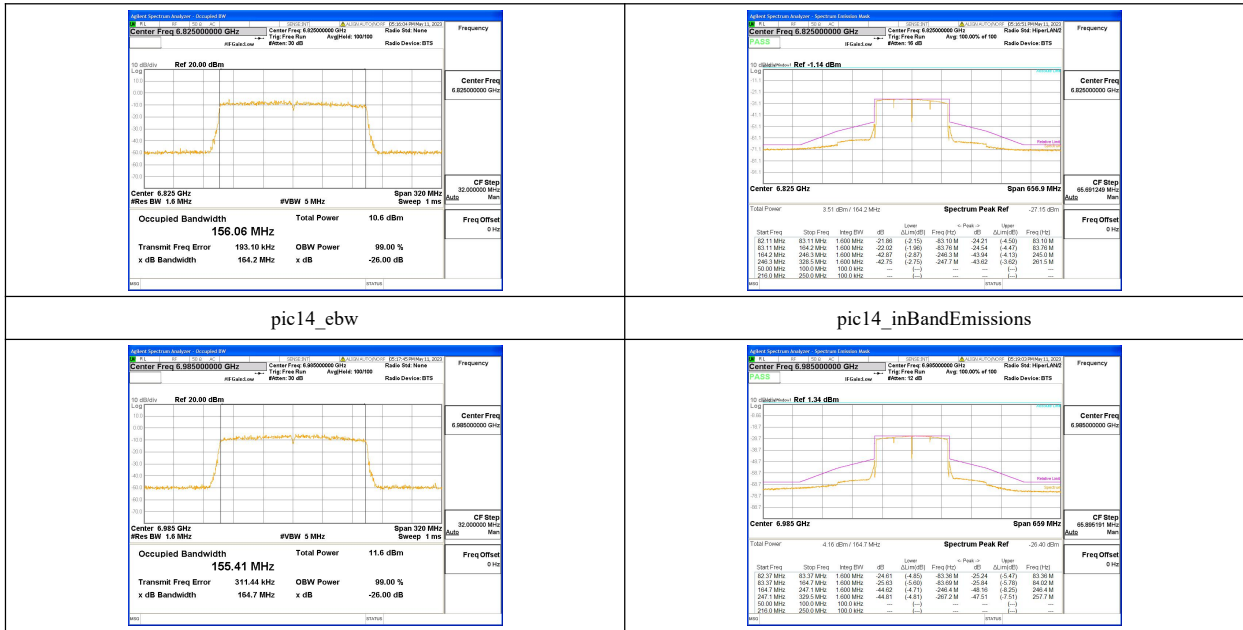


|   |   |
|---|---|
| <p>Center Freq 6.02500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 320 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>155.59 MHz</b></p> <p>Total Power 12.1 dBm</p> <p>Transmit Freq Error 454.19 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 164.0 MHz<br/>x dB -26.00 dB</p> | <p>Center Freq 6.02500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 655.1 MHz<br/>Sweep 1 ms</p> <p>Total Power 4.88 dBm / 104.5 MHz</p> <p>Spectrum Peak Ref -25.81 dBm</p> |
| pic9_cbw  |   |
| <p>Center Freq 6.18500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 320 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>155.95 MHz</b></p> <p>Total Power 11.5 dBm</p> <p>Transmit Freq Error 409.87 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 163.8 MHz<br/>x dB -26.00 dB</p> | <p>Center Freq 6.18500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 655.4 MHz<br/>Sweep 1 ms</p> <p>Total Power 4.16 dBm / 103.8 MHz</p> <p>Spectrum Peak Ref -20.45 dBm</p> |
| pic10_cbw   |   |
| <p>Center Freq 6.34500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 320 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>155.57 MHz</b></p> <p>Total Power 11.8 dBm</p> <p>Transmit Freq Error 458.85 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 162.9 MHz<br/>x dB -26.00 dB</p> | <p>Center Freq 6.34500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 651.6 MHz<br/>Sweep 1 ms</p> <p>Total Power 4.59 dBm / 102.9 MHz</p> <p>Spectrum Peak Ref -20.16 dBm</p> |
| pic11_cbw   |   |
| <p>Center Freq 6.50500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 320 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>156.05 MHz</b></p> <p>Total Power 11.1 dBm</p> <p>Transmit Freq Error 232.22 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 165.3 MHz<br/>x dB -26.00 dB</p> | <p>Center Freq 6.50500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 661.2 MHz<br/>Sweep 1 ms</p> <p>Total Power 4.21 dBm / 105.3 MHz</p> <p>Spectrum Peak Ref -20.41 dBm</p> |
| pic12_cbw   |   |
| <p>Center Freq 6.66500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 320 MHz<br/>Sweep 1 ms</p> <p>Occupied Bandwidth<br/><b>155.48 MHz</b></p> <p>Total Power 11.0 dBm</p> <p>Transmit Freq Error 315.69 kHz<br/>OBW Power 99.00 %<br/>x dB Bandwidth 164.6 MHz<br/>x dB -26.00 dB</p> | <p>Center Freq 6.66500000 GHz<br/>#RBW 1.0 MHz<br/>#VBW 5 MHz<br/>Span 658.5 MHz<br/>Sweep 1 ms</p> <p>Total Power 3.71 dBm / 104.6 MHz</p> <p>Spectrum Peak Ref -27.01 dBm</p> |
| pic13_cbw   |   |



# Report No.: I22W00019-WiFi RF-6E-Rev6



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Tel: 0086-23-88069965

FAX: 0086-23-88608777

### 6.7. Band Edges Compliance (Radiated)

|                           |   |
|---------------------------|---|
| <b>Specifications:</b>    | FCC Part 15. 407 (b)  |
| <b>DUT Serial Number:</b> | S2  |
| <b>Test conditions:</b>   | Ambient Temperature:15°C-35°C<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | Pass  |

**Limit**

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)(see §15.205(c)). According to FCC Part15.205,

**Restricted bands**

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 0.495-0.505       | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | (2)         |
| 13.36-13.41       |                     |               |             |

| Applicable to                           | Limit                |                                 |
|---|----------------------|---------------------------------|
| FCC Part 15. 407b(10), 15. 205, 15. 209 | Field Strength at 3m |                                 |
|   | PK: 74 (dB μ V/m)    | AV: 54 (dB μ V/m)               |
| Applicable to                           | EIRP Limit           | Equivalent Field Strength at 3m |
| 15. 407 (b) (6)                         | PK: -27 (dBm/MHz)    | PK: 68. 2 (dB μ V/m)            |

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## Report No.: I22W00019-WiFi RF-6E-Rev6

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu V/m, \text{ where } P \text{ is the eirp(Watts)}$$

### Measurement Uncertainty:

| Frequency Range | Uncertainty |
|-----------------|-------------|
| 1 GHz to 6 GHz  | 4.84        |

### Test Procedure

- 1.The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3.The antenna is a broadband antenna, and its 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.
- 4.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.
- 5.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6.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 re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

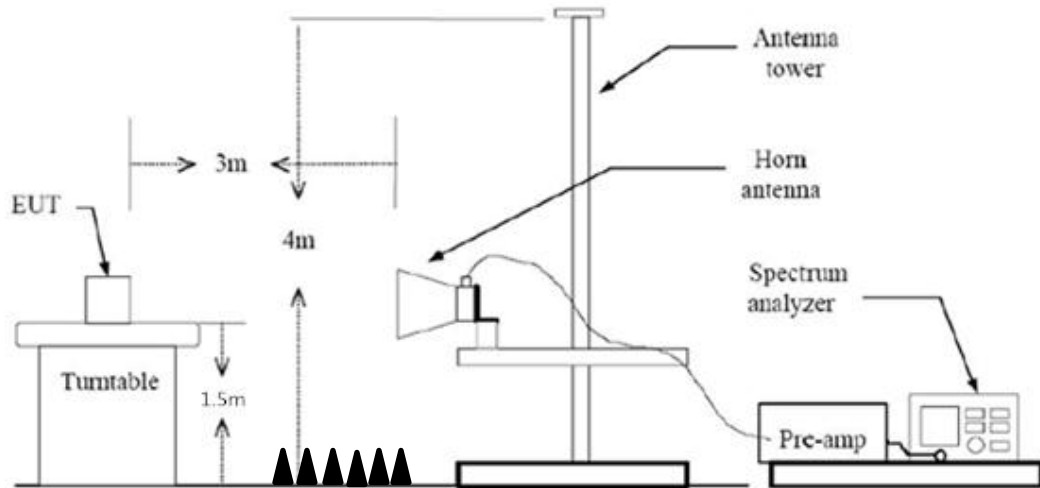
### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

### Test block diagram:

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Test Result:

802.11ax mode

| mode              | Channel | Test Results(dBuV/m) | Conclusion |
|-------------------|---------|----------------------|------------|
| 802.11ax<br>(20M) | 1       | Fig.1                | Pass       |
|                   | 233     | Fig.2                | Pass       |

| mode              | Channel | Test Results(dBuV/m) | Conclusion |
|-------------------|---------|----------------------|------------|
| 802.11ax<br>(40M) | 3       | Fig.3                | Pass       |
|                   | 227     | Fig.4                | Pass       |

| mode              | Channel | Test Results(dBuV/m) | Conclusion |
|-------------------|---------|----------------------|------------|
| 802.11ax<br>(80M) | 7       | Fig.5                | Pass       |
|                   | 215     | Fig.6                | Pass       |

| mode | Channel | Test Results(dBuV/m) | Conclusion |
|------|---------|----------------------|------------|
|------|---------|----------------------|------------|

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|                    |     |       |      |
|--------------------|-----|-------|------|
| 802.11ax<br>(160M) | 15  | Fig.7 | Pass |
|                    | 207 | Fig.8 | Pass |

Note:

- 1) The 802.11n/ax/ac mode is tested using MIMO mode.
  - 2) All the test data shown was peak detected. Transmitter Spurious Emission-Radiated H and V are tested together., The test is maximum hold.
- Therefore, the result is only one set of data.

