | 35.8 | -27.5 | 0 | 43.53 | 54 | -10.47 | - | - | - | - | 207 | 369 | H |
| * 7.373 | 42.87 | PK-U | 35.8 | -27.5 | 0 | 51.17 | - | - | 74 | -22.83 | - | - | 176 | 108 | V |
| * 7.373 | 35.52 | ADR | 35.8 | -27.5 | 0 | 43.82 | 54 | -10.18 | - | - | - | - | 176 | 108 | V |
| * 11.06 | 37.65 | PK-U | 38.2 | -22.1 | 0 | 53.75 | - | - | 74 | -20.25 | - | - | 208 | 145 | V |
| * 11.06 | 27.98 | ADR | 38.2 | -22.1 | 0 | 44.08 | 54 | -9.92 | - | - | - | - | 208 | 145 | V |
| * 11.06 | 38.97 | PK-U | 38.2 | -22.1 | 0 | 55.07 | - | - | 74 | -18.93 | - | - | 222 | 163 | H |
| * 11.06 | 31.39 | ADR | 38.2 | -22.1 | 0 | 47.49 | 54 | -6.51 | - | - | - | - | 222 | 163 | 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


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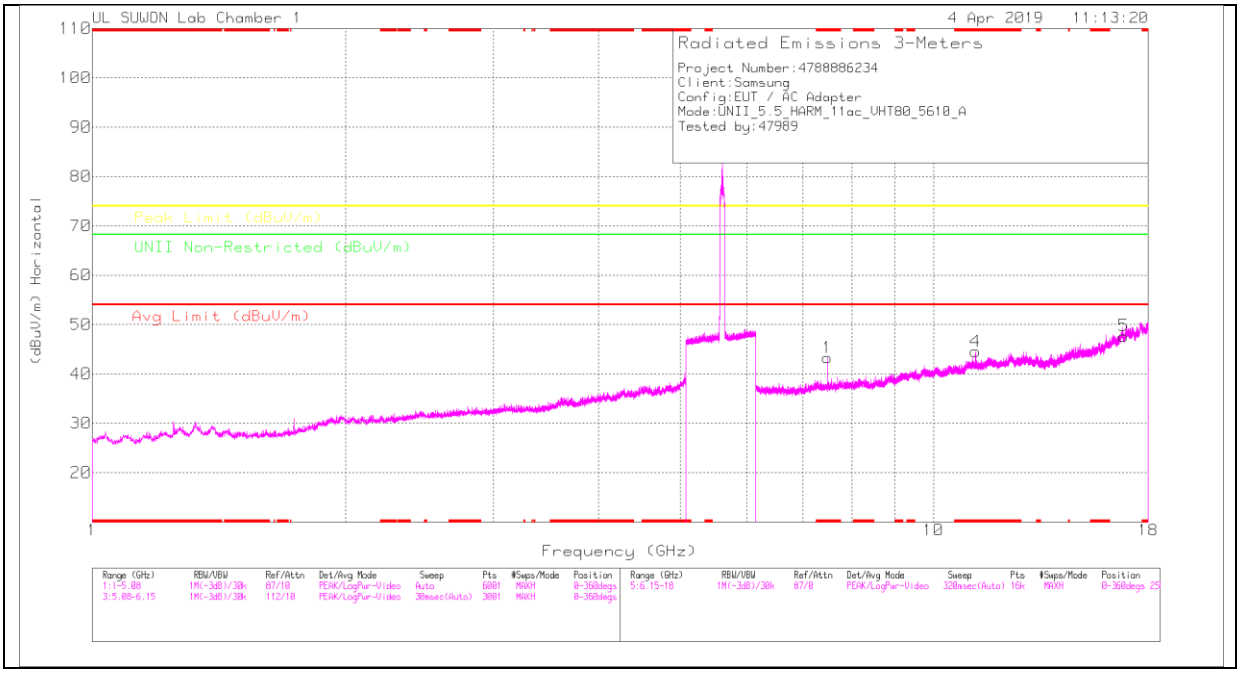
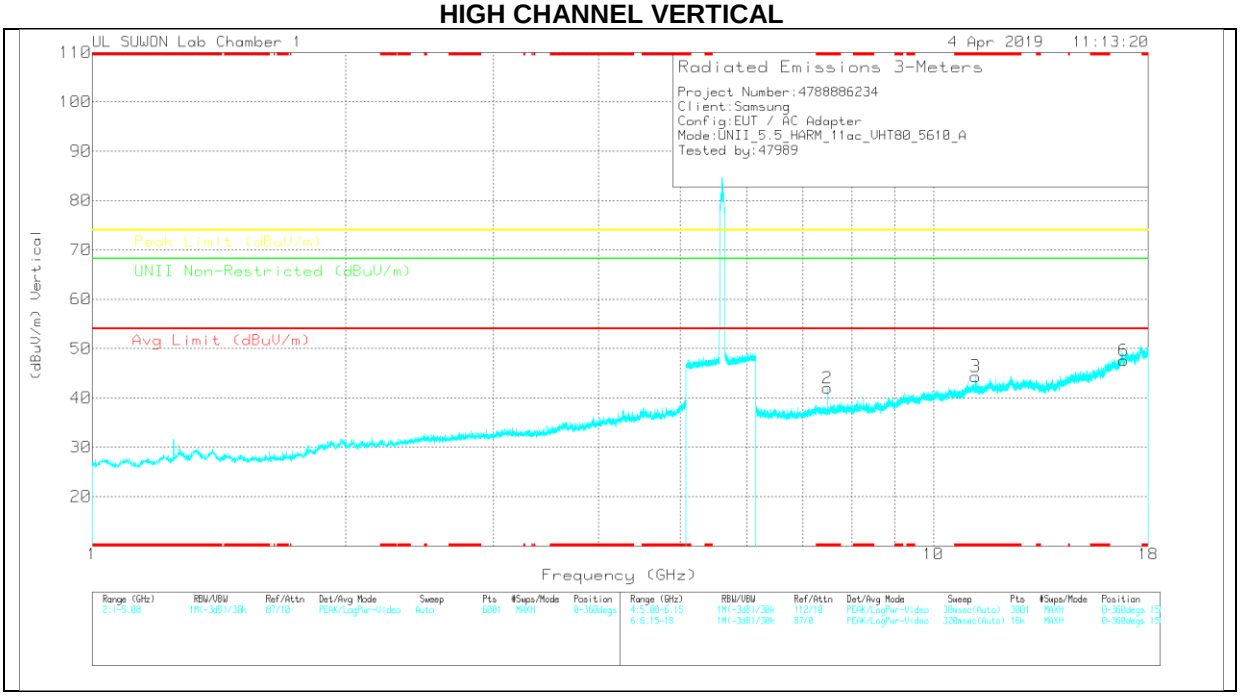
**HIGH CHANNEL HORIZONTAL**




**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## HIGH CHANNEL DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.48 | 34.67 | PK | 35.8 | -27.2 | 0 | 43.27 | - | - | 74 | -30.73 | - | - | 0-360 | 150 | H |
| 4 | * 11.22 | 28.64 | PK | 38.4 | -22.5 | 0 | 44.54 | - | - | 74 | -29.46 | - | - | 0-360 | 150 | H |
| 5 | 16.831 | 24.58 | PK | 41.5 | -18.4 | 0 | 47.68 | - | - | - | - | 68.2 | -20.52 | 0-360 | 250 | H |
| 2 | * 7.479 | 33.28 | PK | 35.8 | -27.1 | 0 | 41.98 | - | - | 74 | -32.02 | - | - | 0-360 | 150 | V |
| 3 | * 11.22 | 28.42 | PK | 38.4 | -22.5 | 0 | 44.32 | - | - | 74 | -29.68 | - | - | 0-360 | 150 | V |
| 6 | 16.828 | 24.41 | PK | 41.5 | -18.3 | 0 | 47.61 | - | - | - | - | 68.2 | -20.59 | 0-360 | 150 | V |

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

PK – Peak Detector

Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.48 | 42.59 | PK-U | 35.8 | -27.2 | 0 | 51.19 | - | - | 74 | -22.81 | - | - | 248 | 205 | H |
| * 7.48 | 35.79 | ADR | 35.8 | -27.2 | 0 | 44.39 | 54 | -9.61 | - | - | - | - | 248 | 205 | H |
| * 7.48 | 41.43 | PK-U | 35.8 | -27.2 | 0 | 50.03 | - | - | 74 | -23.97 | - | - | 201 | 393 | V |
| * 7.48 | 33.45 | ADR | 35.8 | -27.2 | 0 | 42.05 | 54 | -11.95 | - | - | - | - | 201 | 393 | 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



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218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675 Korea TEL: (031) 337-9902,FAX: (031) 213-5433

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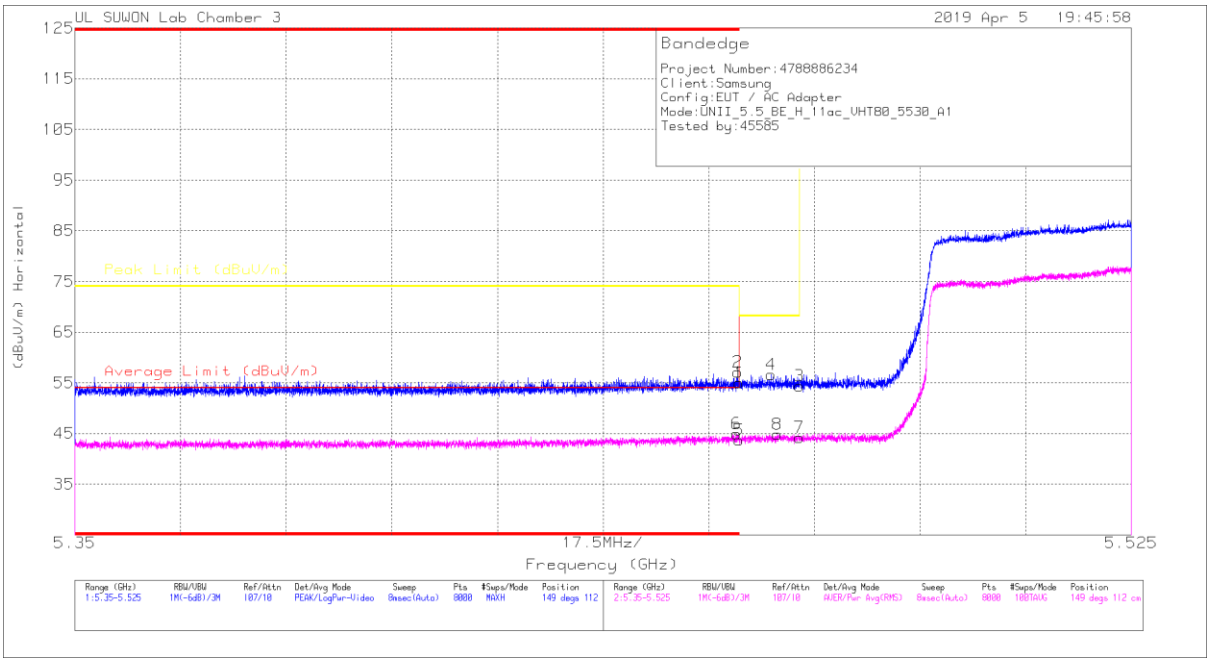
## 11.3.11. TX ABOVE 1GHz 802.11ac VHT80 1Tx ANT1 IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

### HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 38.72 | Pk | 34.7 | -18.4 | 0 | 55.02 | - | - | 74 | -18.98 | 149 | 112 | H |
| 2 | * 5.46 | 40.82 | Pk | 34.7 | -18.4 | 0 | 57.12 | - | - | 74 | -16.88 | 149 | 112 | H |
| 3 | 5.47 | 38.23 | Pk | 34.7 | -18.5 | 0 | 54.43 | - | - | 68.2 | -13.77 | 149 | 112 | H |
| 4 | 5.465 | 40.34 | Pk | 34.7 | -18.4 | 0 | 56.64 | - | - | 68.2 | -11.56 | 149 | 112 | H |
| 5 | * 5.46 | 27.97 | RMS | 34.7 | -19 | 0 | 43.67 | 54 | -10.33 | - | - | 149 | 112 | H |
| 6 | * 5.46 | 29.22 | RMS | 34.7 | -19 | 0 | 44.92 | 54 | -9.08 | - | - | 149 | 112 | H |
| 7 | 5.47 | 28.38 | RMS | 34.7 | -18.9 | 0 | 44.18 | - | - | - | - | 149 | 112 | H |
| 8 | 5.466 | 29.08 | RMS | 34.7 | -18.9 | 0 | 44.88 | - | - | - | - | 149 | 112 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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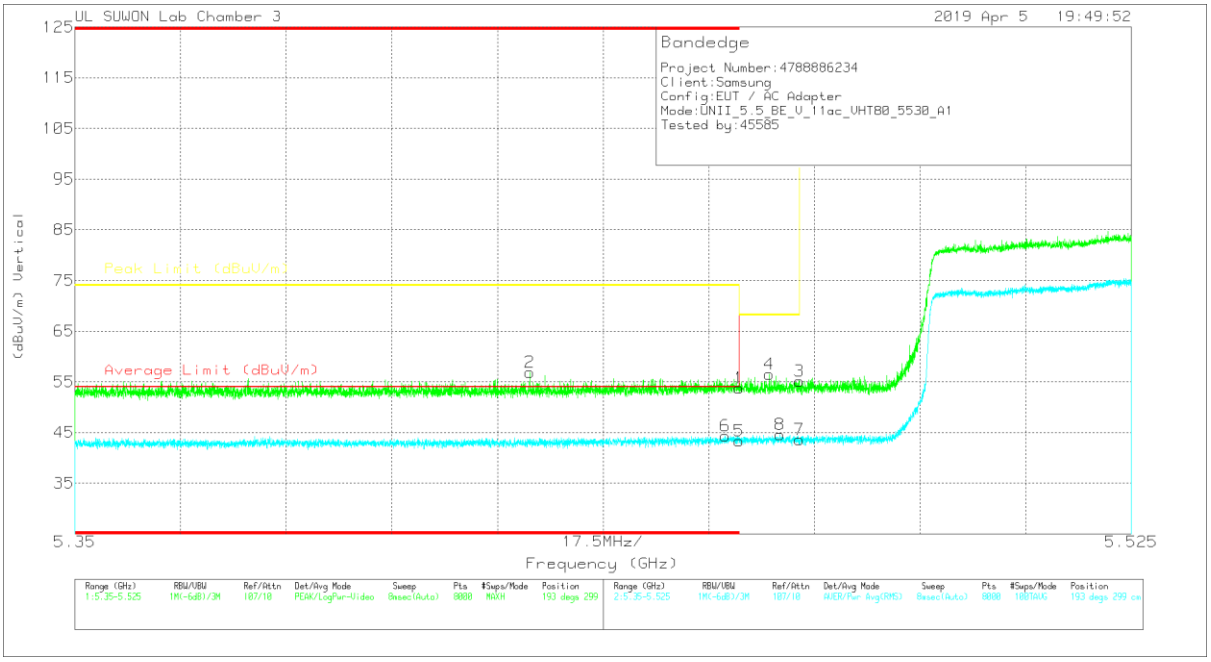
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 37.49 | Pk | 34.7 | -18.4 | 0 | 53.79 | - | - | 74 | -20.21 | 193 | 299 | V |
| 2 | * 5.425 | 40.79 | Pk | 34.7 | -18.6 | 0 | 56.89 | - | - | 74 | -17.11 | 193 | 299 | V |
| 3 | 5.47 | 38.91 | Pk | 34.7 | -18.5 | 0 | 55.11 | - | - | 68.2 | -13.09 | 193 | 299 | V |
| 4 | 5.465 | 40.15 | Pk | 34.7 | -18.4 | 0 | 56.45 | - | - | 68.2 | -11.75 | 193 | 299 | V |
| 5 | * 5.46 | 27.6 | RMS | 34.7 | -19 | 0 | 43.3 | 54 | -10.7 | - | - | 193 | 299 | V |
| 6 | * 5.458 | 28.66 | RMS | 34.7 | -19 | 0 | 44.36 | 54 | -9.64 | - | - | 193 | 299 | V |
| 7 | 5.47 | 27.82 | RMS | 34.7 | -18.9 | 0 | 43.62 | - | - | - | - | 193 | 299 | V |
| 8 | 5.467 | 28.78 | RMS | 34.7 | -18.9 | 0 | 44.58 | - | - | - | - | 193 | 299 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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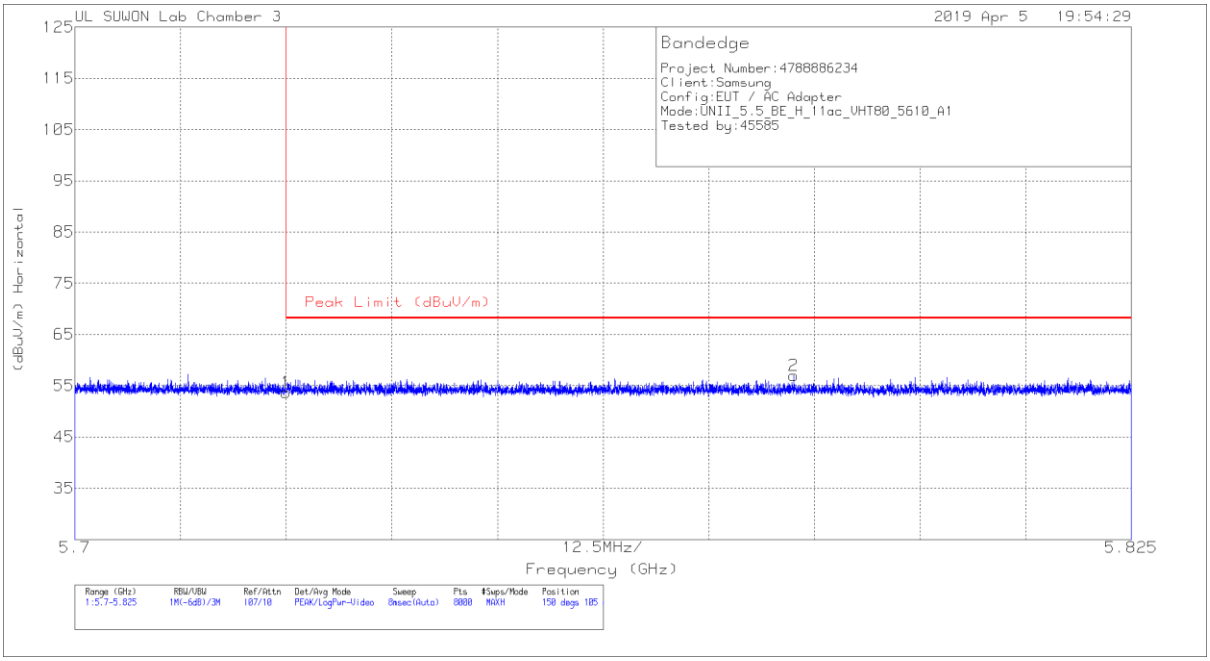
# AUTHORIZED BANDEDGE (HIGH CHANNEL)

## HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 36.79 | Pk | 34.8 | -17.9 | 0 | 53.69 | 68.2 | -14.51 | 150 | 105 | H |
| 2 | 5.785 | 39.91 | Pk | 34.9 | -17.8 | 0 | 57.01 | 68.2 | -11.19 | 150 | 105 | H |

Pk - Peak detector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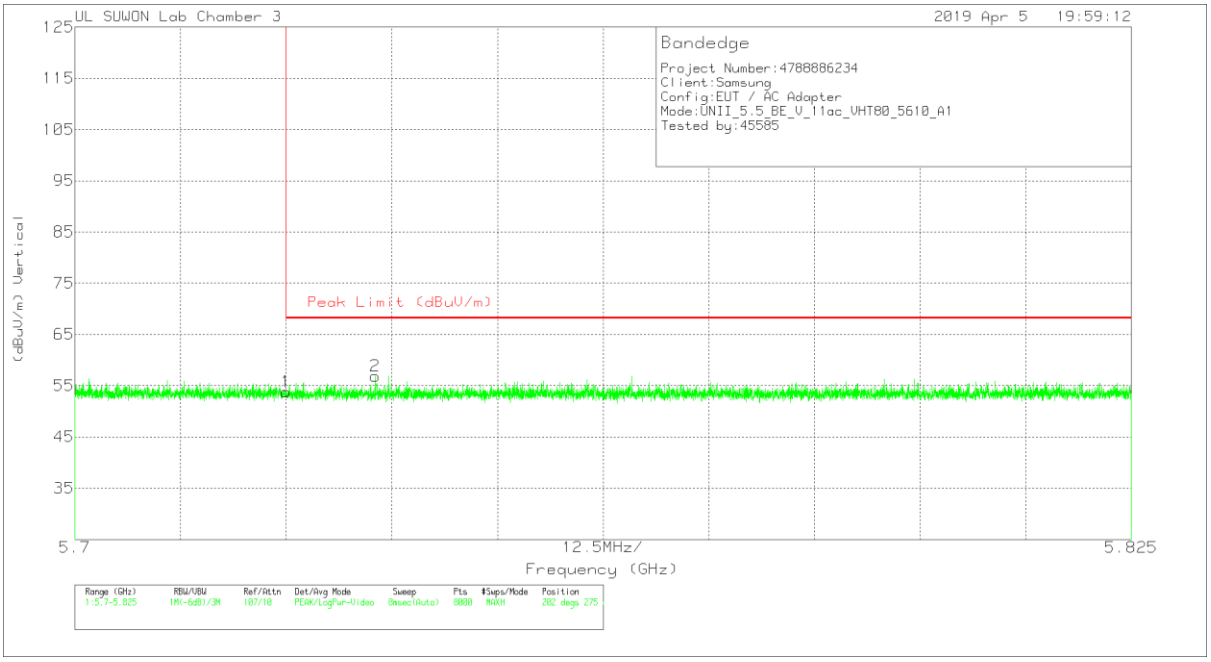
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 36.95 | Pk | 34.8 | -17.9 | 0 | 53.85 | 68.2 | -14.35 | 202 | 275 | V |
| 2 | 5.736 | 39.99 | Pk | 34.8 | -17.9 | 0 | 56.89 | 68.2 | -11.31 | 202 | 275 | V |

