

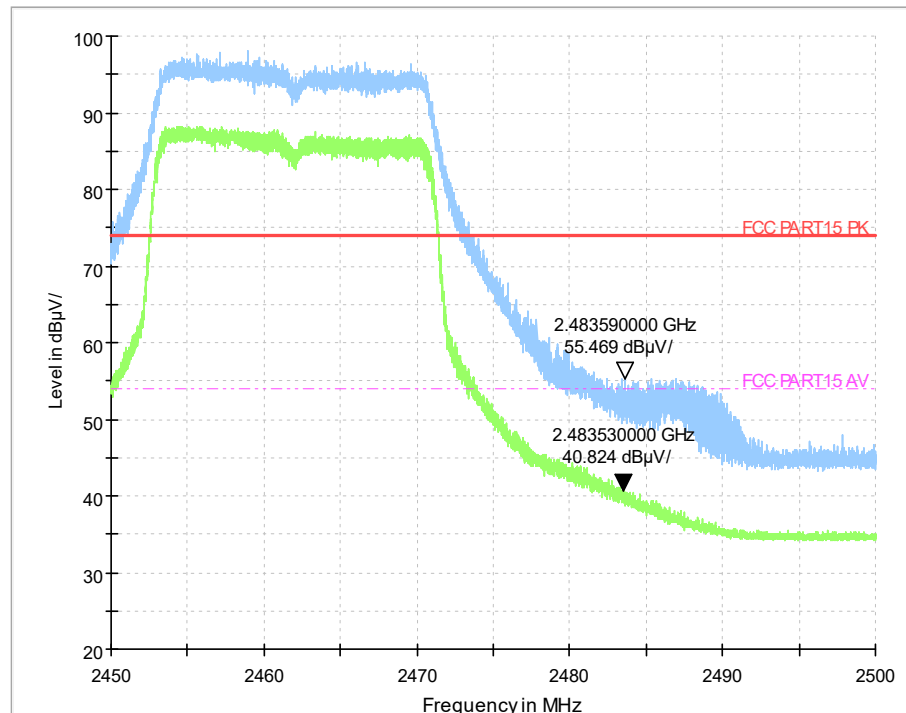


Fig.114 Frequency Band Edge: Ch11,11n(20M)

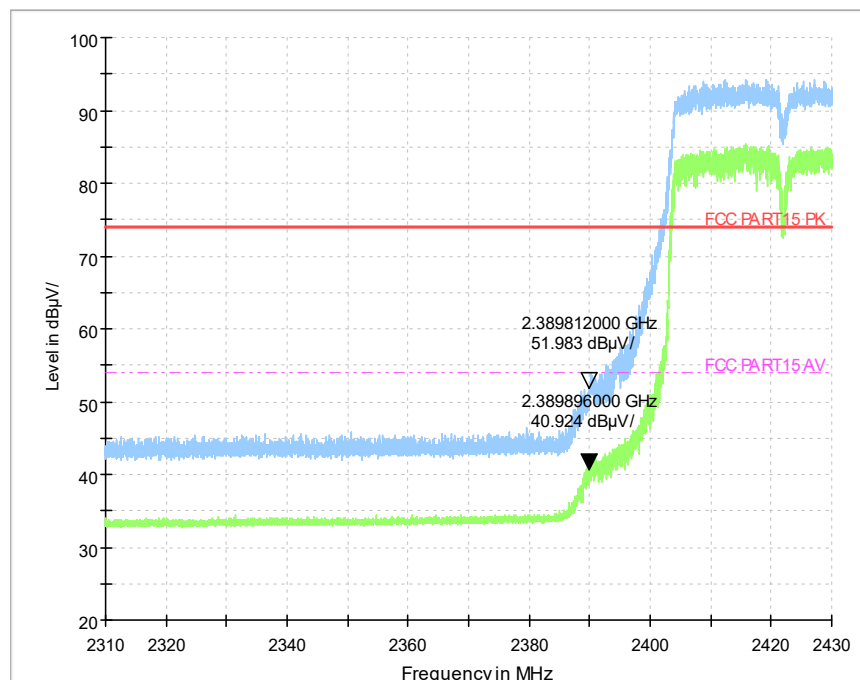


Fig.115 Frequency Band Edge: Ch3,11n(40M)

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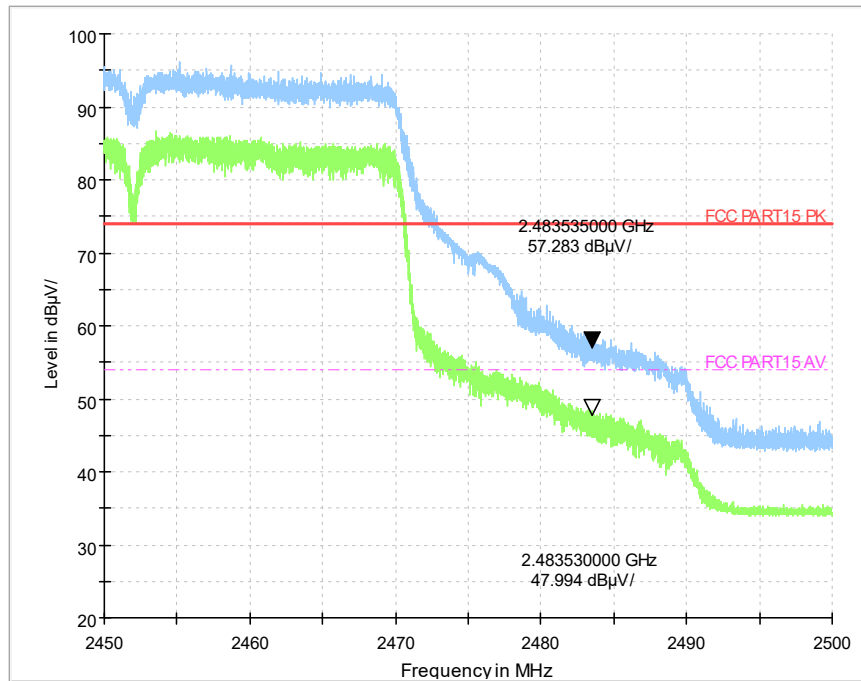


Fig.116 Frequency Band Edge: Ch9,11n(40M)

## 6.6. Transmitter Spurious Emission-Conducted

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC 47 CFR Part15.247 (d)                                                           |
| <b>DUT Serial Number:</b> | 865171050693608                                                                     |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | Pass                                                                                |

### Limit

| Standard                  | Limit                                            |
|---------------------------|--------------------------------------------------|
| FCC 47 CFR Part15.247 (d) | 20dB below peak output power in 100KHz bandwidth |

### Measurement Uncertainty:

| Frequency Range                         | Uncertainty |
|-----------------------------------------|-------------|
| $30\text{MHz} \leq f \leq 26\text{GHz}$ | $\pm 2.7$   |

### Test Procedure

This measurement is according to ANSI C63.10 clause 11.11.

1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.

2. Enable EUT transmitter maximum power continuously.

Reference level measurement

3. Set instrument center frequency to DTS channel center frequency.
4. Set the span to  $\geq 1.5$  times the DTS bandwidth.
5. Set the RBW = 100 kHz.
6. Set the VBW  $\geq [3 \times \text{RBW}]$ .
7. Detector = peak.
8. Sweep time = auto couple.
9. Trace mode = max hold.
10. Allow trace to fully stabilize.

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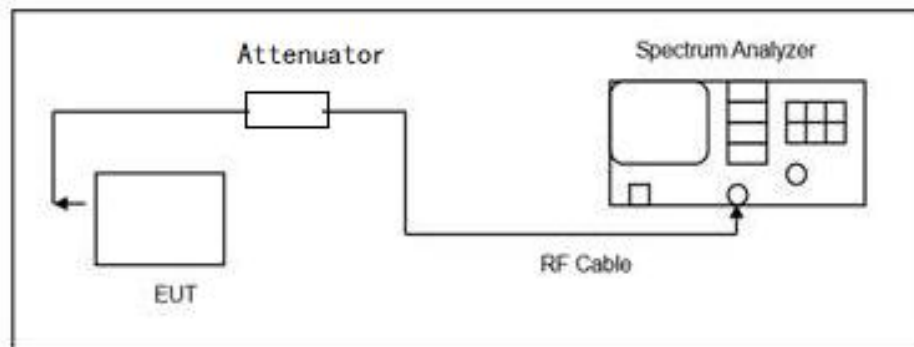
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11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

12. Set the center frequency and span to encompass frequency range to be measured.
13. Set the RBW = 100 kHz.
14. Set the VBW  $\geq [3 \times \text{RBW}]$ .
15. Detector = peak.
16. Sweep time = auto couple.
17. Trace mode = max hold.
18. Allow trace to fully stabilize.
19. Use the peak marker function to determine the maximum amplitude level.

**Test block diagram:**



**Test Result:**

**802.11b/g mode**

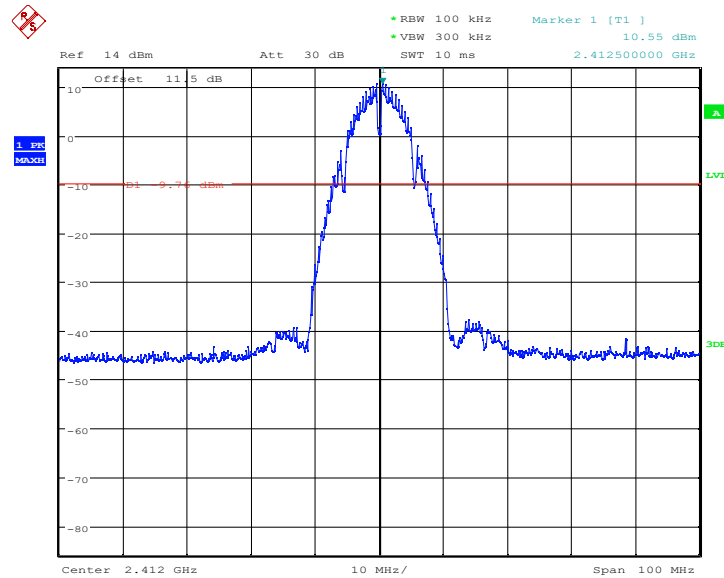
| Mode    | Channel | Frequency Range | Test Results | Conclusion |
|---------|---------|-----------------|--------------|------------|
| 802.11b | 1       | 2.412GHz        | Fig.117      | Pass       |
|         |         | 30MHz~26GHz     | Fig.118      | Pass       |
|         | 6       | 2.437GHz        | Fig.119      | Pass       |
|         |         | 30MHz~26GHz     | Fig.120      | Pass       |
|         | 11      | 2.462GHz        | Fig.121      | Pass       |
|         |         | 30MHz~26GHz     | Fig.122      | Pass       |
| 802.11g | 1       | 2.412GHz        | Fig.123      | Pass       |
|         |         | 30MHz~26GHz     | Fig.124      | Pass       |
|         | 6       | 2.437GHz        | Fig.125      | Pass       |
|         |         | 30MHz~26GHz     | Fig.126      | Pass       |
|         | 11      | 2.462GHz        | Fig.127      | Pass       |
|         |         | 30MHz~26GHz     | Fig.128      | Pass       |

**802.11n mode**

| Mode               | Channel | Frequency Range | Test Results | Conclusion |
|--------------------|---------|-----------------|--------------|------------|
| 802.11n<br>(20MHz) | 1       | 2.412GHz        | Fig.129      | Pass       |
|                    |         | 30MHz~26GHz     | Fig.130      | Pass       |
|                    | 6       | 2.437GHz        | Fig.131      | Pass       |
|                    |         | 30MHz~26GHz     | Fig.132      | Pass       |
|                    | 11      | 2.462GHz        | Fig.133      | Pass       |
|                    |         | 30MHz~26GHz     | Fig.134      | Pass       |
| 802.11n<br>(40MHz) | 3       | 2.422GHz        | Fig.135      | Pass       |
|                    |         | 30MHz~26GHz     | Fig.136      | Pass       |
|                    | 7       | 2.442GHz        | Fig.137      | Pass       |
|                    |         | 30MHz~26GHz     | Fig.138      | Pass       |
|                    | 11      | 2.462GHz        | Fig.139      | Pass       |
|                    |         | 30MHz~26GHz     | Fig.140      | Pass       |

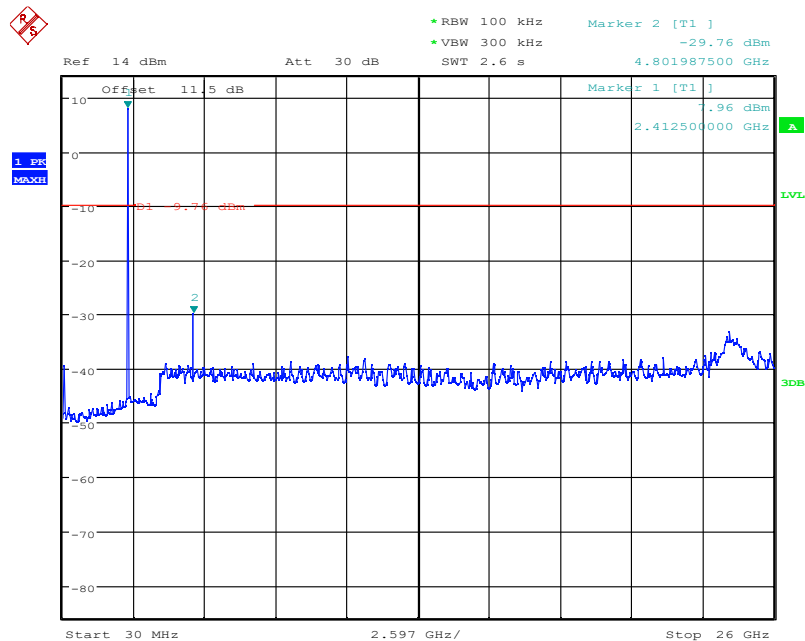
**Conclusion: PASS**

Test figure as below:



Date: 10.NOV.2021 00:59:13

Fig.117 Conducted spurious emission: Ch1,11b,2412MHz

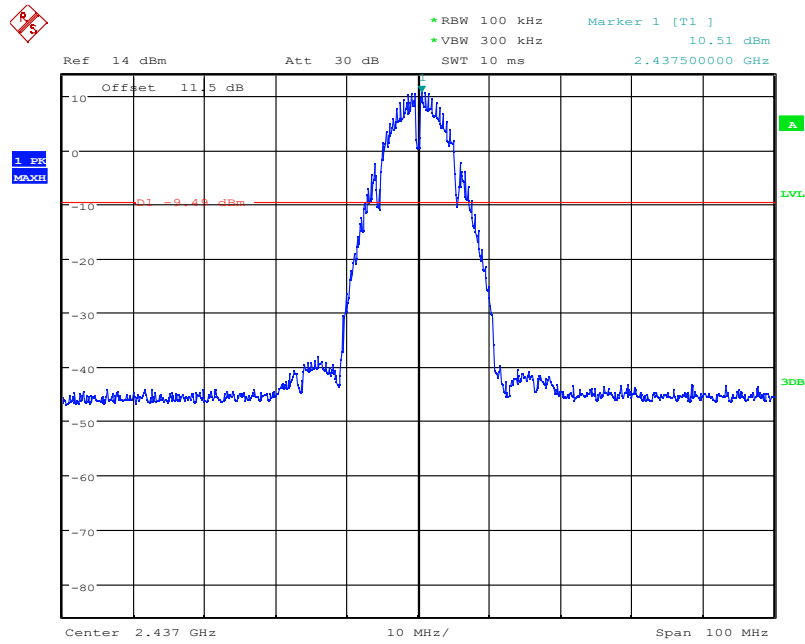


Date: 10.NOV.2021 00:59:36

Fig.118 Conducted spurious emission: Ch1,11b,30MHz~26GHz

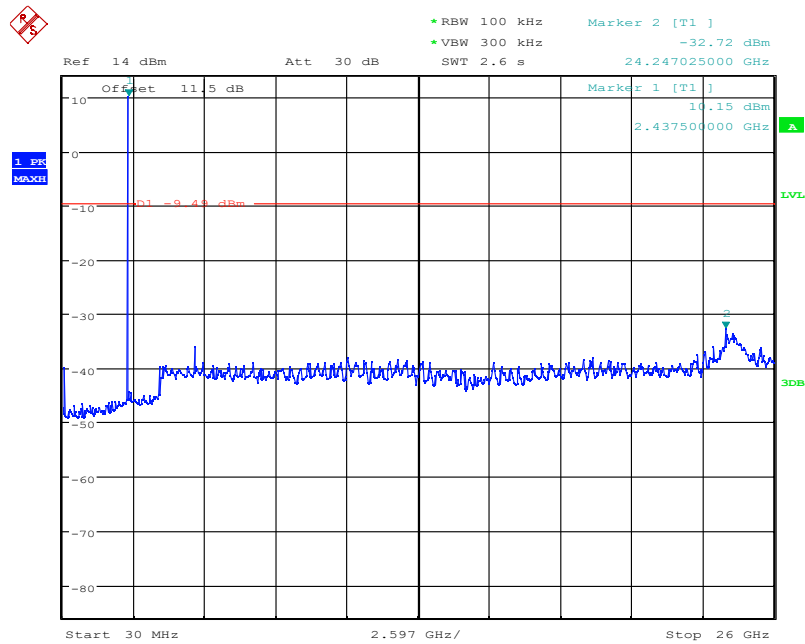
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Date: 10.NOV.2021 01:01:02