**Conclusion: PASS**

Test figure as below:

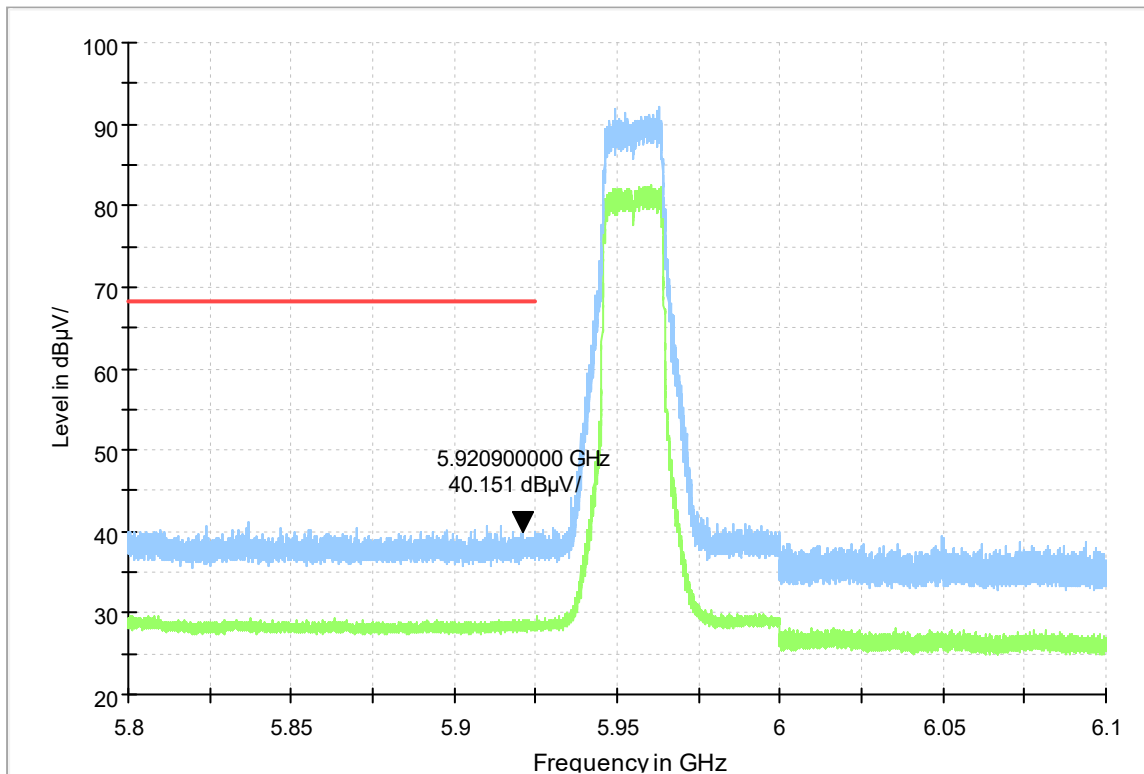


Fig.1 Frequency Band Edge: Ch1,11ax 20M

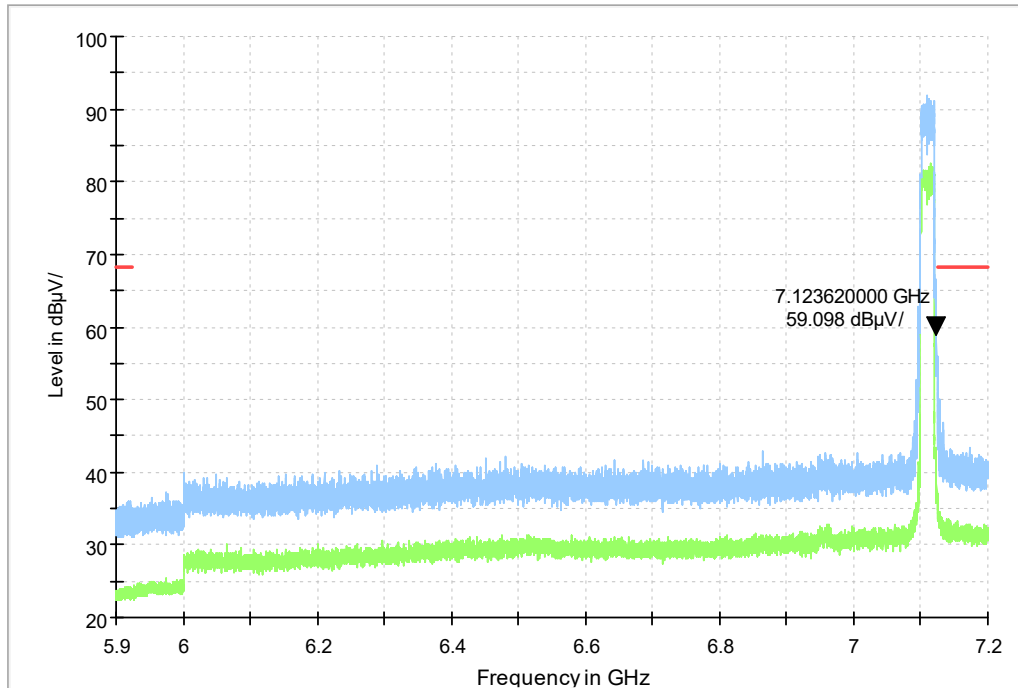


Fig.2 Frequency Band Edge: Ch233,11a 20M

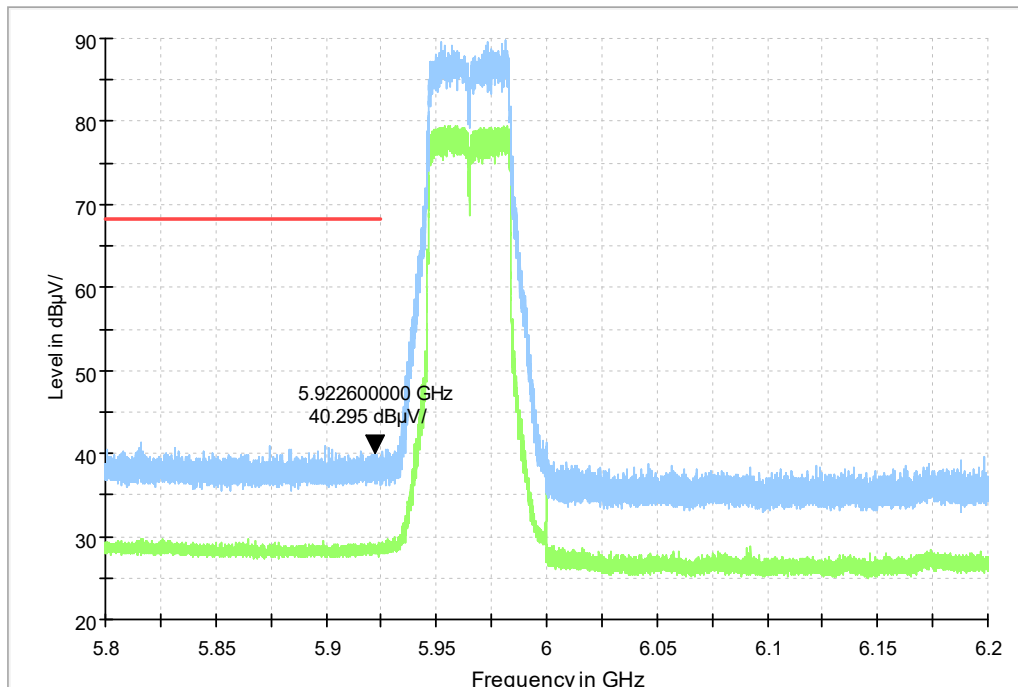


Fig.3 Frequency Band Edge: Ch3,11ax 40M

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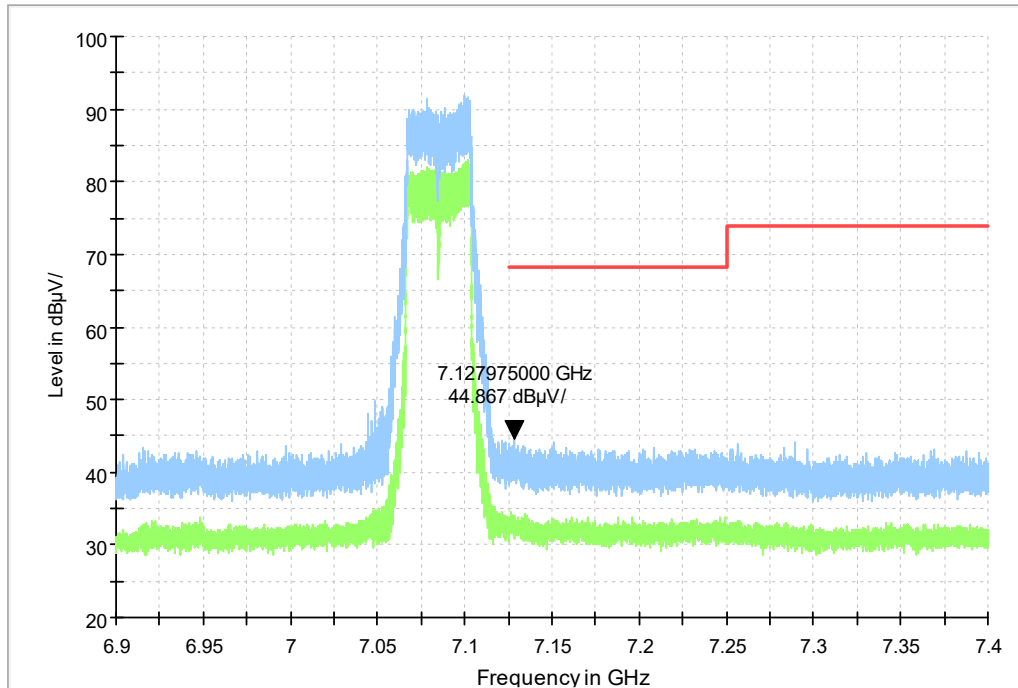


Fig.4 Frequency Band Edge: Ch227,1 in 40M

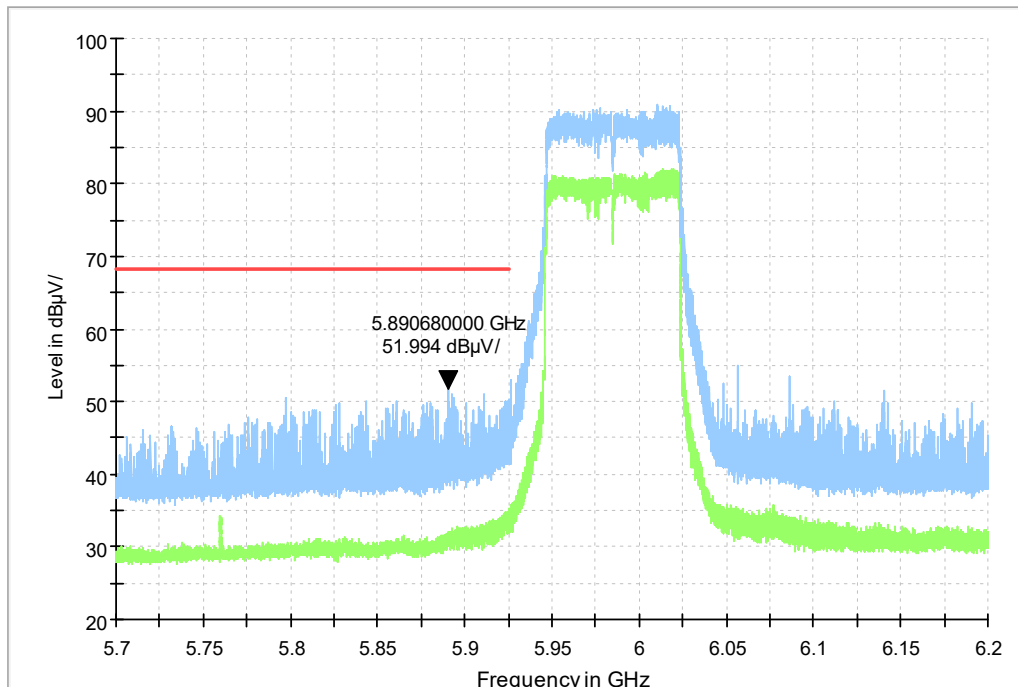


Fig.5 Frequency Band Edge: Ch7,1 in 80M

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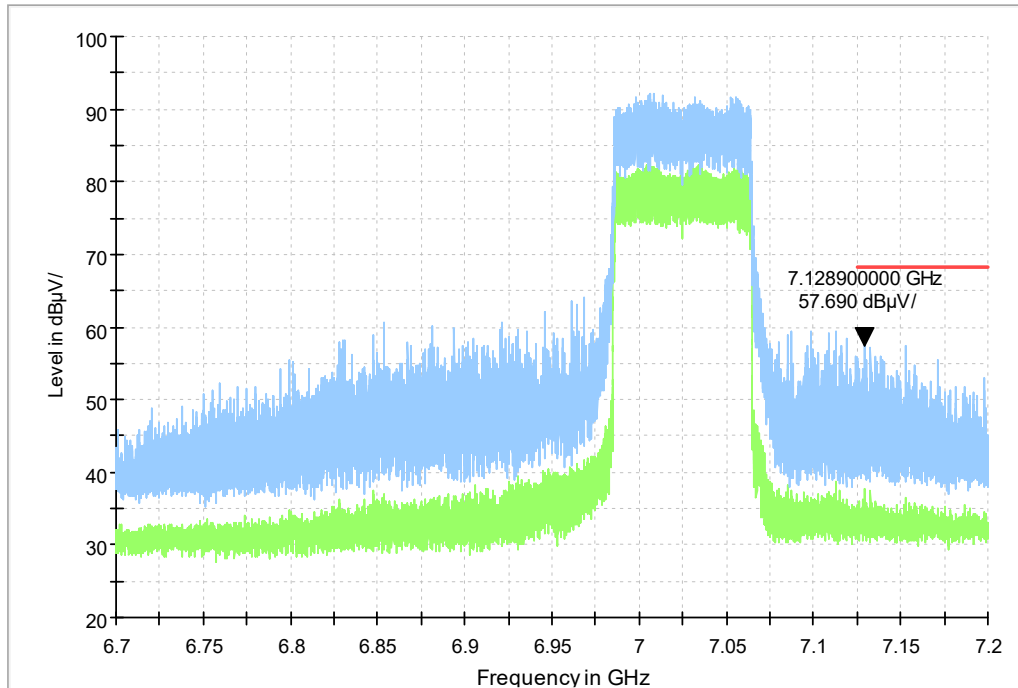


