

## **APPENDIX B – TEST DATA OF RADIATED EMISSION**

### **Radiated Emission Band Edge**

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

| Test Mode      | Data Rate       |
|----------------|-----------------|
| 802.11a        | 6Mbps           |
| 802.11n HT20   | MCS0(6.5 Mbps)  |
| 802.11n HT40   | MCS0(13.5 Mbps) |
| 802.11ac VHT20 | MCS0(6.5 Mbps)  |
| 802.11ac VHT40 | MCS0(13.5 Mbps) |
| 802.11ac VHT80 | MCS0(29.3 Mbps) |

We chose the Worst-modes are shown as following table:

| Test Mode      | Chain         | Note                 |
|----------------|---------------|----------------------|
| 802.11a        | Chain1        | ---                  |
| 802.11n HT20   | Chain0+Chain1 | Cover 802.11ac VHT20 |
| 802.11n HT40   | Chain0+Chain1 | Cover 802.11n HT40   |
| 802.11ac VHT80 | Chain0+Chain1 | ---                  |

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Note : There were no emissions above 18GHz found within 20dB of the limit. Thus the test result was not reported according to §15.31 ( o )

The measurement results are obtained as described below:

Measure Level = Reading Level + Cable loss + Antenna factor Sample calculation: (88.70 dBuV/m) = (41.80 dBμV) + (12.40 dB) + (34.50 dB), the corresponding frequency is 5180MHz.

### 【5150-5250】

#### ● 802.11a

Carrier Frequency (MHz): 5180

Channel No.: 36

Test Mode: 802.11a

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5180.0          | 41.80                | 88.70                  | N/A             | N/A            | 12.40           | 34.50               |
| 5150.0          | 12.80                | 59.70                  | -14.30          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5180.0          | 23.40                | 70.30                  | N/A             | N/A            | 12.40           | 34.50               |
| 5150.0          | -10.20               | 36.70                  | -17.30          | 54.00          | 12.40           | 34.50               |

Carrier Frequency (MHz): 5240

Channel No.: 48

Test Mode: 802.11a

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5240.0          | 44.10                | 91.00                  | N/A             | N/A            | 12.40           | 34.50               |
| 5250.0          | -4.90                | 42.00                  | -32.00          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5240.0          | 25.80                | 72.70                  | N/A             | N/A            | 12.40           | 34.50               |
| 5250.0          | 0.50                 | 47.40                  | -6.60           | 54.00          | 12.40           | 34.50               |

● 802.11n (HT20)

Carrier Frequency (MHz): 5180

Channel No.: 36

Test Mode: 802.11n (HT20)

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5180.0          | 44.90                | 91.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5150.0          | -10.80               | 36.10                  | -37.90          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5180.0          | 27.40                | 74.30                  | N/A             | N/A            | 12.40           | 34.50               |
| 5150.0          | -23.60               | 23.30                  | -30.70          | 54.00          | 12.40           | 34.50               |

Carrier Frequency (MHz): 5240

Channel No.: 48

Test Mode: 802.11n (HT20)

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5240.0          | 45.80                | 92.70                  | N/A             | N/A            | 12.40           | 34.50               |
| 5250.0          | -1.90                | 45.00                  | -29.00          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5240.0          | 24.30                | 71.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5250.0          | -6.90                | 40.00                  | -14.00          | 54.00          | 12.40           | 34.50               |

● 802.11n (HT40)

Carrier Frequency (MHz): 5190

**Channel No.: 38**  
**Test Mode: 802.11n (HT40)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5190.0          | 42.60                | 89.50                  | N/A             | N/A            | 12.40           | 34.50               |
| 5150.0          | 21.40                | 68.30                  | -5.70           | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5190.0          | 30.70                | 77.60                  | N/A             | N/A            | 12.40           | 5190.0              |
| 5150.0          | 3.80                 | 50.70                  | -3.30           | 54.00          | 12.40           | 5150.0              |

**Carrier Frequency (MHz): 5230**  
**Channel No.: 46**  
**Test Mode: 802.11n (HT40)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5230.0          | 38.80                | 85.70                  | N/A             | N/A            | 12.40           | 34.50               |
| 5250.0          | 25.90                | 72.80                  | -1.20           | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5230.0          | 25.80                | 72.70                  | N/A             | N/A            | 12.40           | 34.50               |
| 5250.0          | -0.50                | 46.40                  | -7.60           | 54.00          | 12.40           | 34.50               |

● **802.11ac (VHT80)**

**Carrier Frequency (MHz): 5210**  
**Channel No.: 42**  
**Test Mode: 802.11ac (VHT80)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5210.0          | 40.60                | 87.50                  | N/A             | N/A            | 12.40           | 34.50               |
| 5150.0          | 13.50                | 60.40                  | -13.60          | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5210.0          | 25.30                | 72.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5150.0          | 1.80                 | 48.70                  | -5.30           | 54.00          | 12.40           | 34.50               |

### 【5250-5350】

#### ● 802.11a

Carrier Frequency (MHz): 5260

Channel No.: 52

Test Mode: 802.11a

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5260.0          | 43.30                | 90.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5240.0          | 19.30                | 66.20                  | -7.80           | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5260.0          | 13.60                | 60.50                  | N/A             | N/A            | 12.40           | 34.50               |
| 5240.0          | -2.80                | 44.10                  | -9.90           | 54.00          | 12.40           | 34.50               |

Carrier Frequency (MHz): 5320

Channel No.: 64

Test Mode: 802.11a

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5320.0          | 45.10                | 92.00                  | N/A             | N/A            | 12.40           | 34.50               |
| 5340.0          | 20.00                | 66.90                  | -7.10           | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5320.0          | 13.30                | 60.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5340.0          | 0.20                 | 47.10                  | -6.90           | 54.00          | 12.40           | 34.50               |

#### ● 802.11n (HT20)

Carrier Frequency (MHz): 5260

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**Channel No.: 52**  
**Test Mode: 802.11n (HT20)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5260.0          | 38.40                | 85.30                  | N/A             | N/A            | 12.40           | 34.50               |
| 5240.0          | 14.60                | 61.50                  | -12.50          | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5260.0          | 32.00                | 78.90                  | N/A             | N/A            | 12.40           | 34.50               |
| 5240.0          | 2.90                 | 49.80                  | -4.20           | 54.00          | 12.40           | 34.50               |

**Carrier Frequency (MHz): 5320**  
**Channel No.: 64**  
**Test Mode: 802.11n (HT20)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5320.0          | 40.70                | 87.60                  | N/A             | N/A            | 12.40           | 34.50               |
| 5340.0          | 16.30                | 63.20                  | -10.80          | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5320.0          | 31.20                | 78.10                  | N/A             | N/A            | 12.40           | 34.50               |
| 5340.0          | 1.70                 | 48.60                  | -5.40           | 54.00          | 12.40           | 34.50               |

● **802.11n (HT40)**

**Carrier Frequency (MHz): 5270**  
**Channel No.: 54**  
**Test Mode: 802.11n (HT40)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5270.0          | 45.50                | 92.40                  | N/A             | N/A            | 12.40           | 34.50               |
| 5230.0          | 8.40                 | 55.30                  | -18.70          | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5270.0          | 36.90                | 83.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5230.0          | -14.80               | 32.10                  | -21.90          | 54.00          | 12.40           | 34.50               |

**Carrier Frequency (MHz): 5310**

**Channel No.: 60**

**Test Mode: 802.11n (HT40)**

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5310.0          | 50.70                | 97.60                  | N/A             | N/A            | 12.40           | 34.50               |
| 5350.0          | 3.80                 | 50.70                  | -23.30          | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5310.0          | 33.50                | 80.40                  | N/A             | N/A            | 12.40           | 34.50               |
| 5350.0          | -20.00               | 26.90                  | -27.10          | 54.00          | 12.40           | 34.50               |

### ● 802.11ac (VHT80)

**Carrier Frequency (MHz): 5290**

**Channel No.: 58**

**Test Mode: 802.11ac (VHT80)**

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5290.0          | 38.40                | 85.30                  | N/A             | N/A            | 12.40           | 34.50               |
| 5210.0          | 18.40                | 65.30                  | -8.70           | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5290.0          | 21.10                | 68.00                  | N/A             | N/A            | 12.40           | 34.50               |
| 5210.0          | 0.50                 | 47.40                  | -6.60           | 54.00          | 12.40           | 34.50               |

# 【5470-5725】

## ● 802.11a

Carrier Frequency (MHz): 5500

Channel No.: 100

Test Mode: 802.11a

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5500.0          | 39.40                | 86.30                  | N/A             | N/A            | 12.40           | 34.50               |
| 5480.0          | 3.40                 | 50.30                  | -23.70          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5500.0          | 18.80                | 65.70                  | N/A             | N/A            | 12.40           | 34.50               |
| 5480.0          | -13.20               | 33.70                  | -20.30          | 54.00          | 12.40           | 34.50               |

Carrier Frequency (MHz): 5700

Channel No.: 140

Test Mode: 802.11a

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5700.0          | 37.28                | 84.18                  | N/A             | N/A            | 12.40           | 34.50               |
| 5720.0          | 1.10                 | 48.00                  | -26.00          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5700.0          | 23.40                | 70.30                  | N/A             | N/A            | 12.40           | 34.50               |
| 5720.0          | -14.20               | 32.70                  | -21.30          | 54.00          | 12.40           | 34.50               |

## ● 802.11n (HT20)

Carrier Frequency (MHz): 5500

Channel No.: 100

## Test Mode: 802.11n (HT20)

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5500.0          | 38.30                | 85.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5480.0          | -0.90                | 46.00                  | -28.00          | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5500.0          | 17.90                | 64.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5480.0          | -2.90                | 44.00                  | -10.00          | 54.00          | 12.40           | 34.50               |

## Carrier Frequency (MHz): 5700

### Channel No.: 140

## Test Mode: 802.11n (HT20)

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5700.0          | 40.80                | 87.70                  | N/A             | N/A            | 12.40           | 34.50               |
| 5720.0          | 18.00                | 64.90                  | -9.10           | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5700.0          | 21.60                | 68.50                  | N/A             | N/A            | 12.40           | 34.50               |
| 5720.0          | -0.50                | 46.40                  | -7.60           | 54.00          | 12.40           | 34.50               |

## ● 802.11n (HT40)

## Carrier Frequency (MHz): 5510

### Channel No.: 102

## Test Mode: 802.11n (HT40)

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5510.0          | 44.90                | 91.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5470.0          | 18.30                | 65.20                  | -8.80           | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5510.0          | 26.90                | 73.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5470.0          | 3.30                 | 50.20                  | -3.80           | 54.00          | 12.40           | 34.50               |

**Carrier Frequency (MHz): 5670**  
**Channel No.: 134**  
**Test Mode: 802.11n (HT40)**  
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5670.0          | 37.30                | 84.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5710.0          | 13.10                | 60.00                  | -14.00          | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5670.0          | 24.90                | 71.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5710.0          | -1.90                | 45.00                  | -9.00           | 54.00          | 12.40           | 34.50               |

● **802.11ac (VHT80)**  
**Carrier Frequency (MHz): 5530**  
**Channel No.: 106**  
**Test Mode: 802.11ac (VHT80)**  
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5530.0          | 30.90                | 77.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5450.0          | 21.70                | 68.60                  | -5.40           | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5530.0          | 16.50                | 63.40                  | N/A             | N/A            | 12.40           | 34.50               |
| 5450.0          | 4.10                 | 51.00                  | -3.00           | 54.00          | 12.40           | 34.50               |

**Carrier Frequency (MHz): 5690**  
**Channel No.: 138**

## Test Mode: 802.11ac (VHT80)

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5690.0          | 36.50                | 83.40                  | N/A             | N/A            | 12.40           | 34.50               |
| 5770.0          | 14.50                | 61.40                  | -12.60          | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5690.0          | 22.90                | 69.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5770.0          | 0.30                 | 47.20                  | -6.80           | 54.00          | 12.40           | 34.50               |

## 【5725-5850】

### ● 802.11a

Carrier Frequency (MHz): 5745

Channel No.: 149

Test Mode: 802.11a

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5745.0          | 41.10                | 88.00                  | N/A             | N/A            | 12.40           | 34.50               |
| 5725.0          | 11.50                | 58.40                  | -15.60          | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5745.0          | 29.30                | 76.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5725.0          | -1.90                | 45.00                  | -9.00           | 54.00          | 12.40           | 34.50               |

Carrier Frequency (MHz): 5825

Channel No.: 165

Test Mode: 802.11a

### Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5825.0          | 43.40                | 90.30                  | N/A             | N/A            | 12.40           | 34.50               |
| 5845.0          | 6.00                 | 52.90                  | -21.10          | 74.00          | 12.40           | 34.50               |

### Detector: Average

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V3.0.0

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5825.0          | 25.30                | 72.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5845.0          | -6.60                | 40.30                  | -13.70          | 54.00          | 12.40           | 34.50               |

● 802.11n (HT20)

Carrier Frequency (MHz): 5745

Channel No.: 149

Test Mode: 802.11n (HT20)

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5745.0          | 44.90                | 91.80                  | N/A             | N/A            | 12.40           | 34.50               |
| 5725.0          | 8.70                 | 55.60                  | -18.40          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5745.0          | 31.30                | 78.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5725.0          | -15.30               | 31.60                  | -22.40          | 54.00          | 12.40           | 34.50               |

Carrier Frequency (MHz): 5825

Channel No.: 165

Test Mode: 802.11n (HT20)

Detector: Peak

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5825.0          | 45.20                | 92.10                  | N/A             | N/A            | 12.40           | 34.50               |
| 5845.0          | 9.40                 | 56.30                  | -17.70          | 74.00          | 12.40           | 34.50               |

Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5825.0          | 21.60                | 68.50                  | N/A             | N/A            | 12.40           | 34.50               |
| 5845.0          | -10.40               | 36.50                  | -17.50          | 54.00          | 12.40           | 34.50               |

● 802.11n (HT40)

Carrier Frequency (MHz): 5755

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V3.0.0

**Channel No.: 151**  
**Test Mode: 802.11n (HT40)**  
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5755.0          | 40.30                | 87.20                  | N/A             | N/A            | 12.40           | 34.50               |
| 5715.0          | 20.00                | 66.90                  | -7.10           | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5755.0          | 16.70                | 63.60                  | N/A             | N/A            | 12.40           | 34.50               |
| 5715.0          | -12.00               | 34.90                  | -19.10          | 54.00          | 12.40           | 34.50               |

**Carrier Frequency (MHz): 5795**  
**Channel No.: 159**  
**Test Mode: 802.11n (HT40)**

**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5795.0          | 39.70                | 86.60                  | N/A             | N/A            | 12.40           | 34.50               |
| 5835.0          | 12.60                | 59.50                  | -14.50          | 74.00          | 12.40           | 34.50               |

**Detector: Average**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5795.0          | 17.00                | 63.90                  | N/A             | N/A            | 12.40           | 34.50               |
| 5835.0          | 0.70                 | 47.60                  | -6.40           | 54.00          | 12.40           | 34.50               |

● **802.11ac (VHT80)**  
**Carrier Frequency (MHz): 5775**  
**Channel No.: 155**  
**Test Mode: 802.11ac (VHT80)**  
**Detector: Peak**

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5775.0          | 23.00                | 69.90                  | N/A             | N/A            | 12.40           | 34.50               |
| 5695.0          | 11.70                | 58.60                  | -15.40          | 74.00          | 12.40           | 34.50               |

### Detector: Average

| Frequency (MHz) | Reading Level (dBuV) | Measure Level (dBuV/m) | Over Limit (dB) | Limit (dBuV/m) | Cable Loss (dB) | Antenna Factor (dB) |
|-----------------|----------------------|------------------------|-----------------|----------------|-----------------|---------------------|
| 5775.0          | 22.70                | 69.60                  | N/A             | N/A            | 12.40           | 34.50               |
| 5695.0          | -2.30                | 44.60                  | -9.40           | 54.00          | 12.40           | 34.50               |

### Sample Calculations:

#### Determining Spurious Emissions Levels

A “reference path loss” is established and the  $A_{Rpl}$  is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss. The measurement results are obtained as described below:

Below 1GHz:

$QuasiPeak = Reading\ Value + A_{Rpl}$

Above 1GHz:

$MaxPeak = Reading\ MaxPeak + A_{Rpl}$

OR

$Average = Reading\ Average + A_{Rpl}$

Sample calculation:  $(15.95\ dB\mu V/m) = (41.35\ dB\mu V) + (-25.40\ dB/m)$ , the corresponding frequency is 75.590MHz.

