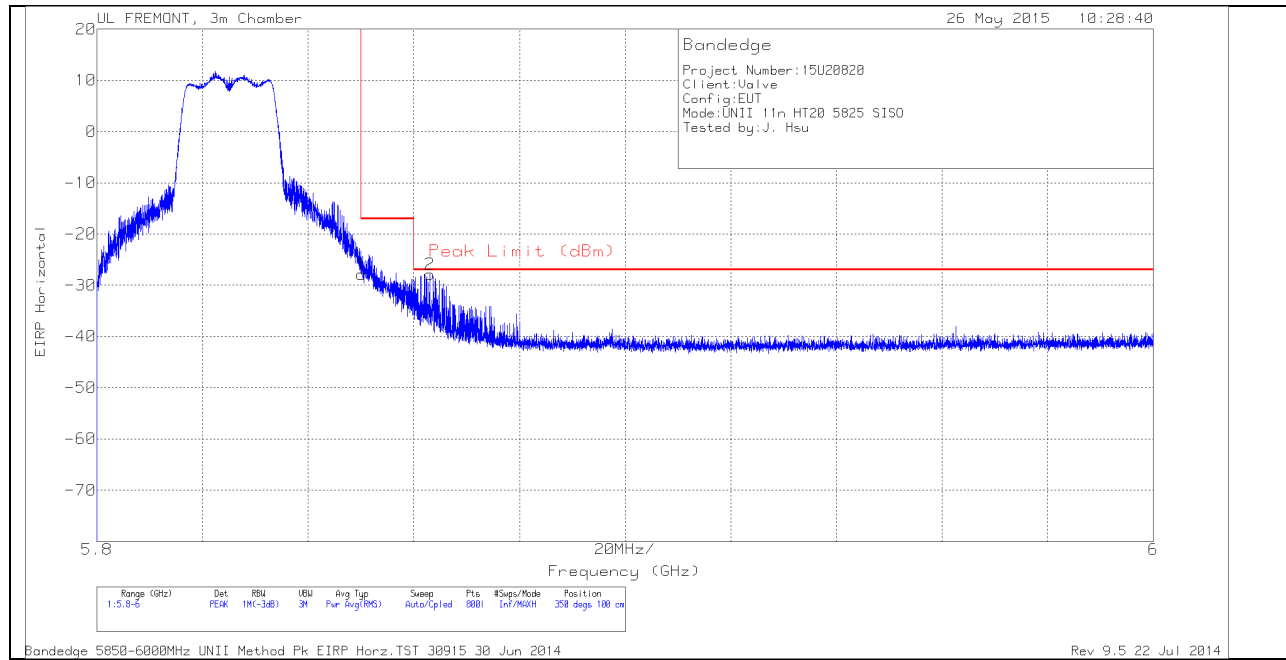


## AUTHORIZED BANDEDGE (HIGH CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

#### Trace Markers

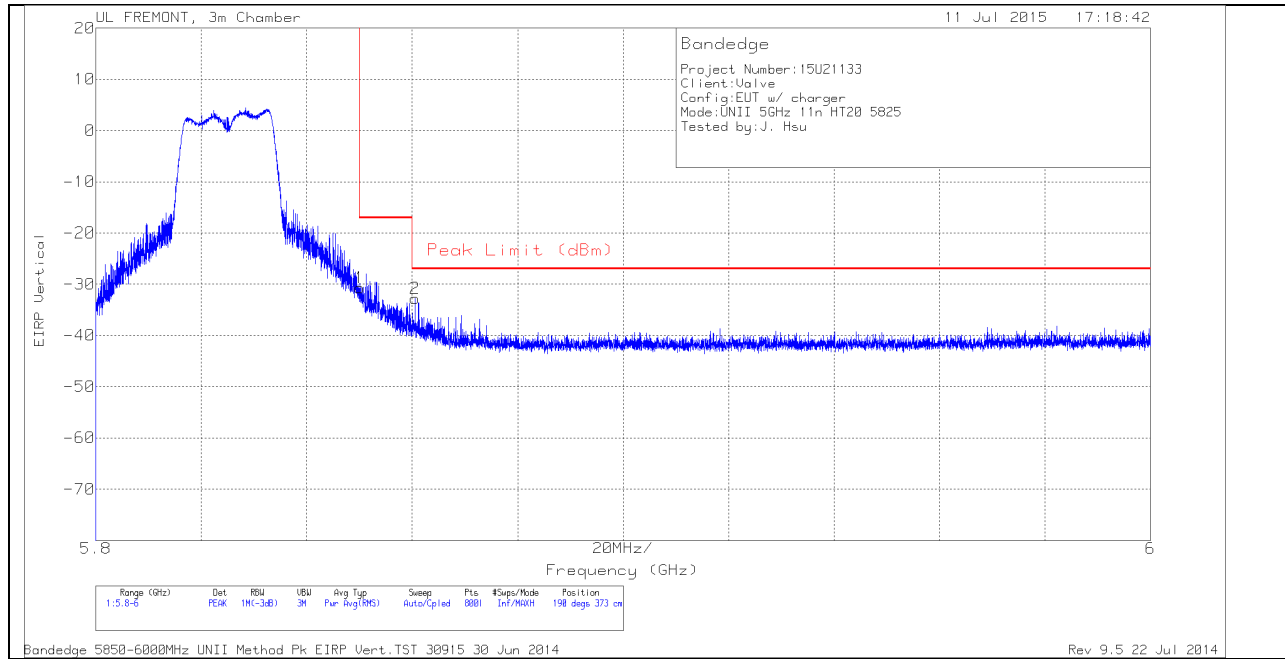
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -53.24              | PK  | 34.9           | -21.3                  | 11.8                   | -27.84                 | -17              | -10.84         | 350            | 100         | H        |
| 2      | 5.863           | -53.26              | PK  | 34.9           | -21.3                  | 11.8                   | -27.86                 | -27              | -.86           | 350            | 100         | H        |

PK - Peak detector

Bandedge 5850-6000MHz UNII Method Pk EIRP Horz.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

### VERTICAL PEAK AND AVERAGE PLOT



### VERTICAL DATA

#### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -56.81              | PK  | 34.9           | -20.6                  | 11.8                   | -30.71                 | -17              | -13.71         | 190            | 373         | V        |
| 2      | 5.861           | -59.02              | PK  | 34.9           | -20.5                  | 11.8                   | -32.82                 | -27              | -5.82          | 190            | 373         | V        |

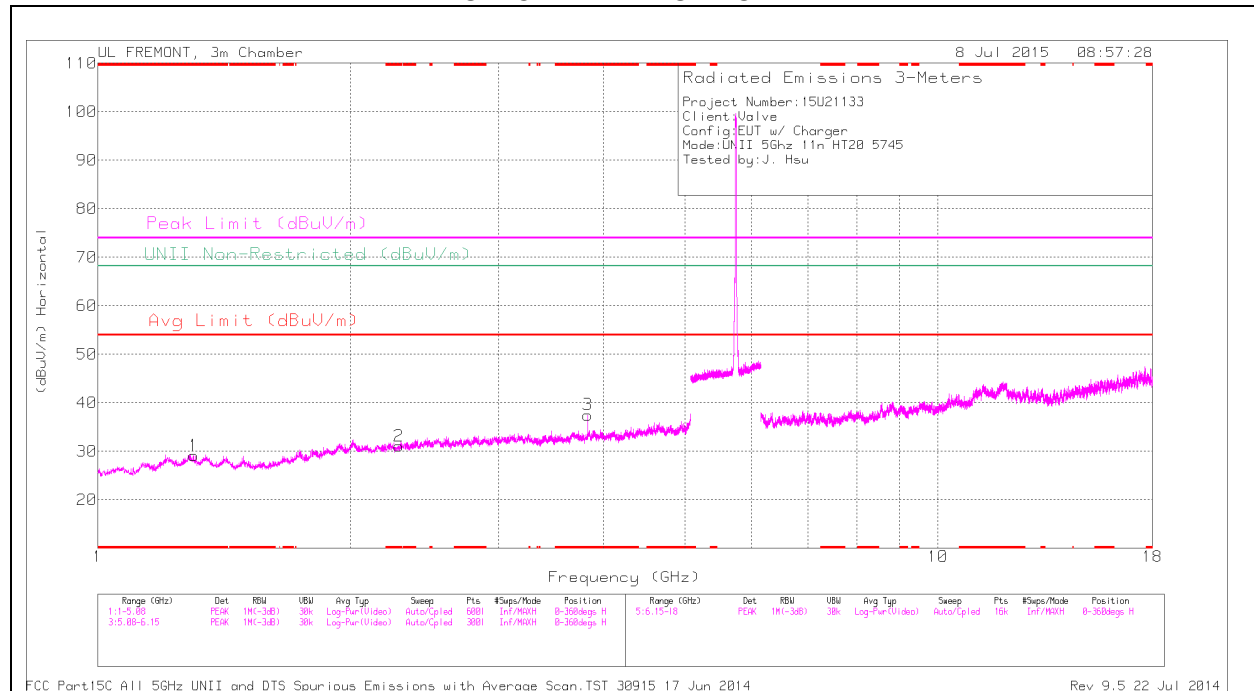
PK - Peak detector

Bandedge 5850-6000MHz UNII Method Pk EIRP Vert.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

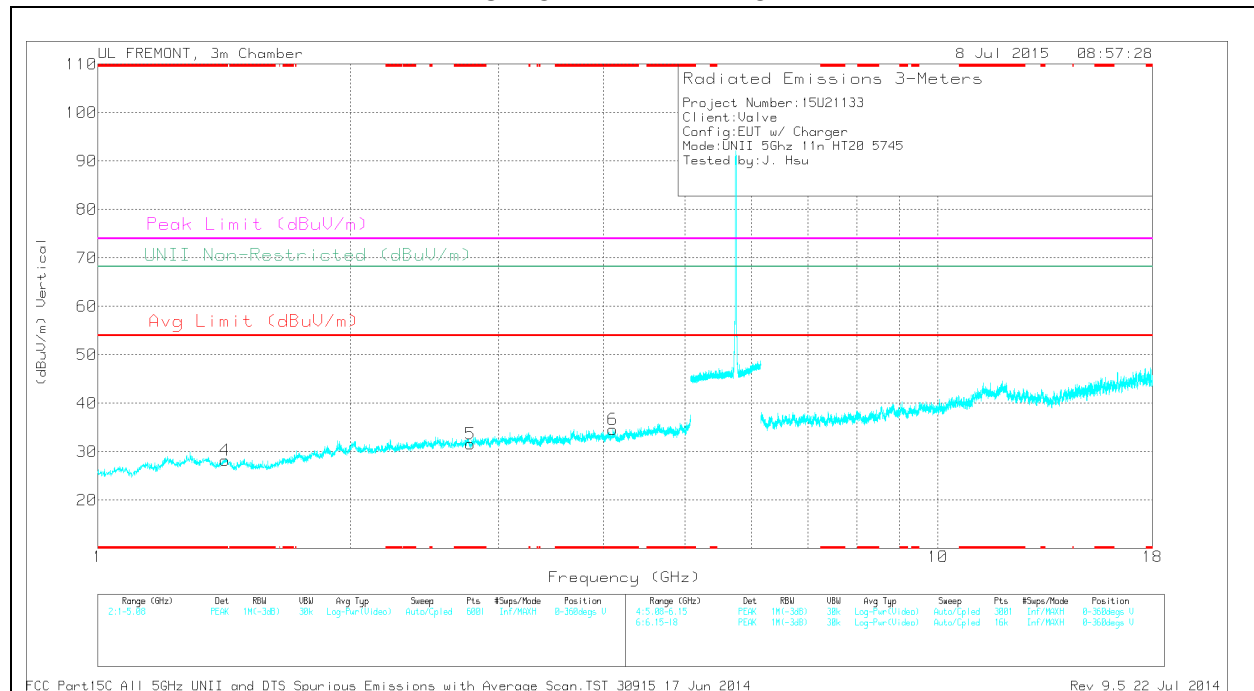
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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      | * 1.301         | 32.27                | PK  | 29.9           | -33                   | 29.17                      | -                  | -           | 74                  | -44.83         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 2.281         | 31.14                | PK  | 31.6           | -31.6                 | 31.14                      | -                  | -           | 74                  | -42.86         | -                            | -              | 0-360          | 200         | H        |
| 3      | * 3.83          | 34.72                | PK  | 33.1           | -30.3                 | 37.52                      | -                  | -           | 74                  | -36.48         | -                            | -              | 0-360          | 200         | H        |
| 4      | * 1.417         | 31.89                | PK  | 28.5           | -32.1                 | 28.29                      | -                  | -           | 74                  | -45.71         | -                            | -              | 0-360          | 100         | V        |
| 5      | * 2.775         | 30.77                | PK  | 32.5           | -31.6                 | 31.67                      | -                  | -           | 74                  | -42.33         | -                            | -              | 0-360          | 200         | V        |
| 6      | * 4.101         | 31.52                | PK  | 33.3           | -30.2                 | 34.62                      | -                  | -           | 74                  | -39.38         | -                            | -              | 0-360          | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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 |
|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.301         | 41.79                | PK1 | 29.9           | -33                   | 38.69                      | -                  | -           | 74                  | -35.31         | -                            | -              | 360            | 100         | H        |
| * 1.299         | 29.9                 | AD1 | 29.9           | -33                   | 26.8                       | 54                 | -27.2       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.28          | 40.93                | PK1 | 31.6           | -31.6                 | 40.93                      | -                  | -           | 74                  | -33.07         | -                            | -              | 360            | 100         | H        |
| * 2.28          | 29.3                 | AD1 | 31.6           | -31.6                 | 29.3                       | 54                 | -24.7       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.831         | 42.11                | PK1 | 33.1           | -30.3                 | 44.91                      | -                  | -           | 74                  | -29.09         | -                            | -              | 302            | 290         | H        |
| * 3.83          | 33.2                 | AD1 | 33.1           | -30.3                 | 36                         | 54                 | -18         | -                   | -              | -                            | -              | 302            | 290         | H        |
| * 1.419         | 41.56                | PK1 | 28.5           | -32.1                 | 37.96                      | -                  | -           | 74                  | -36.04         | -                            | -              | 302            | 290         | V        |
| * 1.418         | 30.31                | AD1 | 28.5           | -32.1                 | 26.71                      | 54                 | -27.29      | -                   | -              | -                            | -              | 302            | 290         | V        |
| * 2.777         | 40.46                | PK1 | 32.5           | -31.7                 | 41.26                      | -                  | -           | 74                  | -32.74         | -                            | -              | 302            | 290         | V        |
| * 2.773         | 28.84                | AD1 | 32.5           | -31.6                 | 29.74                      | 54                 | -24.26      | -                   | -              | -                            | -              | 302            | 290         | V        |
| * 4.101         | 40.2                 | PK1 | 33.3           | -30.2                 | 43.3                       | -                  | -           | 74                  | -30.7          | -                            | -              | 302            | 290         | V        |
| * 4.1           | 28.91                | AD1 | 33.3           | -30.2                 | 32.01                      | 54                 | -21.99      | -                   | -              | -                            | -              | 302            | 290         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

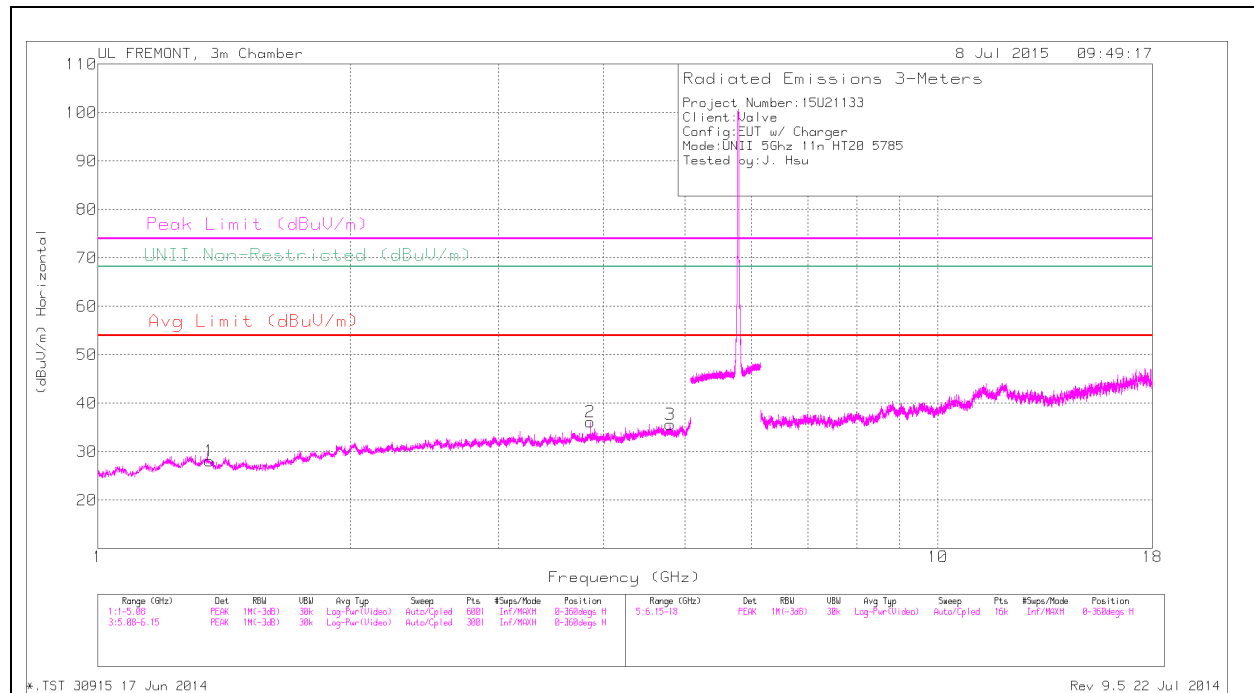
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

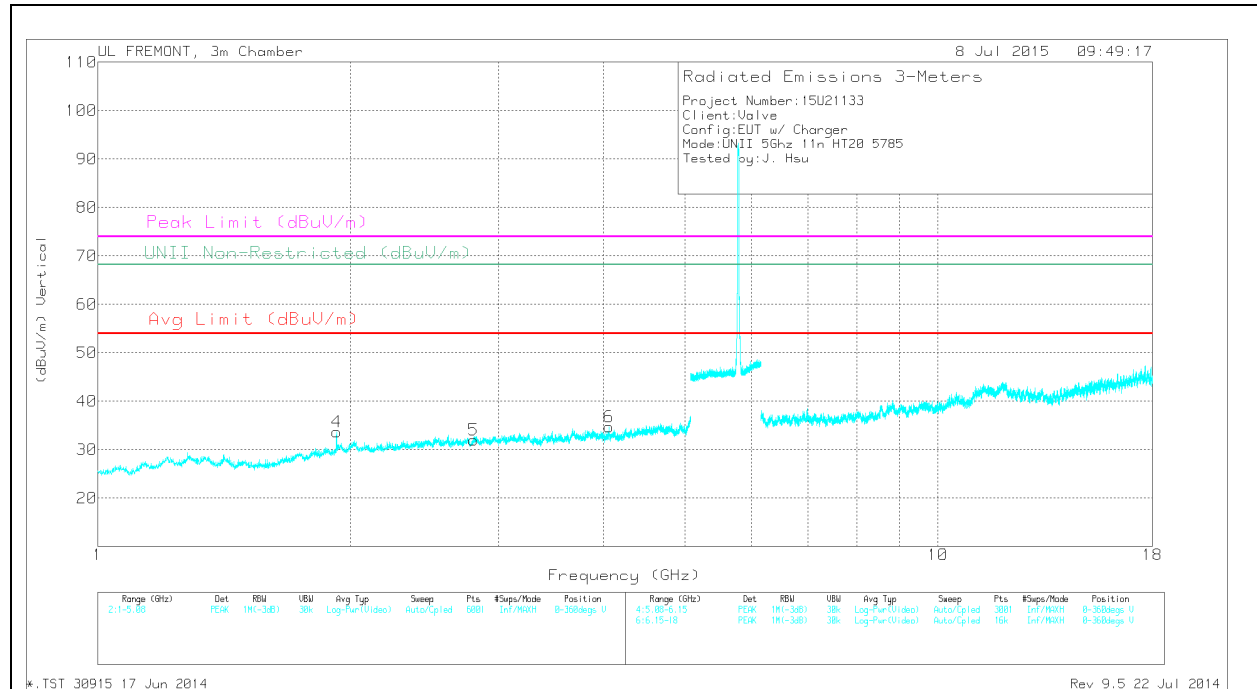
Rev 9.5 22 Jul 2014

MID CHANNEL HORIZONTAL



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

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.

## MID CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr /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      | 1.358           | 31.6                 | PK  | 29.2           | -32.7                | 28.1                       | -                  | -           | 74                  | -45.9          | -                            | -              | 0-360          | 200         | H        |
| 4      | 1.923           | 34.44                | PK  | 31.2           | -31.9                | 33.74                      | -                  | -           | -                   | -              | 68.2                         | -34.46         | 0-360          | 200         | V        |
| 5      | 2.8             | 31.01                | PK  | 32.6           | -31.6                | 32.01                      | -                  | -           | 74                  | -41.99         | -                            | -              | 0-360          | 200         | V        |
| 2      | 3.857           | 33.21                | PK  | 33.1           | -30.2                | 36.11                      | -                  | -           | 74                  | -37.89         | -                            | -              | 0-360          | 100         | H        |
| 6      | 4.058           | 31.72                | PK  | 33.3           | -30.3                | 34.72                      | -                  | -           | 74                  | -39.28         | -                            | -              | 0-360          | 200         | V        |
| 3      | 4.801           | 30.94                | PK  | 34             | -29.3                | 35.64                      | -                  | -           | 74                  | -38.36         | -                            | -              | 0-360          | 200         | H        |

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr /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 |
|-----------------|----------------------|-----|----------------|----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1.357           | 41.52                | PK1 | 29.2           | -32.7                | 38.02                      | -                  | -           | 74                  | -35.98         | -                            | -              | 360            | 100         | H        |
| 1.357           | 29.86                | AD1 | 29.2           | -32.7                | 26.36                      | 54                 | -27.64      | -                   | -              | -                            | -              | 360            | 100         | H        |
| 1.922           | 41.31                | PK1 | 31.2           | -32                  | 40.51                      | -                  | -           | -                   | -              | 68.2                         | -27.69         | 360            | 100         | V        |
| 1.925           | 29.47                | AD1 | 31.2           | -31.9                | 28.77                      | -                  | -           | -                   | -              | -                            | -              | 360            | 100         | V        |
| 2.799           | 41.4                 | PK1 | 32.6           | -31.6                | 42.4                       | -                  | -           | 74                  | -31.6          | -                            | -              | 360            | 100         | V        |
| 2.8             | 29.3                 | AD1 | 32.6           | -31.6                | 30.3                       | 54                 | -23.7       | -                   | -              | -                            | -              | 360            | 100         | V        |
| 3.857           | 40.01                | PK1 | 33.1           | -30.2                | 42.91                      | -                  | -           | 74                  | -31.09         | -                            | -              | 360            | 100         | H        |
| 3.857           | 29.54                | AD1 | 33.1           | -30.2                | 32.44                      | 54                 | -21.56      | -                   | -              | -                            | -              | 360            | 100         | H        |
| 4.056           | 40.7                 | PK1 | 33.3           | -30.2                | 43.8                       | -                  | -           | 74                  | -30.2          | -                            | -              | 360            | 100         | V        |
| 4.058           | 28.85                | AD1 | 33.3           | -30.3                | 31.85                      | 54                 | -22.15      | -                   | -              | -                            | -              | 360            | 100         | V        |
| 4.801           | 39.98                | PK1 | 34             | -29.3                | 44.68                      | -                  | -           | 74                  | -29.32         | -                            | -              | 360            | 100         | H        |
| 4.802           | 28.51                | AD1 | 34             | -29.3                | 33.21                      | 54                 | -20.79      | -                   | -              | -                            | -              | 360            | 100         | H        |

PK1 - KDB789033 Method: Peak

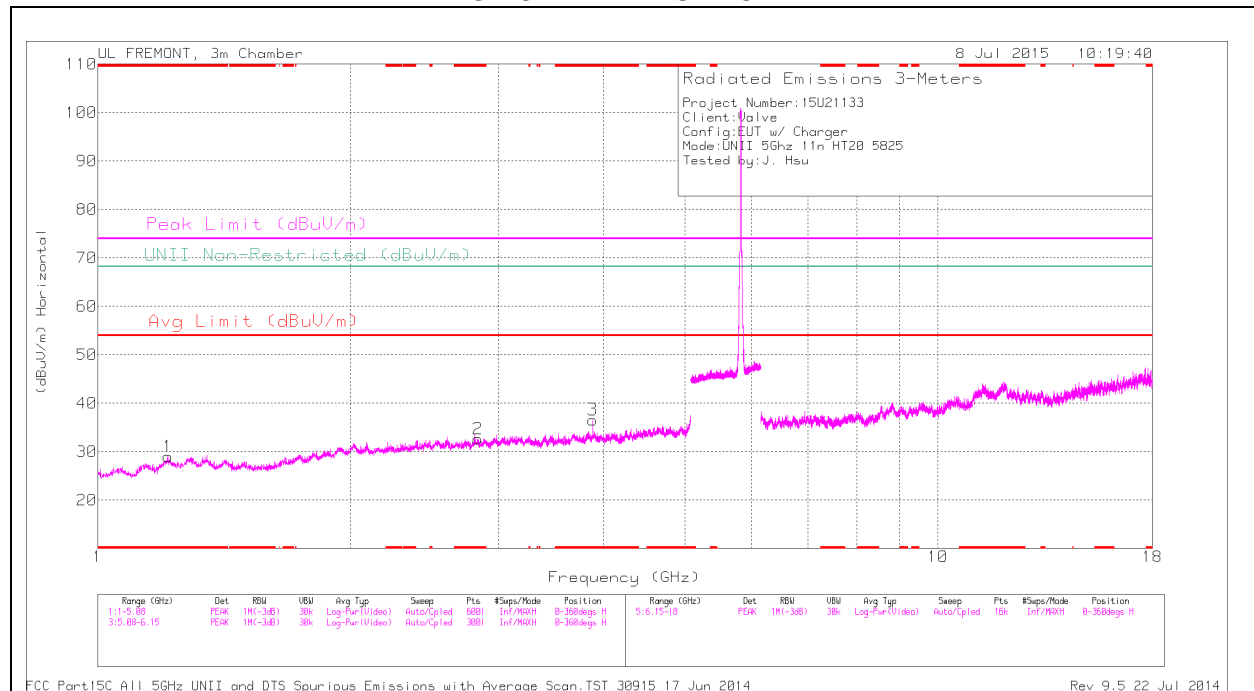
AD1 - KDB789033 Method: AD Primary Power Average

\*.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

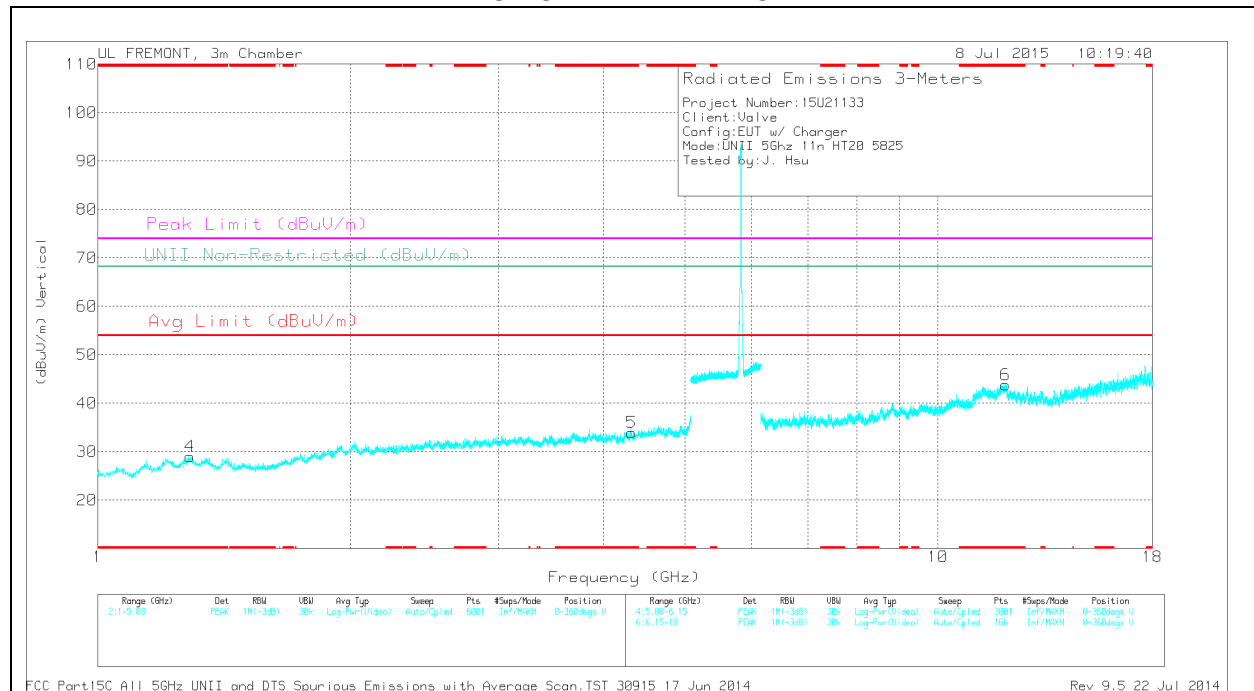


# HIGH CHANNEL HORIZONTAL



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

### 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.

## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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      | * 1.213         | 32.57                | PK  | 29.1           | -32.7                  | 28.97                      | -                  | -           | 74                  | -45.03         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 2.835         | 31.89                | PK  | 32.6           | -31.8                  | 32.69                      | -                  | -           | 74                  | -41.31         | -                            | -              | 0-360          | 200         | H        |
| 3      | * 3.883         | 33.31                | PK  | 33.2           | -29.9                  | 36.61                      | -                  | -           | 74                  | -37.39         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 1.288         | 32.26                | PK  | 29.8           | -33                    | 29.06                      | -                  | -           | 74                  | -44.94         | -                            | -              | 0-360          | 100         | V        |
| 5      | * 4.322         | 29.99                | PK  | 33.5           | -29.6                  | 33.89                      | -                  | -           | 74                  | -40.11         | -                            | -              | 0-360          | 100         | V        |
| 6      | * 12.037        | 28.11                | PK  | 39.1           | -23.4                  | 43.81                      | -                  | -           | 74                  | -30.19         | -                            | -              | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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 |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.213         | 42.14                | PK1 | 29.1           | -32.7                  | 38.54                      | -                  | -           | 74                  | -35.46         | -                            | -              | 360            | 100         | H        |
| * 1.211         | 30.25                | AD1 | 29             | -32.7                  | 26.55                      | 54                 | -27.45      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.835         | 40.57                | PK1 | 32.6           | -31.8                  | 41.37                      | -                  | -           | 74                  | -32.63         | -                            | -              | 360            | 100         | H        |
| * 2.837         | 29.48                | AD1 | 32.6           | -31.8                  | 30.28                      | 54                 | -23.72      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.884         | 40.07                | PK1 | 33.2           | -29.9                  | 43.37                      | -                  | -           | 74                  | -30.63         | -                            | -              | 360            | 100         | H        |
| * 3.883         | 29.5                 | AD1 | 33.2           | -29.9                  | 32.8                       | 54                 | -21.2       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 1.289         | 41.72                | PK1 | 29.8           | -33                    | 38.52                      | -                  | -           | 74                  | -35.48         | -                            | -              | 360            | 100         | V        |
| * 1.287         | 30.03                | AD1 | 29.8           | -33                    | 26.83                      | 54                 | -27.17      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 4.324         | 39.69                | PK1 | 33.5           | -29.6                  | 43.59                      | -                  | -           | 74                  | -30.41         | -                            | -              | 360            | 100         | V        |
| * 4.321         | 28.07                | AD1 | 33.5           | -29.6                  | 31.97                      | 54                 | -22.03      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 12.039        | 37.11                | PK1 | 39.1           | -23.4                  | 52.81                      | -                  | -           | 74                  | -21.19         | -                            | -              | 360            | 100         | V        |
| * 12.038        | 25.47                | AD1 | 39.1           | -23.4                  | 41.17                      | 54                 | -12.83      | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

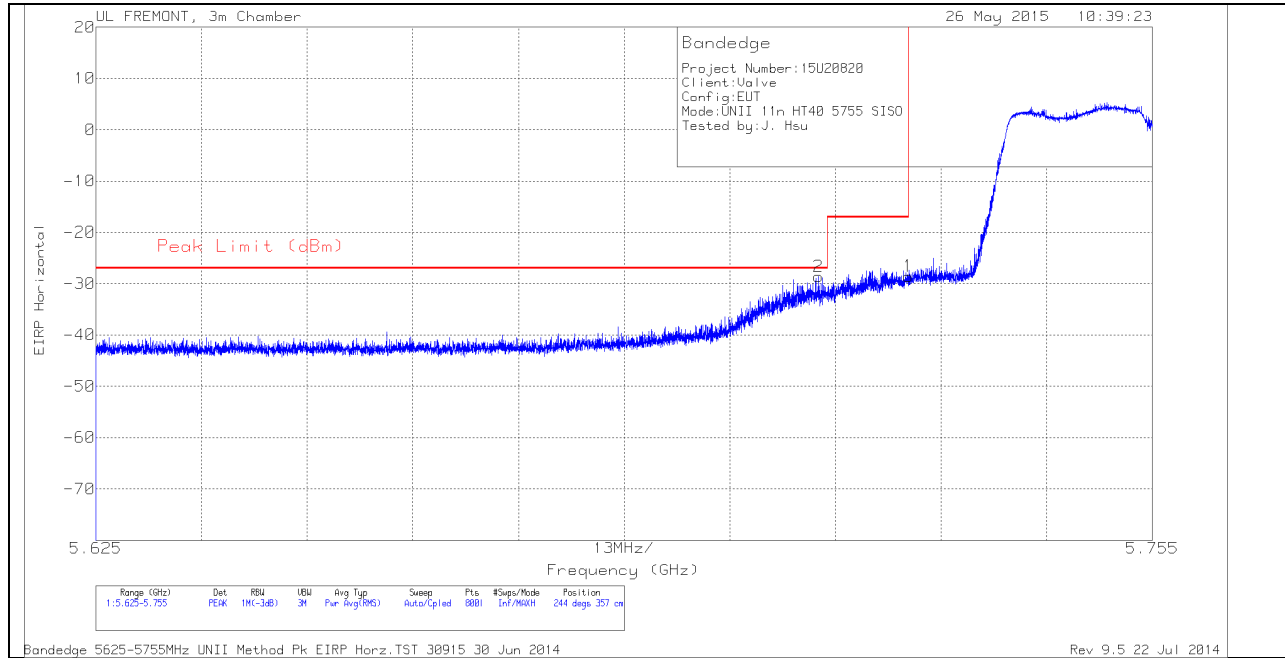
AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

**12.4.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND  
RESTRICTED BANDEDGE (LOW CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

**Trace Markers**

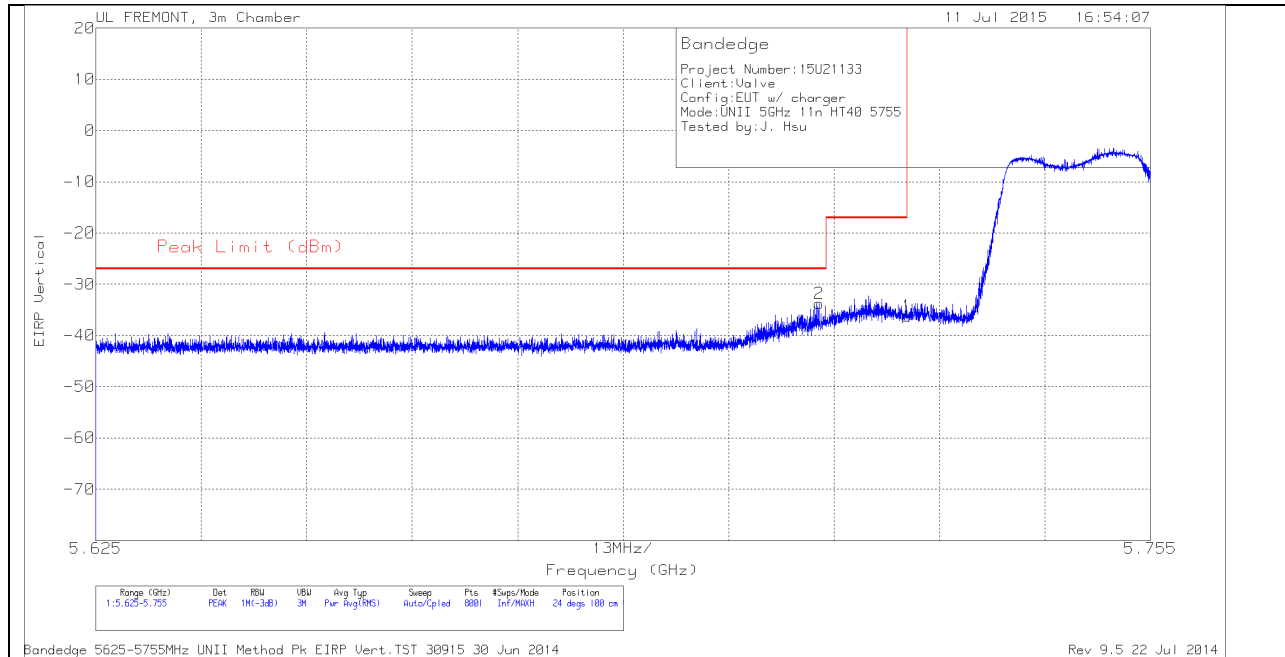
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.714           | -54.19              | PK  | 34.8           | -21                    | 11.8                   | -28.59                 | -27              | -1.59          | 244            | 357         | H        |
| 1      | 5.725           | -54.04              | PK  | 34.8           | -21.1                  | 11.8                   | -28.54                 | -17              | -11.54         | 244            | 357         | H        |

PK - Peak detector

Bandedge 5625-5755MHz UNII Method Pk EIRP Horiz.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

## VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.714           | -59.92              | PK  | 34.8           | -20.4                  | 11.8                   | -33.72                 | -27              | -6.72          | 24             | 100         | V        |
| 1      | 5.725           | -62.46              | PK  | 34.8           | -20.3                  | 11.8                   | -36.16                 | -17              | -19.16         | 24             | 100         | V        |

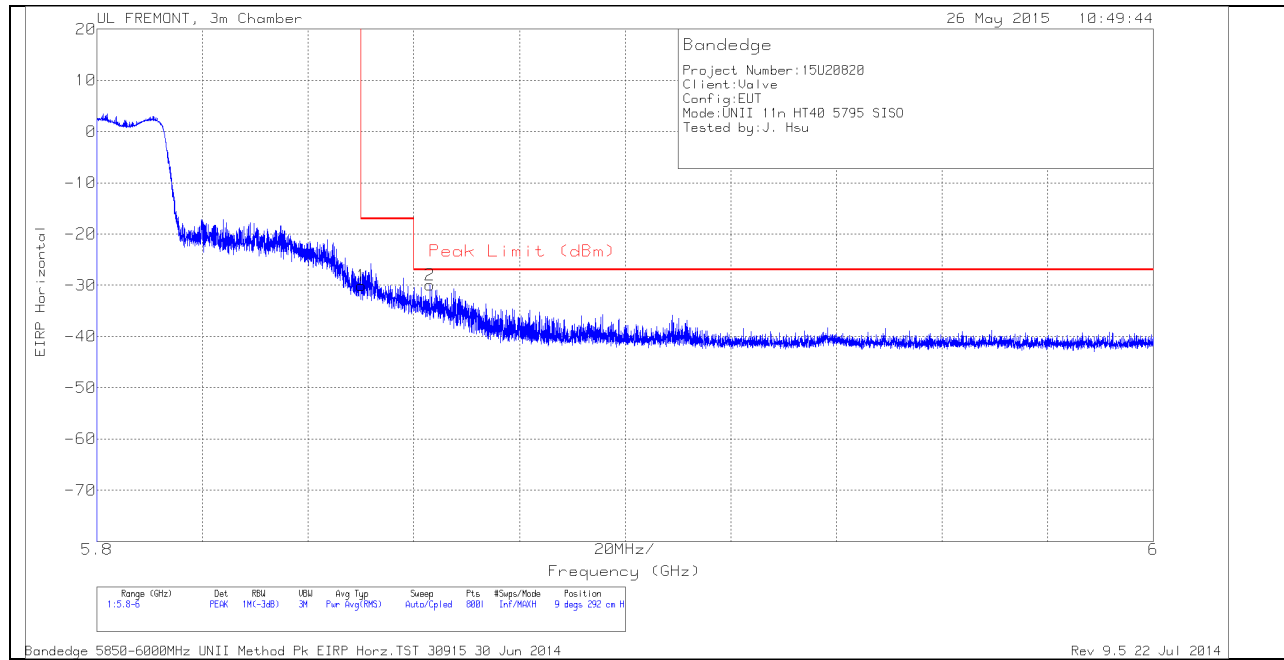
PK - Peak detector

Bandedge 5625-5755MHz UNII Method Pk EIRP Vert.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

## AUTHORIZED BANDEDGE (HIGH CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

#### Trace Markers

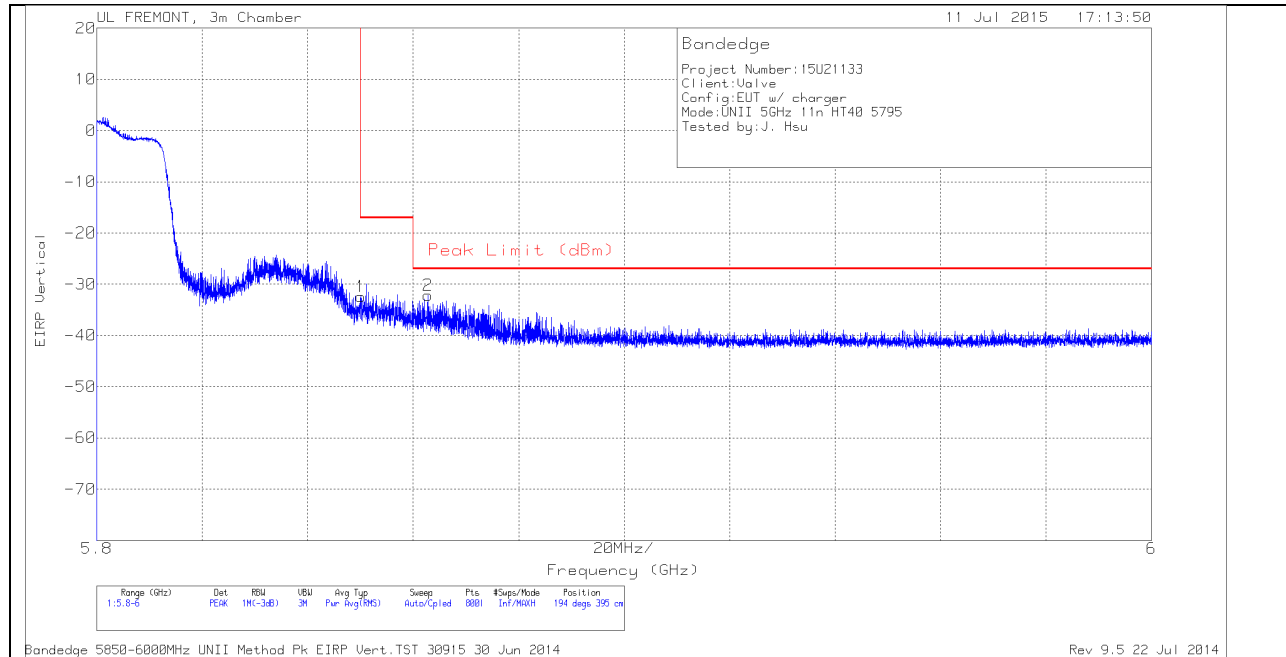
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -55.42              | PK  | 34.9           | -21.3                  | 11.8                   | -30.02                 | -17              | -13.02         | 9              | 292         | H        |
| 2      | 5.863           | -55.32              | PK  | 34.9           | -21.3                  | 11.8                   | -29.92                 | -27              | -2.92          | 9              | 292         | H        |

PK - Peak detector

Bandedge 5850-6000MHz UNII Method Pk EIRP Horiz.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

# VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -58.56              | PK  | 34.9           | -20.6                  | 11.8                   | -32.46                 | -17              | -15.46         | 194            | 395         | V        |
| 2      | 5.863           | -58.33              | PK  | 34.9           | -20.5                  | 11.8                   | -32.13                 | -27              | -5.13          | 194            | 395         | V        |

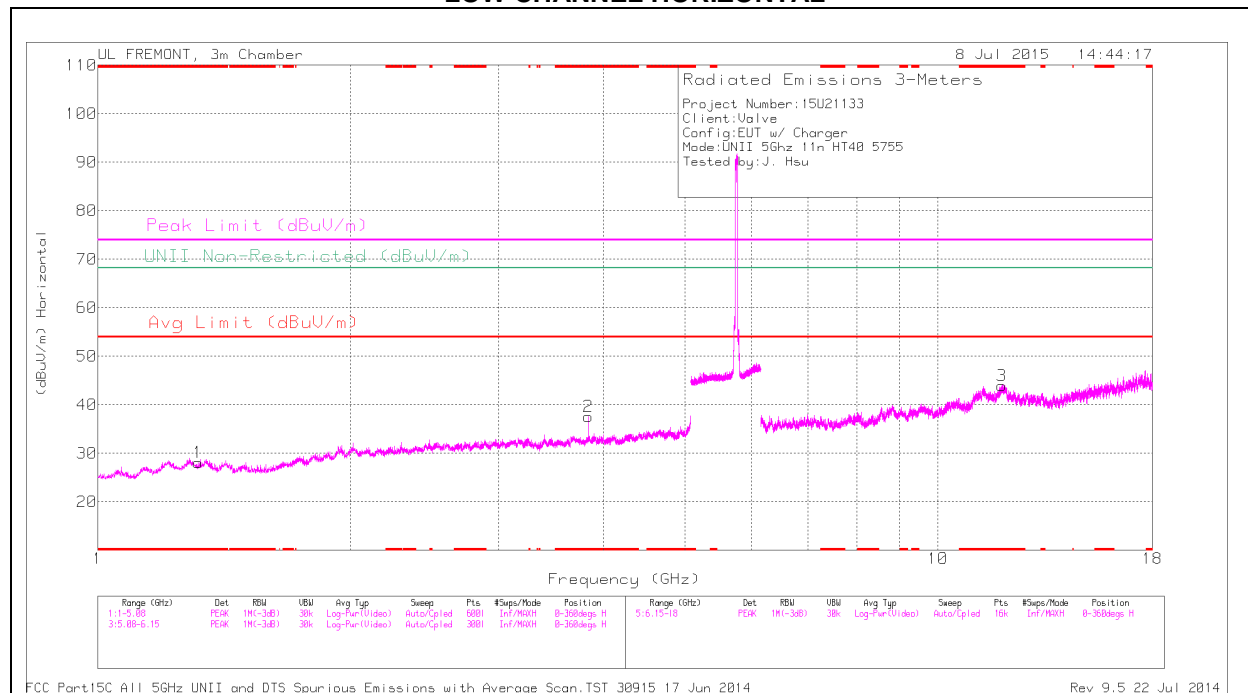
PK - Peak detector

Bandedge 5850-6000MHz UNII Method Pk EIRP Vert.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

## HARMONICS AND SPURIOUS EMISSIONS

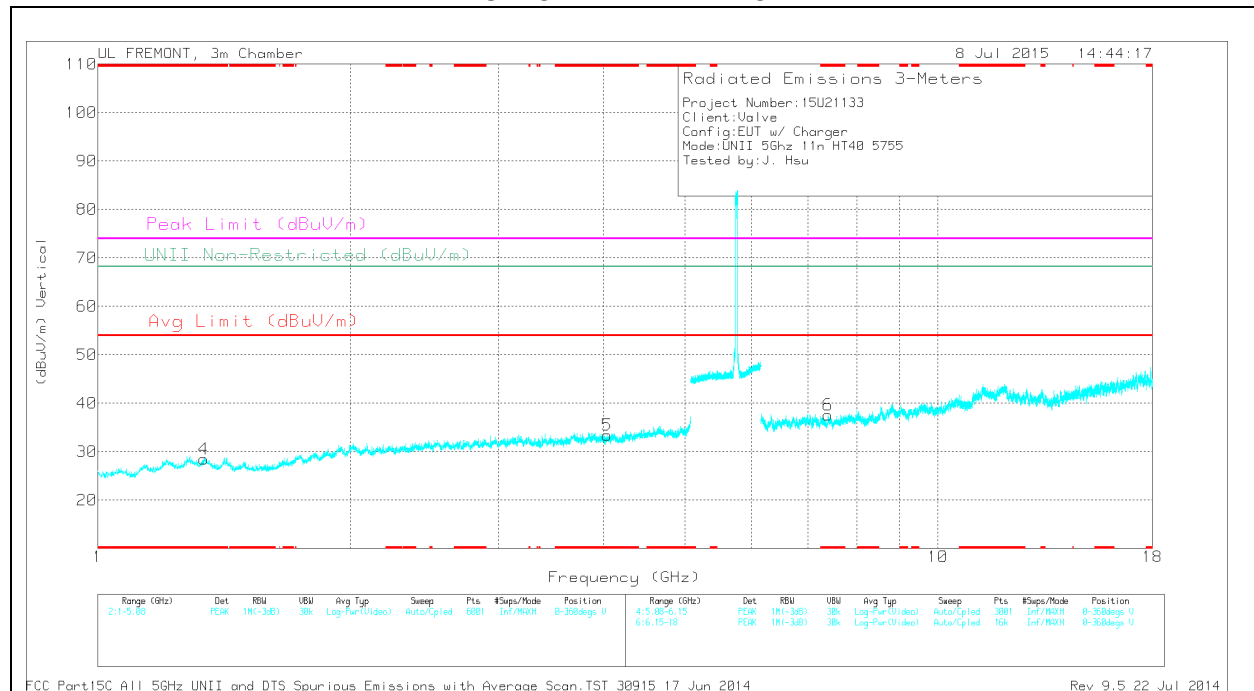
### LOW CHANNEL HORIZONTAL



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



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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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      | * 1.317         | 31.44                | PK  | 29.7           | -33                  | 0            | 28.14                      | -                  | -           | 74                  | -45.86         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 3.837         | 34.6                 | PK  | 33.1           | -30.1                | 0            | 37.6                       | -                  | -           | 74                  | -36.4          | -                            | -              | 0-360          | 100         | H        |
| 4      | * 1.337         | 31.87                | PK  | 29.4           | -32.8                | 0            | 28.47                      | -                  | -           | 74                  | -45.53         | -                            | -              | 0-360          | 100         | V        |
| 5      | * 4.037         | 30.69                | PK  | 33.2           | -30.5                | 0            | 33.39                      | -                  | -           | 74                  | -40.61         | -                            | -              | 0-360          | 200         | V        |
| 3      | * 11.917        | 28.39                | PK  | 39.1           | -23.6                | 0            | 43.89                      | -                  | -           | 74                  | -30.11         | -                            | -              | 0-360          | 100         | H        |
| 6      | * 7.399         | 29.67                | PK  | 35.6           | -27.7                | 0            | 37.57                      | -                  | -           | 74                  | -36.43         | -                            | -              | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.319         | 40.78                | PK1 | 29.7           | -33                  | 0            | 37.48                      | -                  | -           | 74                  | -36.52         | -                            | -              | 360            | 100         | H        |
| * 1.316         | 29.22                | AD1 | 29.7           | -33                  | .8           | 26.72                      | 54                 | -27.28      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.836         | 41.65                | PK1 | 33.1           | -30.1                | 0            | 44.65                      | -                  | -           | 74                  | -29.35         | -                            | -              | 360            | 100         | H        |
| * 3.837         | 30.3                 | AD1 | 33.1           | -30.1                | .8           | 34.1                       | 54                 | -19.9       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 1.338         | 41.77                | PK1 | 29.4           | -32.8                | 0            | 38.37                      | -                  | -           | 74                  | -35.63         | -                            | -              | 360            | 100         | V        |
| * 1.339         | 29.83                | AD1 | 29.4           | -32.8                | .8           | 27.23                      | 54                 | -26.77      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 4.036         | 40.71                | PK1 | 33.2           | -30.6                | 0            | 43.31                      | -                  | -           | 74                  | -30.69         | -                            | -              | 360            | 100         | V        |
| * 4.036         | 28.7                 | AD1 | 33.2           | -30.5                | .8           | 32.2                       | 54                 | -21.8       | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 11.915        | 37.15                | PK1 | 39.1           | -23.6                | 0            | 52.65                      | -                  | -           | 74                  | -21.35         | -                            | -              | 360            | 100         | H        |
| * 11.918        | 25.92                | AD1 | 39.1           | -23.6                | .8           | 42.22                      | 54                 | -11.78      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 7.398         | 38.39                | PK1 | 35.6           | -27.7                | 0            | 46.29                      | -                  | -           | 74                  | -27.71         | -                            | -              | 360            | 100         | V        |
| * 7.399         | 27.3                 | AD1 | 35.6           | -27.7                | .8           | 36                         | 54                 | -18         | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

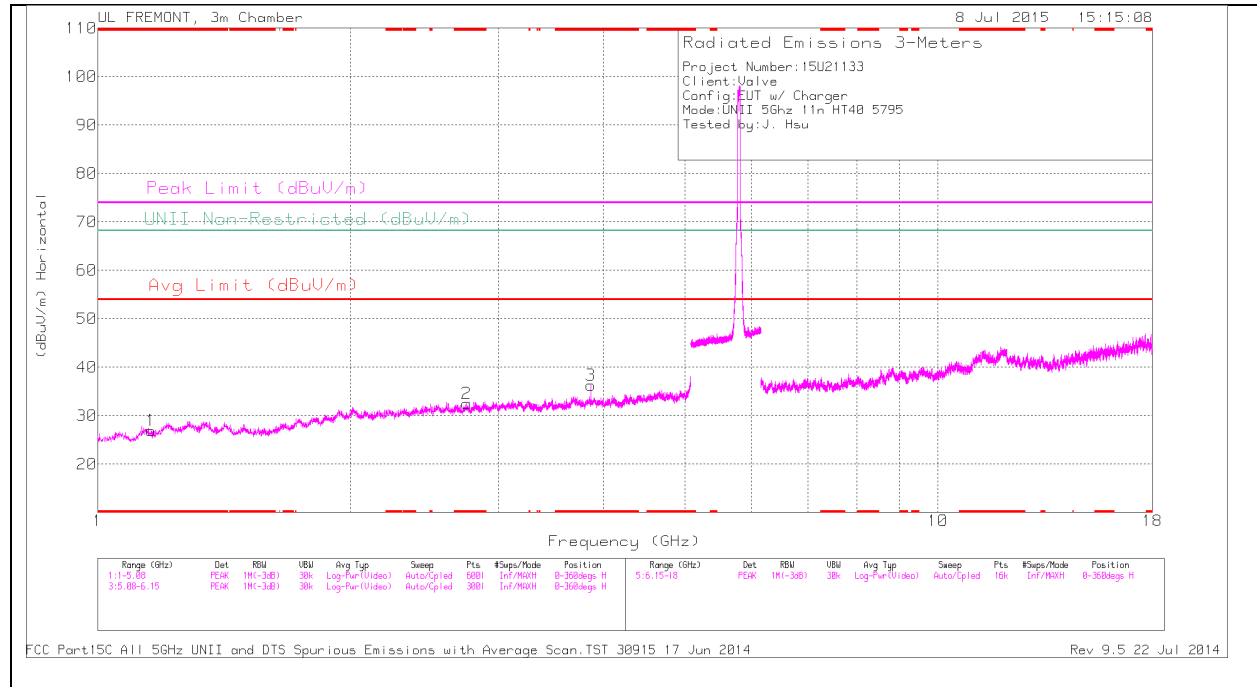
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

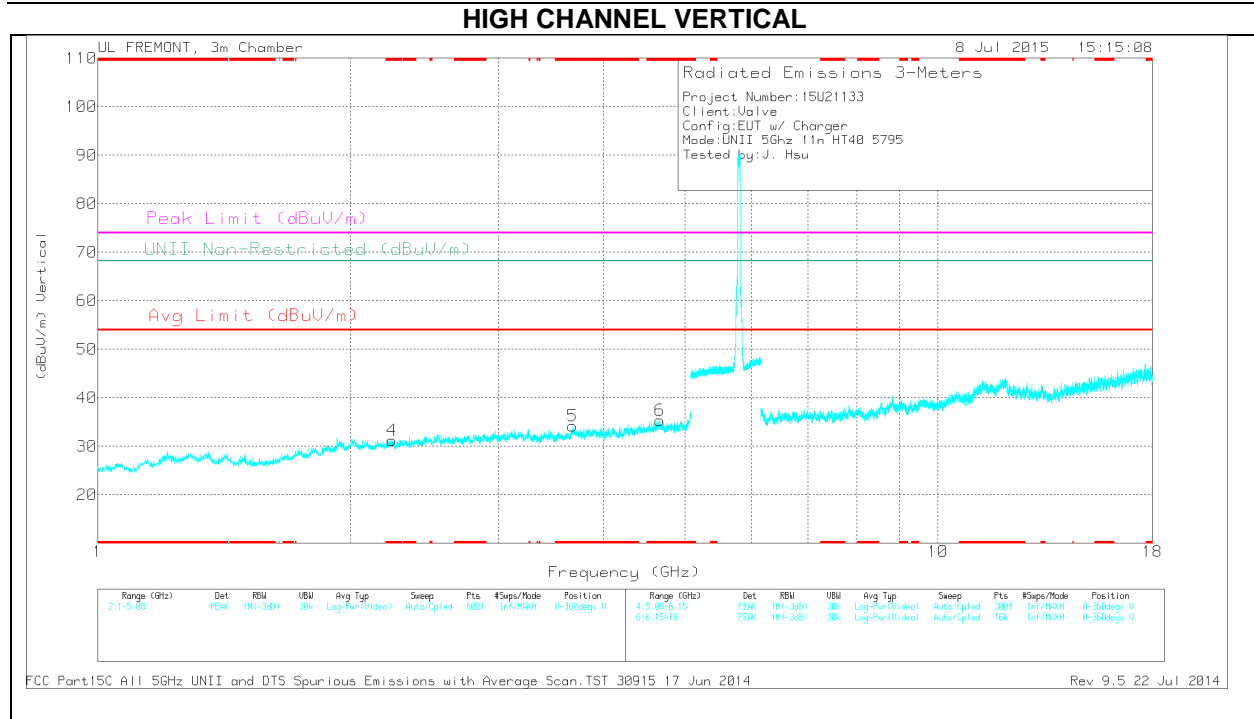
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

### HIGH CHANNEL HORIZONTAL



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



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

## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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      | * 1.158         | 31.37                | PK  | 28.3           | -32.7                | 0            | 26.97                      | -                  | -           | 74                  | -47.03         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 2.75          | 31.65                | PK  | 32.4           | -31.5                | 0            | 32.55                      | -                  | -           | 74                  | -41.45         | -                            | -              | 0-360          | 100         | H        |
| 3      | * 3.863         | 33.38                | PK  | 33.1           | -30.2                | 0            | 36.28                      | -                  | -           | 74                  | -37.72         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 2.241         | 31.4                 | PK  | 31.5           | -31.7                | 0            | 31.2                       | -                  | -           | 74                  | -42.8          | -                            | -              | 0-360          | 200         | V        |
| 5      | * 3.677         | 30.86                | PK  | 33             | -29.7                | 0            | 34.16                      | -                  | -           | 74                  | -39.84         | -                            | -              | 0-360          | 100         | V        |
| 6      | * 4.665         | 31.11                | PK  | 34             | -29.7                | 0            | 35.41                      | -                  | -           | 74                  | -38.59         | -                            | -              | 0-360          | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.159         | 40.77                | PK1 | 28.3           | -32.7                | 0            | 36.37                      | -                  | -           | 74                  | -37.63         | -                            | -              | 360            | 100         | H        |
| * 1.156         | 29.31                | AD1 | 28.2           | -32.7                | .8           | 25.61                      | 54                 | -28.39      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.751         | 40.88                | PK1 | 32.4           | -31.5                | 0            | 41.78                      | -                  | -           | 74                  | -32.22         | -                            | -              | 360            | 100         | H        |
| * 2.75          | 29.31                | AD1 | 32.4           | -31.5                | .8           | 31.01                      | 54                 | -22.99      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.863         | 40.04                | PK1 | 33.1           | -30.2                | 0            | 42.94                      | -                  | -           | 74                  | -31.06         | -                            | -              | 360            | 100         | H        |
| * 3.863         | 29.27                | AD1 | 33.1           | -30.2                | .8           | 32.97                      | 54                 | -21.03      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.242         | 41.19                | PK1 | 31.5           | -31.7                | 0            | 40.99                      | -                  | -           | 74                  | -33.01         | -                            | -              | 360            | 100         | V        |
| * 2.241         | 29.34                | AD1 | 31.5           | -31.7                | .8           | 29.94                      | 54                 | -24.06      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 3.676         | 39.88                | PK1 | 33             | -29.7                | 0            | 43.18                      | -                  | -           | 74                  | -30.82         | -                            | -              | 360            | 100         | V        |
| * 3.677         | 28.37                | AD1 | 33             | -29.7                | .8           | 32.47                      | 54                 | -21.53      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 4.666         | 40.39                | PK1 | 34             | -29.7                | 0            | 44.69                      | -                  | -           | 74                  | -29.31         | -                            | -              | 360            | 100         | V        |
| * 4.666         | 28.53                | AD1 | 34             | -29.7                | .8           | 33.63                      | 54                 | -20.37      | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

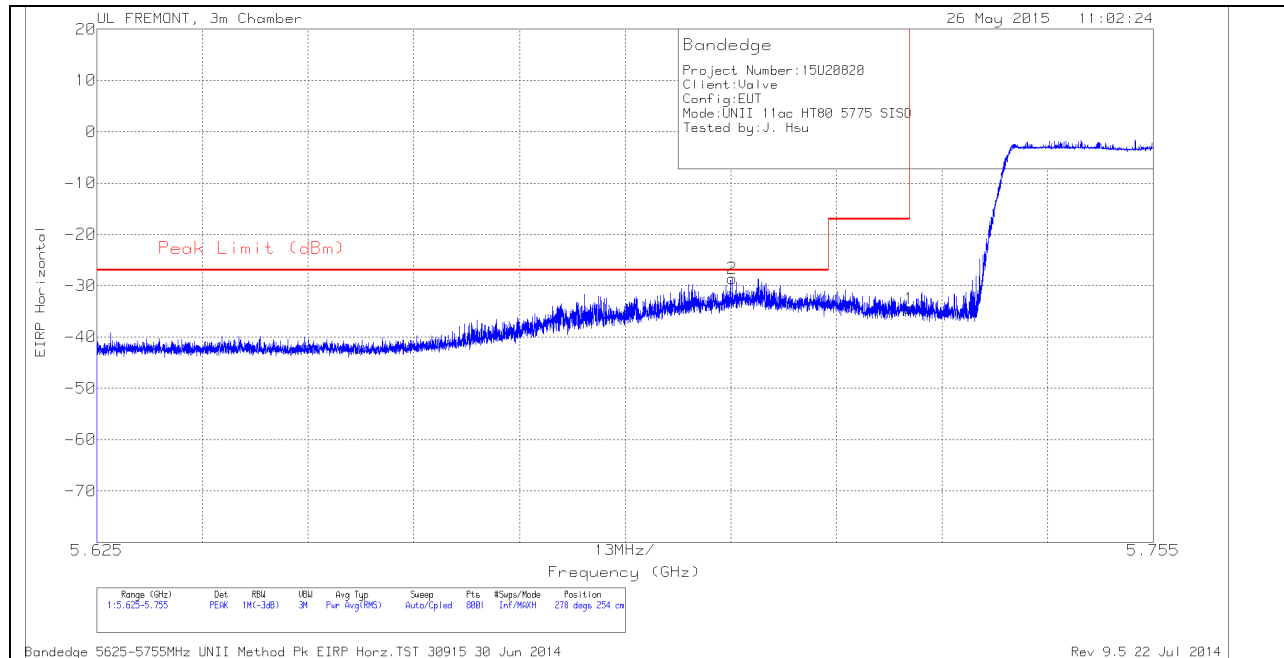
AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

# **12.4.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)**

## **HORIZONTAL PEAK AND AVERAGE PLOT**



## **HORIZONTAL DATA**

### **Trace Markers**

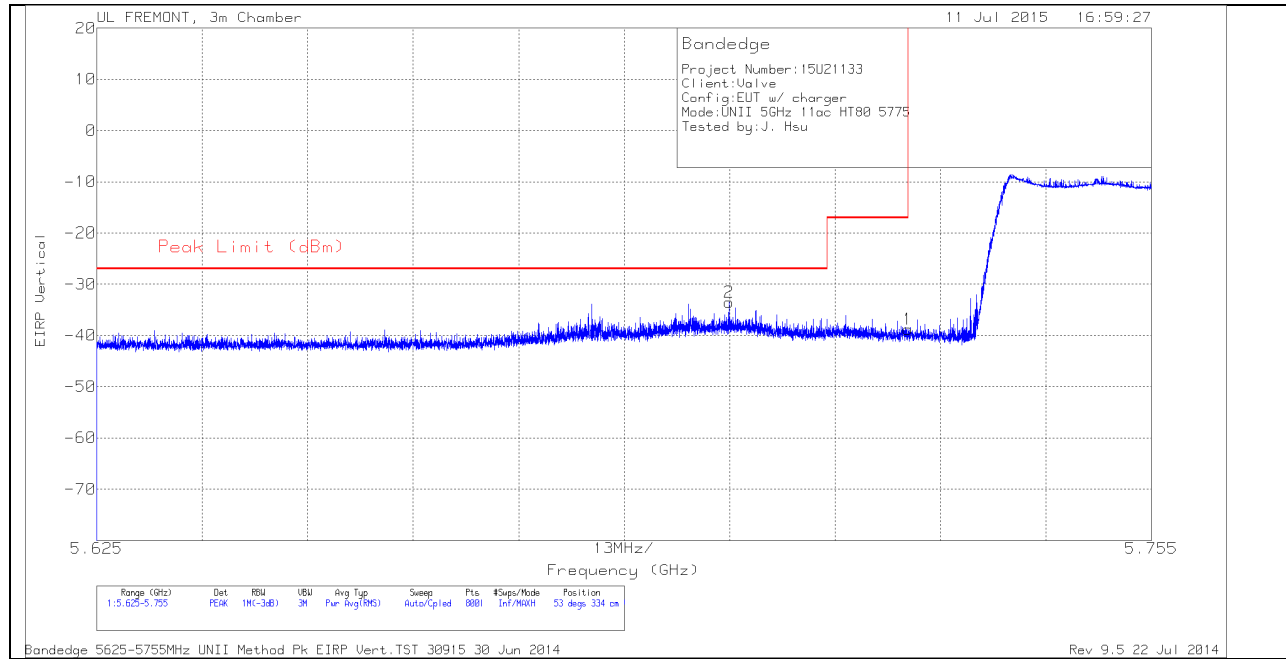
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.703           | -54.06              | PK  | 34.7           | -21                    | 11.8                   | -28.56                 | -27              | -1.56          | 278            | 254         | H        |
| 1      | 5.725           | -60.04              | PK  | 34.8           | -21.1                  | 11.8                   | -34.54                 | -17              | -17.54         | 278            | 254         | H        |

PK - Peak detector

Bandedge 5625-5755MHz UNII Method Pk EIRP Horiz.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

### VERTICAL PEAK AND AVERAGE PLOT



### VERTICAL DATA

#### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.703           | -59.67              | PK  | 34.7           | -20.3                  | 11.8                   | -33.47                 | -27              | -6.47          | 53             | 334         | V        |
| 1      | 5.725           | -65.15              | PK  | 34.8           | -20.3                  | 11.8                   | -38.85                 | -17              | -21.85         | 53             | 334         | V        |

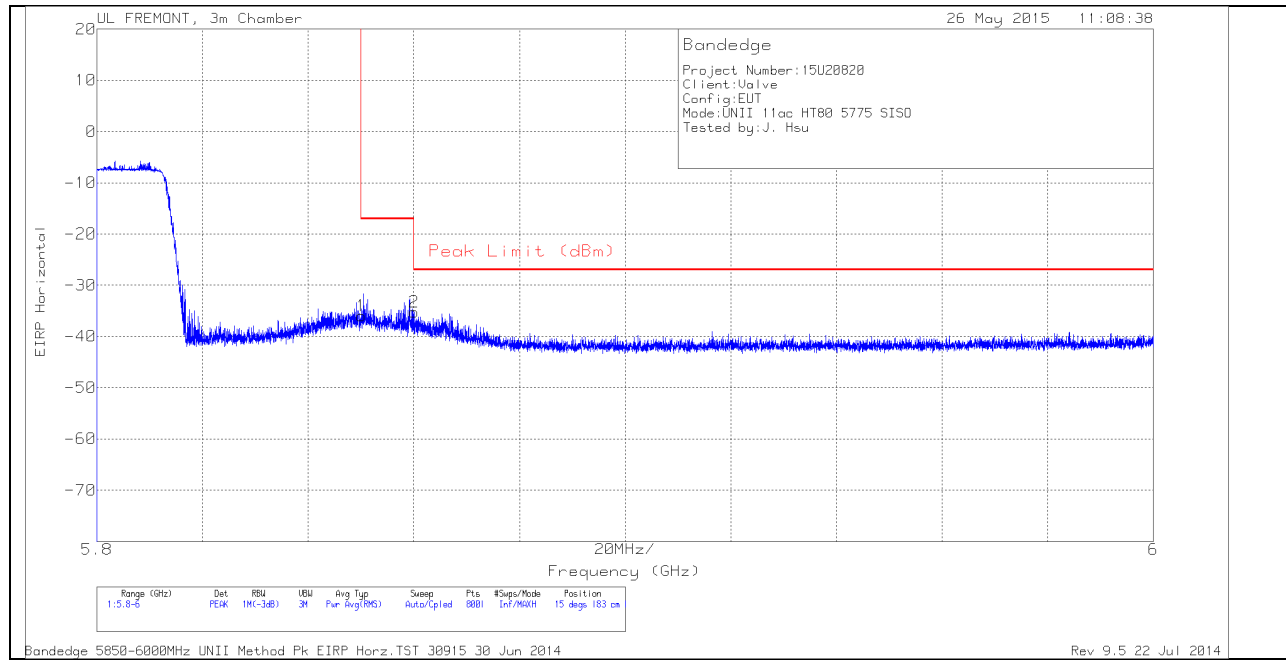
PK - Peak detector

Bandedge 5625-5755MHz UNII Method Pk EIRP Vert. TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

## AUTHORIZED BANDEDGE (HIGH CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

#### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -61.39              | PK  | 34.9           | -21.3                  | 11.8                   | -35.99                 | -17              | -18.99         | 15             | 183         | H        |
| 2      | 5.86            | -60.67              | PK  | 34.9           | -21.3                  | 11.8                   | -35.27                 | -27              | -8.27          | 15             | 183         | H        |

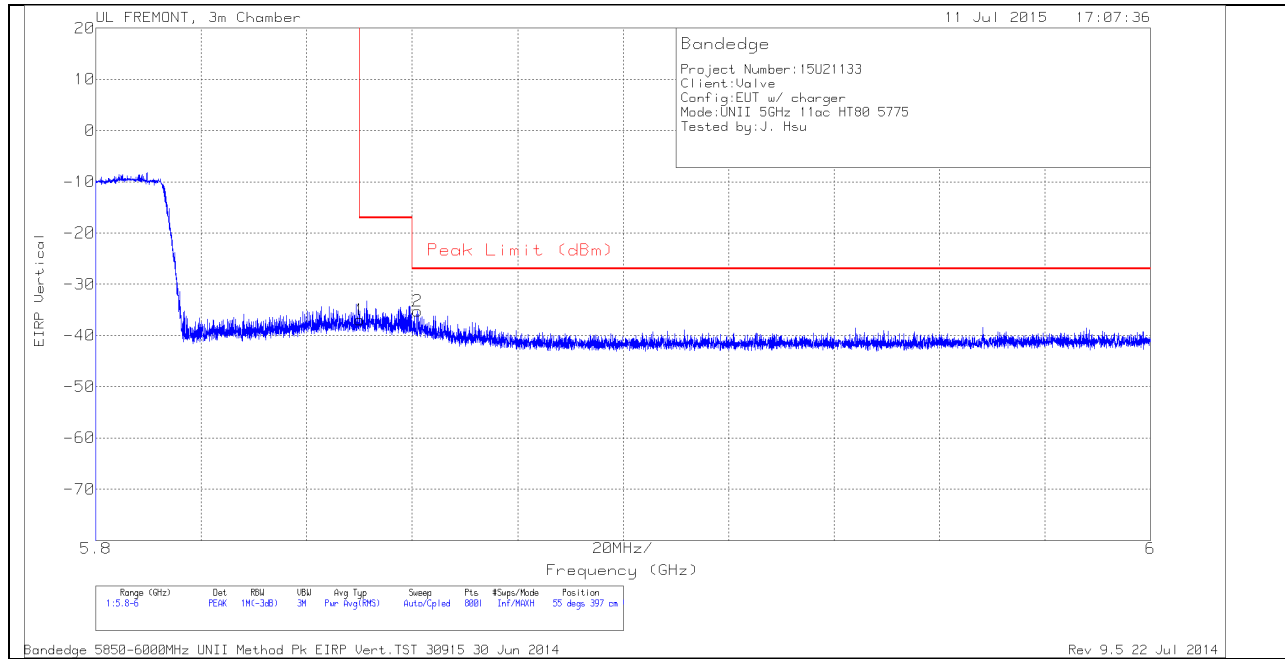
PK - Peak detector

Bandedge 5850-6000MHz UNII Method Pk EIRP Horz.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014



# VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -63.01              | PK  | 34.9           | -20.6                  | 11.8                   | -36.91                 | -17              | -19.91         | 55             | 397         | V        |
| 2      | 5.861           | -61.41              | PK  | 34.9           | -20.5                  | 11.8                   | -35.21                 | -27              | -8.21          | 55             | 397         | V        |