Fig.6 Frequency Band Edge: Ch213, 11ax 80M

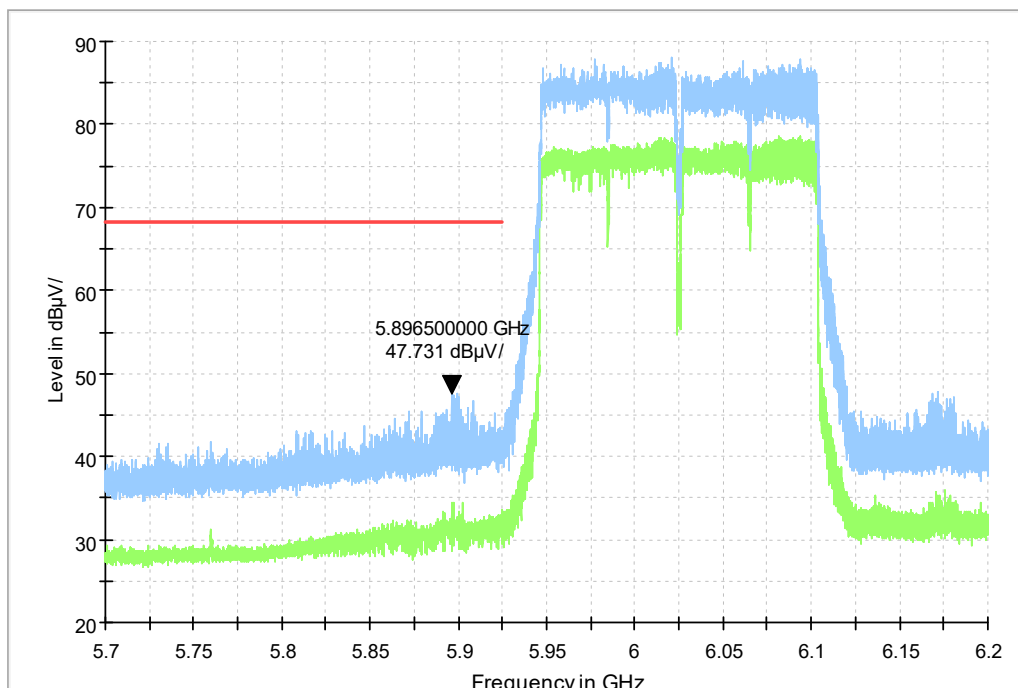


Fig.7 Frequency Band Edge: Ch15, 11ac 160M

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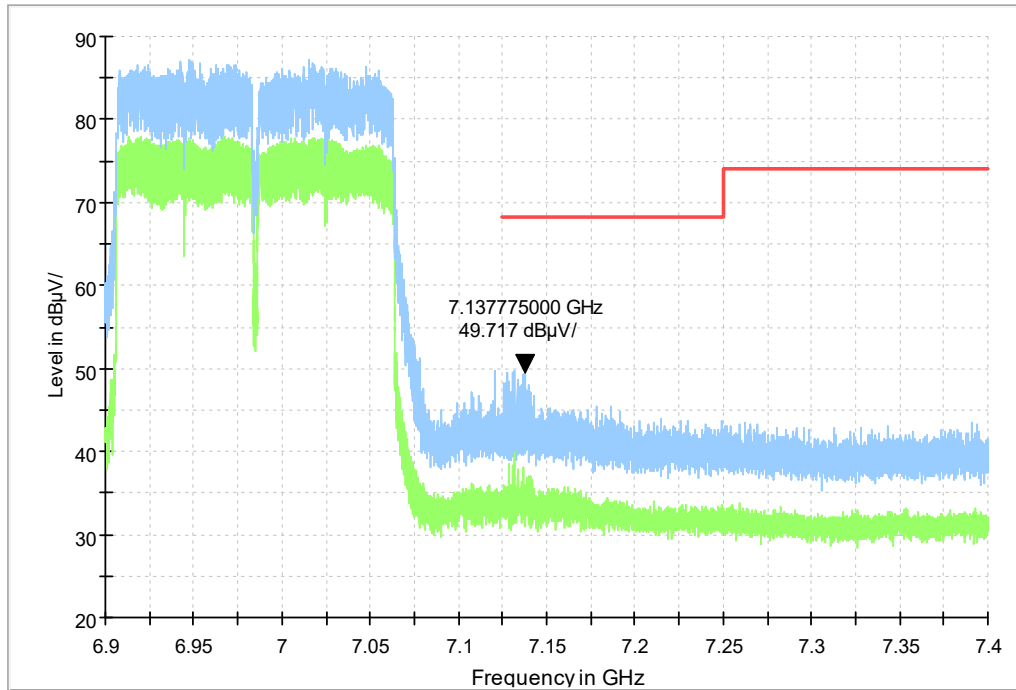


Fig.8 Frequency Band Edge: Ch207,11ax 160M

### 6.8. Transmitter Spurious Emission-Radiated

|                           |   |
|---------------------------|---|
| <b>Specifications:</b>    | FCC Part 15. 407 (b)  |
| <b>DUT Serial Number:</b> | S2  |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | Pass  |

**Limit**

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)(see §15.205(c)). According to FCC Part15.205,

**Restricted bands**

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 0.495-0.505       | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | (2)         |
| 13.36-13.41       |                     |               |             |

| Applicable to                           | Limit                |                                 |
|---|----------------------|---------------------------------|
| FCC Part 15. 407b(10), 15. 205, 15. 209 | Field Strength at 3m |                                 |
|   | PK: 74 (dB μ V/m)    | AV: 54 (dB μ V/m)               |
| Applicable to                           | EIRP Limit           | Equivalent Field Strength at 3m |

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**Report No.: I22W00019-WiFi RF-6E-Rev6**

|                 |                   |                      |
|-----------------|-------------------|----------------------|
| 15. 407 (b) (6) | PK: -27 (dBm/MHz) | PK: 68. 2 (dB μ V/m) |
|-----------------|-------------------|----------------------|

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu V/m, \text{ where } P \text{ is the eirp(Watts)}$$

**Measurement Uncertainty:**

| Frequency Range | Uncertainty |
|-----------------|-------------|
| 9kHz-30MHz      | 4.54dB      |
| 30MHz -1GHz     | 4.09dB      |
| 1GHz - 6GHz     | 4.84dB      |
| 6GHz - 18GHz    | 4.52dB      |
| 18GHz - 26GHz   | 6.19dB      |
| 26GHz - 40GHz   | 6.04dB      |

**Limit in restricted band:**

| Frequency of emission (MHz) | Field strength (uV/m) | Measurement distance (meters) |
|-----------------------------|-----------------------|-------------------------------|
| 0.009-0.49                  | 2400/F(kHz)           | 300                           |
| 0.49-1.705                  | 24000/F(kHz)          | 30                            |
| 1.705-30                    | 30                    | 30                            |

| Frequency of emission (MHz) | Field strength (uV/m) | Field strength (dBuV/m) |
|-----------------------------|-----------------------|-------------------------|
| 30~88                       | 100                   | 40                      |
| 88~216                      | 150                   | 43.5                    |
| 216~960                     | 200                   | 46                      |
| Above 960                   | 500                   | 54                      |

**Limits of Radiated Emission Measurement(Above 1000MHz)**

| Frequency(MHz) | Class B(dBuV/m)(at 3M) |         |
|----------------|------------------------|---------|
|                | PEAK                   | AVERAGE |
| Above 1000     | 74                     | 54      |

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**Note:**

1. Emission level in dBuV/m= $20 \log(uV/m)$

2. Measurement was performed at an antenna to the closed point of EUT distance of meters. 3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =  $40 \log(\text{Specific distance}/ \text{test distance})(dB)$ ;

Limit line = Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

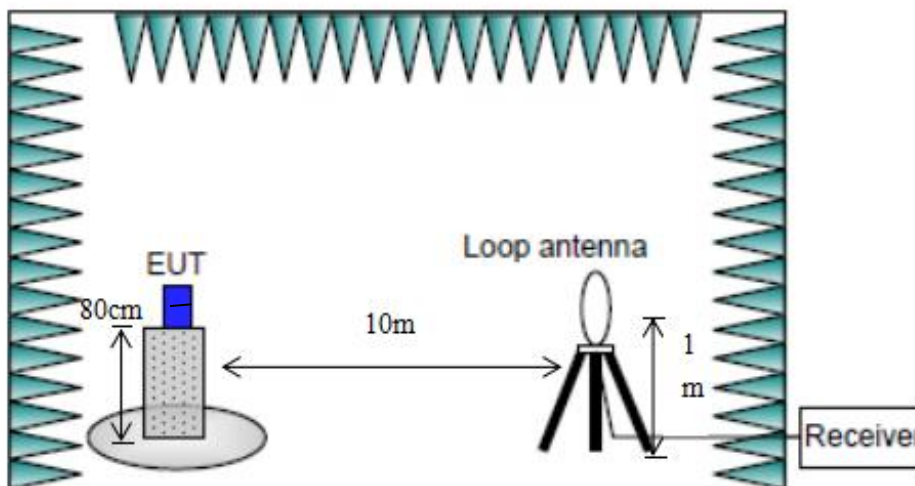
Distance extrapolation factor =  $20 \log(\text{Specific distance}/ \text{test distance})(dB)$ ;

Limit line = Specific limits(dBuV) + distance extrapolation factor.

## Test Setup

The EUT was placed in an anechoic chamber. The BLUETOOTH TESTER was used to set the TX channel and power level. The transmitter output is connected to Spectrum analyzer through a loop antenna (for frequency below 30MHz) or a Bilog antenna (for frequency 30MHz-1GHz) or a horn antenna (for frequency above 1GHz).