The worst case attitude: The EUT lay down.

#### Spurious Radiated Emissions below 30MHz and above 18G:

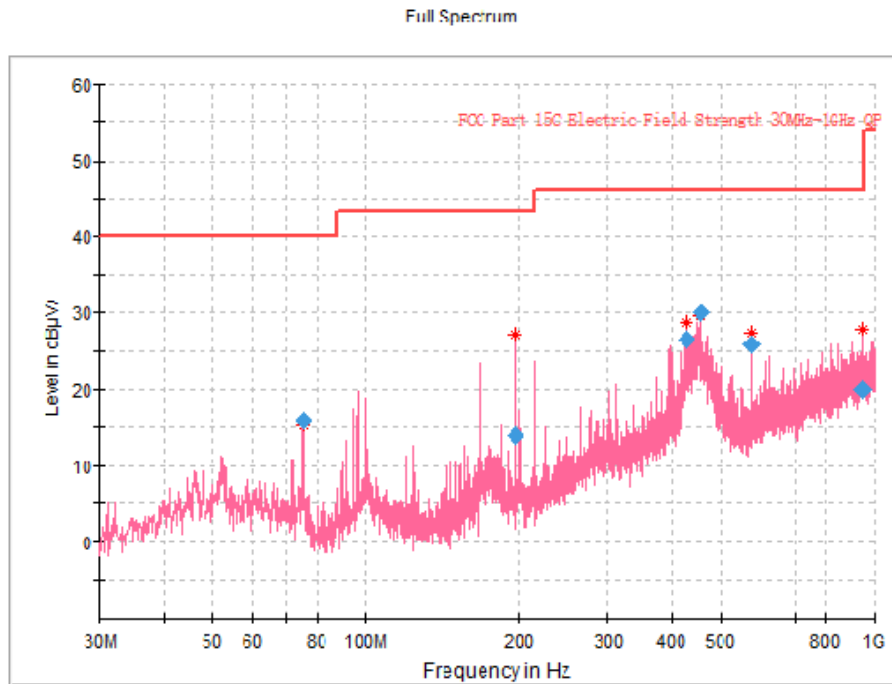
There were no emissions from 9kHz to 30MHz and above 18G found within 20dB of the limit. Thus, the test result was not reported according to § 15.31 (o).

### 【5150~5250】

#### ● 802.11a

Spurious Radiated Emissions from 30MHz to 1GHz:

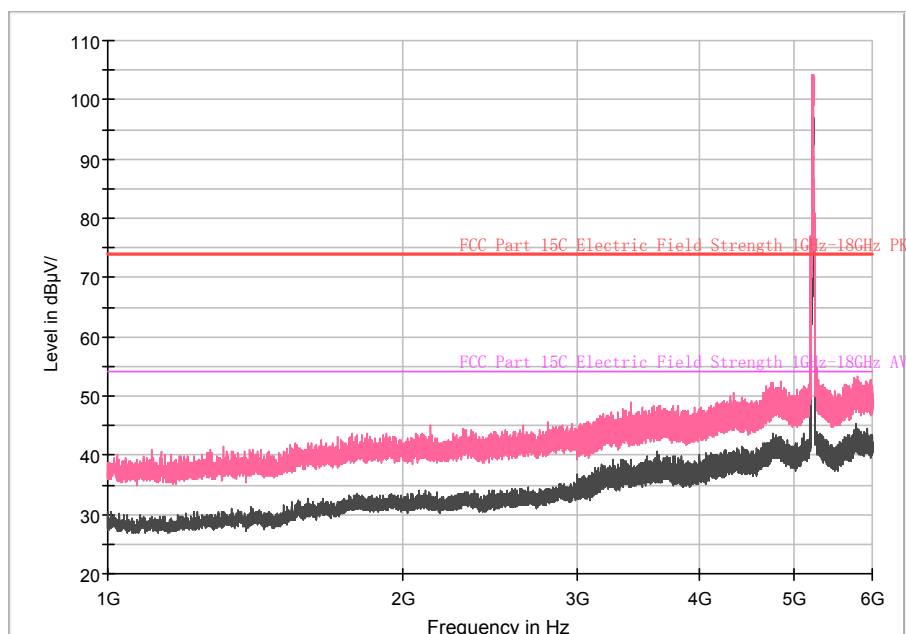
CH Middle (No.44)



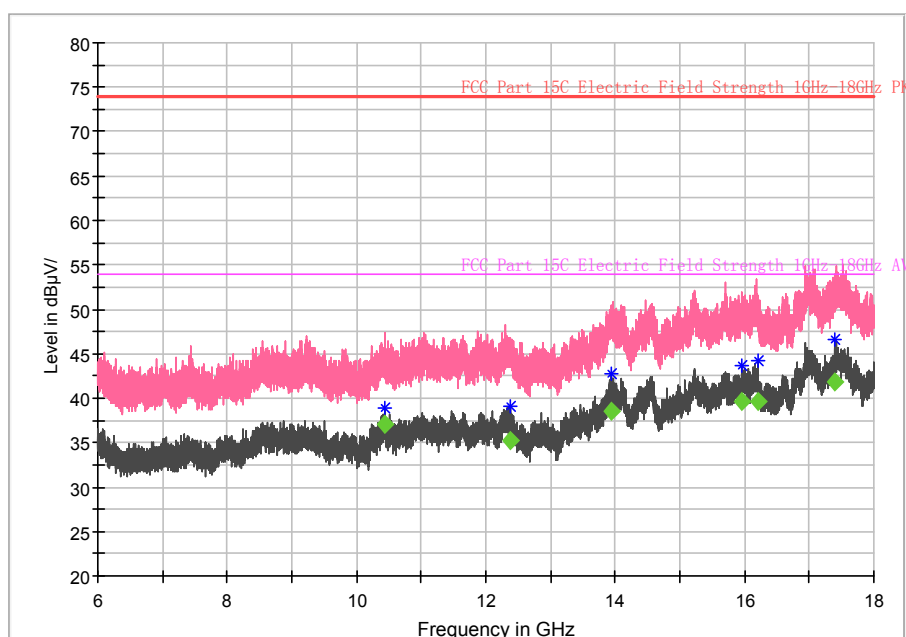
| Frequency (MHz) | Reading (dBuV) | QuasiPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|----------------|--------------------|----------------|-------------|-----------------------|----------|
| 75.590          | 41.35          | 15.95              | 40.00          | 24.05       | -25.40                | Vertical |
| 197.034         | 33.68          | 13.98              | 43.50          | 29.52       | -19.70                | Vertical |
| 426.439         | 39.43          | 26.63              | 46.00          | 19.37       | -12.80                | Vertical |
| 456.024         | 42.45          | 29.95              | 46.00          | 16.05       | -12.50                | Vertical |
| 576.013         | 35.63          | 25.93              | 46.00          | 20.07       | -9.70                 | Vertical |
| 948.105         | 22.46          | 20.06              | 46.00          | 25.94       | -2.40                 | Vertical |

# Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.44)

Full Spectrum



Full Spectrum

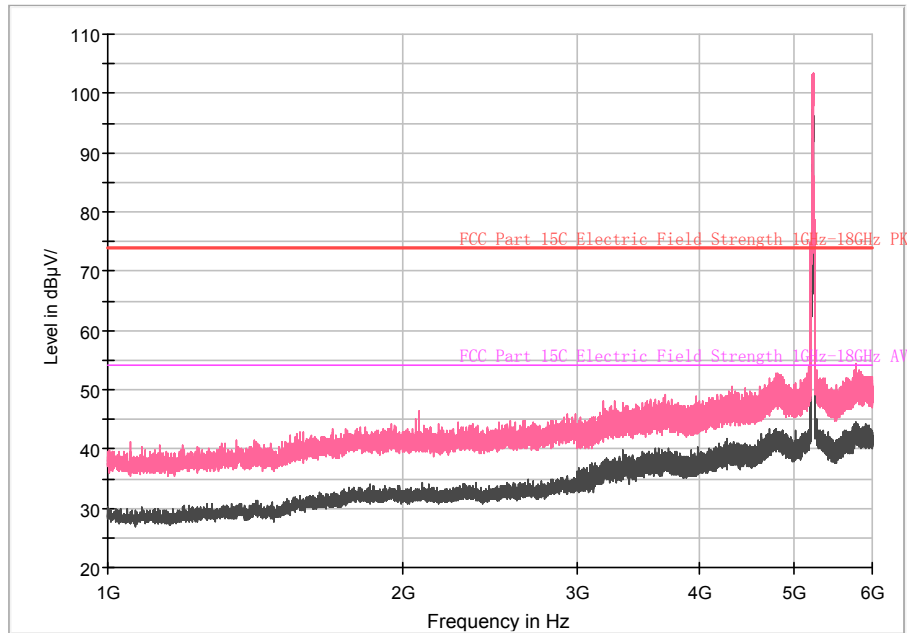


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 10442.400       | ---                    | 56.24                  | ---              | 37.14            | 54.00          | 16.86       | -19.10                | Vertical |

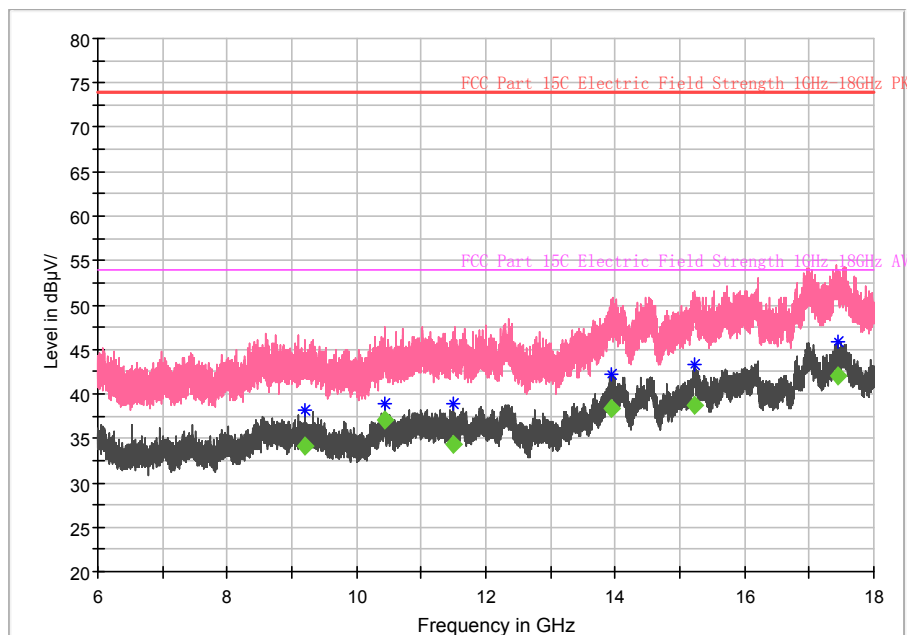
|           |     |       |     |       |       |       |        |          |
|-----------|-----|-------|-----|-------|-------|-------|--------|----------|
| 12375.600 | --- | 52.74 | --- | 35.14 | 54.00 | 18.86 | -17.60 | Vertical |
| 13942.000 | --- | 52.88 | --- | 38.48 | 54.00 | 15.52 | -14.40 | Vertical |
| 15967.600 | --- | 54.19 | --- | 39.59 | 54.00 | 14.41 | -14.60 | Vertical |
| 16198.000 | --- | 54.08 | --- | 39.58 | 54.00 | 14.42 | -14.50 | Vertical |
| 17392.000 | --- | 53.90 | --- | 41.80 | 54.00 | 12.20 | -12.10 | Vertical |