Pk - Peak detector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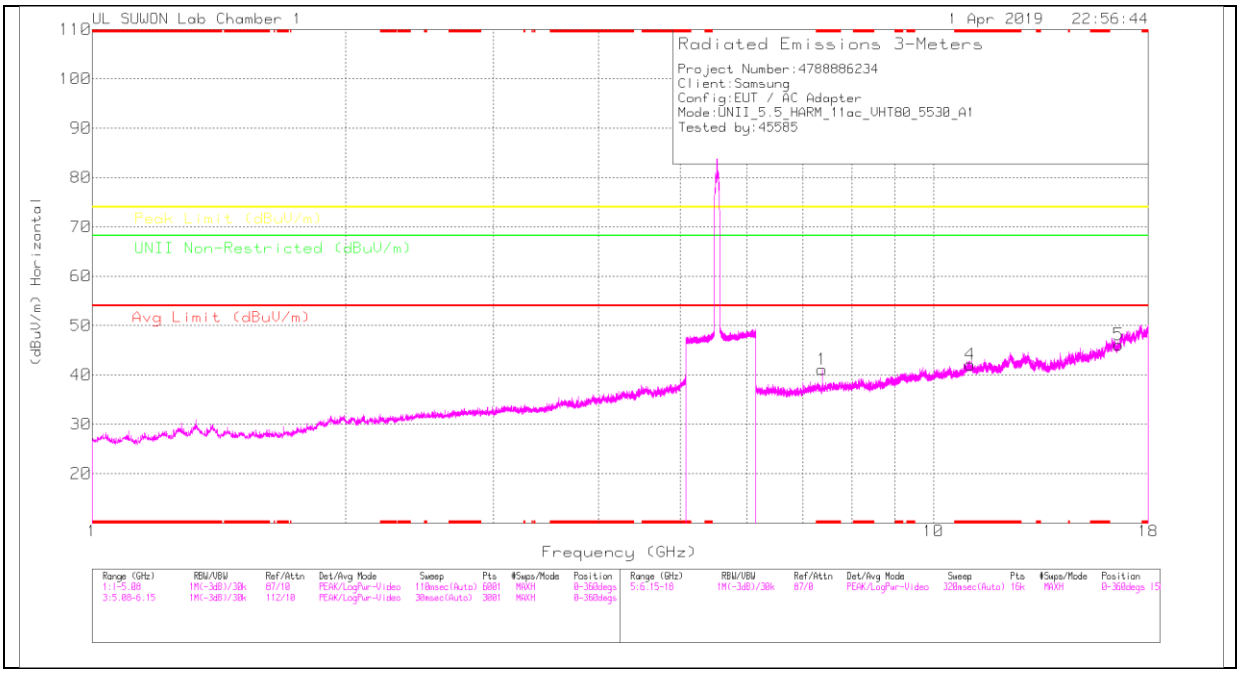
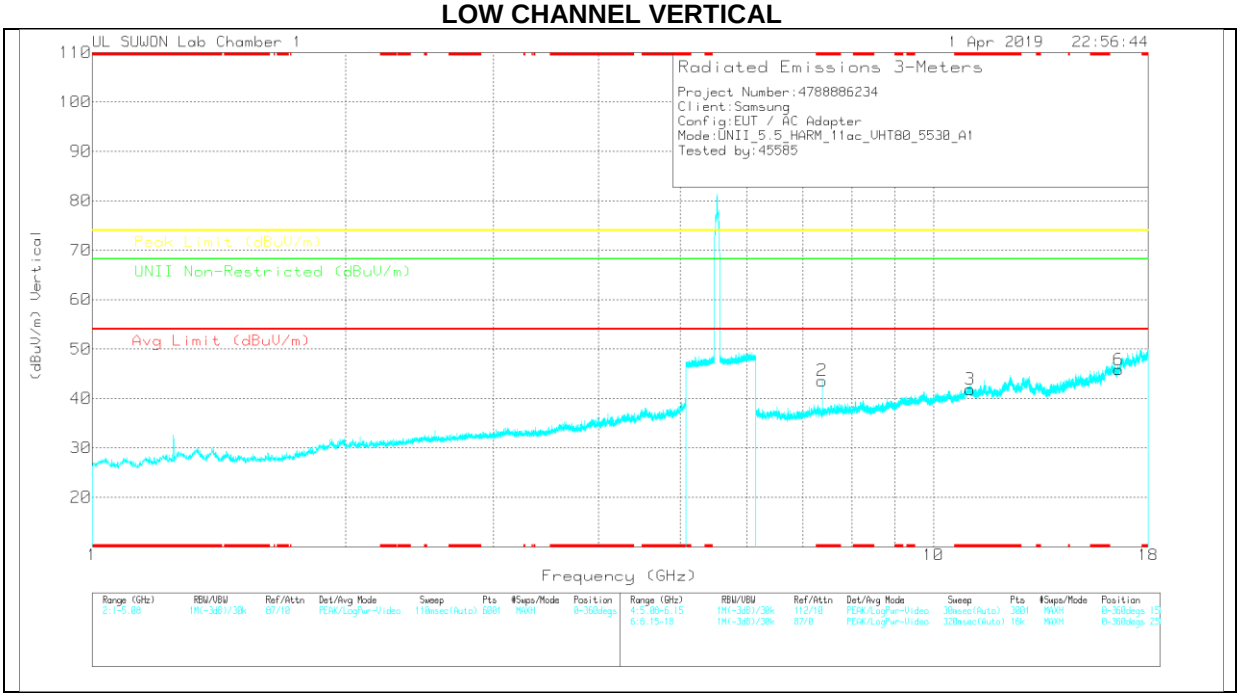
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




## LOW CHANNEL VERTICAL




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.373 | 32.8 | PK | 35.8 | -27.5 | 0 | 41.1 | - | - | 74 | -32.9 | - | - | 0-360 | 150 | H |
| 4 | * 11.062 | 25.99 | PK | 38.2 | -22.1 | 0 | 42.09 | - | - | 74 | -31.91 | - | - | 0-360 | 150 | H |
| 5 | 16.589 | 23.93 | PK | 41 | -18.8 | 0 | 46.13 | - | - | - | - | 68.2 | -22.07 | 0-360 | 250 | H |
| 2 | * 7.373 | 35.3 | PK | 35.8 | -27.5 | 0 | 43.6 | - | - | 74 | -30.4 | - | - | 0-360 | 150 | V |
| 3 | * 11.062 | 25.74 | PK | 38.2 | -22.1 | 0 | 41.84 | - | - | 74 | -32.16 | - | - | 0-360 | 250 | V |
| 6 | 16.589 | 23.64 | PK | 41 | -18.8 | 0 | 45.84 | - | - | - | - | 68.2 | -22.36 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.373 | 41.48 | PK-U | 35.8 | -27.5 | 0 | 49.78 | - | - | 74 | -24.22 | - | - | 148 | 101 | H |
| * 7.373 | 32.79 | ADR | 35.8 | -27.5 | 0 | 41.09 | 54 | -12.91 | - | - | - | - | 148 | 101 | H |
| * 7.373 | 42.81 | PK-U | 35.8 | -27.5 | 0 | 51.11 | - | - | 74 | -22.89 | - | - | 282 | 101 | V |
| * 7.373 | 35.83 | ADR | 35.8 | -27.5 | 0 | 44.13 | 54 | -9.87 | - | - | - | - | 282 | 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


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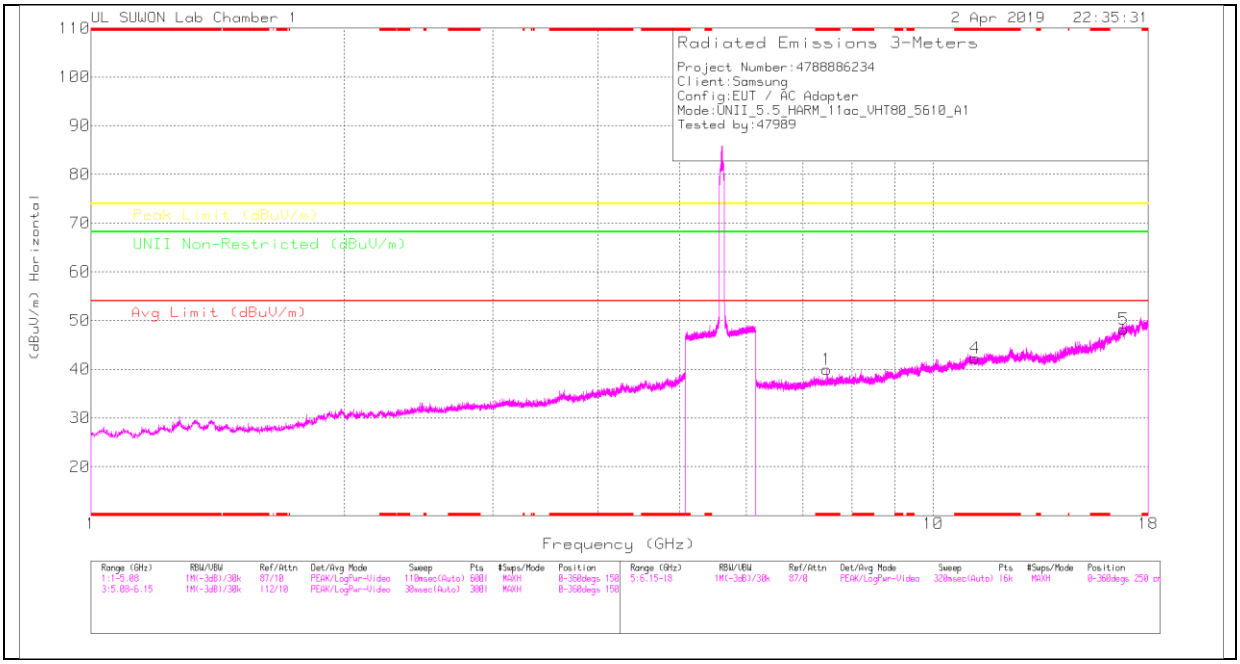
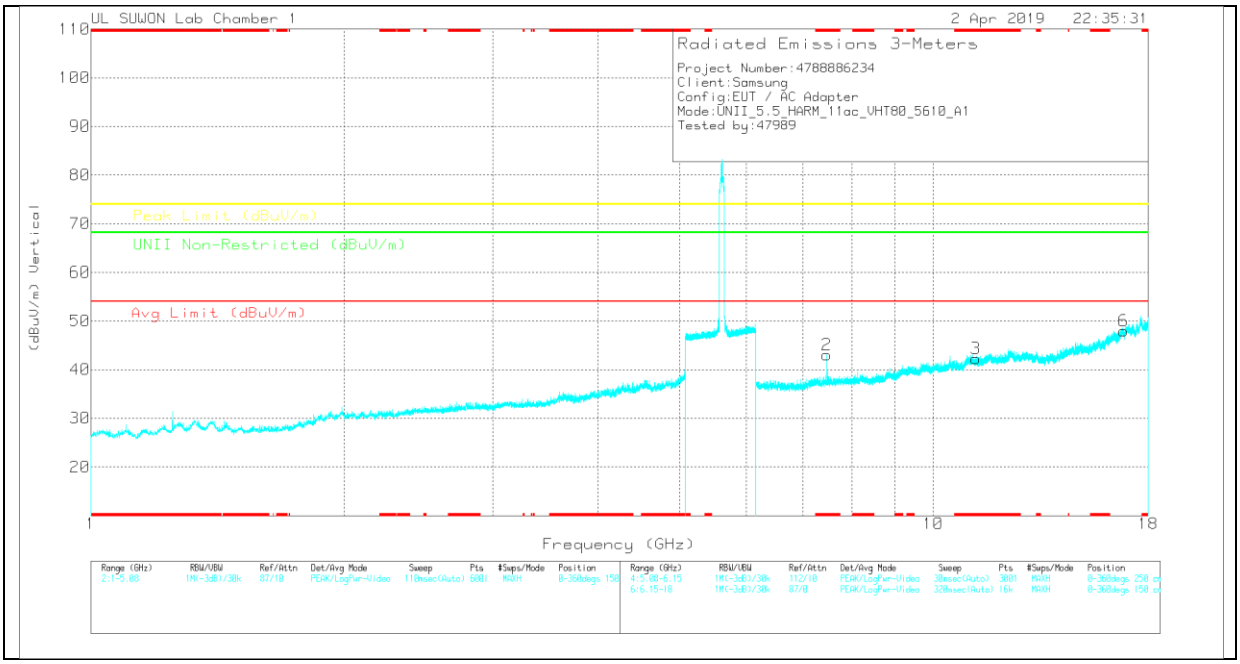
**HIGH CHANNEL HORIZONTAL**




