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#### 4.8.1.1.7 802.11N20 Lowest Channel

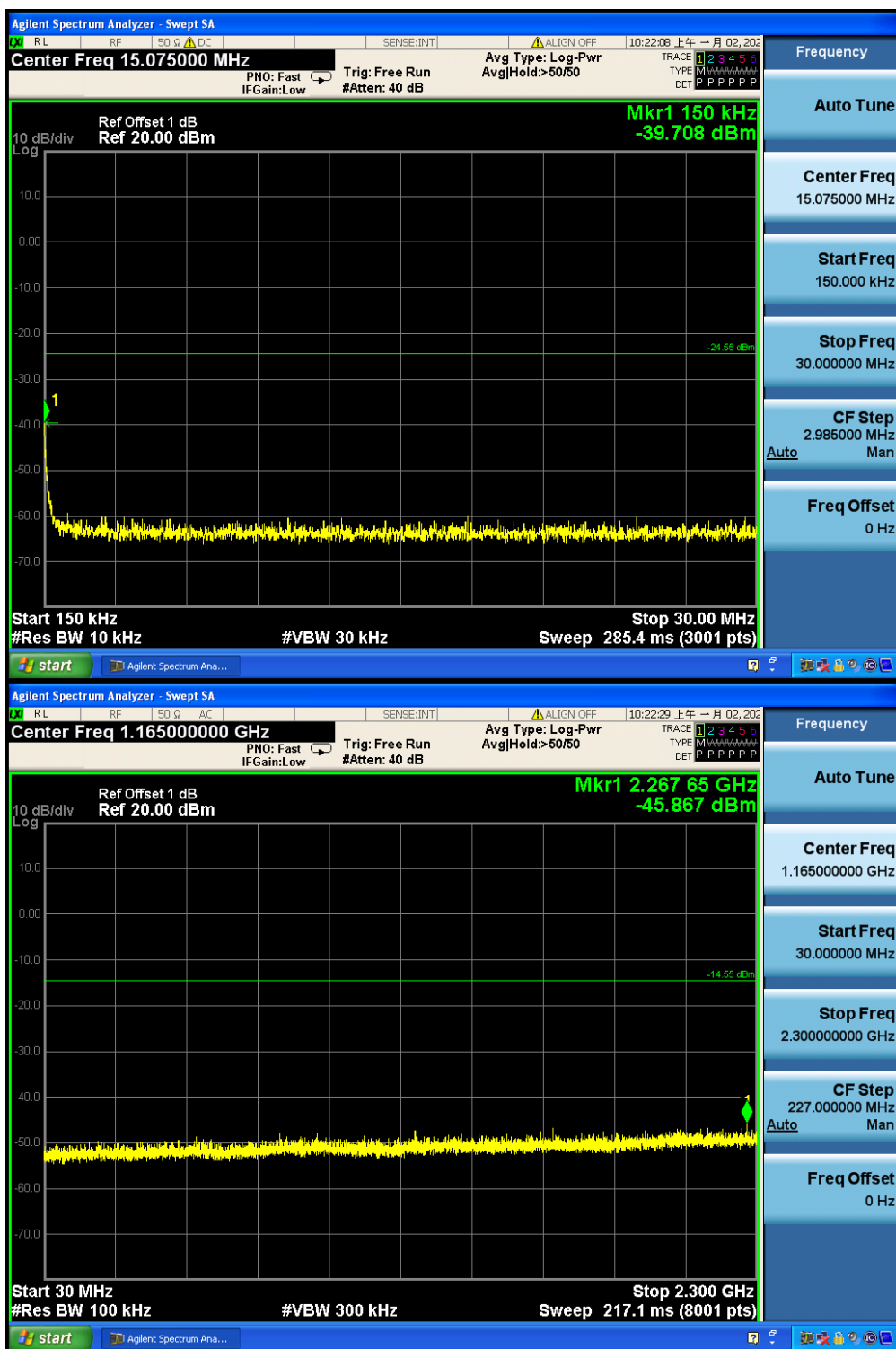


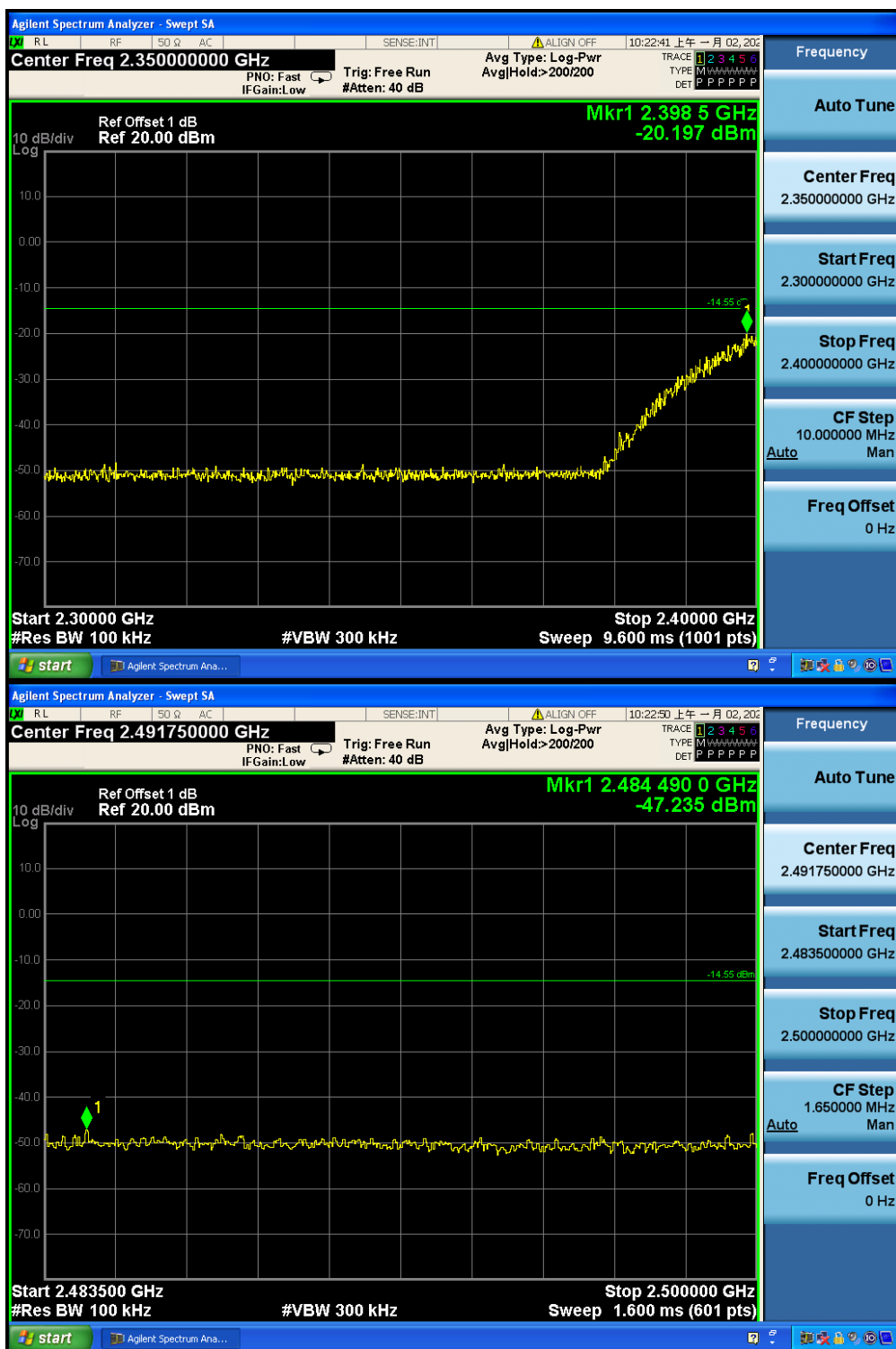
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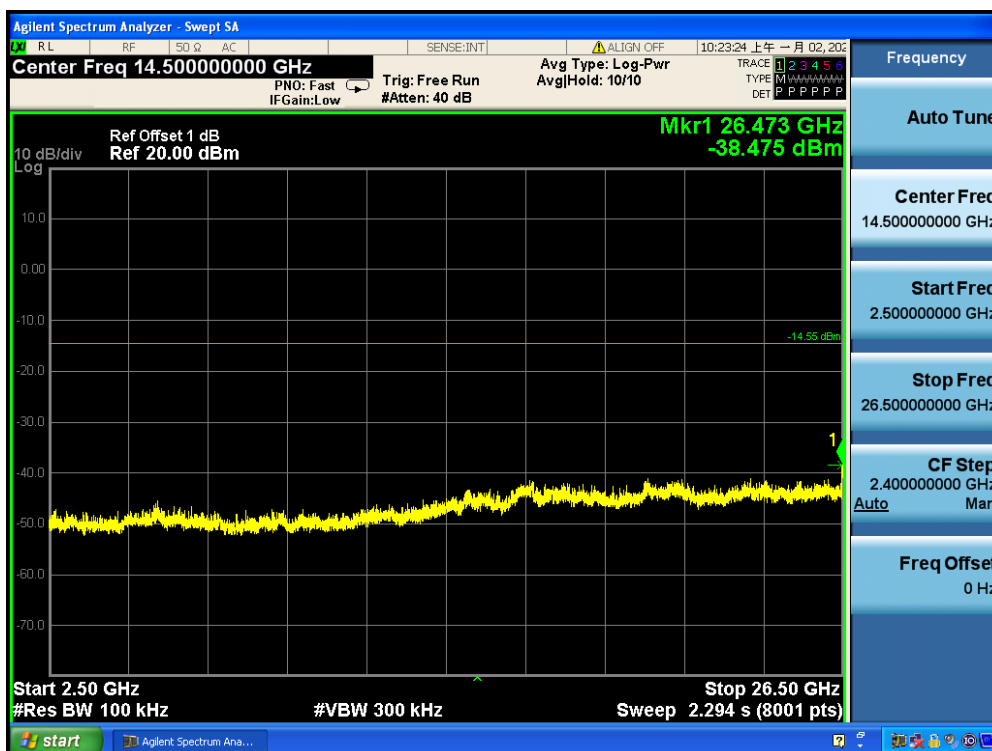
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#### 4.8.1.1.8 802.11 N20\_ Middle Channel

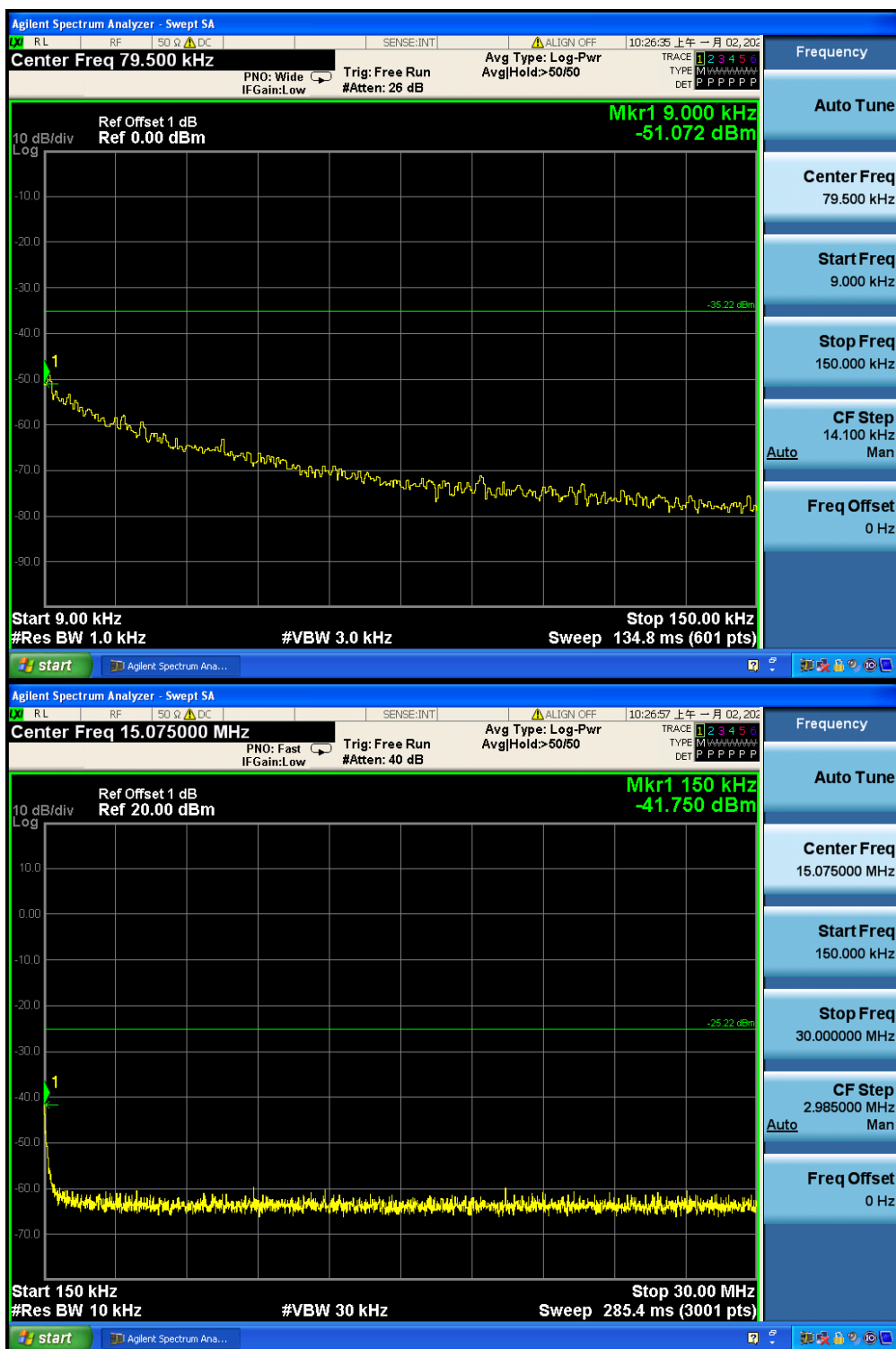


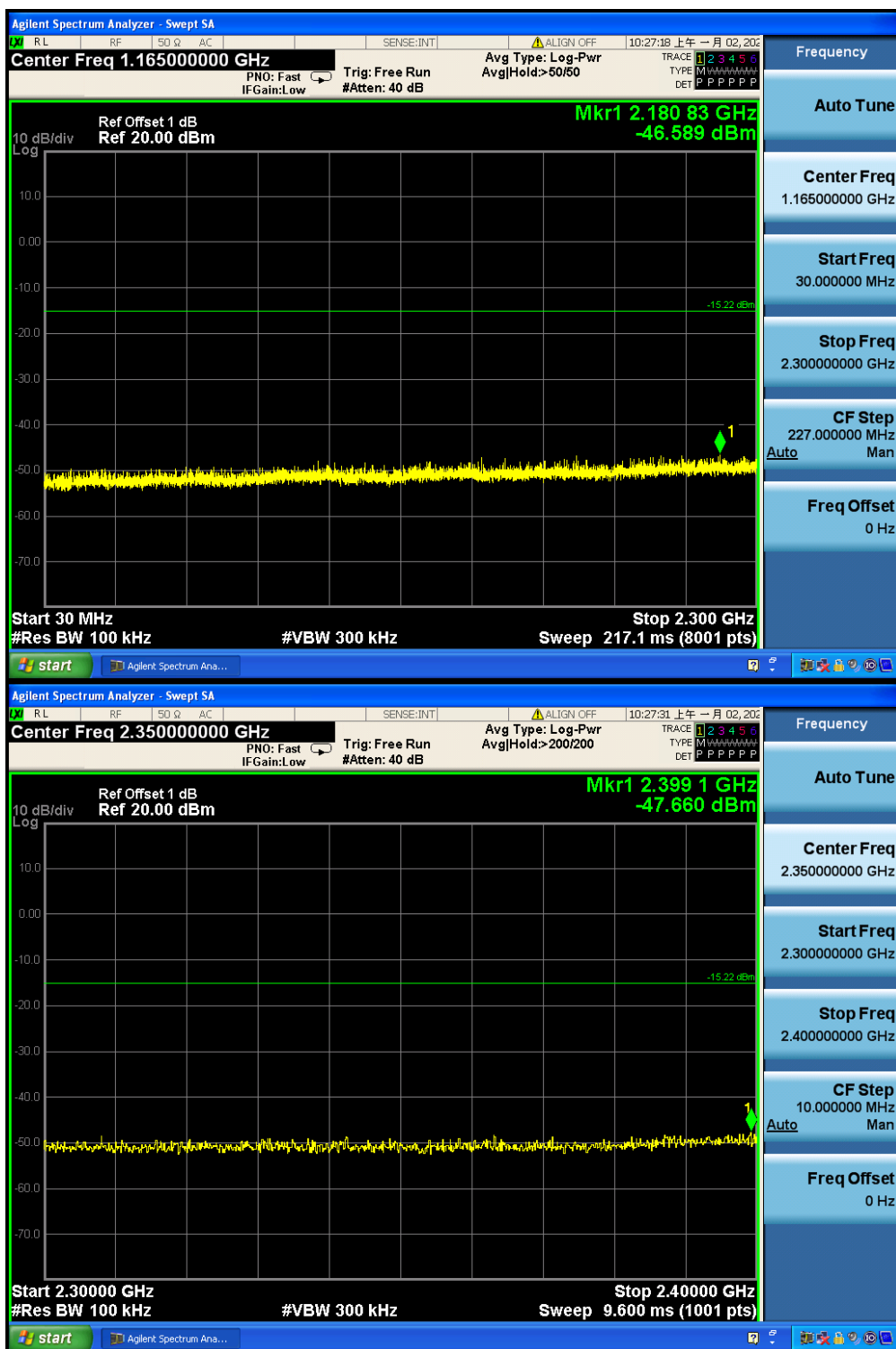
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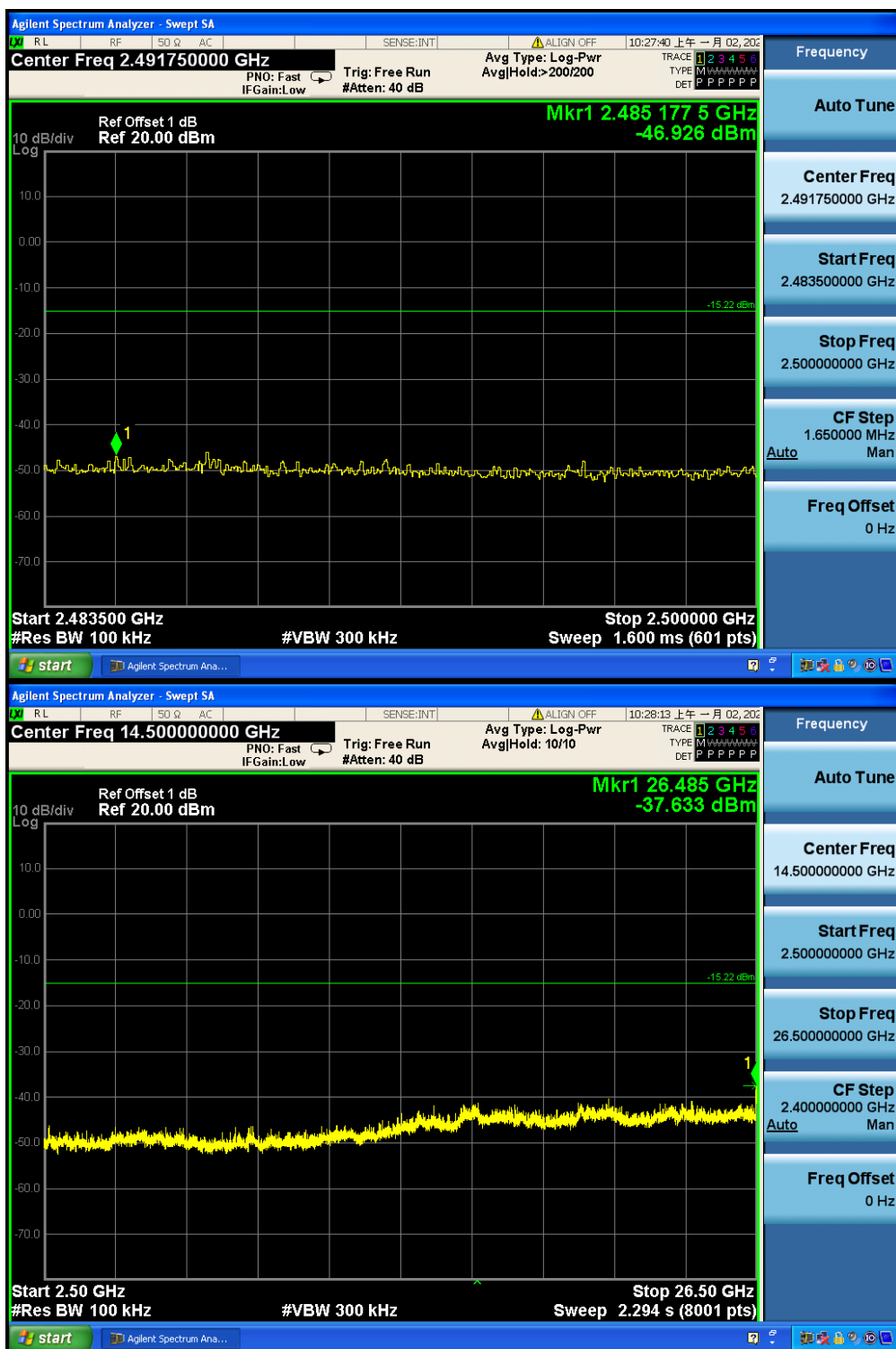
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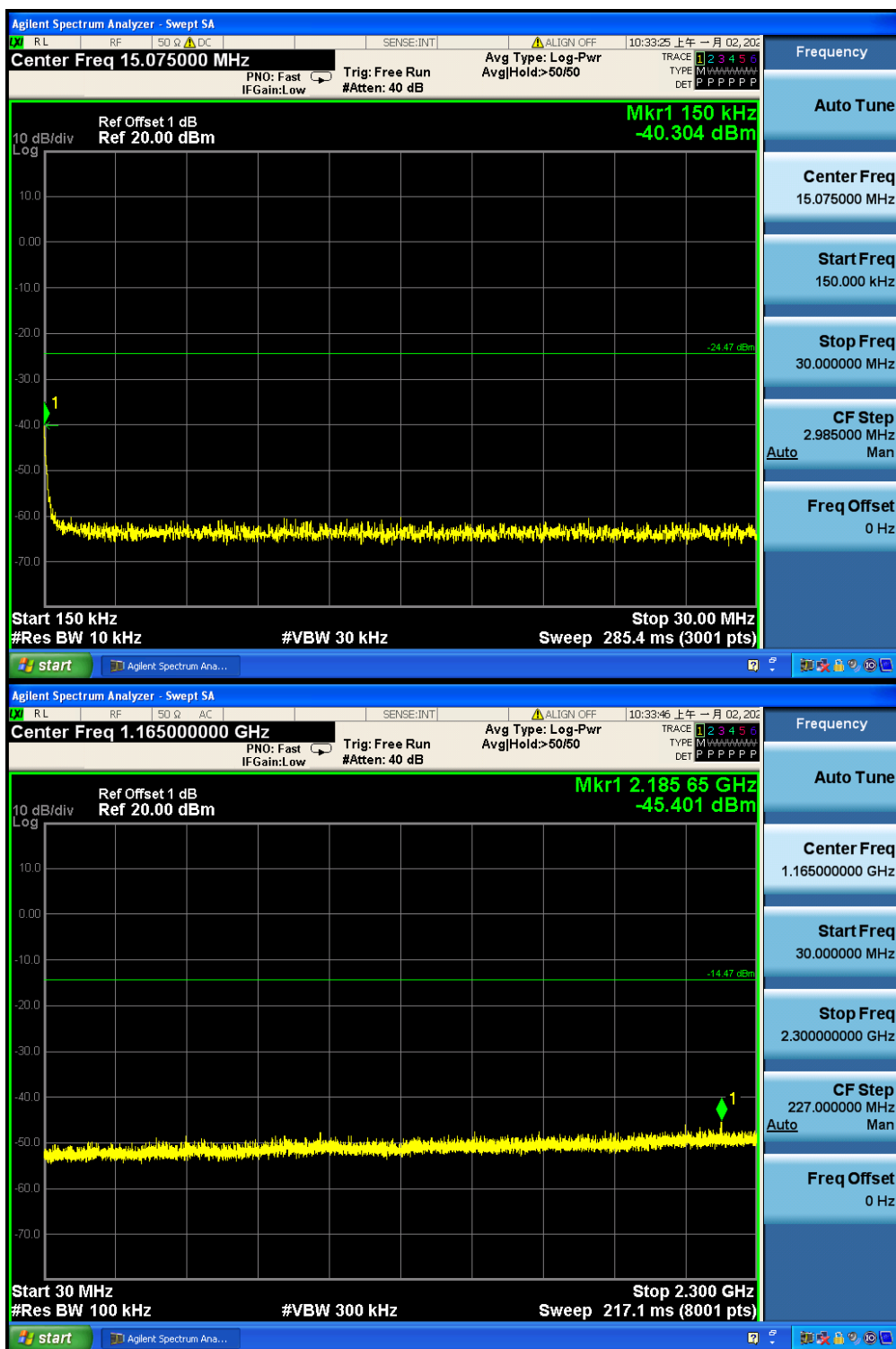