● **802.11n (HT20)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.44)**

Full Spectrum



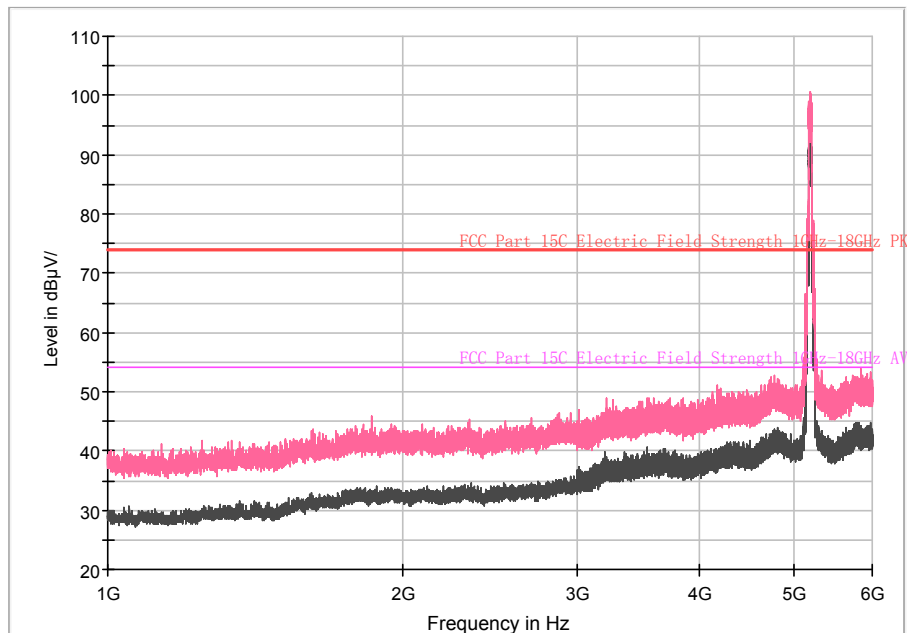
Full Spectrum



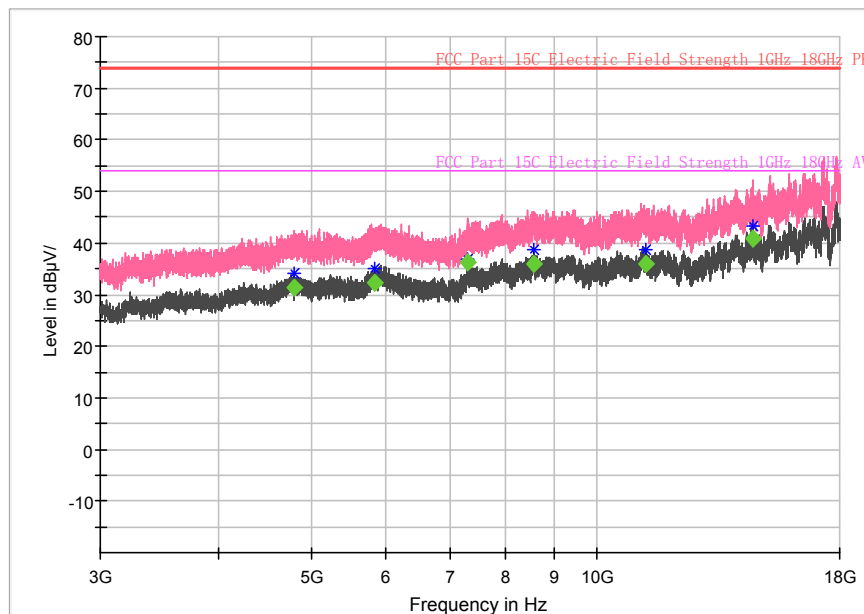
| Frequency<br>(MHz) | Reading<br>MaxPeak<br>(dBuV) | Reading<br>Average<br>(dBuV) | MaxPeak<br>(dBuV/m) | Average<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | A <sub>Rpl</sub><br>(dB) | Polarity |
|--------------------|------------------------------|------------------------------|---------------------|---------------------|-------------------|----------------|--------------------------|----------|
| 9200.800           | ---                          | 54.34                        | ---                 | 34.14               | 54.00             | 19.86          | -20.20                   | Vertical |
| 10441.600          | ---                          | 56.14                        | ---                 | 37.04               | 54.00             | 16.96          | -19.10                   | Vertical |
| 11506.000          | ---                          | 51.16                        | ---                 | 34.26               | 54.00             | 19.74          | -16.90                   | Vertical |
| 13938.000          | ---                          | 52.68                        | ---                 | 38.28               | 54.00             | 15.72          | -14.40                   | Vertical |
| 15227.200          | ---                          | 52.65                        | ---                 | 38.65               | 54.00             | 15.35          | -14.00                   | Vertical |
| 17441.600          | ---                          | 54.10                        | ---                 | 42.00               | 54.00             | 12.00          | -12.10                   | Vertical |

● 802.11n (HT40)  
Spurious Radiated Emissions from 1GHz to 18GHz:  
CH Middle (No.38)

Full Spectrum



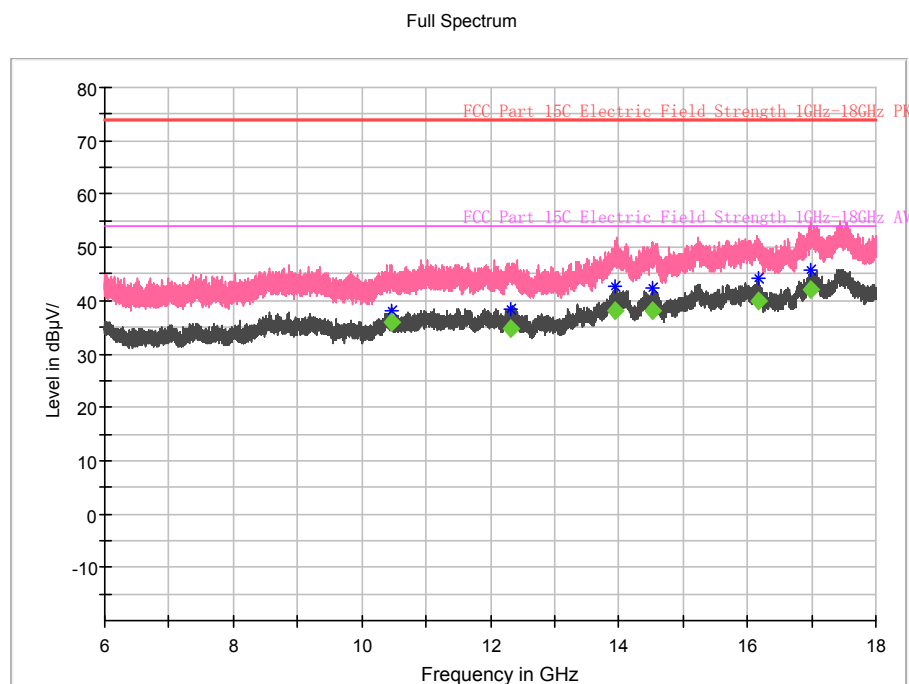
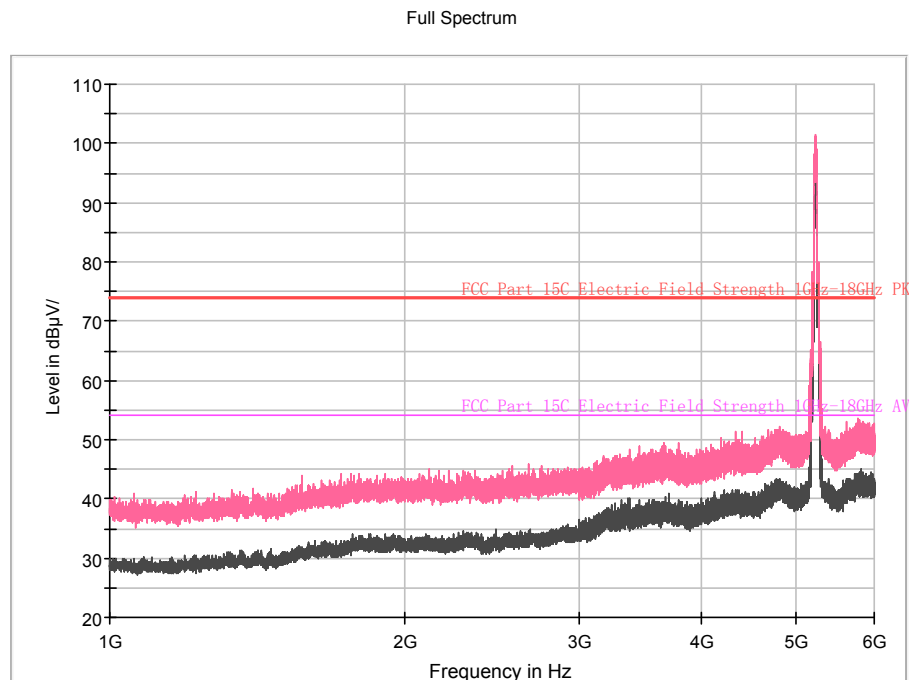
Full Spectrum



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 9200.800        | ---                    | 54.34                  | ---              | 34.14            | 54.00          | 19.86       | -20.20                | Vertical |

|           |     |       |     |       |       |       |        |          |
|-----------|-----|-------|-----|-------|-------|-------|--------|----------|
| 10441.600 | --- | 56.14 | --- | 37.04 | 54.00 | 16.96 | -19.10 | Vertical |
| 11506.000 | --- | 51.16 | --- | 34.26 | 54.00 | 19.74 | -16.90 | Vertical |
| 13938.000 | --- | 52.68 | --- | 38.28 | 54.00 | 15.72 | -14.40 | Vertical |
| 15227.200 | --- | 52.65 | --- | 38.65 | 54.00 | 15.35 | -14.00 | Vertical |
| 17441.600 | --- | 54.10 | --- | 42.00 | 54.00 | 12.00 | -12.10 | Vertical |

● **802.11n (HT40)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.46)**

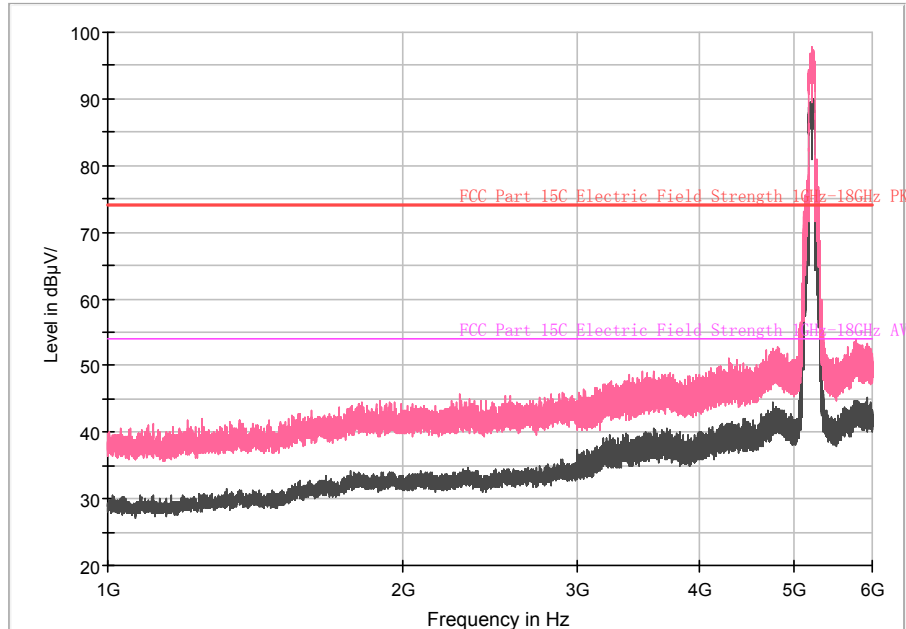


| Frequency<br>(MHz) | Reading<br>MaxPeak<br>(dBuV) | Reading<br>Average<br>(dBuV) | MaxPeak<br>(dBuV/m) | Average<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | A <sub>Rpl</sub><br>(dB) | Polarity |
|--------------------|------------------------------|------------------------------|---------------------|---------------------|-------------------|----------------|--------------------------|----------|
| 10456.000          | ---                          | 55.10                        | ---                 | 36.00               | 54.00             | 18.00          | -19.10                   | Vertical |
| 12321.200          | ---                          | 52.11                        | ---                 | 34.61               | 54.00             | 19.39          | -17.50                   | Vertical |
| 13951.600          | ---                          | 52.58                        | ---                 | 38.18               | 54.00             | 15.82          | -14.40                   | Vertical |
| 14532.400          | ---                          | 52.23                        | ---                 | 38.23               | 54.00             | 15.77          | -14.00                   | Vertical |
| 16171.200          | ---                          | 54.50                        | ---                 | 39.90               | 54.00             | 14.10          | -14.60                   | Vertical |
| 16988.000          | ---                          | 54.77                        | ---                 | 41.97               | 54.00             | 12.03          | -12.80                   | Vertical |

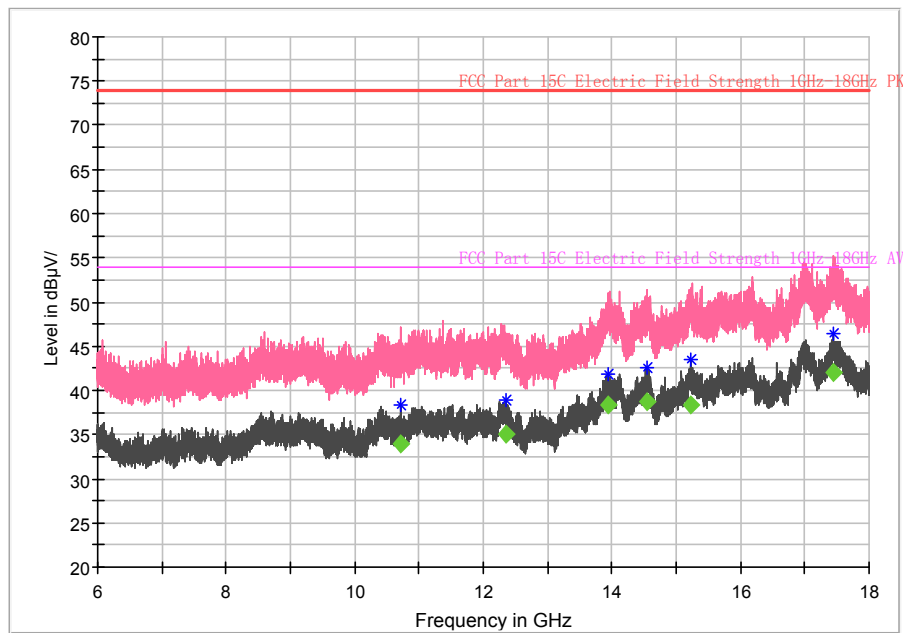
● 802.11ac (VHT80)

Spurious Radiated Emissions from 1GHz to 18GHz:  
CH Middle (No.42)

Full Spectrum



Full Spectrum



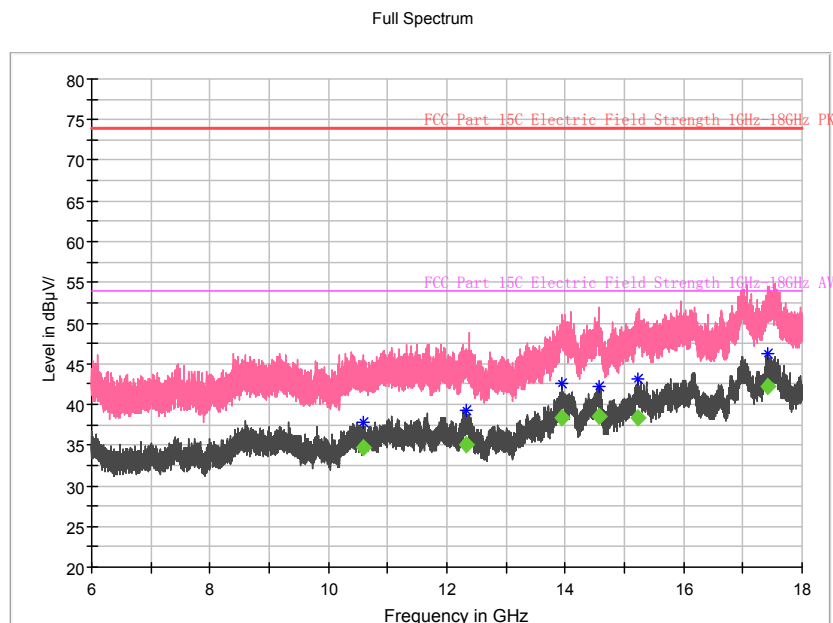
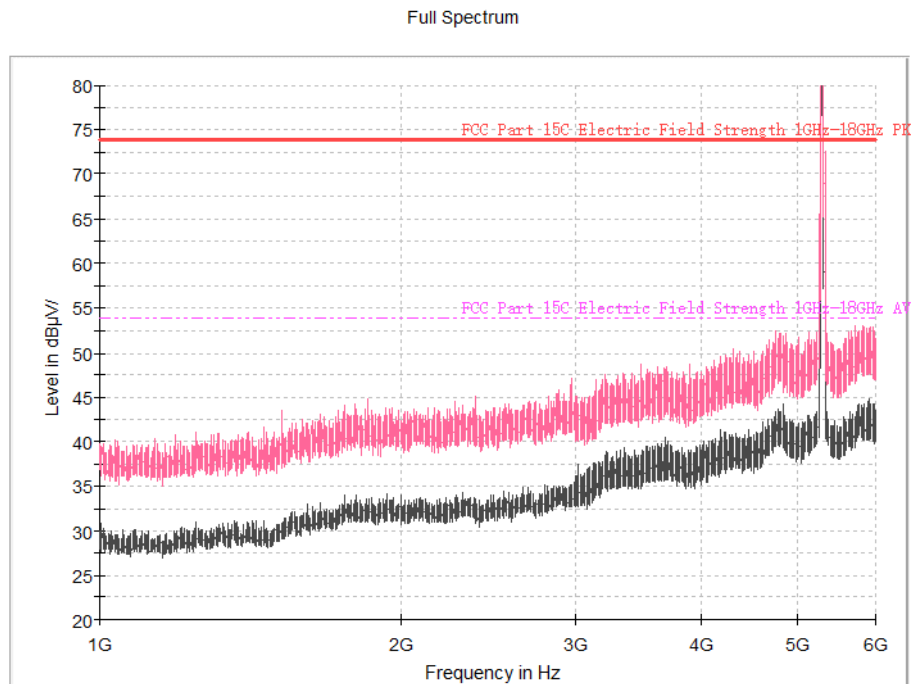
| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 10703.600       | ---                    | 52.62                  | ---              | 33.92            | 54.00          | 20.08       | -18.70                | Vertical |
| 12363.600       | ---                    | 52.62                  | ---              | 35.02            | 54.00          | 18.98       | -17.60                | Vertical |