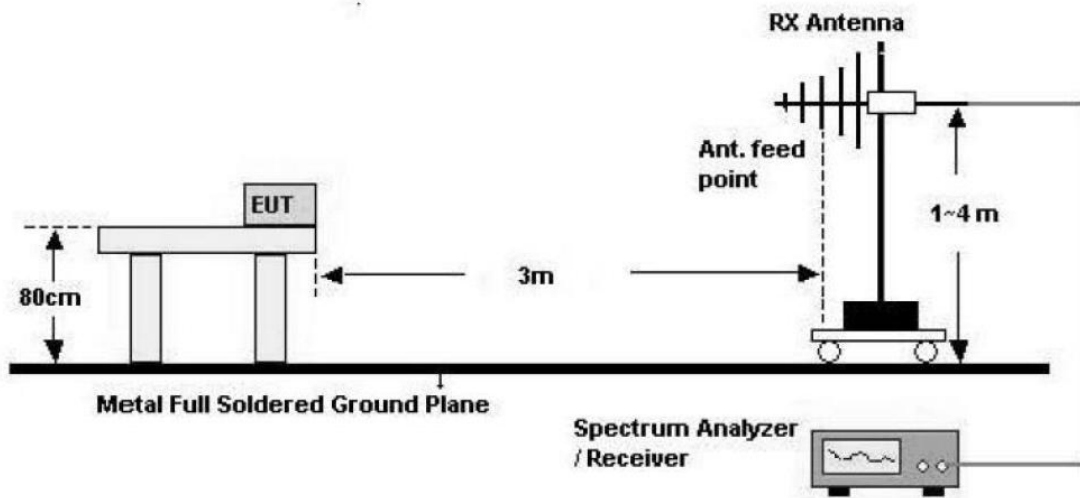
Below 30MHz:



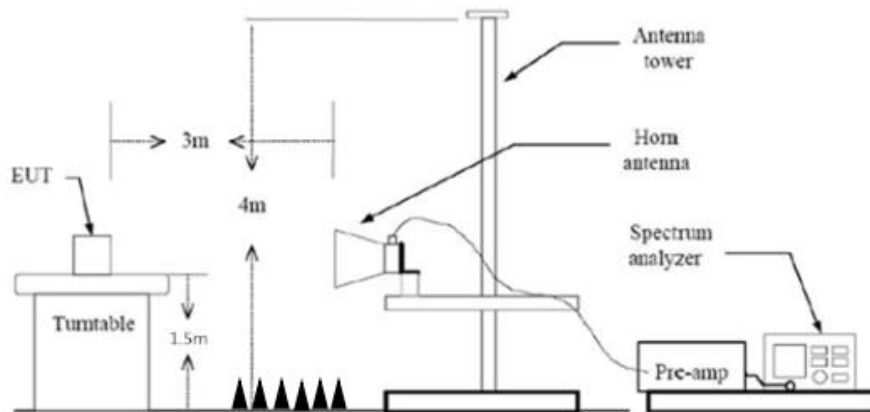
30MHz-1GHz:

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Above 1GHz:



#### Test Procedure

1. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna is a broadband antenna, and its 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.
4. 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.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. 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 re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

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**Notes:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

| Frequency of emission (MHz) | RBW/VBW       | Sweep Time |
|-----------------------------|---------------|------------|
| 0.009~30                    | 10kHz/30KHz   | 5          |
| 30~1000                     | 100KHz/300KHz | 5s         |
| 1000~3000                   | 1MHz/3MHz     | 3s         |
| 3000~18000                  | 1MHz/3MHz     | 7s         |
| 18000~26500                 | 1MHz/3MHz     | 0.5s       |
| 26500~40000                 | 1MHz/3MHz     | 0.5s       |

**Test Result:**

A “reference path loss” is established and AR<sub>pi</sub> is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

AR<sub>pi</sub>= Cable loss + Antenna Gain-Preamplifier gain

Result=P<sub>Mea</sub> + AR<sub>pi</sub>

| Mode          | Channel | Frequency Range | Test Results | Conclusion |
|---------------|---------|-----------------|--------------|------------|
| All channels  |         | 30MH-1GHz       | Fig.1        | Pass       |
| 802.11ax(20M) | 1       | 1GHz-8.5GHz     | Fig.2        | Pass       |
|               |         | 8.5GHz-18GHz    | Fig.3        |            |
|               | 45      | 1GHz-8.5GHz     | Fig.4        | Pass       |
|               |         | 8.5GHz-18GHz    | Fig.5        |            |
|               | 93      | 1GHz-8.5GHz     | Fig.6        | Pass       |
|               |         | 8.5GHz-18GHz    | Fig.7        |            |
|               | 97      | 1GHz-8.5GHz     | Fig.8        | Pass       |
|               |         | 8.5GHz-18GHz    | Fig.9        |            |
|               | 105     | 1GHz-8.5GHz     | Fig.10       | Pass       |
|               |         | 8.5GHz-18GHz    | Fig.11       |            |

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|               |               |              |              |        |      |
|---------------|---------------|--------------|--------------|--------|------|
|               | 113           | 1GHz-8.5GHz  | Fig.12       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.13       |        |      |
|               | 117           | 1GHz-8.5GHz  | Fig.14       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.15       |        |      |
|               | 149           | 1GHz-8.5GHz  | Fig.16       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.17       |        |      |
|               | 181           | 1GHz-8.5GHz  | Fig.18       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.19       |        |      |
|               | 185           | 1GHz-8.5GHz  | Fig.20       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.21       |        |      |
|               | 209           | 1GHz-8.5GHz  | Fig.22       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.23       |        |      |
|               | 233           | 1GHz-8.5GHz  | Fig.24       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.25       |        |      |
|               | 802.11ax(40M) | 3            | 1GHz-8.5GHz  | Fig.26 | Pass |
|               |               |              | 8.5GHz-18GHz | Fig.27 |      |
| 43            |               | 1GHz-8.5GHz  | Fig.28       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.29       |        |      |
| 91            |               | 1GHz-8.5GHz  | Fig.30       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.31       |        |      |
| 99            |               | 1GHz-8.5GHz  | Fig.32       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.33       |        |      |
| 107           |               | 1GHz-8.5GHz  | Fig.34       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.35       |        |      |
| 115           |               | 1GHz-8.5GHz  | Fig.36       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.37       |        |      |
| 123           |               | 1GHz-8.5GHz  | Fig.38       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.39       |        |      |
| 147           |               | 1GHz-8.5GHz  | Fig.40       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.41       |        |      |
| 179           |               | 1GHz-8.5GHz  | Fig.42       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.43       |        |      |
| 187           |               | 1GHz-8.5GHz  | Fig.44       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.45       |        |      |
| 203           |               | 1GHz-8.5GHz  | Fig.46       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.47       |        |      |
| 227           |               | 1GHz-8.5GHz  | Fig.48       | Pass   |      |
|               |               | 8.5GHz-18GHz | Fig.49       |        |      |
| 802.11ax(80M) | 7             | 1GHz-8.5GHz  | Fig.50       | Pass   |      |

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|              |                |               |              |        |      |
|--------------|----------------|---------------|--------------|--------|------|
|              | 39             | 8.5GHz-18GHz  | Fig.51       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.52       |        |      |
|              | 87             | 8.5GHz-18GHz  | Fig.53       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.54       |        |      |
|              | 103            | 8.5GHz-18GHz  | Fig.55       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.56       |        |      |
|              | 119            | 8.5GHz-18GHz  | Fig.57       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.58       |        |      |
|              | 151            | 8.5GHz-18GHz  | Fig.59       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.60       |        |      |
|              | 183            | 8.5GHz-18GHz  | Fig.61       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.62       |        |      |
|              | 199            | 8.5GHz-18GHz  | Fig.63       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.64       |        |      |
|              | 215            | 8.5GHz-18GHz  | Fig.65       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.66       |        |      |
|              | 802.11ax(160M) | 15            | 8.5GHz-18GHz | Fig.67 | Pass |
|              |                |               | 1GHz-8.5GHz  | Fig.68 |      |
| 47           |                | 8.5GHz-18GHz  | Fig.69       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.70       |        |      |
| 79           |                | 8.5GHz-18GHz  | Fig.71       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.72       |        |      |
| 111          |                | 8.5GHz-18GHz  | Fig.73       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.74       |        |      |
| 143          |                | 8.5GHz-18GHz  | Fig.75       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.76       |        |      |
| 175          |                | 8.5GHz-18GHz  | Fig.77       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.78       |        |      |
| 207          |                | 8.5GHz-18GHz  | Fig.79       | Pass   |      |
|              |                | 1GHz-8.5GHz   | Fig.80       |        |      |
| All channels |                | 18GHz-26.5GHz | Fig.81       | Pass   |      |
| All channels |                | 26.5GHz-40GHz | Fig.82       | Pass   |      |
| All channels |                | 18GHz-26.5GHz | Fig.83       | Pass   |      |

Note:

1) The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Transmitter Spurious Emission-Radiated H and V are tested together, The test result is maximum hold. Therefore, the result is only one set of data.

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## Report No.: I22W00019-WiFi RF-6E-Rev6

Found the emission level are attenuated 20dB below the limits for frequency range 9kHz to 30MHz, so it does not recorded in report.

The 30MHz-1GHz, 18GHz-26.5GHz and 26.5GHz-40GHz results were found as the worst case and were shown in this report.

2) The 802.11n/ax/ac mode is tested using MIMO mode.

**Conclusion: PASS**

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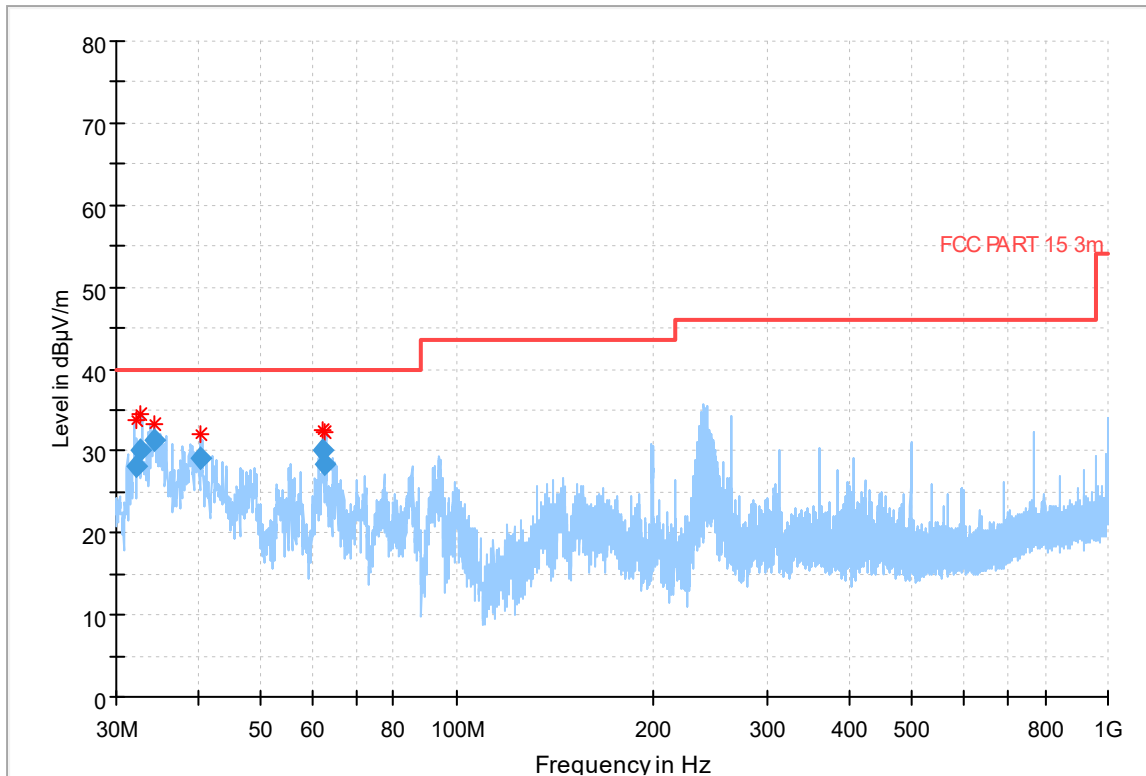