Fig.119 Conducted spurious emission: Ch6,11b,2437MHz

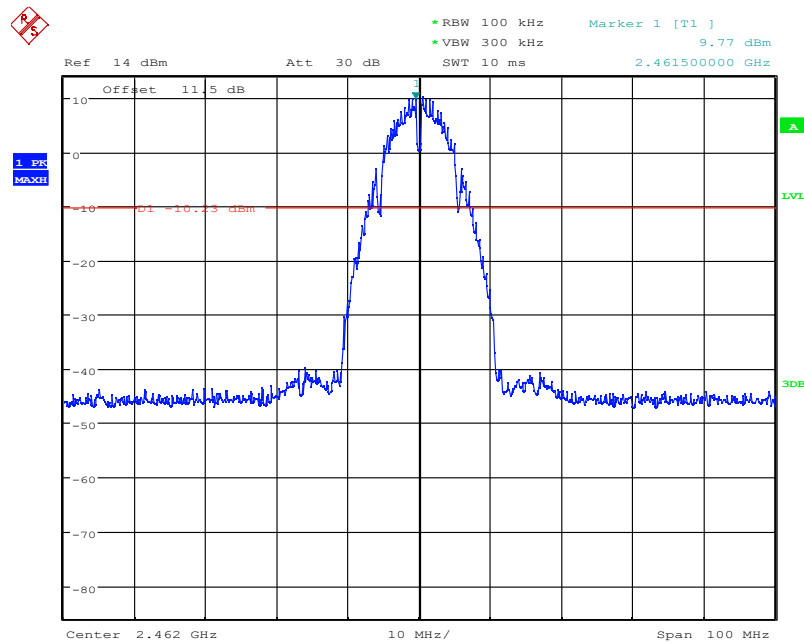


Date: 10.NOV.2021 01:01:37

Fig.120 Conducted spurious emission: Ch6,11b,30MHz~26GHz

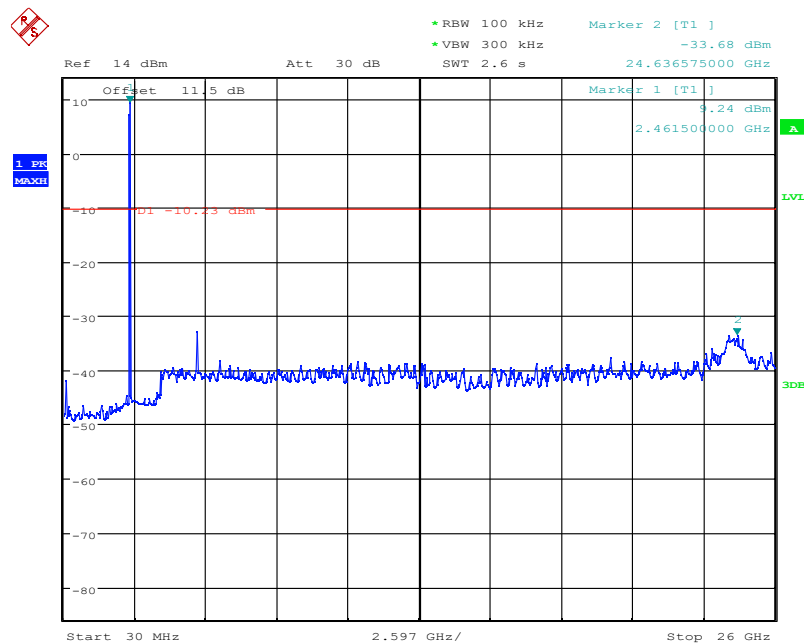
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Date: 10.NOV.2021 01:02:45

Fig.121 Conducted spurious emission: Ch11,11b,2462MHz

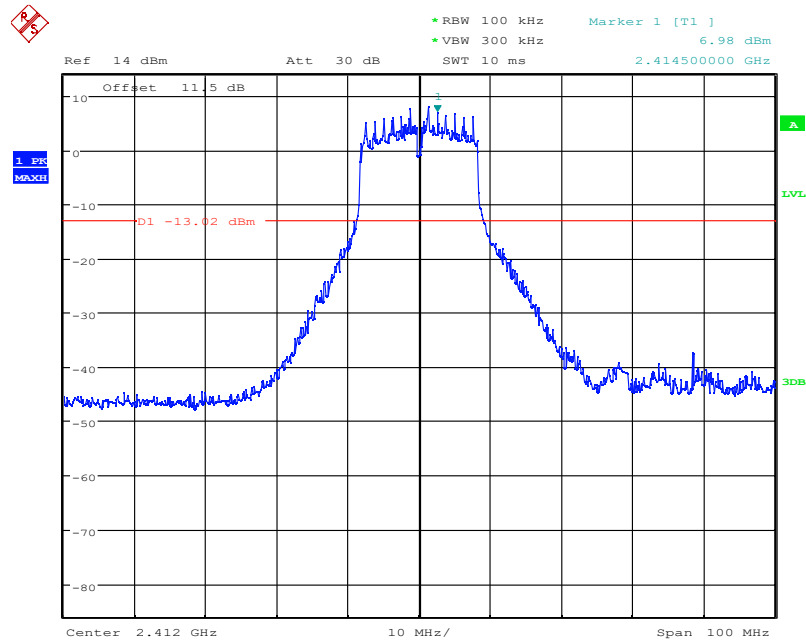


Date: 10.NOV.2021 01:03:21

Fig.122 Conducted spurious emission: Ch11,11b,30MHz~26GHz

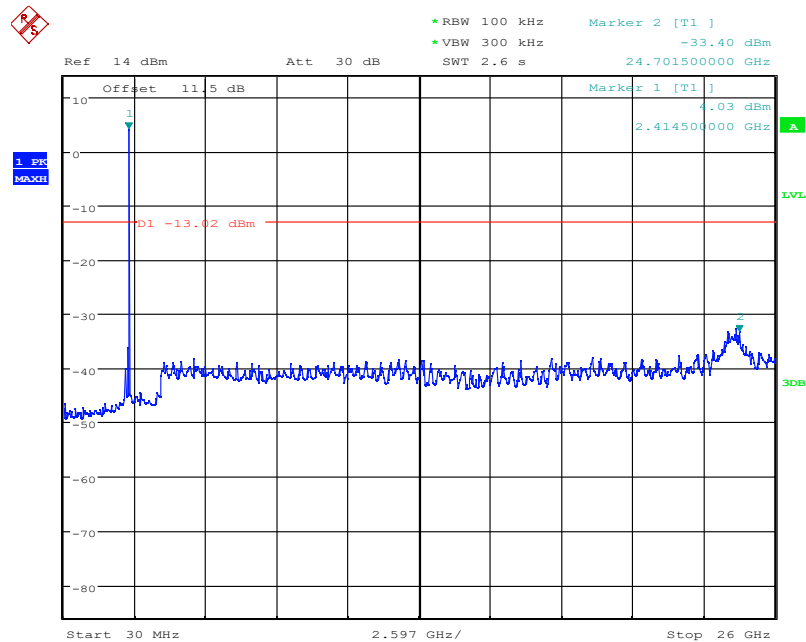
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Date: 10.NOV.2021 01:06:56

Fig.123 Conducted spurious emission: Ch1,11g,2412MHz

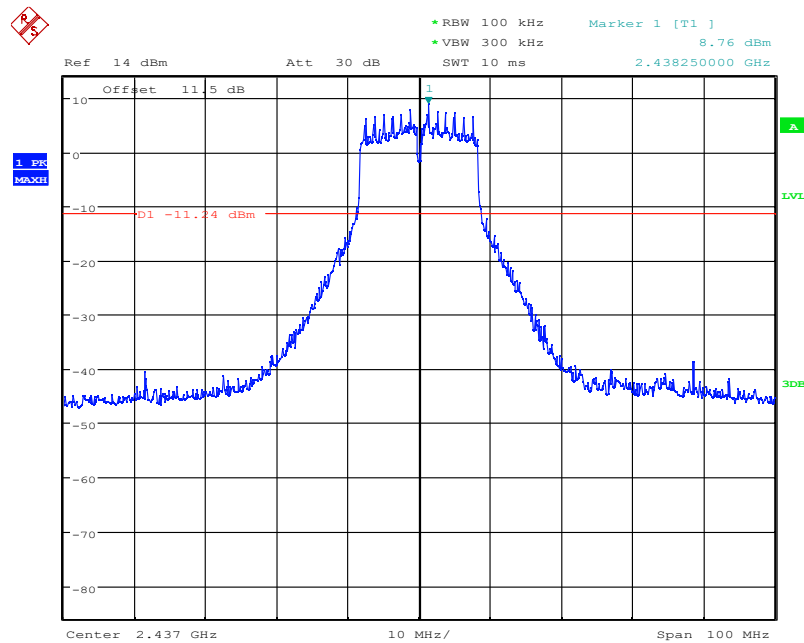


Date: 10.NOV.2021 01:07:24

Fig.124 Conducted spurious emission: Ch1,11g,30MHz~26GHz

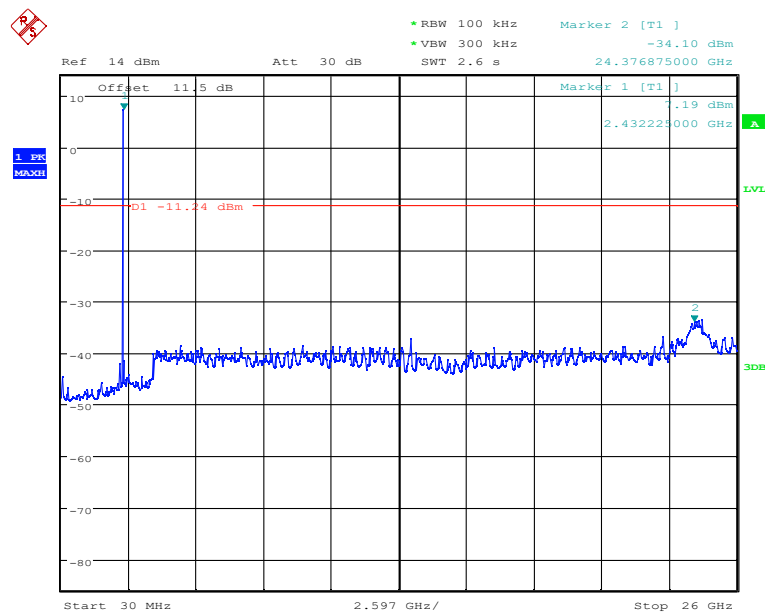
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Date: 10.NOV.2021 01:05:34

Fig.125 Conducted spurious emission: Ch6,11g,2437MHz

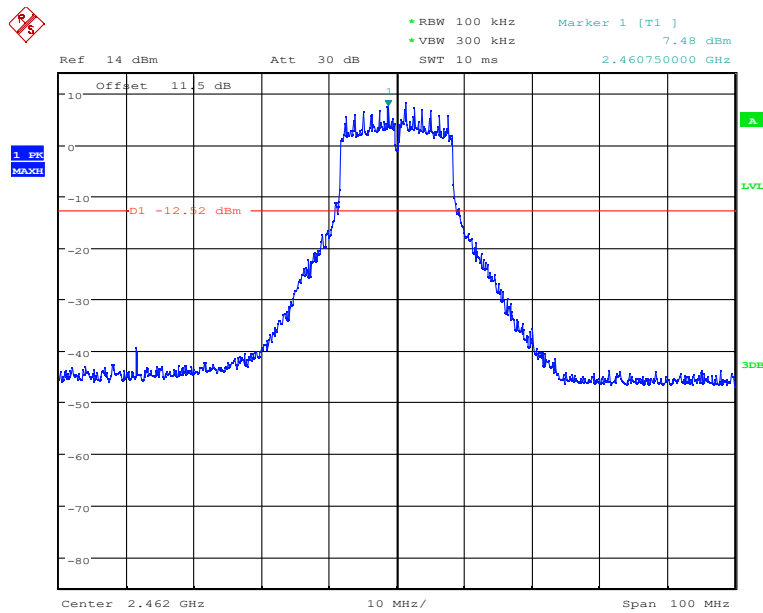


Date: 10.NOV.2021 01:05:58

Fig.126 Conducted spurious emission: Ch6,11g,30MHz~26GHz

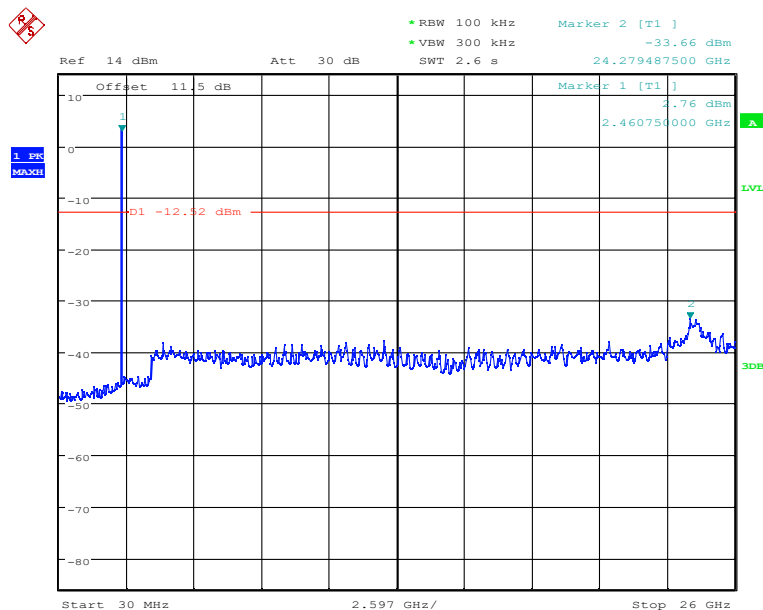
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Date: 10.NOV.2021 01:04:25