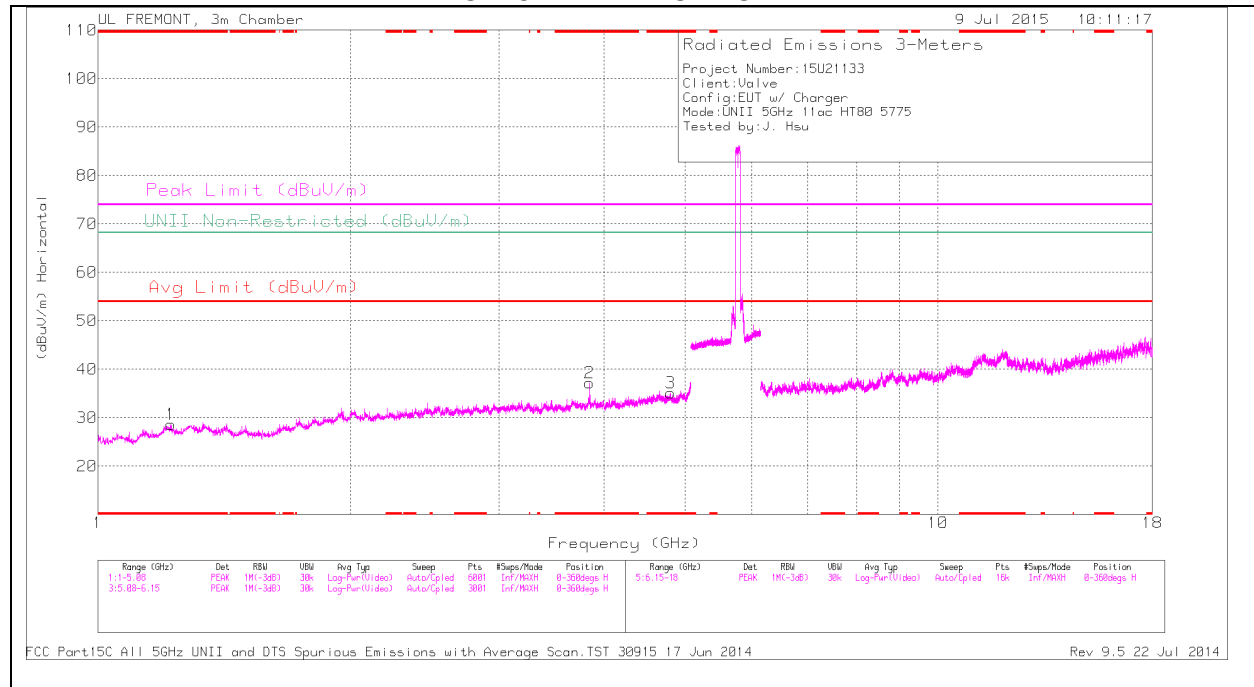
PK - Peak detector

Bandedge 5850-6000MHz UNII Method Pk EIRP Vert.TST 30915 30 Jun 2014

Rev 9.5 22 Jul 2014

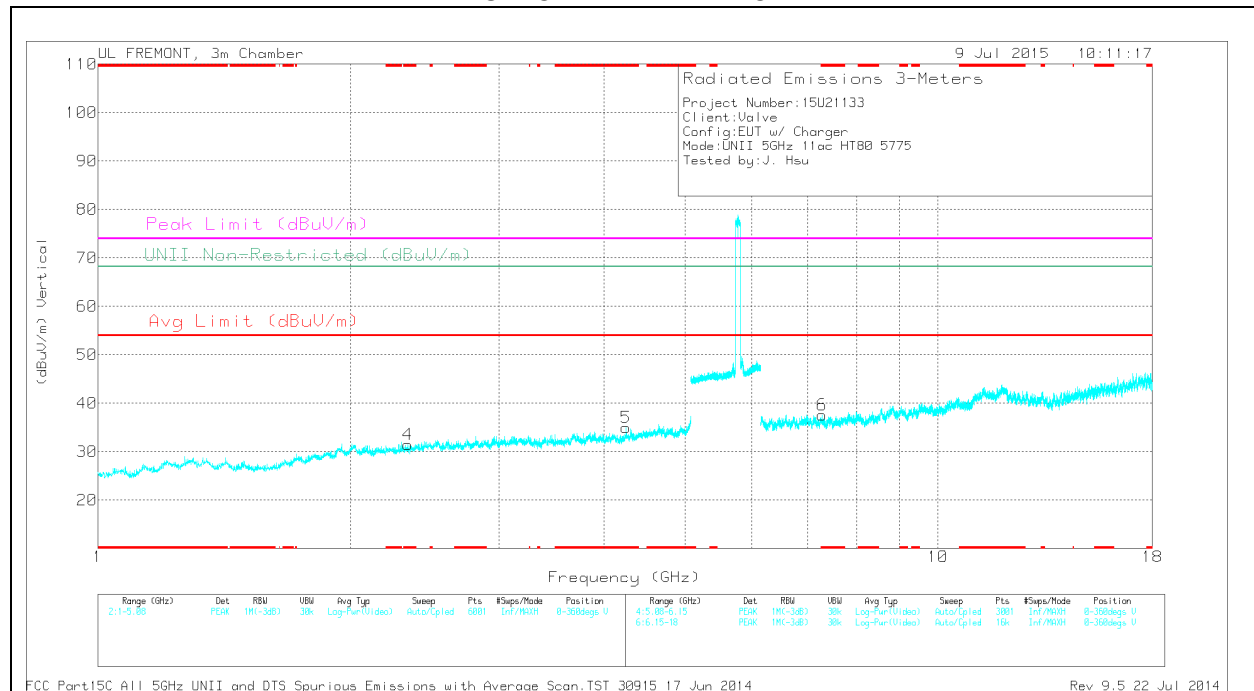
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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      | * 1.222         | 32.2                 | PK  | 29.1           | -32.7                | 0            | 28.6                       | -                  | -           | 74                  | -45.4          | -                            | -              | 0-360          | 200         | H        |
| 2      | * 3.85          | 34.15                | PK  | 33.1           | -30.1                | 0            | 37.15                      | -                  | -           | 74                  | -36.85         | -                            | -              | 0-360          | 100         | H        |
| 3      | * 4.803         | 30.4                 | PK  | 34             | -29.3                | 0            | 35.1                       | -                  | -           | 74                  | -38.9          | -                            | -              | 0-360          | 100         | H        |
| 4      | * 2.338         | 31.64                | PK  | 31.8           | -32                  | 0            | 31.44                      | -                  | -           | 74                  | -42.56         | -                            | -              | 0-360          | 200         | V        |
| 5      | * 4.25          | 31.53                | PK  | 33.4           | -30                  | 0            | 34.93                      | -                  | -           | 74                  | -39.07         | -                            | -              | 0-360          | 200         | V        |
| 6      | * 7.276         | 30.44                | PK  | 35.6           | -28.5                | 0            | 37.54                      | -                  | -           | 74                  | -36.46         | -                            | -              | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.221         | 42                   | PK1 | 29.1           | -32.7                | 0            | 38.4                       | -                  | -           | 74                  | -35.6          | -                            | -              | 0              | 100         | H        |
| * 1.22          | 29.86                | AD1 | 29.1           | -32.7                | 1.02         | 27.28                      | 54                 | -26.72      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 3.85          | 40.6                 | PK1 | 33.1           | -30.1                | 0            | 43.6                       | -                  | -           | 74                  | -30.4          | -                            | -              | 0              | 100         | H        |
| * 3.85          | 30.39                | AD1 | 33.1           | -30.1                | 1.02         | 34.41                      | 54                 | -19.59      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 4.803         | 39.49                | PK1 | 34             | -29.3                | 0            | 44.19                      | -                  | -           | 74                  | -29.81         | -                            | -              | 0              | 100         | H        |
| * 4.801         | 28.6                 | AD1 | 34             | -29.3                | 1.02         | 34.32                      | 54                 | -19.68      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 2.337         | 40.55                | PK1 | 31.8           | -32                  | 0            | 40.35                      | -                  | -           | 74                  | -33.65         | -                            | -              | 0              | 100         | V        |
| * 2.338         | 29.41                | AD1 | 31.8           | -32                  | 1.02         | 30.23                      | 54                 | -23.77      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 4.25          | 40.38                | PK1 | 33.4           | -30                  | 0            | 43.78                      | -                  | -           | 74                  | -30.22         | -                            | -              | 0              | 100         | V        |
| * 4.25          | 28.84                | AD1 | 33.4           | -30                  | 1.02         | 33.26                      | 54                 | -20.74      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 7.276         | 38.8                 | PK1 | 35.6           | -28.5                | 0            | 45.9                       | -                  | -           | 74                  | -28.1          | -                            | -              | 0              | 100         | V        |
| * 7.278         | 27.83                | AD1 | 35.6           | -28.5                | 1.02         | 35.95                      | 54                 | -18.05      | -                   | -              | -                            | -              | 0              | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

## 13. TRANSMITTER ABOVE 1 GHz MIMO

### LIMITS

FCC §15.205 and §15.209  
RSS-GEN 8.9  
RSS-247 6

| 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 below 1GHz and 150cm for above 1GHz. The antenna to EUT distance is 3 meters.

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.

Reference to KDB 789033 UNII part H) 6) d) Method VB:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

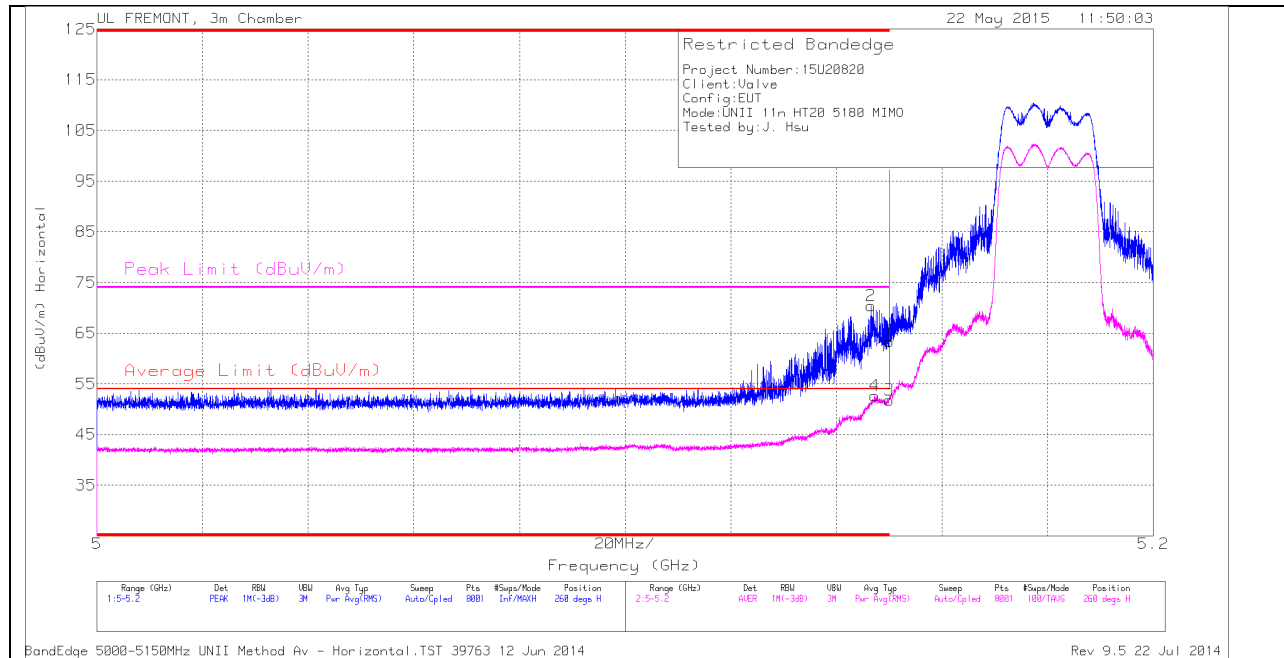
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

## 13.1. 5.2 GHz

### 13.1.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

##### Trace Markers

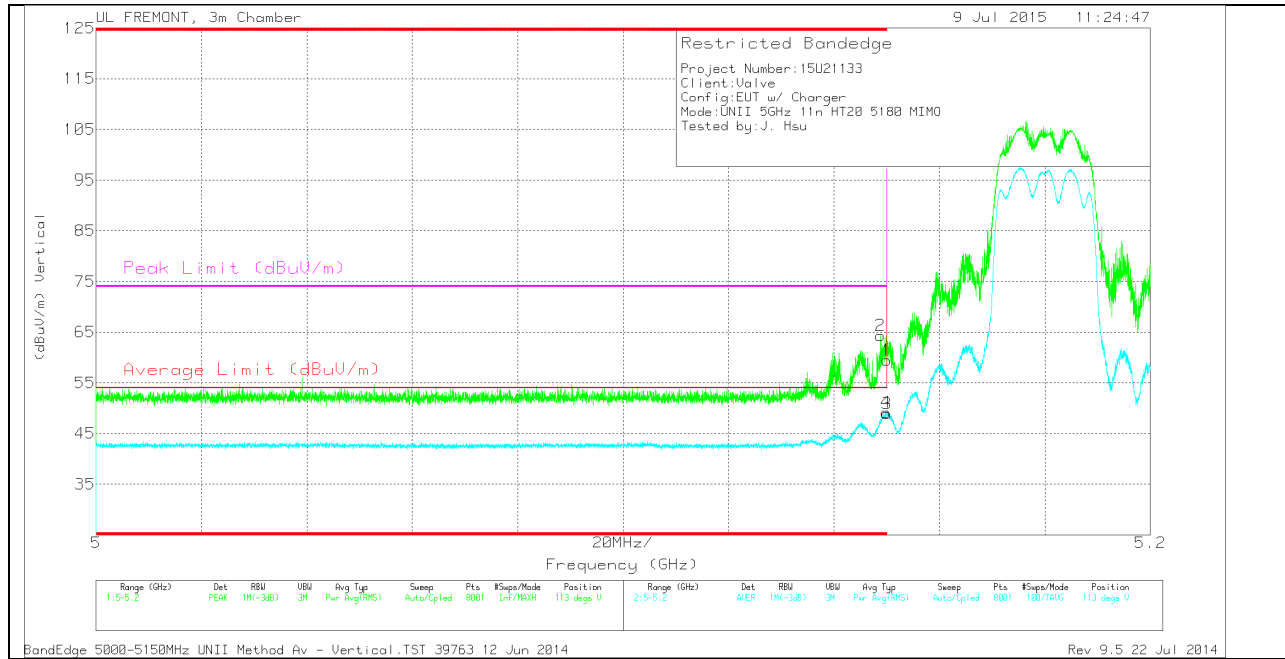
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/ Ftr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 50.73                | PK  | 34.2           | -21.6                 | 63.33                      | -                      | -           | 74                  | -10.67         | 260            | 299         | H        |
| 2      | * 5.147         | 57.86                | PK  | 34.2           | -21.6                 | 70.46                      | -                      | -           | 74                  | -3.54          | 260            | 299         | H        |
| 3      | * 5.15          | 39.23                | RMS | 34.2           | -21.6                 | 51.83                      | 54                     | -2.17       | -                   | -              | 260            | 299         | H        |
| 4      | * 5.147         | 40.04                | RMS | 34.2           | -21.6                 | 52.64                      | 54                     | -1.36       | -                   | -              | 260            | 299         | H        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

RMS - RMS detection

# VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/ Filt/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      | * 5.15          | 46.05                | PK  | 34.2           | -20.8                  | 59.45                      | -                      | -           | 74                  | -14.55         | 113            | 103         | V        |
| 2      | * 5.149         | 50.9                 | PK  | 34.2           | -20.8                  | 64.3                       | -                      | -           | 74                  | -9.7           | 113            | 103         | V        |
| 3      | * 5.15          | 35.49                | RMS | 34.2           | -20.8                  | 48.89                      | 54                     | -5.11       | -                   | -              | 113            | 103         | V        |
| 4      | * 5.15          | 35.8                 | RMS | 34.2           | -20.8                  | 49.2                       | 54                     | -4.8        | -                   | -              | 113            | 103         | V        |

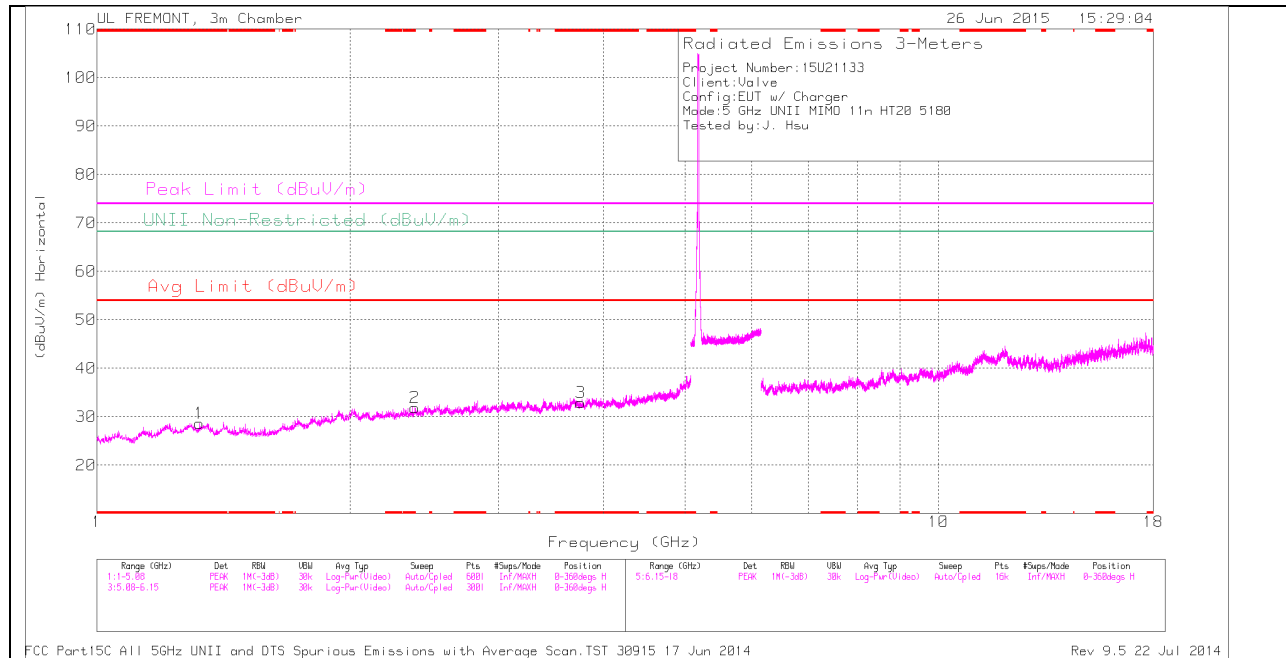
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

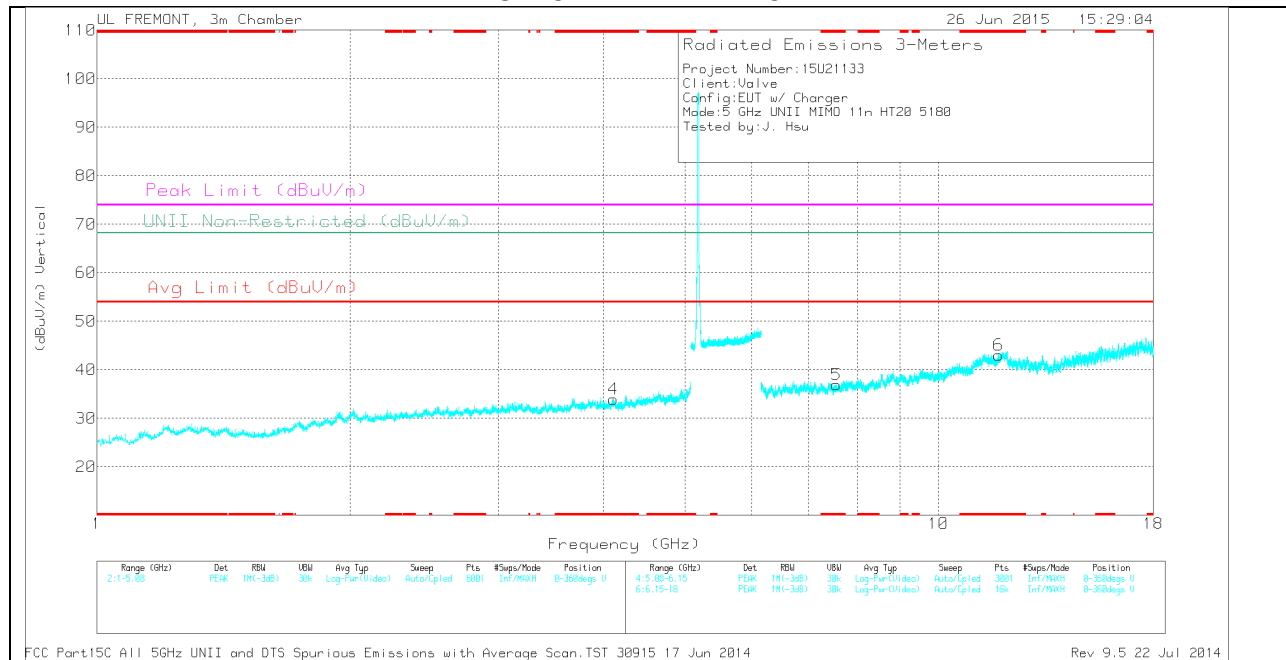
### LOW CHANNEL HORIZONTAL



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



### 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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Chl/ Ftr/Pad (dB) | DC Corr (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      | * 1.324         | 32.03                | PK  | 29.6           | -33                   | 0            | 28.63                      | -                  | -           | 74                  | -45.37         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 2.387         | 31.86                | PK  | 32             | -32                   | 0            | 31.86                      | -                  | -           | 74                  | -42.14         | -                            | -              | 0-360          | 200         | H        |
| 3      | * 3.756         | 30.84                | PK  | 33.1           | -31                   | 0            | 32.94                      | -                  | -           | 74                  | -41.06         | -                            | -              | 0-360          | 200         | H        |
| 4      | * 4.112         | 30.98                | PK  | 33.3           | -30.3                 | 0            | 33.98                      | -                  | -           | 74                  | -40.02         | -                            | -              | 0-360          | 200         | V        |
| 5      | * 7.563         | 28.55                | PK  | 35.7           | -27.3                 | 0            | 36.95                      | -                  | -           | 74                  | -37.05         | -                            | -              | 0-360          | 100         | V        |
| 6      | * 11.783        | 26.98                | PK  | 39             | -23                   | 0            | 42.98                      | -                  | -           | 74                  | -31.02         | -                            | -              | 0-360          | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T119 (dB/m) | Amp/Chl/ Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.325         | 40.65                | PK2  | 29.6           | -33                   | 0            | 37.25                      | -                  | -           | 74                  | -36.75         | -                            | -              | 0              | 100         | H        |
| * 1.326         | 29.37                | MAV1 | 29.6           | -33                   | .11          | 26.08                      | 54                 | -27.92      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 2.387         | 41.11                | PK2  | 32             | -32                   | 0            | 41.11                      | -                  | -           | 74                  | -32.89         | -                            | -              | 0              | 100         | H        |
| * 2.387         | 29.6                 | MAV1 | 32             | -32                   | .11          | 29.71                      | 54                 | -24.29      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 3.756         | 40.48                | PK2  | 33.1           | -31                   | 0            | 42.58                      | -                  | -           | 74                  | -31.42         | -                            | -              | 0              | 100         | H        |
| * 3.758         | 28.68                | MAV1 | 33.1           | -31.1                 | .11          | 30.79                      | 54                 | -23.21      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 4.111         | 40.68                | PK2  | 33.3           | -30.3                 | 0            | 43.68                      | -                  | -           | 74                  | -30.32         | -                            | -              | 0              | 100         | V        |
| * 4.11          | 28.81                | MAV1 | 33.3           | -30.3                 | .11          | 31.92                      | 54                 | -22.08      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 7.561         | 38.53                | PK2  | 35.7           | -27.4                 | 0            | 46.83                      | -                  | -           | 74                  | -27.17         | -                            | -              | 0              | 100         | V        |
| * 7.562         | 27.3                 | MAV1 | 35.7           | -27.4                 | .11          | 35.71                      | 54                 | -18.29      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 11.782        | 37.05                | PK2  | 39             | -23                   | 0            | 53.05                      | -                  | -           | 74                  | -20.95         | -                            | -              | 0              | 100         | V        |
| * 11.781        | 25.85                | MAV1 | 39             | -23                   | .11          | 41.96                      | 54                 | -12.04      | -                   | -              | -                            | -              | 0              | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

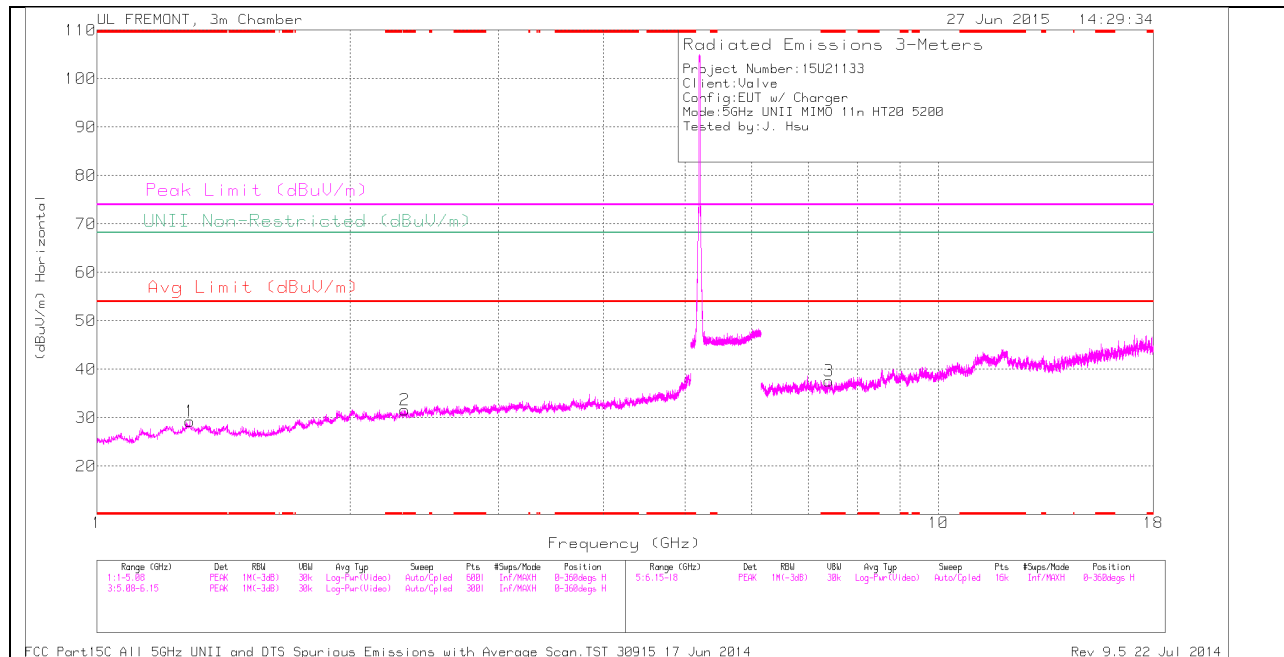
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

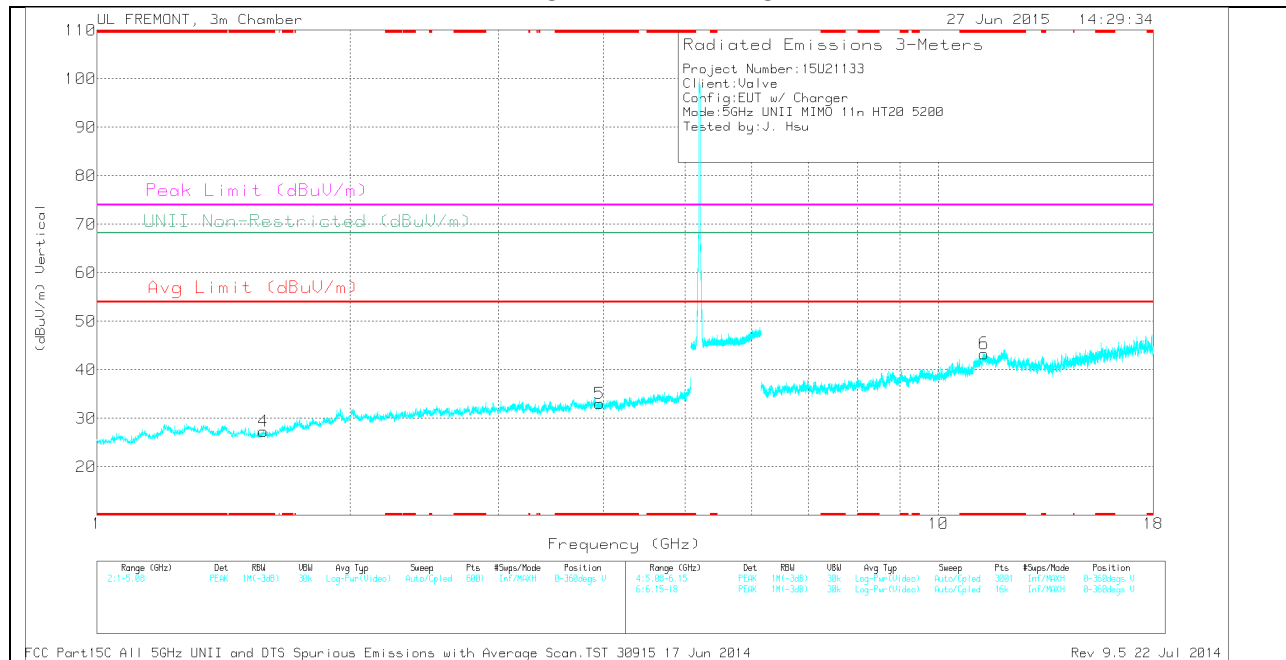
Rev 9.5 22 Jul 2014

MID CHANNEL HORIZONTAL



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

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.

## MID CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Fltr /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      | * 1.29          | 32.47                | PK  | 29.8           | -33                   | 29.27                      | -                  | -           | 74                  | -44.73         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 1.577         | 32.16                | PK  | 28             | -32.8                 | 27.36                      | -                  | -           | 74                  | -46.64         | -                            | -              | 0-360          | 200         | V        |
| 6      | * 11.34         | 27.96                | PK  | 38.1           | -22.7                 | 43.36                      | -                  | -           | 74                  | -30.64         | -                            | -              | 0-360          | 200         | V        |
| 2      | * 2.323         | 31.92                | PK  | 31.7           | -32                   | 31.62                      | -                  | -           | 74                  | -42.38         | -                            | -              | 0-360          | 100         | H        |
| 5      | * 3.957         | 30.59                | PK  | 33.2           | -30.8                 | 32.99                      | -                  | -           | 74                  | -41.01         | -                            | -              | 0-360          | 100         | V        |
| 3      | * 7.409         | 29.33                | PK  | 35.6           | -27.4                 | 37.53                      | -                  | -           | 74                  | -36.47         | -                            | -              | 0-360          | 200         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Fltr /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 |
|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.292         | 41.93                | PK1 | 29.8           | -33                   | 38.73                      | -                  | -           | 74                  | -35.27         | -                            | -              | 0              | 100         | H        |
| * 1.289         | 30.01                | AD1 | 29.8           | -33                   | 26.81                      | 54                 | -27.19      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 2.325         | 41.16                | PK1 | 31.7           | -31.9                 | 40.96                      | -                  | -           | 74                  | -33.04         | -                            | -              | 0              | 100         | H        |
| * 2.323         | 29.47                | AD1 | 31.7           | -32                   | 29.17                      | 54                 | -24.83      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 1.576         | 41.47                | PK1 | 28             | -32.8                 | 36.67                      | -                  | -           | 74                  | -37.33         | -                            | -              | 0              | 100         | V        |
| * 1.575         | 29.98                | AD1 | 28             | -32.8                 | 25.18                      | 54                 | -28.82      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 3.956         | 40.32                | PK1 | 33.2           | -30.7                 | 42.82                      | -                  | -           | 74                  | -31.18         | -                            | -              | 0              | 100         | V        |
| * 3.958         | 28.96                | AD1 | 33.2           | -30.8                 | 31.36                      | 54                 | -22.64      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 7.409         | 38.62                | PK1 | 35.6           | -27.4                 | 46.82                      | -                  | -           | 74                  | -27.18         | -                            | -              | 0              | 100         | H        |
| * 7.409         | 27.25                | AD1 | 35.6           | -27.3                 | 35.55                      | 54                 | -18.45      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 11.341        | 37.76                | PK1 | 38.1           | -22.7                 | 53.16                      | -                  | -           | 74                  | -20.84         | -                            | -              | 0              | 100         | V        |
| * 11.342        | 25.64                | AD1 | 38.1           | -22.7                 | 41.04                      | 54                 | -12.96      | -                   | -              | -                            | -              | 0              | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

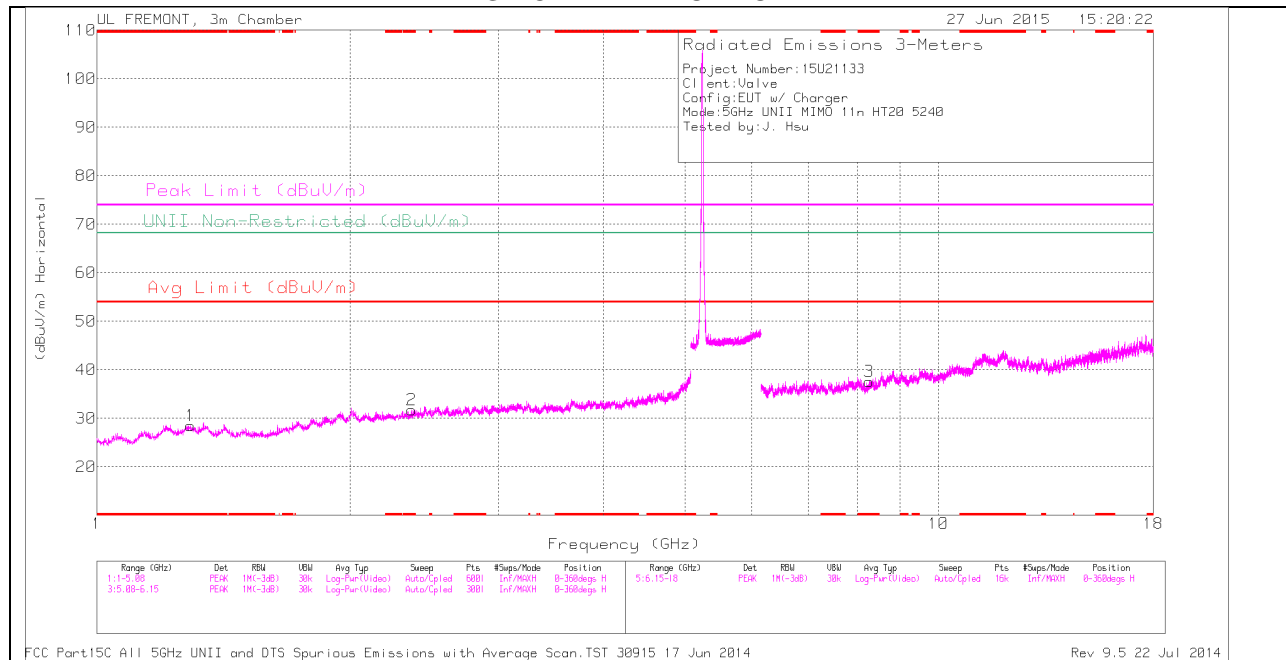
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

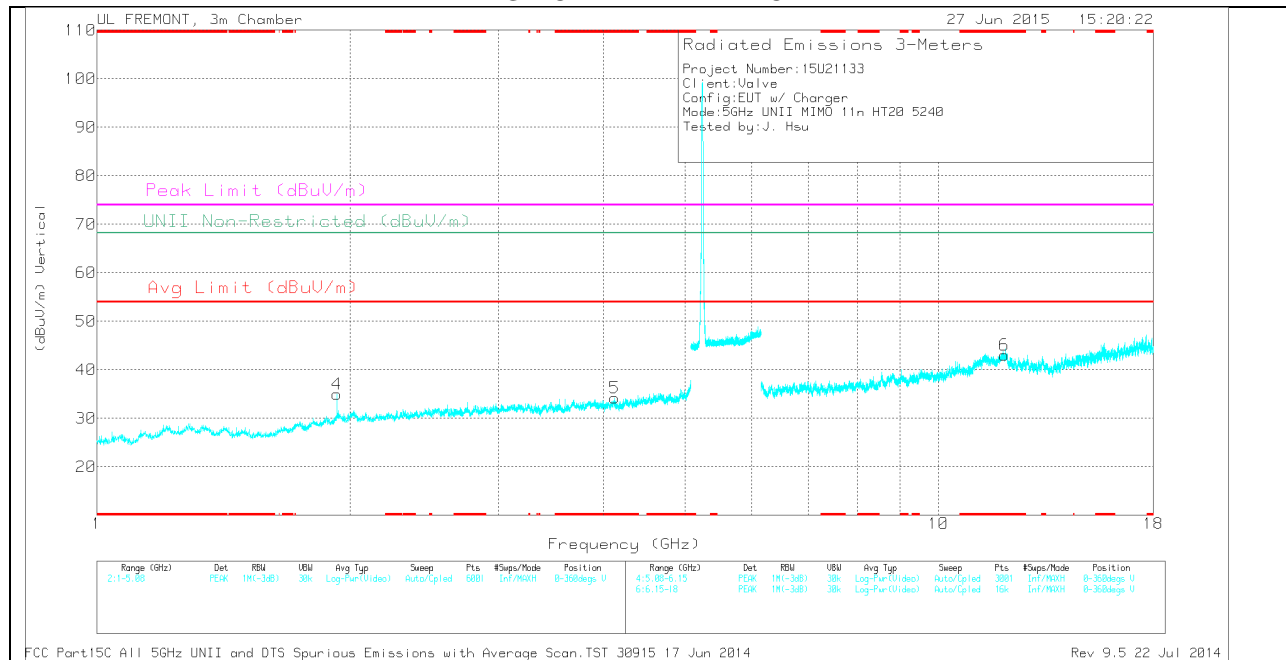
Rev 9.5 22 Jul 2014

### HIGH CHANNEL HORIZONTAL



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

### 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.

## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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      | * 1.291         | 31.67                | PK  | 29.8           | -33                   | 28.47                      | -                  | -           | 74                  | -45.53         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 2.367         | 31.99                | PK  | 31.9           | -32.1                 | 31.79                      | -                  | -           | 74                  | -42.21         | -                            | -              | 0-360          | 100         | H        |
| 5      | * 4.124         | 31.28                | PK  | 33.3           | -30.4                 | 34.18                      | -                  | -           | 74                  | -39.82         | -                            | -              | 0-360          | 200         | V        |
| 3      | * 8.267         | 28.65                | PK  | 35.8           | -26.9                 | 37.55                      | -                  | -           | 74                  | -36.45         | -                            | -              | 0-360          | 200         | H        |
| 6      | * 11.973        | 27.68                | PK  | 39.1           | -23.7                 | 43.08                      | -                  | -           | 74                  | -30.92         | -                            | -              | 0-360          | 200         | V        |
| 4      | 1.929           | 35.68                | PK  | 31.2           | -31.9                 | 34.98                      | -                  | -           | -                   | -              | 68.2                         | -33.22         | 0-360          | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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 |
|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.289         | 41.67                | PK1 | 29.8           | -33                   | 38.47                      | -                  | -           | 74                  | -35.53         | -                            | -              | 0              | 100         | H        |
| * 1.29          | 30.04                | AD1 | 29.8           | -33                   | 26.84                      | 54                 | -27.16      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 2.366         | 41                   | PK1 | 31.9           | -32.1                 | 40.8                       | -                  | -           | 74                  | -33.2          | -                            | -              | 0              | 100         | H        |
| * 2.366         | 29.42                | AD1 | 31.9           | -32.1                 | 29.22                      | 54                 | -24.78      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 4.123         | 40.99                | PK1 | 33.3           | -30.4                 | 43.89                      | -                  | -           | 74                  | -30.11         | -                            | -              | 0              | 100         | V        |
| * 4.122         | 29.07                | AD1 | 33.3           | -30.4                 | 31.97                      | 54                 | -22.03      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 8.268         | 38.7                 | PK1 | 35.8           | -26.9                 | 47.6                       | -                  | -           | 74                  | -26.4          | -                            | -              | 0              | 100         | H        |
| * 8.266         | 27.02                | AD1 | 35.8           | -26.9                 | 35.92                      | 54                 | -18.08      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 11.973        | 36.64                | PK1 | 39.1           | -23.7                 | 52.04                      | -                  | -           | 74                  | -21.96         | -                            | -              | 0              | 100         | V        |
| * 11.973        | 25.41                | AD1 | 39.1           | -23.7                 | 40.81                      | 54                 | -13.19      | -                   | -              | -                            | -              | 0              | 100         | V        |
| 1.929           | 42.82                | PK1 | 31.2           | -31.9                 | 42.12                      | -                  | -           | -                   | -              | 68.2                         | -26.08         | 0              | 100         | V        |
| 1.931           | 29.59                | AD1 | 31.2           | -31.9                 | 28.89                      | -                  | -           | -                   | -              | -                            | -              | 0              | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