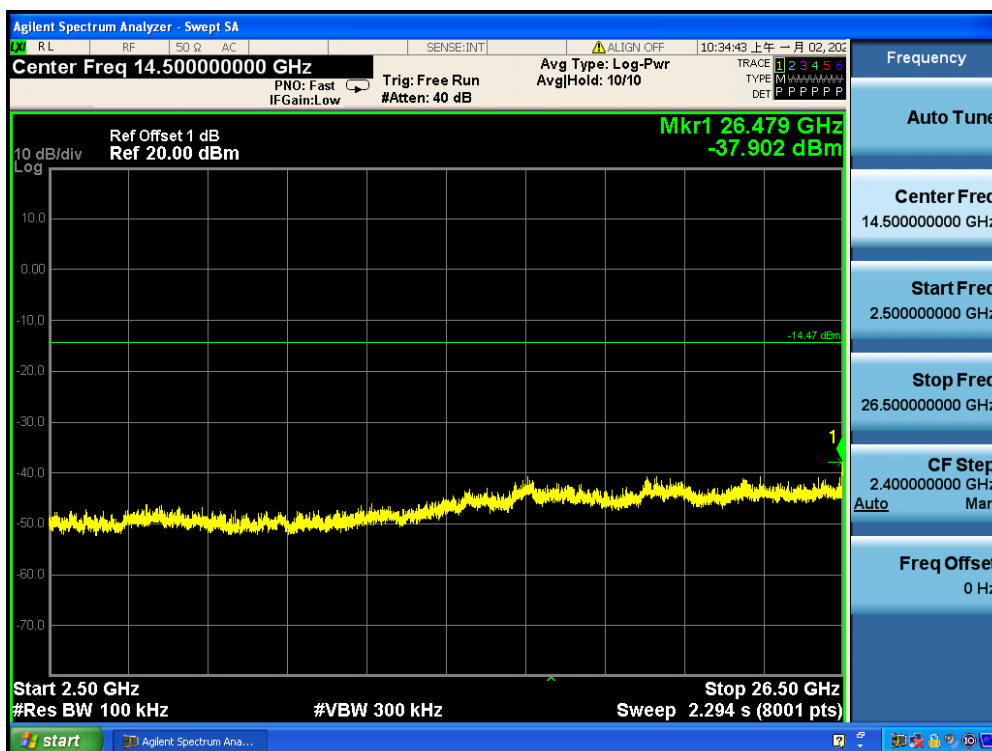


#### 4.8.1.1.9 802.11 N20\_Highest Channel

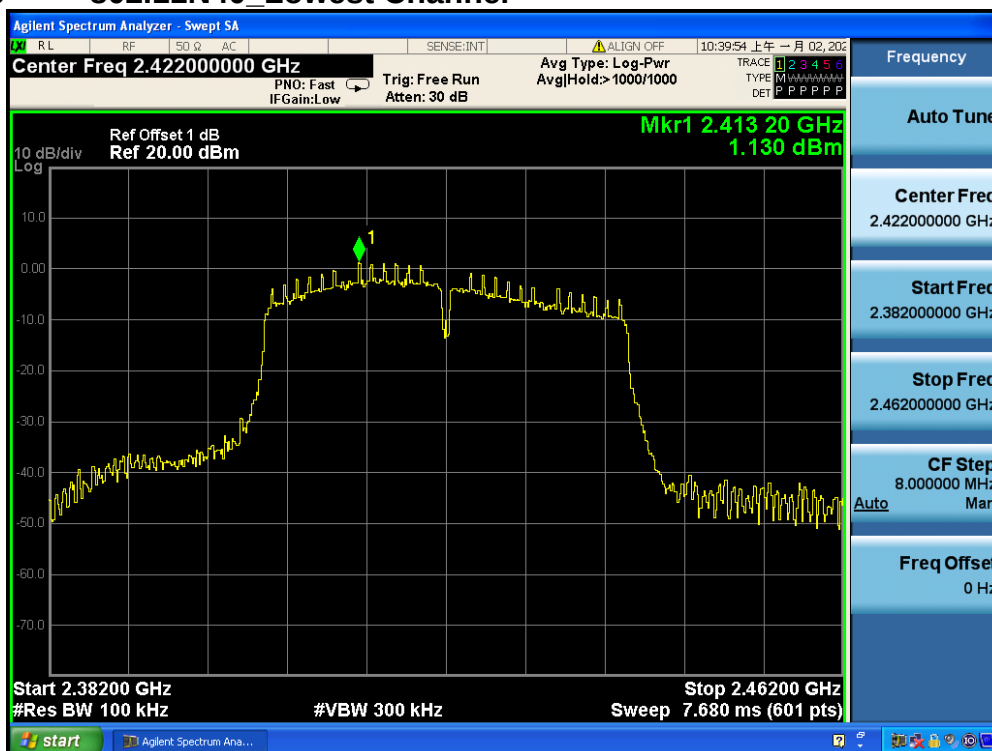


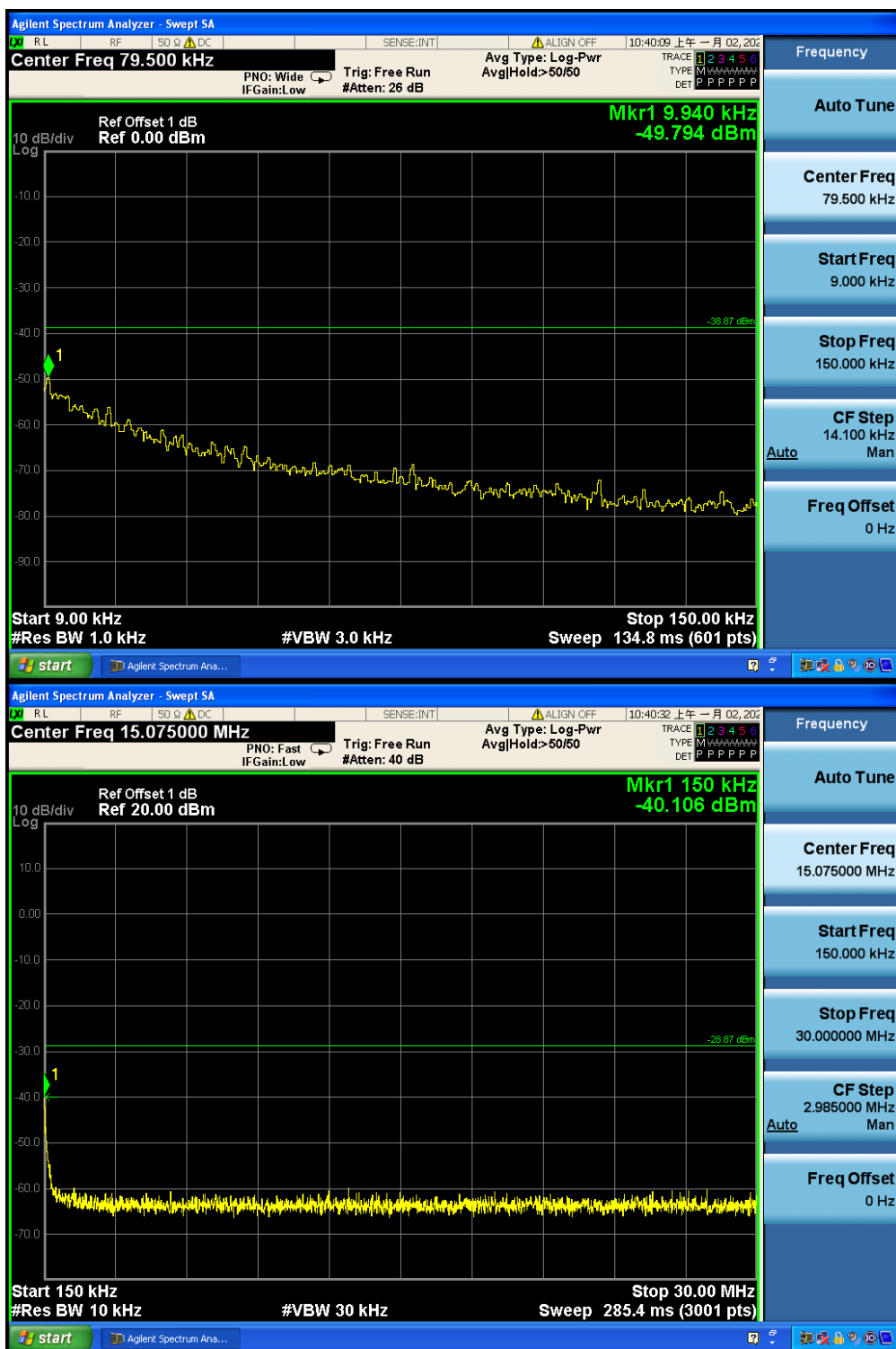


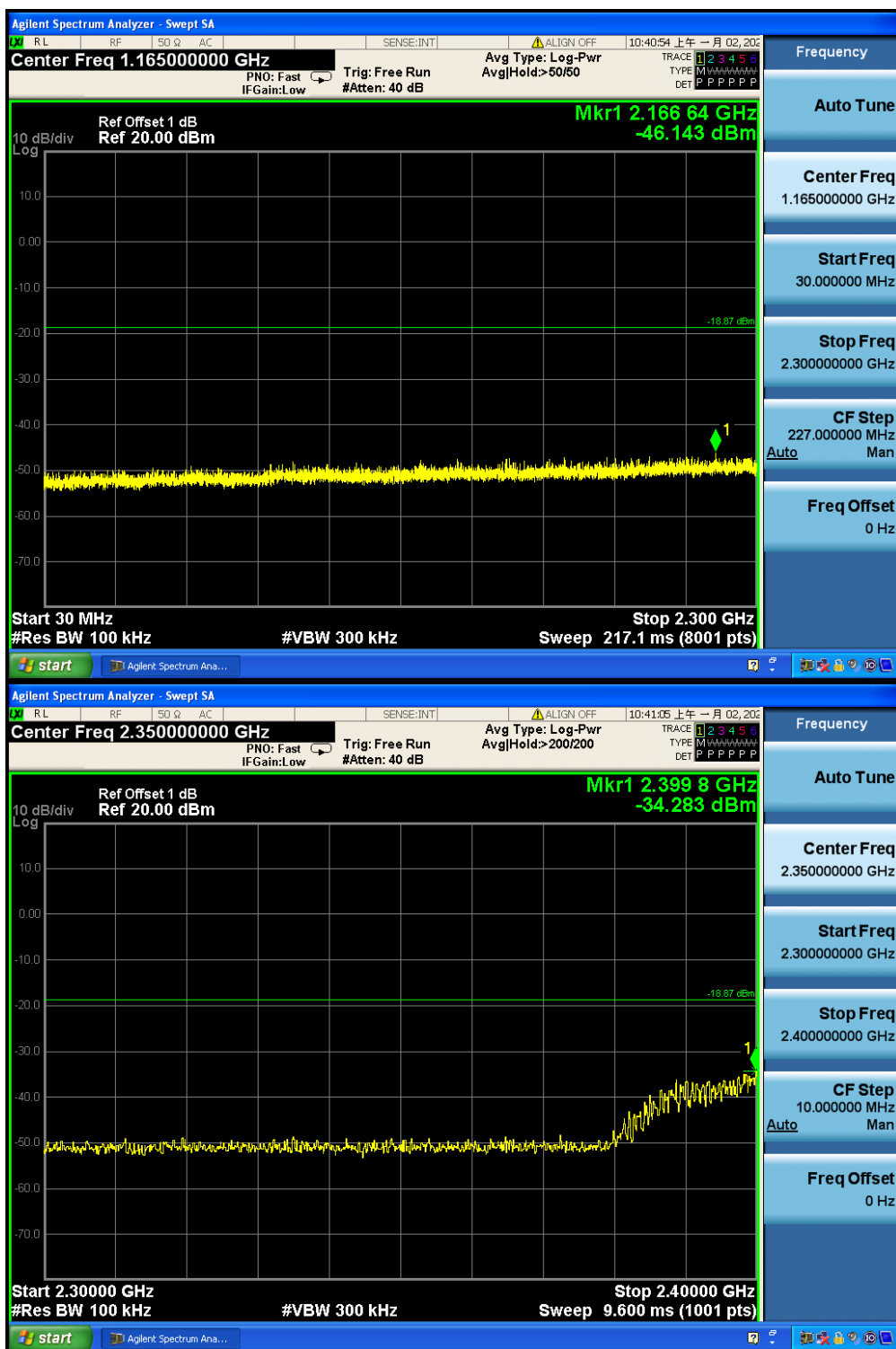




#### 4.8.1.1.10 802.11N40\_Lowest Channel



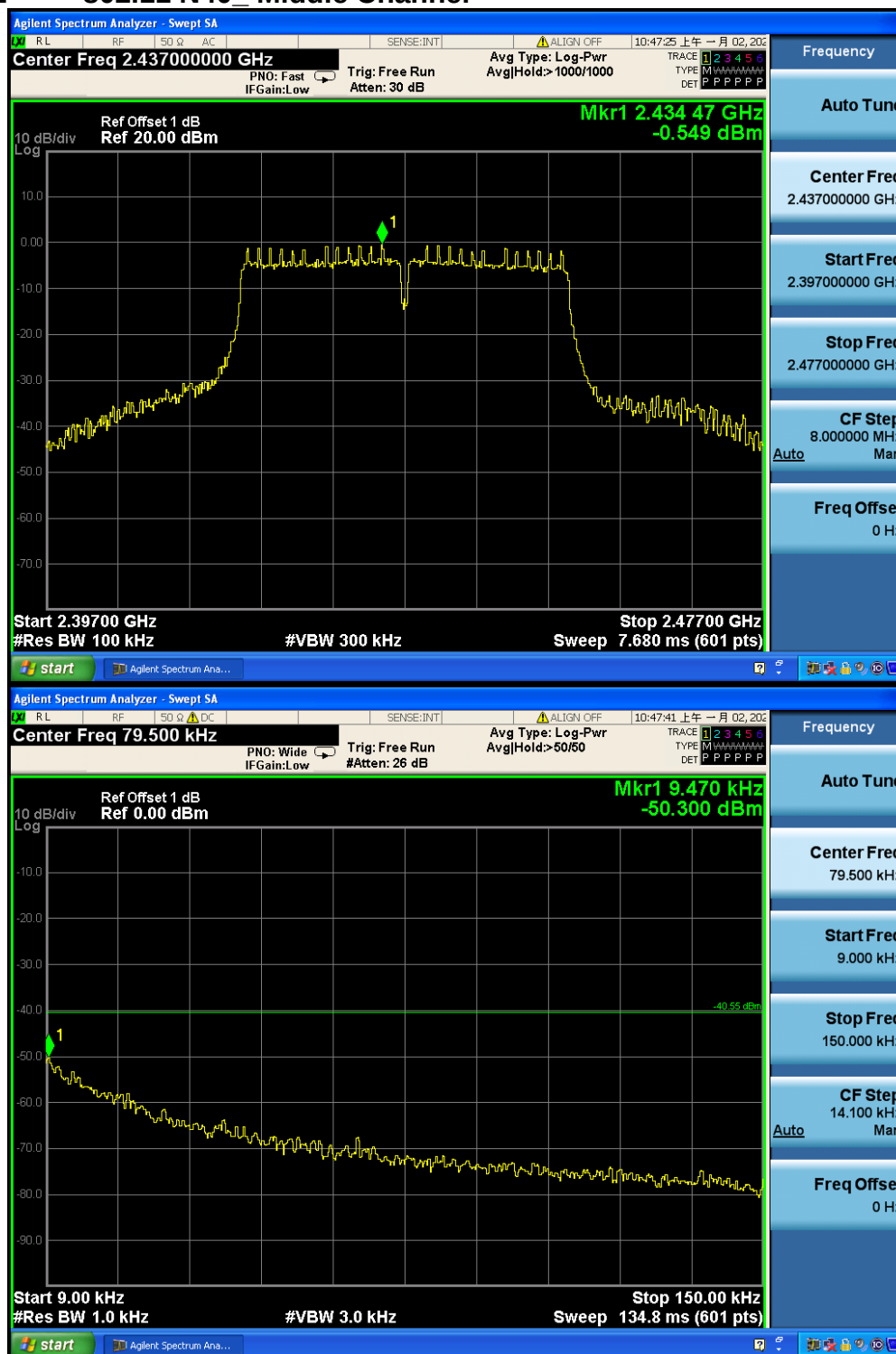


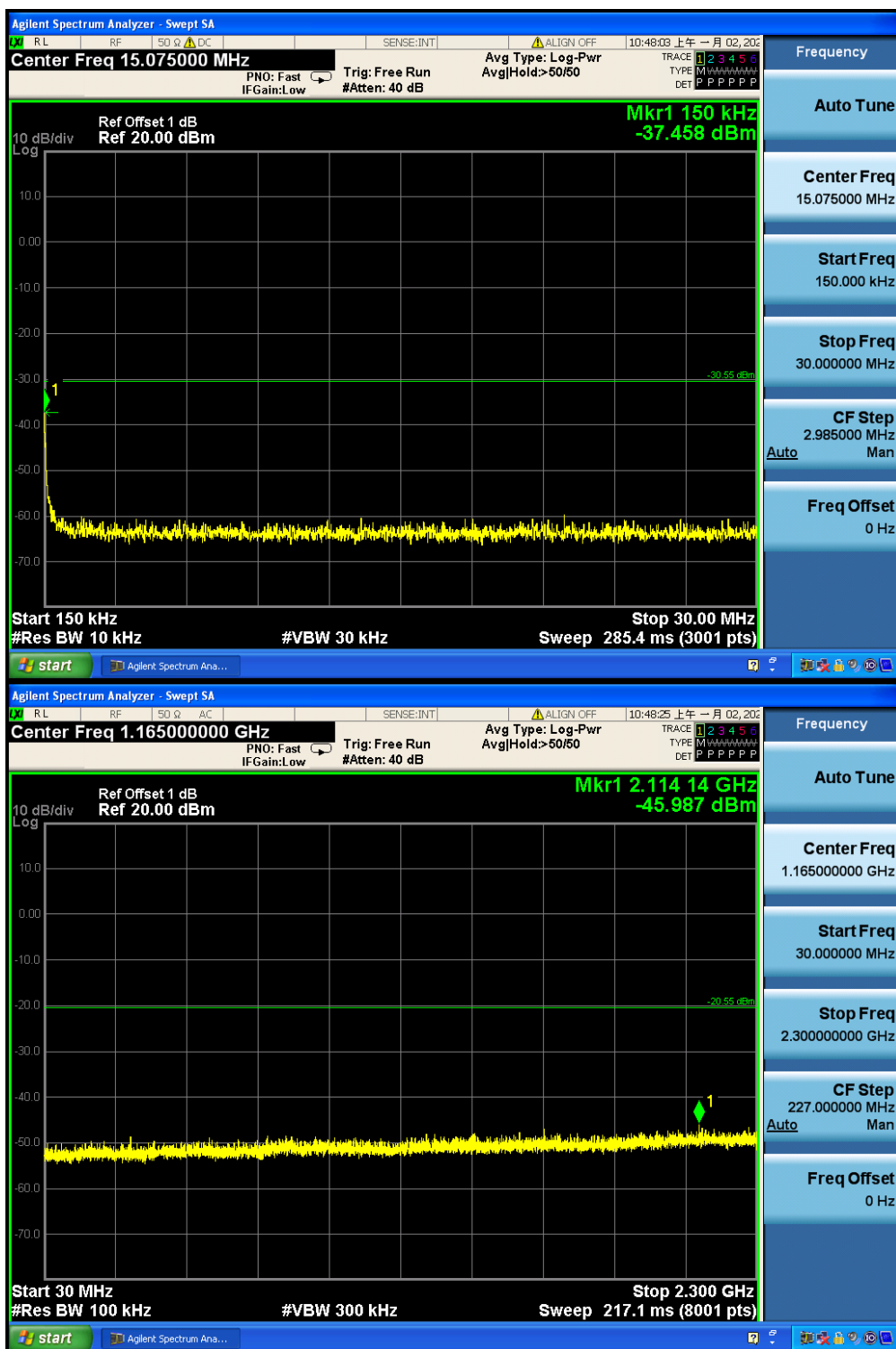


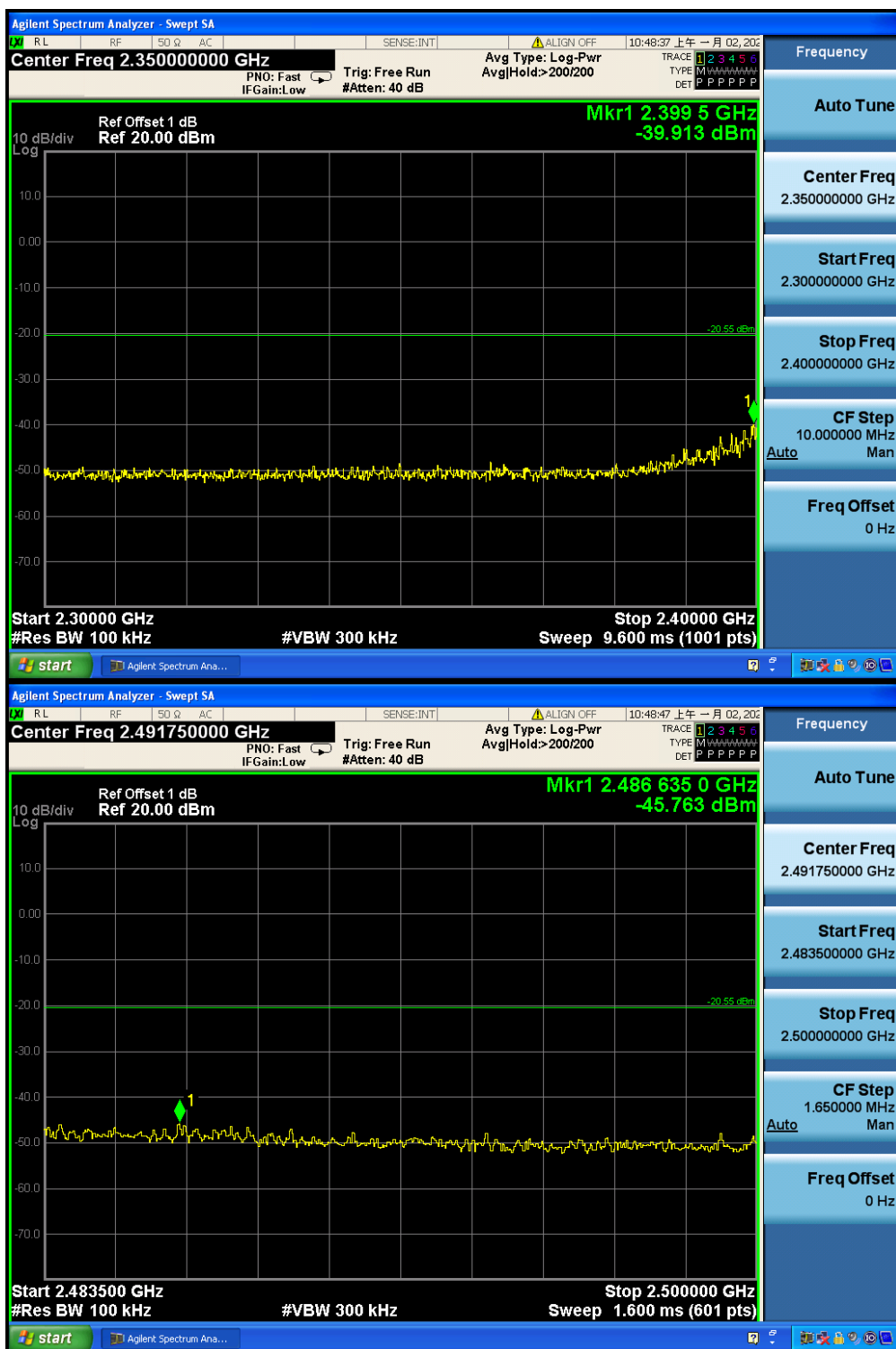




#### 4.8.1.1.11 802.11 N40\_ Middle Channel







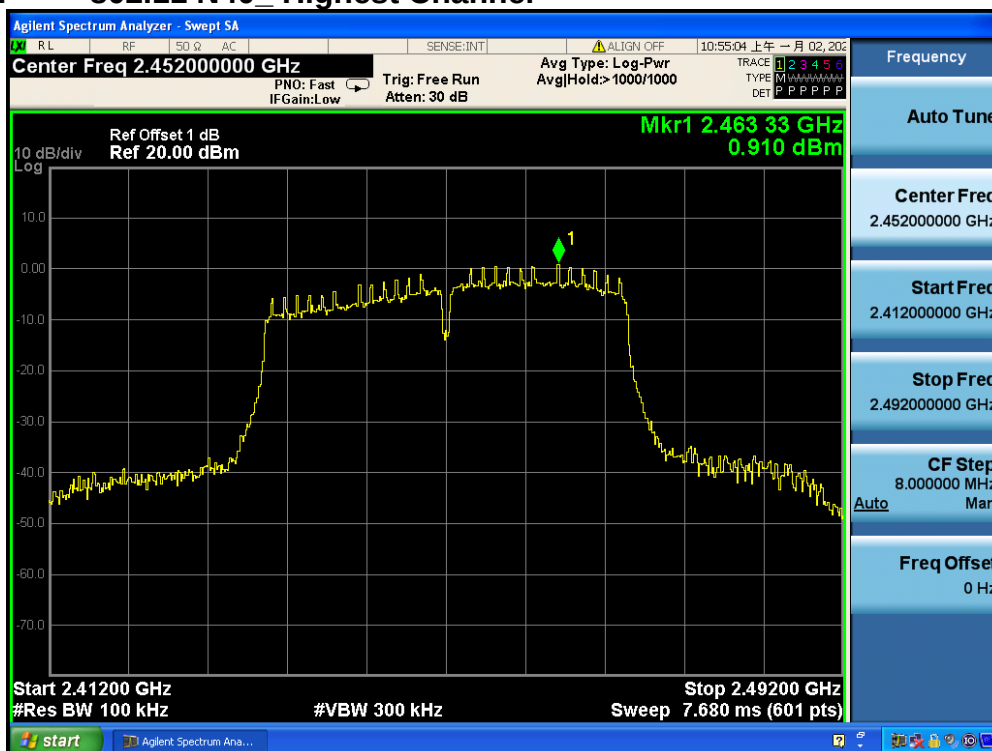
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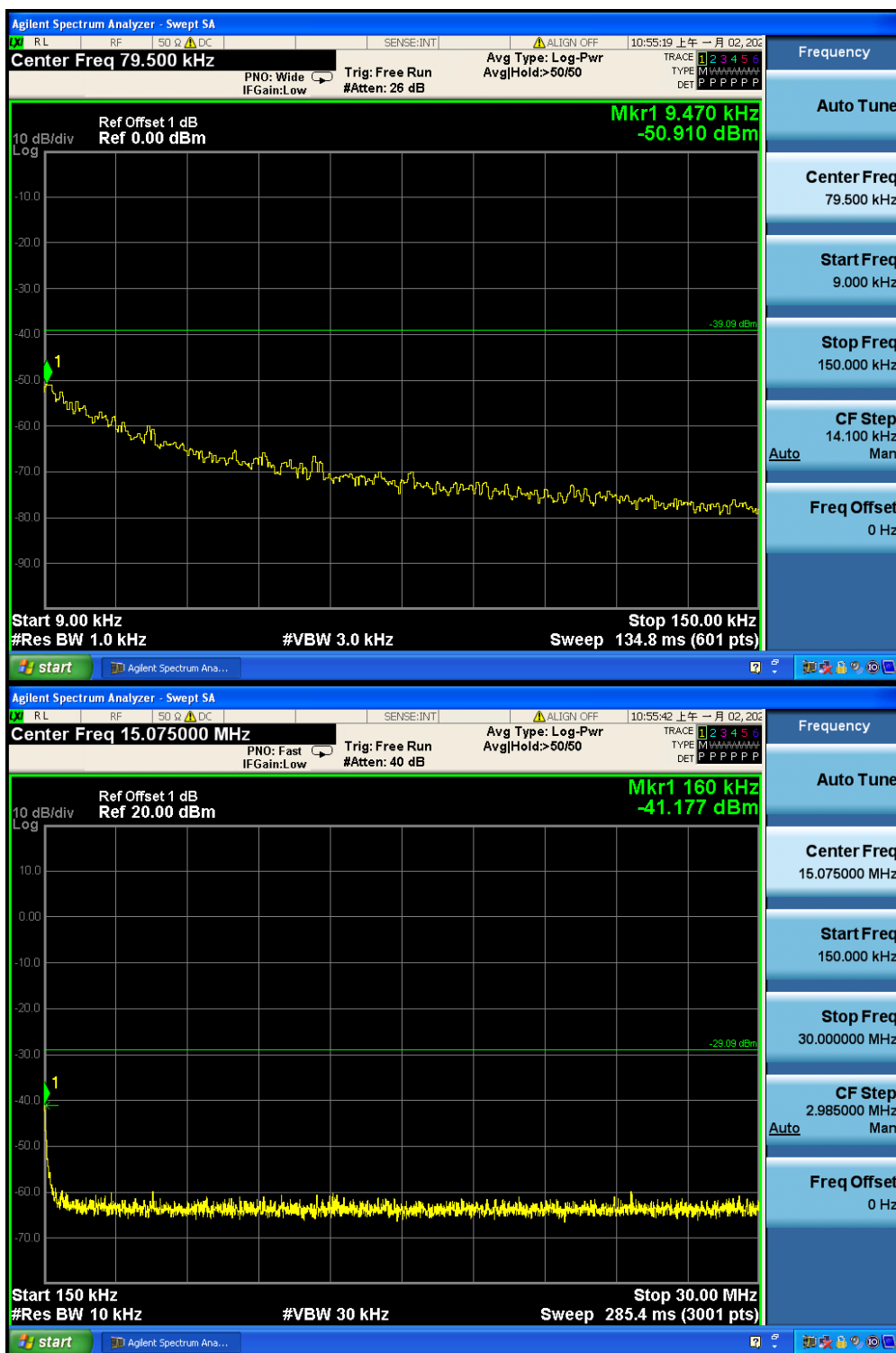
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#### 4.8.1.1.12 802.11 N40\_ Highest Channel







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Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



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## 4.9 Radiated Spurious Emissions

|                   |                                                                                                                                                                                                                                                                               |                                  |                |            |                          |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------|------------|--------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205                                                                                                                                                                                                                                     |                                  |                |            |                          |
| Test Method:      | ANSI C63.10 :2013 Section 11.12                                                                                                                                                                                                                                               |                                  |                |            |                          |
| Test Site:        | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)                                                                                                                                                                                                                       |                                  |                |            |                          |
| Receiver Setup:   | Frequency                                                                                                                                                                                                                                                                     | Detector                         | RBW            | VBW        | Remark                   |
|                   | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                             | Peak                             | 10kHz          | 30kHz      | Peak                     |
|                   | 0.009MHz-0.090MHz                                                                                                                                                                                                                                                             | Average                          | 10kHz          | 30kHz      | Average                  |
|                   | 0.090MHz-0.110MHz                                                                                                                                                                                                                                                             | Quasi-peak                       | 10kHz          | 30kHz      | Quasi-peak               |
|                   | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                             | Peak                             | 10kHz          | 30kHz      | Peak                     |
|                   | 0.110MHz-0.490MHz                                                                                                                                                                                                                                                             | Average                          | 10kHz          | 30kHz      | Average                  |
|                   | 0.490MHz -30MHz                                                                                                                                                                                                                                                               | Quasi-peak                       | 10kHz          | 30kHz      | Quasi-peak               |
|                   | 30MHz-1GHz                                                                                                                                                                                                                                                                    | Quasi-peak                       | 100 kHz        | 300kHz     | Quasi-peak               |
| Limit:            | Above 1GHz                                                                                                                                                                                                                                                                    | Peak                             | 1MHz           | 3MHz       | Peak                     |
|                   |                                                                                                                                                                                                                                                                               | Peak                             | 1MHz           | 10Hz       | Average                  |
|                   | Frequency                                                                                                                                                                                                                                                                     | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|                   | 0.009MHz-0.490MHz                                                                                                                                                                                                                                                             | 2400/F(kHz)                      | -              | -          | 300                      |
|                   | 0.490MHz-1.705MHz                                                                                                                                                                                                                                                             | 24000/F(kHz)                     | -              | -          | 30                       |