|           |     |       |     |       |       |       |        |          |
|-----------|-----|-------|-----|-------|-------|-------|--------|----------|
| 13941.200 | --- | 52.76 | --- | 38.36 | 54.00 | 15.64 | -14.40 | Vertical |
| 14548.800 | --- | 52.79 | --- | 38.79 | 54.00 | 15.21 | -14.00 | Vertical |
| 15231.600 | --- | 52.43 | --- | 38.43 | 54.00 | 15.57 | -14.00 | Vertical |
| 17443.200 | --- | 54.15 | --- | 42.05 | 54.00 | 11.95 | -12.10 | Vertical |

## 【5250~5350】

### ● 802.11a

### Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.60)

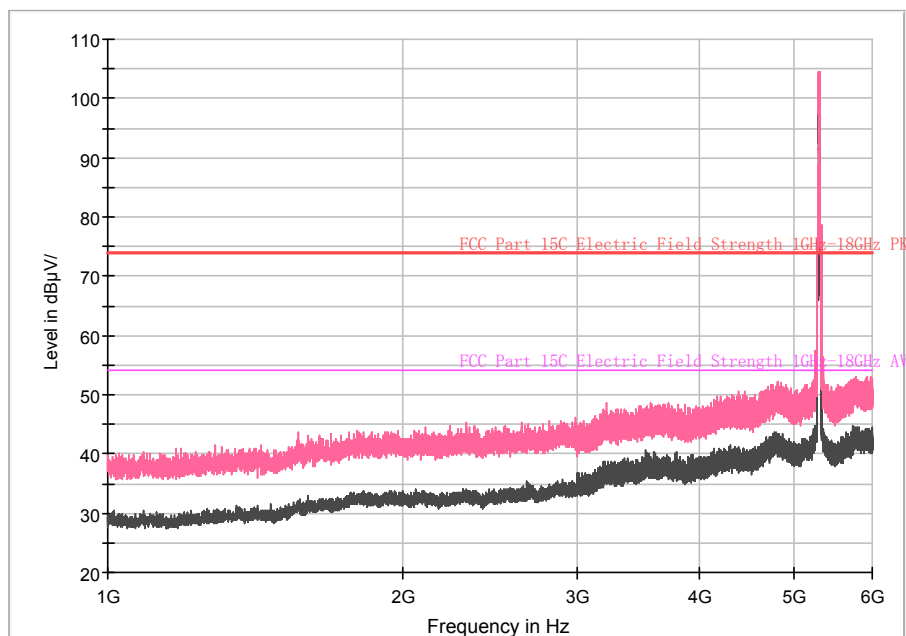


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | ARpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 10599.200       | ---                    | 53.60                  | ---              | 34.70            | 54.00          | 19.30       | -18.90    | Vertical |
| 12334.800       | ---                    | 52.56                  | ---              | 35.06            | 54.00          | 18.94       | -17.50    | Vertical |
| 13945.200       | ---                    | 52.82                  | ---              | 38.42            | 54.00          | 15.58       | -14.40    | Vertical |
| 14574.000       | ---                    | 52.55                  | ---              | 38.55            | 54.00          | 15.45       | -14.00    | Vertical |
| 15236.400       | ---                    | 52.32                  | ---              | 38.32            | 54.00          | 15.68       | -14.00    | Vertical |
| 17432.000       | ---                    | 54.23                  | ---              | 42.13            | 54.00          | 11.87       | -12.10    | Vertical |

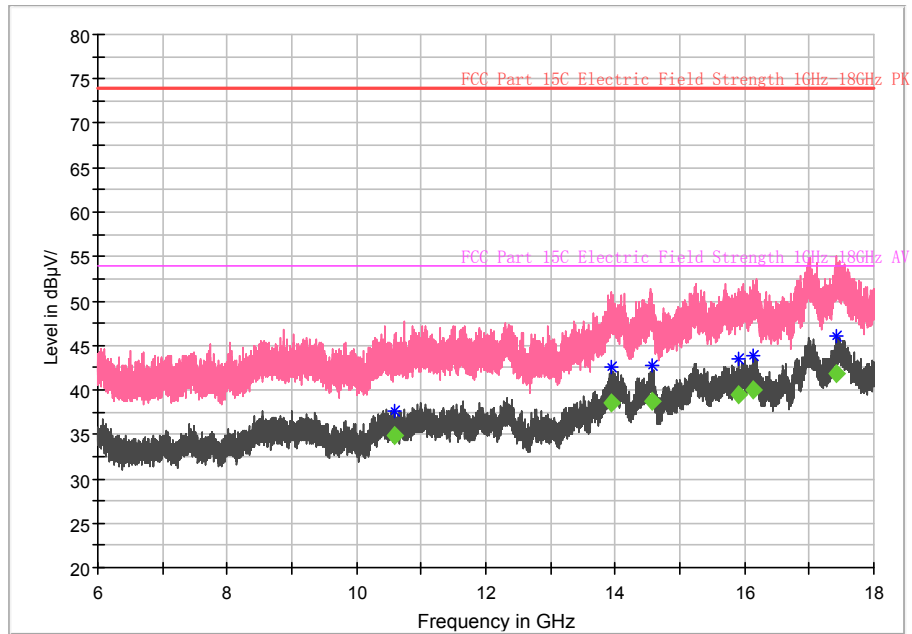
# ● 802.11n (HT20)

## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.60)

Full Spectrum



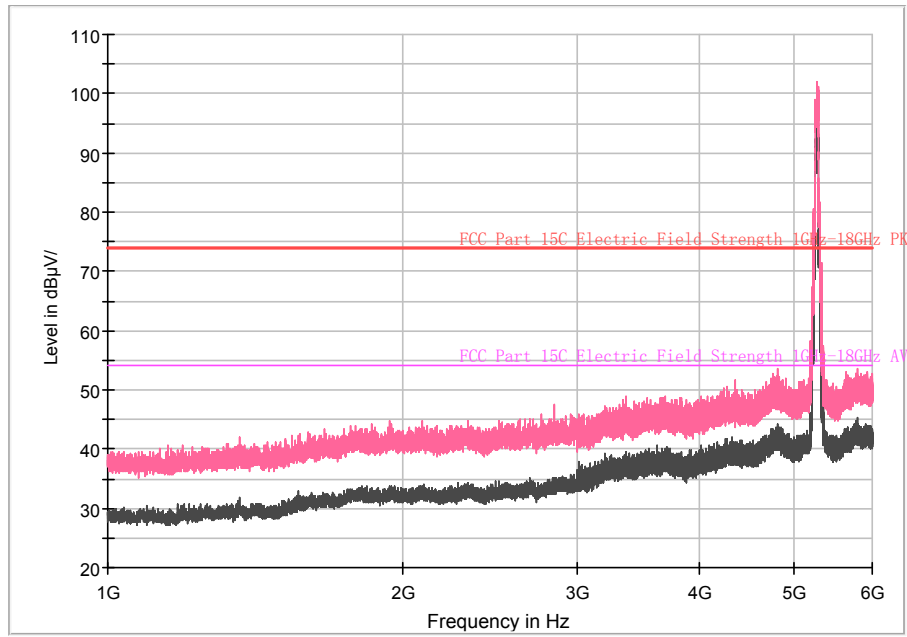
Full Spectrum



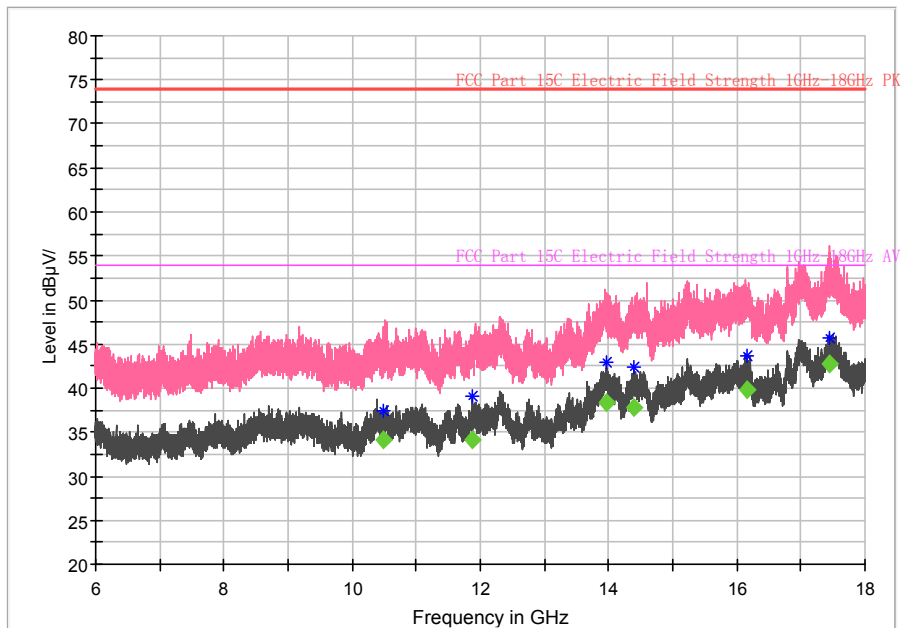
| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 10595.600       | ---                    | 53.76                  | ---              | 34.86            | 54.00          | 19.14       | -18.90                | Vertical |
| 13942.800       | ---                    | 52.88                  | ---              | 38.48            | 54.00          | 15.52       | -14.40                | Vertical |
| 14570.400       | ---                    | 52.66                  | ---              | 38.66            | 54.00          | 15.34       | -14.00                | Vertical |
| 15905.600       | ---                    | 54.04                  | ---              | 39.54            | 54.00          | 14.46       | -14.50                | Vertical |
| 16146.800       | ---                    | 54.75                  | ---              | 40.05            | 54.00          | 13.95       | -14.70                | Vertical |
| 17418.000       | ---                    | 53.97                  | ---              | 41.87            | 54.00          | 12.13       | -12.10                | Vertical |

● **802.11n (HT40)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.54)**

Full Spectrum

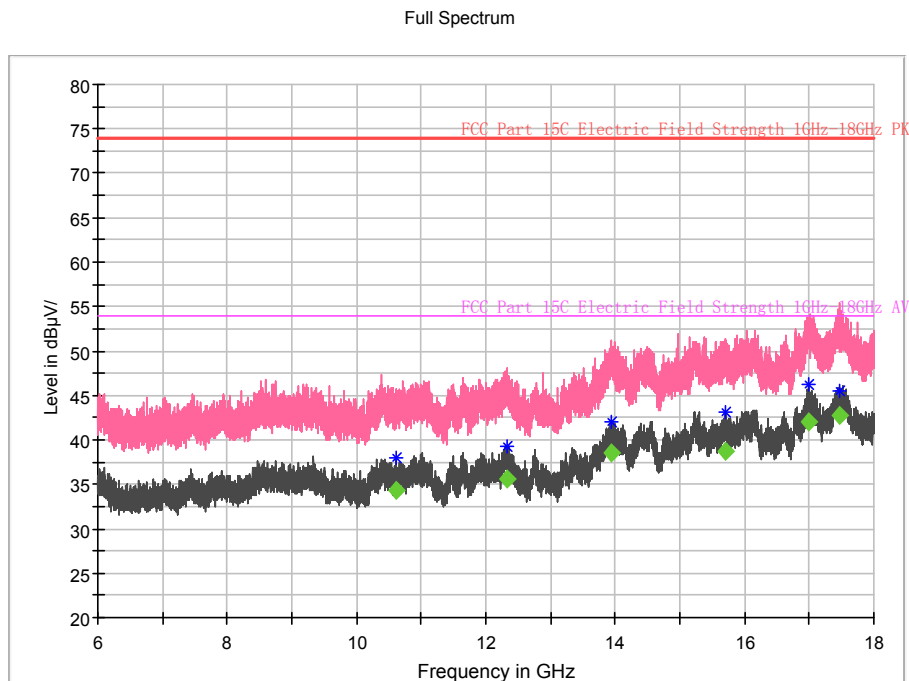
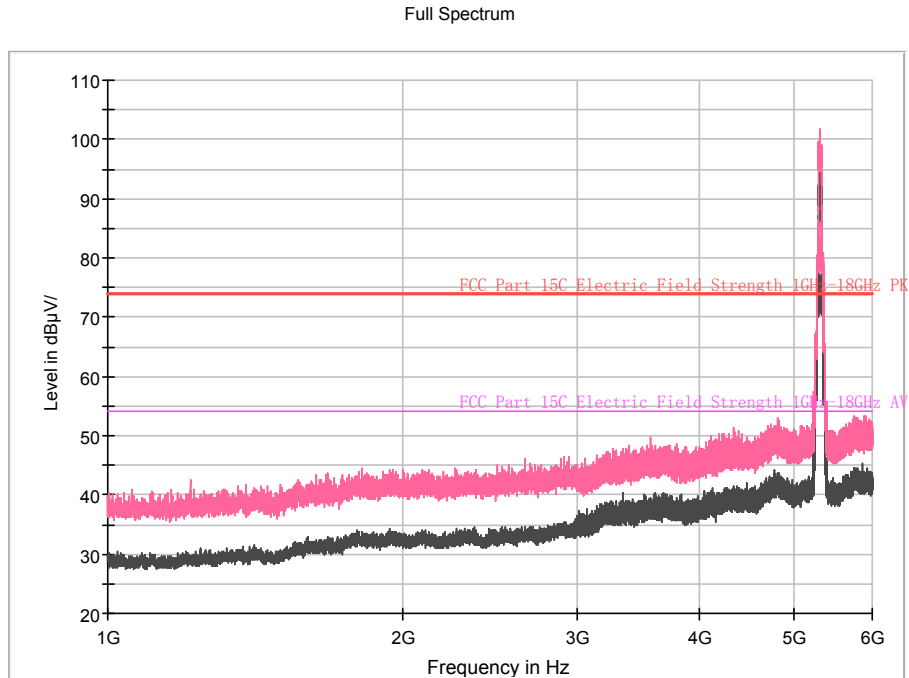