**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.479 | 31.19 | PK | 35.8 | -27.1 | 0 | 39.89 | - | - | 74 | -34.11 | - | - | 0-360 | 150 | H |
| 4 | * 11.216 | 26.32 | PK | 38.4 | -22.5 | 0 | 42.22 | - | - | 74 | -31.78 | - | - | 0-360 | 150 | H |
| 5 | 16.831 | 25.15 | PK | 41.5 | -18.4 | 0 | 48.25 | - | - | - | - | 68.2 | -19.95 | 0-360 | 150 | H |
| 2 | * 7.479 | 34.4 | PK | 35.8 | -27.1 | 0 | 43.1 | - | - | 74 | -30.9 | - | - | 0-360 | 250 | V |
| 3 | * 11.227 | 26.39 | PK | 38.4 | -22.5 | 0 | 42.29 | - | - | 74 | -31.71 | - | - | 0-360 | 150 | V |
| 6 | 16.833 | 24.88 | PK | 41.5 | -18.4 | 0 | 47.98 | - | - | - | - | 68.2 | -20.22 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.48 | 41.51 | PK-U | 35.8 | -27.2 | 0 | 50.11 | - | - | 74 | -23.89 | - | - | 165 | 257 | H |
| * 7.48 | 30.97 | ADR | 35.8 | -27.2 | 0 | 39.57 | 54 | -14.43 | - | - | - | - | 165 | 257 | H |
| * 7.48 | 42.6 | PK-U | 35.8 | -27.2 | 0 | 51.2 | - | - | 74 | -22.8 | - | - | 287 | 107 | V |
| * 7.48 | 34.68 | ADR | 35.8 | -27.2 | 0 | 43.28 | 54 | -10.72 | - | - | - | - | 287 | 107 | 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


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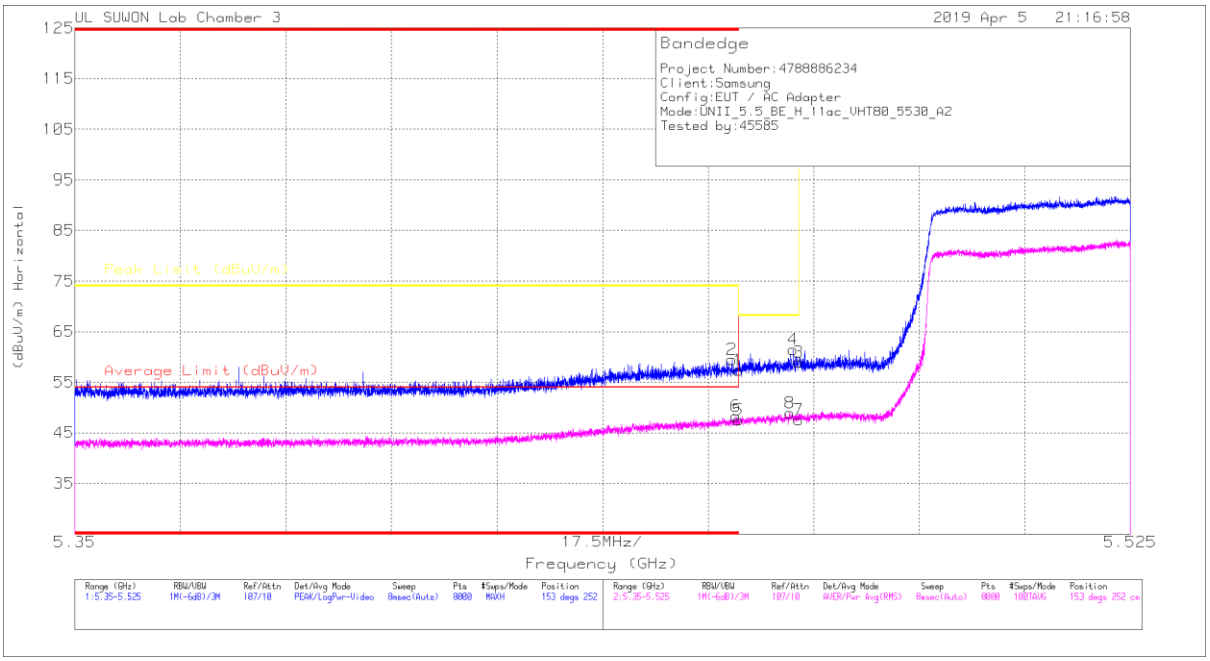
## 11.3.12. TX ABOVE 1GHz 802.11ac VHT80 1Tx ANT2 IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

### HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 41.07 | Pk | 34.7 | -18.4 | 0 | 57.37 | - | - | 74 | -16.63 | 153 | 252 | H |
| 2 | * 5.459 | 43.32 | Pk | 34.7 | -18.5 | 0 | 59.52 | - | - | 74 | -14.48 | 153 | 252 | H |
| 3 | 5.47 | 42.79 | Pk | 34.7 | -18.5 | 0 | 58.99 | - | - | 68.2 | -9.21 | 153 | 252 | H |
| 4 | 5.469 | 45.25 | Pk | 34.7 | -18.5 | 0 | 61.45 | - | - | 68.2 | -6.75 | 153 | 252 | H |
| 5 | * 5.46 | 31.88 | RMS | 34.7 | -19 | 0 | 47.58 | 54 | -6.42 | - | - | 153 | 252 | H |
| 6 | * 5.46 | 32.62 | RMS | 34.7 | -19 | 0 | 48.32 | 54 | -5.68 | - | - | 153 | 252 | H |
| 7 | 5.47 | 31.81 | RMS | 34.7 | -18.9 | 0 | 47.61 | - | - | - | - | 153 | 252 | H |
| 8 | 5.469 | 33.09 | RMS | 34.7 | -18.9 | 0 | 48.89 | - | - | - | - | 153 | 252 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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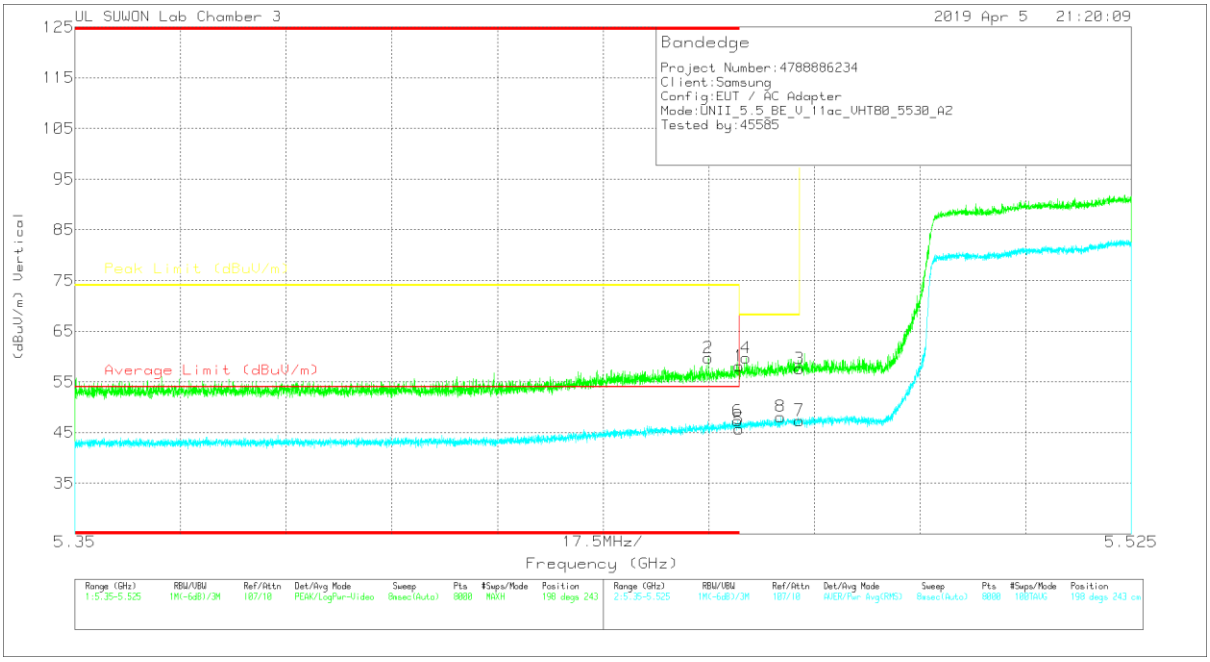
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (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 | 41.82 | Pk | 34.7 | -18.4 | 0 | 58.12 | - | - | 74 | -15.88 | 198 | 243 | V |
| 2 | * 5.455 | 43.44 | Pk | 34.7 | -18.4 | 0 | 59.74 | - | - | 74 | -14.26 | 198 | 243 | V |
| 3 | 5.47 | 41.44 | Pk | 34.7 | -18.5 | 0 | 57.64 | - | - | 68.2 | -10.56 | 198 | 243 | V |
| 4 | 5.461 | 43.44 | Pk | 34.7 | -18.4 | 0 | 59.74 | - | - | 68.2 | -8.46 | 198 | 243 | V |
| 5 | * 5.46 | 29.95 | RMS | 34.7 | -19 | 0 | 45.65 | 54 | -8.35 | - | - | 198 | 243 | V |
| 6 | * 5.46 | 31.61 | RMS | 34.7 | -19 | 0 | 47.31 | 54 | -6.69 | - | - | 198 | 243 | V |
| 7 | 5.47 | 31.57 | RMS | 34.7 | -18.9 | 0 | 47.37 | - | - | - | - | 198 | 243 | V |
| 8 | 5.467 | 32.32 | RMS | 34.7 | -18.9 | 0 | 48.12 | - | - | - | - | 198 | 243 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection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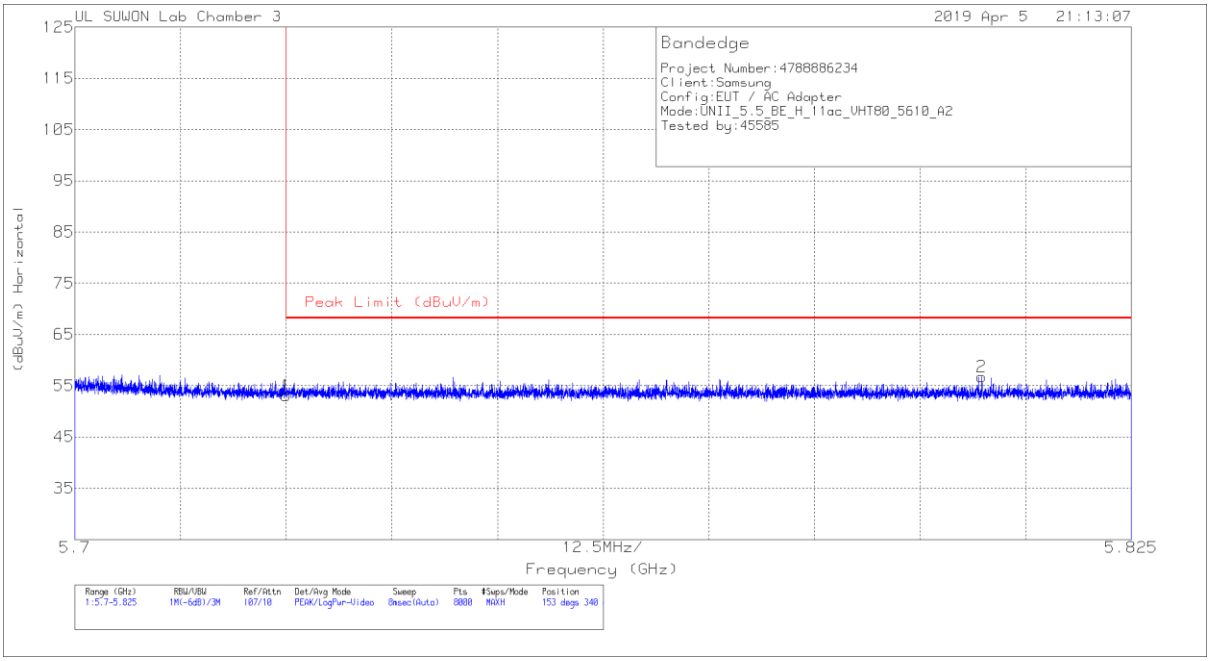
# AUTHORIZED BANDEDGE (HIGH CHANNEL)