|                   | 1.705MHz-30MHz                                                                                                                                                                                                                                                                | 30                               | -              | -          | 30                       |
|                   | 30MHz-88MHz                                                                                                                                                                                                                                                                   | 100                              | 40.0           | Quasi-peak | 3                        |
|                   | 88MHz-216MHz                                                                                                                                                                                                                                                                  | 150                              | 43.5           | Quasi-peak | 3                        |
|                   | 216MHz-960MHz                                                                                                                                                                                                                                                                 | 200                              | 46.0           | Quasi-peak | 3                        |
|                   | 960MHz-1GHz                                                                                                                                                                                                                                                                   | 500                              | 54.0           | Quasi-peak | 3                        |
|                   | Above 1GHz                                                                                                                                                                                                                                                                    | 500                              | 54.0           | Average    | 3                        |
|                   | Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. |                                  |                |            |                          |
| Test Setup:       |                                                                                                                                                                                                                                                                               |                                  |                |            |                          |



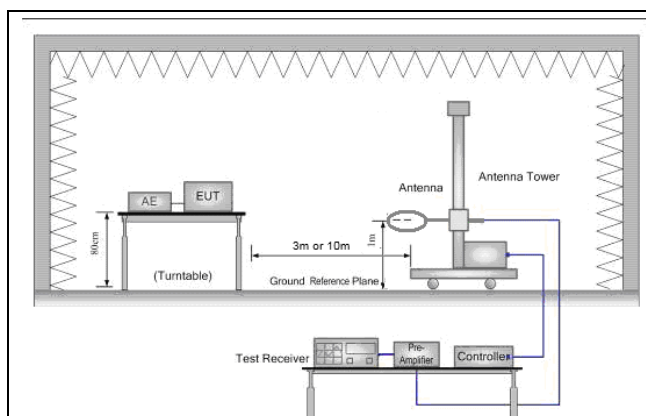


Figure 1. Below 30MHz

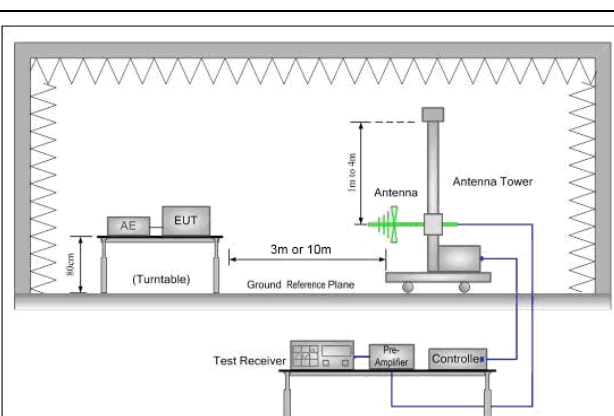


Figure 2. 30MHz to 1GHz

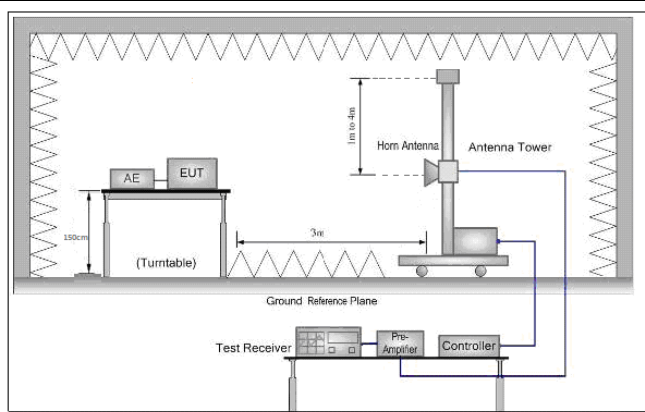


Figure 3. Above 1 GHz

**Test Procedure:**

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be



|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p> |
| Exploratory Test Mode: | Transmitting with all kind of modulations, data rates.<br>Charge + Transmitting mode.                                                                                                                                                                                                                                                                                                                                                                    |
| Final Test Mode:       | Pretest the EUT at Charge + Transmitting mode.<br>Through Pre-scan, find the<br>1Mbps of rate is the worst case of 802.11B;<br>6Mbps of rate is the worst case of 802.11G;<br>6.5Mbps of rate is the worst case of 802.11N(HT20);<br>13.5Mbps of rate is the worst case of 802.11N(HT40)<br>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.      |
| Instruments Used:      | Refer to section 6 for details                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



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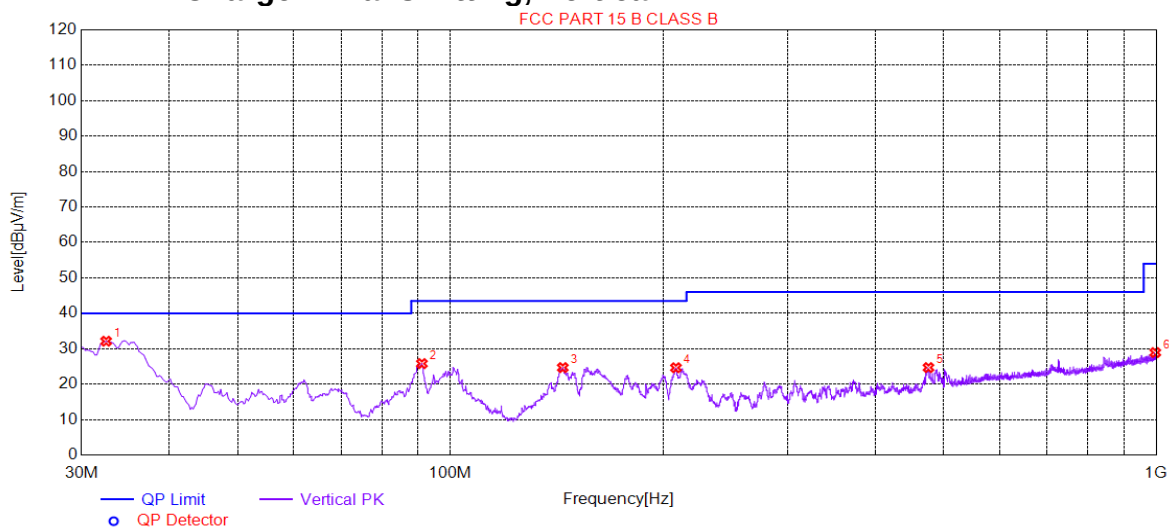
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#### 4.9.1 Radiated emission below 1GHz

##### 4.9.1.1 Charge + Transmitting, Vertical

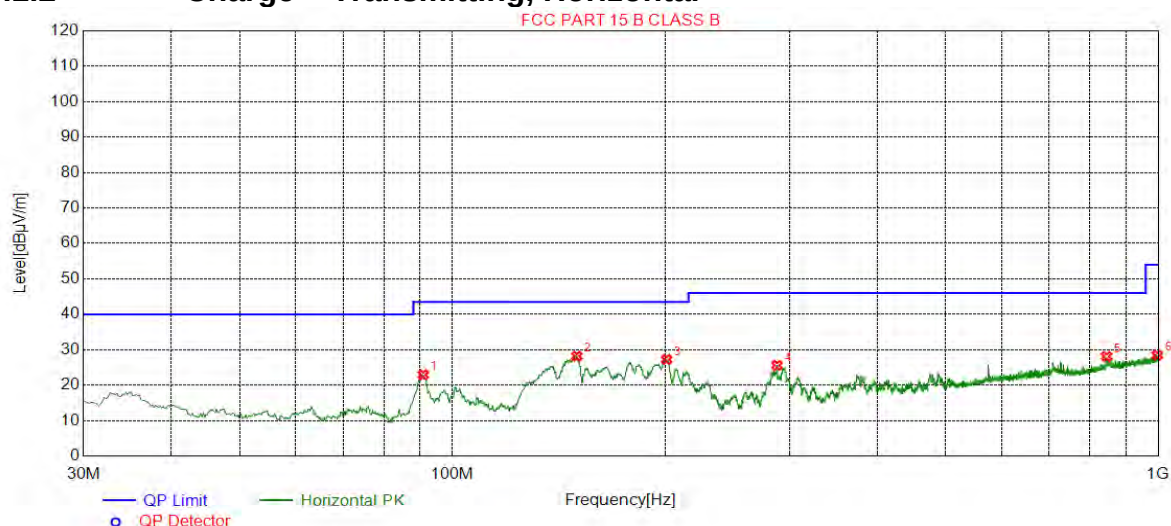


| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 32.5225     | 32.12          | -30.02      | 40.00          | 7.88        | 291         | 14        | Vertical |
| 2              | 91.1222     | 25.80          | -33.53      | 43.50          | 17.70       | 176         | 272       | Vertical |
| 3              | 144.2889    | 24.67          | -35.34      | 43.50          | 18.83       | 200         | 336       | Vertical |
| 4              | 208.7097    | 24.63          | -31.01      | 43.50          | 18.87       | 210         | 343       | Vertical |
| 5              | 475.7071    | 24.68          | -23.91      | 46.00          | 21.32       | 228         | 25        | Vertical |
| 6              | 997.0894    | 28.92          | -14.83      | 54.00          | 25.08       | 227         | 346       | Vertical |





#### 4.9.1.2 Charge + Transmitting, Horizontal



#### Suspected List

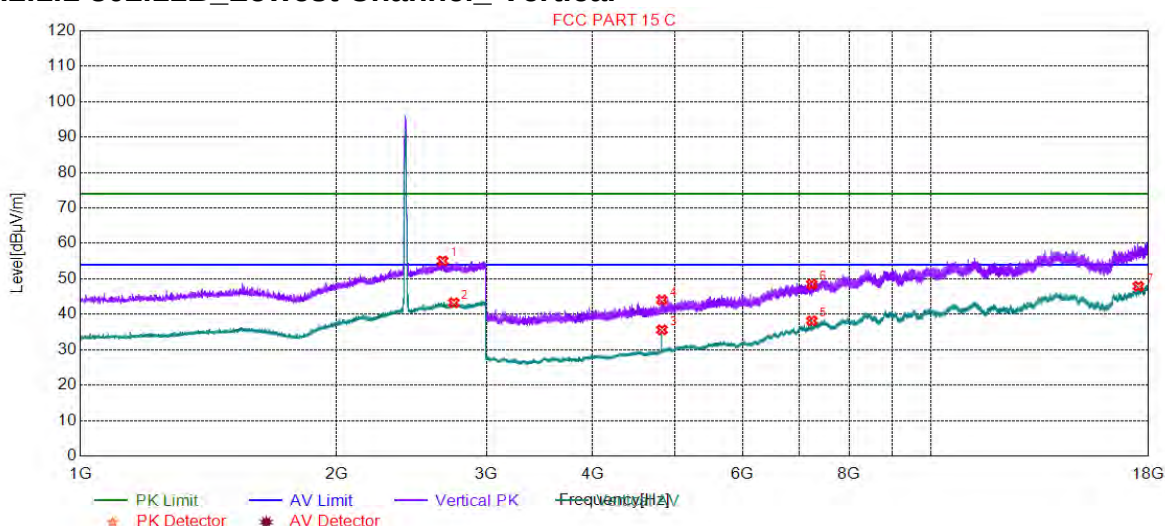
| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 90.9282     | 22.96          | -33.56      | 43.50          | 20.54       | 214         | 187       | Horizontal |
| 2   | 150.1100    | 28.19          | -35.08      | 43.50          | 15.31       | 187         | 245       | Horizontal |
| 3   | 201.1422    | 27.26          | -31.16      | 43.50          | 16.24       | 102         | 239       | Horizontal |
| 4   | 288.2657    | 25.61          | -28.71      | 46.00          | 20.39       | 175         | 34        | Horizontal |
| 5   | 844.9630    | 28.12          | -16.97      | 46.00          | 17.88       | 236         | 228       | Horizontal |
| 6   | 997.0894    | 28.48          | -14.83      | 54.00          | 25.52       | 116         | 274       | Horizontal |



## 4.9.2 Transmitter emission above 1GHz

### 4.9.2.1 ANT1

#### 4.9.2.1.1 802.11B\_Lowest Channel\_Vertical



#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 2664.9162   | 55.08          | 8.67        | 74.00          | 18.92       | 169         | 303       | Vertical |
| 2   | 2746.4366   | 43.24          | 9.07        | 54.00          | 10.76       | 289         | 45        | Vertical |
| 3   | 4824.0000   | 35.62          | -18.21      | 54.00          | 18.38       | 271         | 99        | Vertical |
| 4   | 4824.0000   | 44.03          | -18.21      | 74.00          | 29.97       | 297         | 262       | Vertical |
| 5   | 7236.0000   | 38.16          | -9.99       | 54.00          | 15.84       | 170         | 266       | Vertical |
| 6   | 7236.0000   | 48.47          | -9.99       | 74.00          | 25.53       | 265         | 266       | Vertical |
| 7   | 17509.9255  | 47.88          | 1.96        | 54.00          | 6.12        | 277         | 359       | Vertical |