Full Spectrum



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rp1</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 10475.600       | ---                    | 53.24                  | ---              | 34.14            | 54.00          | 19.86       | -19.10                | Vertical |
| 11884.400       | ---                    | 51.12                  | ---              | 34.12            | 54.00          | 19.88       | -17.00                | Vertical |
| 13962.000       | ---                    | 52.72                  | ---              | 38.32            | 54.00          | 15.68       | -14.40                | Vertical |
| 14400.000       | ---                    | 51.88                  | ---              | 37.78            | 54.00          | 16.22       | -14.10                | Vertical |
| 16159.200       | ---                    | 54.49                  | ---              | 39.79            | 54.00          | 14.21       | -14.70                | Vertical |
| 17453.200       | ---                    | 54.78                  | ---              | 42.68            | 54.00          | 11.32       | -12.10                | Vertical |

● **802.11n (HT40)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.62)**

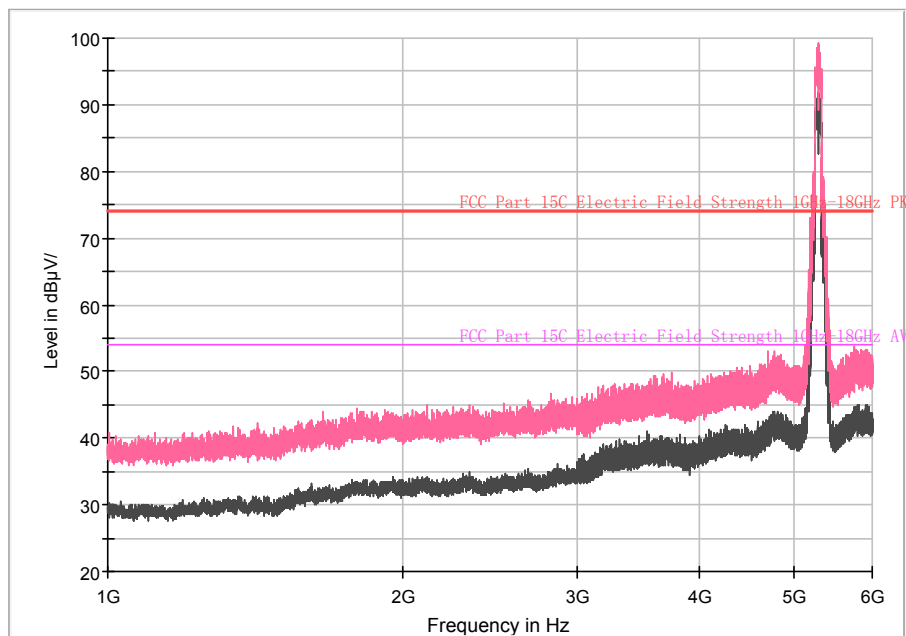


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 10617.200       | ---                    | 53.29                  | ---              | 34.39            | 54.00          | 19.61       | -18.90                | Vertical |
| 12315.200       | ---                    | 53.15                  | ---              | 35.65            | 54.00          | 18.35       | -17.50                | Vertical |
| 13942.800       | ---                    | 52.94                  | ---              | 38.54            | 54.00          | 15.46       | -14.40                | Vertical |
| 15703.200       | ---                    | 53.05                  | ---              | 38.75            | 54.00          | 15.25       | -14.30                | Vertical |
| 16986.000       | ---                    | 54.90                  | ---              | 42.10            | 54.00          | 11.90       | -12.80                | Vertical |
| 17458.400       | ---                    | 54.81                  | ---              | 42.71            | 54.00          | 11.29       | -12.10                | Vertical |

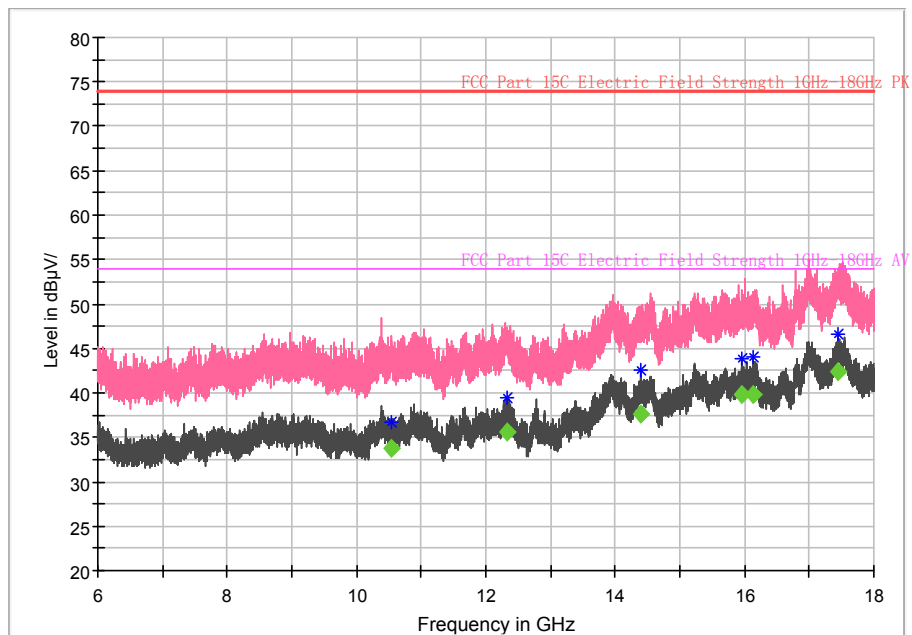
# ● 802.11ac (VHT80)

## Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.58)

Full Spectrum



Full Spectrum



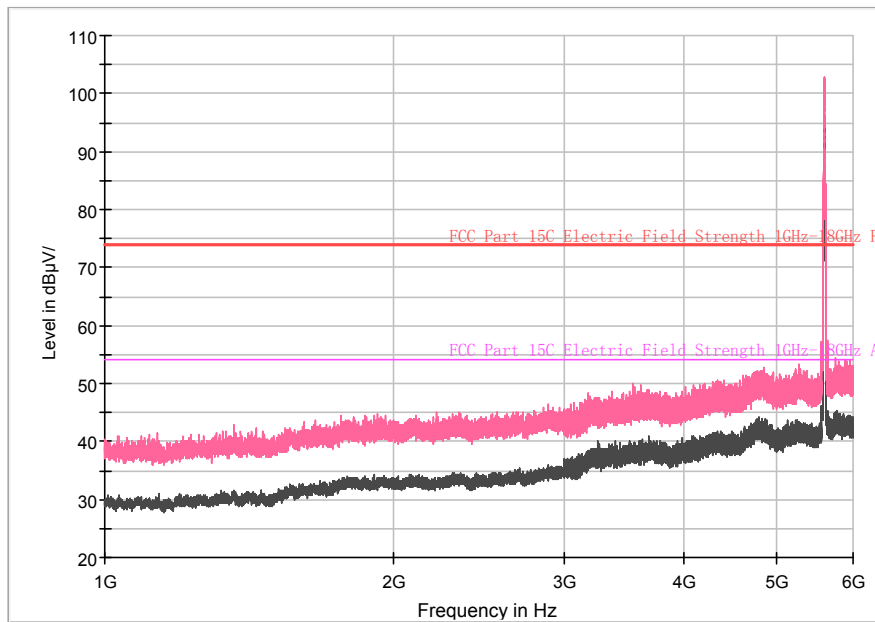
| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Arpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 10548.000       | ---                    | 52.68                  | ---              | 33.68            | 54.00          | 20.32       | -19.00    | Vertical |
| 12318.400       | ---                    | 53.09                  | ---              | 35.59            | 54.00          | 18.41       | -17.50    | Vertical |
| 14384.000       | ---                    | 51.76                  | ---              | 37.66            | 54.00          | 16.34       | -14.10    | Vertical |
| 15955.600       | ---                    | 54.34                  | ---              | 39.74            | 54.00          | 14.26       | -14.60    | Vertical |
| 16130.000       | ---                    | 54.60                  | ---              | 39.80            | 54.00          | 14.20       | -14.80    | Vertical |
| 17448.000       | ---                    | 54.47                  | ---              | 42.37            | 54.00          | 11.63       | -12.10    | Vertical |

## 【5470~5725】

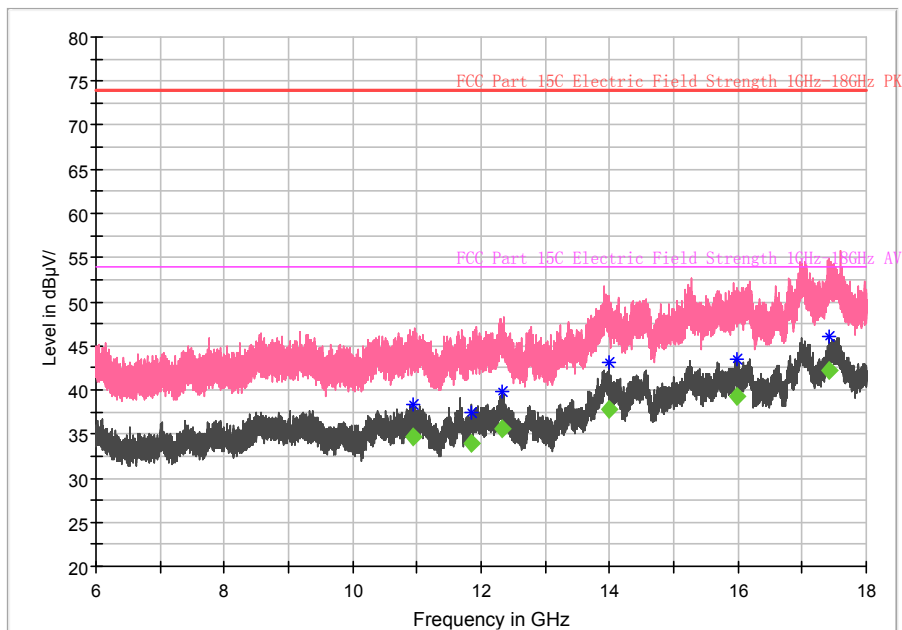
### ● 802.11a

Spurious Radiated Emissions from 1GHz to 18GHz:  
CH Middle (No.120)

Full Spectrum



Full Spectrum



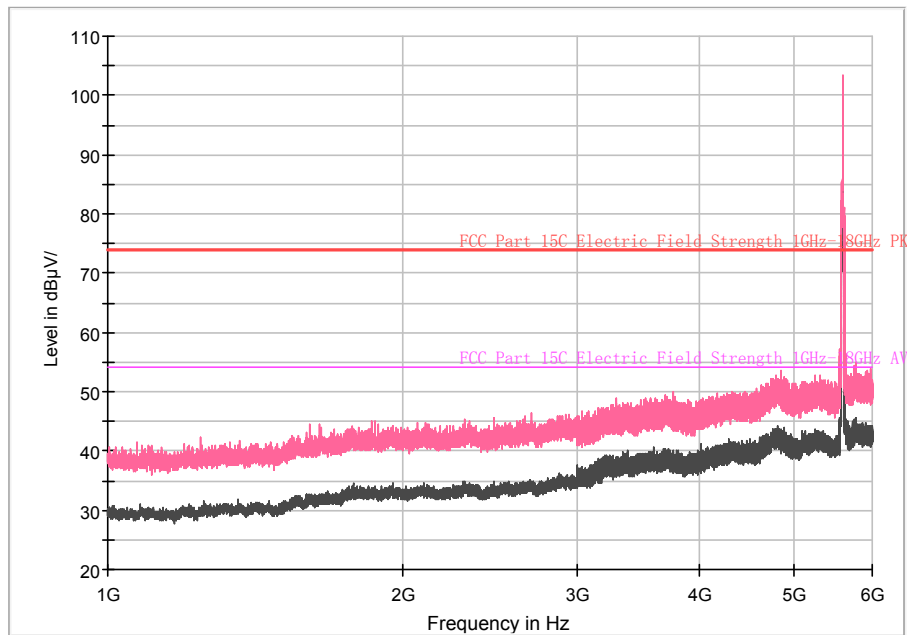
| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 10934.400       | ---                    | 53.14                  | ---              | 34.74            | 54.00          | 19.26       | -18.40                | Vertical |

|           |     |       |     |       |       |       |        |          |
|-----------|-----|-------|-----|-------|-------|-------|--------|----------|
| 11857.600 | --- | 50.95 | --- | 33.95 | 54.00 | 20.05 | -17.00 | Vertical |
| 12325.600 | --- | 53.11 | --- | 35.61 | 54.00 | 18.39 | -17.50 | Vertical |
| 13987.600 | --- | 52.28 | --- | 37.88 | 54.00 | 16.12 | -14.40 | Vertical |
| 15971.600 | --- | 53.95 | --- | 39.35 | 54.00 | 14.65 | -14.60 | Vertical |
| 17428.800 | --- | 54.29 | --- | 42.19 | 54.00 | 11.81 | -12.10 | Vertical |

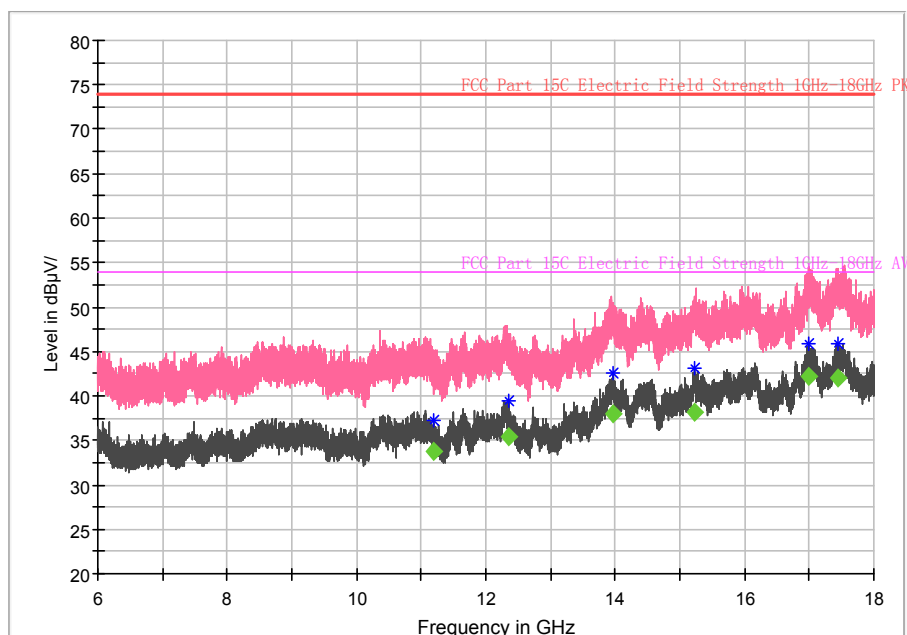
## ● 802.11n (HT20)

### Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.120)

Full Spectrum



Full Spectrum

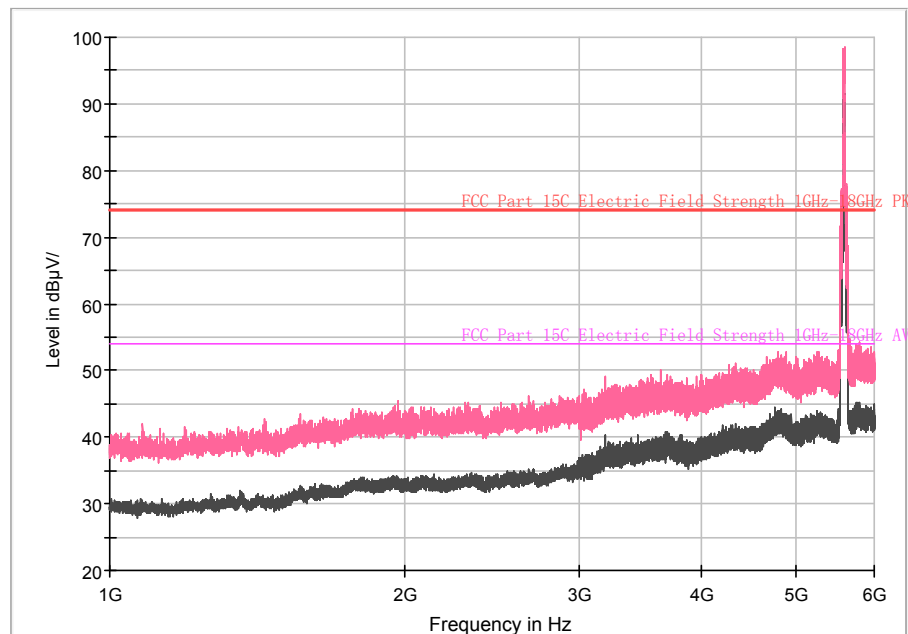


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | ARpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 11202.800       | ---                    | 51.30                  | ---              | 33.70            | 54.00          | 20.30       | -17.60    | Vertical |
| 12347.600       | ---                    | 52.86                  | ---              | 35.36            | 54.00          | 18.64       | -17.50    | Vertical |
| 13972.400       | ---                    | 52.45                  | ---              | 38.05            | 54.00          | 15.95       | -14.40    | Vertical |
| 15223.200       | ---                    | 52.24                  | ---              | 38.24            | 54.00          | 15.76       | -14.00    | Vertical |
| 16985.200       | ---                    | 54.94                  | ---              | 42.14            | 54.00          | 11.86       | -12.80    | Vertical |
| 17441.200       | ---                    | 54.15                  | ---              | 42.05            | 54.00          | 11.95       | -12.10    | Vertical |

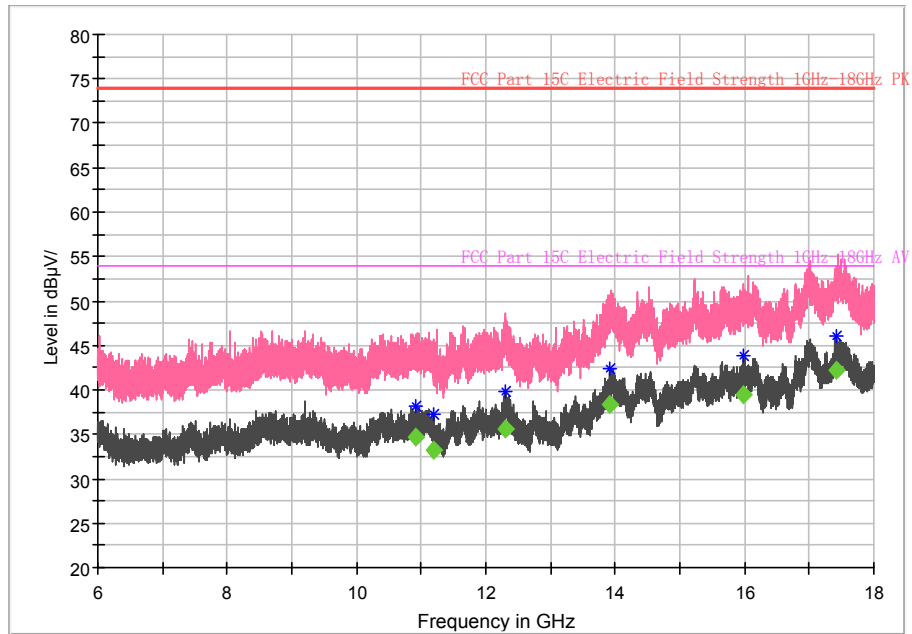
## ● 802.11n (HT40)

### Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.118)

Full Spectrum



Full Spectrum

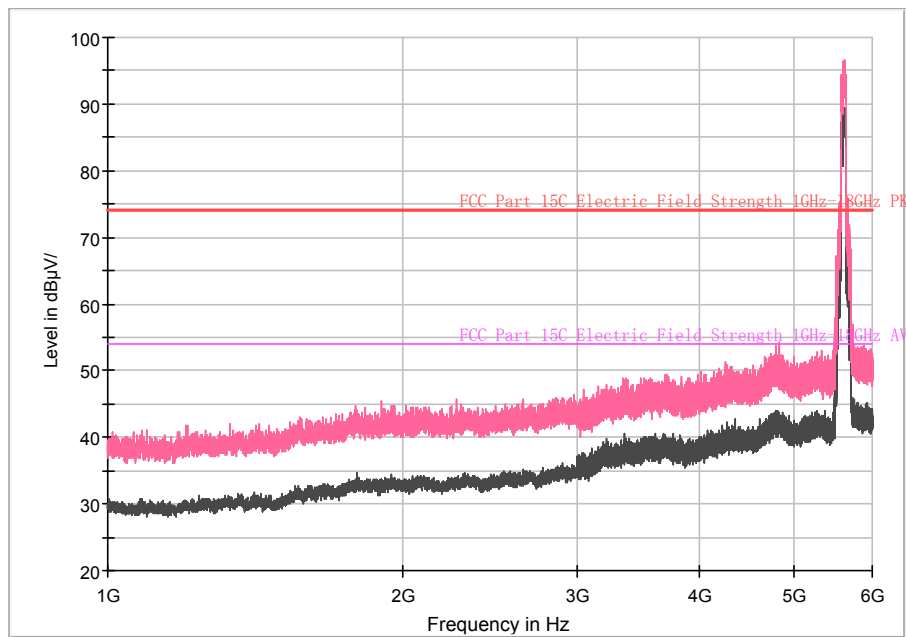


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | ARpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 10907.200       | ---                    | 53.16                  | ---              | 34.76            | 54.00          | 19.24       | -18.40    | Vertical |
| 11185.600       | ---                    | 50.92                  | ---              | 33.22            | 54.00          | 20.78       | -17.70    | Vertical |
| 12314.800       | ---                    | 53.11                  | ---              | 35.61            | 54.00          | 18.39       | -17.50    | Vertical |
| 13928.000       | ---                    | 52.71                  | ---              | 38.31            | 54.00          | 15.69       | -14.40    | Vertical |
| 15992.000       | ---                    | 54.08                  | ---              | 39.48            | 54.00          | 14.52       | -14.60    | Vertical |
| 17427.200       | ---                    | 54.28                  | ---              | 42.18            | 54.00          | 11.82       | -12.10    | Vertical |

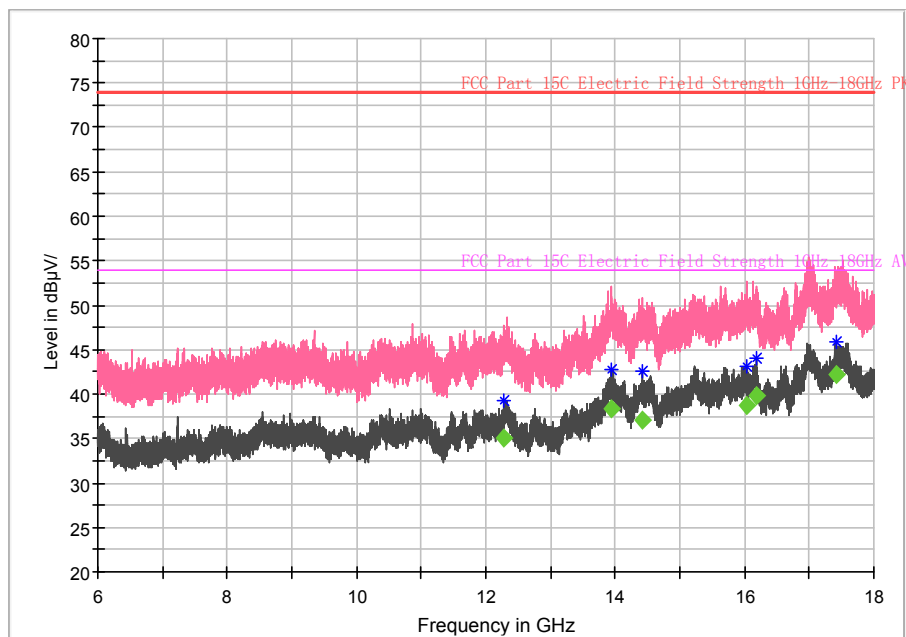
### ● 802.11ac (VHT80)

Spurious Radiated Emissions from 1GHz to 18GHz:  
CH Middle (No.122)

Full Spectrum



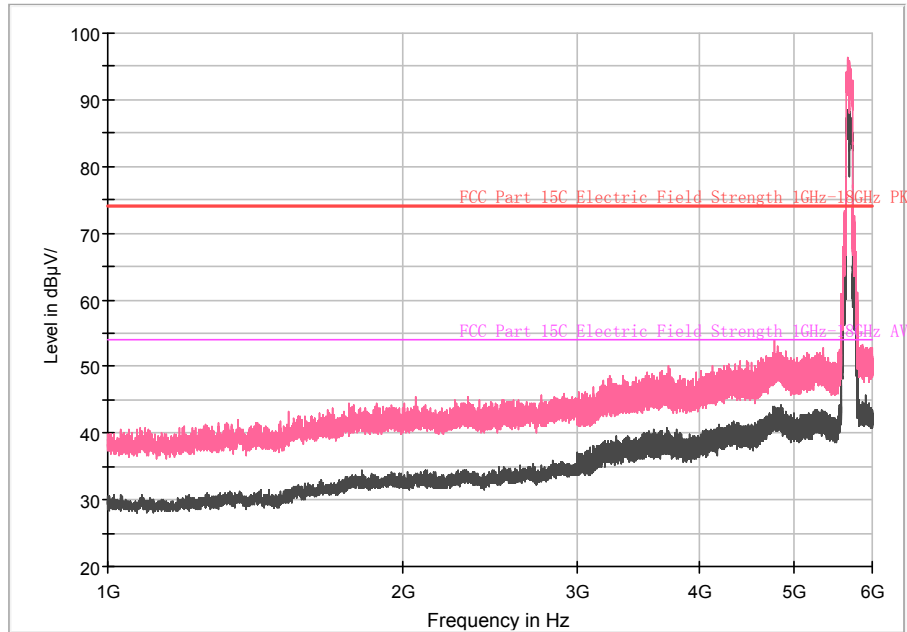
Full Spectrum



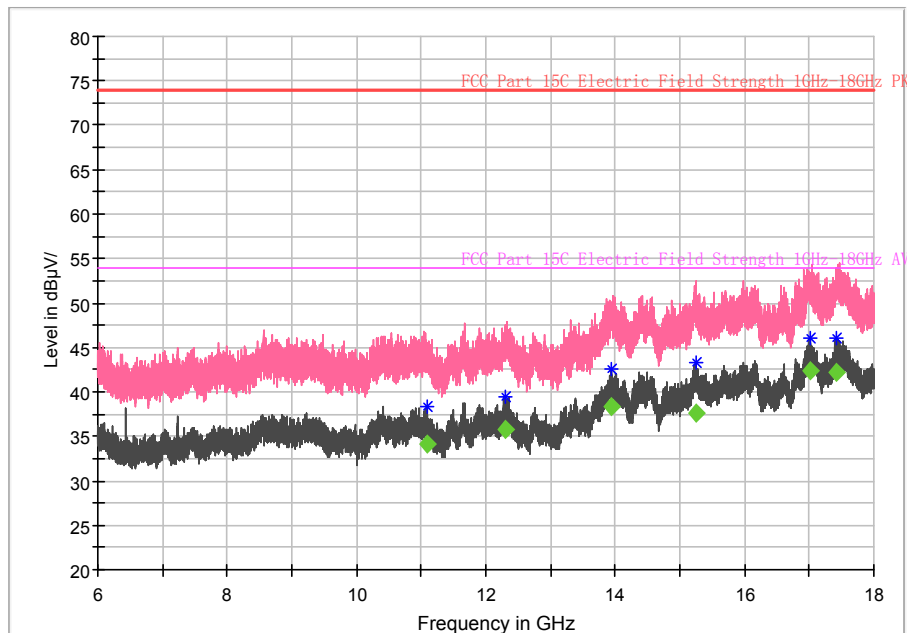
| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 12281.200       | ---                    | 52.56                  | ---              | 35.06            | 54.00          | 18.94       | -17.50                | Vertical |
| 13941.600       | ---                    | 52.78                  | ---              | 38.38            | 54.00          | 15.62       | -14.40                | Vertical |
| 14424.400       | ---                    | 51.19                  | ---              | 37.09            | 54.00          | 16.91       | -14.10                | Vertical |
| 16026.400       | ---                    | 53.33                  | ---              | 38.73            | 54.00          | 15.27       | -14.60                | Vertical |
| 16172.800       | ---                    | 54.49                  | ---              | 39.89            | 54.00          | 14.11       | -14.60                | Vertical |
| 17425.600       | ---                    | 54.34                  | ---              | 42.24            | 54.00          | 11.76       | -12.10                | Vertical |