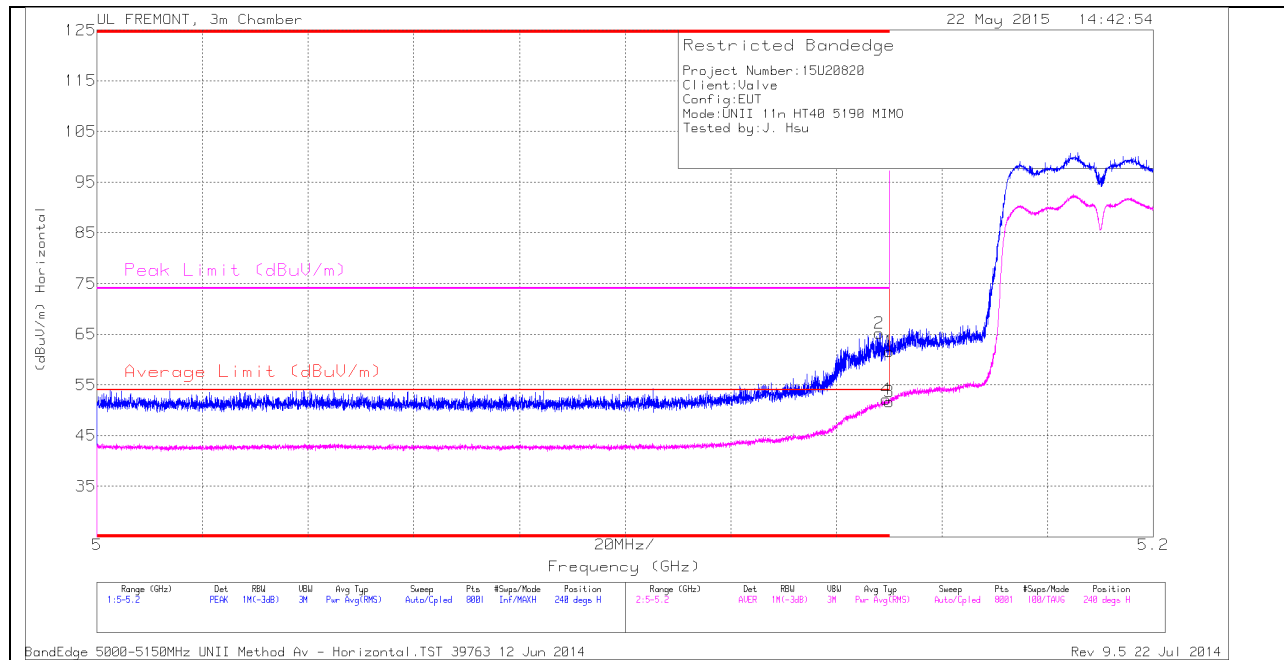
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014



# 13.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

## HORIZONTAL PEAK AND AVERAGE PLOT



## HORIZONTAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filter/Pad (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      | * 5.15          | 49.03                | PK  | 34.2           | -21.6                  | 0            | 61.63                      | -                      | -           | 74                  | -12.37         | 240            | 202         | H        |
| 2      | * 5.148         | 52.57                | PK  | 34.2           | -21.6                  | 0            | 65.17                      | -                      | -           | 74                  | -8.83          | 240            | 202         | H        |
| 3      | * 5.15          | 38.41                | RMS | 34.2           | -21.6                  | .64          | 51.65                      | 54                     | -2.35       | -                   | -              | 240            | 202         | H        |
| 4      | * 5.149         | 38.91                | RMS | 34.2           | -21.6                  | .64          | 52.15                      | 54                     | -1.85       | -                   | -              | 240            | 202         | H        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

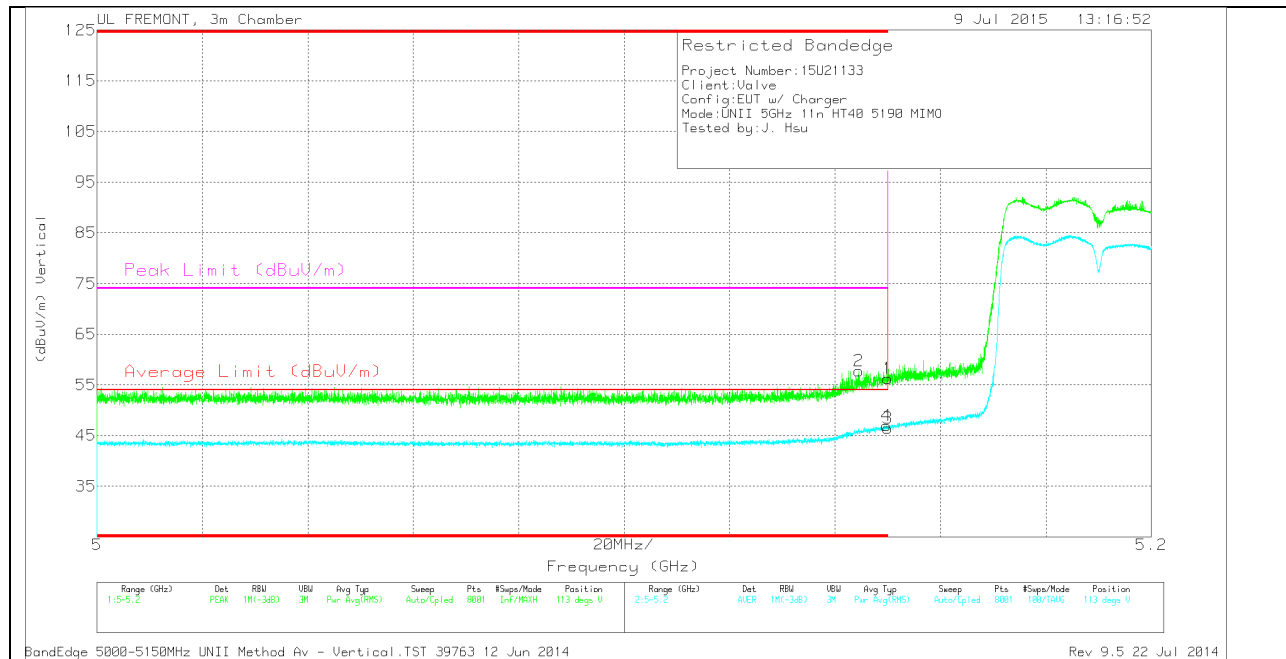
PK - Peak detector

RMS - RMS detection

BandEdge 5000-5150MHz UNII Method Av - Horizontal.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fit r/Pad (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      | * 5.15          | 42.86                | PK  | 34.2           | -20.8                  | 0            | 56.26                      | -                      | -           | 74                  | -17.74         | 113            | 102         | V        |
| 2      | * 5.145         | 44.23                | PK  | 34.2           | -20.7                  | 0            | 57.73                      | -                      | -           | 74                  | -16.27         | 113            | 102         | V        |
| 3      | * 5.15          | 32.24                | RMS | 34.2           | -20.8                  | .8           | 46.44                      | 54                     | -7.56       | -                   | -              | 113            | 102         | V        |
| 4      | * 5.15          | 32.7                 | RMS | 34.2           | -20.8                  | .8           | 46.9                       | 54                     | -7.1        | -                   | -              | 113            | 102         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

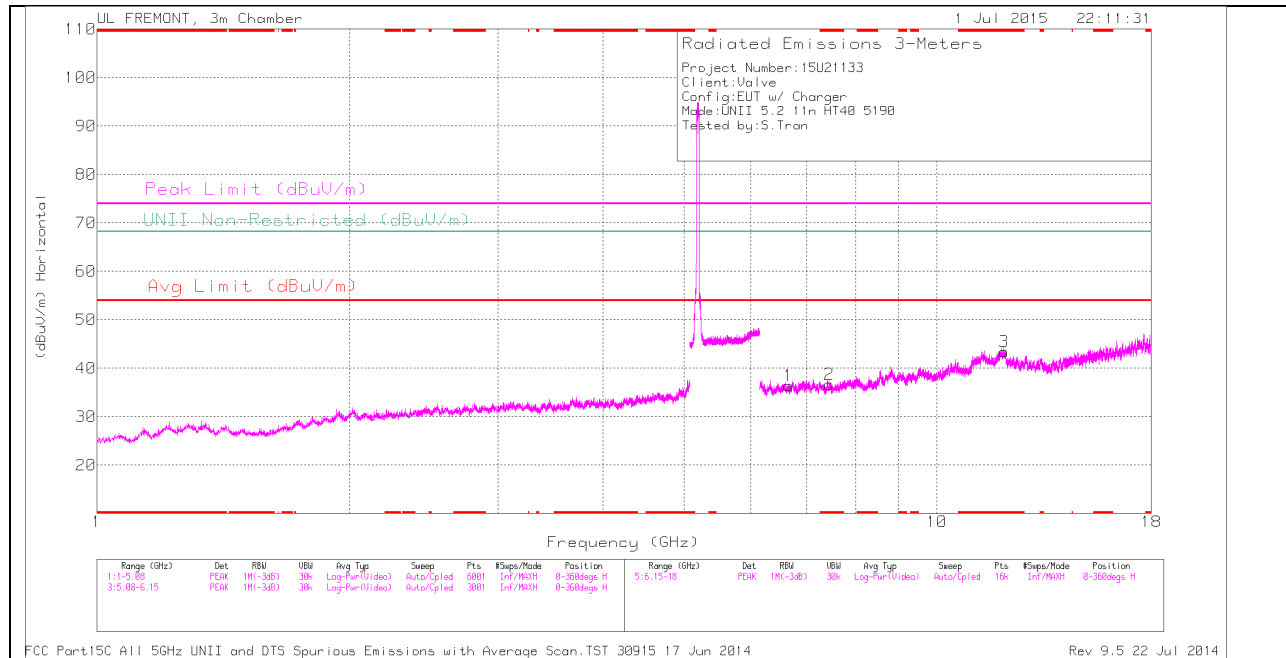
RMS - RMS detection

BandEdge 5000-5150MHz UNII Method Av - Vertical.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

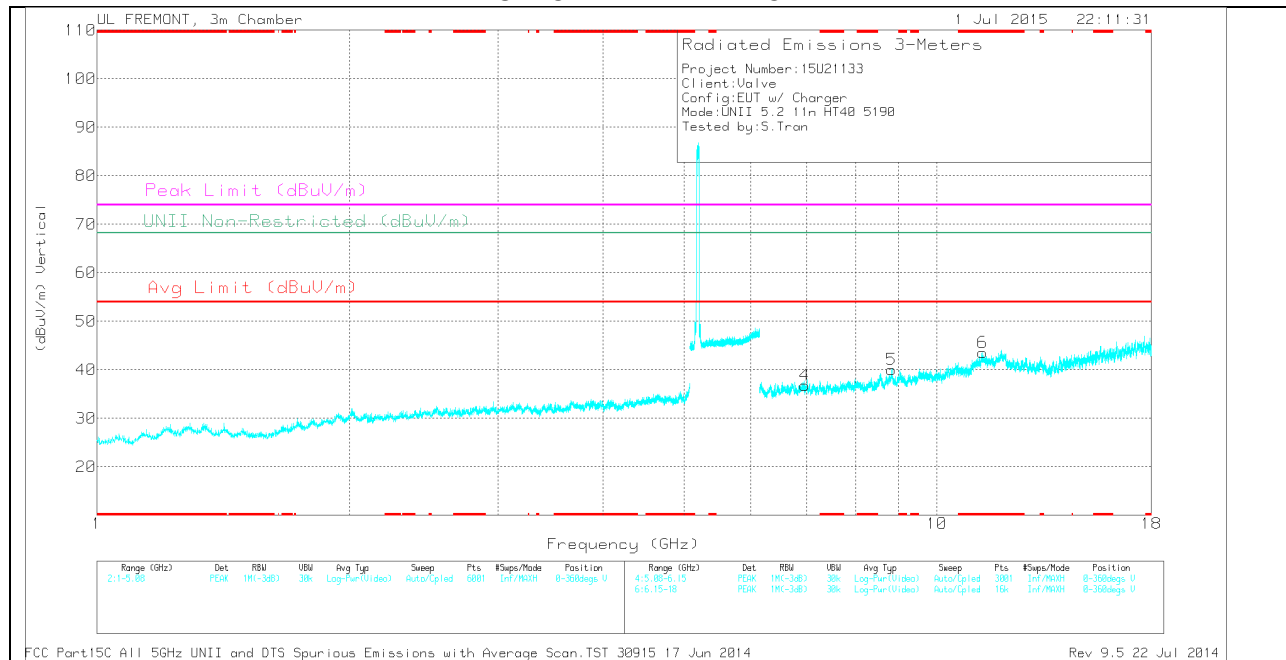
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

### 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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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      | * 7.443         | 28.93                | PK  | 35.7           | -27.9                | 0            | 36.73                      | -                  | -           | 74                  | -37.27         | -                            | -              | 0-360          | 100         | H        |
| 3      | * 12.014        | 27.83                | PK  | 39.1           | -23.5                | 0            | 43.43                      | -                  | -           | 74                  | -30.57         | -                            | -              | 0-360          | 200         | H        |
| 6      | * 11.34         | 28.19                | PK  | 38.1           | -22.7                | 0            | 43.59                      | -                  | -           | 74                  | -30.41         | -                            | -              | 0-360          | 100         | V        |
| 1      | 6.656           | 29.85                | PK  | 35.6           | -29                  | 0            | 36.45                      | -                  | -           | -                   | -              | 68.2                         | -31.75         | 0-360          | 100         | H        |
| 4      | 6.962           | 29.06                | PK  | 35.6           | -27.8                | 0            | 36.86                      | -                  | -           | -                   | -              | 68.2                         | -31.34         | 0-360          | 100         | V        |
| 5      | 8.831           | 28.48                | PK  | 35.9           | -24.3                | 0            | 40.08                      | -                  | -           | -                   | -              | 68.2                         | -28.12         | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 7.443         | 39.15                | PK1 | 35.7           | -27.9                | 0            | 46.95                      | -                  | -           | 74                  | -27.05         | -                            | -              | 275            | 100         | H        |
| * 7.443         | 27.17                | AD1 | 35.7           | -27.9                | .8           | 35.77                      | 54                 | -18.23      | -                   | -              | -                            | -              | 275            | 100         | H        |
| * 12.015        | 36.51                | PK1 | 39.1           | -23.5                | 0            | 52.11                      | -                  | -           | 74                  | -21.89         | -                            | -              | 275            | 200         | H        |
| * 12.016        | 25.08                | AD1 | 39.1           | -23.6                | .8           | 41.38                      | 54                 | -12.62      | -                   | -              | -                            | -              | 275            | 200         | H        |
| * 11.341        | 36.55                | PK1 | 38.1           | -22.7                | 0            | 51.95                      | -                  | -           | 74                  | -22.05         | -                            | -              | 275            | 100         | V        |
| * 11.342        | 25.38                | AD1 | 38.1           | -22.7                | .8           | 41.58                      | 54                 | -12.42      | -                   | -              | -                            | -              | 275            | 100         | V        |
| 6.654           | 39.66                | PK1 | 35.6           | -29                  | 0            | 46.26                      | -                  | -           | -                   | -              | 68.2                         | -21.94         | 275            | 100         | H        |
| 6.654           | 27.93                | AD1 | 35.6           | -29                  | .8           | 35.33                      | -                  | -           | -                   | -              | -                            | -              | 275            | 100         | H        |
| 6.963           | 37.97                | PK1 | 35.6           | -27.8                | 0            | 45.77                      | -                  | -           | -                   | -              | 68.2                         | -22.43         | 275            | 100         | V        |
| 6.964           | 27.08                | AD1 | 35.6           | -27.9                | .8           | 35.58                      | -                  | -           | -                   | -              | -                            | -              | 275            | 100         | V        |
| 8.831           | 36.54                | PK1 | 35.9           | -24.3                | 0            | 48.14                      | -                  | -           | -                   | -              | 68.2                         | -20.06         | 275            | 100         | V        |
| 8.833           | 25.2                 | AD1 | 35.9           | -24.3                | .8           | 37.6                       | -                  | -           | -                   | -              | -                            | -              | 275            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

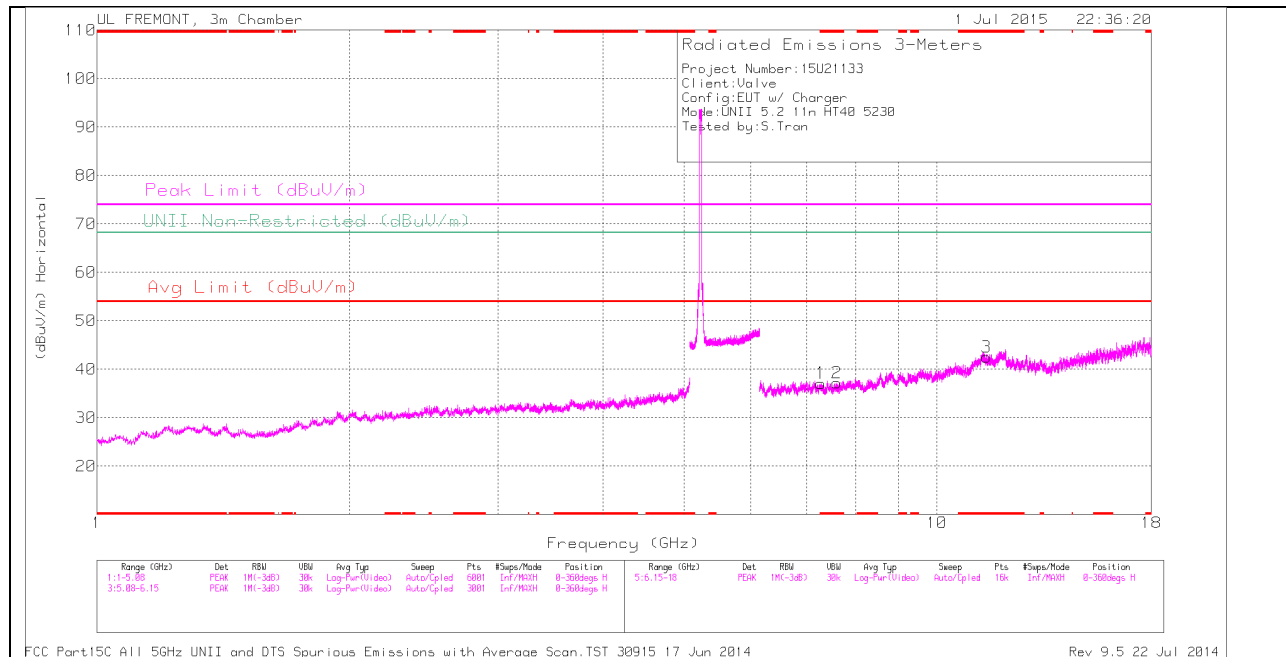
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

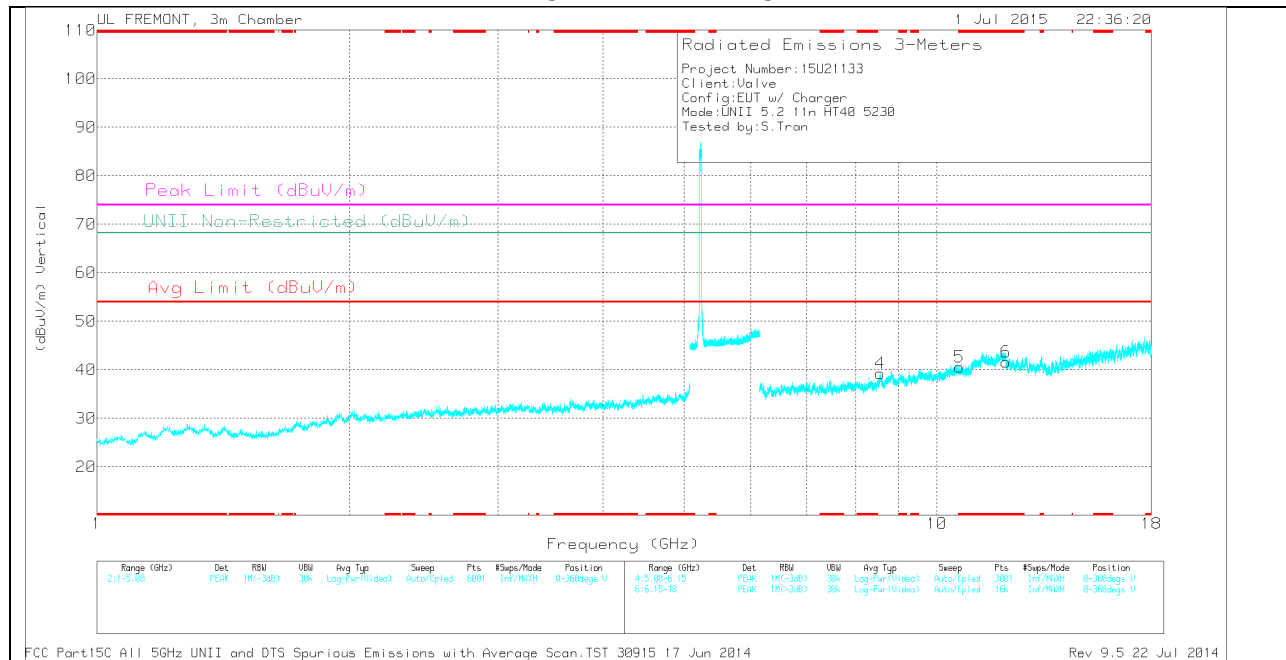
Rev 9.5 22 Jul 2014

MID CHANNEL HORIZONTAL



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

### 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.

# MID CHANNEL DATA

## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1      | * 7.273         | 30.03                | PK  | 35.6           | -28.5                 | 0            | 37.13                      | -                  | -           | 74                  | -36.87         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 7.604         | 28.94                | PK  | 35.7           | -27.5                 | 0            | 37.14                      | -                  | -           | 74                  | -36.86         | -                            | -              | 0-360          | 100         | H        |
| 3      | * 11.445        | 27.06                | PK  | 38.3           | -22.9                 | 0            | 42.46                      | -                  | -           | 74                  | -31.54         | -                            | -              | 0-360          | 200         | H        |
| 5      | * 10.634        | 26.52                | PK  | 37.7           | -23.6                 | 0            | 40.62                      | -                  | -           | 74                  | -33.38         | -                            | -              | 0-360          | 100         | V        |
| 6      | * 12.089        | 26.85                | PK  | 39             | -24.2                 | 0            | 41.65                      | -                  | -           | 74                  | -32.35         | -                            | -              | 0-360          | 200         | V        |
| 4      | 8.558           | 28.15                | PK  | 35.8           | -24.7                 | 0            | 39.25                      | -                  | -           | -                   | -              | 68.2                         | -28.95         | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

## Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 7.275         | 39.04                | PK1 | 35.6           | -28.5                 | 0            | 46.14                      | -                  | -           | 74                  | -27.86         | -                            | -              | 360            | 200         | H        |
| * 7.275         | 27.44                | AD1 | 35.6           | -28.5                 | .8           | 35.34                      | 54                 | -18.66      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 7.602         | 39.11                | PK1 | 35.7           | -27.6                 | 0            | 47.21                      | -                  | -           | 74                  | -26.79         | -                            | -              | 360            | 100         | H        |
| * 7.603         | 27.08                | AD1 | 35.7           | -27.6                 | .8           | 35.98                      | 54                 | -18.02      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 11.447        | 36.61                | PK1 | 38.3           | -22.9                 | 0            | 52.01                      | -                  | -           | 74                  | -21.99         | -                            | -              | 360            | 200         | H        |
| * 11.447        | 24.68                | AD1 | 38.3           | -22.9                 | .8           | 40.88                      | 54                 | -13.12      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 10.635        | 35.4                 | PK1 | 37.7           | -23.6                 | 0            | 49.5                       | -                  | -           | 74                  | -24.5          | -                            | -              | 360            | 100         | V        |
| * 10.636        | 24.33                | AD1 | 37.7           | -23.6                 | .8           | 39.23                      | 54                 | -14.77      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 12.09         | 37.29                | PK1 | 39             | -24.2                 | 0            | 52.09                      | -                  | -           | 74                  | -21.91         | -                            | -              | 360            | 200         | V        |
| * 12.091        | 25.6                 | AD1 | 39             | -24.2                 | .8           | 41.2                       | 54                 | -12.8       | -                   | -              | -                            | -              | 360            | 200         | V        |
| 8.557           | 37.62                | PK1 | 35.8           | -24.7                 | 0            | 48.72                      | -                  | -           | -                   | -              | 68.2                         | -19.48         | 360            | 100         | V        |
| 8.56            | 25.64                | AD1 | 35.8           | -24.6                 | .8           | 37.64                      | -                  | -           | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

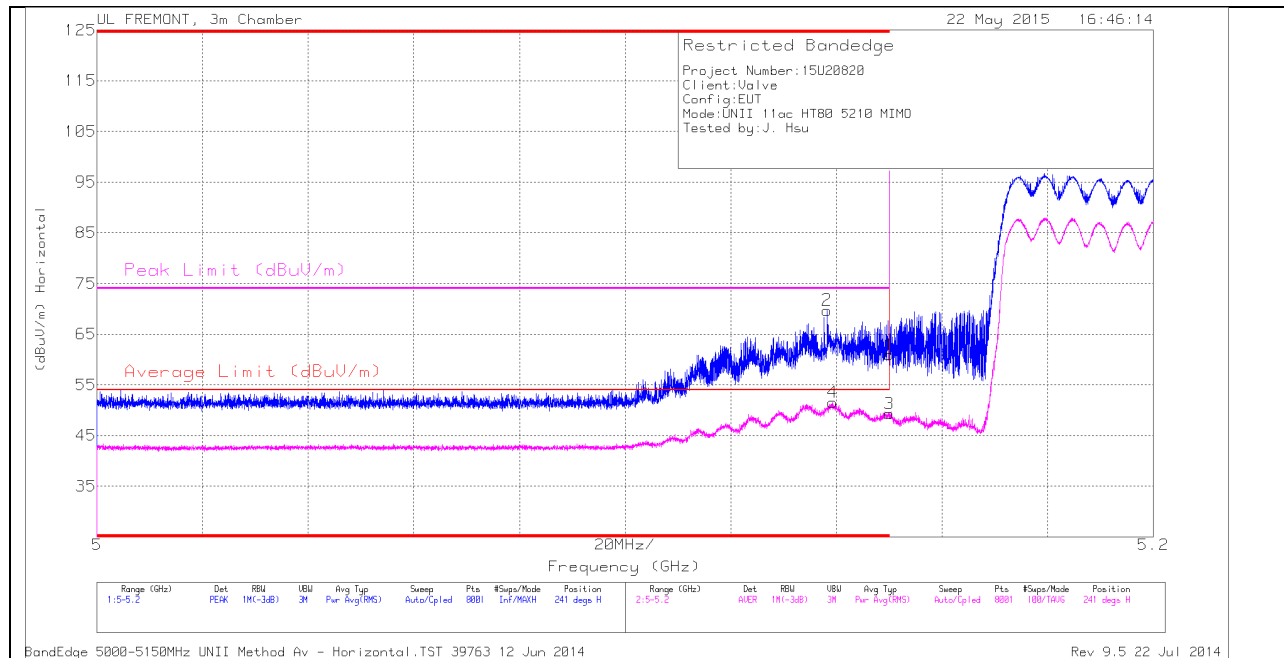
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014



# **13.1.4. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)**

## **HORIZONTAL PEAK AND AVERAGE PLOT**



## **HORIZONTAL DATA**

### **Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fit r/Pad (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      | * 5.15          | 48.38                | PK  | 34.2           | -21.6                  | 0            | 60.98                      | -                      | -           | 74                  | -13.02         | 241            | 334         | H        |
| 2      | * 5.138         | 57.12                | PK  | 34.2           | -21.6                  | 0            | 69.72                      | -                      | -           | 74                  | -4.28          | 241            | 334         | H        |
| 3      | * 5.15          | 36.07                | RMS | 34.2           | -21.6                  | .66          | 49.33                      | 54                     | -4.67       | -                   | -              | 241            | 334         | H        |
| 4      | * 5.139         | 38.27                | RMS | 34.2           | -21.6                  | .66          | 51.53                      | 54                     | -2.47       | -                   | -              | 241            | 334         | H        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

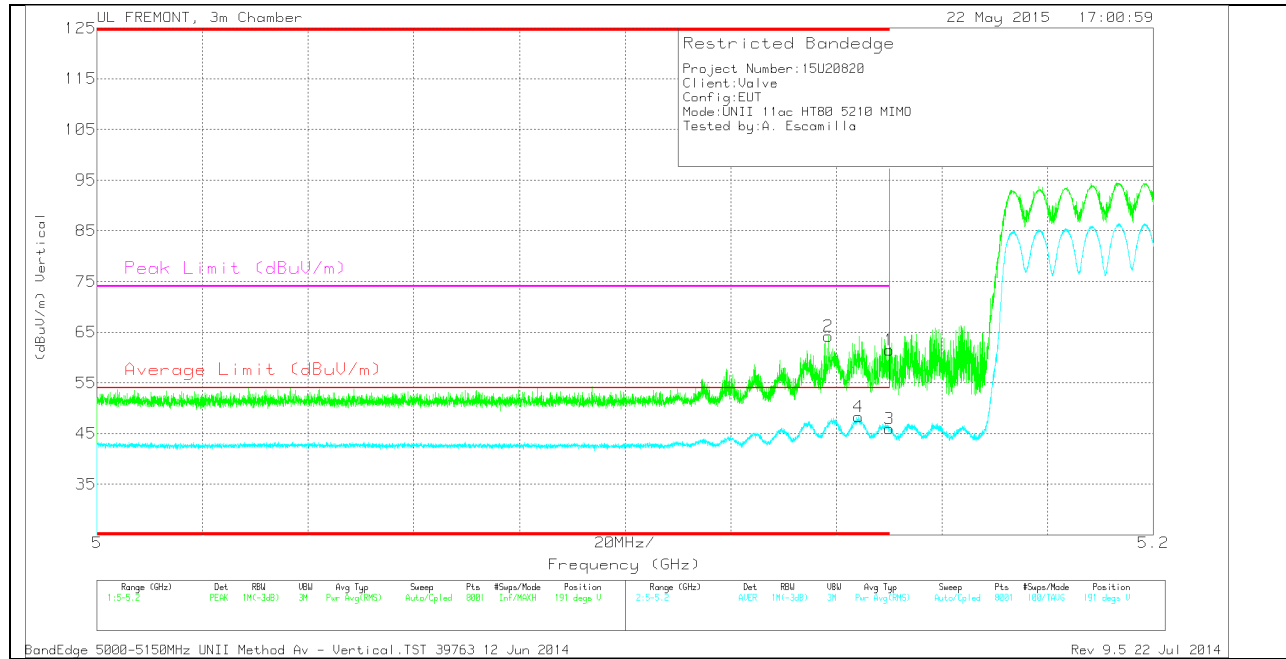
PK - Peak detector

RMS - RMS detection

BandEdge 5000-5150MHz UNII Method Av - Horizontal.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fitter/Pad (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      | * 5.15          | 48.88                | PK  | 34.2           | -21.6                   | 0            | 61.48                      | -                      | -           | 74                  | -12.52         | 191            | 334         | V        |
| 2      | * 5.138         | 51.63                | PK  | 34.2           | -21.6                   | 0            | 64.23                      | -                      | -           | 74                  | -9.77          | 191            | 334         | V        |
| 3      | * 5.15          | 32.63                | RMS | 34.2           | -21.6                   | .66          | 45.89                      | 54                     | -8.11       | -                   | -              | 191            | 334         | V        |
| 4      | * 5.144         | 35                   | RMS | 34.2           | -21.6                   | .66          | 48.26                      | 54                     | -5.74       | -                   | -              | 191            | 334         | V        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

PK - Peak detector

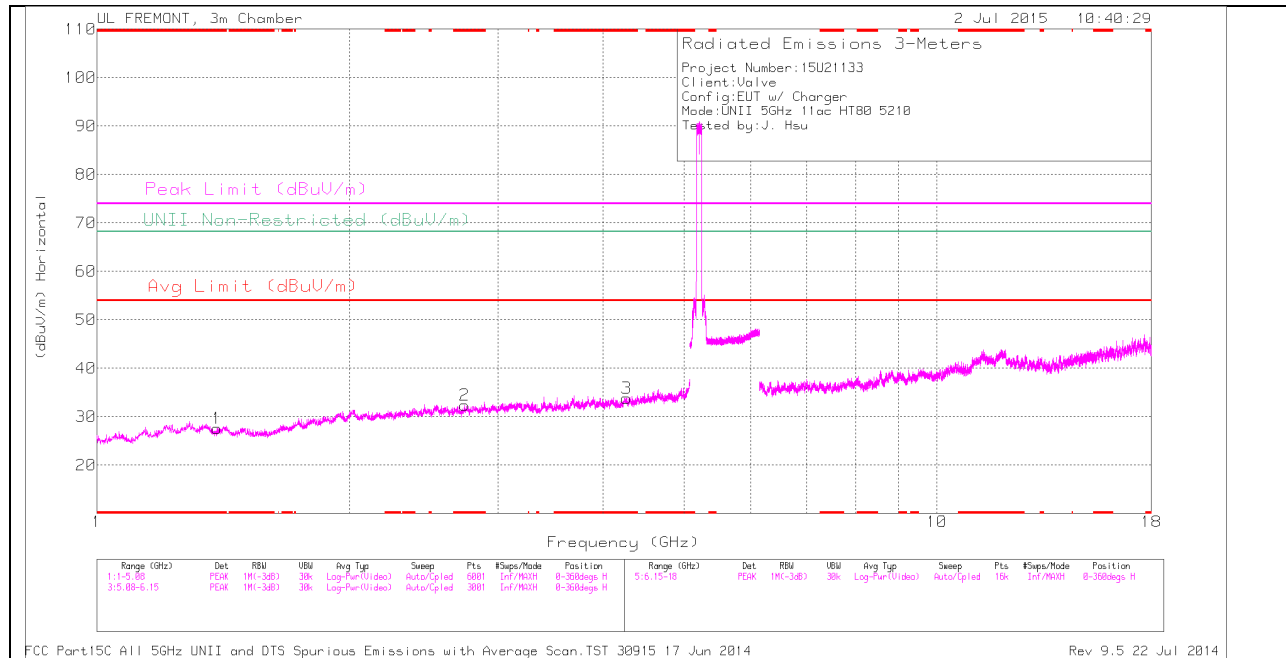
RMS - RMS detection

BandEdge 5000-5150MHz UNII Method Av - Vertical.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

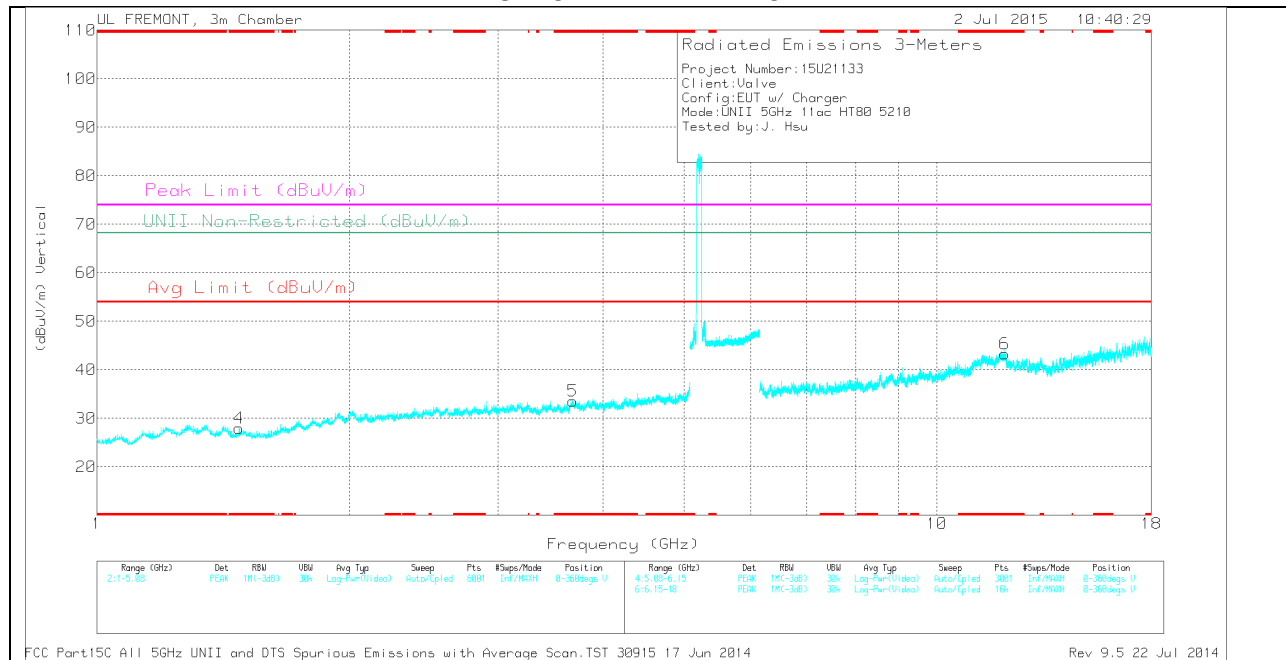
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