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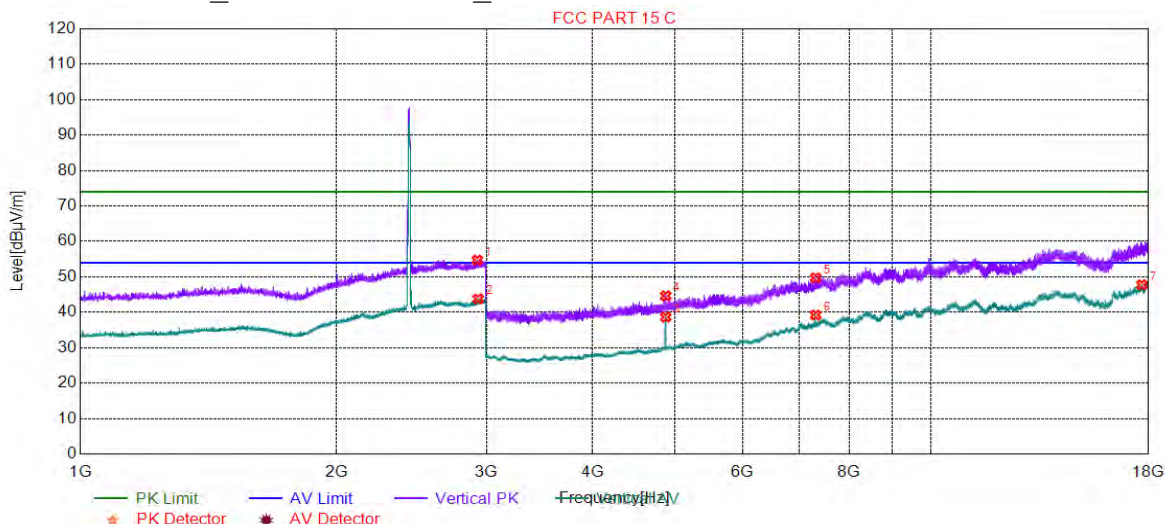
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#### 4.9.2.1.2 802.11B\_ Middle Channel\_ Vertical



#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 2927.4819   | 54.73          | 9.44        | 74.00          | 19.27       | 245         | 86        | Vertical |
| 2   | 2934.4836   | 43.82          | 9.51        | 54.00          | 10.18       | 153         | 249       | Vertical |
| 3   | 4874.0000   | 38.63          | -17.99      | 54.00          | 15.37       | 234         | 71        | Vertical |
| 4   | 4874.0000   | 44.64          | -17.99      | 74.00          | 29.36       | 189         | 97        | Vertical |
| 5   | 7311.0000   | 49.75          | -9.74       | 74.00          | 24.25       | 246         | 267       | Vertical |
| 6   | 7311.0000   | 39.23          | -9.74       | 54.00          | 14.77       | 174         | 68        | Vertical |
| 7   | 17673.8337  | 47.77          | 2.35        | 54.00          | 6.23        | 299         | 18        | Vertical |



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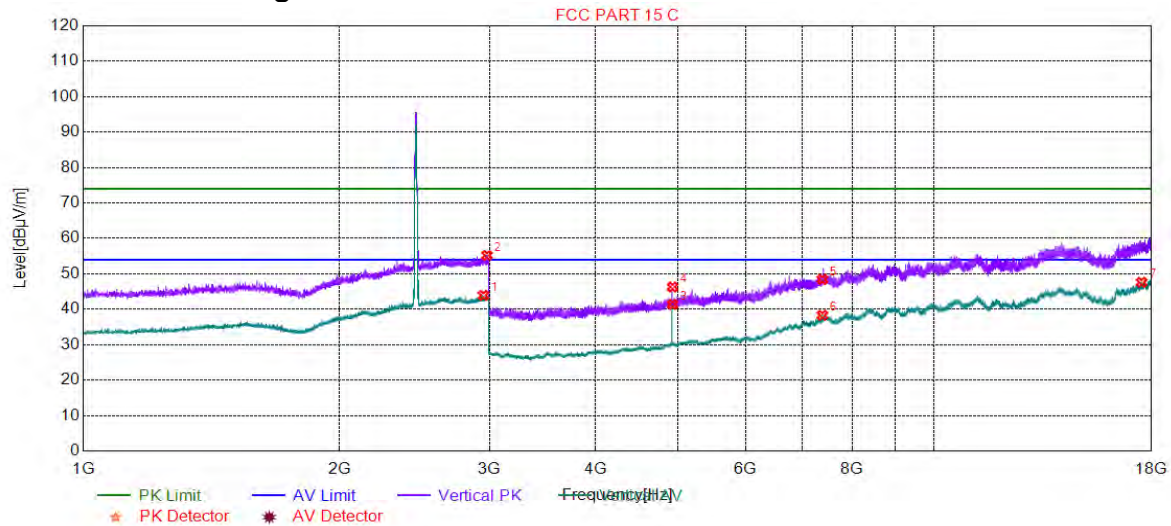
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#### 4.9.2.1.3 802.11B\_ Highest Channel\_ Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2951.9880   | 43.94          | 9.67        | 54.00          | 10.06       | 191         | 44        | Vertical |
| 2              | 2980.9952   | 55.22          | 9.54        | 74.00          | 18.78       | 278         | 44        | Vertical |
| 3              | 4924.0000   | 41.35          | -17.72      | 54.00          | 12.65       | 229         | 288       | Vertical |
| 4              | 4924.0000   | 46.30          | -17.72      | 74.00          | 27.70       | 240         | 260       | Vertical |
| 5              | 7386.0000   | 48.42          | -9.55       | 74.00          | 25.58       | 270         | 267       | Vertical |
| 6              | 7386.0000   | 38.32          | -9.55       | 54.00          | 15.68       | 290         | 217       | Vertical |
| 7              | 17517.0759  | 47.64          | 1.99        | 54.00          | 6.36        | 153         | 360       | Vertical |



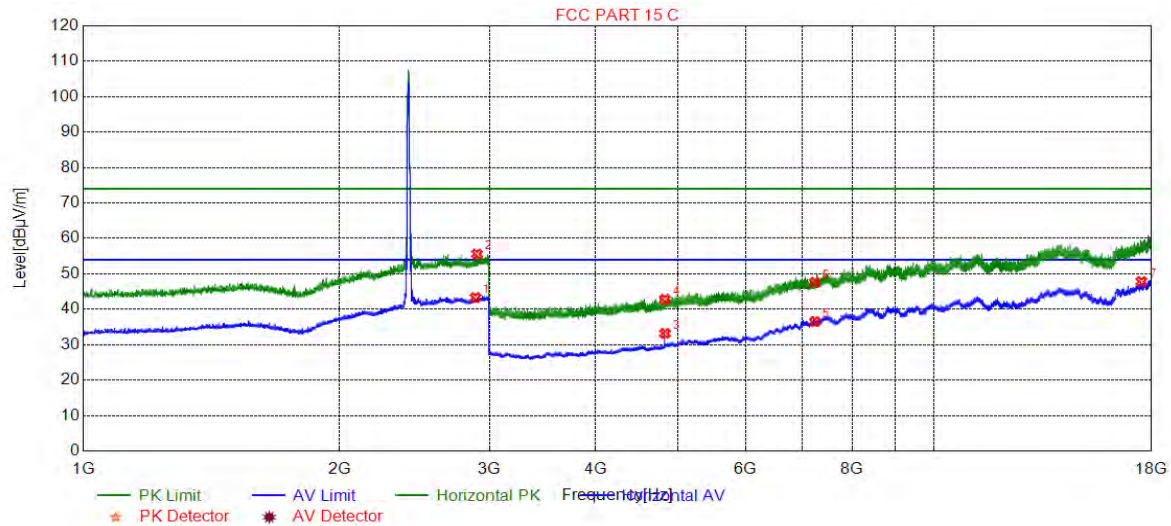
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#### 4.9.2.1.4 802.11B\_Lowest Channel\_Horizontal

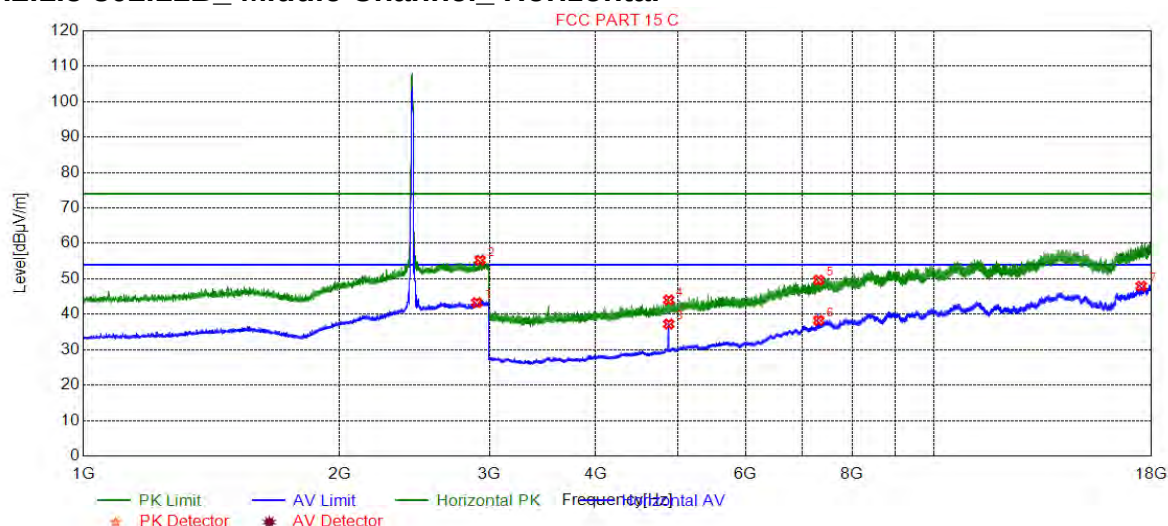


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2889.4724   | 43.30          | 9.16        | 54.00          | 10.70       | 180         | 342       | Horizontal |
| 2              | 2901.4754   | 55.60          | 9.16        | 74.00          | 18.40       | 150         | 0         | Horizontal |
| 3              | 4824.0000   | 33.19          | -18.21      | 54.00          | 20.81       | 213         | 342       | Horizontal |
| 4              | 4824.0000   | 42.81          | -18.21      | 74.00          | 31.19       | 171         | 342       | Horizontal |
| 5              | 7236.0000   | 36.50          | -9.99       | 54.00          | 17.50       | 124         | 18        | Horizontal |
| 6              | 7236.0000   | 47.60          | -9.99       | 74.00          | 26.40       | 140         | 167       | Horizontal |
| 7              | 17506.6253  | 47.84          | 1.95        | 54.00          | 6.16        | 103         | 266       | Horizontal |





#### 4.9.2.1.5 802.11B\_ Middle Channel\_ Horizontal

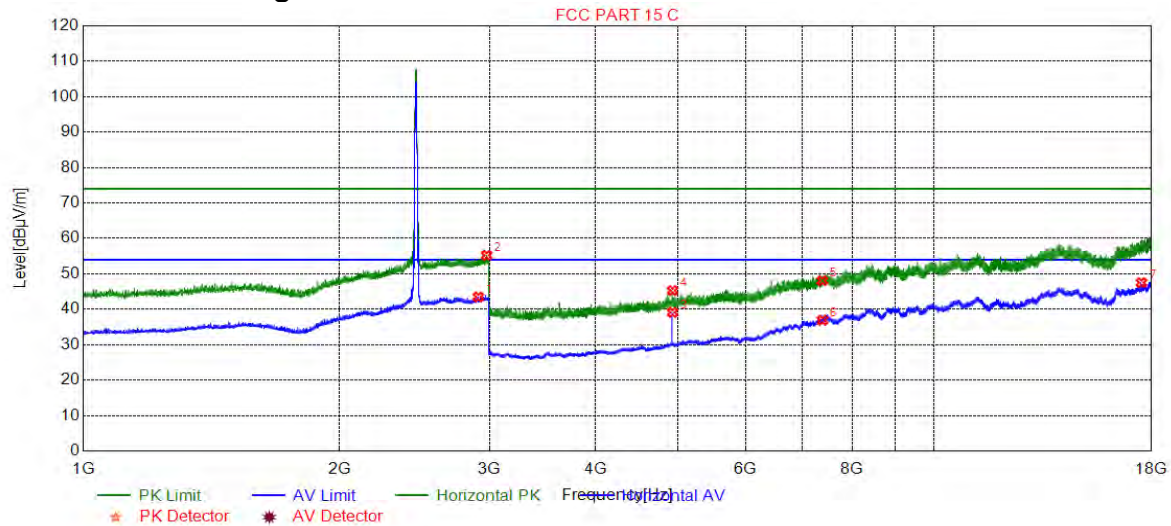


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2899.4749   | 43.30          | 9.14        | 54.00          | 10.70       | 146         | 219       | Horizontal |
| 2              | 2925.4814   | 55.29          | 9.42        | 74.00          | 18.71       | 174         | 82        | Horizontal |
| 3              | 4874.0000   | 37.25          | -17.99      | 54.00          | 16.75       | 229         | 342       | Horizontal |
| 4              | 4874.0000   | 44.04          | -17.99      | 74.00          | 29.96       | 187         | 315       | Horizontal |
| 5              | 7311.0000   | 49.63          | -9.74       | 74.00          | 24.37       | 204         | 68        | Horizontal |
| 6              | 7311.0000   | 38.26          | -9.74       | 54.00          | 15.74       | 222         | 18        | Horizontal |
| 7              | 17505.5253  | 47.94          | 1.94        | 54.00          | 6.06        | 128         | 218       | Horizontal |





#### 4.9.2.1.6 802.11B\_ Highest Channel\_ Horizontal

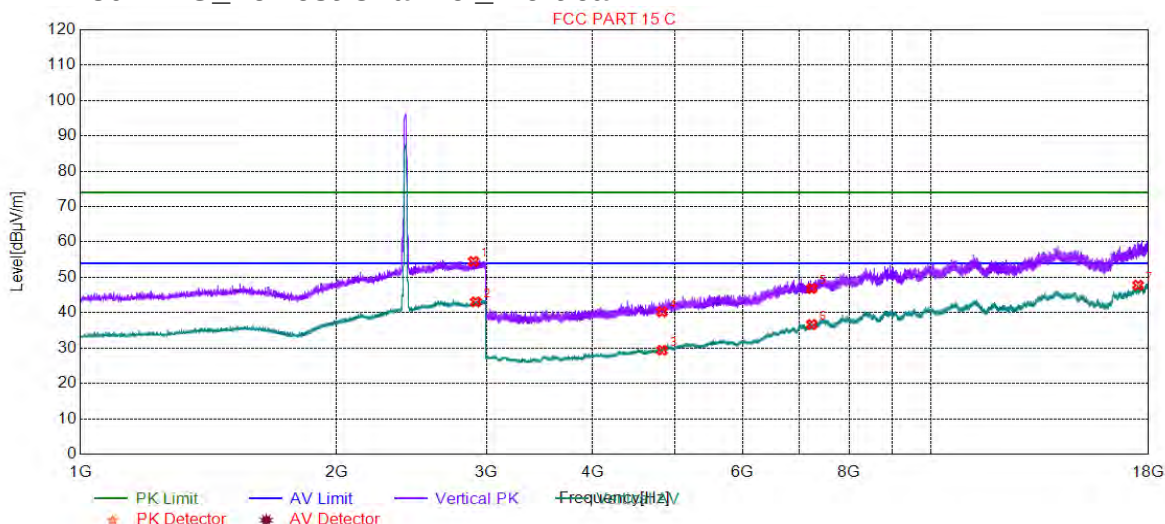


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2911.9780   | 43.47          | 9.27        | 54.00          | 10.53       | 176         | 342       | Horizontal |
| 2              | 2978.4946   | 55.23          | 9.55        | 74.00          | 18.77       | 186         | 261       | Horizontal |
| 3              | 4924.0000   | 39.12          | -17.72      | 54.00          | 14.88       | 188         | 342       | Horizontal |
| 4              | 4924.0000   | 45.25          | -17.72      | 74.00          | 28.75       | 109         | 342       | Horizontal |
| 5              | 7386.0000   | 48.05          | -9.55       | 74.00          | 25.95       | 206         | 68        | Horizontal |
| 6              | 7386.0000   | 36.90          | -9.55       | 54.00          | 17.10       | 108         | 274       | Horizontal |
| 7              | 17508.8254  | 47.53          | 1.95        | 54.00          | 6.47        | 104         | 119       | Horizontal |





#### 4.9.2.1.7 802.11G\_Lowest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2896.9742   | 54.50          | 9.15        | 74.00          | 19.50       | 214         | 59        | Vertical |
| 2              | 2915.4789   | 43.06          | 9.31        | 54.00          | 10.94       | 248         | 305       | Vertical |
| 3              | 4824.0000   | 29.39          | -18.21      | 54.00          | 24.61       | 192         | 315       | Vertical |
| 4              | 4824.0000   | 40.22          | -18.21      | 74.00          | 33.78       | 229         | 17        | Vertical |
| 5              | 7236.0000   | 46.83          | -9.99       | 74.00          | 27.17       | 260         | 268       | Vertical |
| 6              | 7236.0000   | 36.66          | -9.99       | 54.00          | 17.34       | 187         | 168       | Vertical |
| 7              | 17495.6248  | 47.78          | 1.89        | 54.00          | 6.22        | 210         | 317       | Vertical |

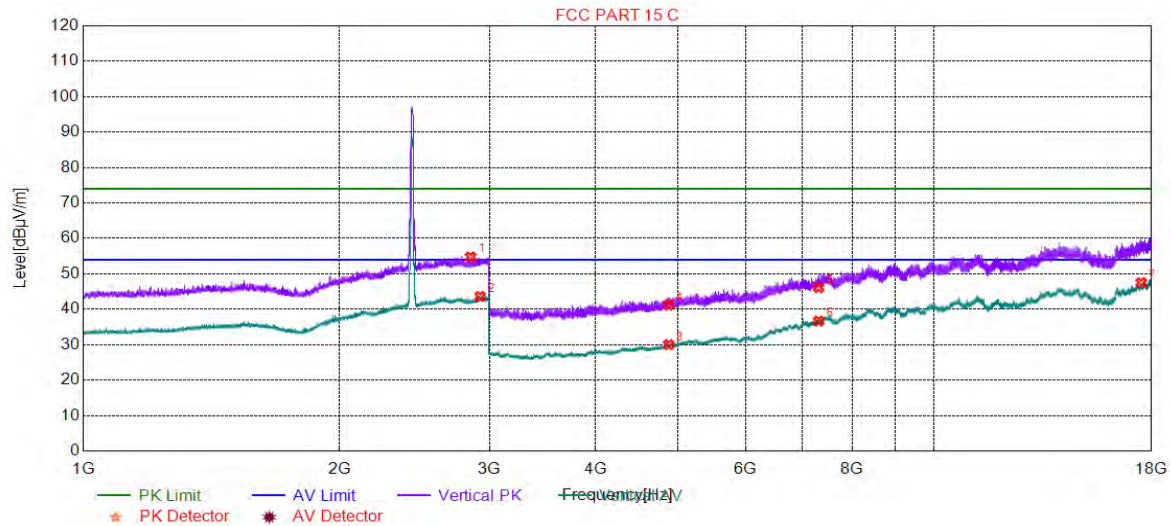


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#### 4.9.2.1.8 802.11G\_Middle Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2851.9630   | 54.79          | 9.24        | 74.00          | 19.21       | 214         | 196       | Vertical |
| 2              | 2925.9815   | 43.64          | 9.42        | 54.00          | 10.36       | 282         | 32        | Vertical |
| 3              | 4874.0000   | 30.05          | -17.99      | 54.00          | 23.95       | 296         | 0         | Vertical |
| 4              | 4874.0000   | 41.20          | -17.99      | 74.00          | 32.80       | 238         | 314       | Vertical |
| 5              | 7311.0000   | 46.13          | -9.74       | 74.00          | 27.87       | 268         | 276       | Vertical |
| 6              | 7311.0000   | 36.70          | -9.74       | 54.00          | 17.30       | 204         | 276       | Vertical |
| 7              | 17501.6751  | 47.53          | 1.93        | 54.00          | 6.47        | 254         | 72        | Vertical |



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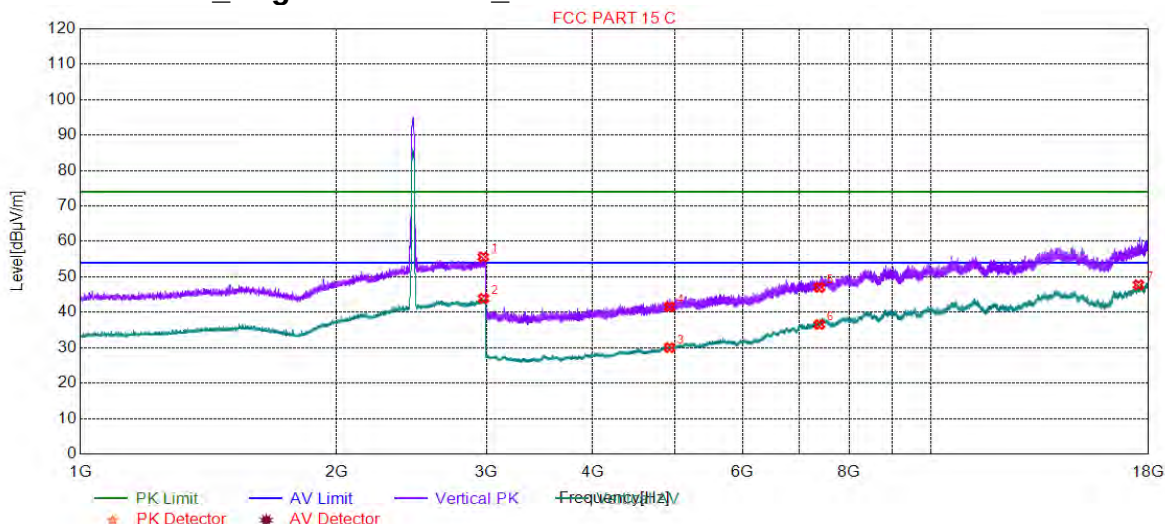
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#### 4.9.2.1.9 802.11G\_Highest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2974.4936   | 55.62          | 9.57        | 74.00          | 18.38       | 192         | 345       | Vertical |
| 2              | 2976.9942   | 43.90          | 9.56        | 54.00          | 10.10       | 177         | 168       | Vertical |
| 3              | 4924.0000   | 30.03          | -17.72      | 54.00          | 23.97       | 292         | 16        | Vertical |
| 4              | 4924.0000   | 41.55          | -17.72      | 74.00          | 32.45       | 221         | 260       | Vertical |
| 5              | 7386.0000   | 47.00          | -9.55       | 74.00          | 27.00       | 173         | 117       | Vertical |
| 6              | 7386.0000   | 36.54          | -9.55       | 54.00          | 17.46       | 287         | 18        | Vertical |
| 7              | 17515.9758  | 47.75          | 1.98        | 54.00          | 6.25        | 252         | 67        | Vertical |

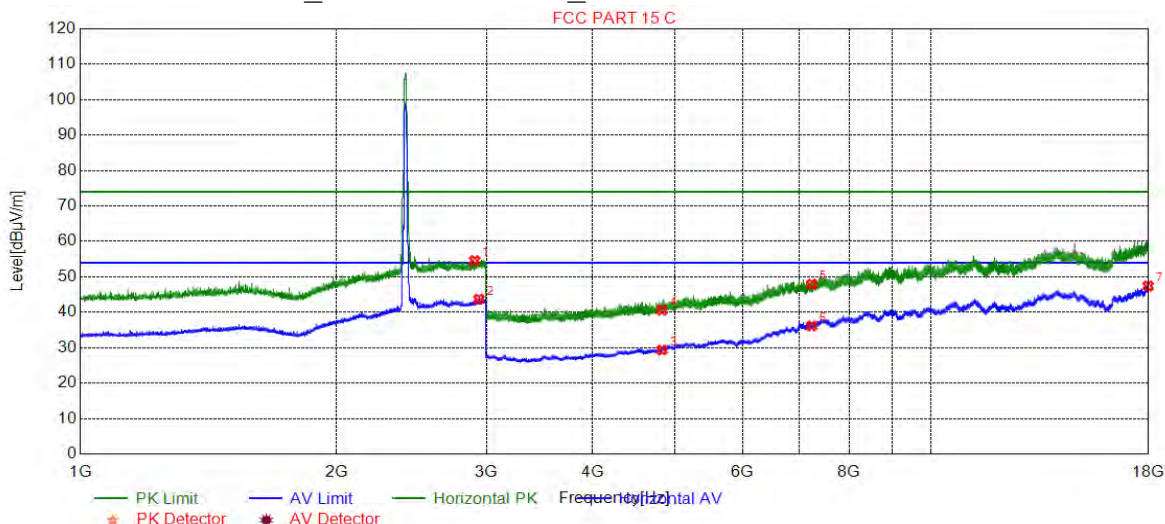


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#### 4.9.2.1.10 802.11G\_Lowest Channel\_Horizontal