## HORIZONTAL PEAK AND AVERAGE DATA




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 36.21 | Pk | 34.8 | -17.9 | 0 | 53.11 | 68.2 | -15.09 | 153 | 340 | H |
| 2 | 5.807 | 39.68 | Pk | 34.9 | -17.8 | 0 | 56.78 | 68.2 | -11.42 | 153 | 340 | H |

Pk - Peak detector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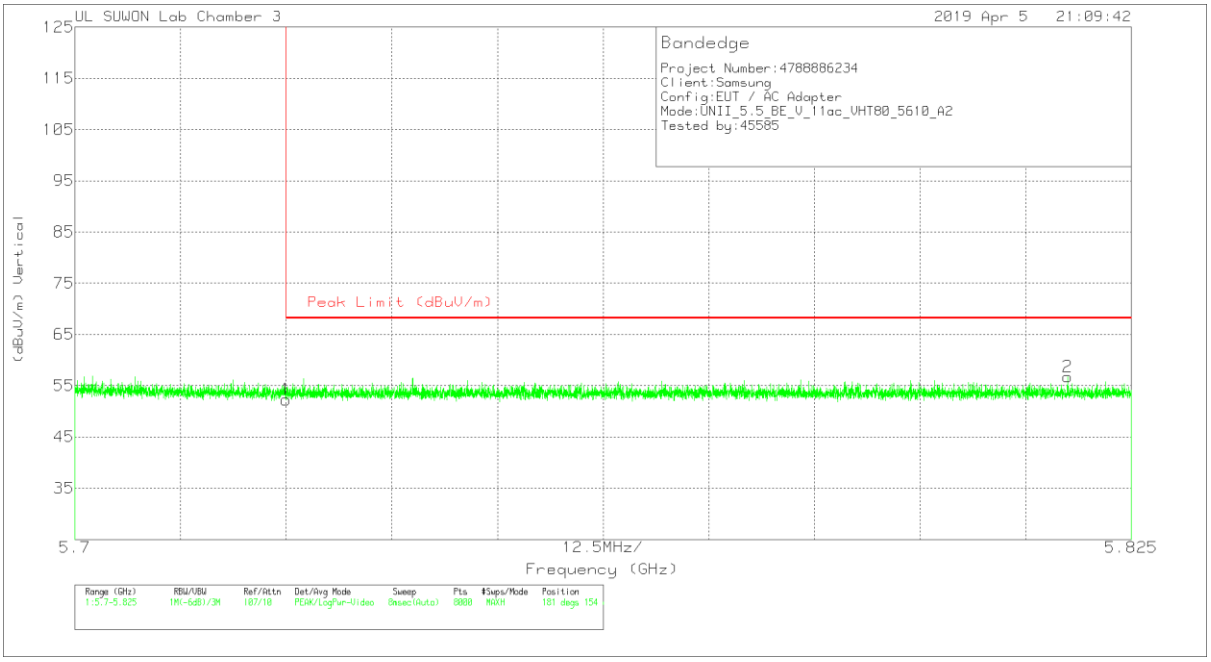
## VERTICAL PEAK AND AVERAGE DATA




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00205959 | 10dB[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | 35.37 | Pk | 34.8 | -17.9 | 0 | 52.27 | 68.2 | -15.93 | 181 | 154 | V |
| 2 | 5.817 | 39.61 | Pk | 34.9 | -17.8 | 0 | 56.71 | 68.2 | -11.49 | 181 | 154 | V |

Pk - Peak detector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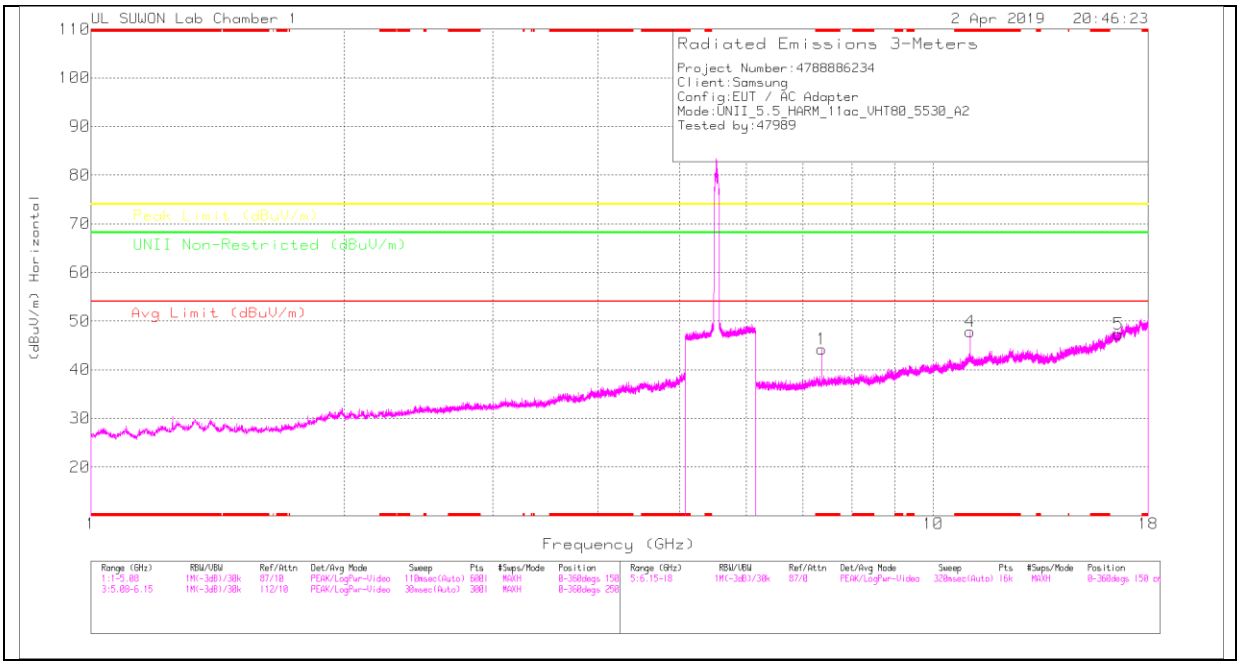
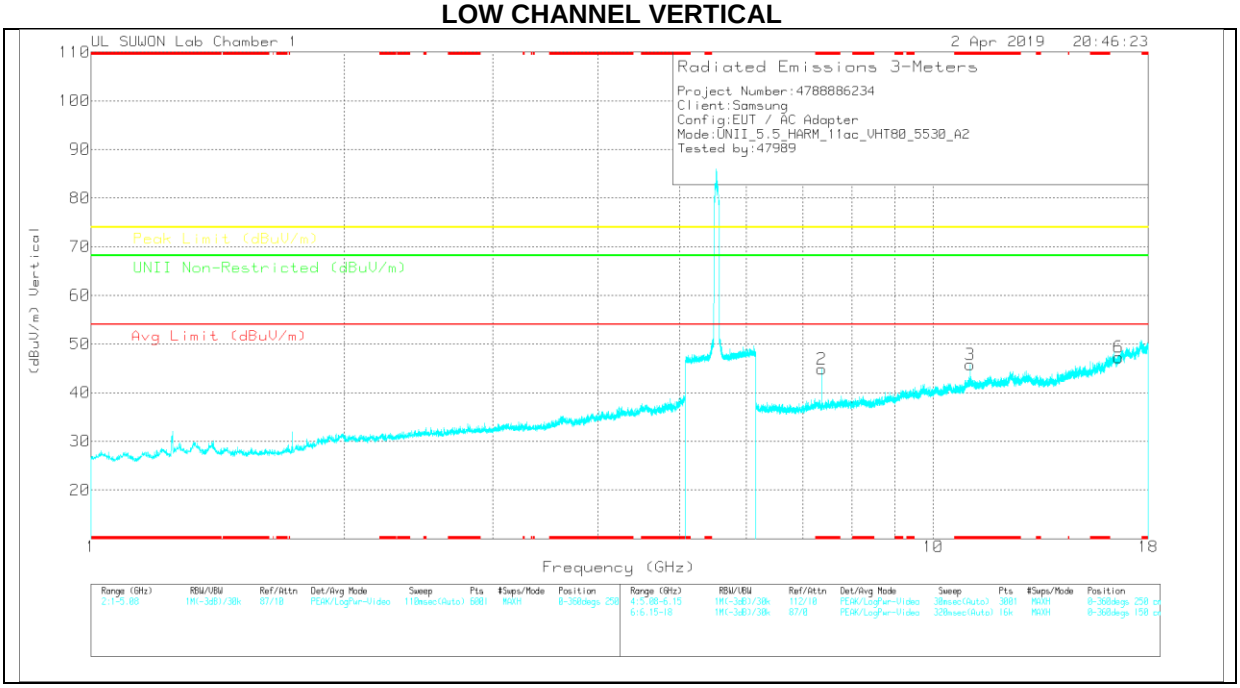
# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL HORIZONTAL