### 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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/ Ftr/Pad (dB) | DC Corr (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      | * 1.389         | 31.1                 | PK  | 28.8           | -32.3                 | 0            | 27.6                       | -                  | -           | 74                  | -46.4          | -                            | -              | 0-360          | 100         | H        |
| 2      | * 2.74          | 31.53                | PK  | 32.4           | -31.5                 | 0            | 32.43                      | -                  | -           | 74                  | -41.57         | -                            | -              | 0-360          | 100         | H        |
| 3      | * 4.27          | 30.22                | PK  | 33.4           | -29.8                 | 0            | 33.82                      | -                  | -           | 74                  | -40.18         | -                            | -              | 0-360          | 200         | H        |
| 4      | * 1.477         | 32.03                | PK  | 28.2           | -32.2                 | 0            | 28.03                      | -                  | -           | 74                  | -45.97         | -                            | -              | 0-360          | 100         | V        |
| 5      | * 3.687         | 30.45                | PK  | 33             | -29.9                 | 0            | 33.55                      | -                  | -           | 74                  | -40.45         | -                            | -              | 0-360          | 200         | V        |
| 6      | * 12.045        | 27.56                | PK  | 39.1           | -23.4                 | 0            | 43.26                      | -                  | -           | 74                  | -30.74         | -                            | -              | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/F tr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.387         | 40.44                | PK1 | 28.8           | -32.4                 | 0            | 36.84                      | -                  | -           | 74                  | -37.16         | -                            | -              | 360            | 100         | H        |
| * 1.389         | 28.79                | AD1 | 28.8           | -32.3                 | 1.02         | 26.31                      | 54                 | -27.69      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.738         | 40.9                 | PK1 | 32.4           | -31.6                 | 0            | 41.7                       | -                  | -           | 74                  | -32.3          | -                            | -              | 360            | 100         | H        |
| * 2.739         | 29.3                 | AD1 | 32.4           | -31.6                 | 1.02         | 31.12                      | 54                 | -22.88      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 4.272         | 39.78                | PK1 | 33.5           | -29.8                 | 0            | 43.48                      | -                  | -           | 74                  | -30.52         | -                            | -              | 360            | 100         | H        |
| * 4.272         | 28.08                | AD1 | 33.5           | -29.8                 | 1.02         | 32.8                       | 54                 | -21.2       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 1.477         | 41.11                | PK1 | 28.2           | -32.2                 | 0            | 37.11                      | -                  | -           | 74                  | -36.89         | -                            | -              | 360            | 100         | V        |
| * 1.475         | 29.26                | AD1 | 28.2           | -32.2                 | 1.02         | 26.28                      | 54                 | -27.72      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 3.687         | 40.26                | PK1 | 33             | -29.9                 | 0            | 43.36                      | -                  | -           | 74                  | -30.64         | -                            | -              | 360            | 100         | V        |
| * 3.685         | 28.56                | AD1 | 33             | -29.8                 | 1.02         | 32.78                      | 54                 | -21.22      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 12.046        | 37.23                | PK1 | 39.1           | -23.5                 | 0            | 52.83                      | -                  | -           | 74                  | -21.17         | -                            | -              | 360            | 100         | V        |
| * 12.047        | 25.3                 | AD1 | 39.1           | -23.5                 | 1.02         | 41.92                      | 54                 | -12.08      | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

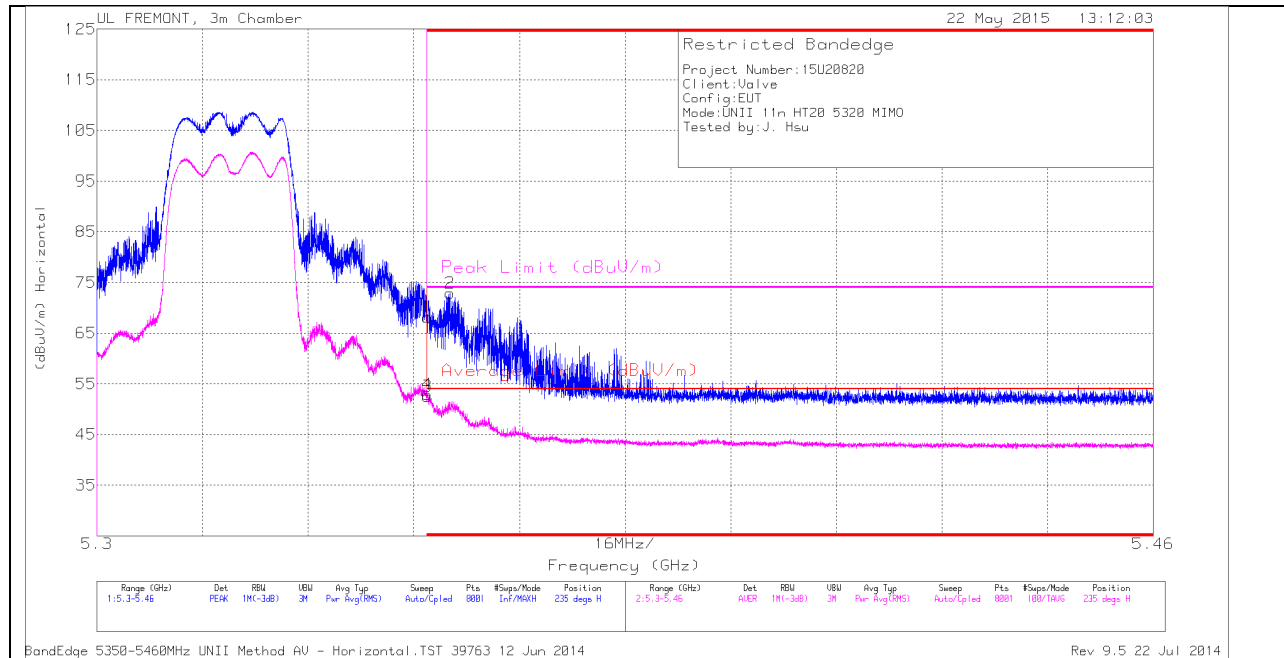
Rev 9.5 22 Jul 2014

## 13.1. 5.3 GHz

### 13.1.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

#### AUTHORIZED BANDEDGE (HIGH CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

##### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AFT119 (dB/m) | Amp/Cbl/Filtr/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          | 55.09                | PK  | 34.5          | -21.4                  | 68.19                      | -                      | -           | 74                  | -5.81          | 235            | 378         | H        |
| 2      | * 5.353         | 59.77                | PK  | 34.5          | -21.4                  | 72.87                      | -                      | -           | 74                  | -1.13          | 235            | 378         | H        |
| 3      | * 5.35          | 39.41                | RMS | 34.5          | -21.4                  | 52.51                      | 54                     | -1.49       | -                   | -              | 235            | 378         | H        |
| 4      | * 5.35          | 39.84                | RMS | 34.5          | -21.4                  | 52.94                      | 54                     | -1.06       | -                   | -              | 235            | 378         | H        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

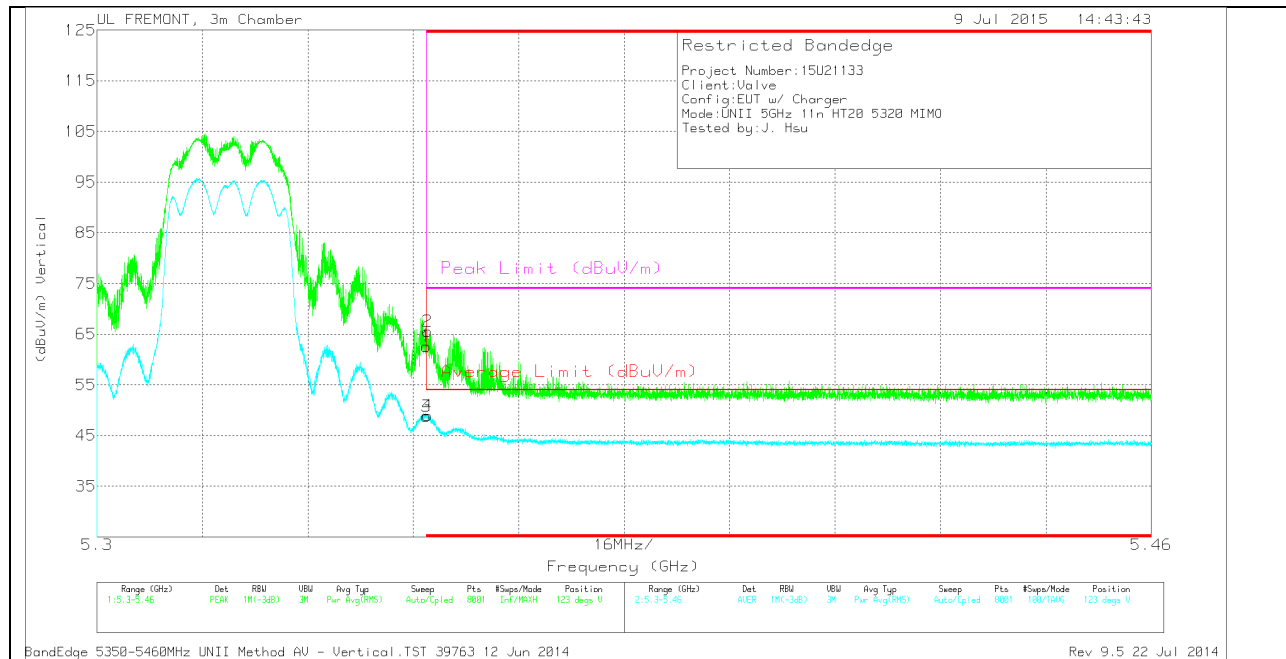
PK - Peak detector

RMS - RMS detection

BandEdge 5350-5460MHz UNII Method AV - Horizontal.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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 |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 48.61                | PK  | 34.5           | -20.5                 | 62.61                      | -                      | -           | 74                  | -11.39         | 123            | 106         | V        |
| 2      | * 5.35          | 51.58                | PK  | 34.5           | -20.5                 | 65.58                      | -                      | -           | 74                  | -8.42          | 123            | 106         | V        |
| 3      | * 5.35          | 34.76                | RMS | 34.5           | -20.5                 | 48.76                      | 54                     | -5.24       | -                   | -              | 123            | 106         | V        |
| 4      | * 5.35          | 34.93                | RMS | 34.5           | -20.5                 | 48.93                      | 54                     | -5.07       | -                   | -              | 123            | 106         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

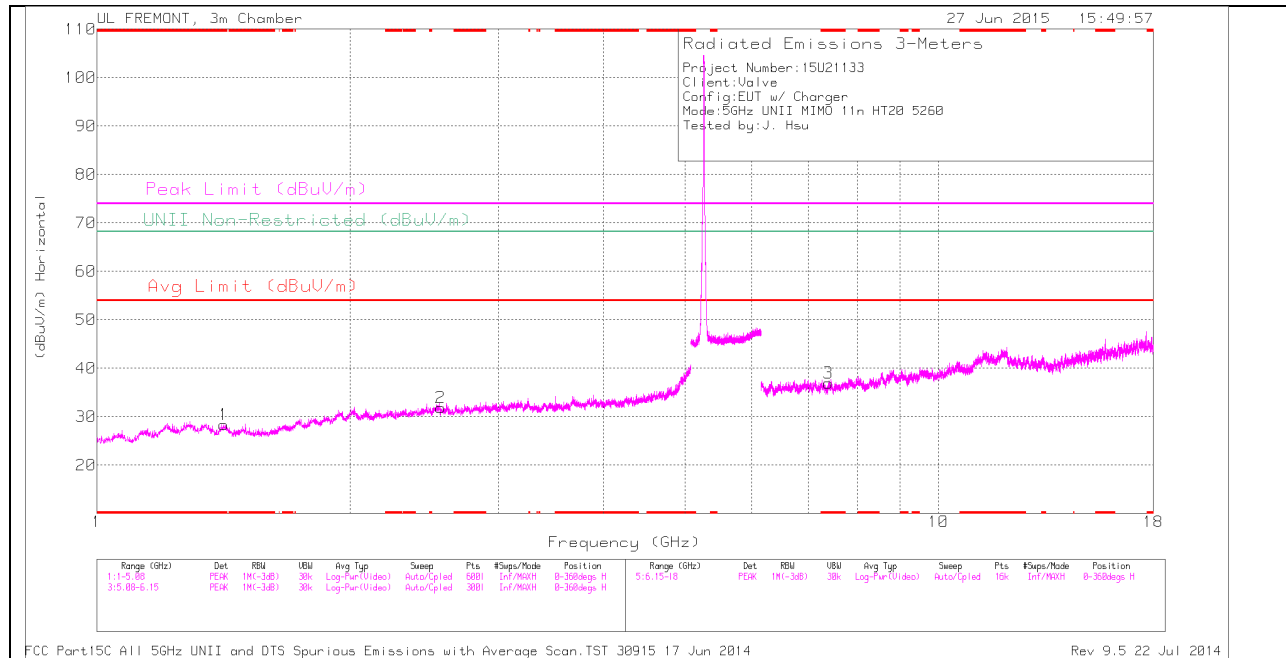
RMS - RMS detection

BandEdge 5350-5460MHz UNII Method AV - Vertical.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## HARMONICS AND SPURIOUS EMISSIONS

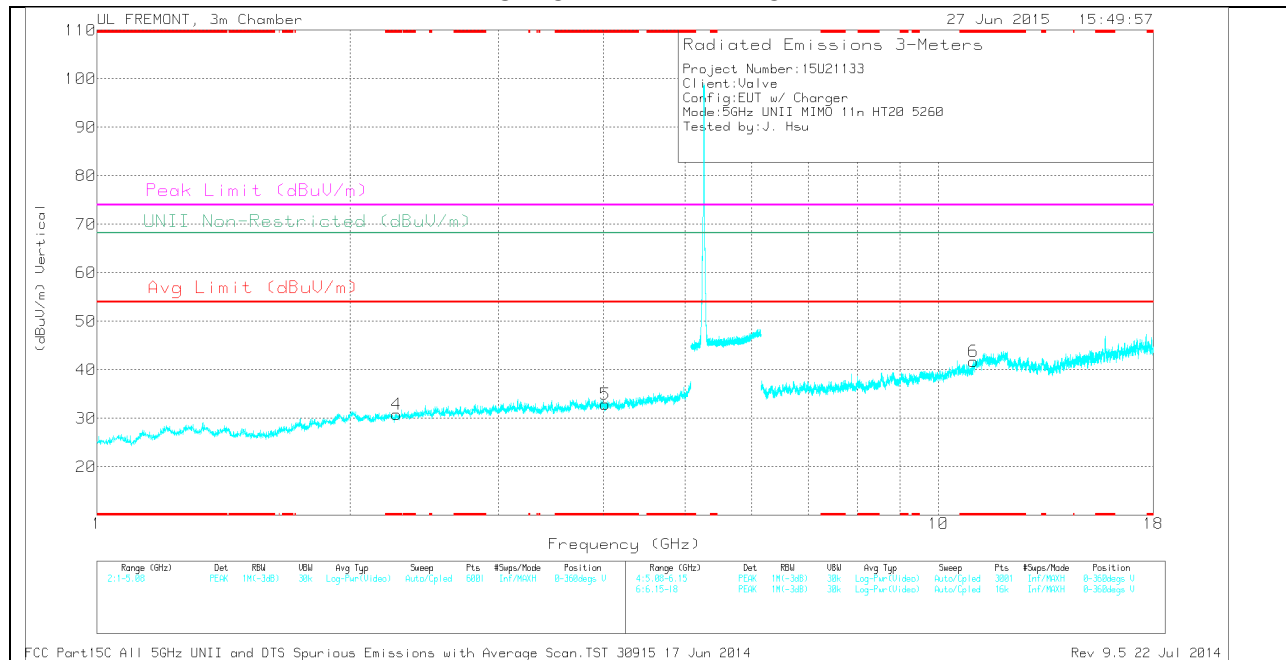
### LOW CHANNEL HORIZONTAL



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



### 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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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      | * 1.414         | 31.96                | PK  | 28.5           | -32.1                 | 28.36                      | -                  | -           | 74                  | -45.64         | -                            | -              | 0-360          | 200         | H        |
| 4      | * 2.27          | 30.71                | PK  | 31.6           | -31.5                 | 30.81                      | -                  | -           | 74                  | -43.19         | -                            | -              | 0-360          | 200         | V        |
| 5      | * 4.019         | 30.59                | PK  | 33.2           | -30.9                 | 32.89                      | -                  | -           | 74                  | -41.11         | -                            | -              | 0-360          | 100         | V        |
| 3      | * 7.398         | 29.03                | PK  | 35.6           | -27.7                 | 36.93                      | -                  | -           | 74                  | -37.07         | -                            | -              | 0-360          | 200         | H        |
| 6      | * 10.996        | 27.2                 | PK  | 37.9           | -23.4                 | 41.7                       | -                  | -           | 74                  | -32.3          | -                            | -              | 0-360          | 100         | V        |
| 2      | 2.561           | 30.96                | PK  | 32.4           | -31.5                 | 31.86                      | -                  | -           | -                   | -              | 68.2                         | -36.34         | 0-360          | 100         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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 |
|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.415         | 41.26                | PK1 | 28.5           | -32.1                 | 37.66                      | -                  | -           | 74                  | -36.34         | -                            | -              | 0              | 100         | H        |
| * 1.415         | 29.96                | AD1 | 28.5           | -32.1                 | 26.36                      | 54                 | -27.64      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 2.271         | 40.62                | PK1 | 31.6           | -31.6                 | 40.62                      | -                  | -           | 74                  | -33.38         | -                            | -              | 0              | 100         | V        |
| * 2.272         | 29.03                | AD1 | 31.6           | -31.6                 | 29.03                      | 54                 | -24.97      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 4.018         | 40.16                | PK1 | 33.2           | -30.9                 | 42.46                      | -                  | -           | 74                  | -31.54         | -                            | -              | 0              | 100         | V        |
| * 4.018         | 28.88                | AD1 | 33.2           | -30.9                 | 31.18                      | 54                 | -22.82      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 7.398         | 38.78                | PK1 | 35.6           | -27.7                 | 46.68                      | -                  | -           | 74                  | -27.32         | -                            | -              | 0              | 100         | H        |
| * 7.398         | 27.33                | AD1 | 35.6           | -27.7                 | 35.23                      | 54                 | -18.77      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 10.996        | 36.71                | PK1 | 37.9           | -23.5                 | 51.11                      | -                  | -           | 74                  | -22.89         | -                            | -              | 0              | 100         | V        |
| * 10.995        | 25.01                | AD1 | 37.9           | -23.5                 | 39.41                      | 54                 | -14.59      | -                   | -              | -                            | -              | 0              | 100         | V        |
| 2.56            | 40.25                | PK1 | 32.4           | -31.5                 | 41.15                      | -                  | -           | -                   | -              | 68.2                         | -27.05         | 0              | 100         | H        |
| 2.563           | 28.82                | AD1 | 32.4           | -31.5                 | 29.72                      | -                  | -           | -                   | -              | -                            | -              | 0              | 100         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

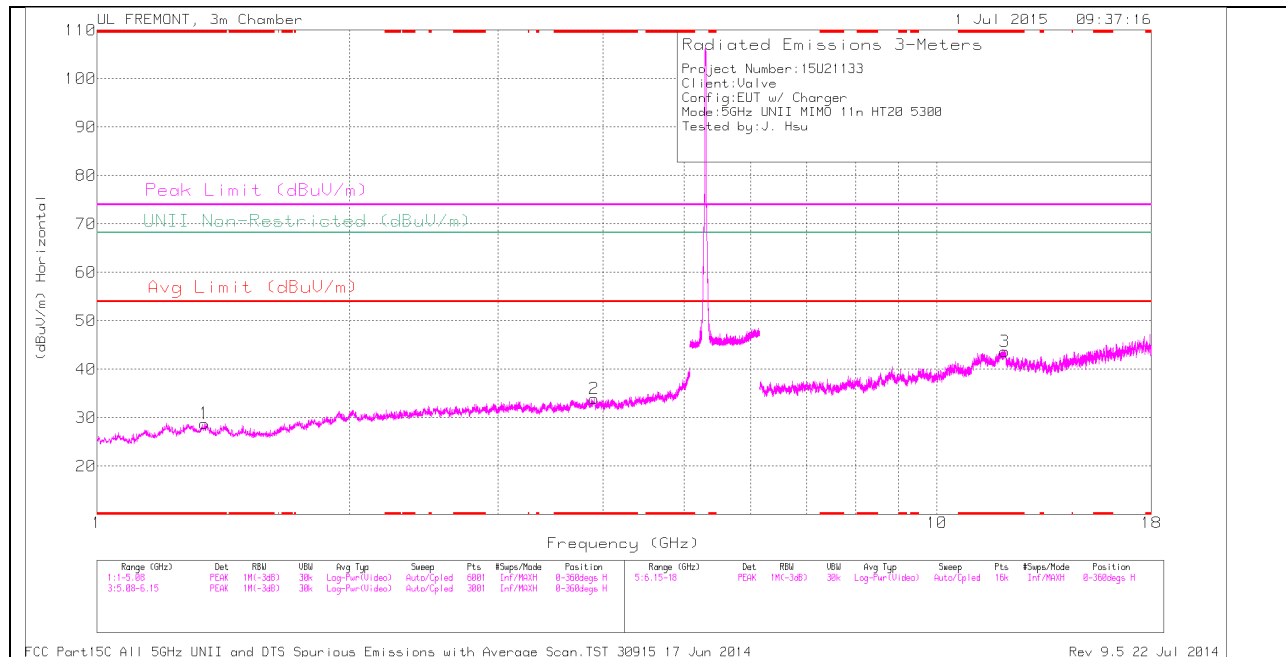
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

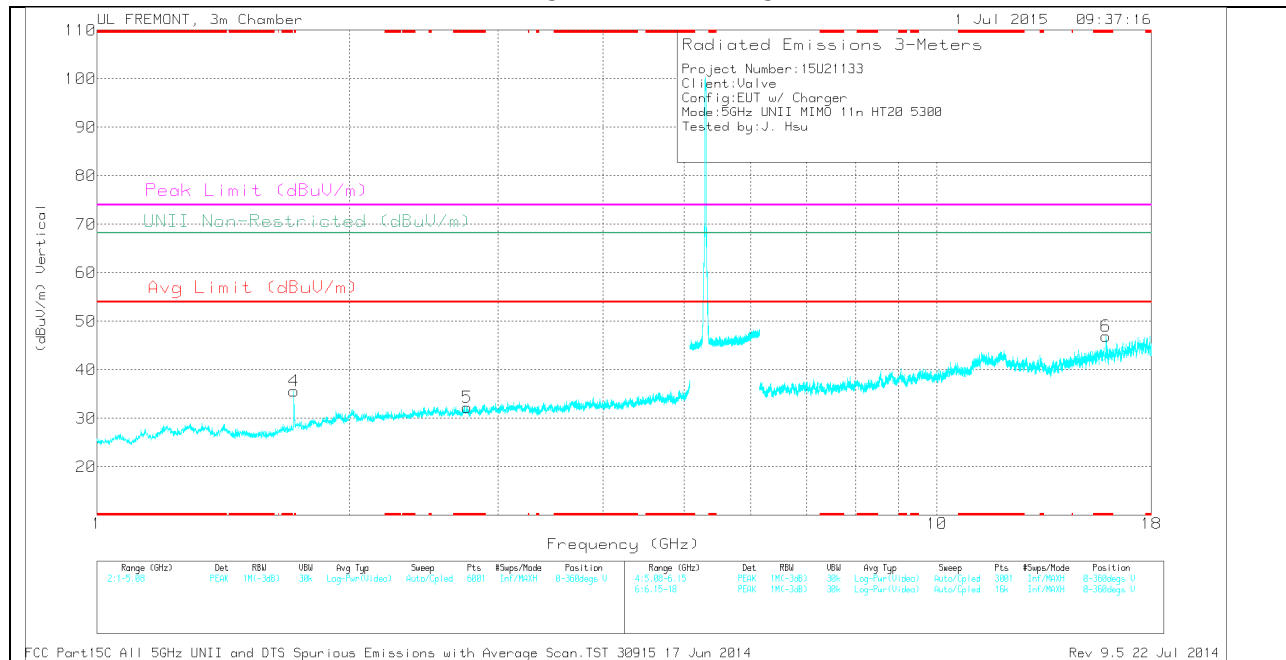
Rev 9.5 22 Jul 2014

MID CHANNEL HORIZONTAL



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

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.

## MID CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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      | * 1.342         | 32.22                | PK  | 29.4           | -32.8                  | 28.82                      | -                  | -           | 74                  | -45.18         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 3.907         | 31.07                | PK  | 33.2           | -30.3                  | 33.97                      | -                  | -           | 74                  | -40.03         | -                            | -              | 0-360          | 200         | H        |
| 5      | * 2.757         | 31.34                | PK  | 32.5           | -31.6                  | 32.24                      | -                  | -           | 74                  | -41.76         | -                            | -              | 0-360          | 200         | V        |
| 3      | * 12.03         | 28.13                | PK  | 39.1           | -23.5                  | 43.73                      | -                  | -           | 74                  | -30.27         | -                            | -              | 0-360          | 100         | H        |
| 6      | * 15.901        | 31.78                | PK  | 40.3           | -25.1                  | 46.98                      | -                  | -           | 74                  | -27.02         | -                            | -              | 0-360          | 100         | V        |
| 4      | 1.716           | 37.95                | PK  | 29.2           | -31.5                  | 35.65                      | -                  | -           | -                   | -              | 68.2                         | -32.55         | 0-360          | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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 |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.342         | 41.7                 | PK1 | 29.4           | -32.8                  | 38.3                       | -                  | -           | 74                  | -35.7          | -                            | -              | 360            | 100         | H        |
| * 1.344         | 30.17                | AD1 | 29.3           | -32.8                  | 26.67                      | 54                 | -27.33      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.909         | 40.54                | PK1 | 33.2           | -30.4                  | 43.34                      | -                  | -           | 74                  | -30.66         | -                            | -              | 360            | 100         | H        |
| * 3.907         | 29.04                | AD1 | 33.2           | -30.3                  | 31.94                      | 54                 | -22.06      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.757         | 41.2                 | PK1 | 32.5           | -31.6                  | 42.1                       | -                  | -           | 74                  | -31.9          | -                            | -              | 198            | 396         | V        |
| * 2.759         | 29.41                | AD1 | 32.5           | -31.6                  | 30.31                      | 54                 | -23.69      | -                   | -              | -                            | -              | 198            | 396         | V        |
| * 12.03         | 36.57                | PK1 | 39.1           | -23.5                  | 52.17                      | -                  | -           | 74                  | -21.83         | -                            | -              | 198            | 396         | H        |
| * 12.032        | 25.18                | AD1 | 39.1           | -23.4                  | 40.88                      | 54                 | -13.12      | -                   | -              | -                            | -              | 198            | 396         | H        |
| * 15.903        | 43.18                | PK1 | 40.3           | -25.1                  | 58.38                      | -                  | -           | 74                  | -15.62         | -                            | -              | 294            | 104         | V        |
| * 15.902        | 30.1                 | AD1 | 40.3           | -25.1                  | 45.3                       | 54                 | -8.7        | -                   | -              | -                            | -              | 294            | 104         | V        |
| 1.717           | 28.76                | AD1 | 29.2           | -31.5                  | 26.46                      | -                  | -           | -                   | -              | -                            | -              | 198            | 396         | V        |
| 1.718           | 41.32                | PK1 | 29.2           | -31.5                  | 39.02                      | -                  | -           | -                   | -              | 68.2                         | -29.18         | 198            | 396         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

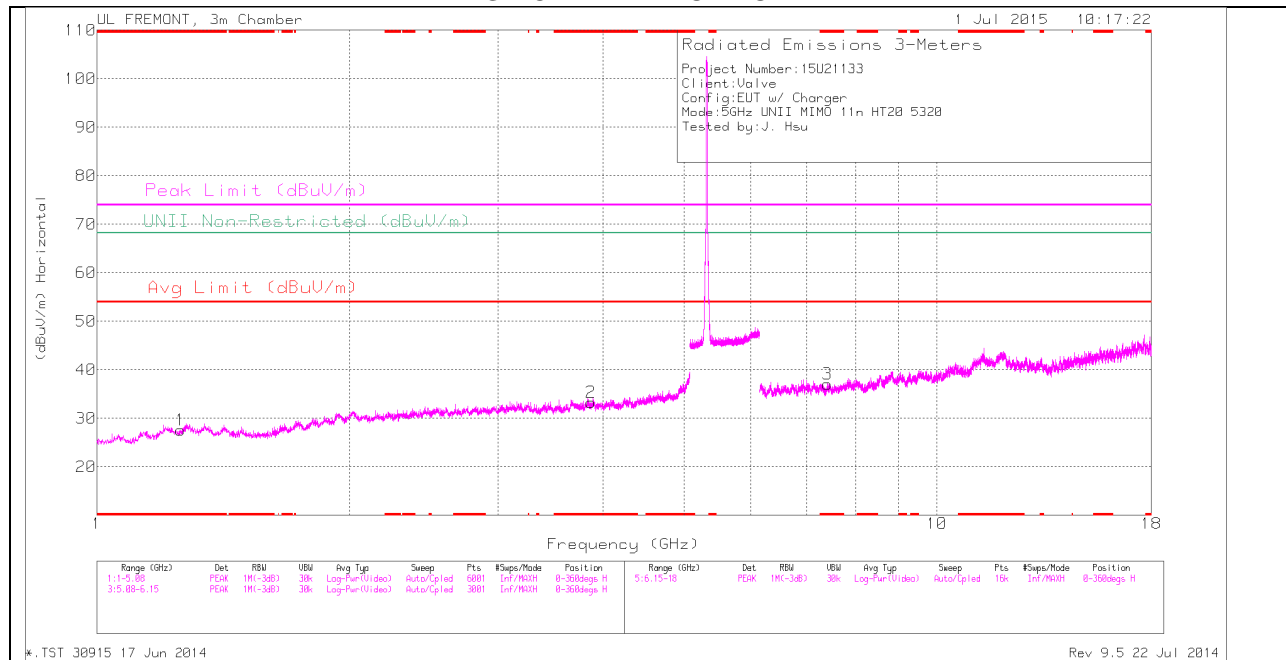
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

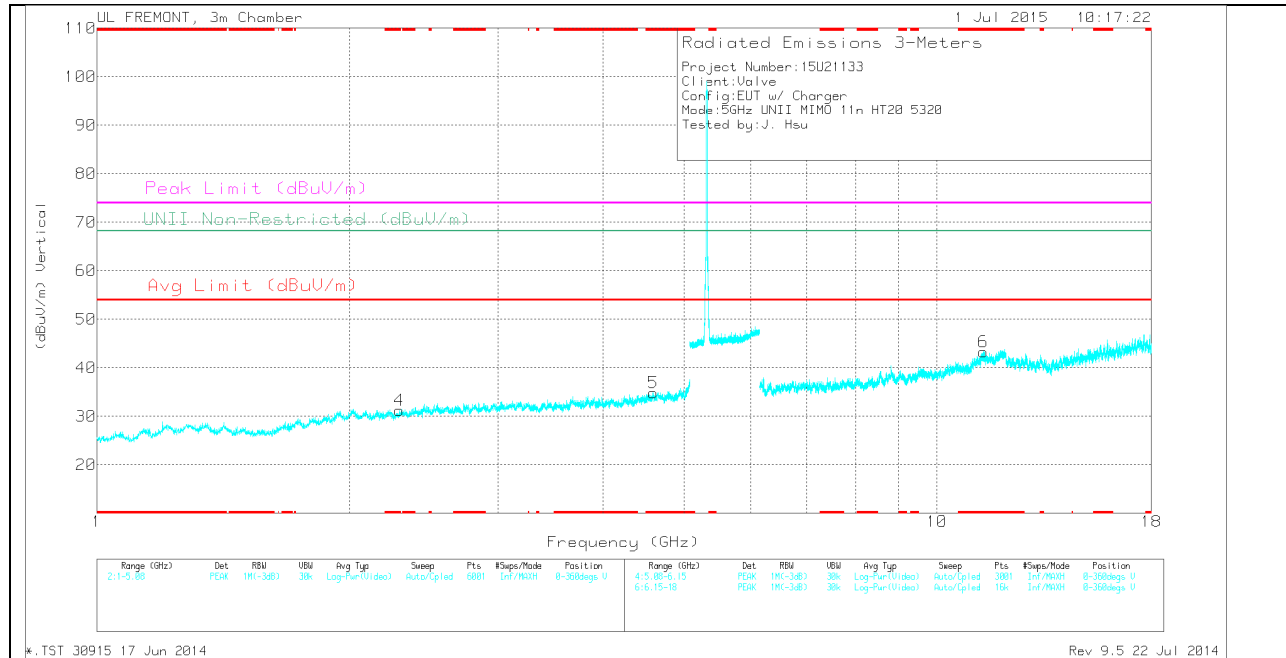
Rev 9.5 22 Jul 2014

### HIGH CHANNEL HORIZONTAL



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

# 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.

## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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      | * 1.256         | 30.96                | PK  | 29.5           | -32.9                  | 27.56                      | -                  | -           | 74                  | -46.44         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 3.876         | 30.18                | PK  | 33.2           | -30.1                  | 33.28                      | -                  | -           | 74                  | -40.72         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 2.292         | 31.27                | PK  | 31.6           | -31.7                  | 31.17                      | -                  | -           | 74                  | -42.83         | -                            | -              | 0-360          | 200         | V        |
| 5      | * 4.595         | 30.68                | PK  | 33.9           | -29.7                  | 34.88                      | -                  | -           | 74                  | -39.12         | -                            | -              | 0-360          | 100         | V        |
| 3      | * 7.403         | 29                   | PK  | 35.6           | -27.5                  | 37.1                       | -                  | -           | 74                  | -36.9          | -                            | -              | 0-360          | 200         | H        |
| 6      | * 11.346        | 28.03                | PK  | 38.1           | -22.8                  | 43.33                      | -                  | -           | 74                  | -30.67         | -                            | -              | 0-360          | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/FI tr/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 |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.258         | 41.41                | PK1 | 29.5           | -32.9                  | 38.01                      | -                  | -           | 74                  | -35.99         | -                            | -              | 360            | 100         | H        |
| * 1.258         | 29.09                | AD1 | 29.5           | -32.9                  | 25.69                      | 54                 | -28.31      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.875         | 40.06                | PK1 | 33.2           | -30.2                  | 43.06                      | -                  | -           | 74                  | -30.94         | -                            | -              | 360            | 100         | H        |
| * 3.876         | 28.28                | AD1 | 33.2           | -30.1                  | 31.38                      | 54                 | -22.62      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.291         | 40.79                | PK1 | 31.6           | -31.7                  | 40.69                      | -                  | -           | 74                  | -33.31         | -                            | -              | 360            | 100         | V        |
| * 2.291         | 29.16                | AD1 | 31.6           | -31.7                  | 29.06                      | 54                 | -24.94      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 4.595         | 40.39                | PK1 | 33.9           | -29.7                  | 44.59                      | -                  | -           | 74                  | -29.41         | -                            | -              | 360            | 100         | V        |
| * 4.595         | 28.59                | AD1 | 33.9           | -29.7                  | 32.79                      | 54                 | -21.21      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 7.404         | 38.4                 | PK1 | 35.6           | -27.4                  | 46.6                       | -                  | -           | 74                  | -27.4          | -                            | -              | 360            | 100         | H        |
| * 7.404         | 27.4                 | AD1 | 35.6           | -27.4                  | 35.6                       | 54                 | -18.4       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 11.348        | 36.86                | PK1 | 38.1           | -22.9                  | 52.06                      | -                  | -           | 74                  | -21.94         | -                            | -              | 360            | 100         | V        |
| * 11.347        | 25.46                | AD1 | 38.1           | -22.8                  | 40.76                      | 54                 | -13.24      | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

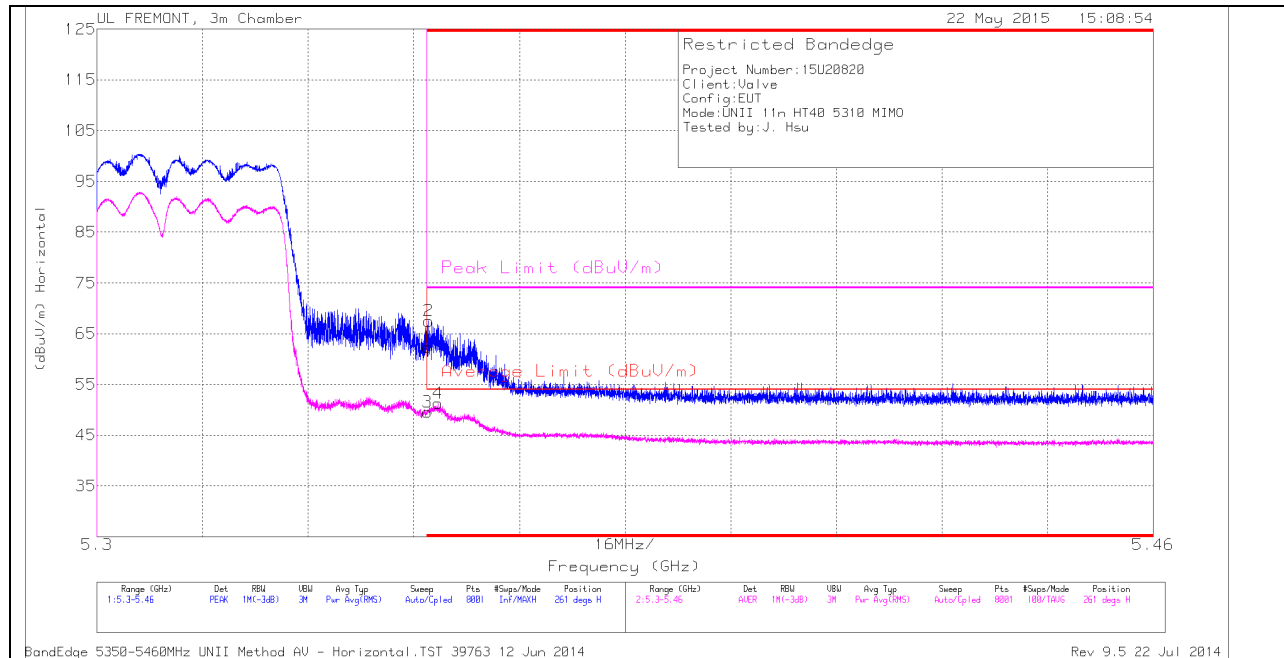
\*.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014