Fig.1 Radiated emission: 30MHz-1GHz

## Final\_Result

| Frequency (MHz) | QuasiPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|----------------|-------------|------------|-----------------|-------------|-----|---------------|------------|
| 32.148500       | 28.07              | 40.00          | 11.93       | 1000.      | 120.000         | 131.0       | V   | 270.0         | -23.0      |
| 32.741500       | 30.09              | 40.00          | 9.91        | 1000.      | 120.000         | 110.0       | V   | 180.0         | -22.9      |
| 34.280000       | 31.23              | 40.00          | 8.77        | 1000.      | 120.000         | 110.0       | V   | 180.0         | -22.5      |
| 40.379000       | 29.04              | 40.00          | 10.96       | 1000.      | 120.000         | 139.0       | V   | 180.0         | -19.9      |
| 62.263500       | 30.15              | 40.00          | 9.85        | 1000.      | 120.000         | 106.0       | V   | 90.0          | -19.7      |
| 62.491500       | 28.39              | 40.00          | 11.61       | 1000.      | 120.000         | 113.0       | V   | 180.0         | -19.7      |

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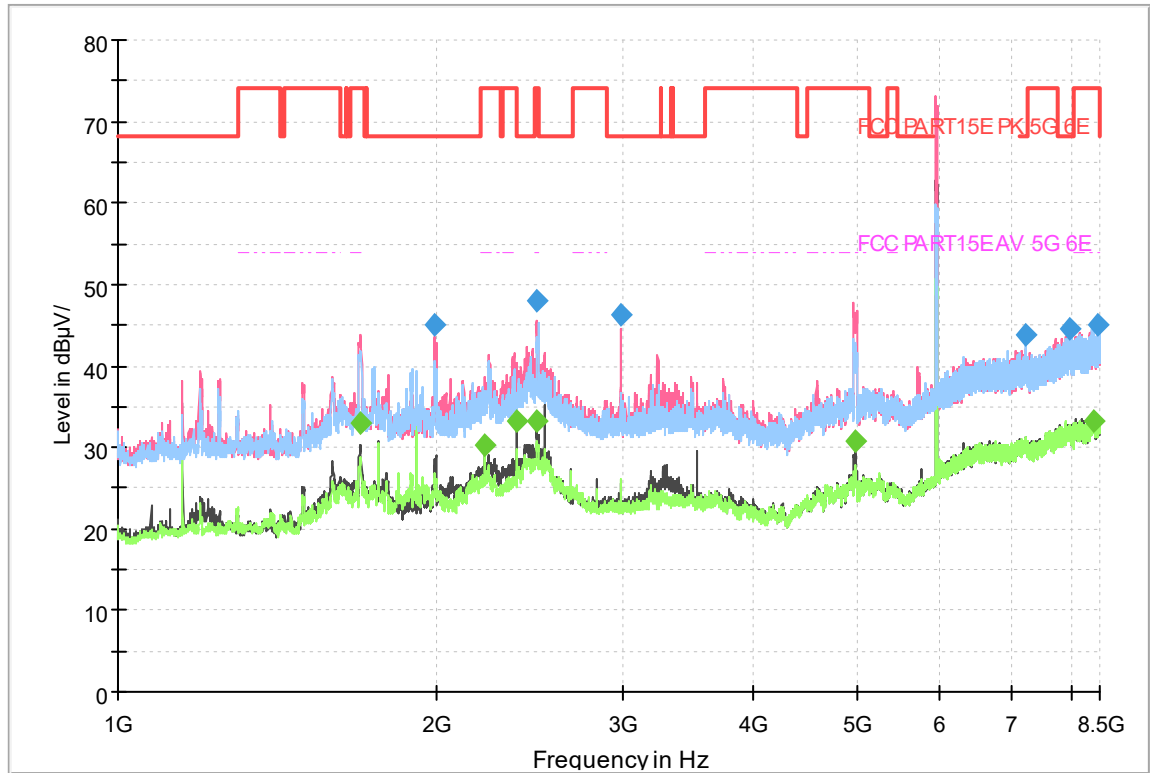


Fig.2 Radiated emission: 11ax 20M, Ch1, 1GHz-8.5GHz

### Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|-----|---------------|------------|
| 1697.512500     | ---              | 32.88            | 54.00          | 21.12       | 50.0       | 1000.000        | 150.0       | V   | 133.0         | -11.4      |
| 1995.535000     | 45.11            | ---              | 68.20          | 23.09       | 50.0       | 1000.000        | 150.0       | V   | 94.0          | -10.8      |
| 2227.365000     | ---              | 30.24            | 54.00          | 23.76       | 50.0       | 1000.000        | 150.0       | V   | 126.0         | -10.1      |
| 2380.597500     | ---              | 33.32            | 54.00          | 20.68       | 50.0       | 1000.000        | 150.0       | V   | 242.0         | -9.6       |
| 2490.500000     | 47.97            | ---              | 74.00          | 26.03       | 50.0       | 1000.000        | 150.0       | V   | 87.0          | -9.3       |
| 2490.552500     | ---              | 33.22            | 54.00          | 20.78       | 50.0       | 1000.000        | 150.0       | V   | 87.0          | -9.3       |
| 2992.540000     | 46.26            | ---              | 68.20          | 21.94       | 50.0       | 1000.000        | 150.0       | V   | 196.0         | -7.8       |
| 4981.087500     | ---              | 30.77            | 54.00          | 23.23       | 50.0       | 1000.000        | 150.0       | V   | 35.0          | -2.5       |
| 7231.591000     | 43.75            | ---              | 68.20          | 24.45       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | 2.5        |
| 7968.385500     | 44.44            | ---              | 68.20          | 23.76       | 50.0       | 1000.000        | 150.0       | H   | 263.0         | 5.2        |
| 8401.246000     | ---              | 33.35            | 54.00          | 20.65       | 50.0       | 1000.000        | 150.0       | V   | 249.0         | 5.7        |
| 8460.500000     | 45.12            | ---              | 74.00          | 28.88       | 50.0       | 1000.000        | 150.0       | H   | 263.0         | 5.6        |

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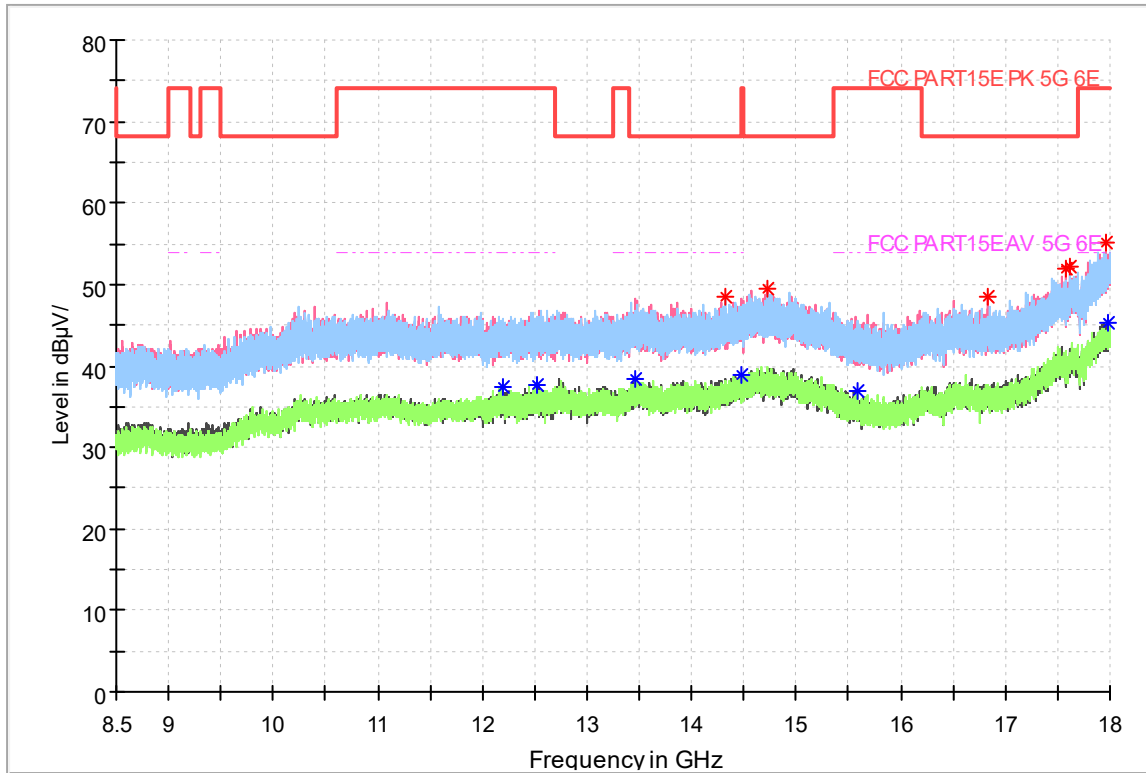