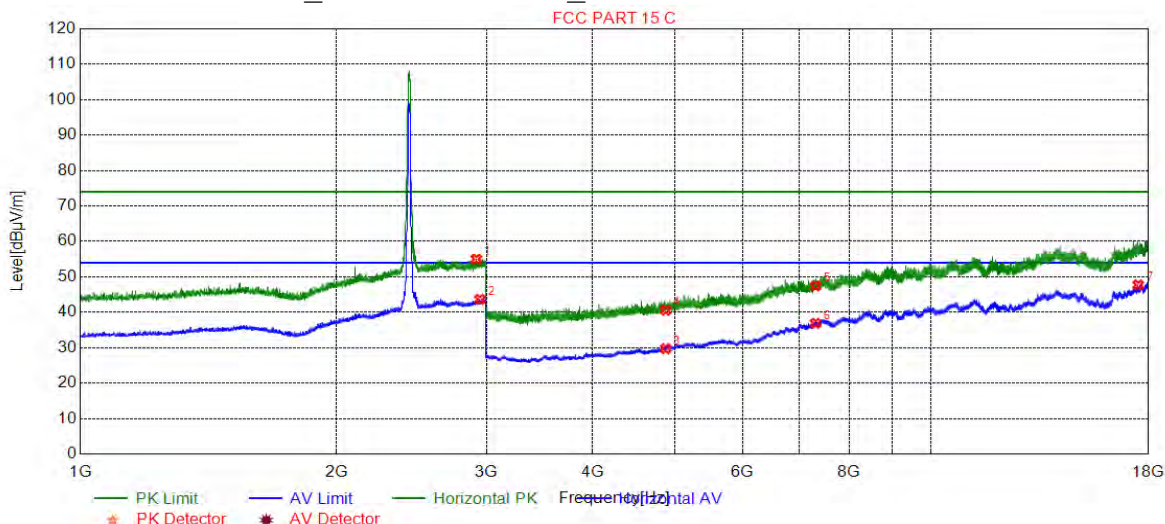


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2905.9765   | 54.57          | 9.20        | 74.00          | 19.43       | 200         | 15        | Horizontal |
| 2              | 2939.9850   | 43.73          | 9.57        | 54.00          | 10.27       | 236         | 152       | Horizontal |
| 3              | 4824.0000   | 29.35          | -18.21      | 54.00          | 24.65       | 133         | 342       | Horizontal |
| 4              | 4824.0000   | 40.59          | -18.21      | 74.00          | 33.41       | 241         | 71        | Horizontal |
| 5              | 7236.0000   | 47.94          | -9.99       | 74.00          | 26.06       | 133         | 67        | Horizontal |
| 6              | 7236.0000   | 36.17          | -9.99       | 54.00          | 17.83       | 223         | 359       | Horizontal |
| 7              | 17977.9989  | 47.42          | 1.71        | 54.00          | 6.58        | 171         | 359       | Horizontal |





#### 4.9.2.1.11 802.11G\_ Middle Channel\_ Horizontal



| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2919.4799   | 55.01          | 9.35        | 74.00          | 18.99       | 156         | 342       | Horizontal |
| 2              | 2948.4871   | 43.66          | 9.66        | 54.00          | 10.34       | 133         | 246       | Horizontal |
| 3              | 4874.0000   | 29.76          | -17.99      | 54.00          | 24.24       | 202         | 179       | Horizontal |
| 4              | 4874.0000   | 40.57          | -17.99      | 74.00          | 33.43       | 113         | 206       | Horizontal |
| 5              | 7311.0000   | 47.43          | -9.74       | 74.00          | 26.57       | 153         | 18        | Horizontal |
| 6              | 7311.0000   | 36.90          | -9.74       | 54.00          | 17.10       | 104         | 315       | Horizontal |
| 7              | 17503.8752  | 47.74          | 1.94        | 54.00          | 6.26        | 188         | 216       | Horizontal |



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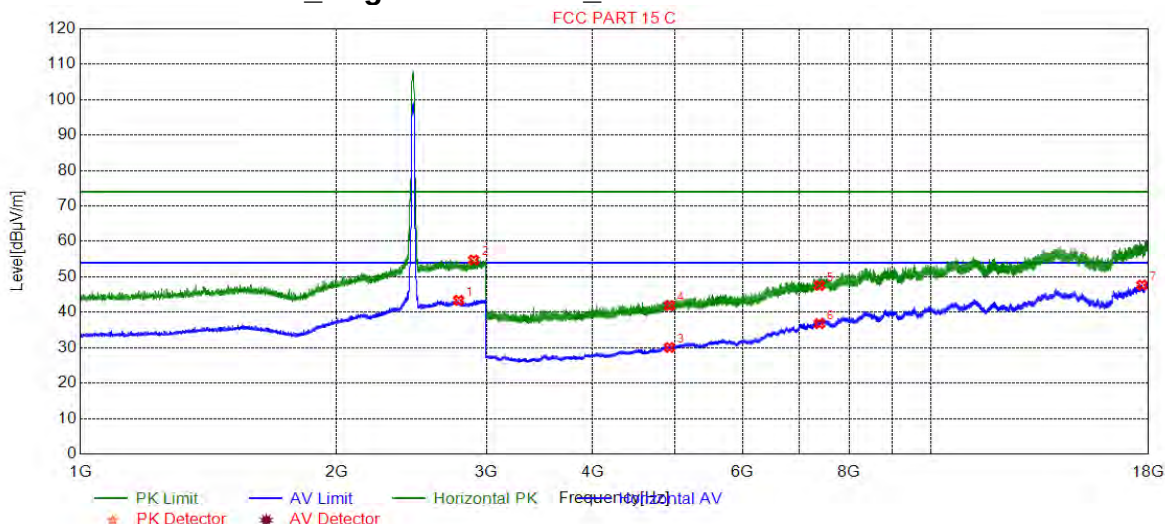
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#### 4.9.2.1.12 802.11G\_Highest Channel\_Horizontal

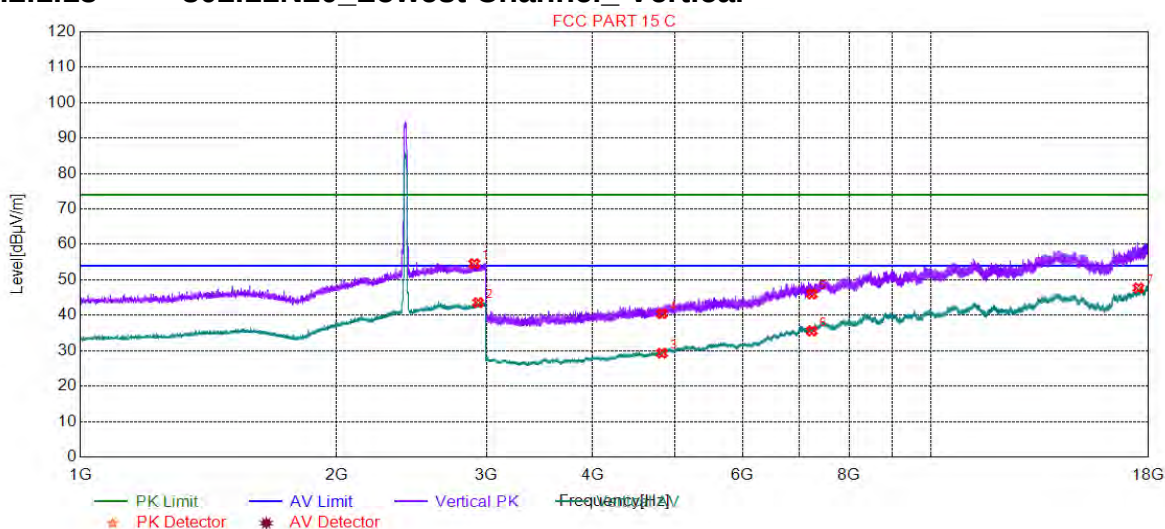


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2782.9457   | 43.36          | 9.02        | 54.00          | 10.64       | 184         | 17        | Horizontal |
| 2              | 2898.9747   | 54.78          | 9.14        | 74.00          | 19.22       | 227         | 276       | Horizontal |
| 3              | 4924.0000   | 30.08          | -17.72      | 54.00          | 23.92       | 190         | 178       | Horizontal |
| 4              | 4924.0000   | 41.89          | -17.72      | 74.00          | 32.11       | 192         | 44        | Horizontal |
| 5              | 7386.0000   | 47.58          | -9.55       | 74.00          | 26.42       | 189         | 217       | Horizontal |
| 6              | 7386.0000   | 36.80          | -9.55       | 54.00          | 17.20       | 115         | 267       | Horizontal |
| 7              | 17685.3843  | 47.70          | 2.35        | 54.00          | 6.30        | 201         | 18        | Horizontal |





#### 4.9.2.1.13 802.11N20\_Lowest Channel\_Vertical

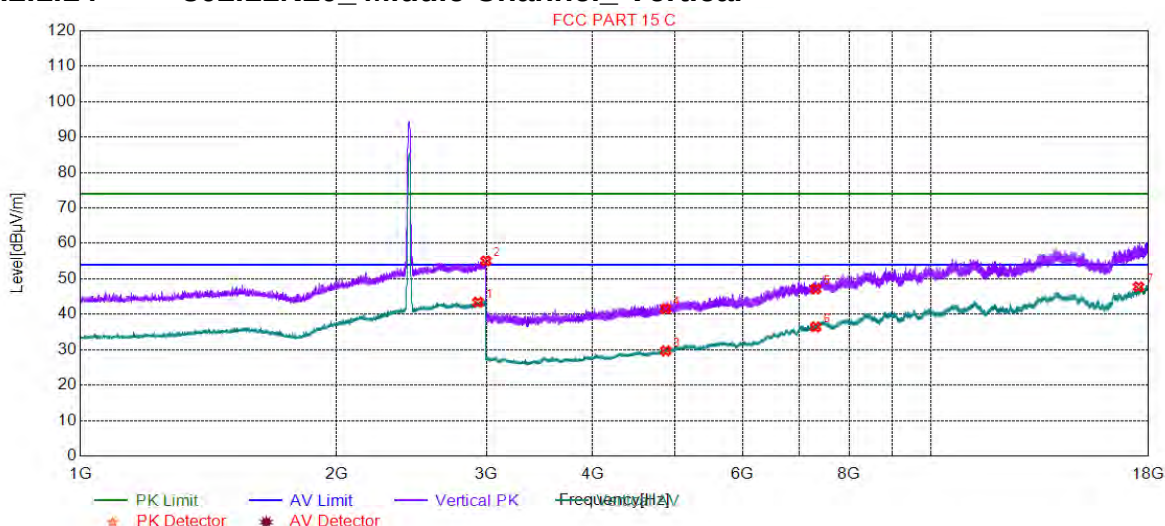


#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 2903.9760   | 54.57          | 9.18        | 74.00          | 19.43       | 180         | 100       | Vertical |
| 2   | 2933.9835   | 43.56          | 9.51        | 54.00          | 10.44       | 250         | 168       | Vertical |
| 3   | 4824.0000   | 29.31          | -18.21      | 54.00          | 24.69       | 154         | 0         | Vertical |
| 4   | 4824.0000   | 40.44          | -18.21      | 74.00          | 33.56       | 237         | 288       | Vertical |
| 5   | 7236.0000   | 46.04          | -9.99       | 74.00          | 27.96       | 169         | 167       | Vertical |
| 6   | 7236.0000   | 35.57          | -9.99       | 54.00          | 18.43       | 231         | 18        | Vertical |
| 7   | 17512.6756  | 47.71          | 1.97        | 54.00          | 6.29        | 187         | 118       | Vertical |



#### 4.9.2.1.14 802.11N20\_Middle Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2932.4831   | 43.39          | 9.49        | 54.00          | 10.61       | 236         | 302       | Vertical |
| 2              | 2996.4991   | 55.08          | 9.47        | 74.00          | 18.92       | 206         | 275       | Vertical |
| 3              | 4874.0000   | 29.69          | -17.99      | 54.00          | 24.31       | 181         | 207       | Vertical |
| 4              | 4874.0000   | 41.57          | -17.99      | 74.00          | 32.43       | 220         | 44        | Vertical |
| 5              | 7311.0000   | 47.12          | -9.74       | 74.00          | 26.88       | 267         | 217       | Vertical |
| 6              | 7311.0000   | 36.41          | -9.74       | 54.00          | 17.59       | 288         | 68        | Vertical |
| 7              | 17515.4258  | 47.75          | 1.98        | 54.00          | 6.25        | 183         | 118       | Vertical |



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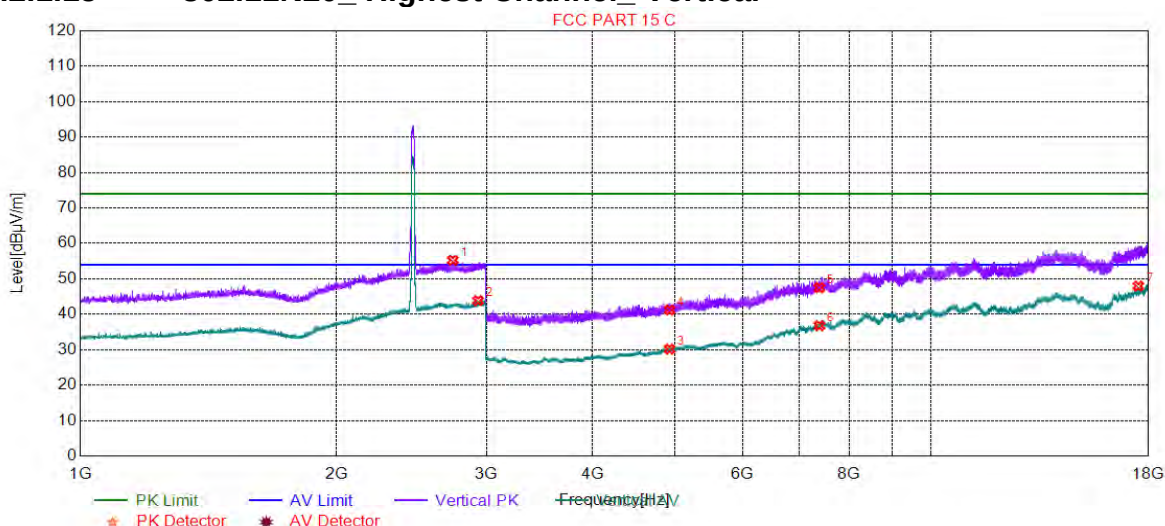
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#### 4.9.2.1.15 802.11N20\_Highest Channel\_Vertical

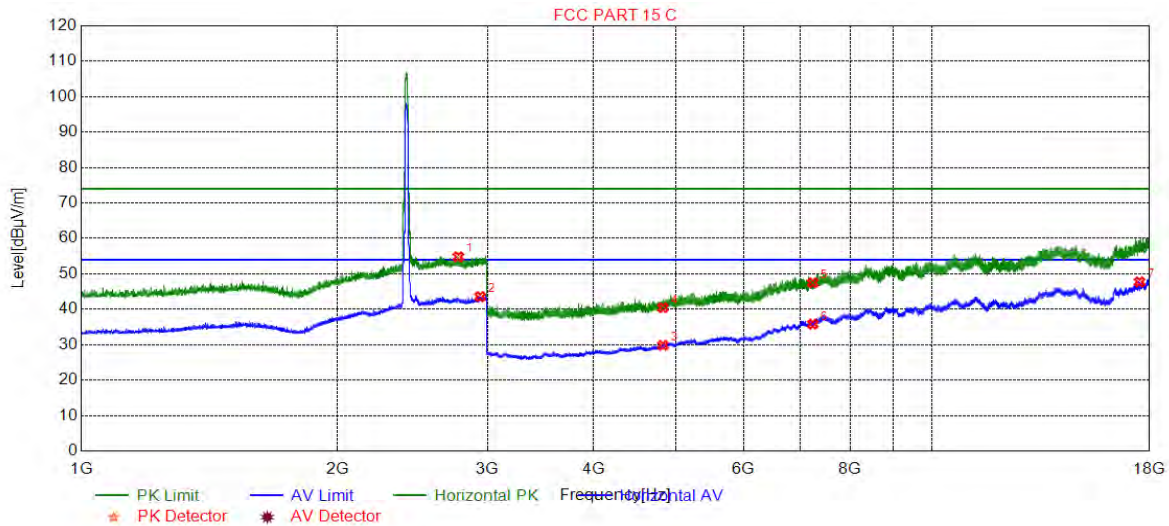


| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2739.4349   | 55.28          | 9.00        | 74.00          | 18.72       | 219         | 318       | Vertical |
| 2              | 2932.9832   | 43.87          | 9.50        | 54.00          | 10.13       | 277         | 236       | Vertical |
| 3              | 4924.0000   | 30.16          | -17.72      | 54.00          | 23.84       | 292         | 0         | Vertical |
| 4              | 4924.0000   | 41.22          | -17.72      | 74.00          | 32.78       | 161         | 342       | Vertical |
| 5              | 7386.0000   | 47.49          | -9.55       | 74.00          | 26.51       | 207         | 167       | Vertical |
| 6              | 7386.0000   | 36.78          | -9.55       | 54.00          | 17.22       | 259         | 68        | Vertical |
| 7              | 17506.0753  | 47.95          | 1.94        | 54.00          | 6.05        | 242         | 267       | Vertical |





4.9.2.1.16 802.11N20\_Lowest Channel\_Horizontal



| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2773.4434   | 54.82          | 9.05        | 74.00          | 19.18       | 101         | 342       | Horizontal |
| 2              | 2941.4854   | 43.57          | 9.59        | 54.00          | 10.43       | 145         | 274       | Horizontal |
| 3              | 4824.0000   | 29.82          | -18.21      | 54.00          | 24.18       | 173         | 124       | Horizontal |
| 4              | 4824.0000   | 40.44          | -18.21      | 74.00          | 33.56       | 124         | 0         | Horizontal |
| 5              | 7236.0000   | 47.48          | -9.99       | 74.00          | 26.52       | 198         | 169       | Horizontal |
| 6              | 7236.0000   | 35.82          | -9.99       | 54.00          | 18.18       | 181         | 219       | Horizontal |
| 7              | 17517.0759  | 47.73          | 1.99        | 54.00          | 6.27        | 214         | 169       | Horizontal |

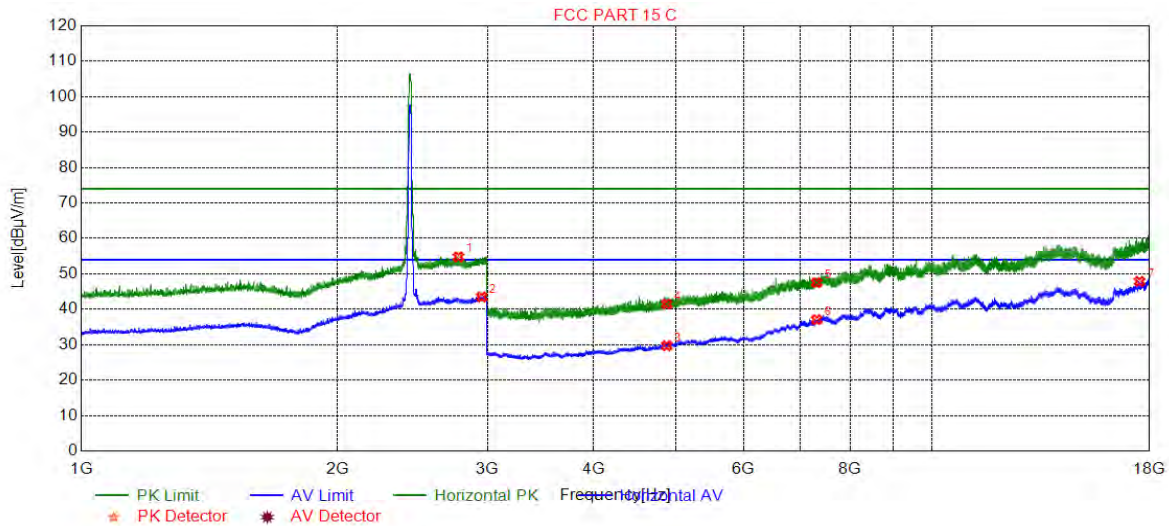


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4.9.2.1.17 802.11N20\_Middle Channel\_Horizontal

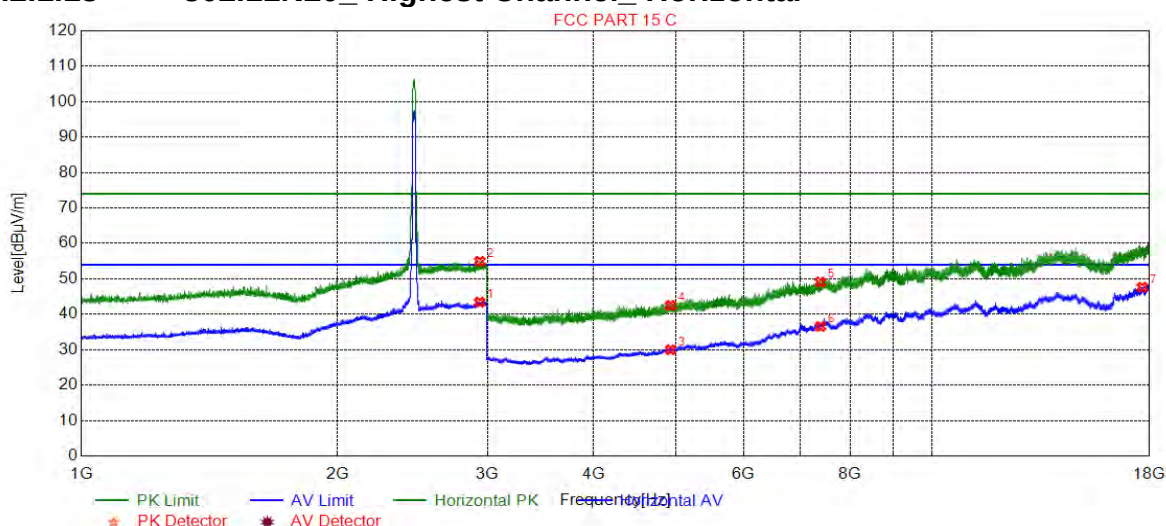


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2773.9435   | 54.79          | 9.05        | 74.00          | 19.21       | 128         | 3         | Horizontal |
| 2              | 2954.4886   | 43.48          | 9.66        | 54.00          | 10.52       | 168         | 220       | Horizontal |
| 3              | 4874.0000   | 29.72          | -17.99      | 54.00          | 24.28       | 220         | 98        | Horizontal |
| 4              | 4874.0000   | 41.49          | -17.99      | 74.00          | 32.51       | 152         | 342       | Horizontal |
| 5              | 7311.0000   | 47.53          | -9.74       | 74.00          | 26.47       | 248         | 359       | Horizontal |
| 6              | 7311.0000   | 37.06          | -9.74       | 54.00          | 16.94       | 144         | 217       | Horizontal |
| 7              | 17518.1759  | 47.87          | 1.99        | 54.00          | 6.13        | 176         | 18        | Horizontal |