# **13.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)**

## **HORIZONTAL PEAK AND AVERAGE PLOT**



## **HORIZONTAL DATA**

### **Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fit r/Pad (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      | * 5.35          | 49.22                | PK  | 34.5           | -21.4                  | 0            | 62.32                      | -                      | -           | 74                  | -11.68         | 261            | 206         | H        |
| 2      | * 5.35          | 54.39                | PK  | 34.5           | -21.4                  | 0            | 67.49                      | -                      | -           | 74                  | -6.51          | 261            | 206         | H        |
| 3      | * 5.35          | 35.86                | RMS | 34.5           | -21.4                  | .64          | 49.6                       | 54                     | -4.4        | -                   | -              | 261            | 206         | H        |
| 4      | * 5.352         | 37.5                 | RMS | 34.5           | -21.4                  | .64          | 51.24                      | 54                     | -2.76       | -                   | -              | 261            | 206         | H        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

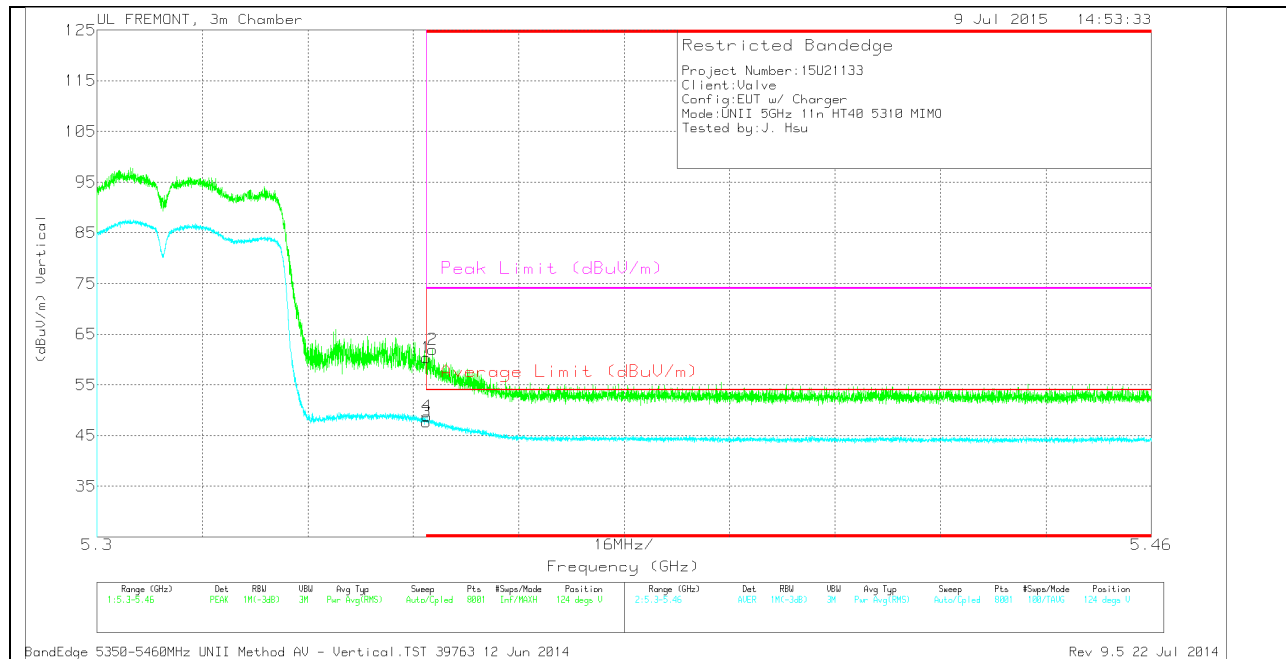
PK - Peak detector

RMS - RMS detection

BandEdge 5350-5460MHz UNII Method AV - Horizontal.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fit r/Pad (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      | * 5.35          | 46.31                | PK  | 34.5           | -20.5                  | 0            | 60.31                      | -                      | -           | 74                  | -13.69         | 124            | 121         | V        |
| 3      | * 5.35          | 32.83                | RMS | 34.5           | -20.5                  | .8           | 47.63                      | 54                     | -6.37       | -                   | -              | 124            | 121         | V        |
| 4      | * 5.35          | 34                   | RMS | 34.5           | -20.5                  | .8           | 48.8                       | 54                     | -5.2        | -                   | -              | 124            | 121         | V        |
| 2      | * 5.351         | 47.93                | PK  | 34.5           | -20.5                  | 0            | 61.93                      | -                      | -           | 74                  | -12.07         | 124            | 121         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

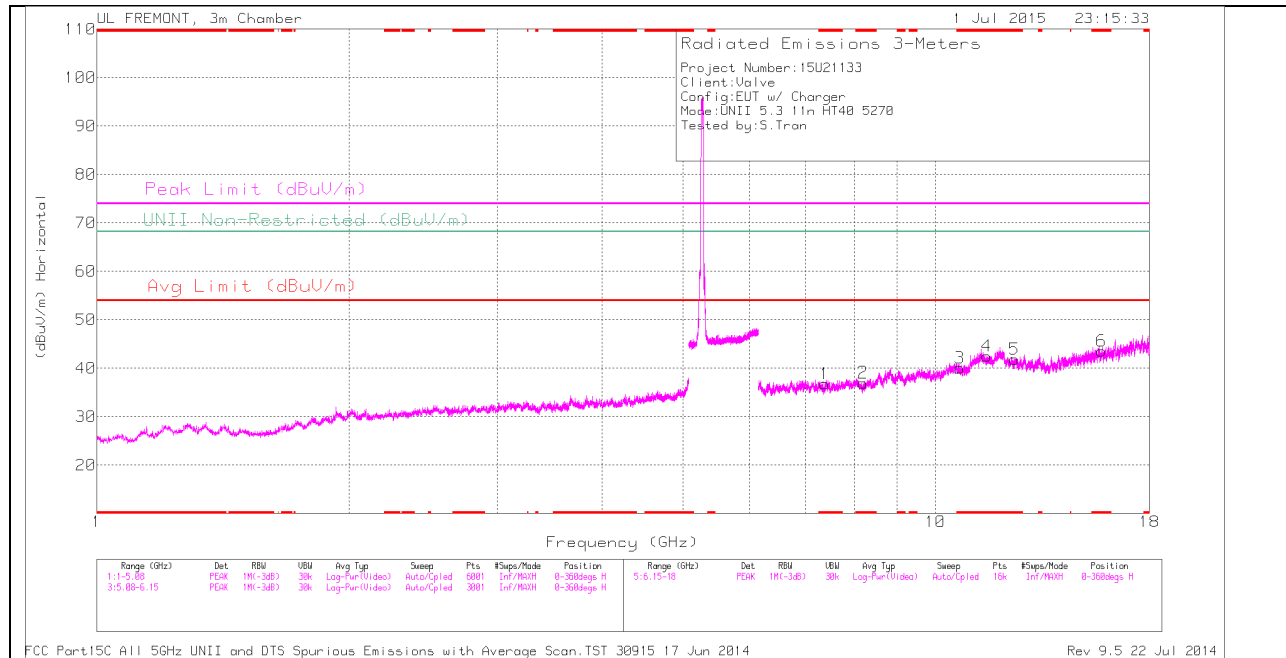
RMS - RMS detection

BandEdge 5350-5460MHz UNII Method AV - Vertical.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

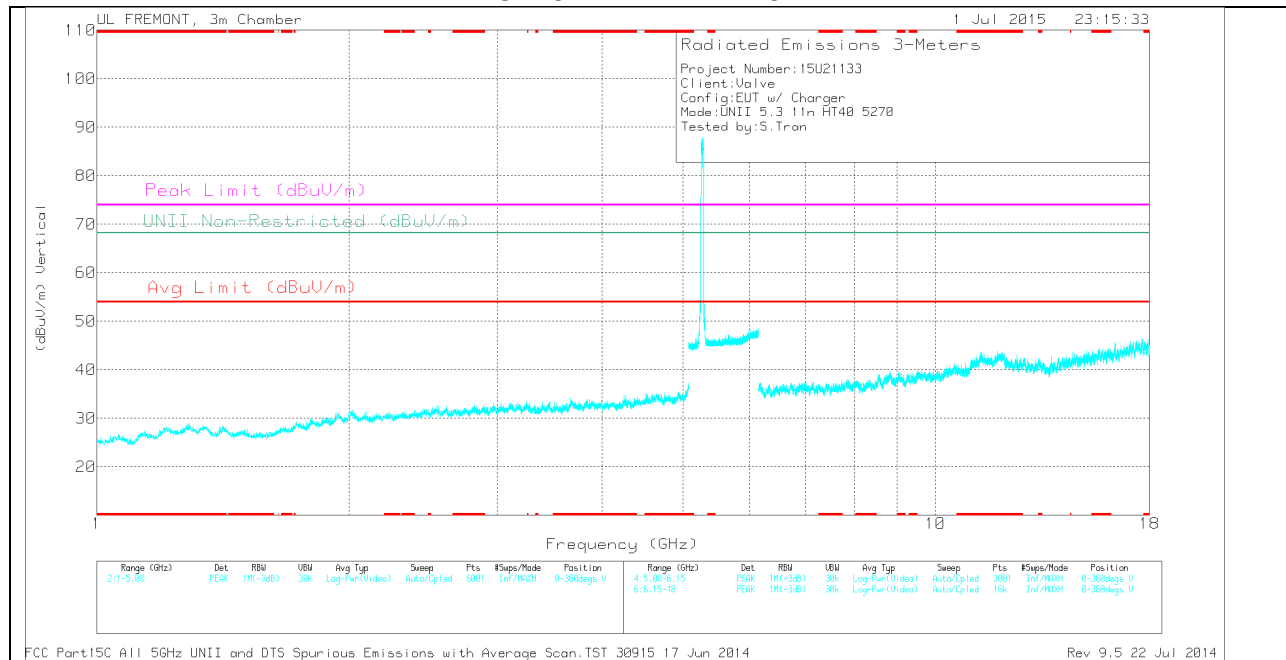
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

### 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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 1      | * 7.376         | 29.28                | PK  | 35.6           | -28.1                | 0            | 36.78                      | -                  | -           | 74                  | -37.22         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 8.202         | 29                   | PK  | 35.8           | -27.8                | 0            | 37                         | -                  | -           | 74                  | -37            | -                            | -              | 0-360          | 200         | H        |
| 3      | * 10.682        | 26.27                | PK  | 37.8           | -24                  | 0            | 40.07                      | -                  | -           | 74                  | -33.93         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 11.51         | 27.25                | PK  | 38.4           | -23.1                | 0            | 42.55                      | -                  | -           | 74                  | -31.45         | -                            | -              | 0-360          | 100         | H        |
| 5      | * 12.426        | 27.82                | PK  | 39             | -25                  | 0            | 41.82                      | -                  | -           | 74                  | -32.18         | -                            | -              | 0-360          | 200         | H        |
| 6      | * 15.782        | 28.8                 | PK  | 40.3           | -25.6                | 0            | 43.5                       | -                  | -           | 74                  | -30.5          | -                            | -              | 0-360          | 100         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 7.376         | 38.2                 | PK1 | 35.6           | -28.2                | 0            | 45.6                       | -                  | -           | 74                  | -28.4          | -                            | -              | 360            | 100         | H        |
| * 7.377         | 26.7                 | AD1 | 35.6           | -28.2                | .8           | 34.9                       | 54                 | -19.1       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 8.202         | 38.58                | PK1 | 35.8           | -27.8                | 0            | 46.58                      | -                  | -           | 74                  | -27.42         | -                            | -              | 360            | 200         | H        |
| * 8.204         | 27.11                | AD1 | 35.8           | -27.8                | .8           | 35.91                      | 54                 | -18.09      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 10.682        | 36.49                | PK1 | 37.8           | -24                  | 0            | 50.29                      | -                  | -           | 74                  | -23.71         | -                            | -              | 360            | 100         | H        |
| * 10.684        | 24.76                | AD1 | 37.8           | -24                  | .8           | 39.36                      | 54                 | -14.64      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 11.509        | 36.49                | PK1 | 38.4           | -23.1                | 0            | 51.79                      | -                  | -           | 74                  | -22.21         | -                            | -              | 360            | 100         | H        |
| * 11.511        | 25.23                | AD1 | 38.4           | -23.2                | .8           | 41.23                      | 54                 | -12.77      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 12.427        | 37.31                | PK1 | 39             | -25                  | 0            | 51.31                      | -                  | -           | 74                  | -22.69         | -                            | -              | 360            | 200         | H        |
| * 12.428        | 25.65                | AD1 | 39             | -25                  | .8           | 40.45                      | 54                 | -13.55      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 15.783        | 38.76                | PK1 | 40.3           | -25.7                | 0            | 53.36                      | -                  | -           | 74                  | -20.64         | -                            | -              | 360            | 100         | H        |
| * 15.782        | 27.26                | AD1 | 40.3           | -25.6                | .8           | 42.76                      | 54                 | -11.24      | -                   | -              | -                            | -              | 360            | 100         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

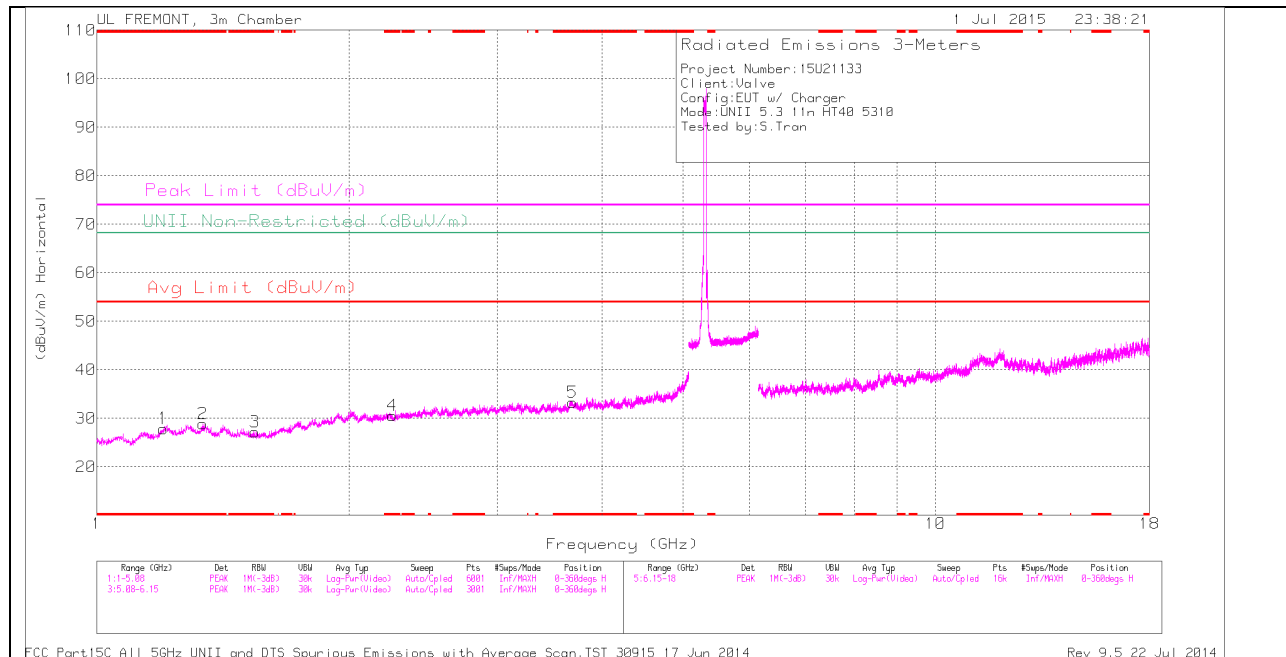
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

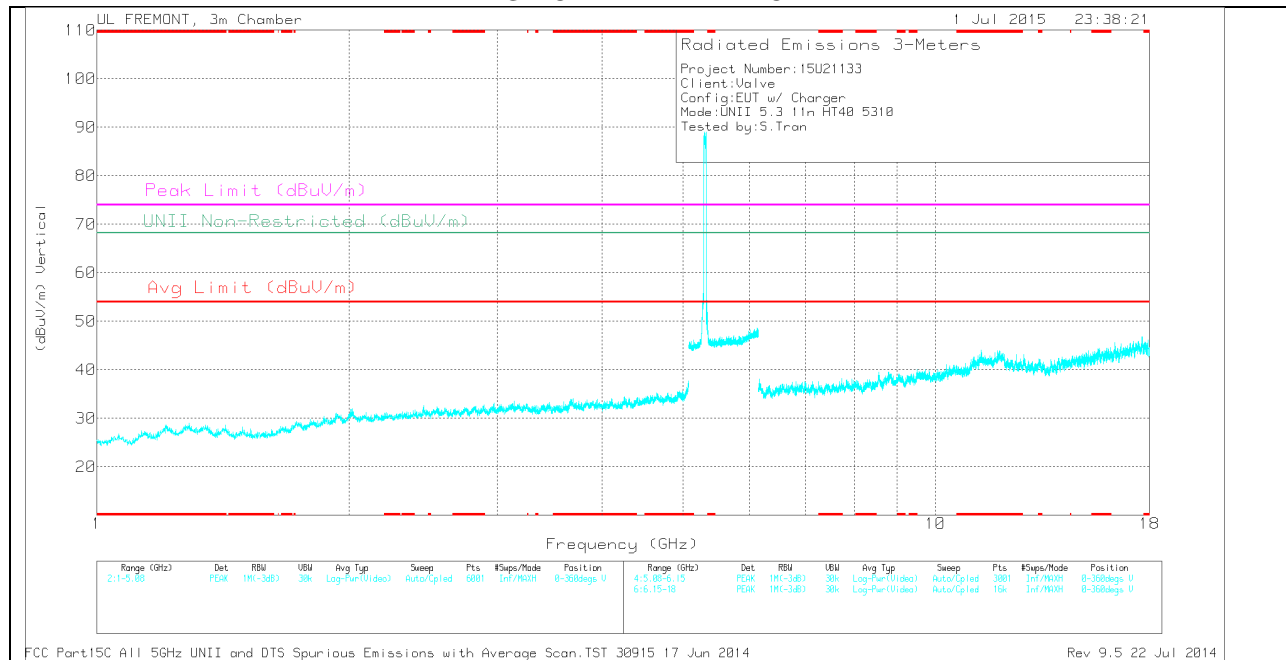
Rev 9.5 22 Jul 2014

### HIGH CHANNEL HORIZONTAL



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

### 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.

## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/r/Ftr/Pad (dB) | DC Corr (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      | * 1.2           | 31.61                | PK  | 28.9           | -32.6                 | 0            | 27.91                      | -                  | -           | 74                  | -46.09         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 1.339         | 32.34                | PK  | 29.4           | -32.8                 | 0            | 28.94                      | -                  | -           | 74                  | -45.06         | -                            | -              | 0-360          | 100         | H        |
| 3      | * 1.543         | 31.83                | PK  | 28.1           | -32.7                 | 0            | 27.23                      | -                  | -           | 74                  | -46.77         | -                            | -              | 0-360          | 200         | H        |
| 4      | * 2.252         | 30.62                | PK  | 31.5           | -31.6                 | 0            | 30.52                      | -                  | -           | 74                  | -43.48         | -                            | -              | 0-360          | 100         | H        |
| 5      | * 3.693         | 30.39                | PK  | 33             | -30.1                 | 0            | 33.29                      | -                  | -           | 74                  | -40.71         | -                            | -              | 0-360          | 200         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/r/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.201         | 41.43                | PK1 | 28.9           | -32.6                 | 0            | 37.73                      | -                  | -           | 74                  | -36.27         | -                            | -              | 360            | 200         | H        |
| * 1.201         | 29.83                | AD1 | 28.9           | -32.6                 | .8           | 26.93                      | 54                 | -27.07      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 1.338         | 41.24                | PK1 | 29.4           | -32.8                 | 0            | 37.84                      | -                  | -           | 74                  | -36.16         | -                            | -              | 360            | 100         | H        |
| * 1.34          | 29.73                | AD1 | 29.4           | -32.8                 | .8           | 27.13                      | 54                 | -26.87      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 1.544         | 41.48                | PK1 | 28.1           | -32.7                 | 0            | 36.88                      | -                  | -           | 74                  | -37.12         | -                            | -              | 360            | 200         | H        |
| * 1.544         | 29.62                | AD1 | 28.1           | -32.7                 | .8           | 25.82                      | 54                 | -28.18      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 2.25          | 40.2                 | PK1 | 31.5           | -31.7                 | 0            | 40                         | -                  | -           | 74                  | -34            | -                            | -              | 360            | 100         | H        |
| * 2.25          | 28.87                | AD1 | 31.5           | -31.7                 | .8           | 29.47                      | 54                 | -24.53      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.692         | 40.34                | PK1 | 33             | -30                   | 0            | 43.34                      | -                  | -           | 74                  | -30.66         | -                            | -              | 360            | 200         | H        |
| * 3.693         | 28.5                 | AD1 | 33             | -30                   | .8           | 32.3                       | 54                 | -21.7       | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 1.202         | 41.65                | PK1 | 28.9           | -32.7                 | 0            | 37.85                      | -                  | -           | 74                  | -36.15         | -                            | -              | 360            | 200         | H        |
| * 1.202         | 29.76                | AD1 | 28.9           | -32.6                 | .8           | 26.86                      | 54                 | -27.14      | -                   | -              | -                            | -              | 360            | 200         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

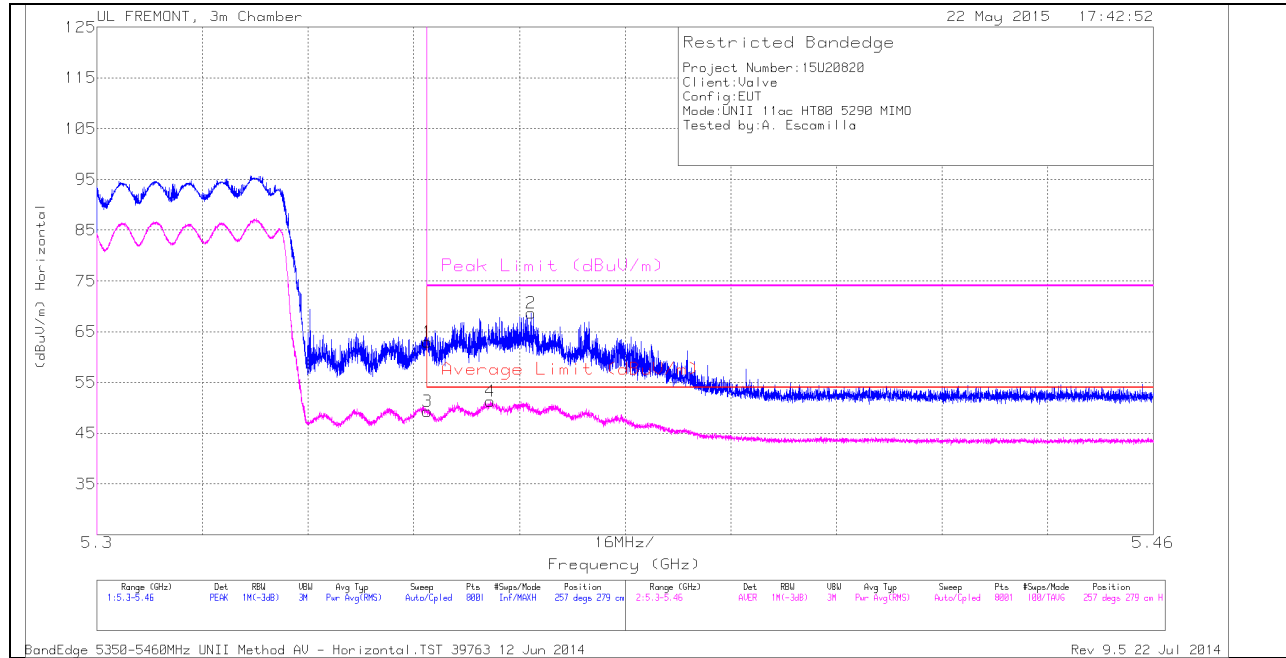
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014



# **13.1.3. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)**

## **HORIZONTAL PEAK AND AVERAGE PLOT**



## **HORIZONTAL DATA**

### **Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fit r/Pad (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      | 5.35            | 49.8                 | PK  | 34.5           | -21.4                  | 0            | 62.9                       | -                      | -           | 74                  | -11.1          | 257            | 279         | H        |
| 3      | 5.35            | 35.55                | RMS | 34.5           | -21.4                  | .66          | 49.31                      | 54                     | -4.69       | -                   | -              | 257            | 279         | H        |
| 4      | 5.36            | 37.57                | RMS | 34.5           | -21.4                  | .66          | 51.33                      | 54                     | -2.67       | -                   | -              | 257            | 279         | H        |
| 2      | 5.366           | 55.72                | PK  | 34.5           | -21.5                  | 0            | 68.72                      | -                      | -           | 74                  | -5.28          | 257            | 279         | H        |

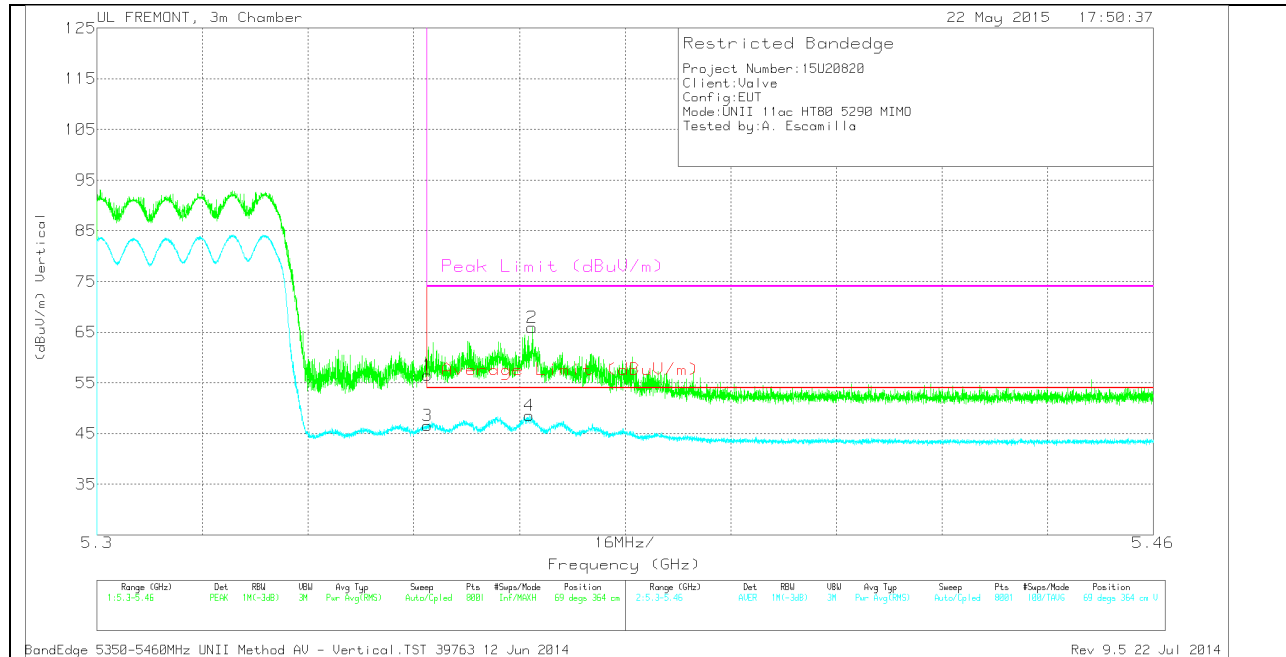
PK - Peak detector

RMS - RMS detection

BandEdge 5350-5460MHz UNII Method AV - Horizontal.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fitter/Pad (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      | 5.35            | 43.35                | PK  | 34.5           | -21.4                   | 0            | 56.45                      | -                      | -           | 74                  | -17.55         | 69             | 364         | V        |
| 3      | 5.35            | 32.77                | RMS | 34.5           | -21.4                   | .66          | 46.53                      | 54                     | -7.47       | -                   | -              | 69             | 364         | V        |
| 4      | 5.365           | 34.85                | RMS | 34.5           | -21.5                   | .66          | 48.51                      | 54                     | -5.49       | -                   | -              | 69             | 364         | V        |
| 2      | 5.366           | 52.96                | PK  | 34.5           | -21.5                   | 0            | 65.96                      | -                      | -           | 74                  | -8.04          | 69             | 364         | V        |

PK - Peak detector

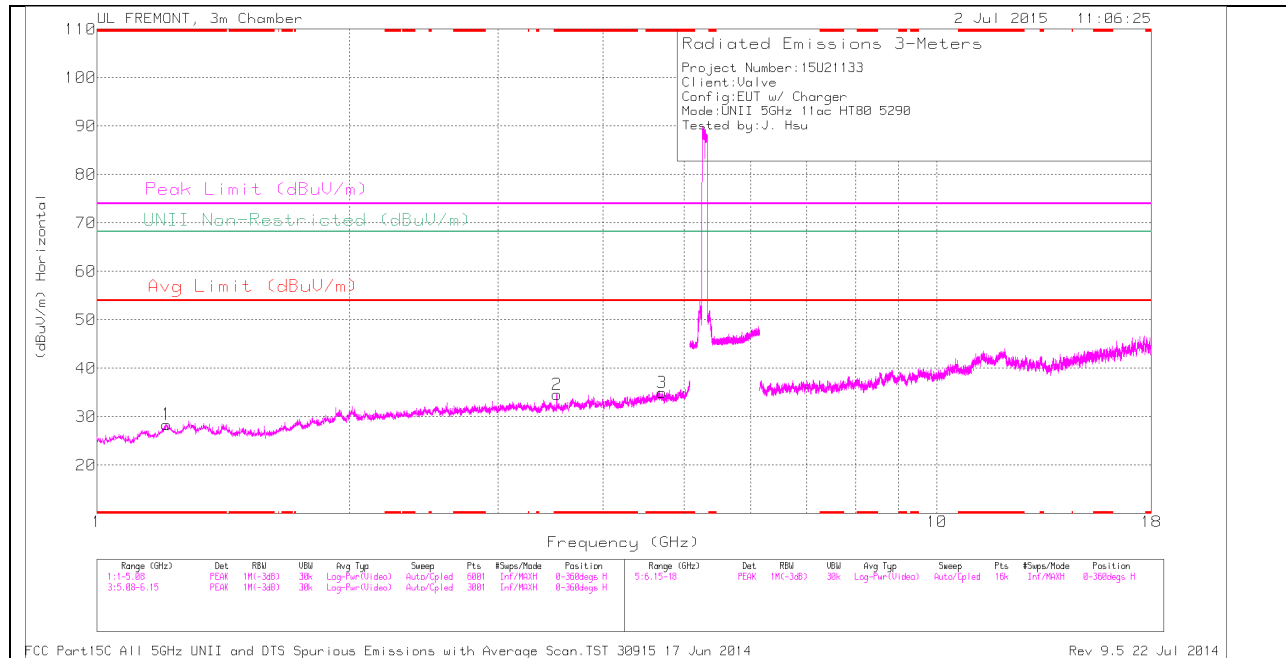
RMS - RMS detection

BandEdge 5350-5460MHz UNII Method AV - Vertical.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

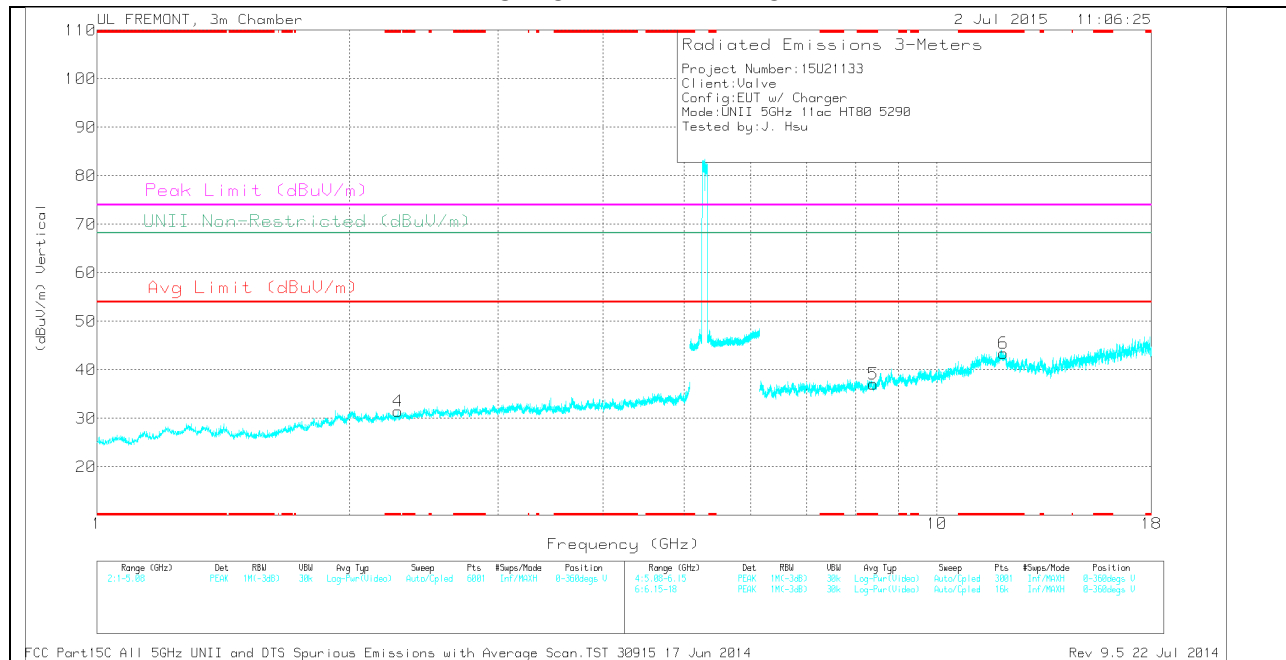
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

### 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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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      | * 1.211         | 32.13                | PK  | 29             | -32.7                | 0            | 28.43                      | -                  | -           | 74                  | -45.57         | -                            | -              | 0-360          | 200         | H        |
| 2      | * 3.527         | 32.84                | PK  | 32.8           | -31                  | 0            | 34.64                      | -                  | -           | 74                  | -39.36         | -                            | -              | 0-360          | 100         | H        |
| 3      | * 4.703         | 30.78                | PK  | 34.1           | -29.9                | 0            | 34.98                      | -                  | -           | 74                  | -39.02         | -                            | -              | 0-360          | 200         | H        |
| 4      | * 2.284         | 31.52                | PK  | 31.6           | -31.6                | 0            | 31.52                      | -                  | -           | 74                  | -42.48         | -                            | -              | 0-360          | 200         | V        |
| 5      | * 8.401         | 28.03                | PK  | 35.8           | -26.8                | 0            | 37.03                      | -                  | -           | 74                  | -36.97         | -                            | -              | 0-360          | 100         | V        |
| 6      | * 11.994        | 27.76                | PK  | 39.1           | -23.4                | 0            | 43.46                      | -                  | -           | 74                  | -30.54         | -                            | -              | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.21          | 42.46                | PK1 | 29             | -32.7                | 0            | 38.76                      | -                  | -           | 74                  | -35.24         | -                            | -              | 360            | 100         | H        |
| * 1.21          | 30.08                | AD1 | 29             | -32.7                | 1.02         | 27.4                       | 54                 | -26.6       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.526         | 42.05                | PK1 | 32.8           | -31                  | 0            | 43.85                      | -                  | -           | 74                  | -30.15         | -                            | -              | 360            | 100         | H        |
| * 3.527         | 29.86                | AD1 | 32.8           | -31                  | 1.02         | 32.68                      | 54                 | -21.32      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 4.705         | 40.57                | PK1 | 34.1           | -29.9                | 0            | 44.77                      | -                  | -           | 74                  | -29.23         | -                            | -              | 360            | 100         | H        |
| * 4.704         | 28.62                | AD1 | 34.1           | -29.9                | 1.02         | 33.84                      | 54                 | -20.16      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 2.283         | 40.25                | PK1 | 31.6           | -31.6                | 0            | 40.25                      | -                  | -           | 74                  | -33.75         | -                            | -              | 360            | 100         | V        |
| * 2.282         | 28.65                | AD1 | 31.6           | -31.6                | 1.02         | 29.67                      | 54                 | -24.33      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 8.4           | 37.33                | PK1 | 35.8           | -26.8                | 0            | 46.33                      | -                  | -           | 74                  | -27.67         | -                            | -              | 360            | 100         | V        |
| * 8.399         | 26.32                | AD1 | 35.8           | -26.8                | 1.02         | 36.34                      | 54                 | -17.66      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 11.994        | 36.56                | PK1 | 39.1           | -23.4                | 0            | 52.26                      | -                  | -           | 74                  | -21.74         | -                            | -              | 360            | 100         | V        |
| * 11.996        | 25.15                | AD1 | 39.1           | -23.4                | 1.02         | 41.87                      | 54                 | -12.13      | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