Fig.127 Conducted spurious emission: Ch11,11g,2462MHz

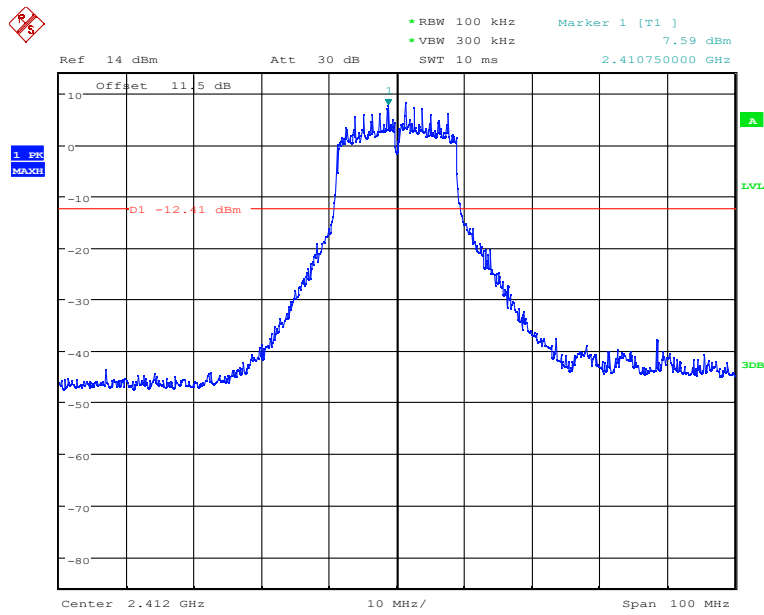


Date: 10.NOV.2021 01:04:51

Fig.128 Conducted spurious emission: Ch11,11g,30MHz~26GHz

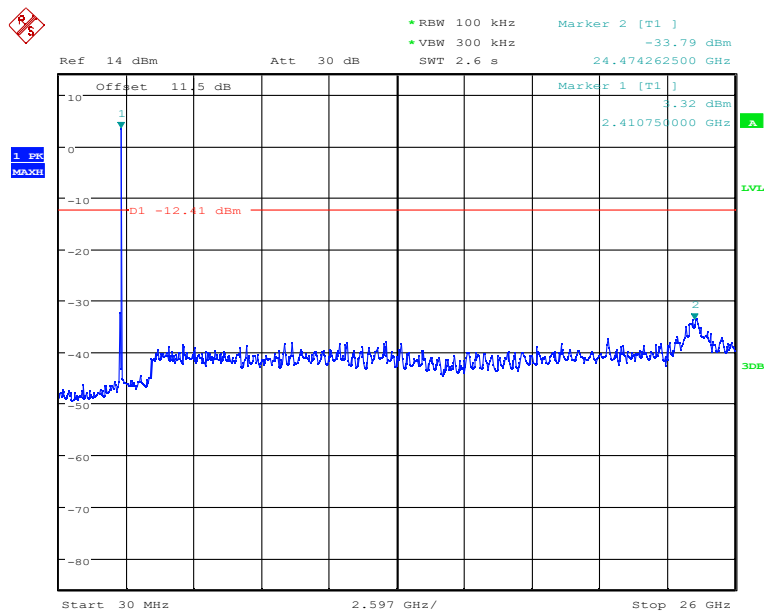
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Date: 10.NOV.2021 01:08:13

Fig.129 Conducted spurious emission: Ch1,11n,2412MHz

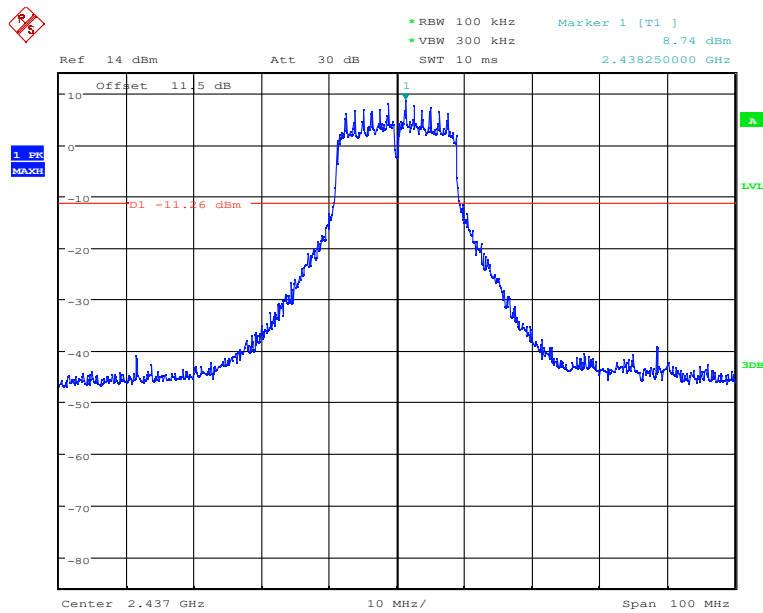


Date: 10.NOV.2021 01:08:34

Fig.130 Conducted spurious emission: Ch1,11n,30MHz~26GHz

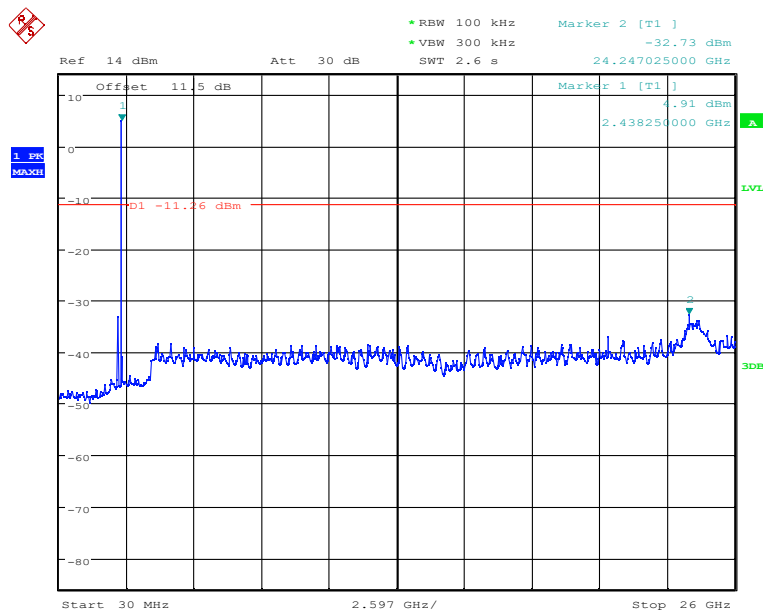
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Date: 10.NOV.2021 01:09:29

Fig.131 Conducted spurious emission: Ch6,11n,2437MHz

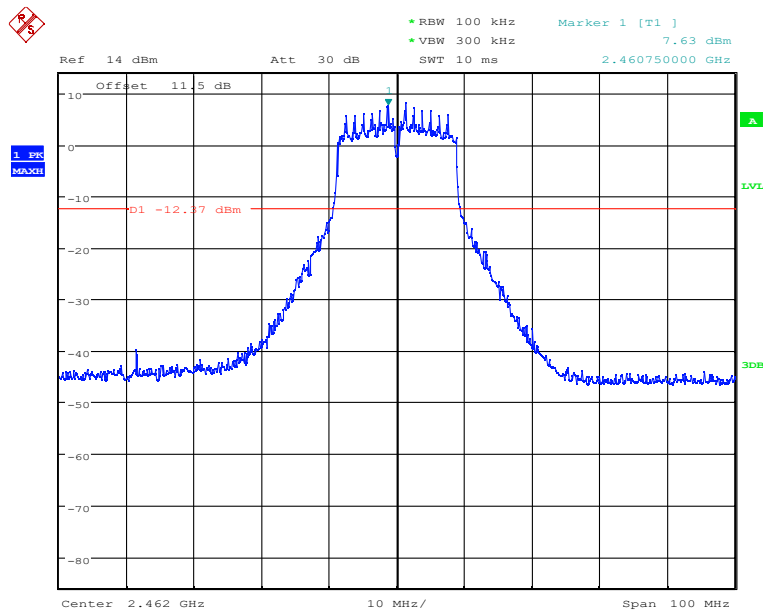


Date: 10.NOV.2021 01:09:56

Fig.132 Conducted spurious emission: Ch6,11n,30MHz~26GHz

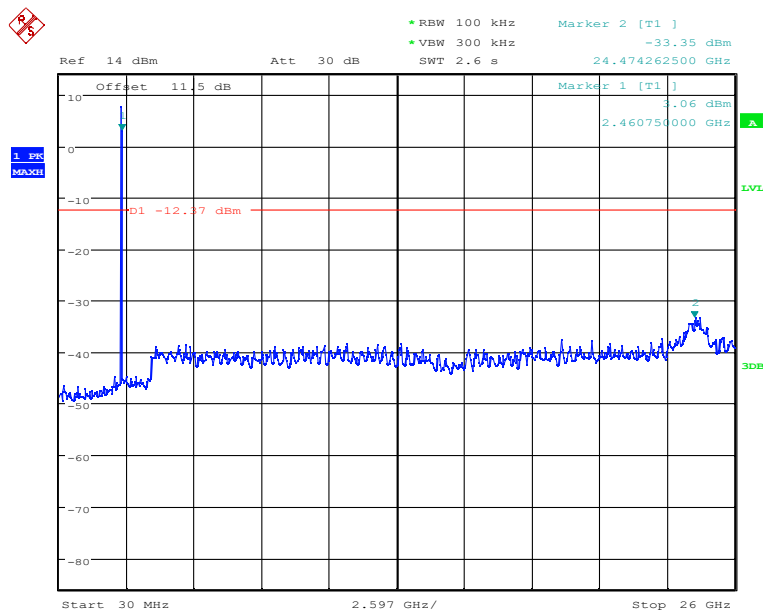
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Date: 10.NOV.2021 01:11:11

Fig.133 Conducted spurious emission: Ch11,11n,2462MHz

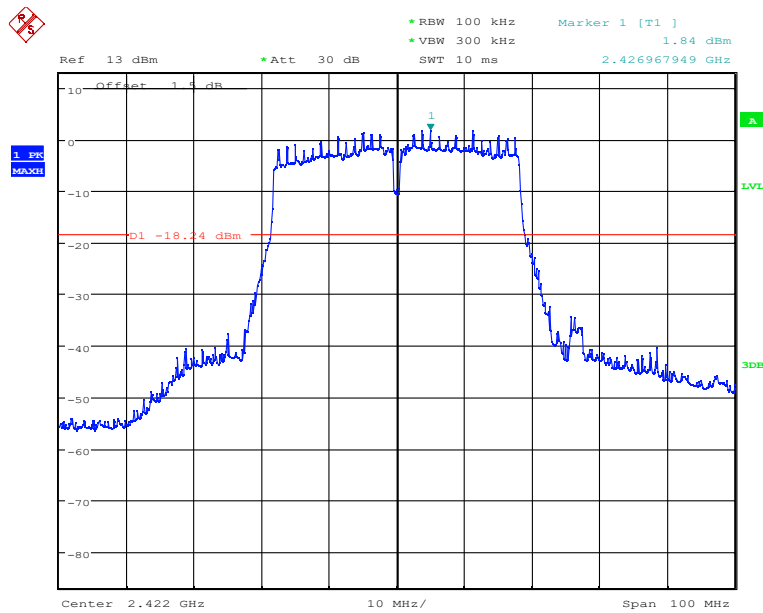


Date: 10.NOV.2021 01:11:36

Fig.134 Conducted spurious emission: Ch11,11n,30MHz~26GHz

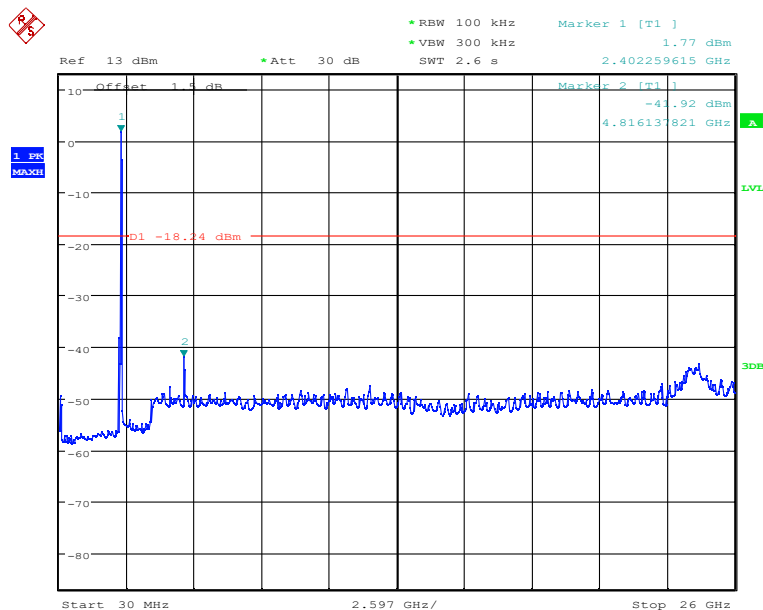
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Date: 10.NOV.2021 22:27:35

Fig.135 Conducted spurious emission: Ch3,11n(40M),2422MHz

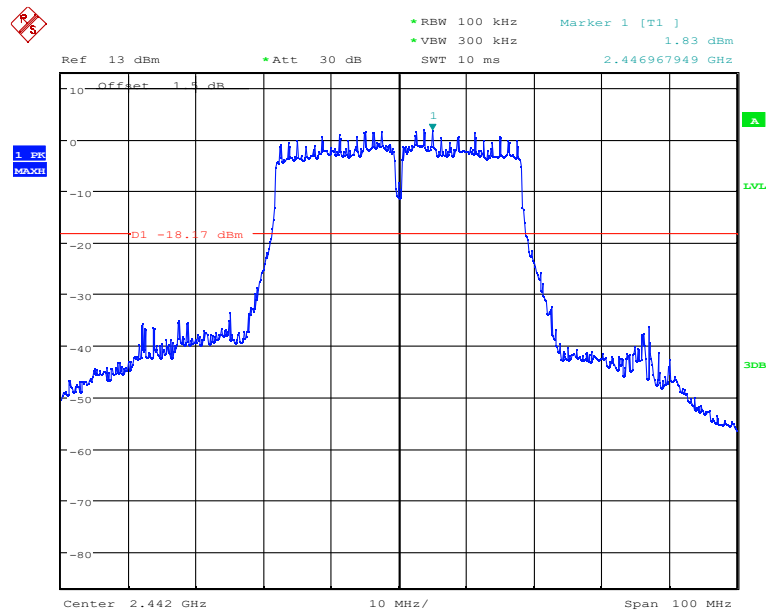


Date: 10.NOV.2021 22:28:04

Fig.136 Conducted spurious emission: Ch3,11n(40M),30MHz~26GHz

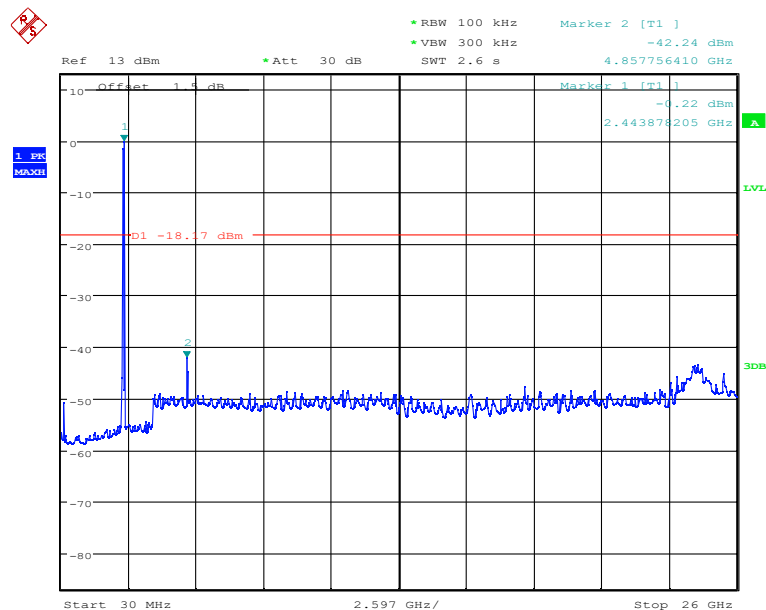
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Date: 10.NOV.2021 22:28:53

Fig.137 Conducted spurious emission: Ch7,11n(40M),2442MHz

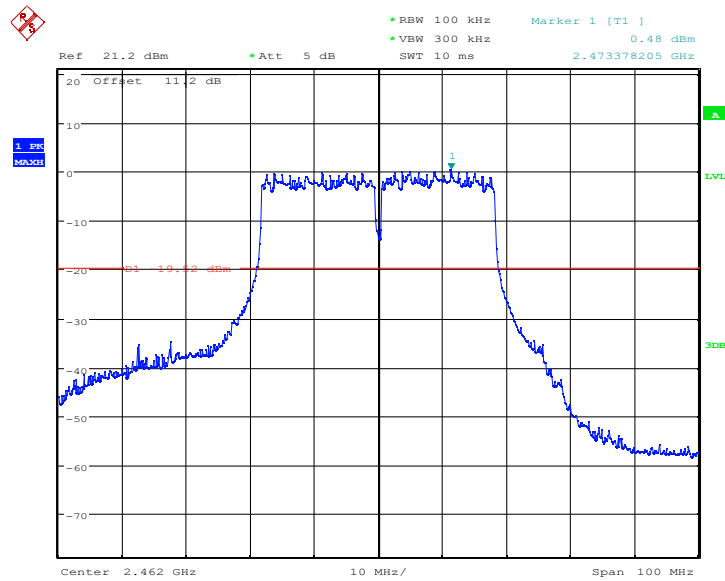


Date: 10.NOV.2021 22:29:12

Fig.138 Conducted spurious emission: Ch7,11n(40M),30MHz~26GHz

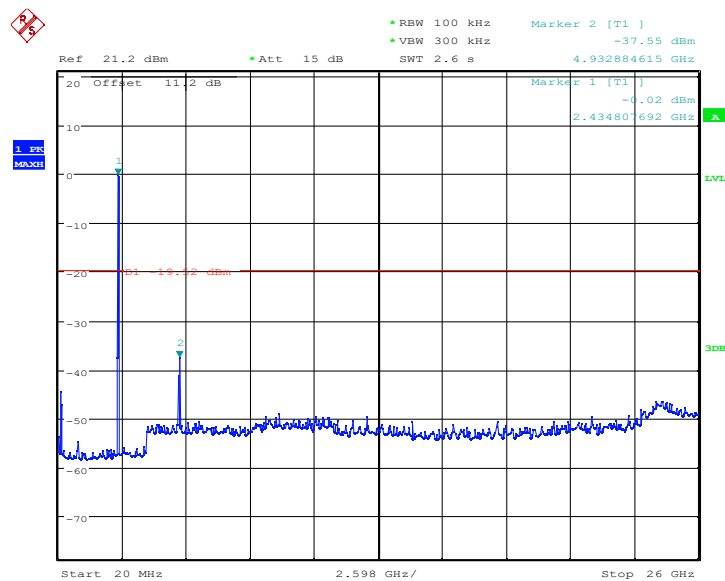
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Date: 28.NOV.2021 08:15:00

Fig.139 Conducted spurious emission: Ch11,11n(40M),2462MHz



Date: 28.NOV.2021 08:15:56

Fig.140 Conducted spurious emission: Ch11,11n(40M),30MHz~26GHz

### 6.7. Transmitter Spurious Emission-Radiated

|                                                                                                                |                                                                                     |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>                                                                                         | FCC 47 CFR Part 15.247, 15.205, 15.209                                              |
| <b>DUT Serial Number:</b>                                                                                      | 865171050693269<br>M900332GYA111300009                                              |
| <b>Test conditions:</b>                                                                                        | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>                                                                                           | Pass                                                                                |
| Note:There are two kinds of antennas in this test, and the data reflect the worst data with large antenna gain |                                                                                     |

#### Limit

| Standard                               | Limit                        |
|----------------------------------------|------------------------------|
| FCC 47 CFR Part 15.247, 15.205, 15.209 | 20dB below peak output power |

In addition, 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)).