4.9.2.1.18 802.11N20\_Highest Channel\_Horizontal

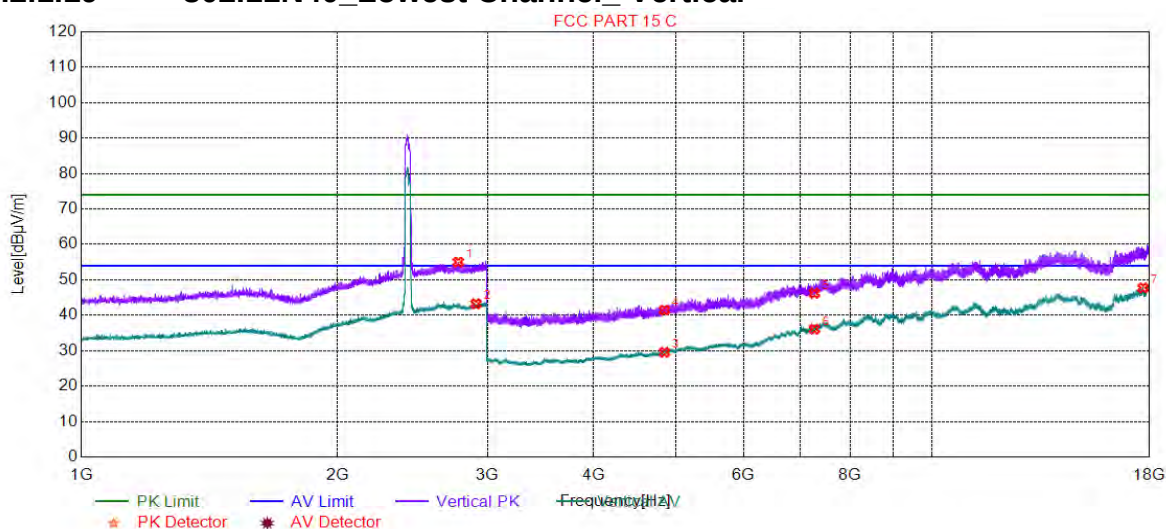


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2937.4844   | 43.41          | 9.54        | 54.00          | 10.59       | 101         | 194       | Horizontal |
| 2              | 2938.9847   | 54.93          | 9.56        | 74.00          | 19.07       | 145         | 194       | Horizontal |
| 3              | 4924.0000   | 30.00          | -17.72      | 54.00          | 24.00       | 173         | 179       | Horizontal |
| 4              | 4924.0000   | 42.49          | -17.72      | 74.00          | 31.51       | 124         | 260       | Horizontal |
| 5              | 7386.0000   | 49.09          | -9.55       | 74.00          | 24.91       | 198         | 359       | Horizontal |
| 6              | 7386.0000   | 36.57          | -9.55       | 54.00          | 17.43       | 181         | 267       | Horizontal |
| 7              | 17645.7823  | 47.63          | 2.33        | 54.00          | 6.37        | 214         | 18        | Horizontal |





#### 4.9.2.1.19 802.11N40\_Lowest Channel\_Vertical



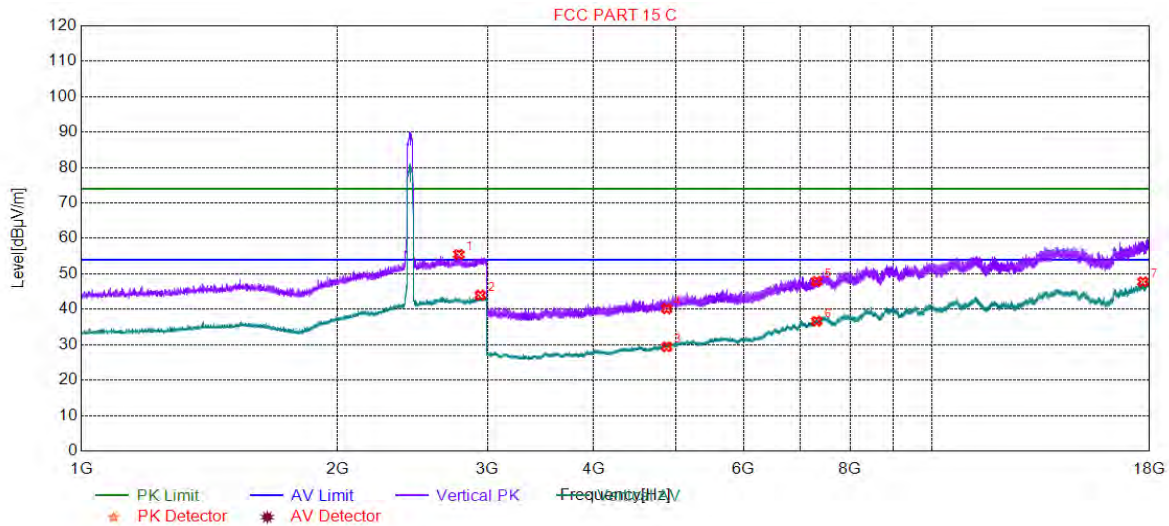
#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| 1   | 2772.9432   | 55.02          | 9.05        | 74.00          | 18.98       | 231         | 154       | Vertical |
| 2   | 2908.4771   | 43.26          | 9.23        | 54.00          | 10.74       | 188         | 194       | Vertical |
| 3   | 4844.0000   | 29.56          | -18.13      | 54.00          | 24.44       | 211         | 44        | Vertical |
| 4   | 4844.0000   | 41.46          | -18.13      | 74.00          | 32.54       | 278         | 0         | Vertical |
| 5   | 7266.0000   | 46.24          | -9.88       | 74.00          | 27.76       | 213         | 217       | Vertical |
| 6   | 7266.0000   | 36.10          | -9.88       | 54.00          | 17.90       | 195         | 117       | Vertical |
| 7   | 17685.9343  | 47.73          | 2.35        | 54.00          | 6.27        | 201         | 217       | Vertical |





4.9.2.1.20 802.11N40\_Middle Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2776.4441   | 55.50          | 9.04        | 74.00          | 18.50       | 205         | 345       | Vertical |
| 2              | 2942.4856   | 43.97          | 9.60        | 54.00          | 10.03       | 182         | 140       | Vertical |
| 3              | 4874.0000   | 29.42          | -17.99      | 54.00          | 24.58       | 269         | 71        | Vertical |
| 4              | 4874.0000   | 40.16          | -17.99      | 74.00          | 33.84       | 177         | 0         | Vertical |
| 5              | 7311.0000   | 47.86          | -9.74       | 74.00          | 26.14       | 191         | 317       | Vertical |
| 6              | 7311.0000   | 36.63          | -9.74       | 54.00          | 17.37       | 197         | 267       | Vertical |
| 7              | 17677.1339  | 47.74          | 2.35        | 54.00          | 6.26        | 220         | 118       | Vertical |

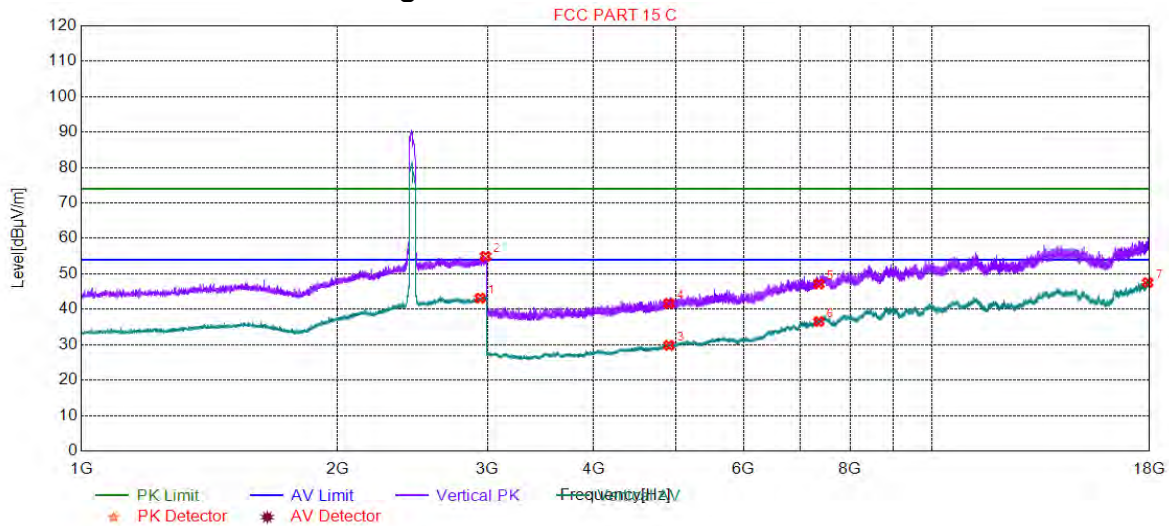


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4.9.2.1.21 802.11N40\_Highest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2941.4854   | 43.15          | 9.59        | 54.00          | 10.85       | 273         | 139       | Vertical |
| 2              | 2985.9965   | 54.93          | 9.51        | 74.00          | 19.07       | 294         | 261       | Vertical |
| 3              | 4904.0000   | 29.81          | -17.85      | 54.00          | 24.19       | 159         | 234       | Vertical |
| 4              | 4904.0000   | 41.65          | -17.85      | 74.00          | 32.35       | 289         | 288       | Vertical |
| 5              | 7356.0000   | 47.17          | -9.62       | 74.00          | 26.83       | 277         | 360       | Vertical |
| 6              | 7356.0000   | 36.52          | -9.62       | 54.00          | 17.48       | 214         | 68        | Vertical |
| 7              | 17907.5954  | 47.55          | 1.69        | 54.00          | 6.45        | 246         | 168       | Vertical |



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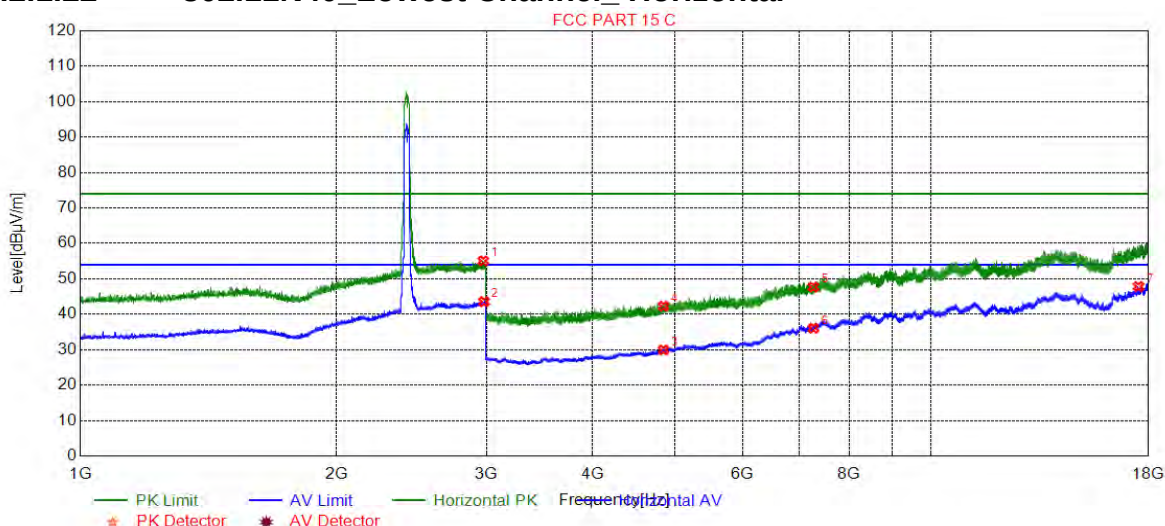
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4.9.2.1.22 802.11N40\_Lowest Channel\_Horizontal

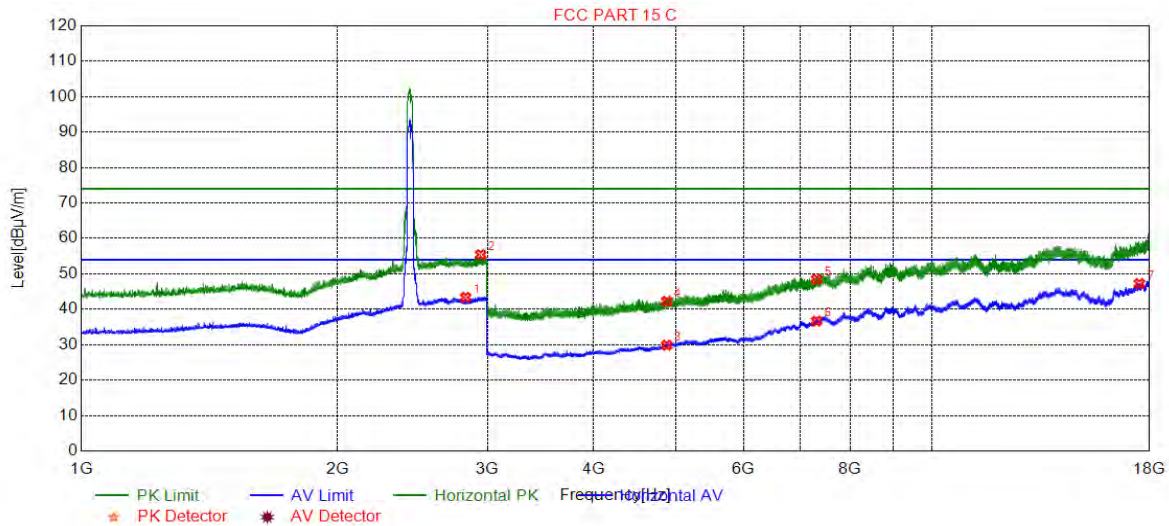


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2974.4936   | 55.08          | 9.57        | 74.00          | 18.92       | 119         | 29        | Horizontal |
| 2              | 2980.9952   | 43.54          | 9.54        | 54.00          | 10.46       | 213         | 315       | Horizontal |
| 3              | 4844.0000   | 29.93          | -18.13      | 54.00          | 24.07       | 161         | 45        | Horizontal |
| 4              | 4844.0000   | 42.28          | -18.13      | 74.00          | 31.72       | 149         | 234       | Horizontal |
| 5              | 7266.0000   | 47.69          | -9.88       | 74.00          | 26.31       | 130         | 67        | Horizontal |
| 6              | 7266.0000   | 36.06          | -9.88       | 54.00          | 17.94       | 129         | 118       | Horizontal |
| 7              | 17517.6259  | 47.84          | 1.99        | 54.00          | 6.16        | 189         | 317       | Horizontal |





4.9.2.1.23 802.11N40\_Middle Channel\_Horizontal



| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2828.4571   | 43.36          | 9.13        | 54.00          | 10.64       | 245         | 54        | Horizontal |
| 2              | 2946.4866   | 55.42          | 9.64        | 74.00          | 18.58       | 167         | 27        | Horizontal |
| 3              | 4874.0000   | 29.87          | -17.99      | 54.00          | 24.13       | 176         | 260       | Horizontal |
| 4              | 4874.0000   | 42.25          | -17.99      | 74.00          | 31.75       | 148         | 72        | Horizontal |
| 5              | 7311.0000   | 48.45          | -9.74       | 74.00          | 25.55       | 105         | 166       | Horizontal |
| 6              | 7311.0000   | 36.68          | -9.74       | 54.00          | 17.32       | 225         | 18        | Horizontal |
| 7              | 17508.8254  | 47.25          | 1.95        | 54.00          | 6.75        | 220         | 68        | Horizontal |

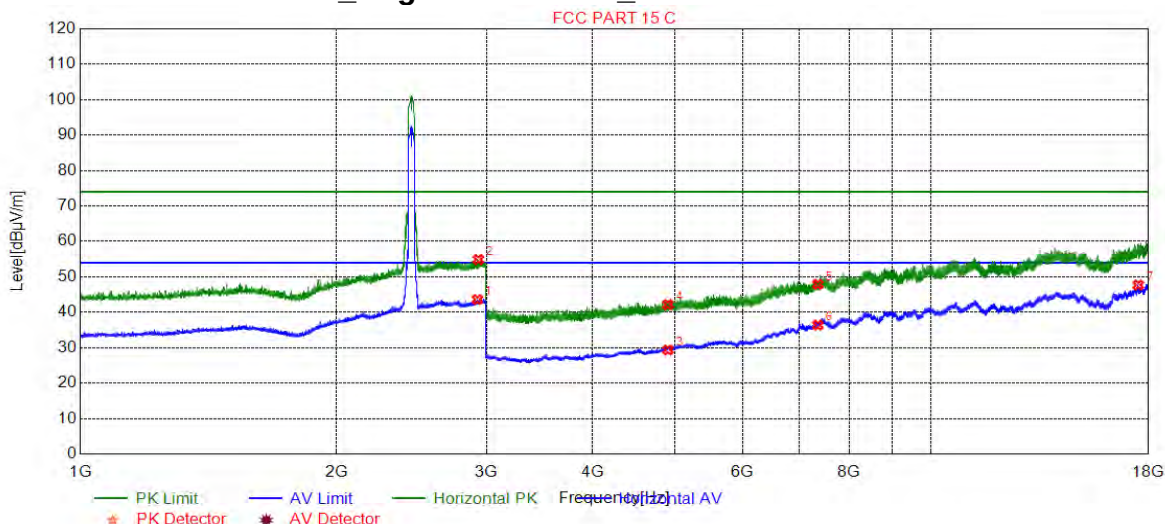


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4.9.2.1.24 802.11N40\_Highest Channel\_Horizontal



| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2927.9820   | 43.59          | 9.44        | 54.00          | 10.41       | 148         | 2         | Horizontal |
| 2              | 2935.4839   | 54.90          | 9.52        | 74.00          | 19.10       | 116         | 67        | Horizontal |
| 3              | 4904.0000   | 29.37          | -17.85      | 54.00          | 24.63       | 126         | 137       | Horizontal |
| 4              | 4904.0000   | 42.17          | -17.85      | 74.00          | 31.83       | 133         | 169       | Horizontal |
| 5              | 7356.0000   | 47.88          | -9.62       | 74.00          | 26.12       | 195         | 360       | Horizontal |
| 6              | 7356.0000   | 36.39          | -9.62       | 54.00          | 17.61       | 241         | 360       | Horizontal |
| 7              | 17504.4252  | 47.70          | 1.94        | 54.00          | 6.30        | 112         | 119       | Horizontal |

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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## 4.10 Restricted bands around fundamental frequency

|                   |                                                         |                    |                  |
|-------------------|---------------------------------------------------------|--------------------|------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205               |                    |                  |
| Test Method:      | ANSI C63.10: 2013 Section 11.12                         |                    |                  |
| Test Site:        | Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) |                    |                  |
| Limit:            | Frequency                                               | Limit (dBuV/m @3m) | Remark           |
|                   | 30MHz-88MHz                                             | 40.0               | Quasi-peak Value |
|                   | 88MHz-216MHz                                            | 43.5               | Quasi-peak Value |
|                   | 216MHz-960MHz                                           | 46.0               | Quasi-peak Value |
|                   | 960MHz-1GHz                                             | 54.0               | Quasi-peak Value |
|                   | Above 1GHz                                              | 54.0               | Average Value    |
|                   |                                                         | 74.0               | Peak Value       |
| Test Setup:       |                                                         |                    |                  |

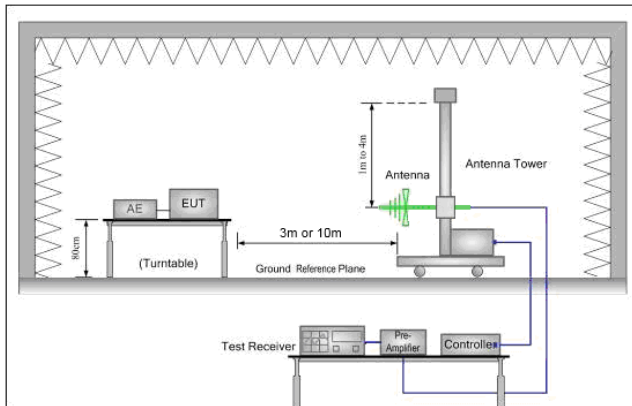


Figure 1. 30MHz to 1GHz

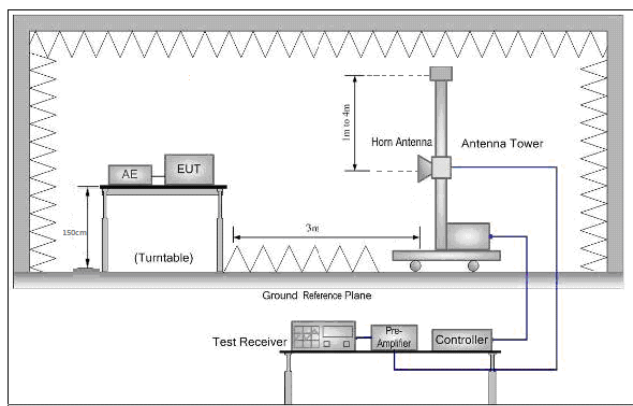


Figure 2. Above 1 GHz



|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:        | <p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p> |
| Exploratory Test Mode: | <p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Final Test Mode:       | <p>Pretest the EUT at Charge +Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>1Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G ;</p> <p>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11N(HT40).</p> <p>Only the worst case is recorded in the report.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Instruments Used:      | Refer to section 6 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



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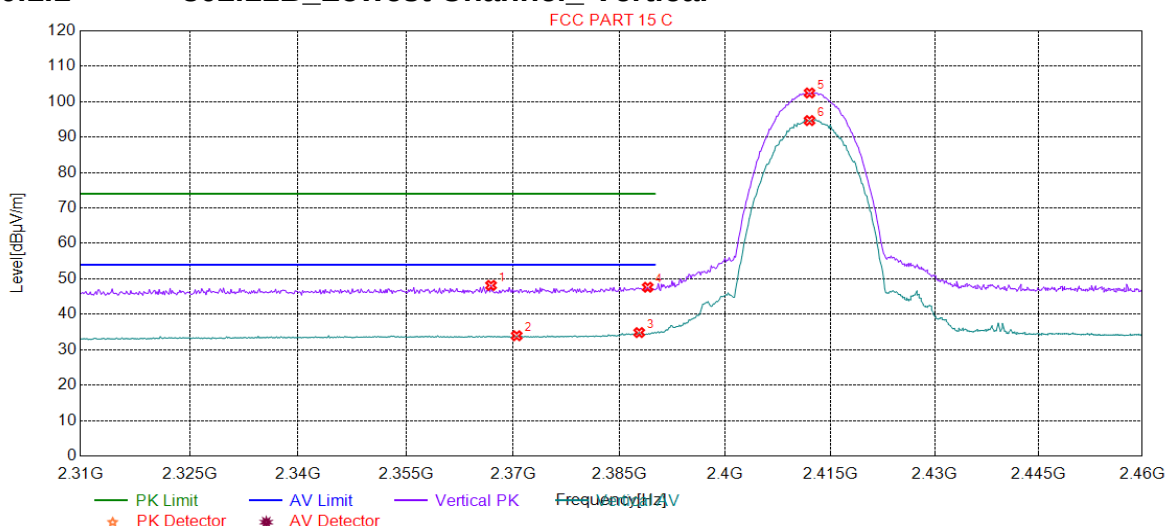
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Test plot as follows:

#### 4.10.1 ANT1

##### 4.10.1.1 802.11B\_Lowest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2366.9069   | 48.16          | 7.79        | 74.00          | 25.84       | 199         | 100       | Vertical |
| 2              | 2370.5105   | 33.95          | 7.79        | 54.00          | 20.05       | 222         | 29        | Vertical |
| 3              | 2387.7778   | 34.84          | 7.77        | 54.00          | 19.16       | 256         | 274       | Vertical |
| 4              | 2388.9790   | 47.64          | 7.77        | 74.00          | 26.36       | 230         | 294       | Vertical |
| 5              | 2412.0000   | 102.46         | 7.81        | 0.00           | -102.46     | 181         | 227       | Vertical |
| 6              | 2412.0000   | 94.67          | 7.81        | 0.00           | -94.67      | 232         | 223       | Vertical |