Fig.3 Radiated emission: 11ax 20M, Ch1, 8.5GHz-18GHz

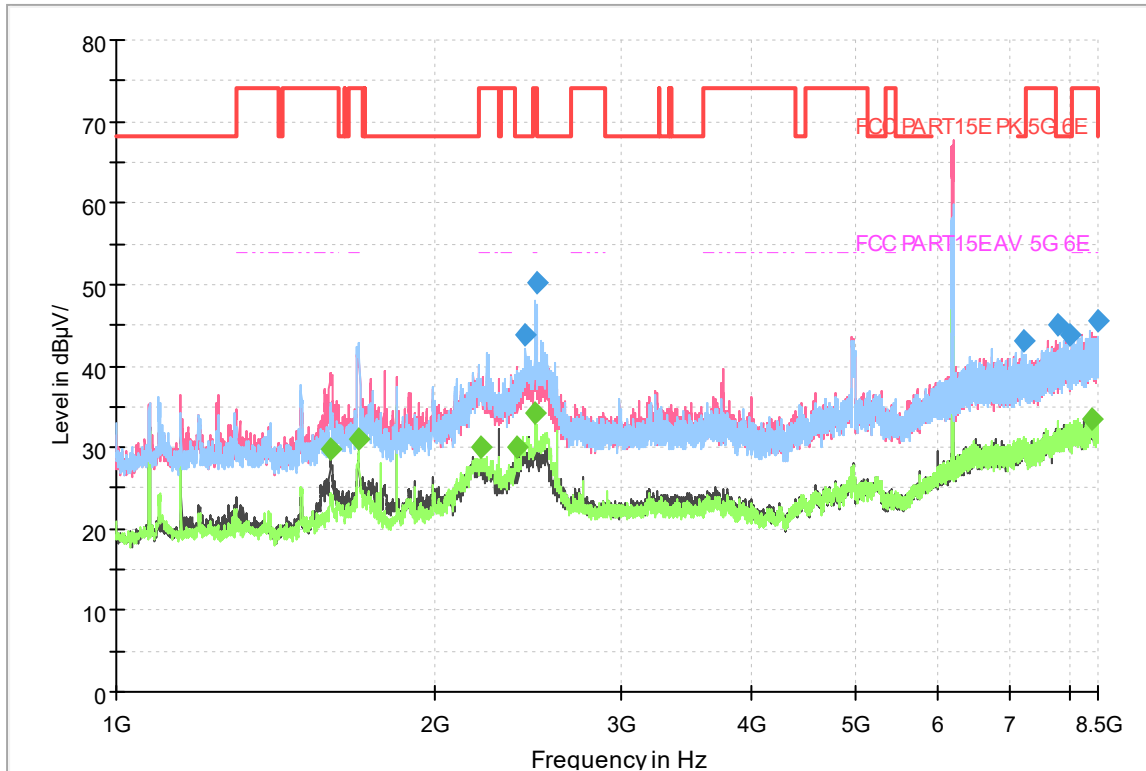


Fig.4 Radiated emission: 11ax 20M, Ch45, 1GHz-8.5GHz

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|-----|---------------|------------|
| 1596.522500     | ---              | 29.90            | 54.00          | 24.10       | 50.0       | 1000.000        | 150.0       | V   | 180.0         | -11.8      |
| 1697.522500     | ---              | 31.03            | 54.00          | 22.97       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -11.4      |
| 2213.422500     | ---              | 29.93            | 54.00          | 24.07       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -10.2      |
| 2392.555000     | ---              | 30.03            | 54.00          | 13.97       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | -9.6       |
| 2440.805000     | 43.90            | ---              | 68.20          | 24.30       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | -9.5       |
| 2496.035000     | ---              | 34.31            | 54.00          | 19.69       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2498.500000     | 50.21            | ---              | 74.00          | 23.79       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 7230.365500     | 42.99            | ---              | 68.20          | 25.21       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | 2.5        |
| 7779.946000     | 44.97            | ---              | 68.20          | 23.23       | 50.0       | 1000.000        | 150.0       | V   | 180.0         | 4.5        |
| 7995.757000     | 43.82            | ---              | 68.20          | 24.38       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | 5.2        |
| 8401.622000     | ---              | 33.48            | 54.00          | 20.52       | 50.0       | 1000.000        | 150.0       | V   | 270.0         | 5.7        |
| 8491.000000     | 45.49            | ---              | 74.00          | 28.51       | 50.0       | 1000.000        | 150.0       | V   | 90.0          | 5.5        |

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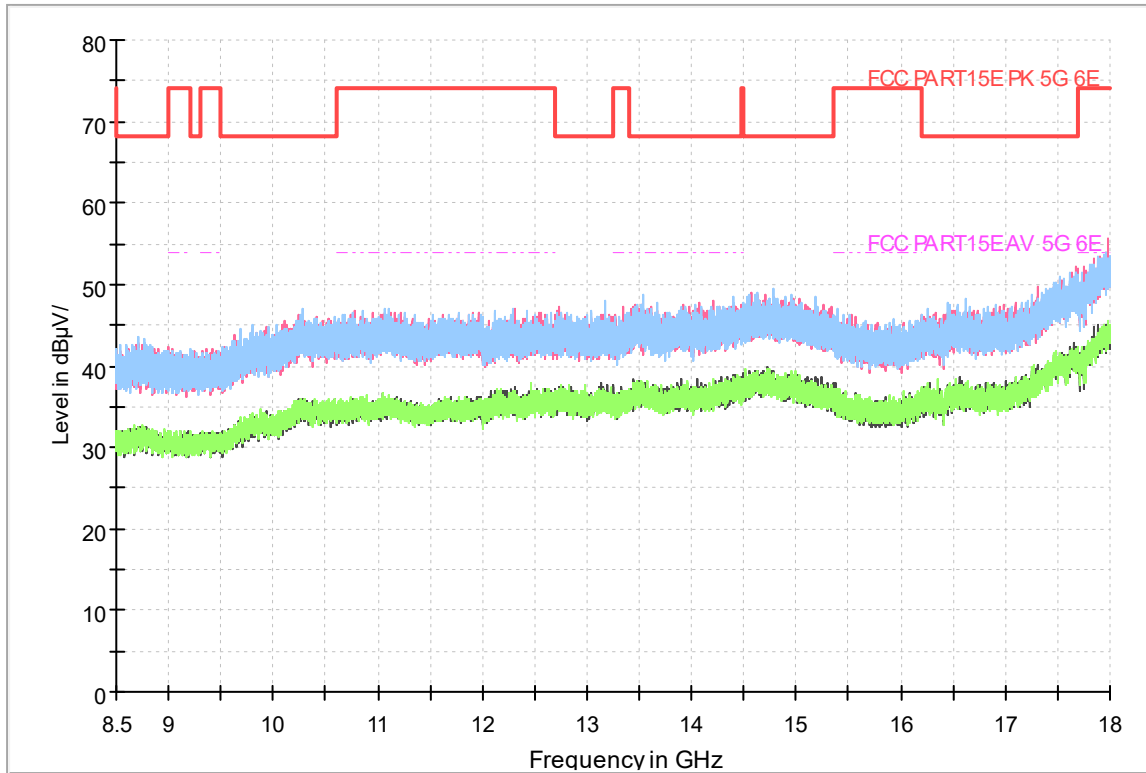


Fig.5 Radiated emission: 11ax 20M, Ch45, 8.5GHz-18GHz

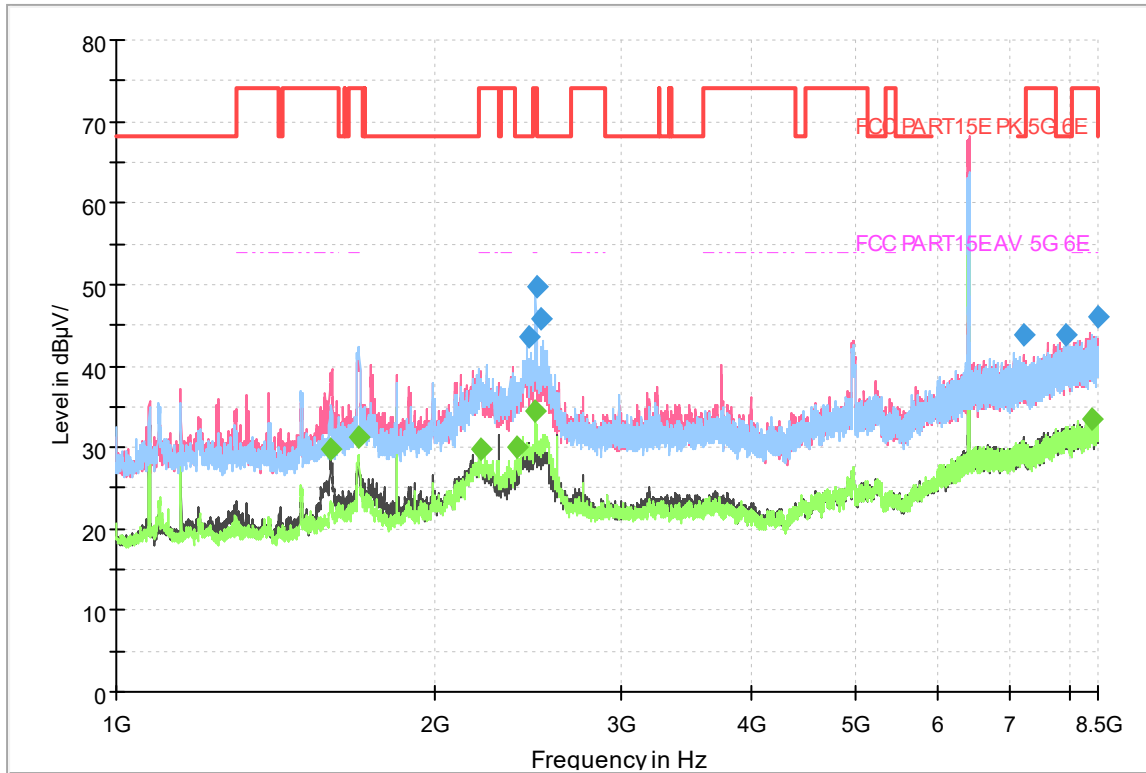


Fig.6 Radiated emission: 11ax 20M, Ch93, 1GHz-8.5GHz

## Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|-----|---------------|------------|
| 1597.027500     | ---              | 29.76            | 54.00          | 24.24       | 50.0       | 1000.000        | 150.0       | V   | 180.0         | -11.8      |
| 1697.515000     | ---              | 31.35            | 54.00          | 22.65       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -11.4      |
| 2212.452500     | ---              | 29.86            | 54.00          | 24.14       | 50.0       | 1000.000        | 150.0       | V   | 0.0           | -10.2      |
| 2394.052500     | ---              | 30.01            | 54.00          | 13.99       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | -9.6       |
| 2456.775000     | 43.48            | ---              | 68.20          | 24.72       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -9.4       |
| 2493.042500     | ---              | 34.36            | 54.00          | 19.64       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2499.000000     | 49.71            | ---              | 74.00          | 24.29       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2526.335000     | 45.75            | ---              | 68.20          | 22.45       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.1       |
| 7227.807500     | 43.81            | ---              | 68.20          | 24.39       | 50.0       | 1000.000        | 150.0       | V   | 90.0          | 2.5        |
| 7931.084000     | 43.92            | ---              | 68.20          | 24.28       | 50.0       | 1000.000        | 150.0       | V   | 0.0           | 5.2        |
| 8400.729000     | ---              | 33.36            | 54.00          | 20.64       | 50.0       | 1000.000        | 150.0       | V   | 0.0           | 5.7        |
| 8489.000000     | 46.02            | ---              | 74.00          | 27.98       | 50.0       | 1000.000        | 150.0       | V   | 90.0          | 5.5        |

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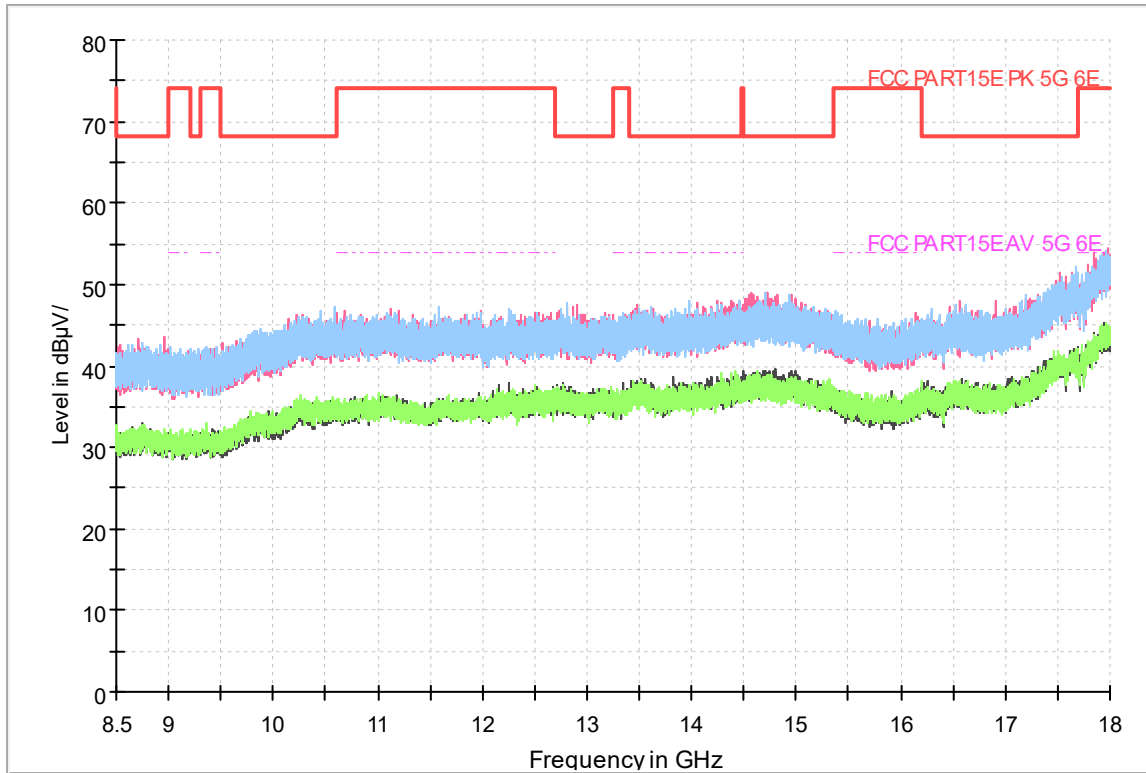