#### Measurement Uncertainty:

| Frequency Range                           | Uncertainty |
|-------------------------------------------|-------------|
| $9\text{kHz} \leq f \leq 30\text{MHz}$    | 4.54dB      |
| $30\text{MHz} \leq f \leq 1\text{GHz}$    | 4.09dB      |
| $1\text{GHz} \leq f \leq 6\text{GHz}$     | 4.84dB      |
| $6\text{GHz} \leq f \leq 18\text{GHz}$    | 4.52dB      |
| $18\text{GHz} \leq f \leq 26.5\text{GHz}$ | 6.19dB      |

#### 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                            |

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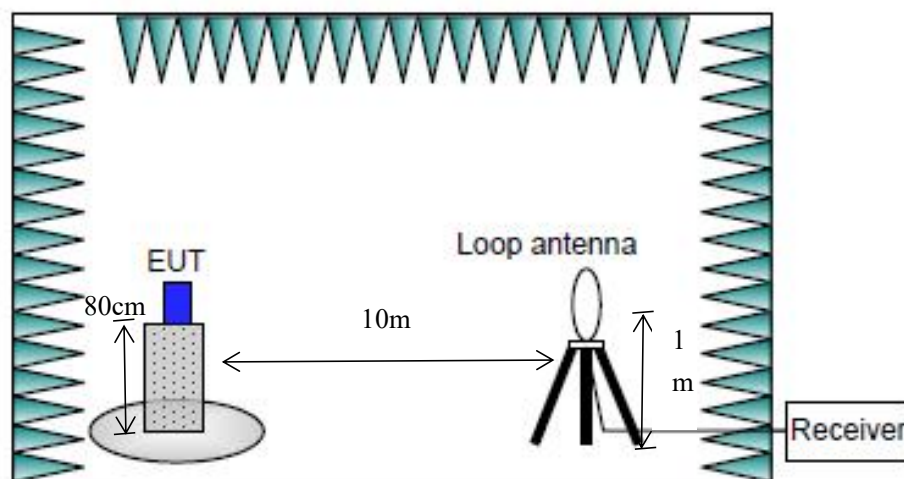
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| Frequency of emission (MHz) | Field strength (uV/m) | Field strength (dBuV/m) |
|-----------------------------|-----------------------|-------------------------|
| 30~88                       | 100                   | 40                      |
|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

### Test Setup

The EUT was placed in an anechoic chamber.. 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).

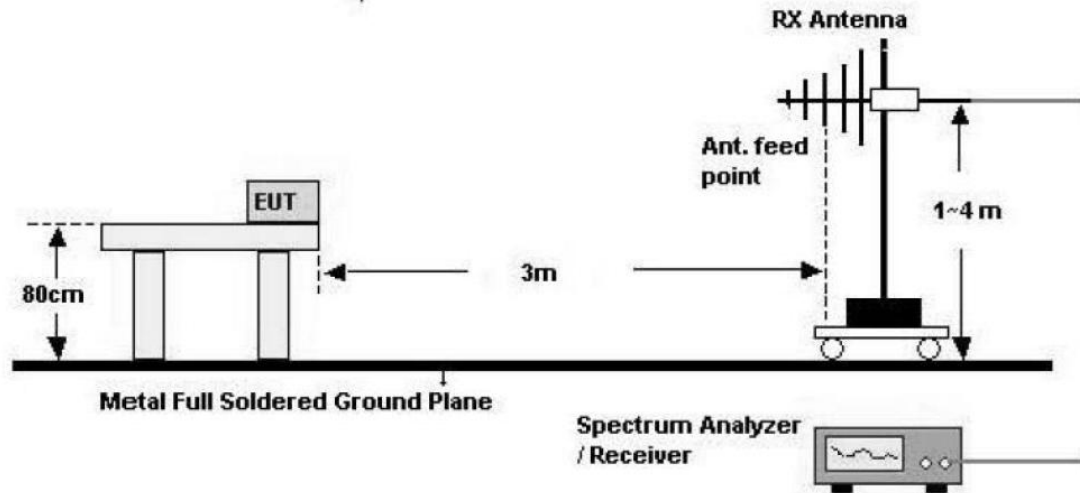
Below 30MHz:



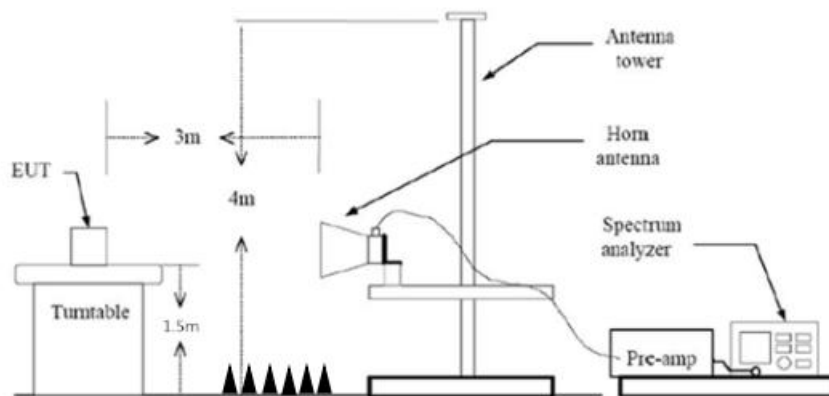
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30MHz-1GHz:



Above 1GHz:



## Test Procedure

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to

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identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

| Frequency of emission (MHz) | RBW/VBW       | Sweep Time (s) |
|-----------------------------|---------------|----------------|
| 30~1000                     | 100KHz/300KHz | 5              |
| 1000~4000                   | 1MHz/1MHz     | 15             |
| 4000~18000                  | 1MHz/1MHz     | 40             |
| 18000~26500                 | 1MHz/1MHz     | 20             |

**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=PM<sub>ea</sub> + AR<sub>pi</sub>

| Channel      | Frequency Range | Test Results | Conclusion |
|--------------|-----------------|--------------|------------|
| All channels | 30MH-1GHz       | Fig.141      | Pass       |
| 11b Ch1      | 1GHz-3GHz       | Fig.142      | Pass       |
|              | 3GHz-18GHz      | Fig.143      | Pass       |
| 11b Ch6      | 1GHz-3GHz       | Fig.144      | Pass       |
|              | 3GHz-18GHz      | Fig.145      | Pass       |
| 11b Ch11     | 1GHz-3GHz       | Fig.147      | Pass       |
|              | 3GHz-18GHz      | Fig.148      | Pass       |
| 11g Ch1      | 1GHz-3GHz       | Fig.149      | Pass       |
|              | 3GHz-18GHz      | Fig.150      | Pass       |
| 11g Ch 6     | 1GHz-3GHz       | Fig.151      | Pass       |
|              | 3GHz-18GHz      | Fig.152      | Pass       |
| 11g Ch 11    | 1GHz-3GHz       | Fig.153      | Pass       |

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|                |             |         |      |
|----------------|-------------|---------|------|
|                | 3GHz-18GHz  | Fig.154 | Pass |
| 11n Ch1(20M)   | 1GHz-3GHz   | Fig.155 | Pass |
|                | 3GHz-18GHz  | Fig.156 | Pass |
| 11n Ch 6(20M)  | 1GHz-3GHz   | Fig.157 | Pass |
|                | 3GHz-18GHz  | Fig.158 | Pass |
| 11n Ch 11(20M) | 1GHz-3GHz   | Fig.159 | Pass |
|                | 3GHz-18GHz  | Fig.160 | Pass |
| 11n Ch3(40M)   | 1GHz-3GHz   | Fig.161 | Pass |
|                | 3GHz-18GHz  | Fig.162 | Pass |
| 11n Ch 6(40M)  | 1GHz-3GHz   | Fig.163 | Pass |
|                | 3GHz-18GHz  | Fig.164 | Pass |
| 11n Ch 9(40M)  | 1GHz-3GHz   | Fig.165 | Pass |
|                | 3GHz-18GHz  | Fig.166 | Pass |
| All channels   | 18GHz-26GHz | Fig.167 | Pass |

Note:

- 1.all the test data shown was peak detected.
  - 2.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**

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Test graphs as below:

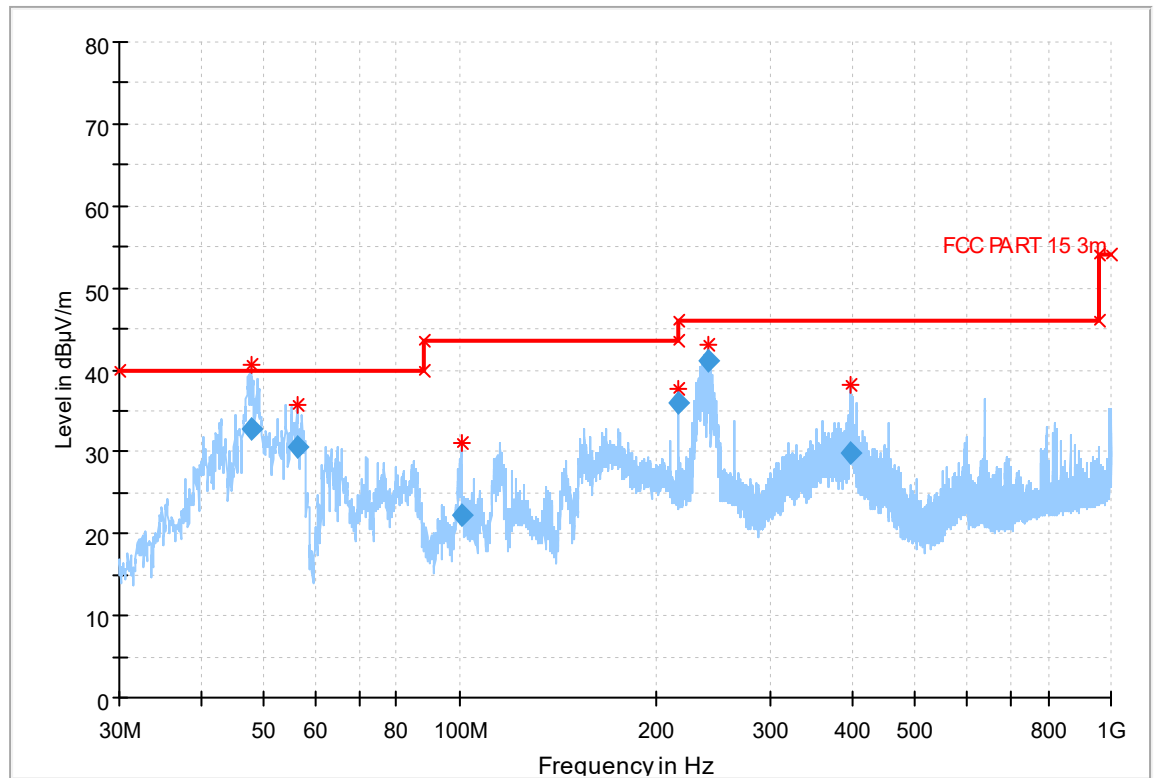


Fig.141

Radiated emission: 11n Ch6, 30MHz-1GHz

### Final Result

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|-----------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 47.831000          | 32.70                 | 40.00             | 7.30           | 1000.0        | 120.000            | 116.0          | V   | 138.0            |
| 56.287000          | 30.70                 | 40.00             | 9.30           | 1000.0        | 120.000            | 106.0          | V   | 172.0            |
| 100.422000         | 22.15                 | 43.50             | 21.35          | 1000.0        | 120.000            | 100.0          | V   | 233.0            |
| 215.997500         | 35.89                 | 43.50             | 7.61           | 1000.0        | 120.000            | 106.0          | V   | 117.0            |
| 239.996500         | 41.13                 | 46.00             | 6.87           | 1000.0        | 120.000            | 136.0          | H   | 251.0            |
| 398.500500         | 29.91                 | 46.00             | 16.09          | 1000.0        | 120.000            | 113.0          | V   | 184.0            |

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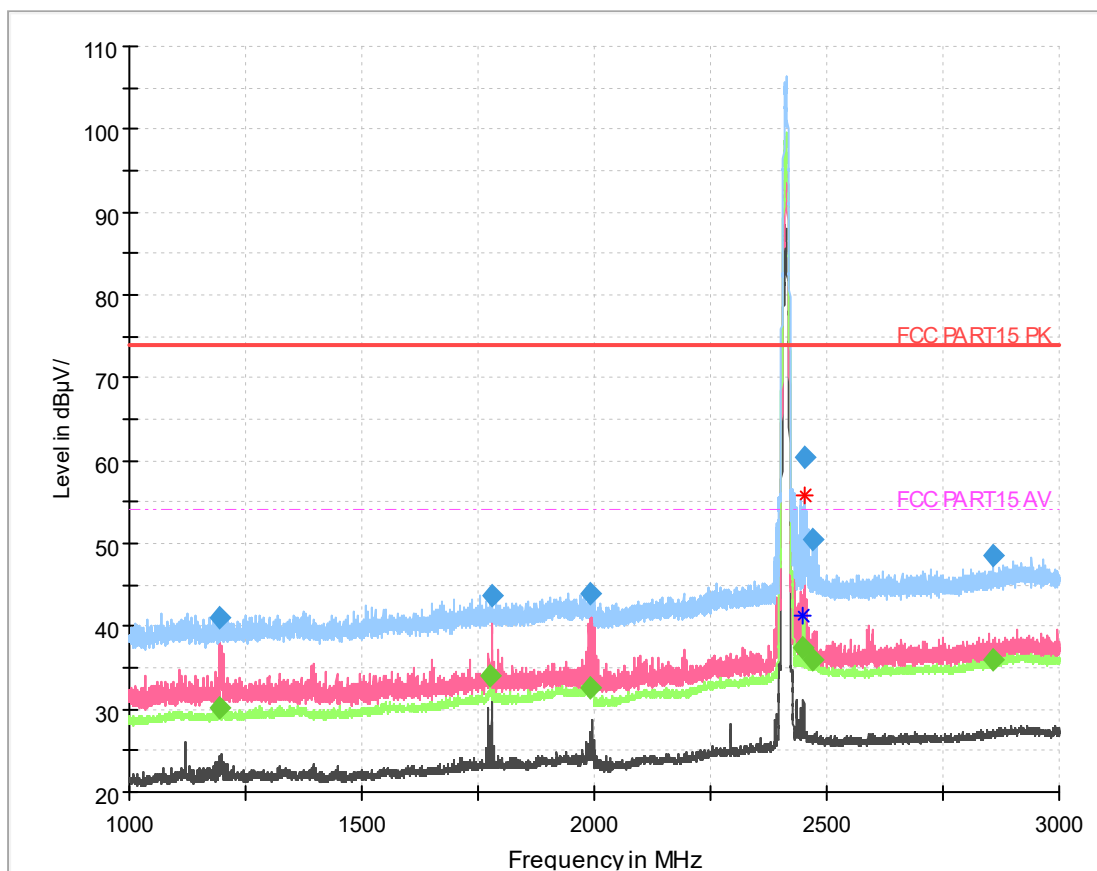