## LOW CHANNEL VERTICAL




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.373 | 35.85 | PK | 35.8 | -27.5 | 0 | 44.15 | - | - | 74 | -29.85 | - | - | 0-360 | 150 | H |
| 4 | * 11.06 | 31.76 | PK | 38.2 | -22.1 | 0 | 47.86 | - | - | 74 | -26.14 | - | - | 0-360 | 150 | H |
| 5 | 16.588 | 25.14 | PK | 41 | -18.8 | 0 | 47.34 | - | - | - | - | 68.2 | -20.86 | 0-360 | 250 | H |
| 2 | * 7.373 | 36.61 | PK | 35.8 | -27.5 | 0 | 44.91 | - | - | 74 | -29.09 | - | - | 0-360 | 150 | V |
| 3 | * 11.059 | 29.66 | PK | 38.2 | -22.1 | 0 | 45.76 | - | - | 74 | -28.24 | - | - | 0-360 | 150 | V |
| 6 | 16.591 | 25.05 | PK | 41 | -18.8 | 0 | 47.25 | - | - | - | - | 68.2 | -20.95 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.373 | 43.97 | PK-U | 35.8 | -27.5 | 0 | 52.27 | - | - | 74 | -21.73 | - | - | 243 | 207 | H |
| * 7.373 | 37.02 | ADR | 35.8 | -27.5 | 0 | 45.32 | 54 | -8.68 | - | - | - | - | 243 | 207 | H |
| * 7.373 | 43.2 | PK-U | 35.8 | -27.5 | 0 | 51.5 | - | - | 74 | -22.5 | - | - | 184 | 163 | V |
| * 7.373 | 36.26 | ADR | 35.8 | -27.5 | 0 | 44.56 | 54 | -9.44 | - | - | - | - | 184 | 163 | V |
| * 11.06 | 38.52 | PK-U | 38.2 | -22.1 | 0 | 54.62 | - | - | 74 | -19.38 | - | - | 212 | 152 | V |
| * 11.06 | 29.22 | ADR | 38.2 | -22.1 | 0 | 45.32 | 54 | -8.68 | - | - | - | - | 212 | 152 | V |
| * 11.06 | 40.12 | PK-U | 38.2 | -22.1 | 0 | 56.22 | - | - | 74 | -17.78 | - | - | 220 | 161 | H |
| * 11.06 | 32.36 | ADR | 38.2 | -22.1 | 0 | 48.46 | 54 | -5.54 | - | - | - | - | 220 | 161 | 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


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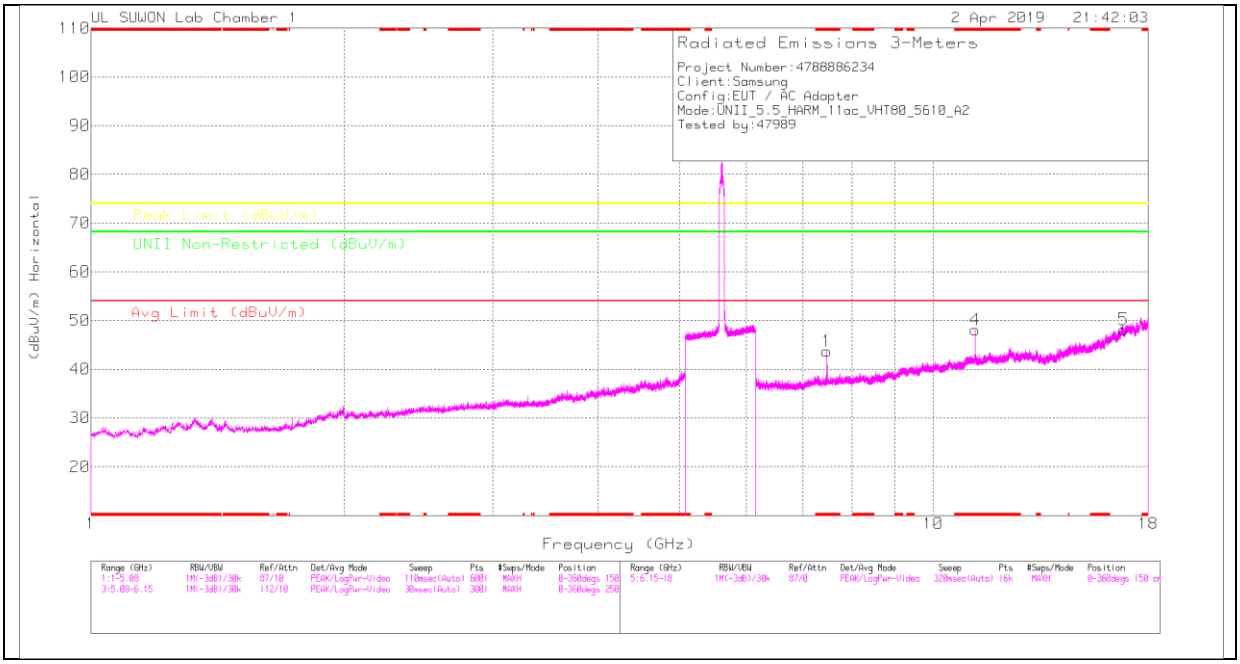
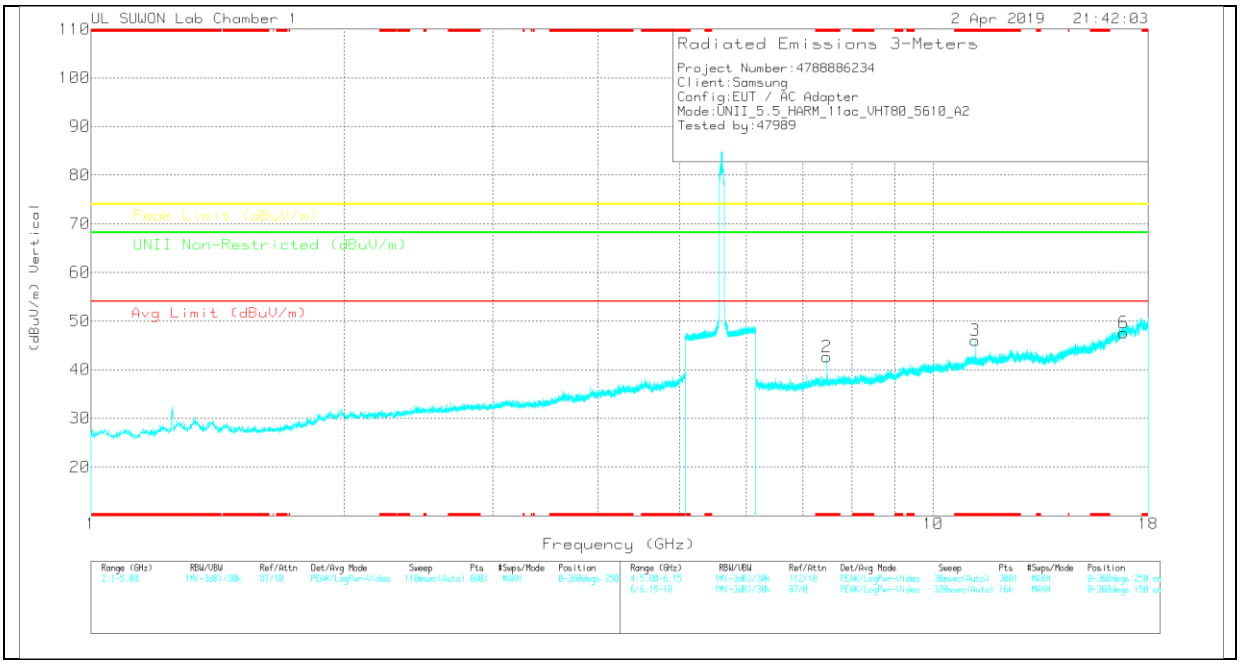
**HIGH CHANNEL HORIZONTAL**