Fig.7 Radiated emission: 11ax 20M, Ch93, 8.5GHz-18GHz

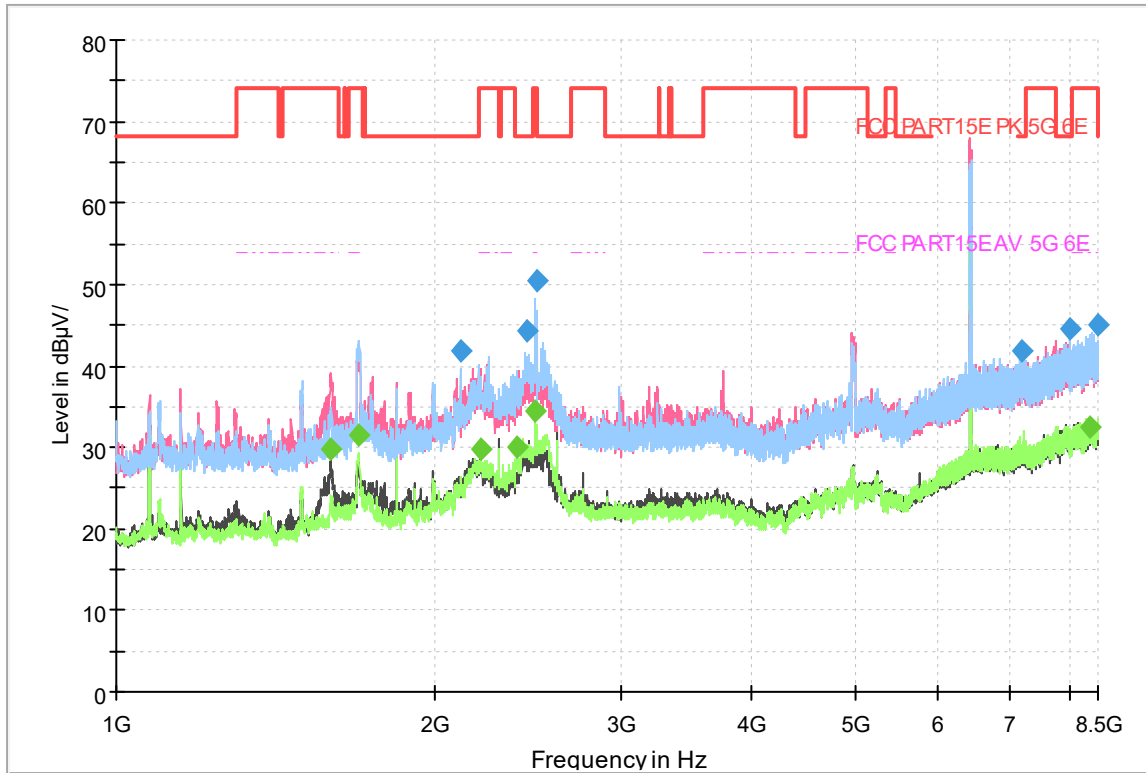


Fig.8 Radiated emission: 11ax 20M, Ch97, 1GHz-8.5GHz

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|-----|---------------|------------|
| 1596.512500     | ---              | 29.68            | 54.00          | 24.32       | 50.0       | 1000.000        | 150.0       | V   | 180.0         | -11.8      |
| 1697.522500     | ---              | 31.40            | 54.00          | 22.60       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -11.4      |
| 2122.387500     | 41.94            | ---              | 68.20          | 26.26       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -10.4      |
| 2212.952500     | ---              | 29.86            | 54.00          | 24.14       | 50.0       | 1000.000        | 150.0       | V   | 0.0           | -10.2      |
| 2392.050000     | ---              | 29.98            | 54.00          | 14.02       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | -9.6       |
| 2445.322500     | 44.30            | ---              | 68.20          | 23.90       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -9.4       |
| 2493.017500     | ---              | 34.40            | 54.00          | 19.60       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2497.500000     | 50.35            | ---              | 74.00          | 23.65       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 7194.040500     | 41.91            | ---              | 68.20          | 26.29       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | 2.4        |
| 8006.908000     | 44.48            | ---              | 68.20          | 23.72       | 50.0       | 1000.000        | 150.0       | V   | 90.0          | 5.2        |
| 8369.384500     | ---              | 32.51            | 54.00          | 21.49       | 50.0       | 1000.000        | 150.0       | V   | 270.0         | 5.5        |
| 8492.000000     | 44.94            | ---              | 74.00          | 29.06       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | 5.5        |

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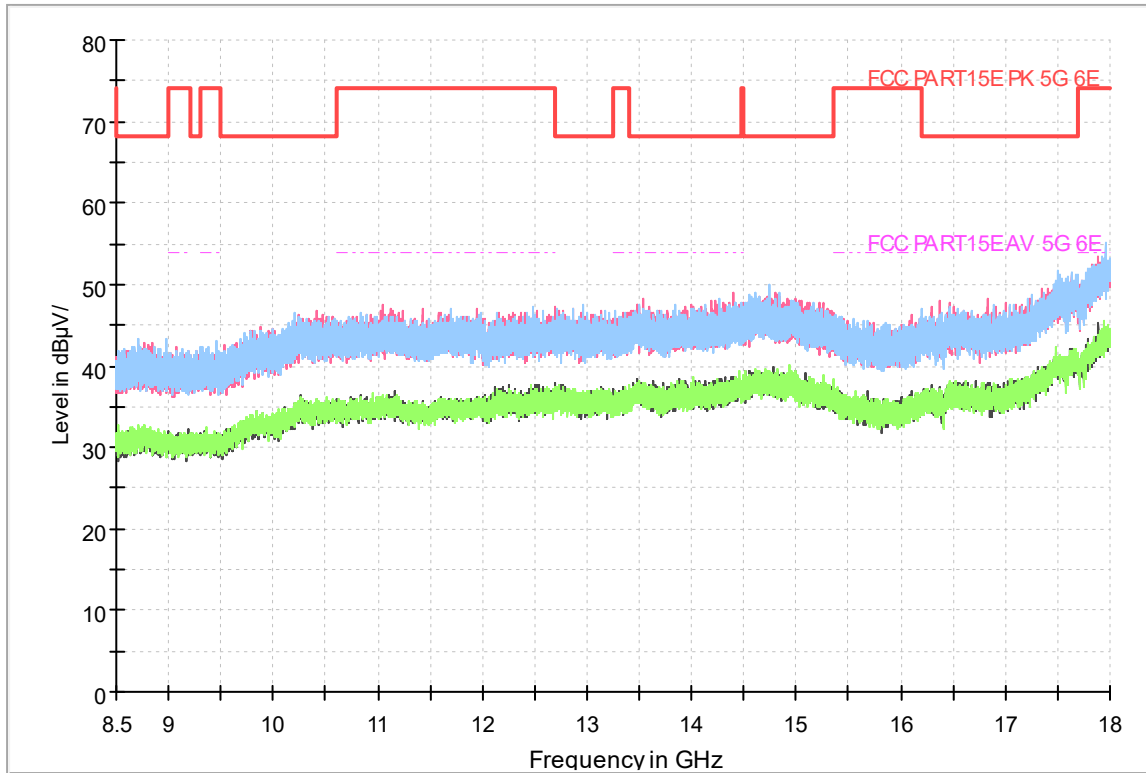


Fig.9 Radiated emission: 11ax 20M, Ch97, 8.5GHz-18GHz

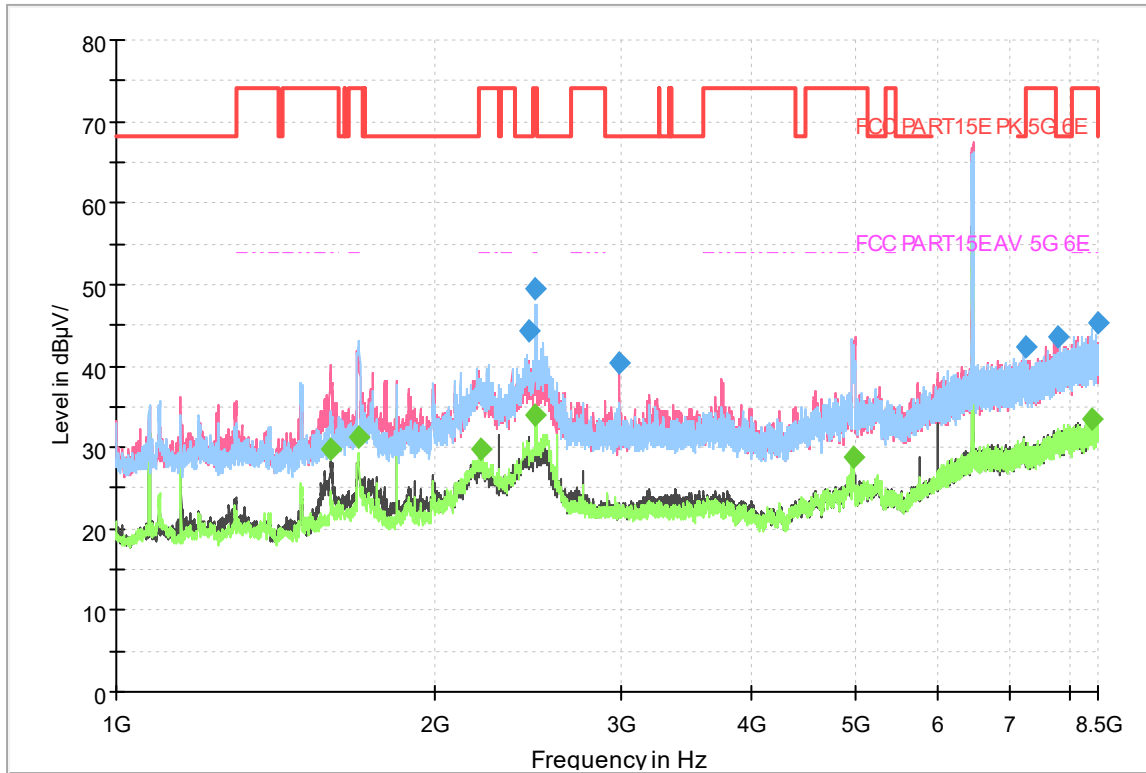


Fig.10 Radiated emission: 11ax 20M, Ch105, 1GHz-8.5GHz

## Final Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|-----|---------------|------------|
| 1596.522500     | ---              | 29.85            | 54.00          | 24.15       | 50.0       | 1000.000        | 150.0       | V   | 180.0         | -11.8      |
| 1697.512500     | ---              | 31.25            | 54.00          | 22.75       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -11.4      |
| 2211.977500     | ---              | 29.80            | 54.00          | 24.20       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -10.2      |
| 2453.777500     | 44.40            | ---              | 68.20          | 23.80       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -9.4       |
| 2494.500000     | 49.56            | ---              | 74.00          | 24.44       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2496.020000     | ---              | 34.05            | 54.00          | 19.95       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2994.540000     | 40.33            | ---              | 68.20          | 27.87       | 50.0       | 1000.000        | 150.0       | V   | 90.0          | -7.8       |
| 4981.112500     | ---              | 28.90            | 54.00          | 25.10       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -2.5       |
| 7247.591000     | 42.34            | ---              | 68.20          | 25.86       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | 2.5        |
| 7798.659000     | 43.46            | ---              | 68.20          | 24.74       | 50.0       | 1000.000        | 150.0       | V   | 270.0         | 4.4        |
| 8401.525000     | ---              | 33.52            | 54.00          | 20.48       | 50.0       | 1000.000        | 150.0       | V   | 90.0          | 5.7        |
| 8499.000000     | 45.39            | ---              | 74.00          | 28.61       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | 5.4        |