● **802.11ac (VHT80)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.138)**

Full Spectrum



Full Spectrum



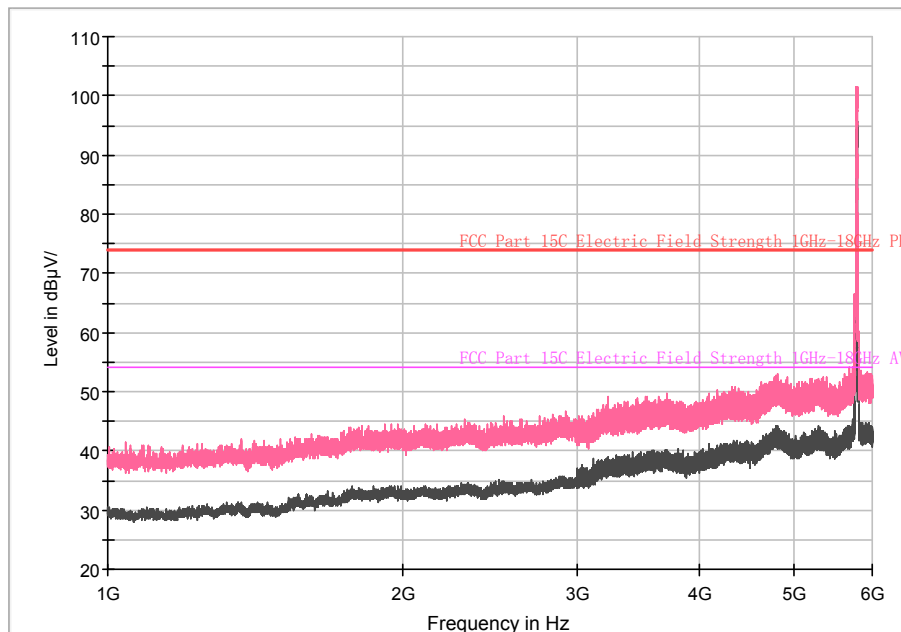
| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | ARpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 11098.400       | ---                    | 52.12                  | ---              | 34.12            | 54.00          | 19.88       | -18.00    | Vertical |
| 12312.800       | ---                    | 53.22                  | ---              | 35.72            | 54.00          | 18.28       | -17.50    | Vertical |
| 13942.000       | ---                    | 52.82                  | ---              | 38.42            | 54.00          | 15.58       | -14.40    | Vertical |
| 15256.400       | ---                    | 51.69                  | ---              | 37.59            | 54.00          | 16.41       | -14.10    | Vertical |
| 17022.000       | ---                    | 55.15                  | ---              | 42.45            | 54.00          | 11.55       | -12.70    | Vertical |
| 17428.400       | ---                    | 54.29                  | ---              | 42.19            | 54.00          | 11.81       | -12.10    | Vertical |

## 【5725~5850】

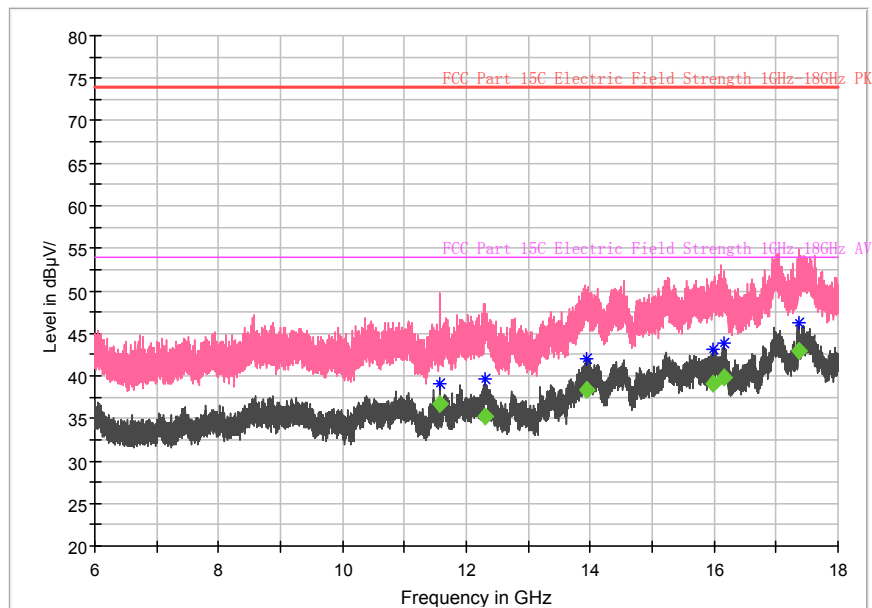
### ● 802.11a

### Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.157)

Full Spectrum



Full Spectrum

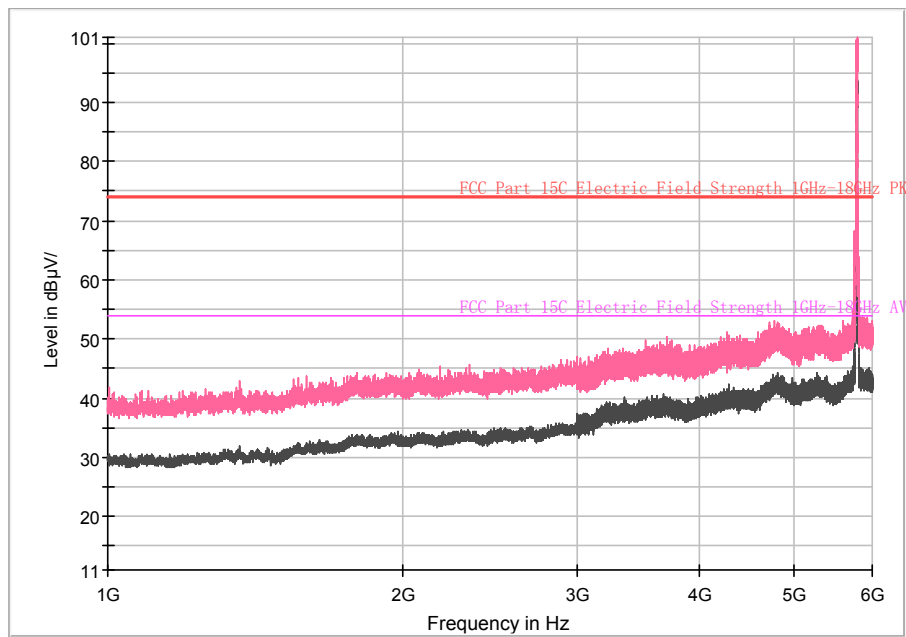


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Arpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 11570.800       | ---                    | 53.58                  | ---              | 36.68            | 54.00          | 17.32       | -16.90    | Vertical |
| 12306.800       | ---                    | 52.76                  | ---              | 35.26            | 54.00          | 18.74       | -17.50    | Vertical |
| 13946.000       | ---                    | 52.84                  | ---              | 38.44            | 54.00          | 15.56       | -14.40    | Vertical |
| 15972.000       | ---                    | 53.68                  | ---              | 39.08            | 54.00          | 14.92       | -14.60    | Vertical |
| 16149.600       | ---                    | 54.51                  | ---              | 39.81            | 54.00          | 14.19       | -14.70    | Vertical |
| 17362.800       | ---                    | 54.95                  | ---              | 42.85            | 54.00          | 11.15       | -12.10    | Vertical |

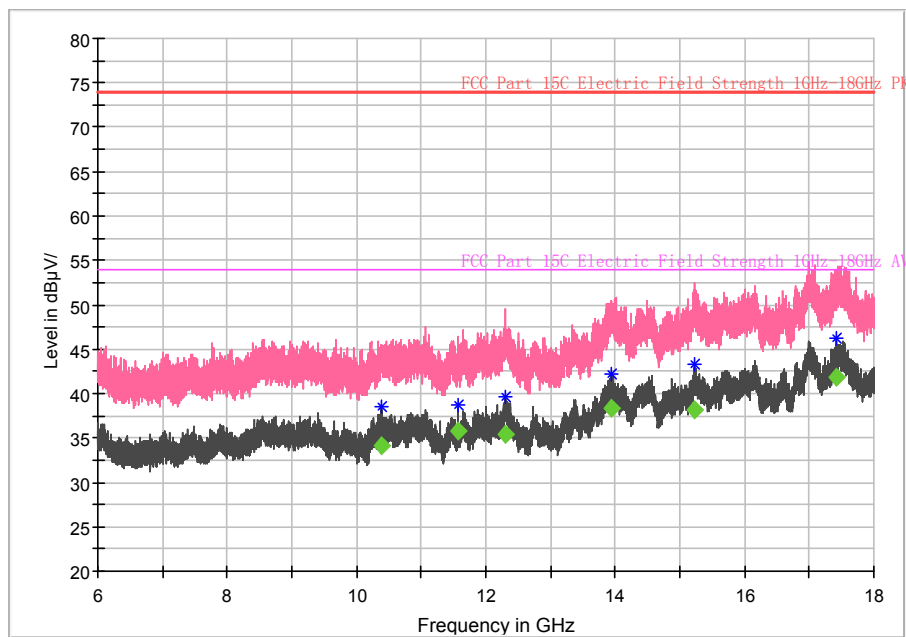
## ● 802.11n (HT20)

Spurious Radiated Emissions from 1GHz to 18GHz:  
CH Middle (No.157)

Full Spectrum



Full Spectrum

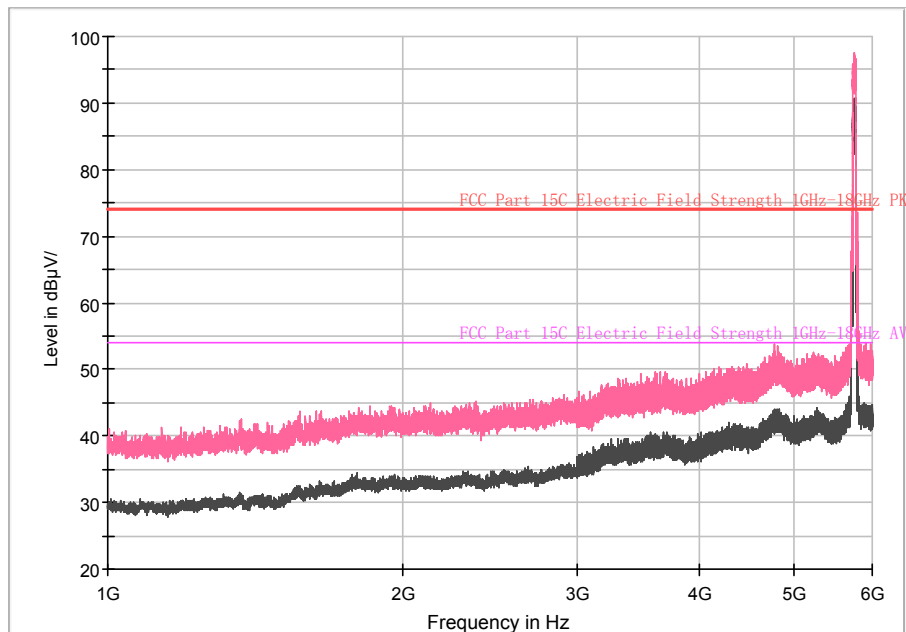


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | ARpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 10375.200       | ---                    | 53.36                  | ---              | 34.06            | 54.00          | 19.94       | -19.30    | Vertical |
| 11572.400       | ---                    | 52.66                  | ---              | 35.76            | 54.00          | 18.24       | -16.90    | Vertical |

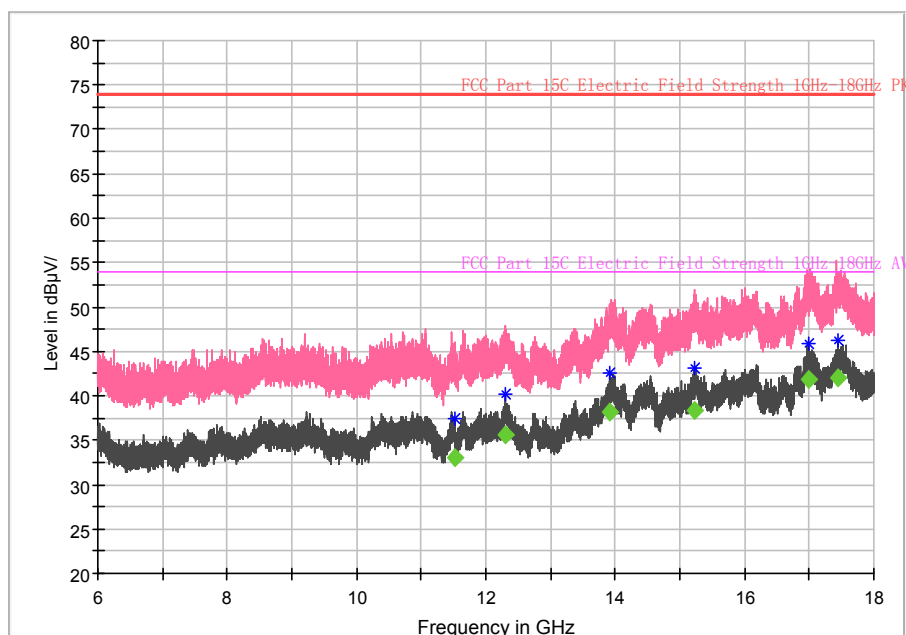
|           |     |       |     |       |       |       |        |          |
|-----------|-----|-------|-----|-------|-------|-------|--------|----------|
| 12299.600 | --- | 52.88 | --- | 35.38 | 54.00 | 18.62 | -17.50 | Vertical |
| 13944.800 | --- | 52.83 | --- | 38.43 | 54.00 | 15.57 | -14.40 | Vertical |
| 15235.200 | --- | 52.18 | --- | 38.18 | 54.00 | 15.82 | -14.00 | Vertical |
| 17431.200 | --- | 54.02 | --- | 41.92 | 54.00 | 12.08 | -12.10 | Vertical |