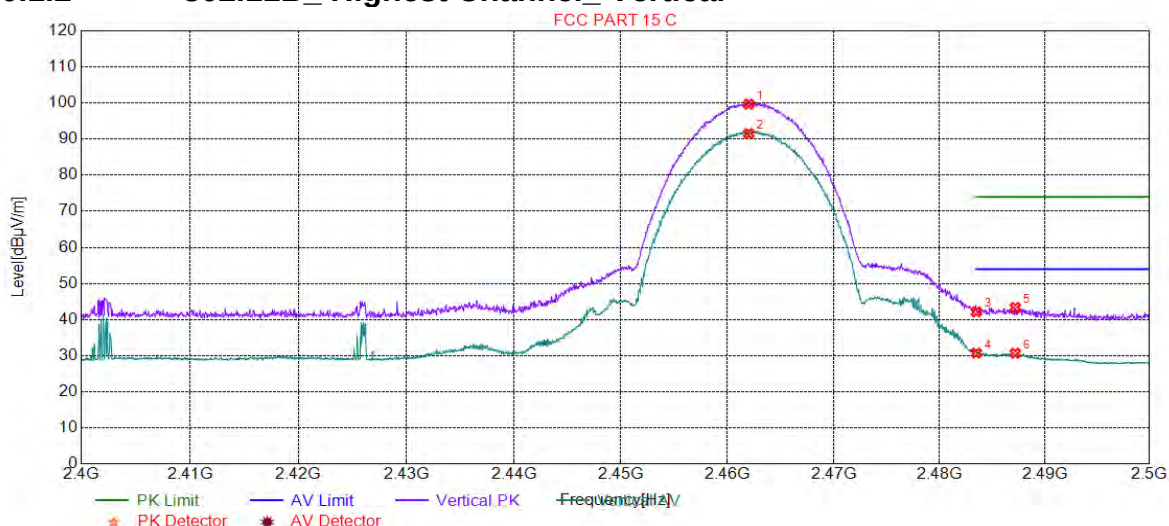


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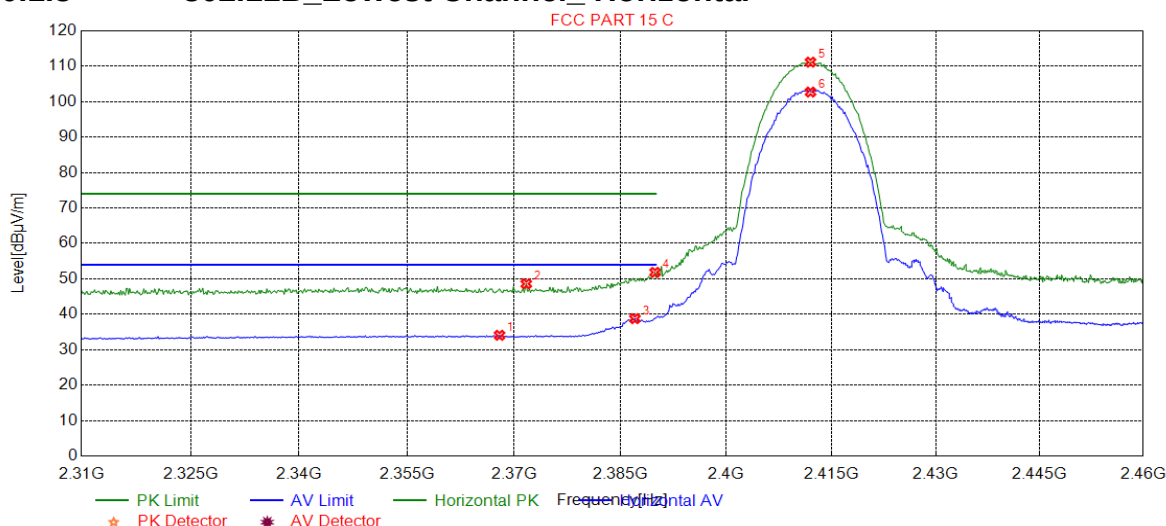
#### 4.10.1.2 802.11B\_Highest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2462.0000   | 99.70          | 7.98        | 0.00           | -99.70      | 219         | 62        | Vertical |
| 2              | 2462.0000   | 91.52          | 7.98        | 0.00           | -91.52      | 186         | 62        | Vertical |
| 3              | 2483.5000   | 42.15          | 8.01        | 74.00          | 31.85       | 282         | 106       | Vertical |
| 4              | 2483.5000   | 30.72          | 8.01        | 54.00          | 23.28       | 202         | 89        | Vertical |
| 5              | 2487.1936   | 43.37          | 8.01        | 74.00          | 30.63       | 221         | 315       | Vertical |
| 6              | 2487.1936   | 30.68          | 8.01        | 54.00          | 23.32       | 286         | 94        | Vertical |



#### 4.10.1.3 802.11B\_Lowest Channel\_Horizontal

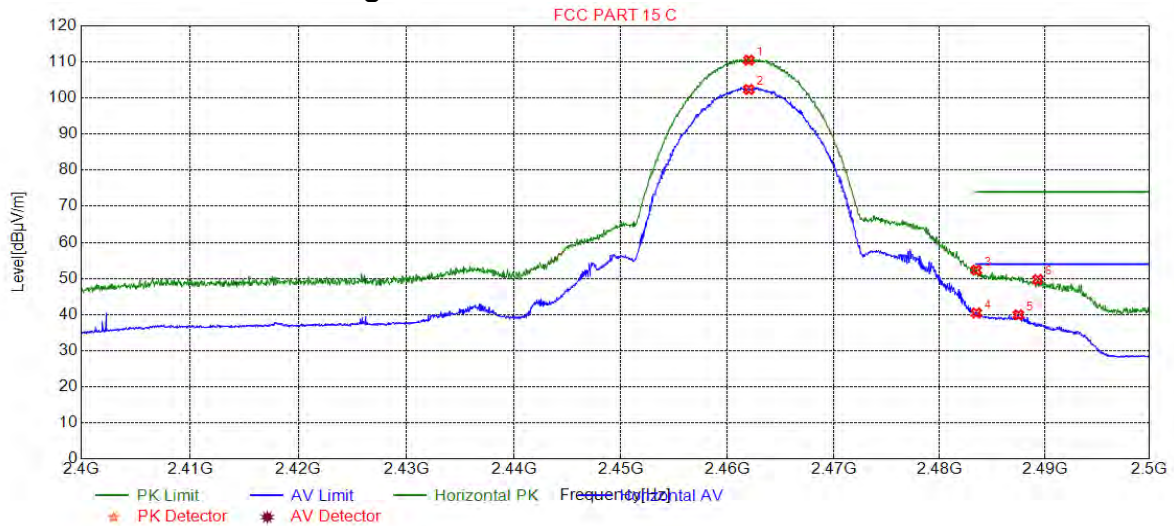


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2367.9580   | 34.08          | 7.79        | 54.00          | 19.92       | 161         | 107       | Horizontal |
| 2              | 2371.7117   | 48.60          | 7.79        | 74.00          | 25.40       | 140         | 360       | Horizontal |
| 3              | 2387.0270   | 38.76          | 7.77        | 54.00          | 15.24       | 217         | 338       | Horizontal |
| 4              | 2389.8799   | 51.84          | 7.77        | 74.00          | 22.16       | 143         | 354       | Horizontal |
| 5              | 2412.0000   | 111.16         | 7.81        | 0.00           | -111.16     | 121         | 342       | Horizontal |
| 6              | 2412.0000   | 102.72         | 7.81        | 0.00           | -102.72     | 157         | 338       | Horizontal |





#### 4.10.1.4 802.11B\_Highest Channel\_Horizontal



#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 2462.0000   | 110.48         | 7.98        | 0.00           | -110.48     | 172         | 346       | Horizontal |
| 2   | 2462.0000   | 102.36         | 7.98        | 0.00           | -102.36     | 109         | 346       | Horizontal |
| 3   | 2483.5000   | 52.30          | 8.01        | 74.00          | 21.70       | 155         | 346       | Horizontal |
| 4   | 2483.5000   | 40.44          | 8.01        | 54.00          | 13.56       | 234         | 346       | Horizontal |
| 5   | 2487.4937   | 39.93          | 8.01        | 54.00          | 14.07       | 209         | 346       | Horizontal |
| 6   | 2489.3447   | 49.70          | 8.02        | 74.00          | 24.30       | 156         | 188       | Horizontal |



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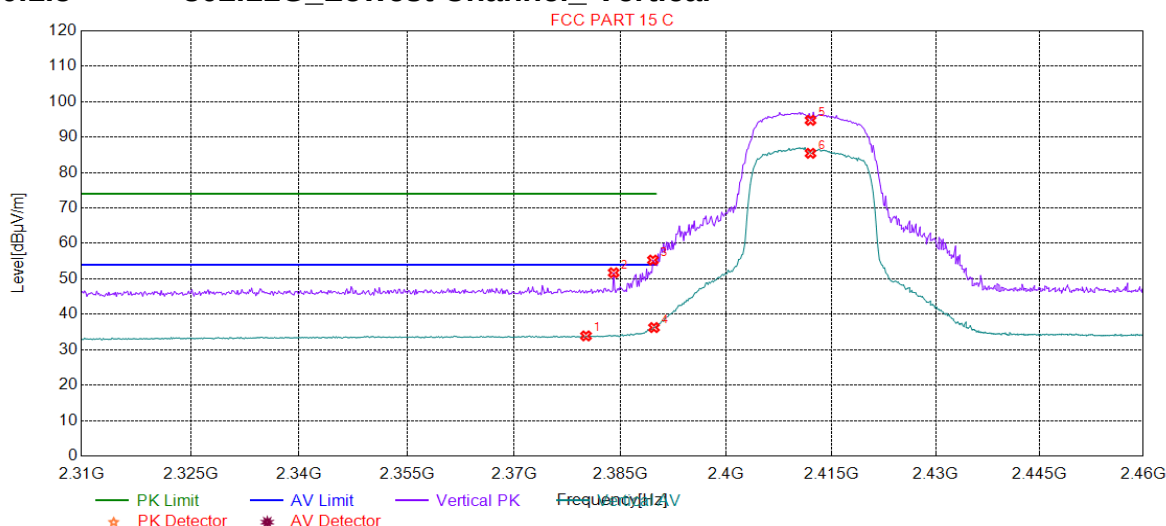
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#### 4.10.1.5 802.11G\_Lowest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2380.1201   | 33.91          | 7.78        | 54.00          | 20.09       | 260         | 123       | Vertical |
| 2              | 2384.0240   | 51.72          | 7.78        | 74.00          | 22.28       | 188         | 119       | Vertical |
| 3              | 2389.5796   | 55.30          | 7.77        | 74.00          | 18.70       | 179         | 82        | Vertical |
| 4              | 2389.7297   | 36.26          | 7.77        | 54.00          | 17.74       | 207         | 102       | Vertical |
| 5              | 2412.0000   | 94.74          | 7.81        | 0.00           | -94.74      | 285         | 119       | Vertical |
| 6              | 2412.0000   | 85.43          | 7.81        | 0.00           | -85.43      | 247         | 123       | Vertical |



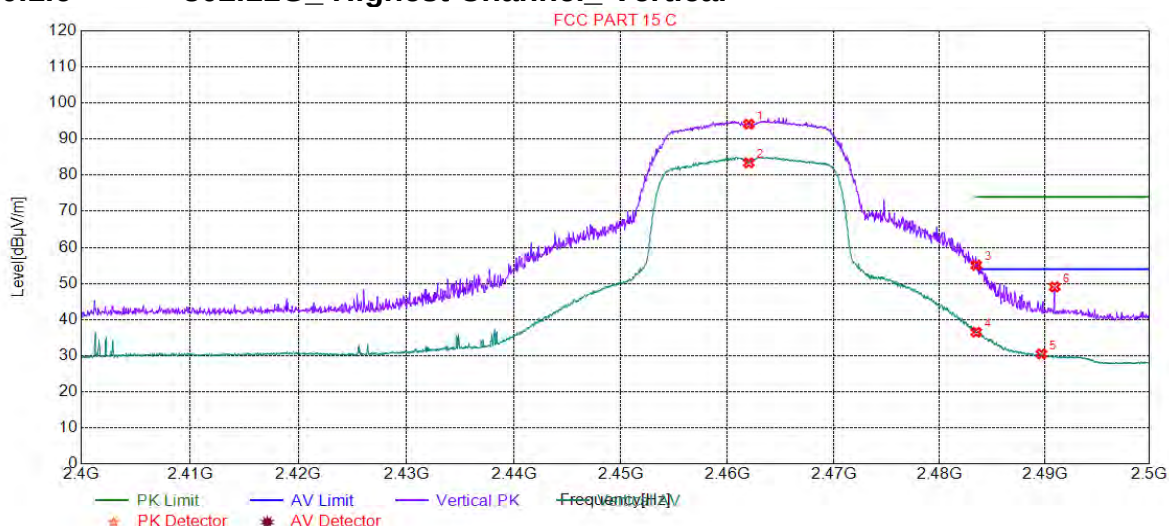
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#### 4.10.1.6 802.11G\_Highest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2462.0000   | 94.13          | 7.98        | 0.00           | -94.13      | 266         | 310       | Vertical |
| 2              | 2462.0000   | 83.42          | 7.98        | 0.00           | -83.42      | 241         | 96        | Vertical |
| 3              | 2483.5000   | 55.07          | 8.01        | 74.00          | 18.93       | 223         | 79        | Vertical |
| 4              | 2483.5000   | 36.51          | 8.01        | 54.00          | 17.49       | 191         | 107       | Vertical |
| 5              | 2489.6948   | 30.48          | 8.02        | 54.00          | 23.52       | 167         | 107       | Vertical |
| 6              | 2490.9455   | 49.05          | 8.02        | 74.00          | 24.95       | 191         | 123       | Vertical |



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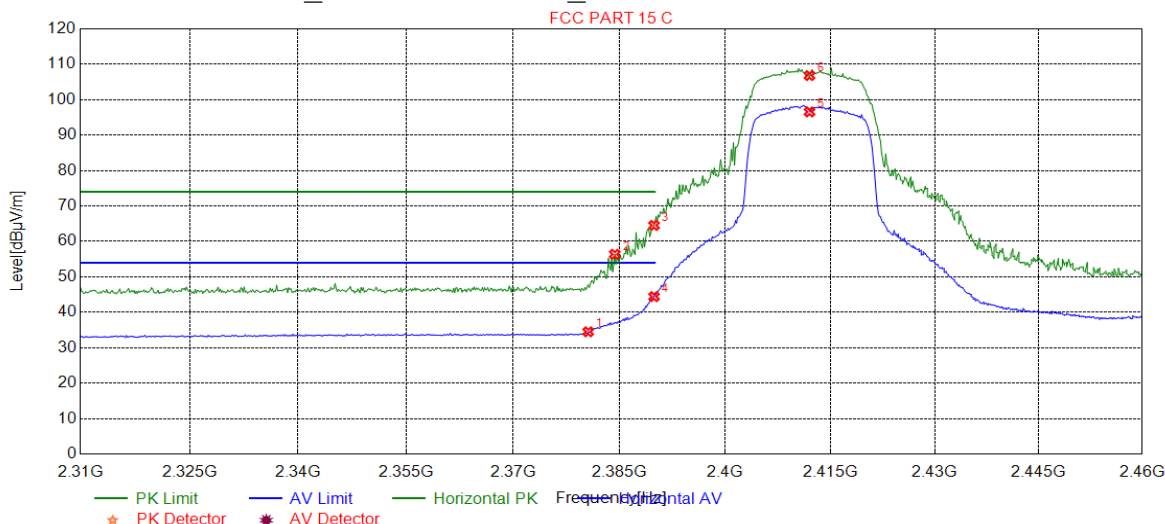
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#### 4.10.1.7 802.11G\_Lowest Channel\_Horizontal



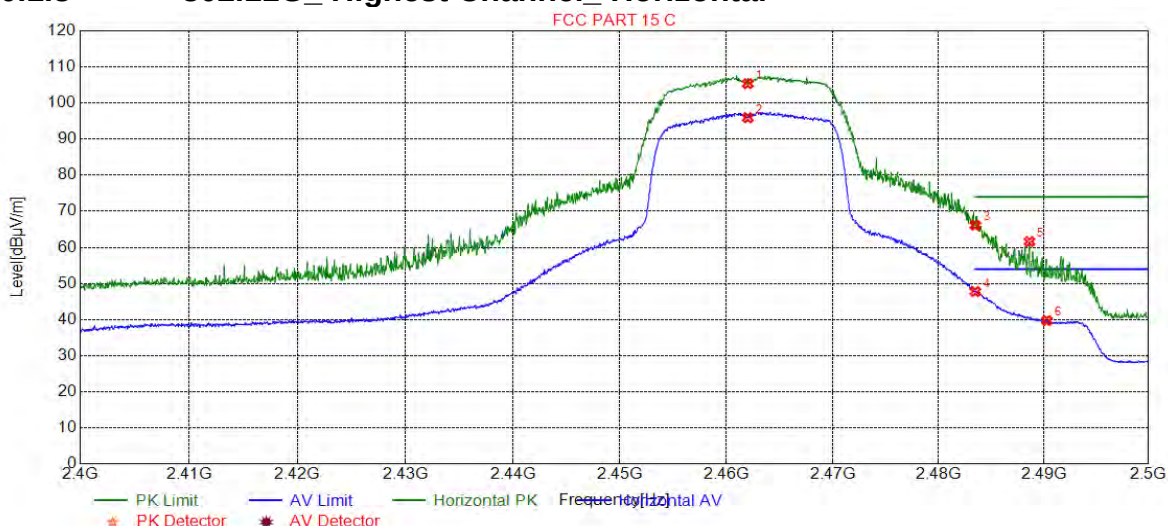
#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 2380.5706   | 34.49          | 7.78        | 54.00          | 19.51       | 162         | 346       | Horizontal |
| 2   | 2384.3243   | 56.37          | 7.78        | 74.00          | 17.63       | 205         | 346       | Horizontal |
| 3   | 2389.8799   | 64.53          | 7.77        | 74.00          | 9.47        | 230         | 346       | Horizontal |
| 4   | 2389.8799   | 44.42          | 7.77        | 54.00          | 9.58        | 225         | 346       | Horizontal |
| 5   | 2412.0000   | 96.56          | 7.81        | 0.00           | -96.56      | 170         | 346       | Horizontal |
| 6   | 2412.0000   | 106.81         | 7.81        | 0.00           | -106.81     | 179         | 346       | Horizontal |





#### 4.10.1.8 802.11G\_Highest Channel\_Horizontal



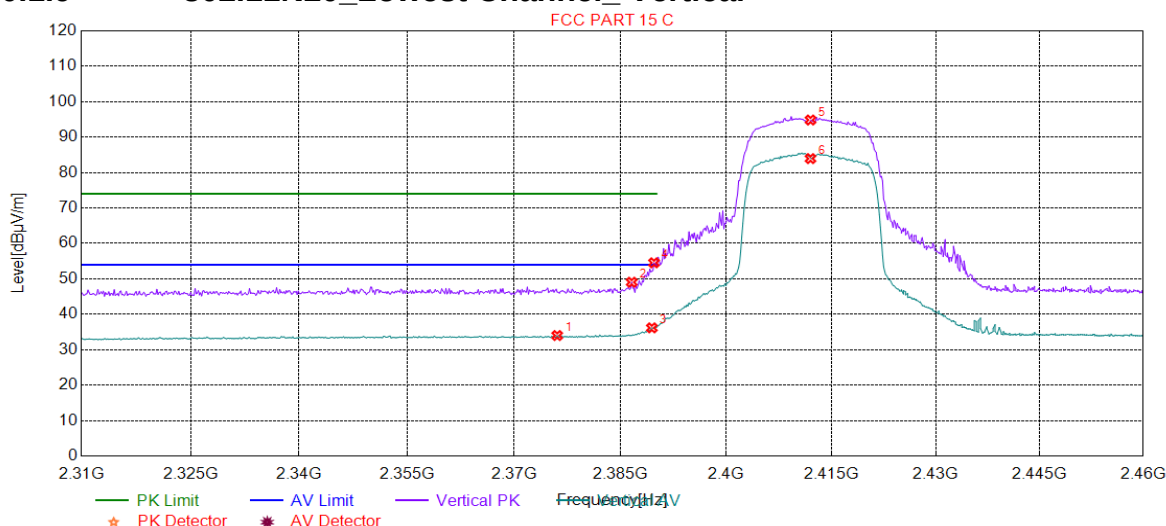
#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 2462.0000   | 105.36         | 7.98        | 0.00           | -105.36     | 234         | 3         | Horizontal |
| 2   | 2462.0000   | 95.93          | 7.98        | 0.00           | -95.93      | 178         | 3         | Horizontal |
| 3   | 2483.5000   | 66.12          | 8.01        | 74.00          | 7.88        | 227         | 195       | Horizontal |
| 4   | 2483.5000   | 47.74          | 8.01        | 54.00          | 6.26        | 215         | 0         | Horizontal |
| 5   | 2488.6443   | 61.59          | 8.02        | 74.00          | 12.41       | 240         | 216       | Horizontal |
| 6   | 2490.2951   | 39.72          | 8.02        | 54.00          | 14.28       | 198         | 205       | Horizontal |





#### 4.10.1.9 802.11N20\_Lowest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2376.0661   | 34.01          | 7.78        | 54.00          | 19.99       | 275         | 305       | Vertical |
| 2              | 2386.5766   | 49.05          | 7.77        | 74.00          | 24.95       | 252         | 100       | Vertical |
| 3              | 2389.4294   | 36.17          | 7.77        | 54.00          | 17.83       | 268         | 100       | Vertical |
| 4              | 2389.7297   | 54.53          | 7.77        | 74.00          | 19.47       | 169         | 96        | Vertical |
| 5              | 2412.0000   | 94.83          | 7.81        | 0.00           | -94.83      | 278         | 120       | Vertical |
| 6              | 2412.0000   | 83.94          | 7.81        | 0.00           | -83.94      | 205         | 120       | Vertical |



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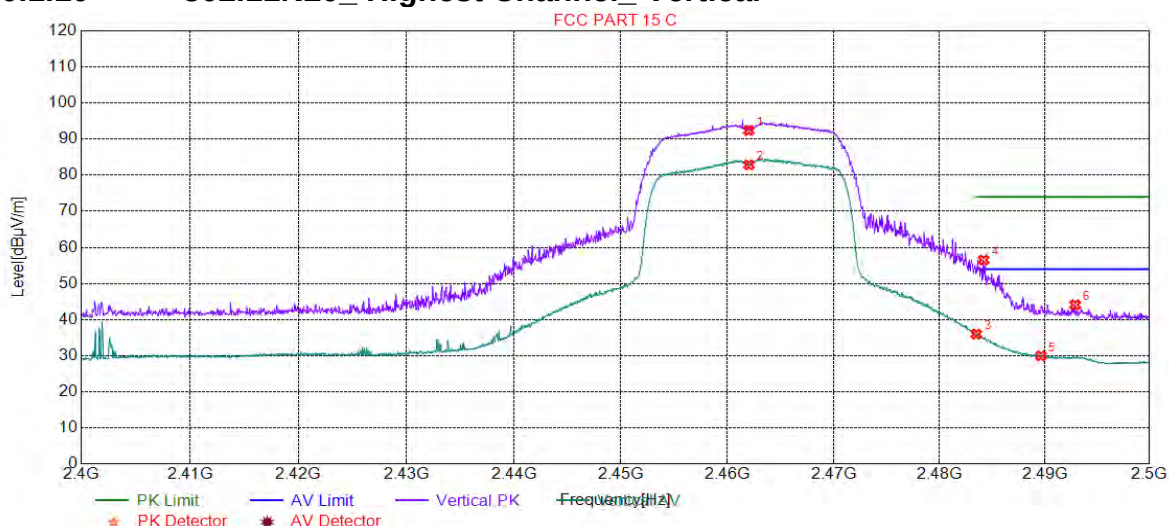
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#### 4.10.1.10 802.11N20\_Highest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2462.0000   | 92.40          | 7.98        | 0.00           | -92.40      | 234         | 78        | Vertical |
| 2              | 2462.0000   | 82.87          | 7.98        | 0.00           | -82.87      | 242         | 78        | Vertical |
| 3              | 2483.5000   | 36.00          | 8.01        | 54.00          | 18.00       | 262         | 288       | Vertical |
| 4              | 2484.1921   | 56.52          | 8.01        | 74.00          | 17.48       | 283         | 282       | Vertical |
| 5              | 2489.6448   | 29.96          | 8.02        | 54.00          | 24.04       | 225         | 271       | Vertical |
| 6              | 2492.8964   | 44.10          | 8.02        | 74.00          | 29.90       | 226         | 271       | Vertical |