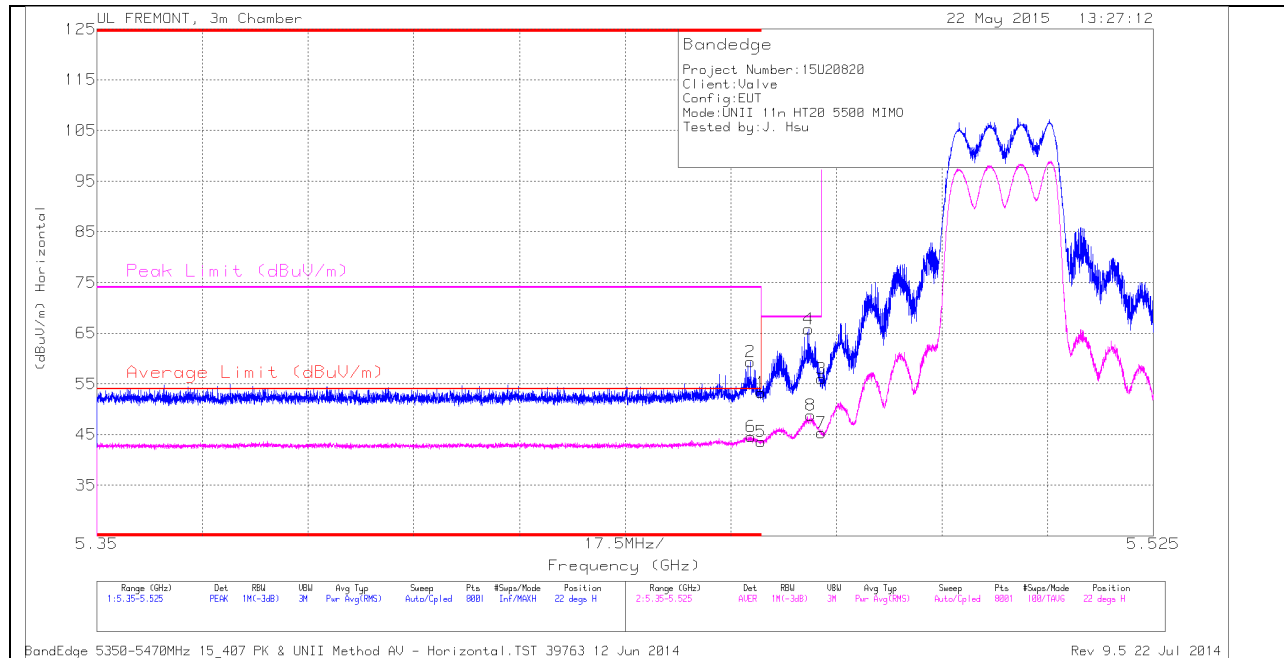
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

## 13.2. 5.5-5.6 GHz

### 13.2.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

##### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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 |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 40.12                | PK  | 34.6           | -21.4                 | 53.32                      | -                      | -           | 74                  | -20.68         | 22             | 266         | H        |
| 2      | * 5.458         | 46.14                | PK  | 34.6           | -21.4                 | 59.34                      | -                      | -           | 74                  | -14.66         | 22             | 266         | H        |
| 5      | * 5.46          | 30.42                | RMS | 34.6           | -21.4                 | 43.62                      | 54                     | -10.38      | -                   | -              | 22             | 266         | H        |
| 6      | * 5.458         | 31.41                | RMS | 34.6           | -21.4                 | 44.61                      | 54                     | -9.39       | -                   | -              | 22             | 266         | H        |
| 4      | 5.468           | 52.54                | PK  | 34.6           | -21.3                 | 65.84                      | -                      | -           | 68.2                | -2.36          | 22             | 266         | H        |
| 8      | 5.468           | 35.47                | RMS | 34.6           | -21.3                 | 48.77                      | -                      | -           | -                   | -              | 22             | 266         | H        |
| 3      | 5.47            | 42.66                | PK  | 34.6           | -21.3                 | 55.96                      | -                      | -           | 68.2                | -12.24         | 22             | 266         | H        |
| 7      | 5.47            | 32.05                | RMS | 34.6           | -21.3                 | 45.35                      | -                      | -           | -                   | -              | 22             | 266         | H        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

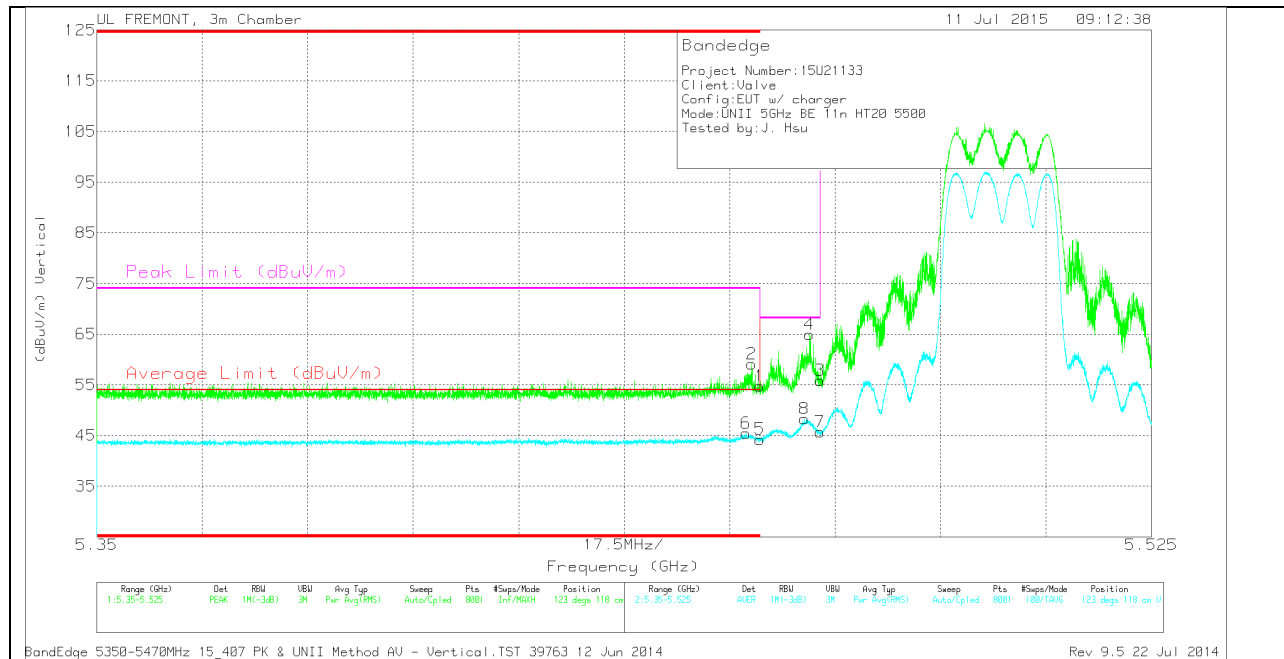
PK - Peak detector

RMS - RMS detection

BandEdge 5350-5470MHz 15\_407 PK & UNII Method AV - Horizontal.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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 |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 40.81                | PK  | 34.6           | -20.7                 | 54.71                      | -                      | -           | 74                  | -19.29         | 123            | 118         | V        |
| 2      | * 5.459         | 45.08                | PK  | 34.6           | -20.6                 | 59.08                      | -                      | -           | 74                  | -14.92         | 123            | 118         | V        |
| 5      | * 5.46          | 30.37                | RMS | 34.6           | -20.7                 | 44.27                      | 54                     | -9.73       | -                   | -              | 123            | 118         | V        |
| 6      | * 5.458         | 31.43                | RMS | 34.6           | -20.6                 | 45.43                      | 54                     | -8.57       | -                   | -              | 123            | 118         | V        |
| 8      | 5.467           | 34.32                | RMS | 34.6           | -20.6                 | 48.32                      | -                      | -           | -                   | -              | 123            | 118         | V        |
| 4      | 5.468           | 50.84                | PK  | 34.6           | -20.5                 | 64.94                      | -                      | -           | 68.2                | -3.26          | 123            | 118         | V        |
| 3      | 5.47            | 41.85                | PK  | 34.6           | -20.6                 | 55.85                      | -                      | -           | 68.2                | -12.35         | 123            | 118         | V        |
| 7      | 5.47            | 31.66                | RMS | 34.6           | -20.6                 | 45.66                      | -                      | -           | -                   | -              | 123            | 118         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

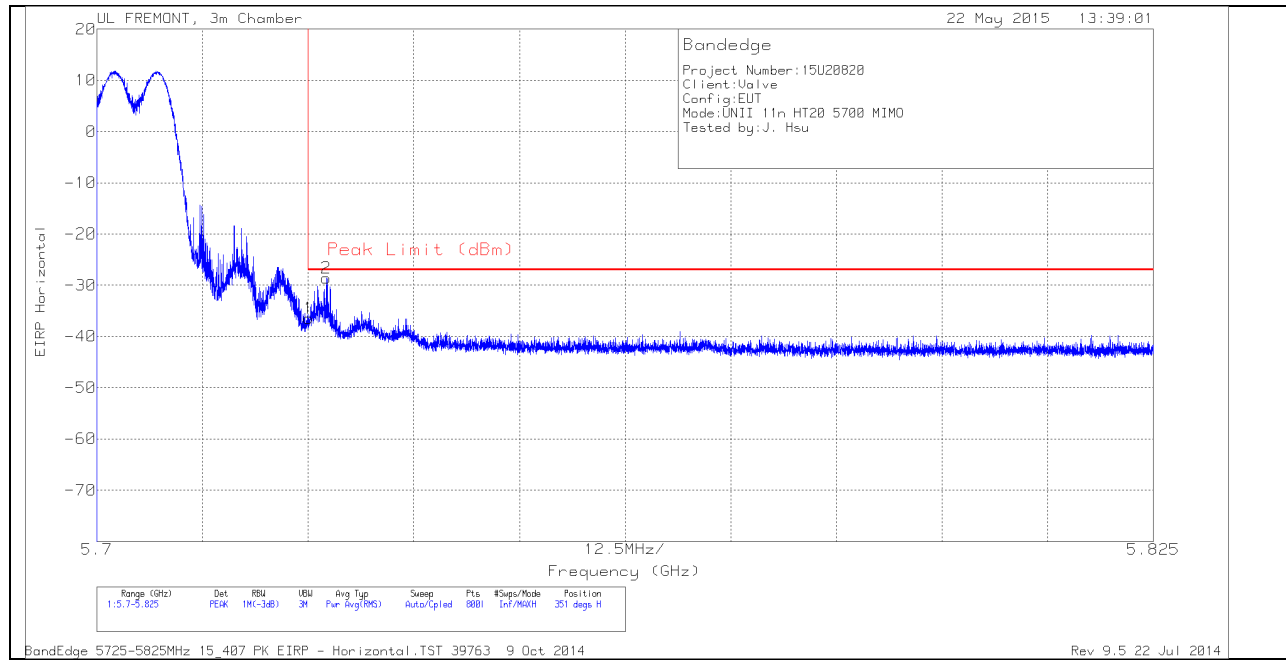
RMS - RMS detection

BandEdge 5350-5470MHz 15\_407 PK & UNII Method AV - Vertical.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## AUTHORIZED BANDEDGE (HIGH CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

#### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | -61.93              | PK  | 34.8           | -21.1                  | 11.8                   | -36.43                 | -27              | -9.43          | 351            | 305         | H        |
| 2      | 5.727           | -54.15              | PK  | 34.8           | -21.1                  | 11.8                   | -28.65                 | -27              | -1.65          | 351            | 305         | H        |

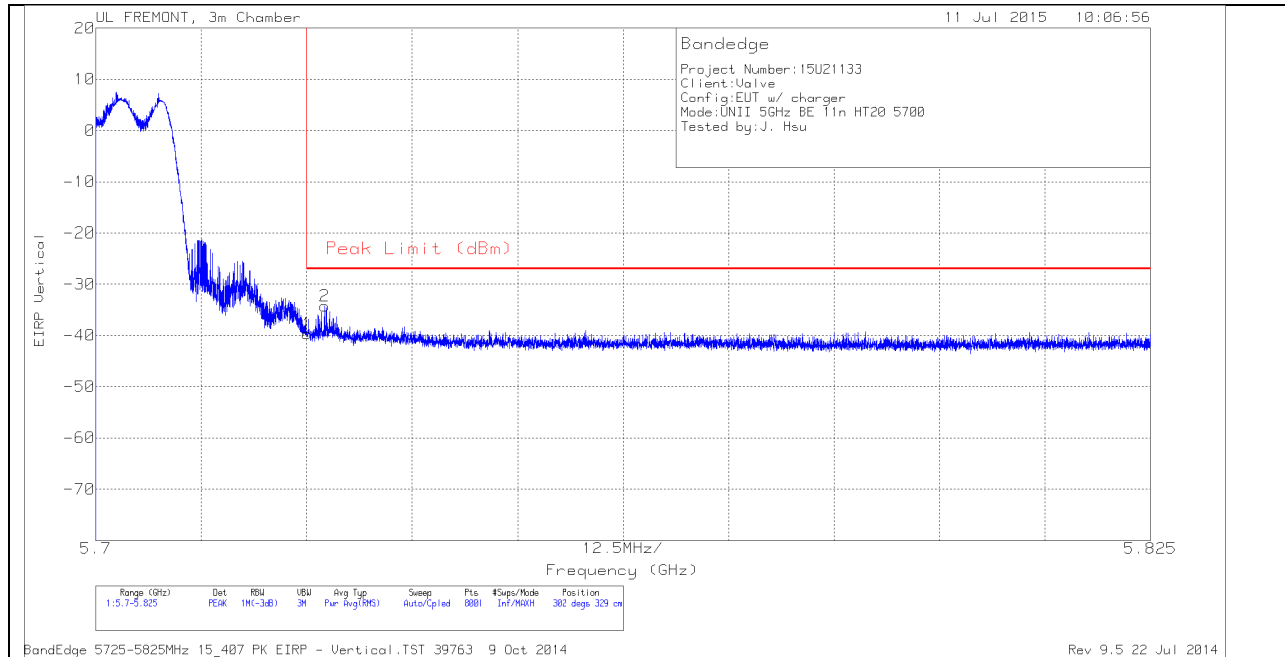
PK - Peak detector

BandEdge 5725-5825MHz 15\_407 PK EIRP - Horizontal.TST 39763 9 Oct 2014

Rev 9.5 22 Jul 2014



### VERTICAL PEAK AND AVERAGE PLOT



### VERTICAL DATA

#### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | -65.98              | PK  | 34.8           | -20.3                  | 11.8                   | -39.68                 | -27              | -12.68         | 302            | 329         | V        |
| 2      | 5.727           | -60.51              | PK  | 34.8           | -20.3                  | 11.8                   | -34.21                 | -27              | -7.21          | 302            | 329         | V        |

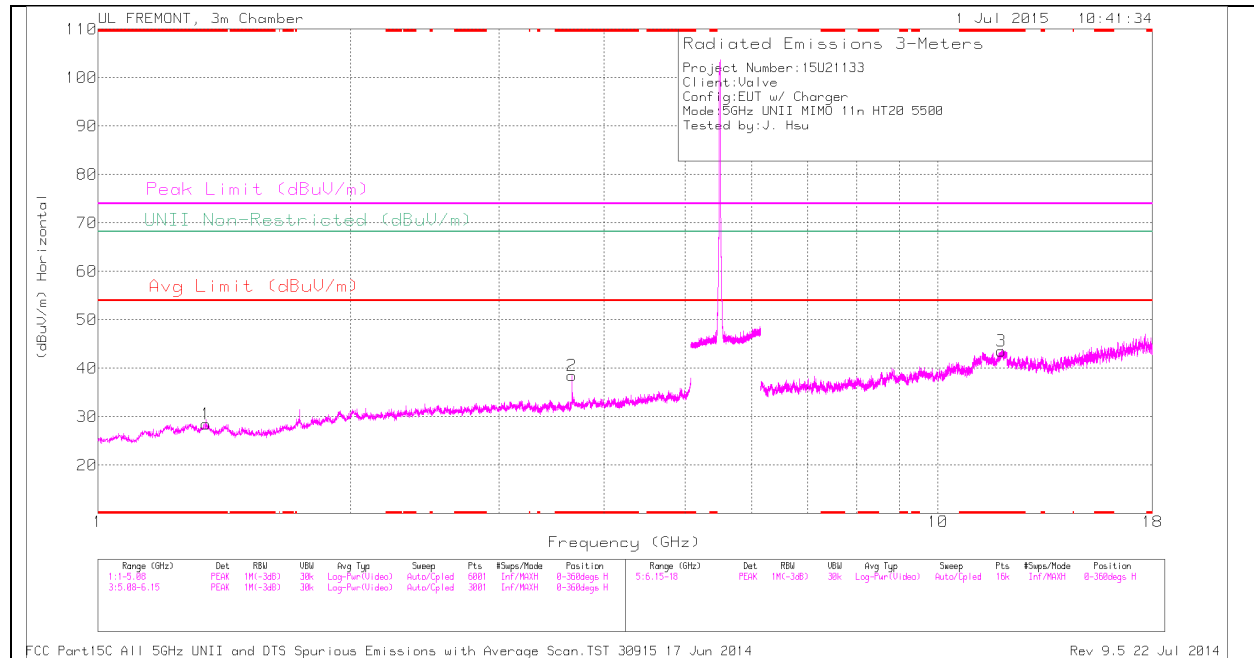
PK - Peak detector

BandEdge 5725-5825MHz 15\_407 PK EIRP - Vertical.TST 39763 9 Oct 2014

Rev 9.5 22 Jul 2014

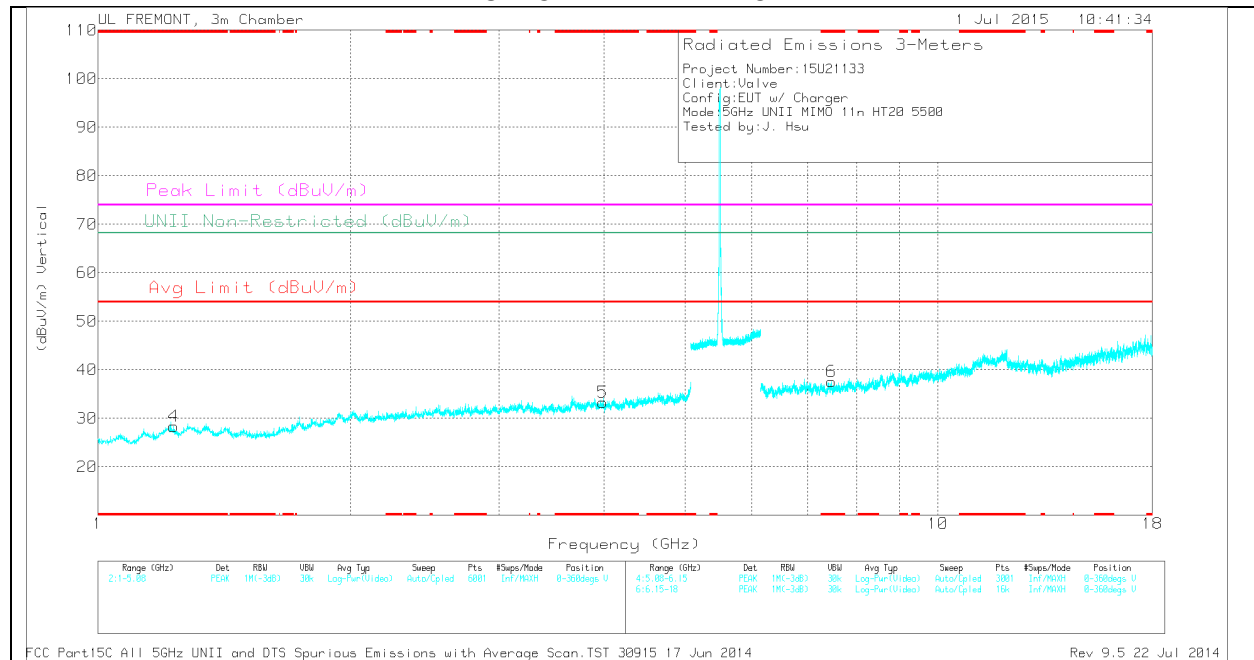
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

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.

## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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      | * 1.345         | 32                   | PK  | 29.3           | -32.8                  | 28.5                       | -                  | -           | 74                  | -45.5          | -                            | -              | 0-360          | 100         | H        |
| 2      | * 3.666         | 35.35                | PK  | 32.9           | -29.8                  | 38.45                      | -                  | -           | 74                  | -35.55         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 1.231         | 31.89                | PK  | 29.2           | -32.7                  | 28.39                      | -                  | -           | 74                  | -45.61         | -                            | -              | 0-360          | 200         | V        |
| 5      | * 3.989         | 31.05                | PK  | 33.2           | -30.9                  | 33.35                      | -                  | -           | 74                  | -40.65         | -                            | -              | 0-360          | 100         | V        |
| 3      | * 11.901        | 28                   | PK  | 39.1           | -23.5                  | 43.6                       | -                  | -           | 74                  | -30.4          | -                            | -              | 0-360          | 100         | H        |
| 6      | * 7.464         | 29.27                | PK  | 35.7           | -27.4                  | 37.57                      | -                  | -           | 74                  | -36.43         | -                            | -              | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/FI tr/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 |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.346         | 41.57                | PK1 | 29.3           | -32.8                  | 38.07                      | -                  | -           | 74                  | -35.93         | -                            | -              | 360            | 100         | H        |
| * 1.344         | 30.08                | AD1 | 29.3           | -32.8                  | 26.58                      | 54                 | -27.42      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.667         | 42.21                | PK1 | 32.9           | -29.8                  | 45.31                      | -                  | -           | 74                  | -28.69         | -                            | -              | 301            | 323         | H        |
| * 3.667         | 33.96                | AD1 | 32.9           | -29.7                  | 37.16                      | 54                 | -16.84      | -                   | -              | -                            | -              | 301            | 323         | H        |
| * 1.23          | 40.64                | PK1 | 29.2           | -32.7                  | 37.14                      | -                  | -           | 74                  | -36.86         | -                            | -              | 301            | 323         | V        |
| * 1.229         | 29.38                | AD1 | 29.2           | -32.7                  | 25.88                      | 54                 | -28.12      | -                   | -              | -                            | -              | 301            | 323         | V        |
| * 3.989         | 40.51                | PK1 | 33.2           | -30.9                  | 42.81                      | -                  | -           | 74                  | -31.19         | -                            | -              | 301            | 323         | V        |
| * 3.989         | 29.09                | AD1 | 33.2           | -30.9                  | 31.39                      | 54                 | -22.61      | -                   | -              | -                            | -              | 301            | 323         | V        |
| * 11.9          | 36.9                 | PK1 | 39.1           | -23.5                  | 52.5                       | -                  | -           | 74                  | -21.5          | -                            | -              | 301            | 323         | H        |
| * 11.9          | 25.24                | AD1 | 39.1           | -23.5                  | 40.84                      | 54                 | -13.16      | -                   | -              | -                            | -              | 301            | 323         | H        |
| * 7.463         | 38.53                | PK1 | 35.7           | -27.4                  | 46.83                      | -                  | -           | 74                  | -27.17         | -                            | -              | 301            | 323         | V        |
| * 7.462         | 27.13                | AD1 | 35.7           | -27.5                  | 35.33                      | 54                 | -18.67      | -                   | -              | -                            | -              | 301            | 323         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

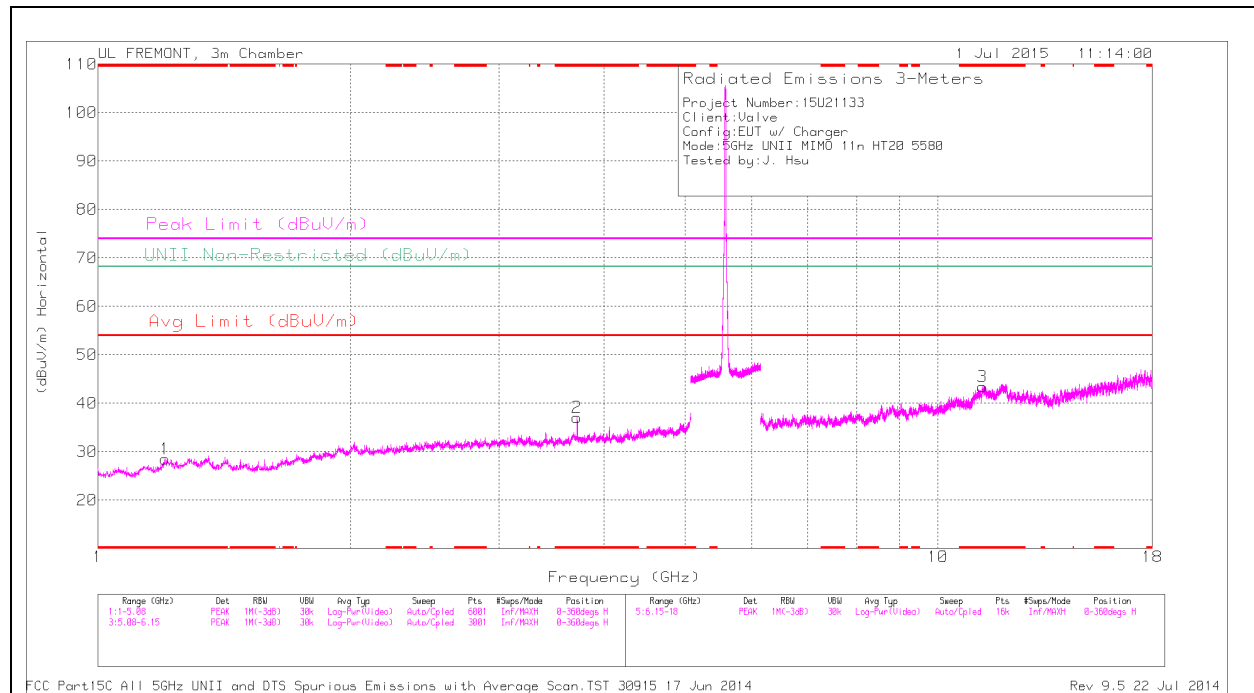
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

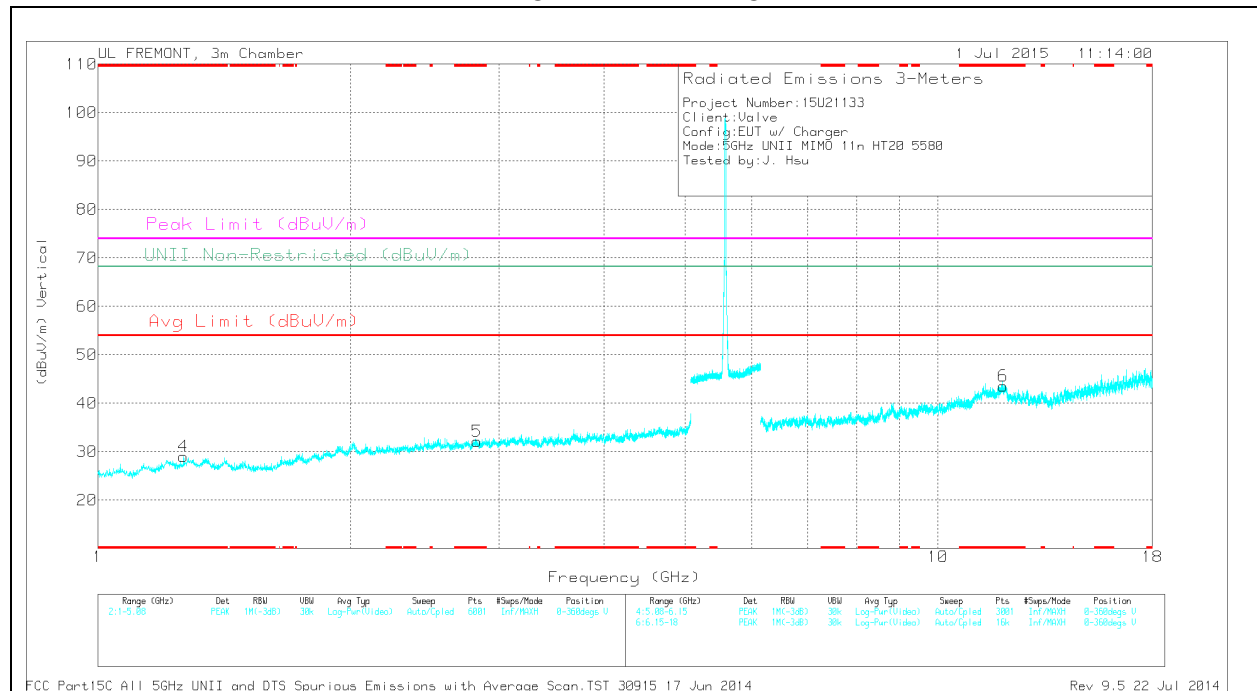
Rev 9.5 22 Jul 2014

MID CHANNEL HORIZONTAL



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

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.

## MID CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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      | * 1.201         | 32.21                | PK  | 28.9           | -32.6                 | 28.51                      | -                  | -           | 74                  | -45.49         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 3.72          | 34.27                | PK  | 33             | -30.2                 | 37.07                      | -                  | -           | 74                  | -36.93         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 1.265         | 32.36                | PK  | 29.6           | -33                   | 28.96                      | -                  | -           | 74                  | -45.04         | -                            | -              | 0-360          | 100         | V        |
| 5      | * 2.827         | 31.27                | PK  | 32.6           | -31.7                 | 32.17                      | -                  | -           | 74                  | -41.83         | -                            | -              | 0-360          | 200         | V        |
| 3      | * 11.287        | 28.01                | PK  | 38             | -22.6                 | 43.41                      | -                  | -           | 74                  | -30.59         | -                            | -              | 0-360          | 200         | H        |
| 6      | * 11.949        | 28.27                | PK  | 39.1           | -23.8                 | 43.57                      | -                  | -           | 74                  | -30.43         | -                            | -              | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr /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 |
|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.201         | 41.68                | PK1 | 28.9           | -32.6                 | 37.98                      | -                  | -           | 74                  | -36.02         | -                            | -              | 360            | 100         | H        |
| * 1.201         | 29.93                | AD1 | 28.9           | -32.6                 | 26.23                      | 54                 | -27.77      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 3.72          | 40.96                | PK1 | 33             | -30.2                 | 43.76                      | -                  | -           | 74                  | -30.24         | -                            | -              | 360            | 100         | H        |
| * 3.72          | 31                   | AD1 | 33             | -30.2                 | 33.8                       | 54                 | -20.2       | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 1.266         | 41.16                | PK1 | 29.6           | -33                   | 37.76                      | -                  | -           | 74                  | -36.24         | -                            | -              | 360            | 100         | V        |
| * 1.266         | 29.31                | AD1 | 29.6           | -33                   | 25.91                      | 54                 | -28.09      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 2.828         | 40.96                | PK1 | 32.6           | -31.7                 | 41.86                      | -                  | -           | 74                  | -32.14         | -                            | -              | 360            | 100         | V        |
| * 2.827         | 29.38                | AD1 | 32.6           | -31.7                 | 30.28                      | 54                 | -23.72      | -                   | -              | -                            | -              | 360            | 100         | V        |
| * 11.288        | 36.24                | PK1 | 38             | -22.6                 | 51.64                      | -                  | -           | 74                  | -22.36         | -                            | -              | 360            | 100         | H        |
| * 11.288        | 24.83                | AD1 | 38             | -22.6                 | 40.23                      | 54                 | -13.77      | -                   | -              | -                            | -              | 360            | 100         | H        |
| * 11.949        | 38.08                | PK1 | 39.1           | -23.8                 | 53.38                      | -                  | -           | 74                  | -20.62         | -                            | -              | 360            | 100         | V        |
| * 11.947        | 26.03                | AD1 | 39.1           | -23.7                 | 41.43                      | 54                 | -12.57      | -                   | -              | -                            | -              | 360            | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

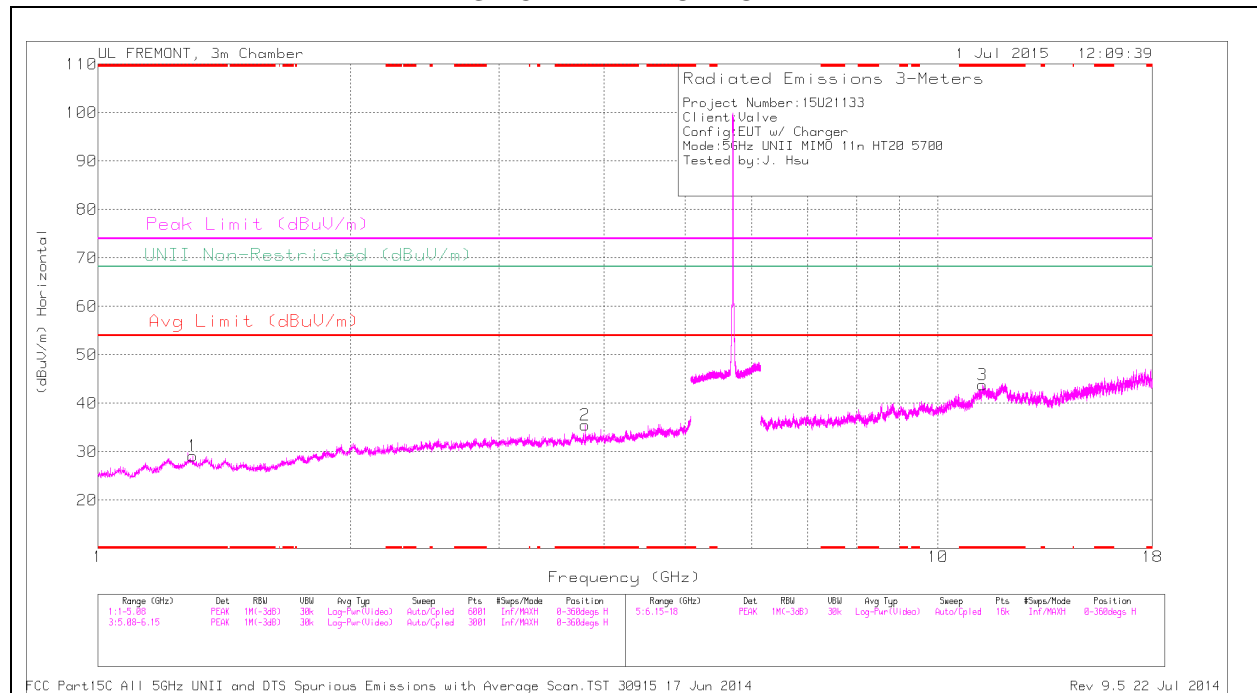
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

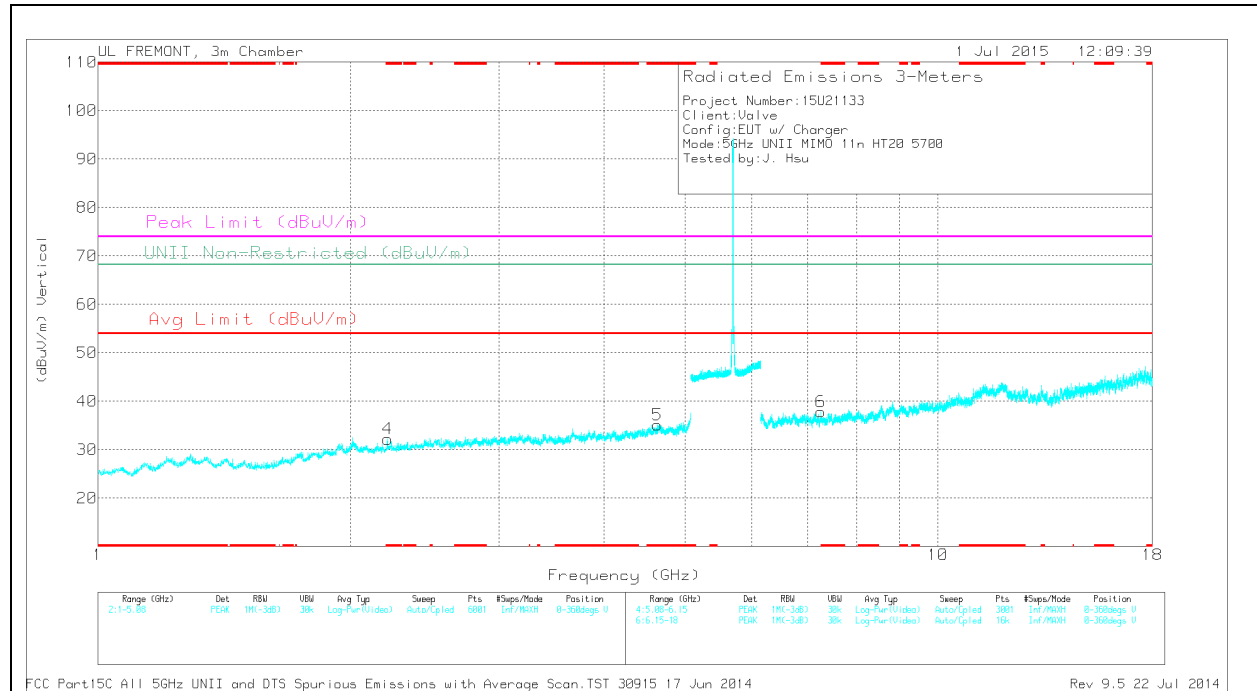
HIGH CHANNEL HORIZONTAL



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



# 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.

## HIGH CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | 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      | * 1.297         | 32.27                | PK  | 29.9           | -33                    | 29.17                      | -                  | -           | 74                  | -44.83         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 3.8           | 33.43                | PK  | 33.1           | -31                    | 35.53                      | -                  | -           | 74                  | -38.47         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 2.211         | 32.5                 | PK  | 31.4           | -31.7                  | 32.2                       | -                  | -           | 74                  | -41.8          | -                            | -              | 0-360          | 200         | V        |
| 5      | * 4.637         | 30.82                | PK  | 33.9           | -29.6                  | 35.12                      | -                  | -           | 74                  | -38.88         | -                            | -              | 0-360          | 200         | V        |
| 3      | * 11.304        | 28.65                | PK  | 38.1           | -22.9                  | 43.85                      | -                  | -           | 74                  | -30.15         | -                            | -              | 0-360          | 100         | H        |
| 6      | * 7.251         | 30.23                | PK  | 35.6           | -28                    | 37.83                      | -                  | -           | 74                  | -36.17         | -                            | -              | 0-360          | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/FI tr/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 |
|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.297         | 41.21                | PK1 | 29.9           | -33                    | 38.11                      | -                  | -           | 74                  | -35.89         | -                            | -              | 360            | 200         | H        |
| * 1.299         | 29.77                | AD1 | 29.9           | -33                    | 26.67                      | 54                 | -27.33      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 3.8           | 40.84                | PK1 | 33.1           | -31                    | 42.94                      | -                  | -           | 74                  | -31.06         | -                            | -              | 360            | 200         | H        |
| * 3.8           | 31.04                | AD1 | 33.1           | -31                    | 33.14                      | 54                 | -20.86      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 2.21          | 40.71                | PK1 | 31.4           | -31.8                  | 40.31                      | -                  | -           | 74                  | -33.69         | -                            | -              | 360            | 200         | V        |
| * 2.21          | 29.64                | AD1 | 31.4           | -31.8                  | 29.24                      | 54                 | -24.76      | -                   | -              | -                            | -              | 360            | 200         | V        |
| * 4.638         | 39.85                | PK1 | 33.9           | -29.6                  | 44.15                      | -                  | -           | 74                  | -29.85         | -                            | -              | 360            | 200         | V        |
| * 4.636         | 28.34                | AD1 | 33.9           | -29.6                  | 32.64                      | 54                 | -21.36      | -                   | -              | -                            | -              | 360            | 200         | V        |
| * 11.305        | 36.96                | PK1 | 38.1           | -22.9                  | 52.16                      | -                  | -           | 74                  | -21.84         | -                            | -              | 360            | 200         | H        |
| * 11.306        | 25.68                | AD1 | 38.1           | -22.9                  | 40.88                      | 54                 | -13.12      | -                   | -              | -                            | -              | 360            | 200         | H        |
| * 7.25          | 38.66                | PK1 | 35.6           | -28                    | 46.26                      | -                  | -           | 74                  | -27.74         | -                            | -              | 360            | 200         | V        |
| * 7.251         | 27.6                 | AD1 | 35.6           | -28                    | 35.2                       | 54                 | -18.8       | -                   | -              | -                            | -              | 360            | 200         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