**HIGH CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.48 | 35.09 | PK | 35.8 | -27.2 | 0 | 43.69 | - | - | 74 | -30.31 | - | - | 0-360 | 150 | H |
| 4 | * 11.22 | 32.16 | PK | 38.4 | -22.5 | 0 | 48.06 | - | - | 74 | -25.94 | - | - | 0-360 | 150 | H |
| 5 | 16.829 | 25.05 | PK | 41.5 | -18.4 | 0 | 48.15 | - | - | - | - | 68.2 | -20.05 | 0-360 | 250 | H |
| 2 | * 7.479 | 33.99 | PK | 35.8 | -27.1 | 0 | 42.69 | - | - | 74 | -31.31 | - | - | 0-360 | 150 | V |
| 3 | * 11.22 | 30.1 | PK | 38.4 | -22.5 | 0 | 46 | - | - | 74 | -28 | - | - | 0-360 | 150 | V |
| 6 | 16.826 | 24.43 | PK | 41.5 | -18.3 | 0 | 47.63 | - | - | - | - | 68.2 | -20.57 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.48 | 43.33 | PK-U | 35.8 | -27.2 | 0 | 51.93 | - | - | 74 | -22.07 | - | - | 260 | 175 | H |
| * 7.48 | 36.75 | ADR | 35.8 | -27.2 | 0 | 45.35 | 54 | -8.65 | - | - | - | - | 260 | 175 | H |
| * 7.48 | 41.47 | PK-U | 35.8 | -27.2 | 0 | 50.07 | - | - | 74 | -23.93 | - | - | 210 | 165 | V |
| * 7.48 | 32.55 | ADR | 35.8 | -27.2 | 0 | 41.15 | 54 | -12.85 | - | - | - | - | 210 | 165 | V |
| * 11.22 | 38.82 | PK-U | 38.4 | -22.5 | 0 | 54.72 | - | - | 74 | -19.28 | - | - | 212 | 157 | V |
| * 11.22 | 29.43 | ADR | 38.4 | -22.5 | 0 | 45.33 | 54 | -8.67 | - | - | - | - | 212 | 157 | V |
| * 11.22 | 38.76 | PK-U | 38.4 | -22.5 | 0 | 54.66 | - | - | 74 | -19.34 | - | - | 197 | 133 | H |
| * 11.22 | 29.79 | ADR | 38.4 | -22.5 | 0 | 45.69 | 54 | -8.31 | - | - | - | - | 197 | 133 | 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


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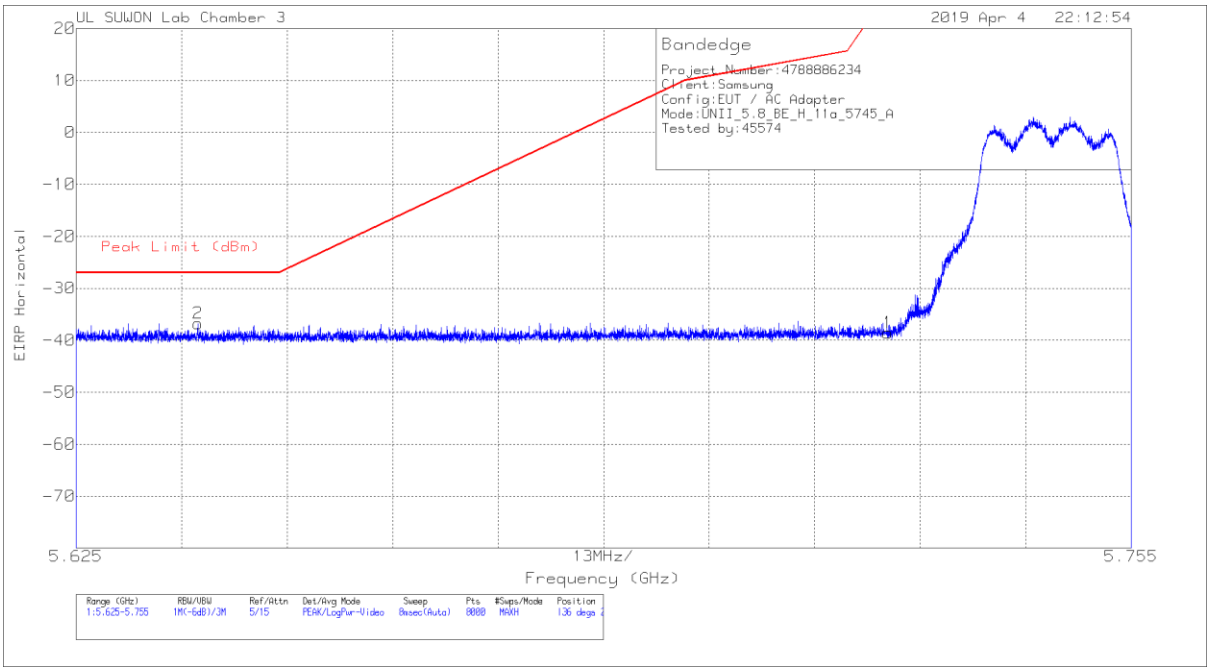
## 11.4. 5.8 GHz

### 11.4.1. TX ABOVE 1GHz 802.11a 2Tx CDD MODE IN THE 5.8GHz BAND BANDEDGE (LOW CHANNEL)

**HORIZONTAL PEAK PLOT**




Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 3117_00205959 | 10dB[dB] | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | -67.26 | Pk | 34.8 | -17.9 | 11.8 | -38.56 | 27 | -65.56 | 136 | 213 | H |
| 2 | 5.64 | -64.96 | Pk | 34.7 | -18.3 | 11.8 | -36.76 | -27 | -9.76 | 136 | 213 | H |

Pk - Peak detector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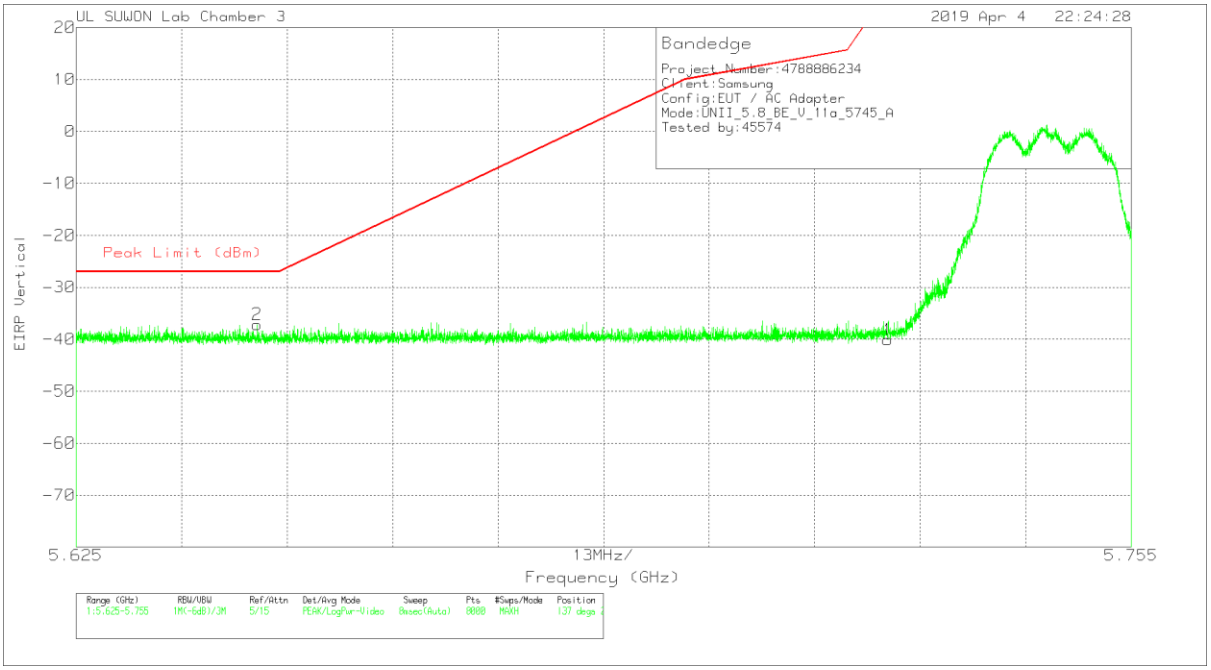
**VERTICAL PEAK PLOT**




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 3117_00205959 | 10dB[dB] | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.725 | -68.78 | Pk | 34.8 | -17.9 | 11.8 | -40.08 | 27 | -67.08 | 137 | 235 | V |
| 2 | 5.647 | -65.46 | Pk | 34.7 | -18.2 | 11.8 | -37.16 | -27 | -10.16 | 137 | 235 | V |

Pk - Peak detector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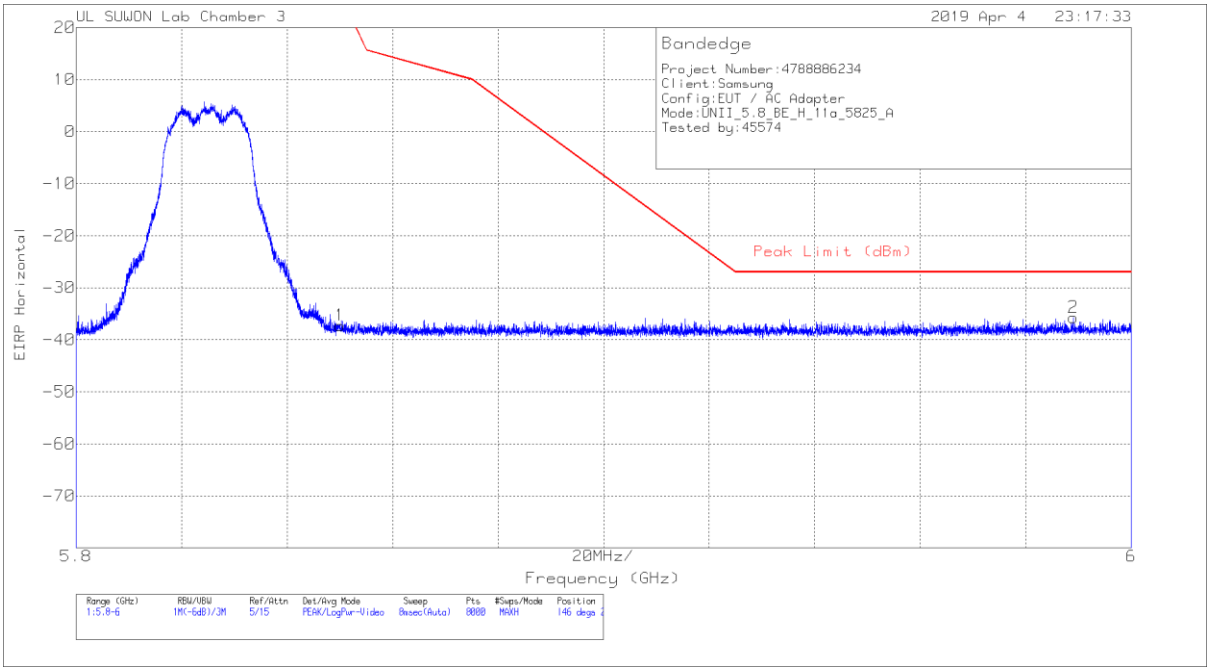
# BANDEDGE (HIGH CHANNEL)

## HORIZONTAL PEAK PLOT




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 3117_00205959 | 10dB[dB] | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -66.35 | Pk | 35 | -17.7 | 11.8 | -37.25 | 26.99 | -64.24 | 146 | 245 | H |
| 2 | 5.989 | -65.01 | Pk | 35.1 | -17.6 | 11.8 | -35.71 | -27 | -8.71 | 146 | 245 | H |