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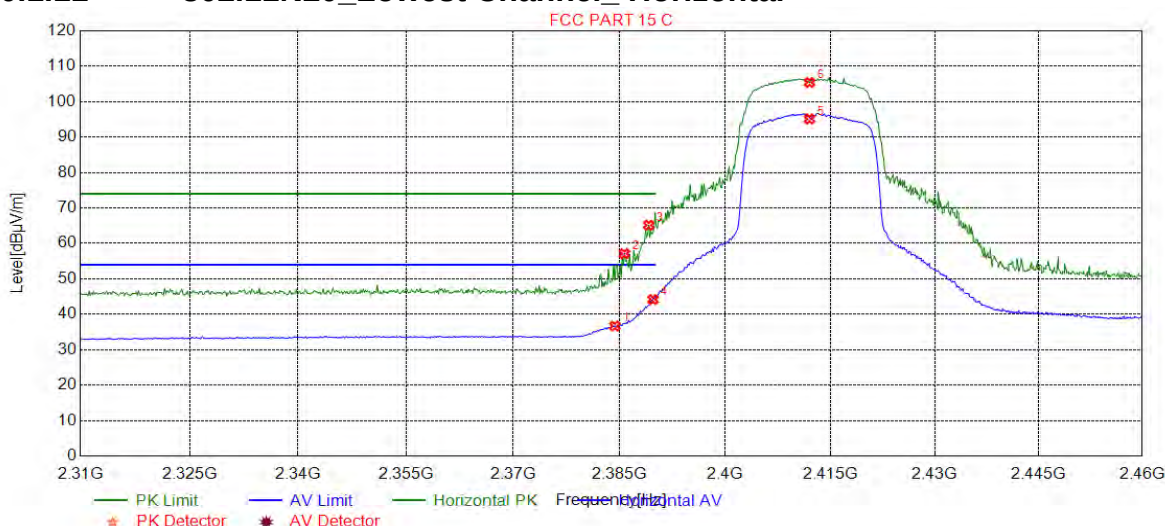
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#### 4.10.1.11 802.11N20\_Lowest Channel\_Horizontal

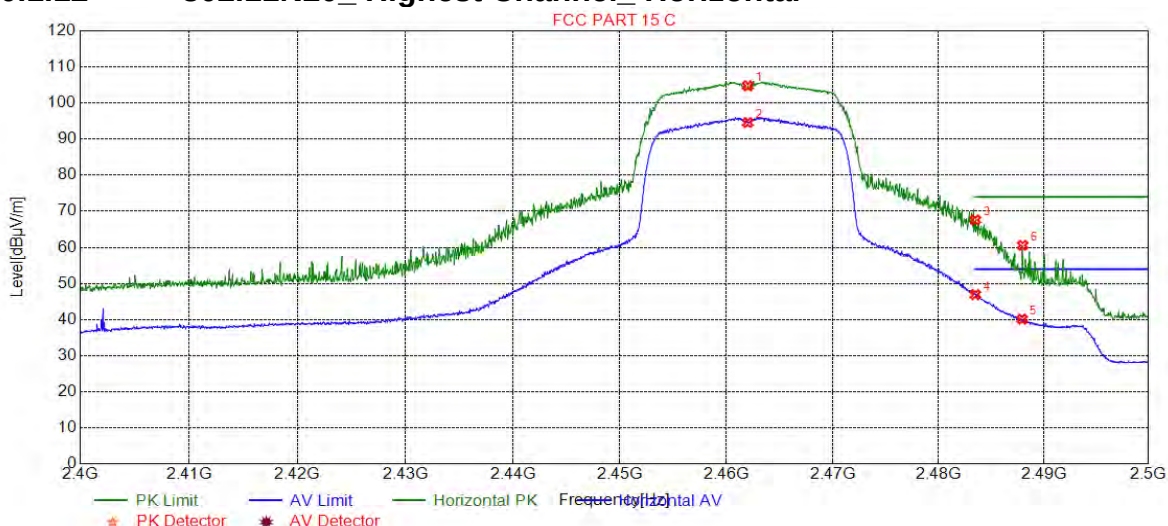


| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2384.3243   | 36.70          | 7.78        | 54.00          | 17.30       | 104         | 346       | Horizontal |
| 2              | 2385.6757   | 57.12          | 7.77        | 74.00          | 16.88       | 176         | 164       | Horizontal |
| 3              | 2389.1291   | 65.16          | 7.77        | 74.00          | 8.84        | 108         | 202       | Horizontal |
| 4              | 2389.7297   | 44.15          | 7.77        | 54.00          | 9.85        | 236         | 0         | Horizontal |
| 5              | 2412.0000   | 95.12          | 7.81        | 0.00           | -95.12      | 118         | 1         | Horizontal |
| 6              | 2412.0000   | 105.42         | 7.81        | 0.00           | -105.42     | 137         | 214       | Horizontal |





4.10.1.12 802.11N20\_Highest Channel\_Horizontal



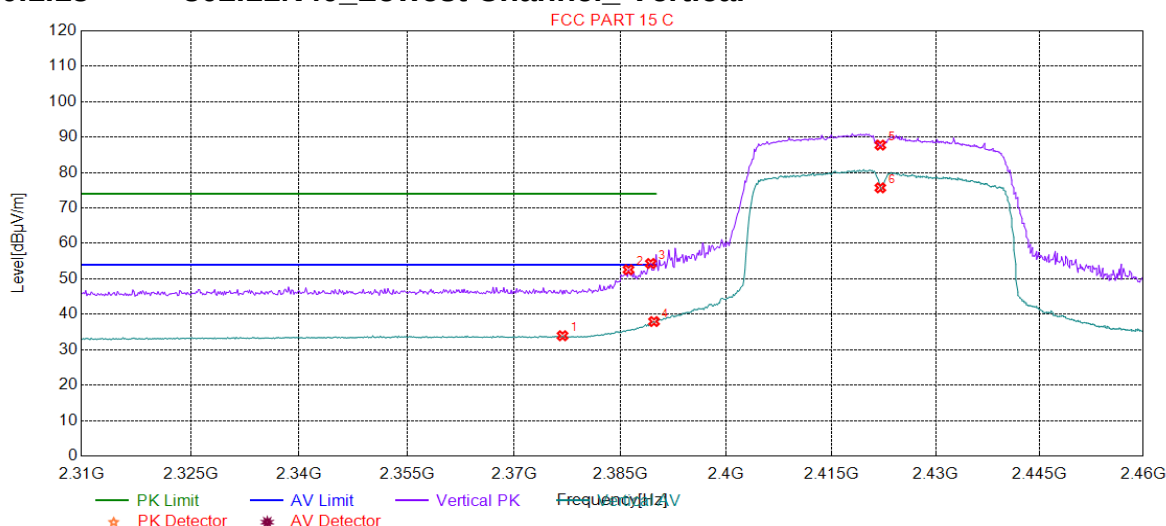
Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 2462.0000   | 104.75         | 7.98        | 0.00           | -104.75     | 128         | 258       | Horizontal |
| 2   | 2462.0000   | 94.57          | 7.98        | 0.00           | -94.57      | 172         | 0         | Horizontal |
| 3   | 2483.5000   | 67.60          | 8.01        | 74.00          | 6.40        | 191         | 0         | Horizontal |
| 4   | 2483.5000   | 46.90          | 8.01        | 54.00          | 7.10        | 224         | 198       | Horizontal |
| 5   | 2487.9440   | 40.11          | 8.02        | 54.00          | 13.89       | 243         | 198       | Horizontal |
| 6   | 2487.9940   | 60.57          | 8.02        | 74.00          | 13.43       | 173         | 187       | Horizontal |





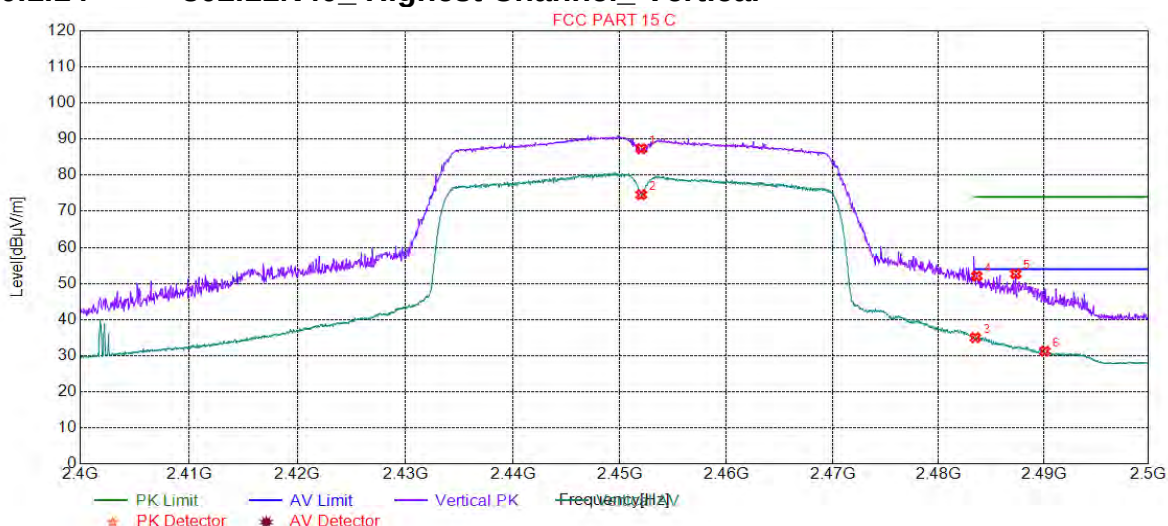
#### 4.10.1.13 802.11N40\_Lowest Channel\_Vertical



| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2376.8168   | 33.95          | 7.78        | 54.00          | 20.05       | 195         | 279       | Vertical |
| 2              | 2386.1261   | 52.58          | 7.77        | 74.00          | 21.42       | 269         | 103       | Vertical |
| 3              | 2389.2793   | 54.34          | 7.77        | 74.00          | 19.66       | 289         | 58        | Vertical |
| 4              | 2389.7297   | 37.96          | 7.77        | 54.00          | 16.04       | 165         | 99        | Vertical |
| 5              | 2422.0000   | 87.75          | 7.85        | 0.00           | -87.75      | 183         | 124       | Vertical |
| 6              | 2422.0000   | 75.69          | 7.85        | 0.00           | -75.69      | 288         | 124       | Vertical |



#### 4.10.1.14 802.11N40\_Highest Channel\_Vertical

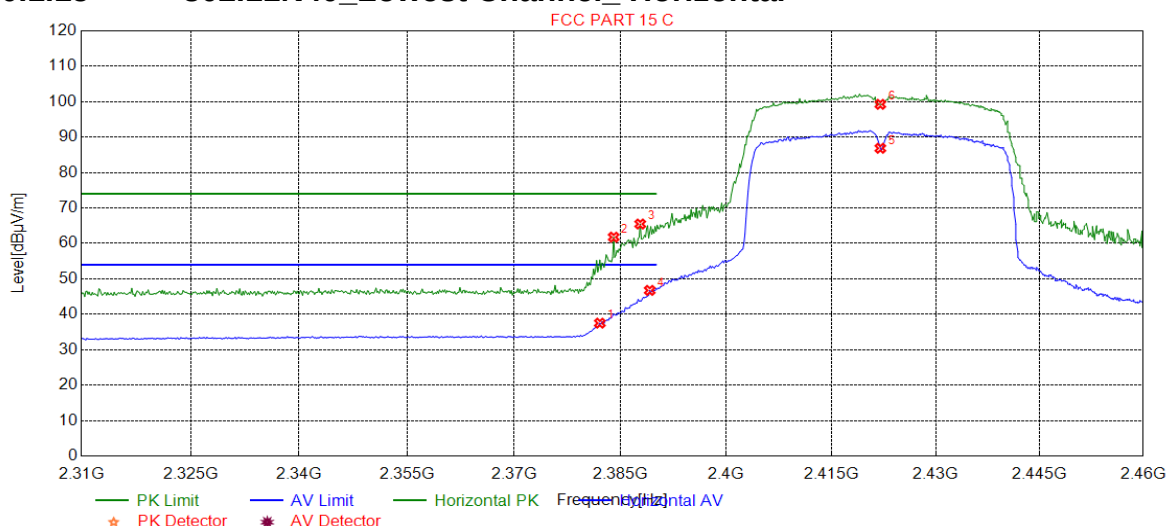


| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2452.0000   | 87.36          | 7.97        | 0.00           | -87.36      | 164         | 78        | Vertical |
| 2              | 2452.0000   | 74.60          | 7.97        | 0.00           | -74.60      | 172         | 100       | Vertical |
| 3              | 2483.5000   | 35.00          | 8.01        | 54.00          | 19.00       | 193         | 307       | Vertical |
| 4              | 2483.6418   | 52.07          | 8.01        | 74.00          | 21.93       | 288         | 296       | Vertical |
| 5              | 2487.3437   | 52.68          | 8.01        | 74.00          | 21.32       | 229         | 313       | Vertical |
| 6              | 2490.0950   | 31.23          | 8.02        | 54.00          | 22.77       | 161         | 307       | Vertical |





#### 4.10.1.15 802.11N40\_Lowest Channel\_Horizontal

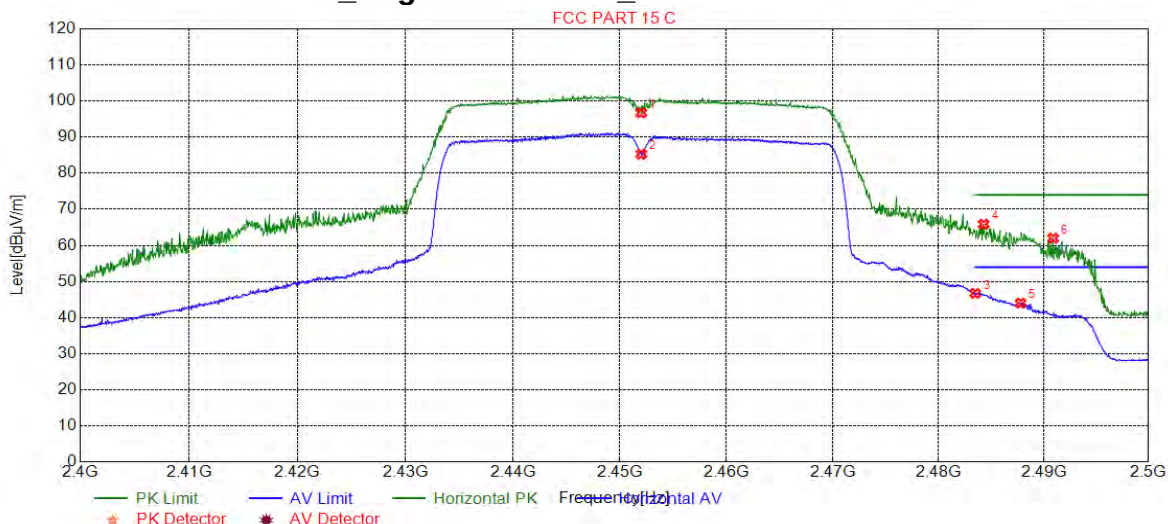


#### Suspected List

| NO. | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
|-----|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| 1   | 2382.0721   | 37.50          | 7.78        | 54.00          | 16.50       | 142         | 346       | Horizontal |
| 2   | 2384.0240   | 61.78          | 7.78        | 74.00          | 12.22       | 244         | 346       | Horizontal |
| 3   | 2387.7778   | 65.48          | 7.77        | 74.00          | 8.52        | 204         | 346       | Horizontal |
| 4   | 2389.1291   | 46.75          | 7.77        | 54.00          | 7.25        | 244         | 346       | Horizontal |
| 5   | 2422.0000   | 86.86          | 7.85        | 0.00           | -86.86      | 142         | 346       | Horizontal |
| 6   | 2422.0000   | 99.26          | 7.85        | 0.00           | -99.26      | 173         | 194       | Horizontal |



#### 4.10.1.16 802.11N40\_Highest Channel\_Horizontal



| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2452.0000   | 96.71          | 7.97        | 0.00           | -96.71      | 163         | 9         | Horizontal |
| 2              | 2452.0000   | 85.27          | 7.97        | 0.00           | -85.27      | 113         | 346       | Horizontal |
| 3              | 2483.5000   | 46.69          | 8.01        | 54.00          | 7.31        | 228         | 346       | Horizontal |
| 4              | 2484.2921   | 65.87          | 8.01        | 74.00          | 8.13        | 102         | 199       | Horizontal |
| 5              | 2487.7939   | 44.02          | 8.02        | 54.00          | 9.98        | 113         | 199       | Horizontal |
| 6              | 2490.8954   | 62.01          | 8.02        | 74.00          | 11.99       | 248         | 9         | Horizontal |

#### Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

All Modes have been tested, but only the worst case data displayed in this report.



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## 5 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:

| No. | Item                          | Measurement Uncertainty |
|-----|-------------------------------|-------------------------|
| 1   | Total RF power, conducted     | $\pm 0.75\text{dB}$     |
| 2   | RF power density, conducted   | $\pm 2.84\text{dB}$     |
| 3   | Spurious emissions, conducted | $\pm 0.75\text{dB}$     |
| 4   | Temperature test              | $\pm 1^{\circ}\text{C}$ |
| 5   | Humidity test                 | $\pm 3\%$               |
| 6   | DC and low frequency voltages | $\pm 0.5\%$             |

Lab B:

| No. | Item                | Measurement Uncertainty              |
|-----|---------------------|--------------------------------------|
| 1   | Conduction Emission | $\pm 3.0\text{dB}$ (150kHz to 30MHz) |
| 2   | Radiated Emission   | $\pm 4.8\text{dB}$ (Below 1GHz)      |
|     |                     | $\pm 4.8\text{dB}$ (1GHz to 6GHz)    |
|     |                     | $\pm 4.5\text{dB}$ (6GHz to 18GHz)   |
|     |                     | $\pm 5.02\text{dB}$ (Above 18GHz)    |



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## 6 Equipment List

| RF conducted test   |                          |                  |               |              |               |
|---------------------|--------------------------|------------------|---------------|--------------|---------------|
| Test Equipment      | Manufacturer             | Model No.        | Inventory No. | Cal. date    | Cal. Due date |
|                     |                          |                  |               | (yyyy-mm-dd) | (yyyy-mm-dd)  |
| DC Power Supply     | Agilent Technologies Inc | 66311B           | W009-09       | 2019/7/15    | 2020/7/15     |
| Signal Analyzer     | Rohde & Schwarz          | FSV              | W025-05       | 2019/4/9     | 2020/4/8      |
| Coaxial Cable       | SGS                      | N/A              | SEM031-01     | 2019/6/12    | 2020/6/11     |
| Attenuator          | Weinschel Associates     | WA41             | SEM021-09     | N/A          | N/A           |
| Signal Generator    | KEYSIGHT                 | N5173B           | SEM006-05     | 2019/7/14    | 2020/7/14     |
| Temperature Chamber | GIANT FORCE              | ICT-150-40-CP-AR | W027-03       | 2019/10/27   | 2020/10/27    |
| Power Meter         | Rohde & Schwarz          | NRVS             | SEM014-02     | 2019/7/14    | 2020/7/14     |



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| CE Test System                 |               |             |               |            |              |
|--------------------------------|---------------|-------------|---------------|------------|--------------|
| Equipment                      | Manufacturer  | Model No.   | Inventory No. | Cal Date   | Cal Due Date |
| Shielding Room                 | Brilliant-emc | N/A         | XAW03-35-01   | 2019-09-11 | 2022-09-10   |
| Test receiver                  | ROHDE&SCHWARZ | ESR         | XAW01-08-01   | 2019-09-07 | 2020-09-06   |
| Artificial network             | ROHDE&SCHWARZ | ENV216      | XAW01-04-01   | 2019-07-16 | 2020-07-15   |
| Temperature and humidity meter | MingGao       | TH101B      | XAW01-01-01   | 2019-12-06 | 2020-12-05   |
| Measurement Software           | Tonscend      | TS+ CE V2.5 | XAW02-05-02   | NCR        | NCR          |

| RSE Test System                     |                |                  |               |            |              |
|-------------------------------------|----------------|------------------|---------------|------------|--------------|
| Equipment                           | Manufacturer   | Model No.        | Inventory No. | Cal Date   | Cal Due Date |
| Semi-Anechoic Chamber               | Brilliant-emc  | N/A              | XAW03-35-01   | 2019-09-11 | 2022-09-10   |
| MXA signal analyzer                 | Keysight       | N9020A           | XAW01-06-01   | 2019-06-27 | 2020-06-26   |
| Test receiver                       | ROHDE&SCHWARZ  | ESR              | XAW01-08-01   | 2019-09-07 | 2020-09-06   |
| Receiving antenna (30MHz-3GHz)      | Schwarzbeck    | VULB 9163        | XAW01-09-01   | 2019-10-13 | 2021-10-12   |
| Receiving antenna (1GHz~18GHz)      | Schwarzbeck    | BBHA 9120D       | XAW01-09-02   | 2019-10-13 | 2021-10-12   |
| Receiving antenna (15GHz~40GHz)     | Schwarzbeck    | BBHA 9170        | XAW01-09-03   | 2019-10-13 | 2021-10-12   |
| Directional antenna rack controller | Max-Full       | MF-7802BS        | XAW03-03-01   | NCR        | NCR          |
| High-speed antenna rack controller  | Max-Full       | MF-7802          | XAW03-04-01   | NCR        | NCR          |
| Filter bank                         | Tonscend       | JS0806-F         | XAW03-05-01   | NCR        | NCR          |
| Filter bank                         | Tonscend       | JS0806s          | XAW03-05-02   | NCR        | NCR          |
| Amplifier                           | Tonscend       | TAP00903040      | XAW01-41-01   | 2019-11-18 | 2020-11-17   |
| Amplifier                           | Tonscend       | TAP01018048      | XAW01-41-02   | 2019-11-18 | 2020-11-17   |
| Amplifier                           | Tonscend       | TAP18040048      | XAW01-41-03   | 2019-12-03 | 2020-12-02   |
| Amplifier                           | Shanghai Steed | YX28980930       | XAW01-41-06   | 2019-11-18 | 2020-11-17   |
| Temperature and humidity meter      | MingGao        | TH101B           | XAW01-01-01   | 2019-12-06 | 2020-12-05   |
| Measurement Software                | Tonscend       | TS+ RSE V3.0.0.2 | XAW02-05-01   | NCR        | NCR          |



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR202030027.

The End



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