● **802.11n (HT40)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.151)**

Full Spectrum

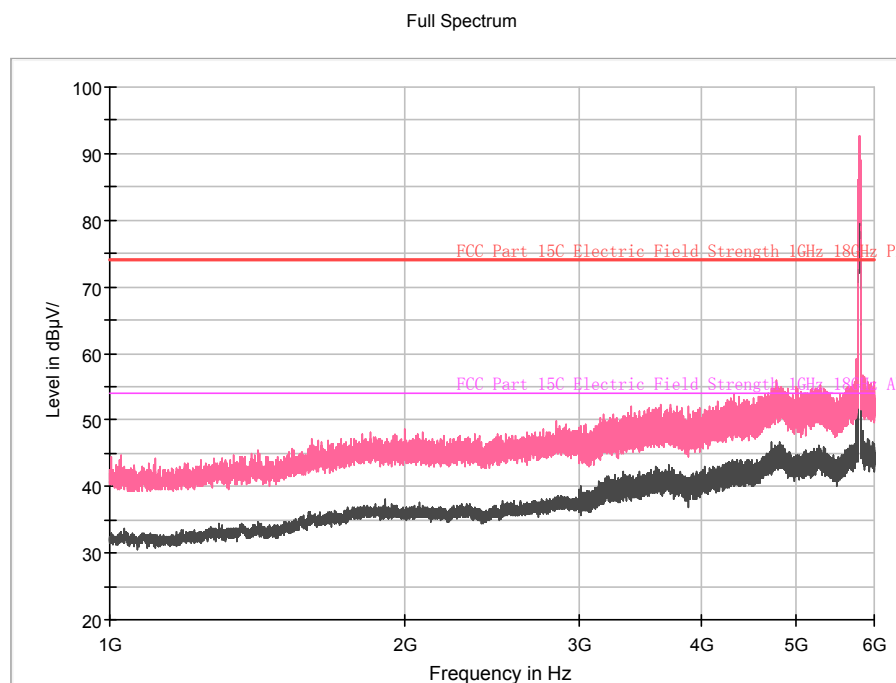


Full Spectrum

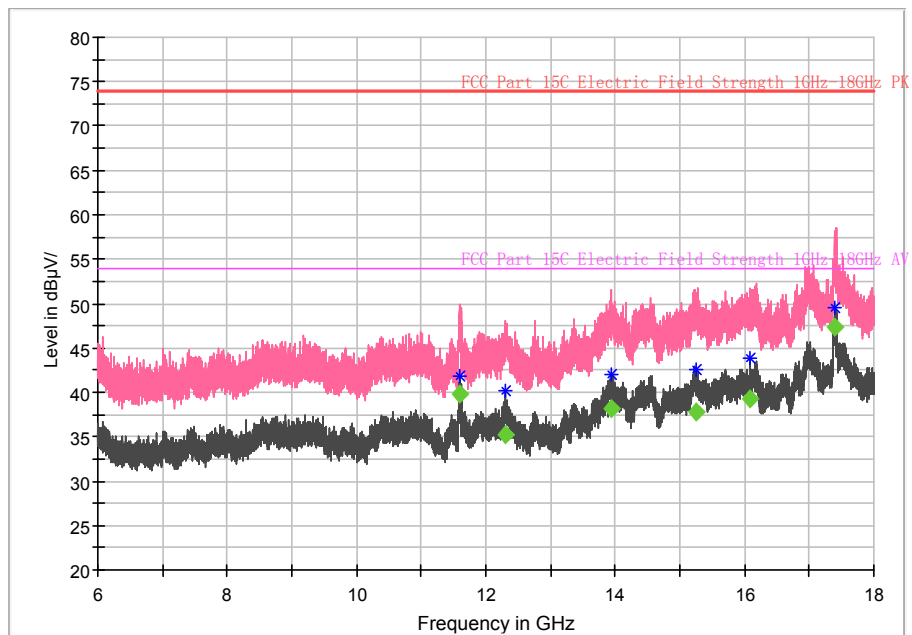


| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 4793.000        | ---                    | 48.21                  | ---              | 31.31            | 54.00          | 22.69       | -16.90                | Vertical |
| 5824.000        | ---                    | 49.93                  | ---              | 32.43            | 54.00          | 21.57       | -17.50                | Vertical |
| 7309.500        | ---                    | 50.70                  | ---              | 36.30            | 54.00          | 17.70       | -14.40                | Vertical |
| 8572.000        | ---                    | 49.82                  | ---              | 35.82            | 54.00          | 18.18       | -14.00                | Vertical |
| 11231.500       | ---                    | 48.57                  | ---              | 35.87            | 54.00          | 18.13       | -12.70                | Vertical |
| 14580.500       | ---                    | 53.10                  | ---              | 41.00            | 54.00          | 13.00       | -12.10                | Vertical |

● **802.11n (HT40)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.159)**



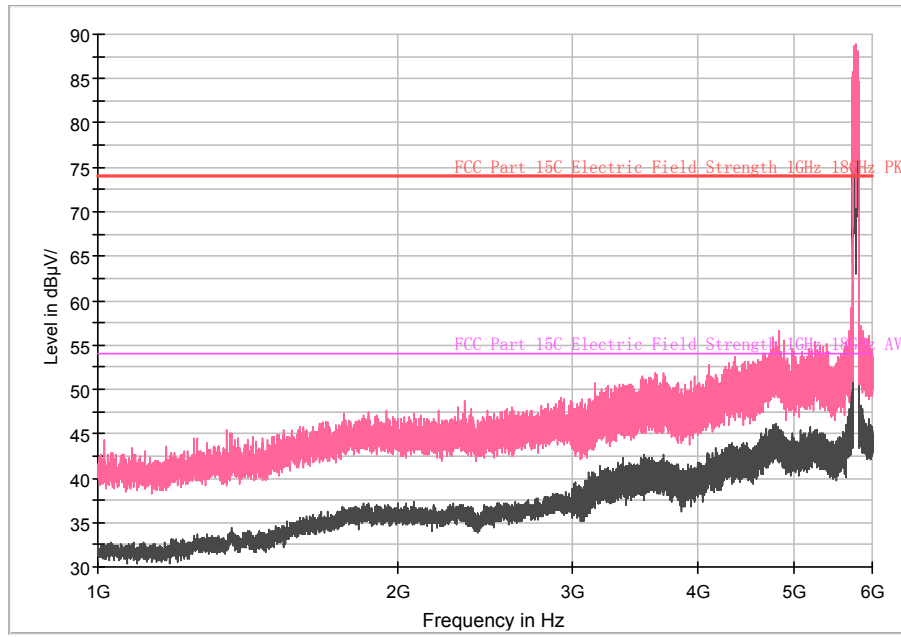
Full Spectrum



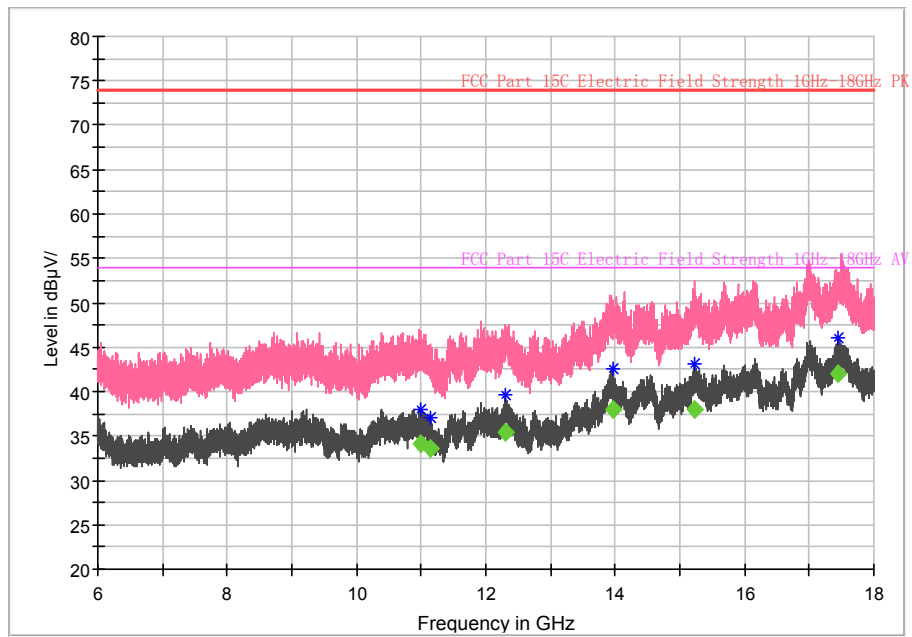
| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | ARpl (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------|----------|
| 11606.000       | ---                    | 56.73                  | ---              | 39.83            | 54.00          | 14.17       | -16.90    | Vertical |
| 12310.400       | ---                    | 52.75                  | ---              | 35.25            | 54.00          | 18.75       | -17.50    | Vertical |
| 13949.600       | ---                    | 52.53                  | ---              | 38.13            | 54.00          | 15.87       | -14.40    | Vertical |
| 15241.200       | ---                    | 51.79                  | ---              | 37.79            | 54.00          | 16.21       | -14.00    | Vertical |
| 16092.000       | ---                    | 54.01                  | ---              | 39.21            | 54.00          | 14.79       | -14.80    | Vertical |
| 17404.000       | ---                    | 59.36                  | ---              | 47.26            | 54.00          | 6.74        | -12.10    | Vertical |

● **802.11ac (VHT80)**  
**Spurious Radiated Emissions from 1GHz to 18GHz:**  
**CH Middle (No.155)**

Full Spectrum

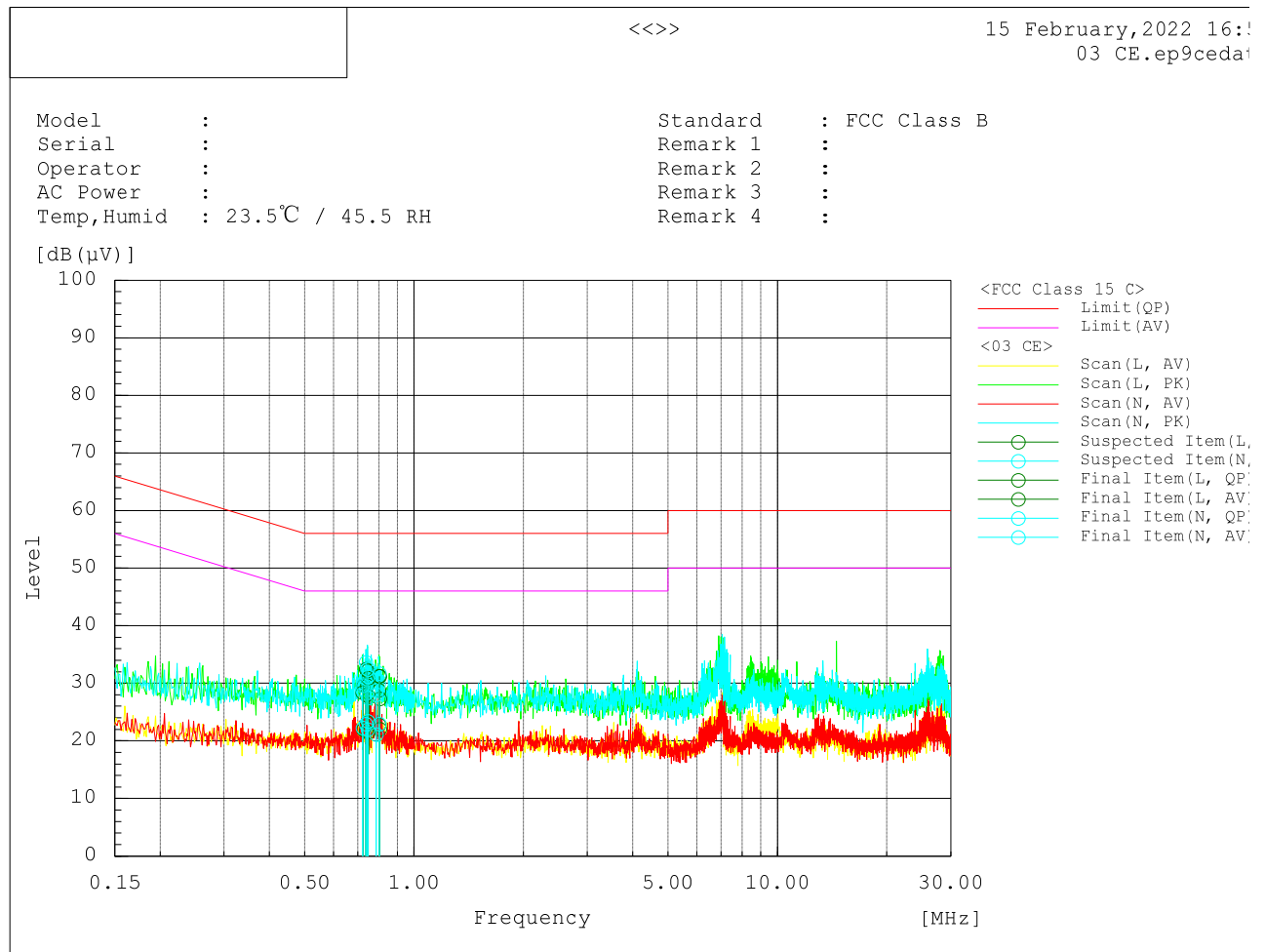


Full Spectrum



| Frequency (MHz) | Reading MaxPeak (dBuV) | Reading Average (dBuV) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | A <sub>Rpl</sub> (dB) | Polarity |
|-----------------|------------------------|------------------------|------------------|------------------|----------------|-------------|-----------------------|----------|
| 10991.200       | ---                    | 52.39                  | ---              | 34.19            | 54.00          | 19.81       | -18.20                | Vertical |
| 11145.200       | ---                    | 51.37                  | ---              | 33.57            | 54.00          | 20.43       | -17.80                | Vertical |
| 12312.400       | ---                    | 52.98                  | ---              | 35.48            | 54.00          | 18.52       | -17.50                | Vertical |
| 13974.400       | ---                    | 52.29                  | ---              | 37.89            | 54.00          | 16.11       | -14.40                | Vertical |
| 15220.800       | ---                    | 51.92                  | ---              | 37.92            | 54.00          | 16.08       | -14.00                | Vertical |
| 17439.200       | ---                    | 54.03                  | ---              | 41.93            | 54.00          | 12.07       | -12.10                | Vertical |

## AC Power line Conducted Emission(EUT TX on (11b) + charging)



| Range | Frequency | Line | Reading |     |    | Factor | Level  |      |    | Limit  | Limit  |    |    | Margin |      |    | Pass/Fail |
|-------|-----------|------|---------|-----|----|--------|--------|------|----|--------|--------|----|----|--------|------|----|-----------|
|       | MHz       |      | dB(μV)  |     |    | dB     | dB(μV) |      |    | dB(μV) | dB(μV) |    |    | dB     |      |    |           |
|       |           |      | QP      | AV  | PK |        | QP     | AV   | PK |        | QP     | AV | PK | QP     | AV   | PK |           |
| Band1 | 0.72      | L    | 9.8     | 2.2 |    | 19.8   | 29.6   | 22   |    |        | 56     | 46 |    | 26.4   | 24   |    | Pass      |
| Band1 | 0.74      | L    | 12.7    | 1.9 |    | 19.8   | 32.5   | 21.7 |    |        | 56     | 46 |    | 23.5   | 24.3 |    | Pass      |
| Band1 | 0.75      | L    | 12.4    | 3.4 |    | 19.8   | 32.2   | 23.2 |    |        | 56     | 46 |    | 23.8   | 22.8 |    | Pass      |
| Band1 | 0.75      | L    | 11.1    | 1.7 |    | 19.8   | 30.9   | 21.5 |    |        | 56     | 46 |    | 25.1   | 24.5 |    | Pass      |
| Band1 | 0.8       | L    | 11.5    | 3   |    | 19.8   | 31.3   | 22.8 |    |        | 56     | 46 |    | 24.7   | 23.2 |    | Pass      |
| Band1 | 0.8       | L    | 11.4    | 2.2 |    | 19.8   | 31.2   | 22   |    |        | 56     | 46 |    | 24.8   | 24   |    | Pass      |
| Band1 | 0.72      | N    | 9.8     | 2.5 |    | 19.8   | 29.6   | 22.3 |    |        | 56     | 46 |    | 26.4   | 23.7 |    | Pass      |
| Band1 | 0.74      | N    | 13.8    | 3.1 |    | 19.8   | 33.6   | 22.9 |    |        | 56     | 46 |    | 22.4   | 23.1 |    | Pass      |
| Band1 | 0.75      | N    | 12.7    | 3.6 |    | 19.8   | 32.5   | 23.4 |    |        | 56     | 46 |    | 23.5   | 22.6 |    | Pass      |
| Band1 | 0.75      | N    | 11.4    | 2.2 |    | 19.8   | 31.2   | 22   |    |        | 56     | 46 |    | 24.8   | 24   |    | Pass      |
| Band1 | 0.79      | N    | 8.3     | 1.3 |    | 19.8   | 28.1   | 21.1 |    |        | 56     | 46 |    | 27.9   | 24.9 |    | Pass      |
| Band1 | 0.8       | N    | 11.9    | 3.1 |    | 19.8   | 31.7   | 22.9 |    |        | 56     | 46 |    | 24.3   | 23.1 |    | Pass      |

---The end of the test report---