Pk - Peak detector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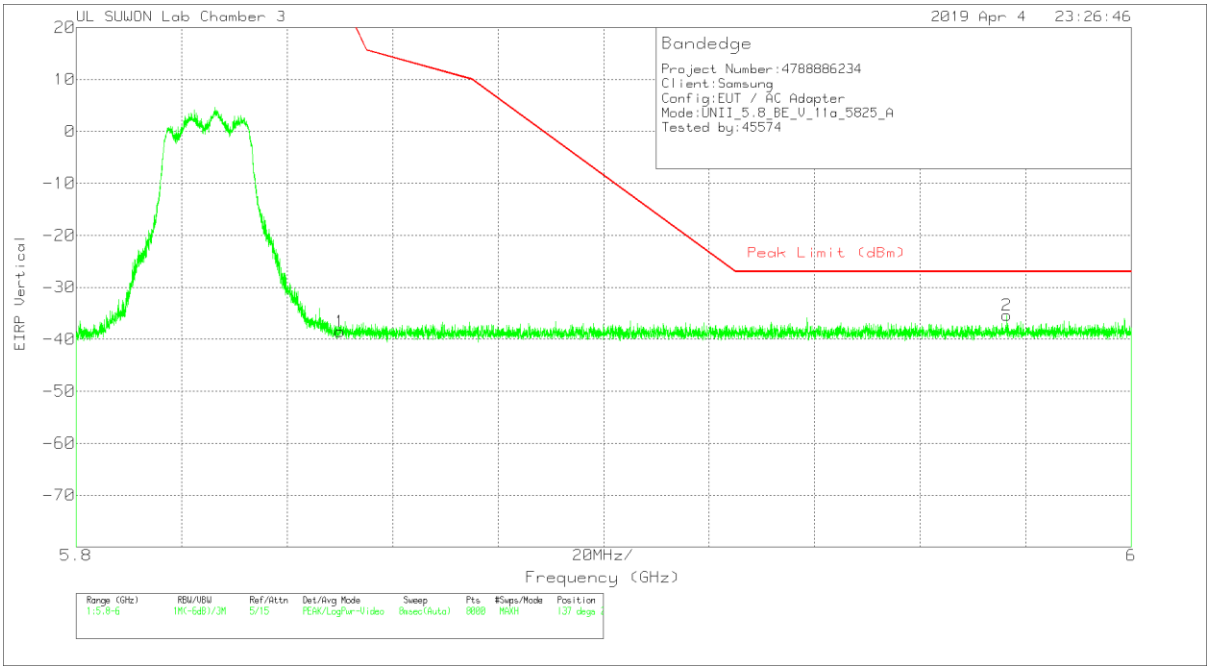
**VERTICAL PEAK PLOT**




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | 3117_00205959 | 10dB[dB] | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.85 | -67.62 | Pk | 35 | -17.7 | 11.8 | -38.52 | 26.99 | -65.51 | 137 | 232 | V |
| 2 | 5.976 | -64.68 | Pk | 35.1 | -17.6 | 11.8 | -35.38 | -27 | -8.38 | 137 | 232 | V |

Pk - Peak detector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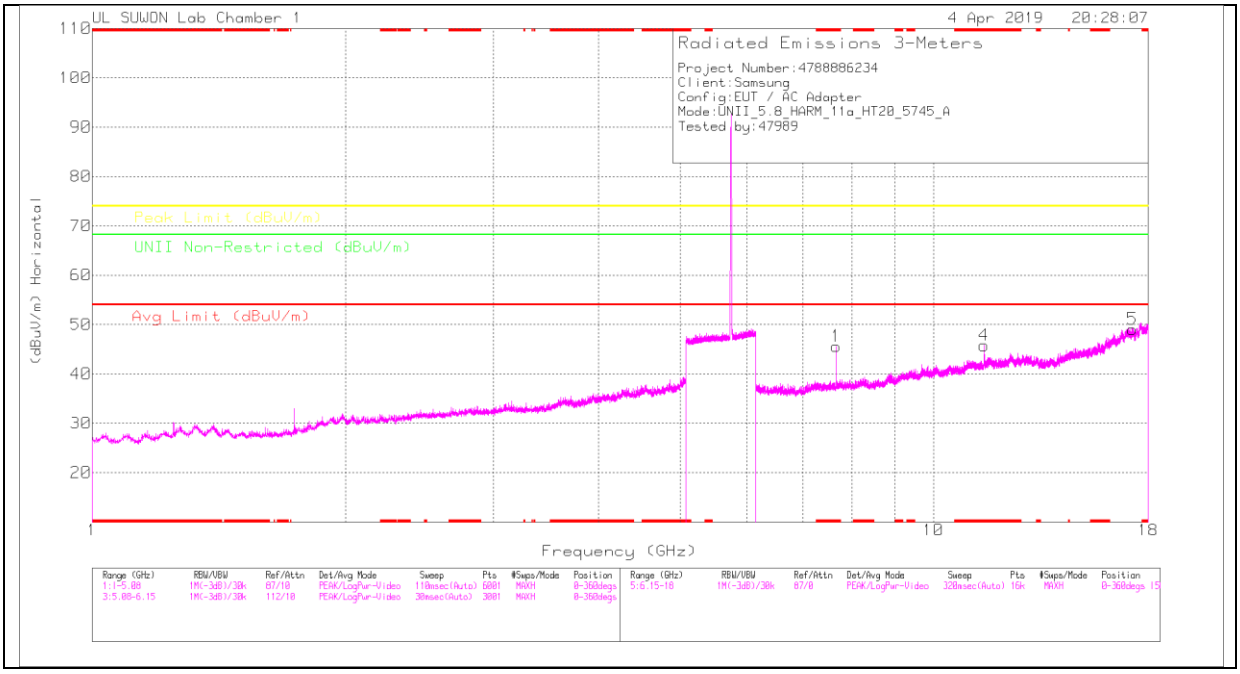
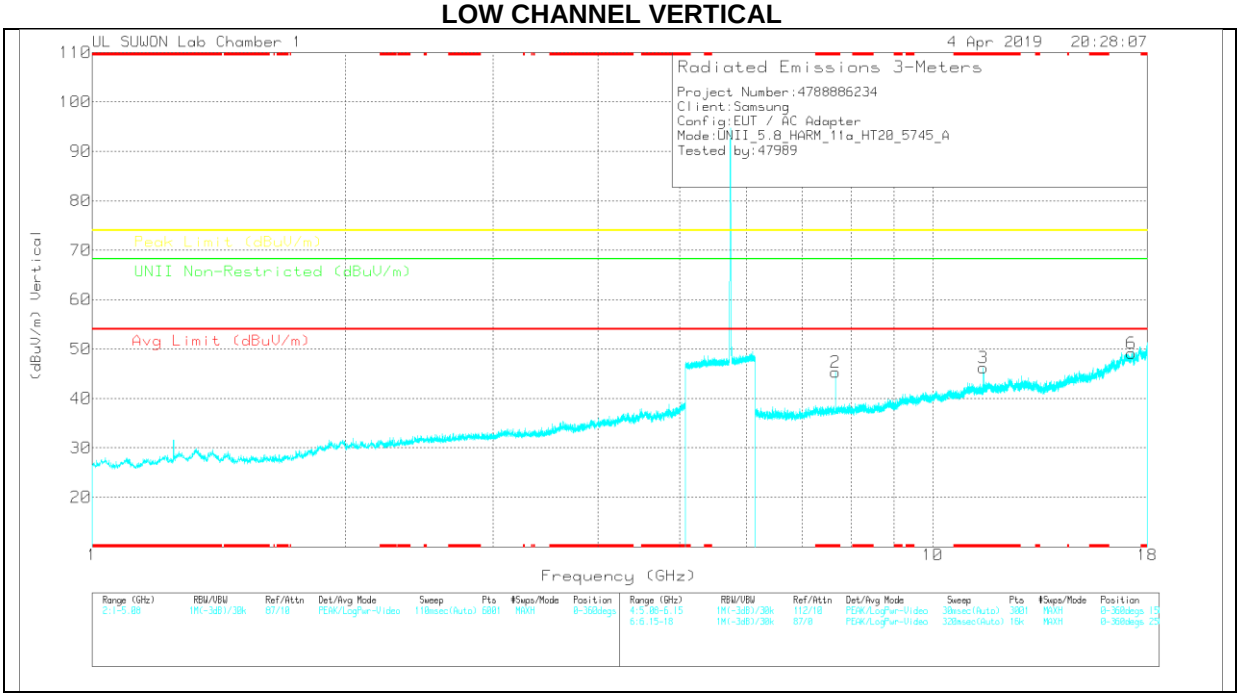
**LOW CHANNEL HORIZONTAL**




**LOW CHANNEL VERTICAL**




Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.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## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 7.66 | 36.7 | PK | 35.8 | -26.9 | 0 | 45.6 | - | - | 74 | -28.4 | - | - | 0-360 | 150 | H |
| 4 | * 11.49 | 29.58 | PK | 38.5 | -22.3 | 0 | 45.78 | - | - | 74 | -28.22 | - | - | 0-360 | 150 | H |
| 5 | 17.239 | 24.46 | PK | 41.3 | -16.7 | 0 | 49.06 | - | - | - | - | 68.2 | -19.14 | 0-360 | 250 | H |
| 2 | * 7.659 | 36.42 | PK | 35.8 | -26.9 | 0 | 45.32 | - | - | 74 | -28.68 | - | - | 0-360 | 250 | V |
| 3 | * 11.49 | 29.99 | PK | 38.5 | -22.3 | 0 | 46.19 | - | - | 74 | -27.81 | - | - | 0-360 | 150 | V |
| 6 | 17.239 | 24.52 | PK | 41.3 | -16.7 | 0 | 49.12 | - | - | - | - | 68.2 | -19.08 | 0-360 | 250 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 6GHz_HP[dB] | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | UNII Non-Restricted (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * 7.66 | 42.96 | PK-U | 35.8 | -26.9 | 0 | 51.86 | - | - | 74 | -22.14 | - | - | 115 | 100 | H |
| * 7.66 | 36.42 | ADR | 35.8 | -26.9 | 0 | 45.32 | 54 | -8.68 | - | - | - | - | 115 | 100 | H |
| * 7.66 | 42.39 | PK-U | 35.8 | -26.9 | 0 | 51.29 | - | - | 74 | -22.71 | - | - | 136 | 105 | V |
| * 7.66 | 35.65 | ADR | 35.8 | -26.9 | 0 | 44.55 | 54 | -9.45 | - | - | - | - | 136 | 105 | V |
| * 11.49 | 39.65 | PK-U | 38.5 | -22.3 | 0 | 55.85 | - | - | 74 | -18.15 | - | - | 103 | 129 | H |
| * 11.49 | 28.5 | ADR | 38.5 | -22.3 | 0 | 44.7 | 54 | -9.3 | - | - | - | - | 103 | 129 | H |
| * 11.49 | 43.44 | PK-U | 38.5 | -22.3 | 0 | 59.64 | - | - | 74 | -14.36 | - | - | 164 | 168 | V |
| * 11.49 | 30.67 | ADR | 38.5 | -22.3 | 0 | 46.87 | 54 | -7.13 | - | - | - | - | 164 | 168 | 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


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