Fig.142 Radiated emission: 11b Ch1, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 2450.400000        | ---                 | 37.44               | 54.00             | 16.56          | 50.0          | 1000.000           | 150.0          | H   | 107.0            |
| 2450.800000        | 60.35               | ---                 | 74.00             | 13.65          | 50.0          | 1000.000           | 150.0          | H   | 101.0            |
| 1194.800000        | 41.05               | ---                 | 74.00             | 32.95          | 50.0          | 1000.000           | 150.0          | H   | 82.0             |
| 1194.800000        | ---                 | 30.09               | 54.00             | 13.91          | 50.0          | 1000.000           | 150.0          | H   | 82.0             |
| 1780.000000        | 43.73               | ---                 | 74.00             | 30.27          | 50.0          | 1000.000           | 150.0          | H   | 182.0            |
| 1776.200000        | ---                 | 34.15               | 54.00             | 19.85          | 50.0          | 1000.000           | 150.0          | H   | 182.0            |
| 1991.800000        | 43.97               | ---                 | 74.00             | 30.03          | 50.0          | 1000.000           | 150.0          | H   | 104.0            |
| 1991.800000        | ---                 | 32.69               | 54.00             | 21.31          | 50.0          | 1000.000           | 150.0          | H   | 104.0            |
| 2857.600000        | 48.46               | ---                 | 74.00             | 25.54          | 50.0          | 1000.000           | 150.0          | H   | 186.0            |
| 2857.800000        | ---                 | 35.98               | 54.00             | 18.02          | 50.0          | 1000.000           | 150.0          | H   | 186.0            |
| 2471.400000        | 50.46               | ---                 | 74.00             | 23.54          | 50.0          | 1000.000           | 150.0          | H   | 203.0            |
| 2471.600000        | ---                 | 36.01               | 54.00             | 17.99          | 50.0          | 1000.000           | 150.0          | H   | 203.0            |

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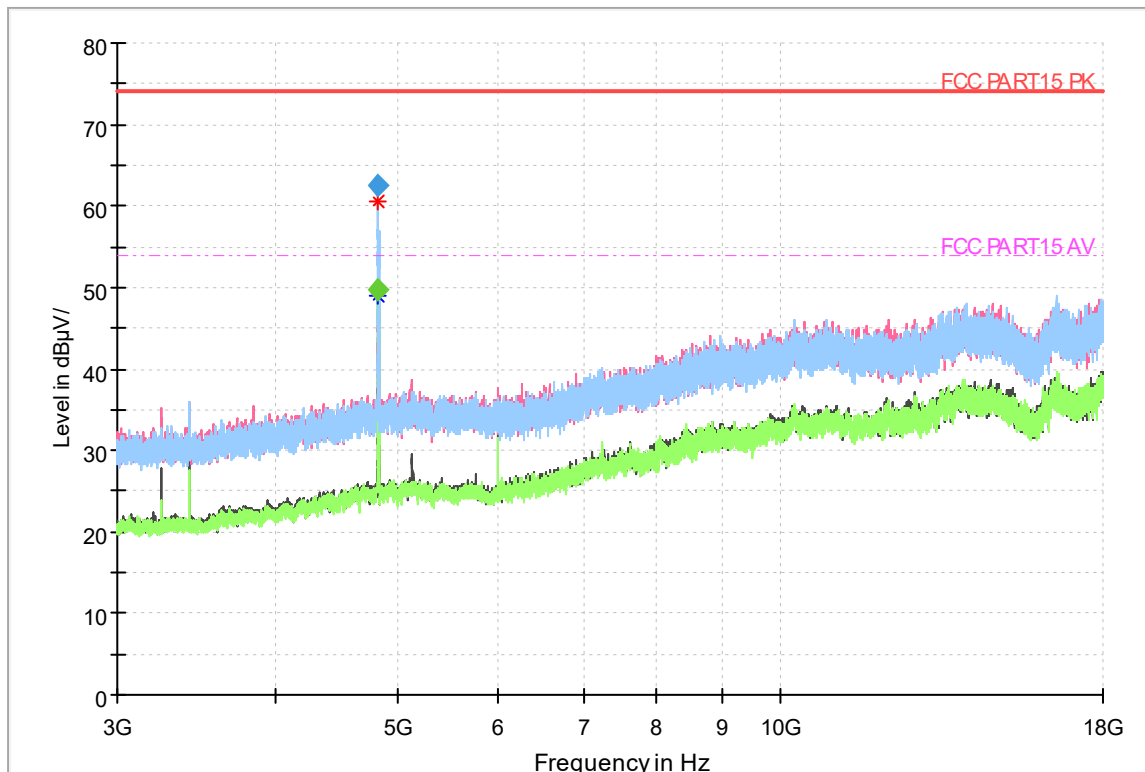


Fig.143 Radiated emission: 11b Ch1, 3GHz-18GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 4824.000000        | 62.51               | ---                 | 74.00             | 11.49          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 4825.200000        | ---                 | 49.67               | 54.00             | 4.33           | 50.0          | 1000.000           | 150.0          | H   | 180.0            |

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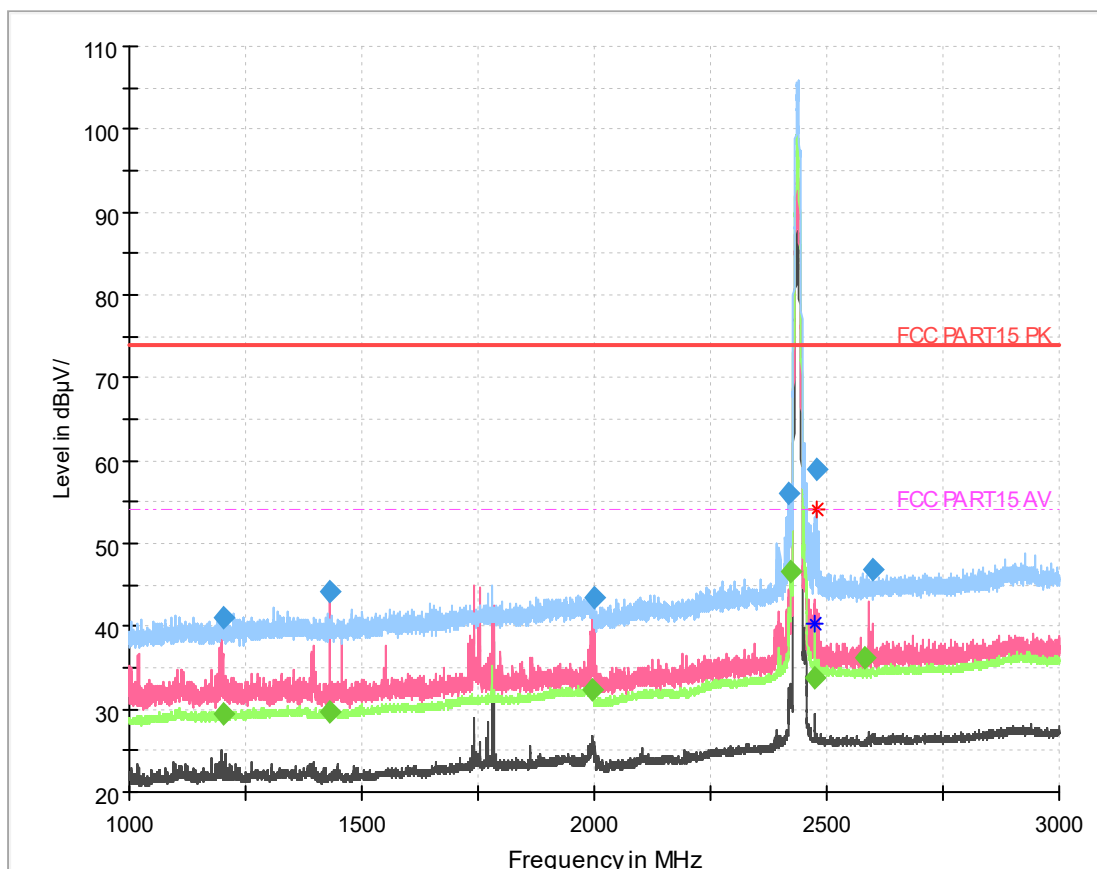


Fig.144 Radiated emission:11b Ch6,1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 2475.400000        | ---                 | 33.78               | 54.00             | 20.22          | 50.0          | 1000.000           | 150.0          | H   | 130.0            |
| 2476.400000        | 59.07               | ---                 | 74.00             | 34.93          | 50.0          | 1000.000           | 150.0          | H   | 98.0             |
| 2419.400000        | 55.98               | ---                 | 74.00             | 28.02          | 50.0          | 1000.000           | 150.0          | H   | 251.0            |
| 2422.800000        | ---                 | 46.66               | 54.00             | 7.34           | 50.0          | 1000.000           | 150.0          | H   | 213.0            |
| 1203.200000        | 41.13               | ---                 | 74.00             | 32.87          | 50.0          | 1000.000           | 150.0          | H   | 75.0             |
| 1201.800000        | ---                 | 29.34               | 54.00             | 24.66          | 50.0          | 1000.000           | 150.0          | H   | 81.0             |
| 1430.600000        | 44.26               | ---                 | 74.00             | 29.74          | 50.0          | 1000.000           | 150.0          | H   | 143.0            |
| 1429.400000        | ---                 | 29.59               | 54.00             | 24.41          | 50.0          | 1000.000           | 150.0          | H   | 196.0            |
| 1999.600000        | 43.56               | ---                 | 74.00             | 30.44          | 50.0          | 1000.000           | 150.0          | H   | 211.0            |
| 1995.000000        | ---                 | 32.32               | 54.00             | 21.68          | 50.0          | 1000.000           | 150.0          | H   | 237.0            |
| 2600.000000        | 46.81               | ---                 | 74.00             | 27.19          | 50.0          | 1000.000           | 150.0          | H   | 24.0             |
| 2582.800000        | ---                 | 36.24               | 54.00             | 17.76          | 50.0          | 1000.000           | 150.0          | H   | 69.0             |

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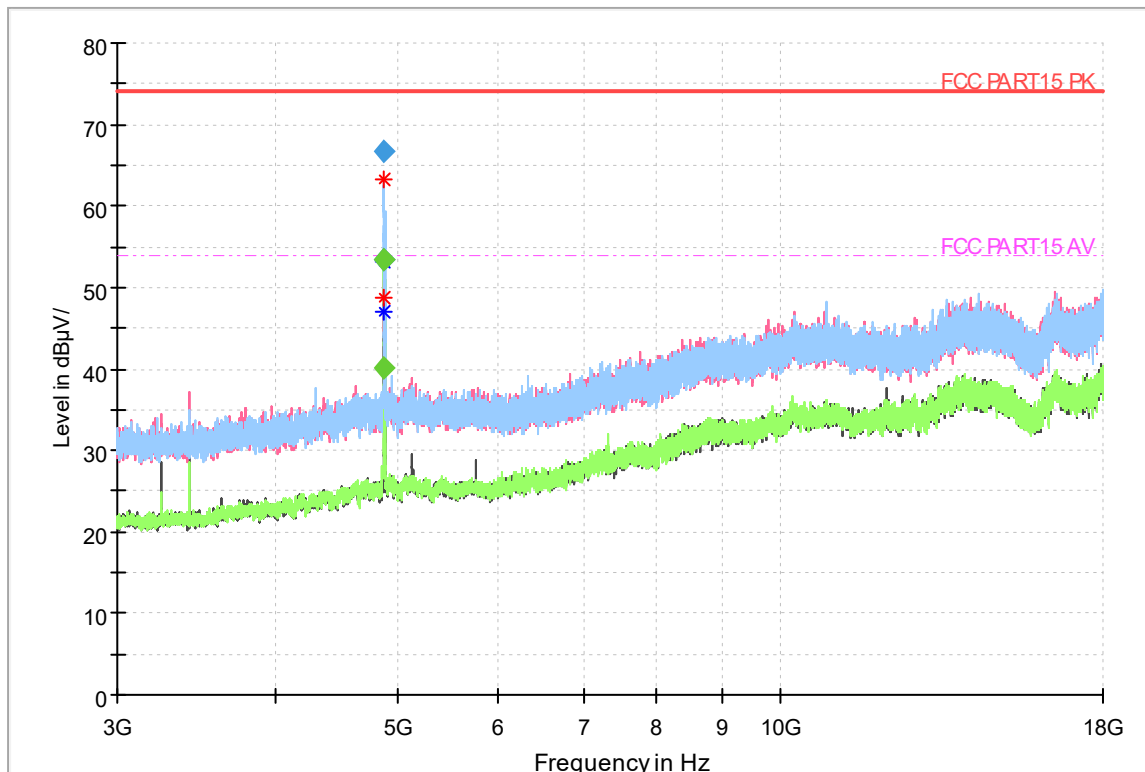


Fig.145 Radiated emission: 11b Ch6, 3GHz-18GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 4873.200000        | 53.50               | ---                 | 74.00             | 20.50          | 50.0          | 1000.000           | 150.0          | V   | 90.0             |
| 4873.800000        | ---                 | 40.12               | 54.00             | 13.88          | 50.0          | 1000.000           | 150.0          | V   | 270.0            |
| 4874.100000        | 66.78               | ---                 | 74.00             | 7.22           | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 4875.300000        | ---                 | 53.00               | 54.00             | 1.00           | 50.0          | 1000.000           | 150.0          | H   | 90.0             |

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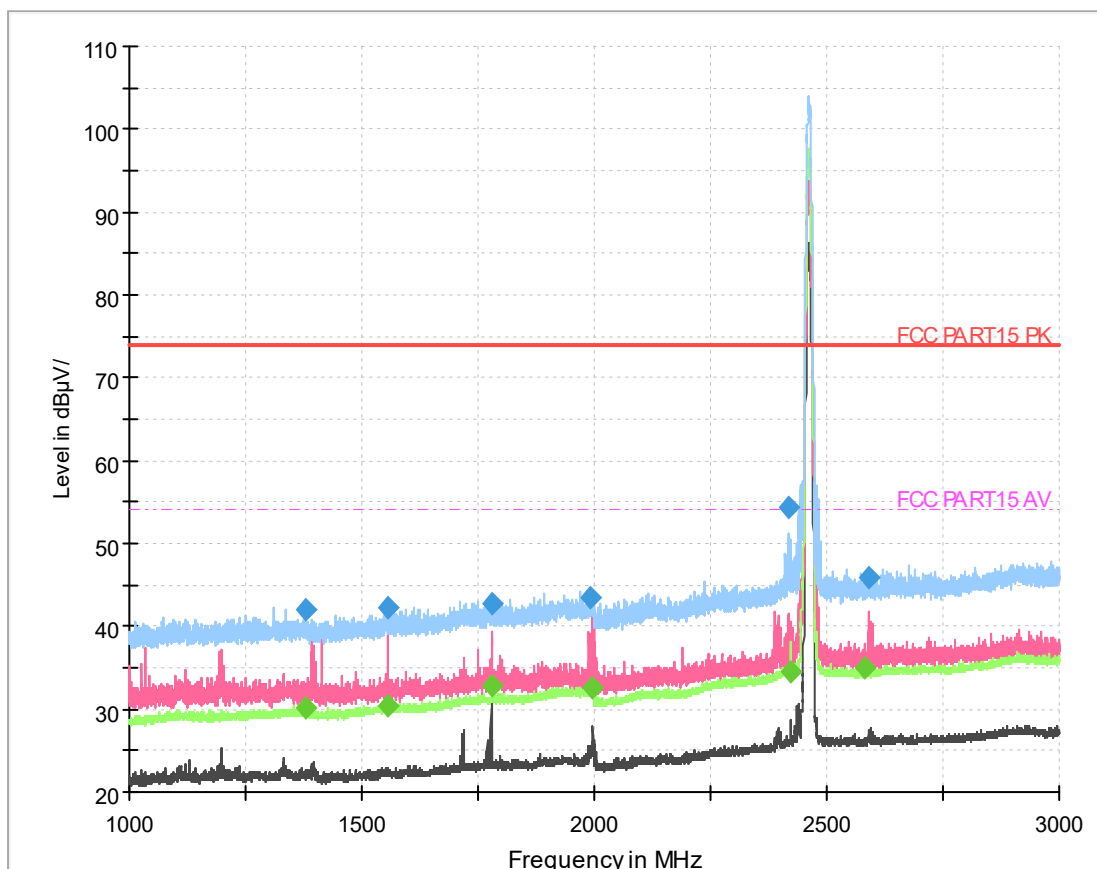