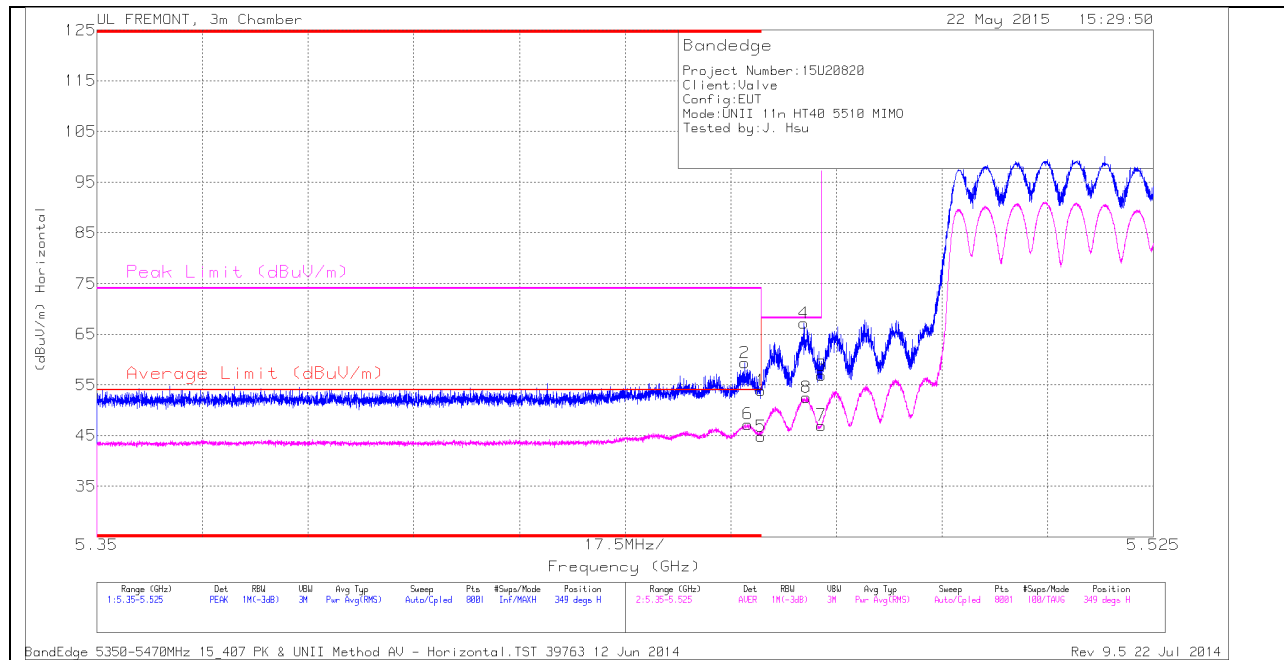
AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

# **13.2.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.5 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)**

## **HORIZONTAL PEAK AND AVERAGE PLOT**



## **HORIZONTAL DATA**

### **Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fit r/Pad (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          | 40.68                | PK  | 34.6           | -21.4                  | 0            | 53.88                      | -                      | -           | 74                  | -20.12         | 349            | 170         | H        |
| 2      | * 5.457         | 46.2                 | PK  | 34.6           | -21.4                  | 0            | 59.4                       | -                      | -           | 74                  | -14.6          | 349            | 170         | H        |
| 5      | * 5.46          | 30.99                | RMS | 34.6           | -21.4                  | .64          | 44.83                      | 54                     | -9.17       | -                   | -              | 349            | 170         | H        |
| 6      | * 5.458         | 33.41                | RMS | 34.6           | -21.4                  | .64          | 47.25                      | 54                     | -6.75       | -                   | -              | 349            | 170         | H        |
| 4      | 5.467           | 53.84                | PK  | 34.6           | -21.3                  | 0            | 67.14                      | -                      | -           | 68.2                | -1.06          | 349            | 170         | H        |
| 8      | 5.468           | 38.63                | RMS | 34.6           | -21.3                  | .64          | 52.57                      | -                      | -           | -                   | -              | 349            | 170         | H        |
| 3      | 5.47            | 43.55                | PK  | 34.6           | -21.3                  | 0            | 56.85                      | -                      | -           | 68.2                | -11.35         | 349            | 170         | H        |
| 7      | 5.47            | 33.06                | RMS | 34.6           | -21.3                  | .64          | 47                         | -                      | -           | -                   | -              | 349            | 170         | H        |

\* - indicates frequency in CFR 47, Part 15 and Industry Canada RSS-Restricted Band.

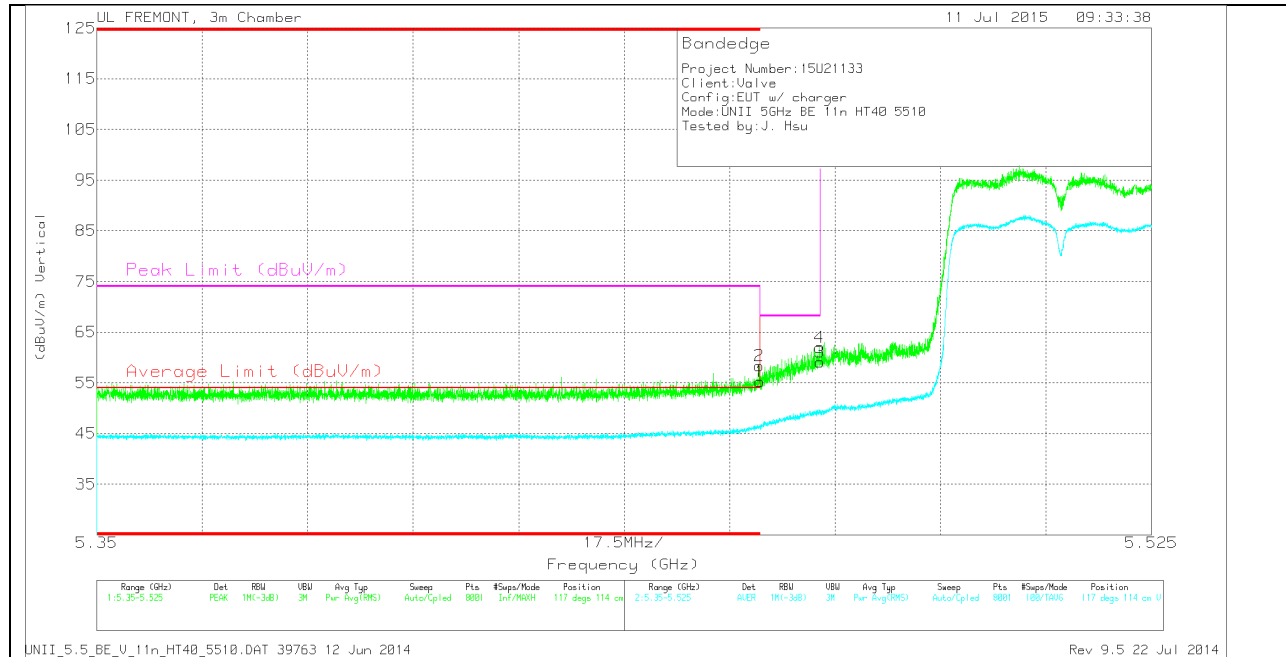
PK - Peak detector

RMS - RMS detection

BandEdge 5350-5470MHz 15\_407 PK & UNII Method AV - Horizontal.TST 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

# VERTICAL PEAK AND AVERAGE PLOT



## VERTICAL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fit r/Pad (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          | 41.38                | PK  | 34.6           | -20.7                  | 0            | 55.28                      | -                      | -           | 74                  | -18.72         | 117            | 114         | V        |
| 2      | * 5.46          | 44.51                | PK  | 34.6           | -20.7                  | 0            | 58.41                      | -                      | -           | 74                  | -15.59         | 117            | 114         | V        |
| 5      | * 5.46          | 31.28                | RMS | 34.6           | -20.7                  | .8           | 45.98                      | 54                     | -8.02       | -                   | -              | 117            | 114         | V        |
| 6      | * 5.46          | 31.94                | RMS | 34.6           | -20.7                  | .8           | 46.64                      | 54                     | -7.36       | -                   | -              | 117            | 114         | V        |
| 3      | 5.47            | 45.08                | PK  | 34.6           | -20.6                  | 0            | 59.08                      | -                      | -           | 68.2                | -9.12          | 117            | 114         | V        |
| 4      | 5.47            | 47.91                | PK  | 34.6           | -20.6                  | 0            | 61.91                      | -                      | -           | 68.2                | -6.29          | 117            | 114         | V        |
| 7      | 5.47            | 34.32                | RMS | 34.6           | -20.6                  | .8           | 49.12                      | -                      | -           | -                   | -              | 117            | 114         | V        |
| 8      | 5.47            | 34.86                | RMS | 34.6           | -20.6                  | .8           | 49.66                      | -                      | -           | -                   | -              | 117            | 114         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

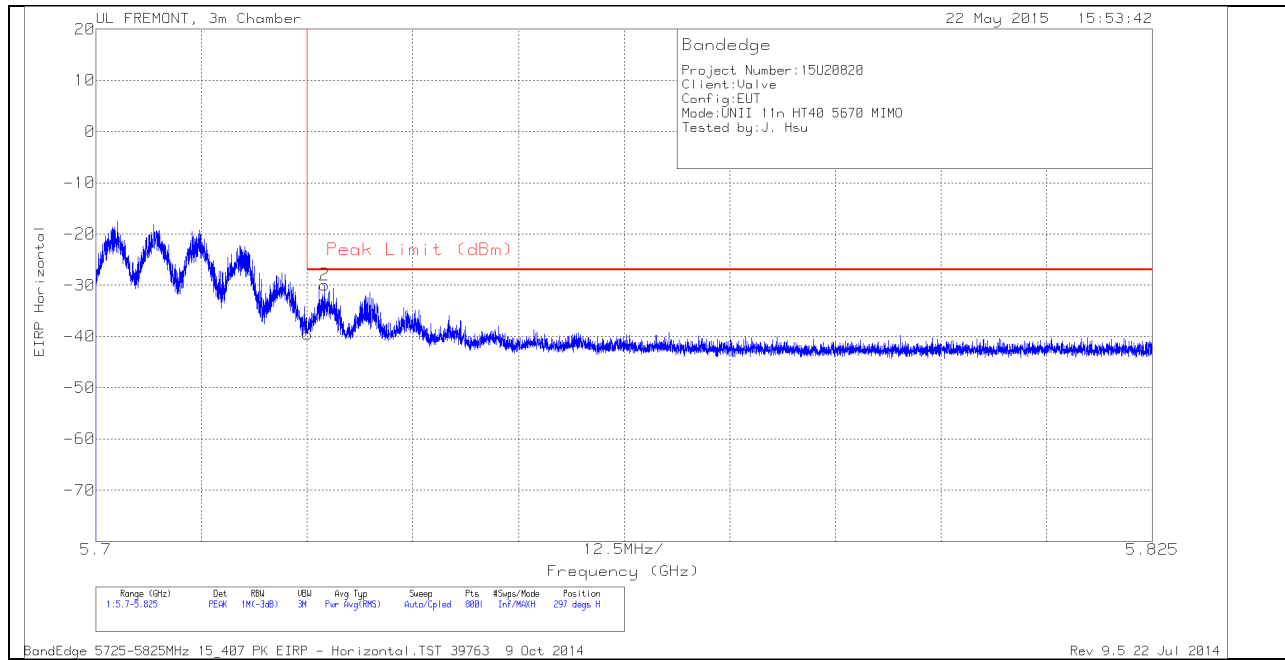
RMS - RMS detection

UNII\_5.5\_BE\_V\_11n\_HT40\_5510.DAT 39763 12 Jun 2014

Rev 9.5 22 Jul 2014

## AUTHORIZED BANDEDGE (HIGH CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

#### Trace Markers

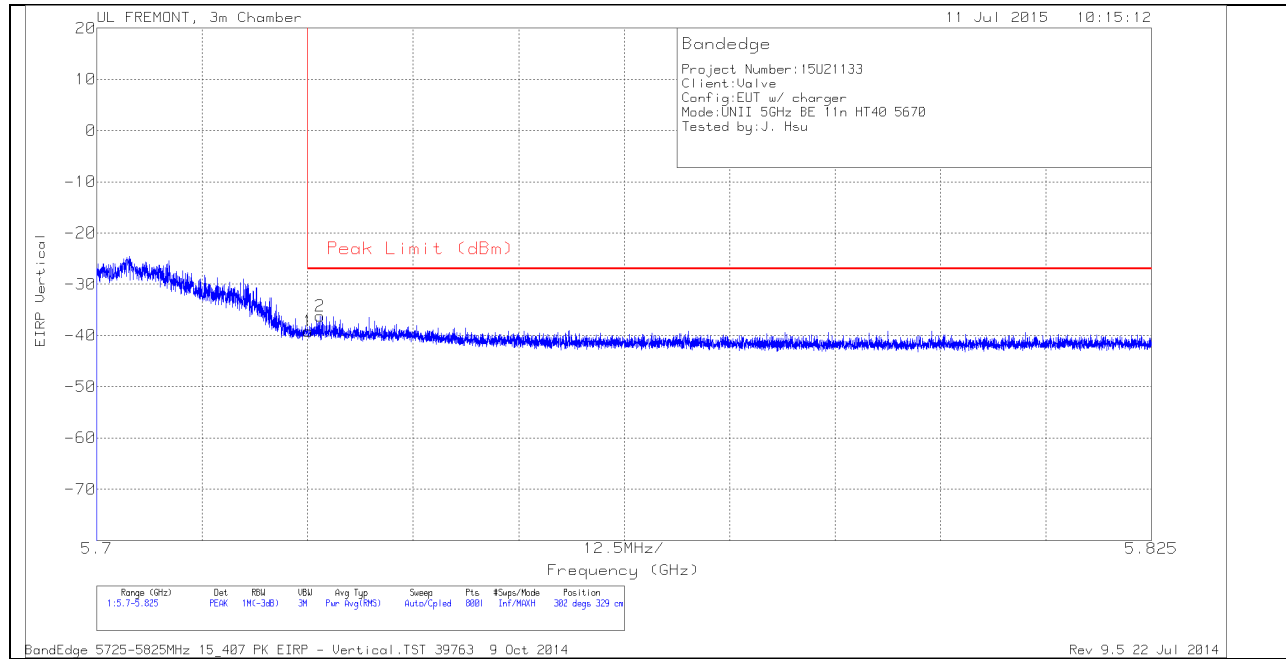
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | -65.04              | PK  | 34.8           | -21.1                  | 11.8                   | -39.54                 | -27              | -12.54         | 297            | 358         | H        |
| 2      | 5.727           | -55.39              | PK  | 34.8           | -21.1                  | 11.8                   | -29.89                 | -27              | -2.89          | 297            | 358         | H        |

PK - Peak detector

BandEdge 5725-5825MHz 15\_407 PK EIRP - Horizontal.TST 39763 9 Oct 2014

Rev 9.5 22 Jul 2014

### VERTICAL PEAK AND AVERAGE PLOT



### VERTICAL DATA

#### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T119 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | -65.49              | PK  | 34.8           | -20.3                  | 11.8                   | -39.19                 | -27              | -12.19         | 302            | 329         | V        |
| 2      | 5.726           | -62.48              | PK  | 34.8           | -20.3                  | 11.8                   | -36.18                 | -27              | -9.18          | 302            | 329         | V        |

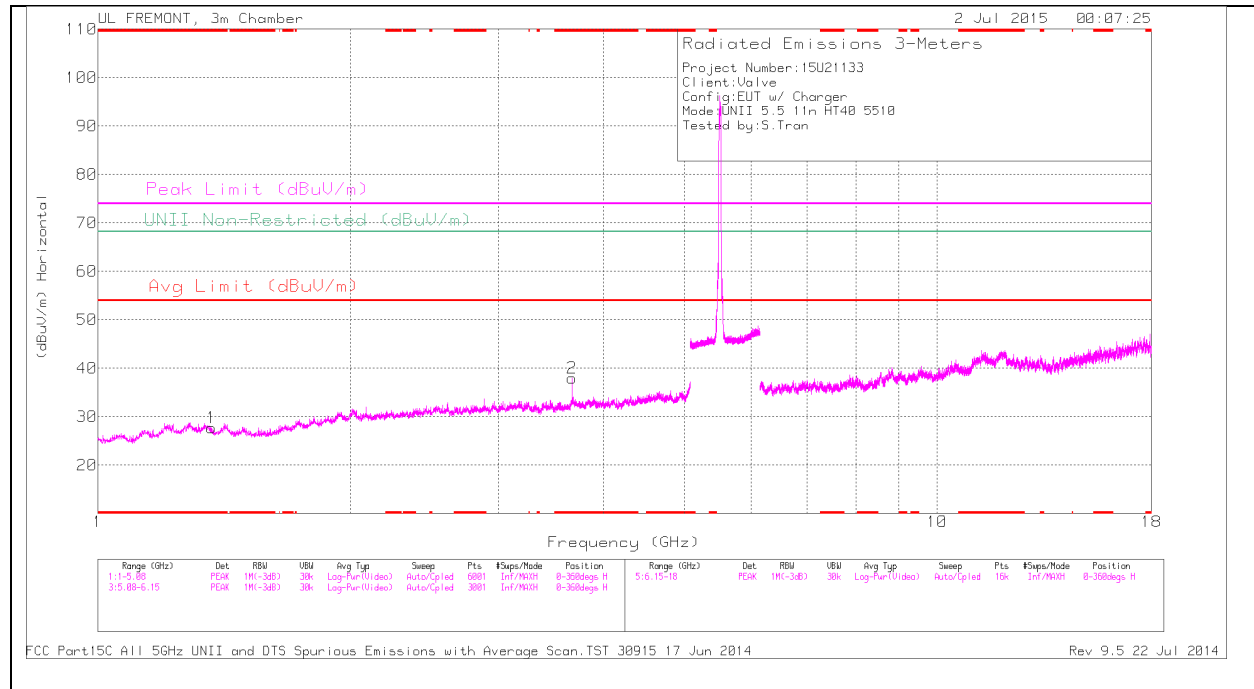
PK - Peak detector

BandEdge 5725-5825MHz 15\_407 PK EIRP - Vertical.TST 39763 9 Oct 2014

Rev 9.5 22 Jul 2014

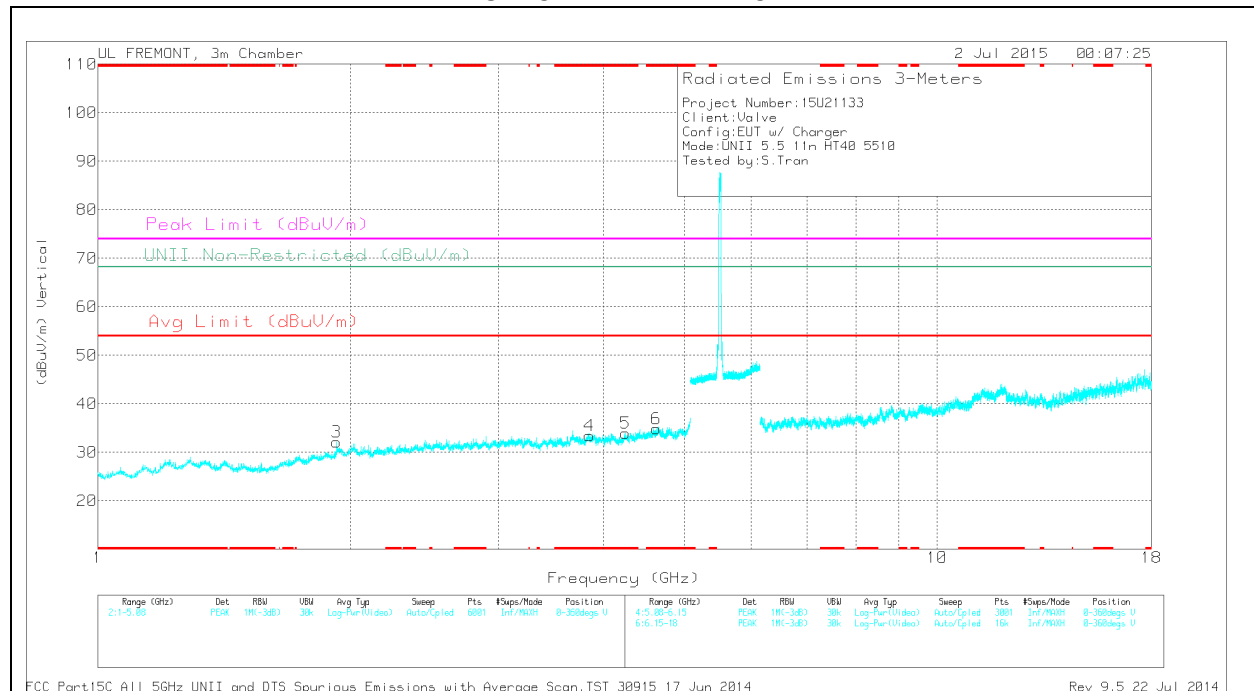
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL HORIZONTAL



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

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.



## LOW CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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      | * 1.366         | 31.27                | PK  | 29.1           | -32.6                | 0            | 27.77                      | -                  | -           | 74                  | -46.23         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 3.673         | 34.73                | PK  | 33             | -29.7                | 0            | 38.03                      | -                  | -           | 74                  | -35.97         | -                            | -              | 0-360          | 100         | H        |
| 4      | * 3.851         | 30.43                | PK  | 33.1           | -30.1                | 0            | 33.43                      | -                  | -           | 74                  | -40.57         | -                            | -              | 0-360          | 100         | V        |
| 5      | * 4.25          | 30.57                | PK  | 33.4           | -30                  | 0            | 33.97                      | -                  | -           | 74                  | -40.03         | -                            | -              | 0-360          | 200         | V        |
| 6      | * 4.626         | 30.49                | PK  | 33.9           | -29.5                | 0            | 34.89                      | -                  | -           | 74                  | -39.11         | -                            | -              | 0-360          | 100         | V        |
| 3      | 1.925           | 32.81                | PK  | 31.2           | -31.9                | 0            | 32.11                      | -                  | -           | -                   | -              | 68.2                         | -36.09         | 0-360          | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.364         | 41.83                | PK1 | 29.1           | -32.6                | 0            | 38.33                      | -                  | -           | 74                  | -35.67         | -                            | -              | 0              | 100         | H        |
| * 1.367         | 29.19                | AD1 | 29             | -32.6                | .8           | 26.39                      | 54                 | -27.61      | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 3.673         | 40.44                | PK1 | 33             | -29.7                | 0            | 43.74                      | -                  | -           | 74                  | -30.26         | -                            | -              | 0              | 100         | H        |
| * 3.673         | 28.9                 | AD1 | 33             | -29.7                | .8           | 33                         | 54                 | -21         | -                   | -              | -                            | -              | 0              | 100         | H        |
| * 3.852         | 40.06                | PK1 | 33.1           | -30                  | 0            | 43.16                      | -                  | -           | 74                  | -30.84         | -                            | -              | 0              | 100         | V        |
| * 3.849         | 28.53                | AD1 | 33.1           | -30.2                | .8           | 32.23                      | 54                 | -21.77      | -                   | -              | -                            | -              | 0              | 100         | V        |
| * 4.249         | 39.95                | PK1 | 33.4           | -30.1                | 0            | 43.25                      | -                  | -           | 74                  | -30.75         | -                            | -              | 0              | 200         | V        |
| * 4.251         | 28.59                | AD1 | 33.4           | -30                  | .8           | 32.79                      | 54                 | -21.21      | -                   | -              | -                            | -              | 0              | 200         | V        |
| 1.926           | 40.72                | PK1 | 31.2           | -31.9                | 0            | 40.02                      | -                  | -           | -                   | -              | 68.2                         | -28.18         | 0              | 100         | V        |
| 1.927           | 29.35                | AD1 | 31.2           | -31.9                | .8           | 29.45                      | -                  | -           | -                   | -              | -                            | -              | 0              | 100         | V        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

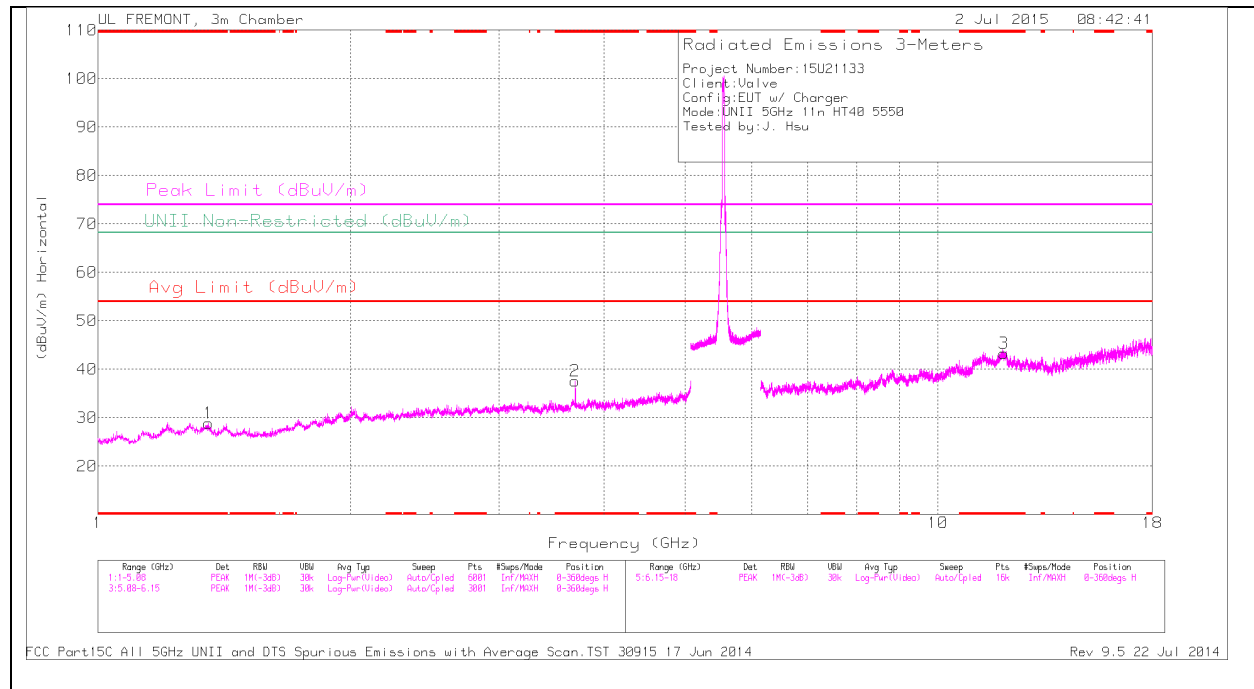
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

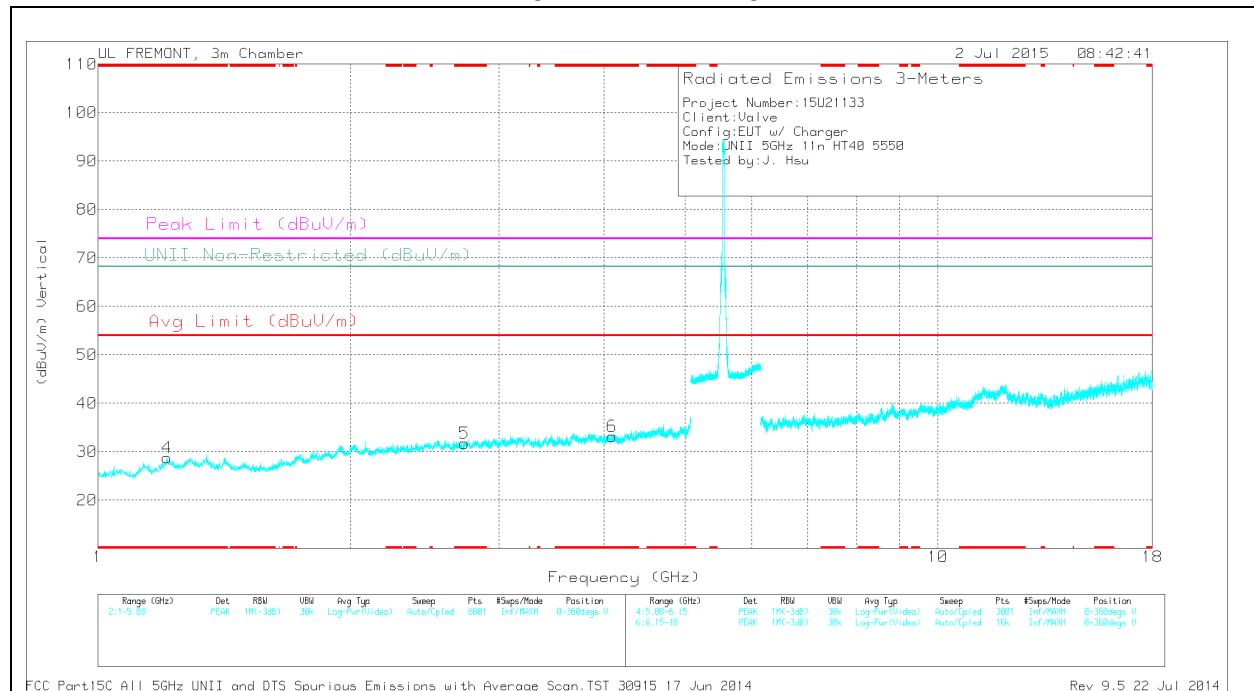
Rev 9.5 22 Jul 2014

MID CHANNEL HORIZONTAL



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

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.

## MID CHANNEL DATA

### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/ Ftr/Pad (dB) | DC Corr (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      | * 1.354         | 32.37                | PK  | 29.2           | -32.7                 | 0            | 28.87                      | -                  | -           | 74                  | -45.13         | -                            | -              | 0-360          | 100         | H        |
| 2      | * 3.7           | 34.82                | PK  | 33             | -30.2                 | 0            | 37.62                      | -                  | -           | 74                  | -36.38         | -                            | -              | 0-360          | 200         | H        |
| 4      | * 1.209         | 32.43                | PK  | 29             | -32.7                 | 0            | 28.73                      | -                  | -           | 74                  | -45.27         | -                            | -              | 0-360          | 100         | V        |
| 5      | * 2.731         | 31                   | PK  | 32.4           | -31.6                 | 0            | 31.8                       | -                  | -           | 74                  | -42.2          | -                            | -              | 0-360          | 200         | V        |
| 6      | * 4.096         | 30.09                | PK  | 33.3           | -30.2                 | 0            | 33.19                      | -                  | -           | 74                  | -40.81         | -                            | -              | 0-360          | 200         | V        |
| 3      | * 11.986        | 27.63                | PK  | 39.1           | -23.4                 | 0            | 43.33                      | -                  | -           | 74                  | -30.67         | -                            | -              | 0-360          | 100         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

### Radiated Emissions

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (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 |
|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.354         | 41.36                | PK1 | 29.2           | -32.7                | 0            | 37.86                      | -                  | -           | 74                  | -36.14         | -                            | -              | 3              | 100         | H        |
| * 1.353         | 29.89                | AD1 | 29.2           | -32.7                | .8           | 27.19                      | 54                 | -26.81      | -                   | -              | -                            | -              | 3              | 100         | H        |
| * 3.7           | 42.36                | PK1 | 33             | -30.2                | 0            | 45.16                      | -                  | -           | 74                  | -28.84         | -                            | -              | 295            | 103         | H        |
| * 3.7           | 34.44                | AD1 | 33             | -30.2                | .8           | 38.04                      | 54                 | -15.96      | -                   | -              | -                            | -              | 295            | 103         | H        |
| * 1.209         | 42.19                | PK1 | 29             | -32.7                | 0            | 38.49                      | -                  | -           | 74                  | -35.51         | -                            | -              | 295            | 103         | V        |
| * 1.21          | 30.28                | AD1 | 29             | -32.7                | .8           | 27.38                      | 54                 | -26.62      | -                   | -              | -                            | -              | 295            | 103         | V        |
| * 2.729         | 40.64                | PK1 | 32.4           | -31.6                | 0            | 41.44                      | -                  | -           | 74                  | -32.56         | -                            | -              | 295            | 103         | V        |
| * 2.73          | 29.27                | AD1 | 32.4           | -31.6                | .8           | 30.87                      | 54                 | -23.13      | -                   | -              | -                            | -              | 295            | 103         | V        |
| * 4.094         | 40.02                | PK1 | 33.3           | -30.2                | 0            | 43.12                      | -                  | -           | 74                  | -30.88         | -                            | -              | 295            | 103         | V        |
| * 4.097         | 28.62                | AD1 | 33.3           | -30.1                | .8           | 32.62                      | 54                 | -21.38      | -                   | -              | -                            | -              | 295            | 103         | V        |
| * 11.988        | 37.3                 | PK1 | 39.1           | -23.4                | 0            | 53                         | -                  | -           | 74                  | -21            | -                            | -              | 295            | 103         | H        |
| * 11.987        | 25.44                | AD1 | 39.1           | -23.4                | .8           | 41.94                      | 54                 | -12.06      | -                   | -              | -                            | -              | 295            | 103         | H        |

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

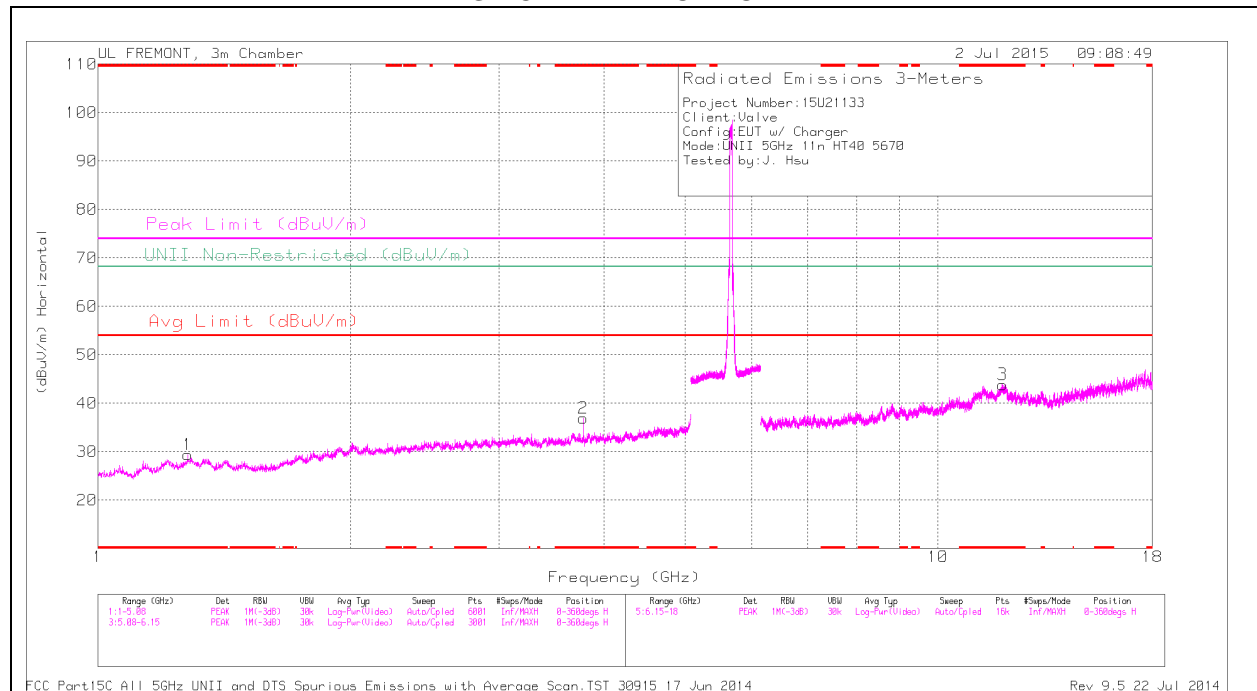
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30915 17 Jun 2014

Rev 9.5 22 Jul 2014

HIGH CHANNEL HORIZONTAL



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