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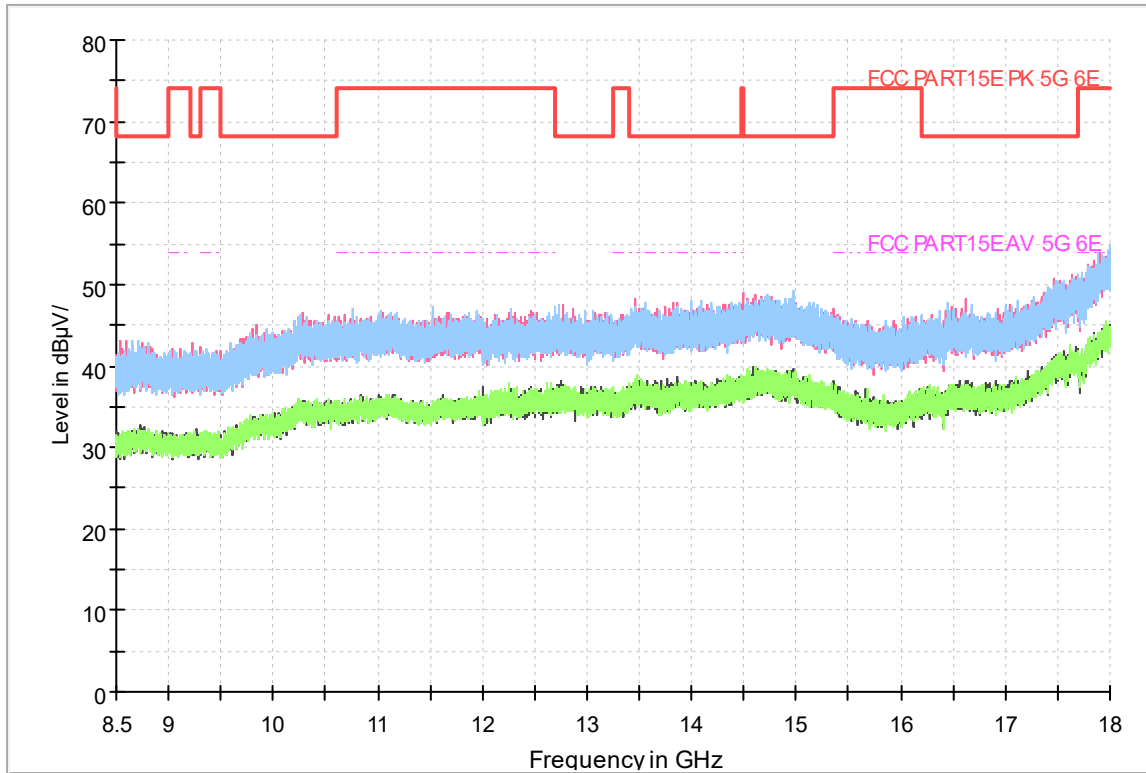


Fig.11 Radiated emission: 11ax 20M, Ch105, 8.5GHz-18GHz

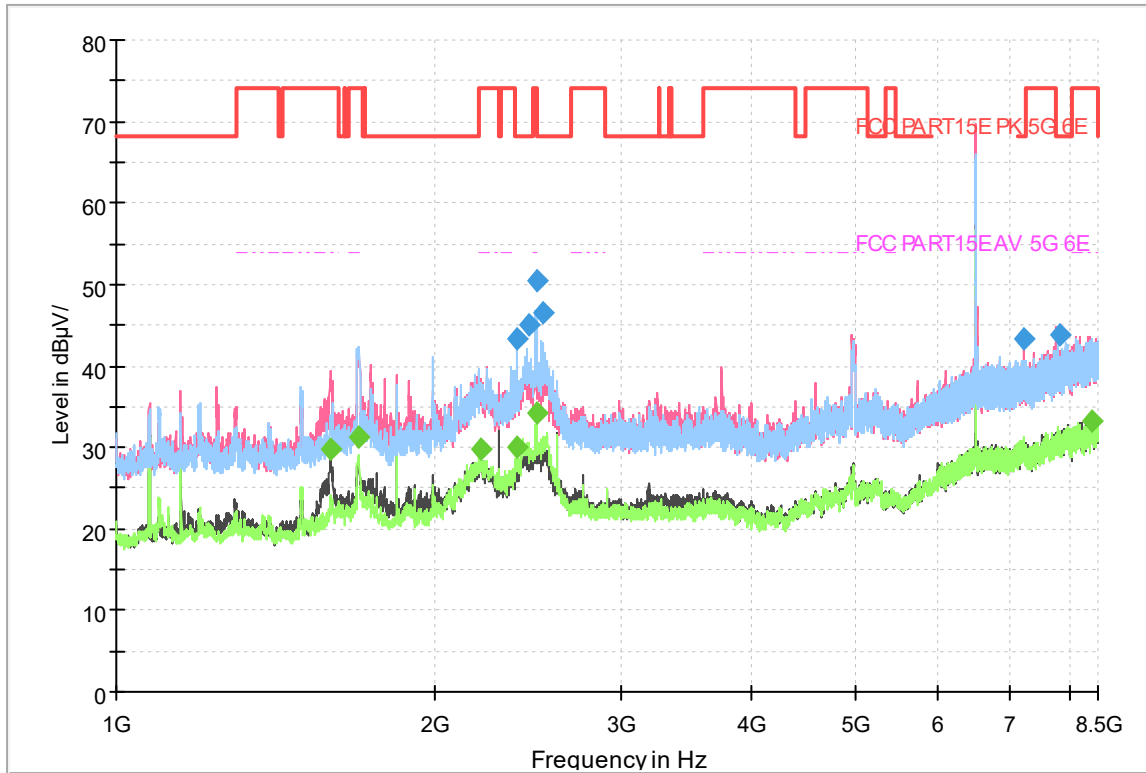


Fig.12 Radiated emission: 11ax 20M, Ch113, 1GHz-8.5GHz

### Final\_Result

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Meas. Time | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------|------------------|----------------|-------------|------------|-----------------|-------------|-----|---------------|------------|
| 1596.507500     | ---              | 29.88            | 54.00          | 24.12       | 50.0       | 1000.000        | 150.0       | V   | 180.0         | -11.8      |
| 1697.525000     | ---              | 31.25            | 54.00          | 22.75       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -11.4      |
| 2213.485000     | ---              | 29.85            | 54.00          | 24.15       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -10.2      |
| 2392.032500     | 43.33            | ---              | 68.20          | 24.88       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -9.6       |
| 2392.055000     | ---              | 29.93            | 54.00          | 14.07       | 50.0       | 1000.000        | 150.0       | H   | 270.0         | -9.6       |
| 2457.740000     | 45.00            | ---              | 68.20          | 23.20       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | -9.4       |
| 2497.500000     | 50.46            | ---              | 74.00          | 23.54       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2497.520000     | ---              | 34.18            | 54.00          | 19.82       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.2       |
| 2531.360000     | 46.55            | ---              | 68.20          | 21.65       | 50.0       | 1000.000        | 150.0       | H   | 0.0           | -9.0       |
| 7223.370000     | 43.37            | ---              | 68.20          | 24.83       | 50.0       | 1000.000        | 150.0       | V   | 270.0         | 2.5        |
| 7818.460500     | 43.76            | ---              | 68.20          | 24.44       | 50.0       | 1000.000        | 150.0       | H   | 90.0          | 4.4        |
| 8404.507500     | ---              | 33.27            | 54.00          | 20.73       | 50.0       | 1000.000        | 150.0       | V   | 270.0         | 5.7        |

### Chongqing Academy of Information and Communication Technology

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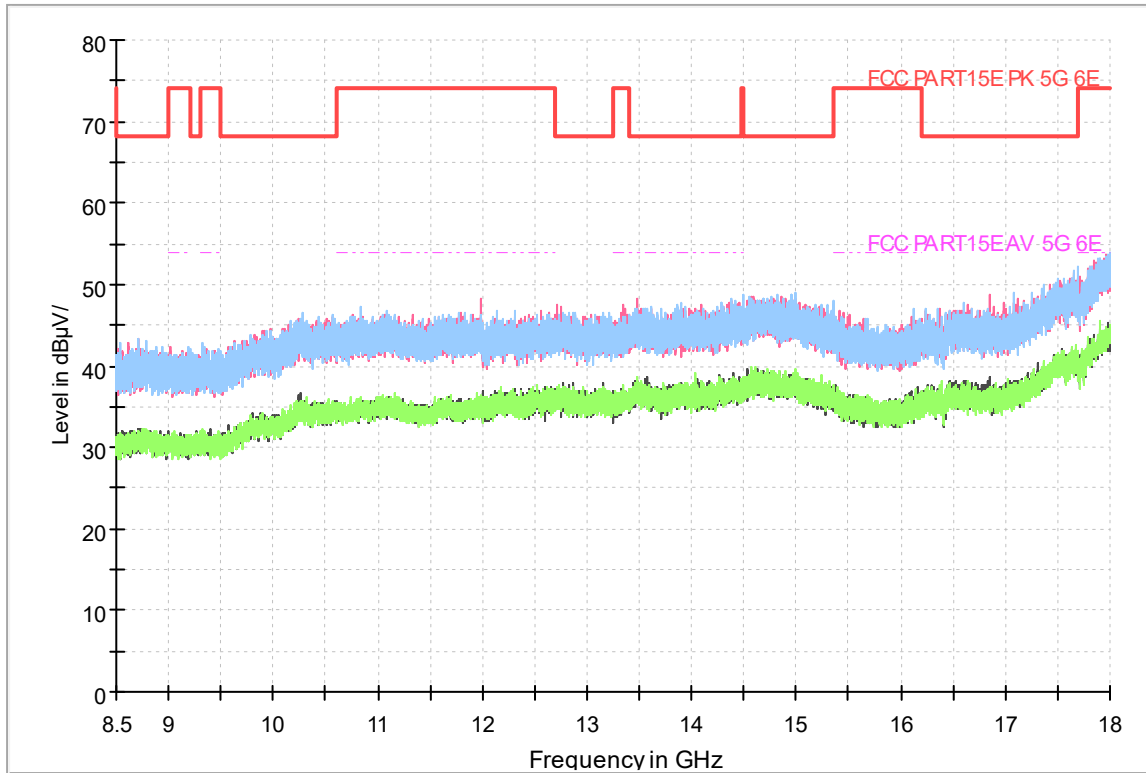


Fig.13 Radiated emission: 11ax 20M, Ch113, 8.5GHz-18GHz