Fig.146 Radiated emission: 11b Ch11, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 2418.000000        | 54.42               | ---                 | 74.00             | 19.58          | 50.0          | 1000.000           | 150.0          | H   | 242.0            |
| 2423.800000        | ---                 | 34.41               | 54.00             | 19.59          | 50.0          | 1000.000           | 150.0          | H   | 96.0             |
| 1556.800000        | 42.22               | ---                 | 74.00             | 31.78          | 50.0          | 1000.000           | 150.0          | H   | 152.0            |
| 1555.000000        | ---                 | 30.43               | 54.00             | 23.57          | 50.0          | 1000.000           | 150.0          | H   | 36.0             |
| 1782.200000        | 42.82               | ---                 | 74.00             | 31.18          | 50.0          | 1000.000           | 150.0          | H   | 108.0            |
| 1778.400000        | ---                 | 32.89               | 54.00             | 21.11          | 50.0          | 1000.000           | 150.0          | H   | 106.0            |
| 1990.800000        | 43.47               | ---                 | 74.00             | 32.50          | 50.0          | 1000.000           | 150.0          | H   | 123.0            |
| 1997.800000        | ---                 | 32.50               | 54.00             | 21.50          | 50.0          | 1000.000           | 150.0          | H   | 209.0            |
| 1380.800000        | 42.02               | ---                 | 74.00             | 31.98          | 50.0          | 1000.000           | 150.0          | H   | 85.0             |
| 1379.800000        | ---                 | 30.11               | 54.00             | 23.89          | 50.0          | 1000.000           | 150.0          | H   | 21.0             |
| 2589.400000        | 45.94               | ---                 | 74.00             | 28.06          | 50.0          | 1000.000           | 150.0          | H   | 120.0            |
| 2581.400000        | ---                 | 35.09               | 54.00             | 18.91          | 50.0          | 1000.000           | 150.0          | H   | 243.0            |

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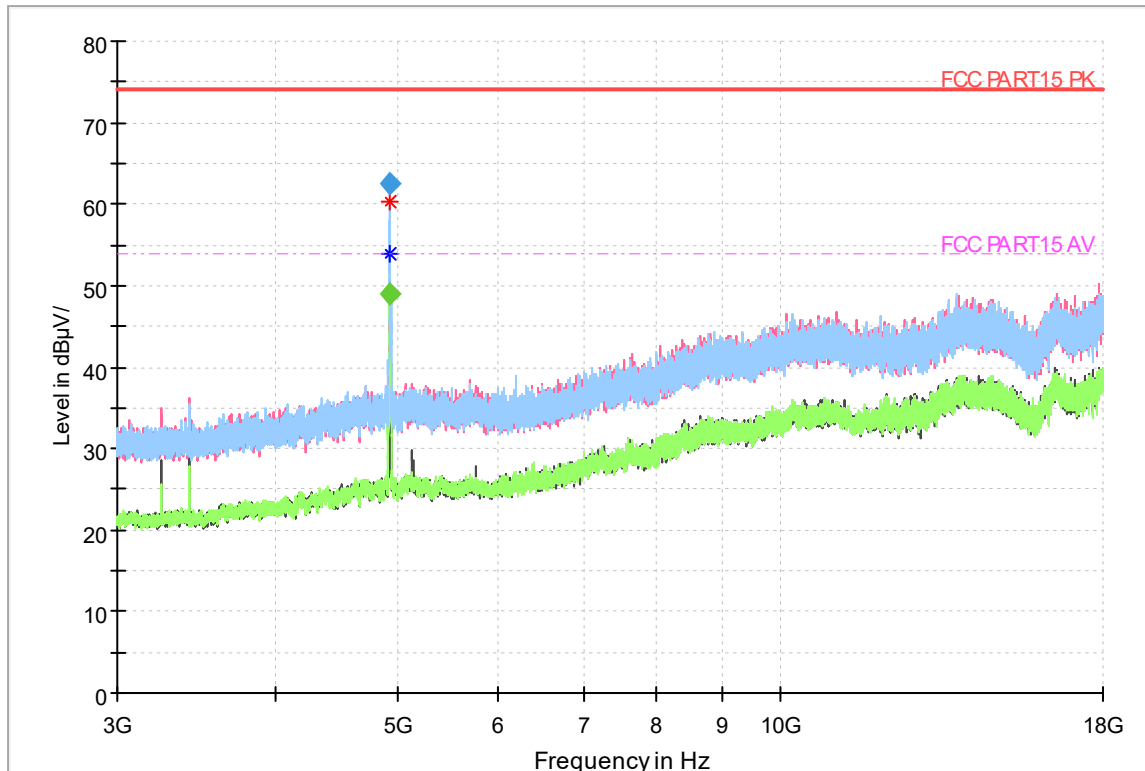


Fig.147 Radiated emission: 11b Ch11, 3GHz-18GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 4924.200000        | 62.58               | ---                 | 74.00             | 11.42          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 4924.500000        | ---                 | 48.93               | 54.00             | 5.07           | 50.0          | 1000.000           | 150.0          | H   | 0.0              |

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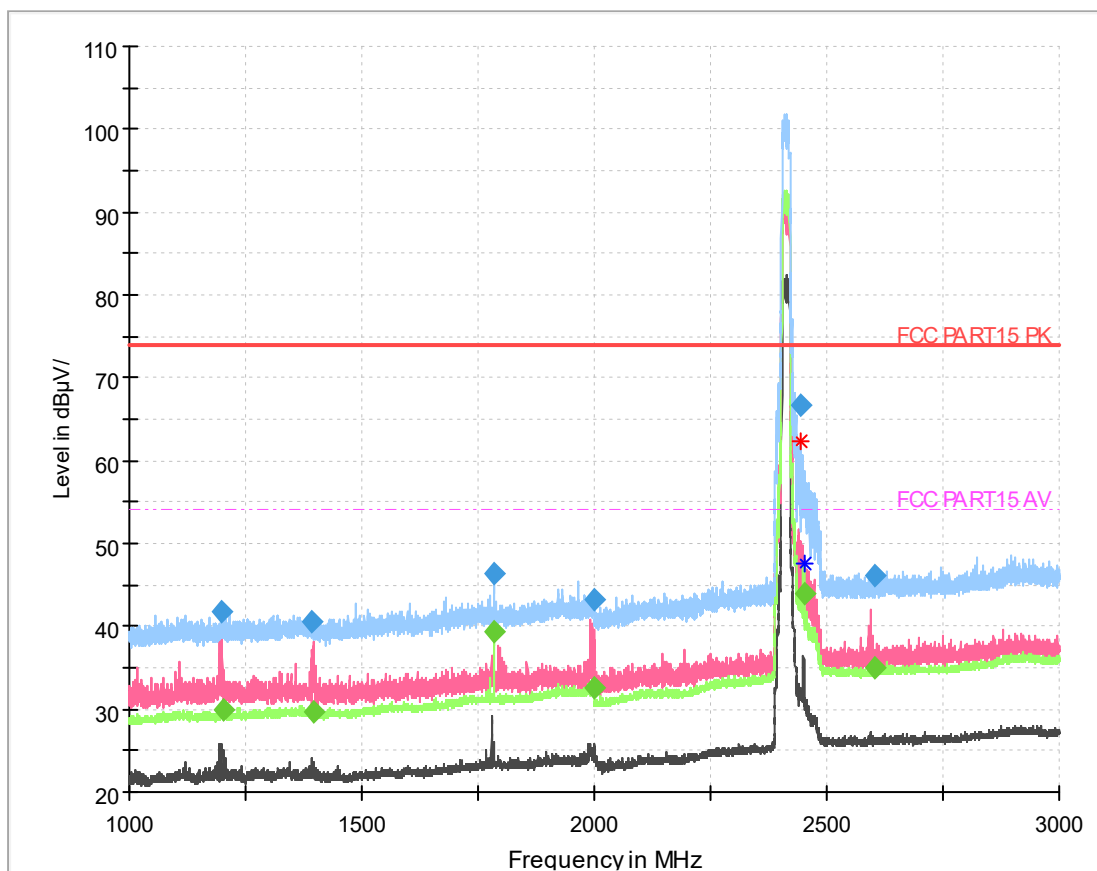


Fig.148 Radiated emission: 11g Ch1, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 2443.000000        | 66.80               | ---                 | 74.00             | 7.20           | 50.0          | 1000.000           | 150.0          | H   | 99.0             |
| 2450.600000        | ---                 | 44.07               | 54.00             | 9.93           | 50.0          | 1000.000           | 150.0          | H   | 99.0             |
| 1197.400000        | 41.77               | ---                 | 74.00             | 32.23          | 50.0          | 1000.000           | 150.0          | H   | 234.0            |
| 1203.200000        | ---                 | 30.02               | 54.00             | 23.98          | 50.0          | 1000.000           | 150.0          | H   | 211.0            |
| 1394.200000        | 40.65               | ---                 | 74.00             | 33.35          | 50.0          | 1000.000           | 150.0          | H   | 24.0             |
| 1398.400000        | ---                 | 29.76               | 54.00             | 24.24          | 50.0          | 1000.000           | 150.0          | H   | 73.0             |
| 1783.600000        | 46.48               | ---                 | 74.00             | 27.52          | 50.0          | 1000.000           | 150.0          | H   | 146.0            |
| 1783.400000        | ---                 | 39.34               | 54.00             | 14.66          | 50.0          | 1000.000           | 150.0          | H   | 146.0            |
| 1999.800000        | 43.23               | ---                 | 74.00             | 30.77          | 50.0          | 1000.000           | 150.0          | H   | 145.0            |
| 1999.000000        | ---                 | 32.48               | 54.00             | 11.52          | 50.0          | 1000.000           | 150.0          | H   | 183.0            |
| 2602.600000        | 46.11               | ---                 | 74.00             | 27.89          | 50.0          | 1000.000           | 150.0          | H   | 46.0             |
| 2601.600000        | ---                 | 34.98               | 54.00             | 18.02          | 50.0          | 1000.000           | 150.0          | H   | 77.0             |

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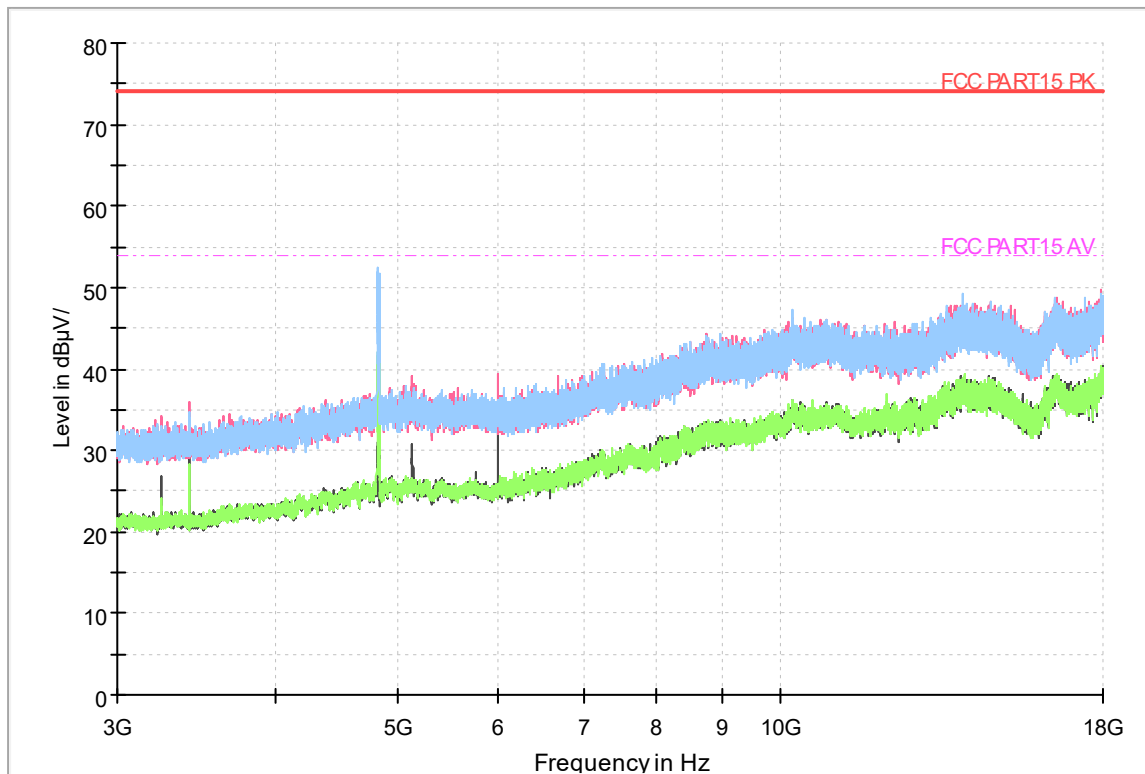


Fig.149 Radiated emission: 11g Ch1, 3GHz-18GHz

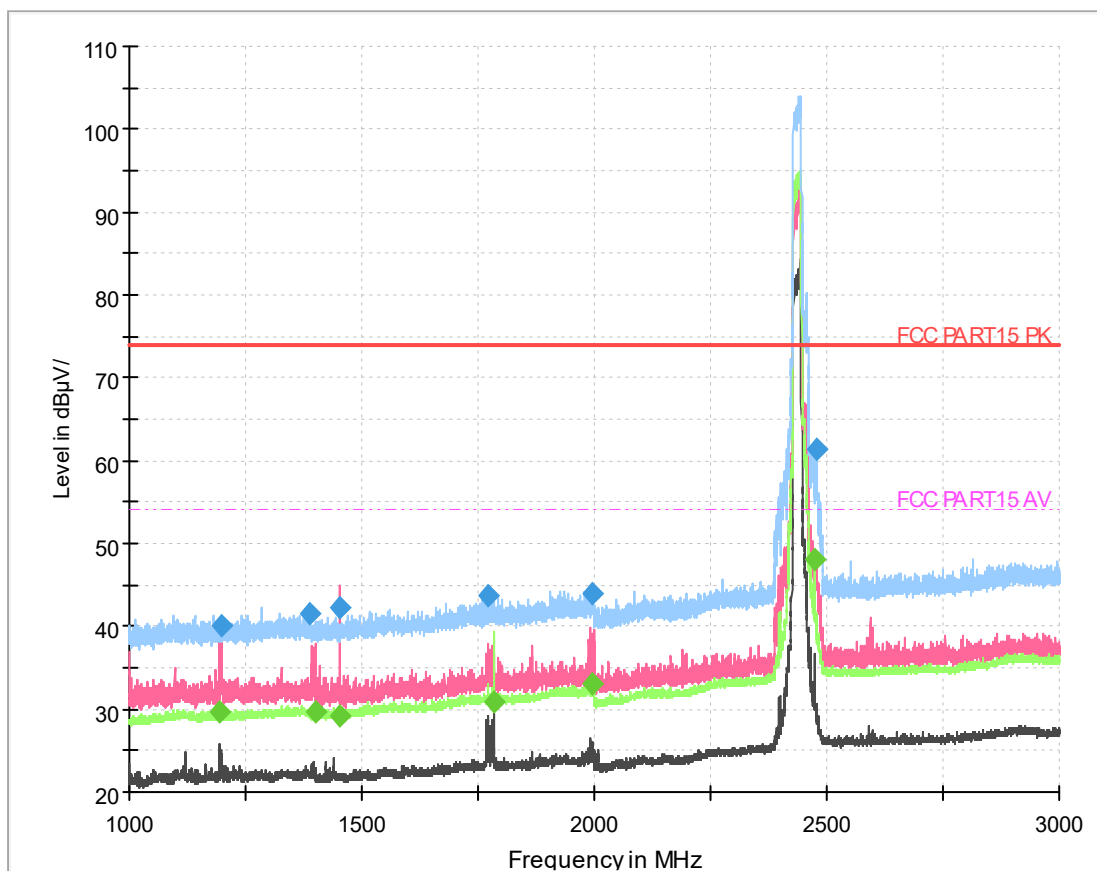


Fig.150 Radiated emission: 11g Ch6, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 1450.800000        | 42.28               | ---                 | 74.00             | 31.72          | 50.0          | 1000.000           | 150.0          | V   | 75.0             |
| 1784.000000        | ---                 | 30.98               | 54.00             | 23.02          | 50.0          | 1000.000           | 150.0          | H   | 270.0            |
| 1196.400000        | 40.05               | ---                 | 74.00             | 33.95          | 50.0          | 1000.000           | 150.0          | H   | 43.0             |
| 1195.000000        | ---                 | 29.61               | 54.00             | 24.39          | 50.0          | 1000.000           | 150.0          | H   | 83.0             |
| 1450.800000        | ---                 | 29.23               | 54.00             | 24.77          | 50.0          | 1000.000           | 150.0          | H   | 88.0             |
| 1387.800000        | 41.60               | ---                 | 74.00             | 32.40          | 50.0          | 1000.000           | 150.0          | H   | 179.0            |
| 1401.600000        | ---                 | 29.79               | 54.00             | 24.21          | 50.0          | 1000.000           | 150.0          | H   | 251.0            |
| 1772.600000        | 43.66               | ---                 | 74.00             | 30.34          | 50.0          | 1000.000           | 150.0          | H   | 189.0            |
| 1995.000000        | 44.03               | ---                 | 74.00             | 29.97          | 50.0          | 1000.000           | 150.0          | H   | 78.0             |
| 1995.600000        | ---                 | 32.97               | 54.00             | 21.03          | 50.0          | 1000.000           | 150.0          | H   | 78.0             |
| 2476.400000        | 61.34               | ---                 | 74.00             | 12.66          | 50.0          | 1000.000           | 150.0          | H   | 125.0            |
| 2475.400000        | ---                 | 48.00               | 54.00             | 6.00           | 50.0          | 1000.000           | 150.0          | H   | 125.0            |

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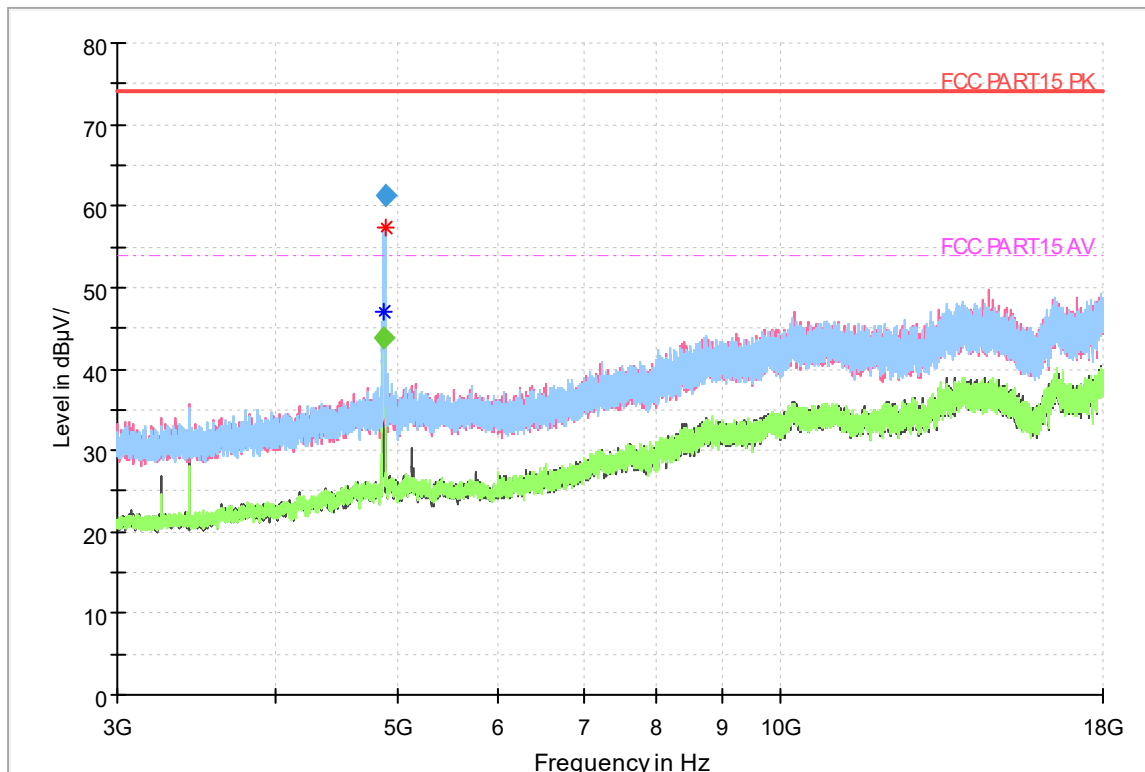


Fig.151 Radiated emission: 11g Ch6, 3GHz-18GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 4876.200000        | ---                 | 43.79               | 54.00             | 10.21          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 4879.800000        | 61.22               | ---                 | 74.00             | 12.78          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |

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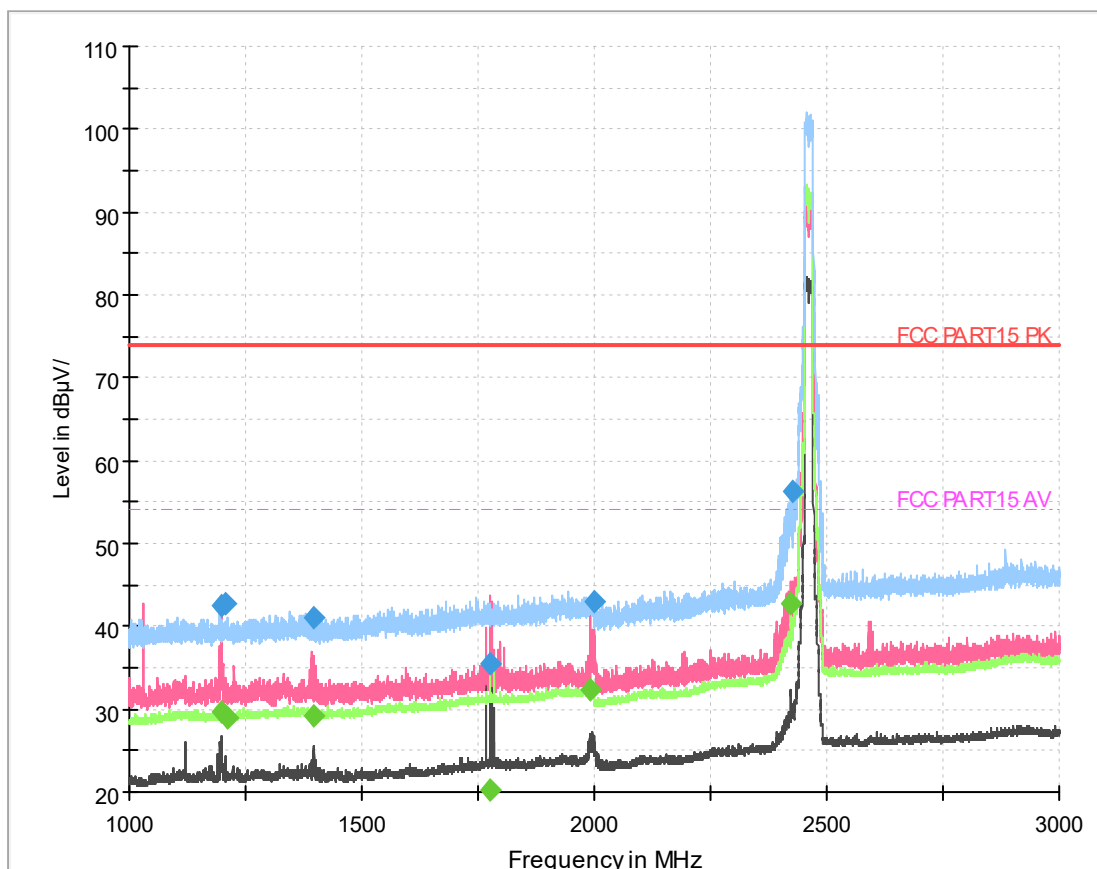


Fig.152 Radiated emission: 11g Ch11, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 1775.200000        | 35.50               | ---                 | 74.00             | 38.50          | 50.0          | 1000.000           | 150.0          | V   | 170.0            |
| 1775.600000        | ---                 | 20.20               | 54.00             | 33.80          | 50.0          | 1000.000           | 150.0          | V   | 170.0            |
| 1209.000000        | 42.81               | ---                 | 74.00             | 31.19          | 50.0          | 1000.000           | 150.0          | V   | 118.0            |
| 1209.400000        | ---                 | 28.94               | 54.00             | 25.06          | 50.0          | 1000.000           | 150.0          | V   | 118.0            |
| 1198.000000        | 42.58               | ---                 | 74.00             | 31.42          | 50.0          | 1000.000           | 150.0          | V   | 169.0            |
| 1197.200000        | ---                 | 29.74               | 54.00             | 24.26          | 50.0          | 1000.000           | 150.0          | V   | 169.0            |
| 1395.000000        | 41.05               | ---                 | 74.00             | 32.95          | 50.0          | 1000.000           | 150.0          | V   | 210.0            |
| 1397.600000        | ---                 | 29.31               | 54.00             | 24.69          | 50.0          | 1000.000           | 150.0          | V   | 210.0            |
| 1999.200000        | 43.03               | ---                 | 74.00             | 30.97          | 50.0          | 1000.000           | 150.0          | V   | 177.0            |
| 1991.000000        | ---                 | 32.30               | 54.00             | 21.70          | 50.0          | 1000.000           | 150.0          | V   | 177.0            |
| 2426.600000        | 56.22               | ---                 | 74.00             | 17.78          | 50.0          | 1000.000           | 150.0          | V   | 96.0             |
| 2423.600000        | ---                 | 42.65               | 54.00             | 11.35          | 50.0          | 1000.000           | 150.0          | V   | 96.0             |

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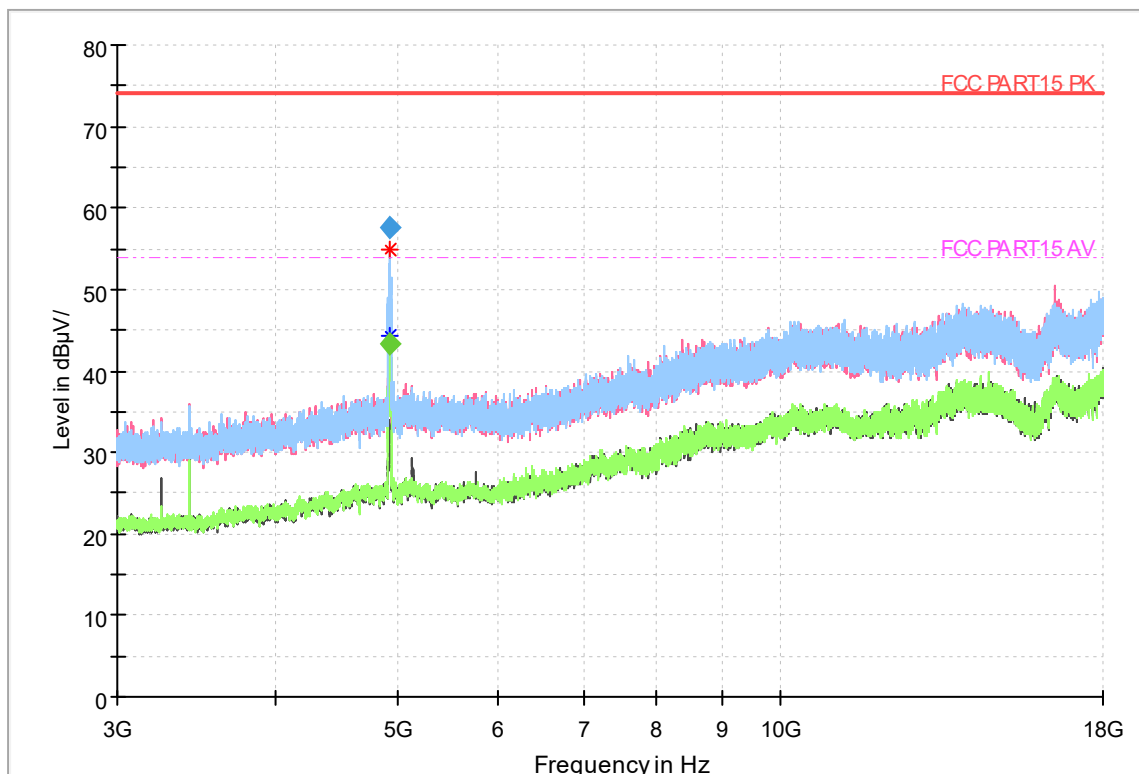


Fig.153 Radiated emission: 11g Ch11, 3GHz-18GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 4925.100000        | ---                 | 43.33               | 54.00             | 10.67          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 4925.100000        | 57.63               | ---                 | 74.00             | 16.37          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |

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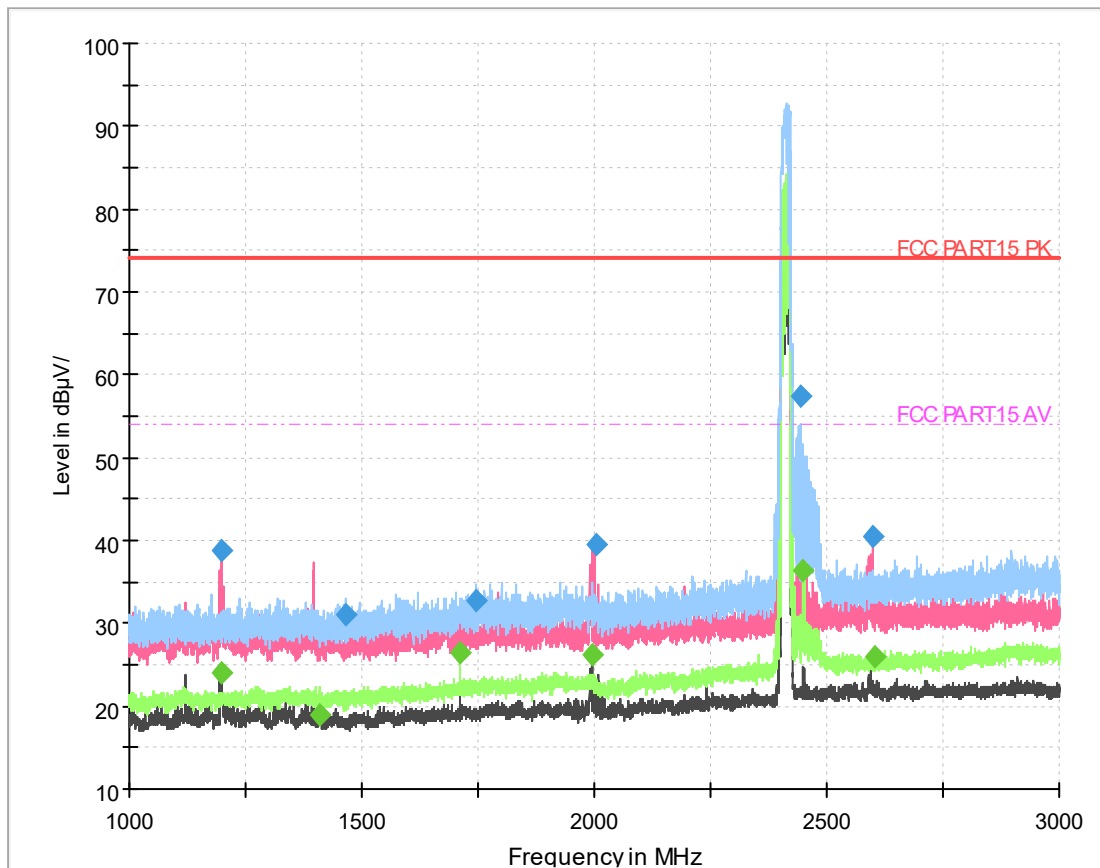


Fig.154 Radiated emission: 11n(20M) Ch1, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 1409.000000        | ---                 | 19.07               | 54.00             | 34.93          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1464.000000        | 31.14               | ---                 | 74.00             | 42.86          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1710.800000        | ---                 | 26.45               | 54.00             | 27.55          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 1746.600000        | 32.83               | ---                 | 74.00             | 41.17          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2445.600000        | 57.47               | ---                 | 74.00             | 16.53          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2450.400000        | ---                 | 36.40               | 54.00             | 17.60          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1196.400000        | 38.79               | ---                 | 74.00             | 35.21          | 50.0          | 1000.000           | 150.0          | H   | 150.0            |
| 1196.400000        | ---                 | 24.15               | 54.00             | 19.85          | 50.0          | 1000.000           | 150.0          | H   | 150.0            |
| 2002.200000        | 39.49               | ---                 | 74.00             | 34.51          | 50.0          | 1000.000           | 150.0          | H   | 215.0            |
| 1997.200000        | ---                 | 26.18               | 54.00             | 17.82          | 50.0          | 1000.000           | 150.0          | H   | 215.0            |
| 2600.600000        | 40.37               | ---                 | 74.00             | 33.63          | 50.0          | 1000.000           | 150.0          | H   | 135.0            |
| 2603.000000        | ---                 | 25.99               | 54.00             | 18.01          | 50.0          | 1000.000           | 150.0          | H   | 135.0            |

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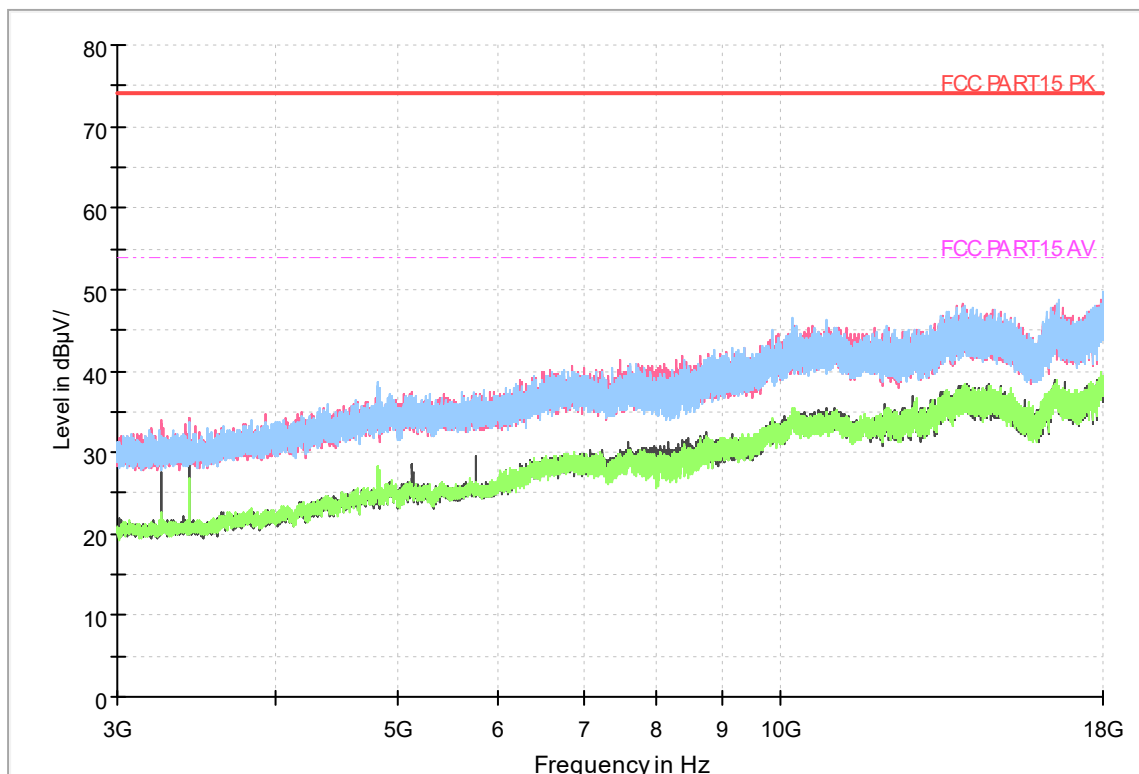


Fig.155 Radiated emission: 11n(20M) Ch1, 3GHz-18GHz

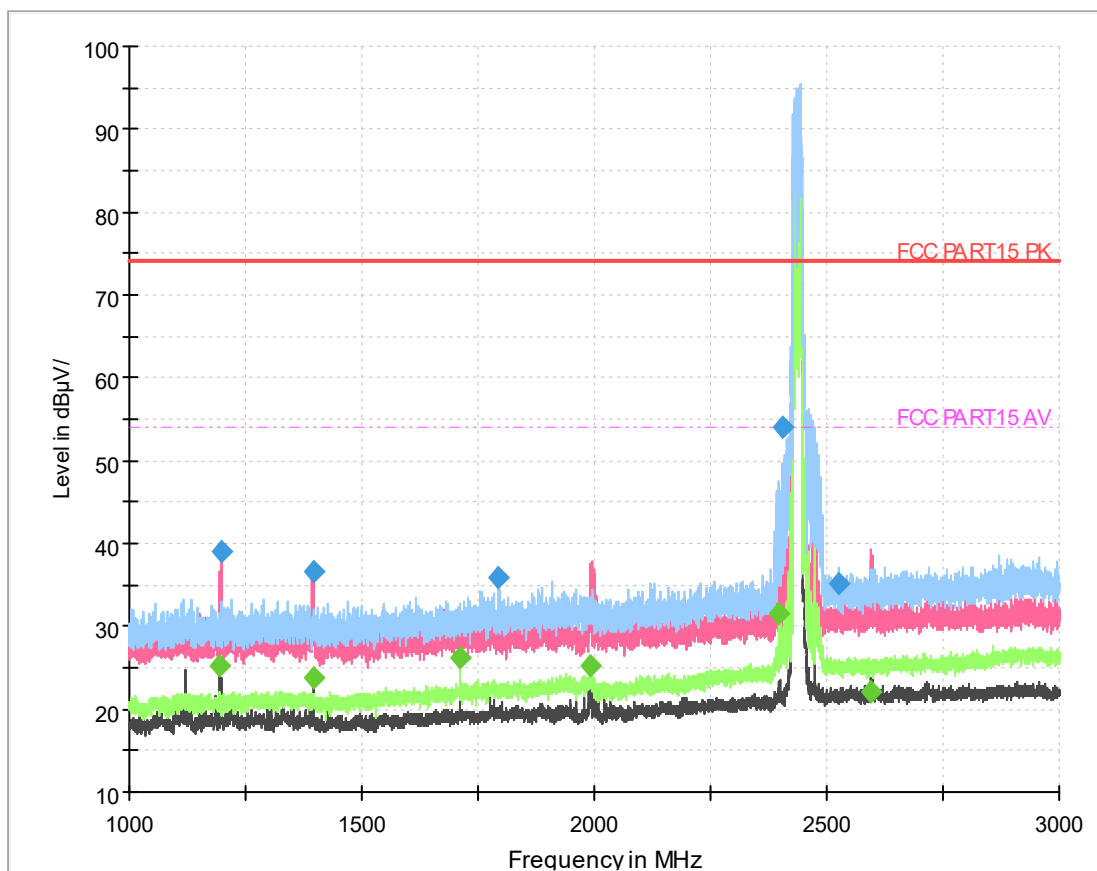


Fig.156 Radiated emission: 11n(20M) Ch6, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 1710.800000        | ---                 | 26.33               | 54.00             | 27.67          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 1794.200000        | 35.85               | ---                 | 74.00             | 38.15          | 50.0          | 1000.000           | 150.0          | H   | 0.0              |
| 2398.400000        | ---                 | 31.57               | 54.00             | 22.43          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2405.000000        | 54.09               | ---                 | 74.00             | 19.91          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2524.800000        | 35.21               | ---                 | 74.00             | 38.79          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2595.600000        | ---                 | 22.14               | 54.00             | 31.86          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1199.800000        | 38.94               | ---                 | 74.00             | 35.06          | 50.0          | 1000.000           | 150.0          | H   | 45.0             |
| 1195.200000        | ---                 | 25.14               | 54.00             | 18.86          | 50.0          | 1000.000           | 150.0          | H   | 45.0             |
| 1396.000000        | 36.59               | ---                 | 74.00             | 37.41          | 50.0          | 1000.000           | 150.0          | H   | 120.0            |
| 1398.200000        | ---                 | 23.67               | 54.00             | 20.33          | 50.0          | 1000.000           | 150.0          | H   | 120.0            |
| 1996.400000        | 37.77               | ---                 | 74.00             | 36.23          | 50.0          | 1000.000           | 150.0          | H   | 210.0            |
| 1992.000000        | ---                 | 25.21               | 54.00             | 18.79          | 50.0          | 1000.000           | 150.0          | H   | 210.0            |

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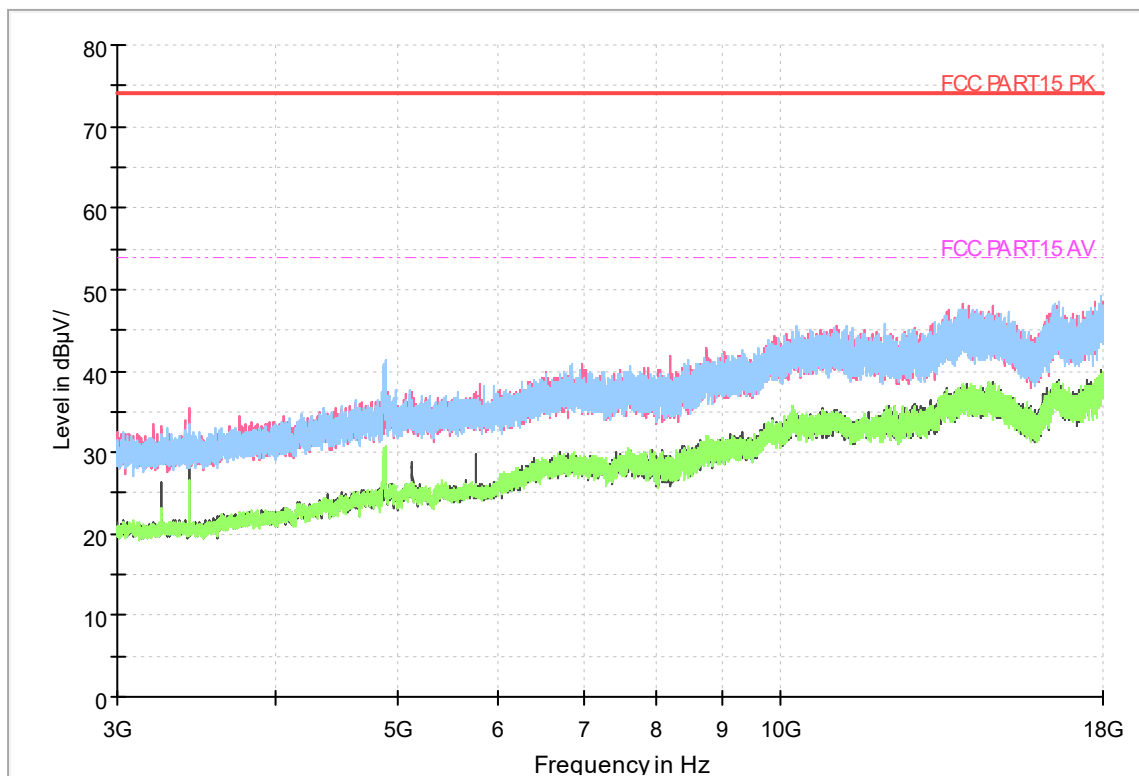


Fig.157 Radiated emission: 11n(20M) Ch6, 3GHz-18GHz

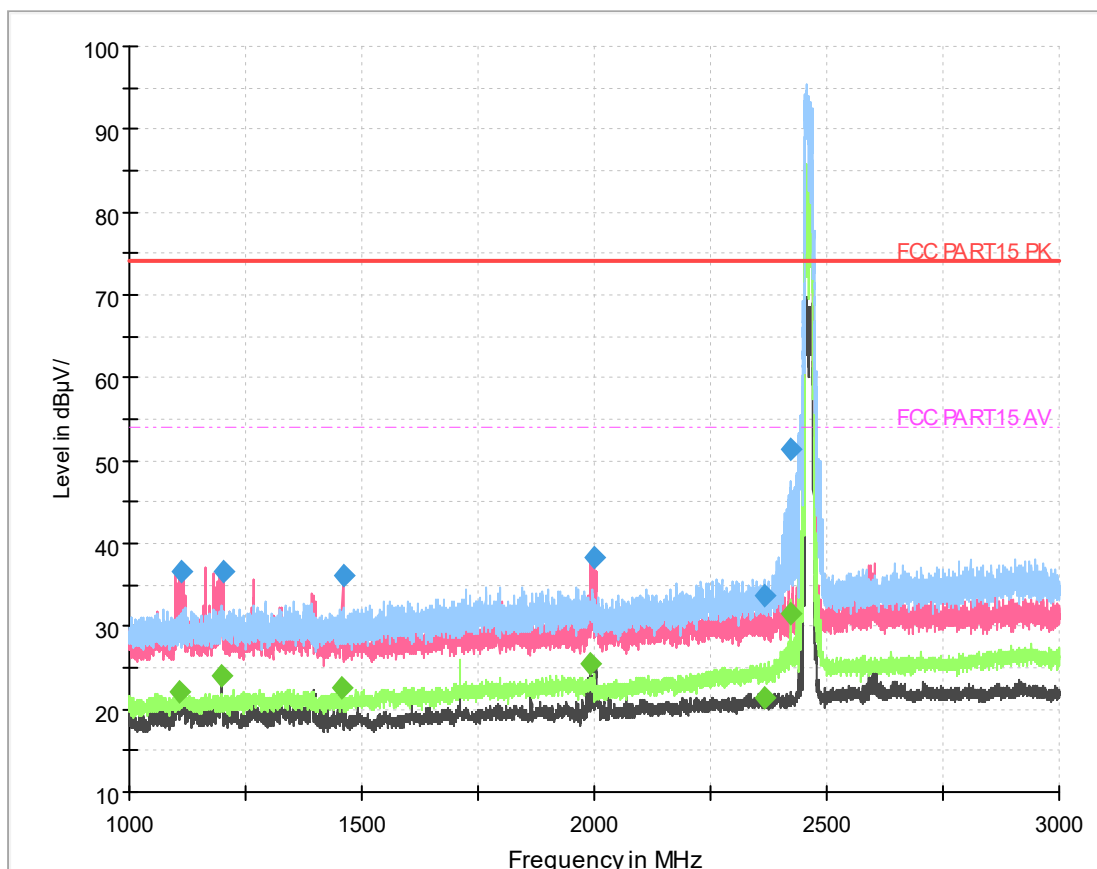


Fig.158 Radiated emission: 11n(20M) Ch11, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 2365.200000        | ---                 | 21.40               | 54.00             | 32.60          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2367.600000        | 33.64               | ---                 | 74.00             | 40.36          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2422.600000        | 51.39               | ---                 | 74.00             | 22.61          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2423.600000        | ---                 | 31.48               | 54.00             | 22.52          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1111.600000        | 36.59               | ---                 | 74.00             | 37.41          | 50.0          | 1000.000           | 150.0          | H   | 112.0            |
| 1201.200000        | 36.72               | ---                 | 74.00             | 37.28          | 50.0          | 1000.000           | 150.0          | H   | 145.0            |
| 1196.400000        | ---                 | 23.92               | 54.00             | 30.08          | 50.0          | 1000.000           | 150.0          | H   | 145.0            |
| 1107.200000        | ---                 | 22.13               | 54.00             | 31.87          | 50.0          | 1000.000           | 150.0          | H   | 112.0            |
| 1459.200000        | 36.18               | ---                 | 74.00             | 37.82          | 50.0          | 1000.000           | 150.0          | H   | 210.0            |
| 1458.800000        | ---                 | 22.59               | 54.00             | 21.41          | 50.0          | 1000.000           | 150.0          | H   | 210.0            |
| 2000.200000        | 38.19               | ---                 | 74.00             | 35.81          | 50.0          | 1000.000           | 150.0          | H   | 176.0            |
| 1992.800000        | ---                 | 25.37               | 54.00             | 19.63          | 50.0          | 1000.000           | 150.0          | H   | 176.0            |

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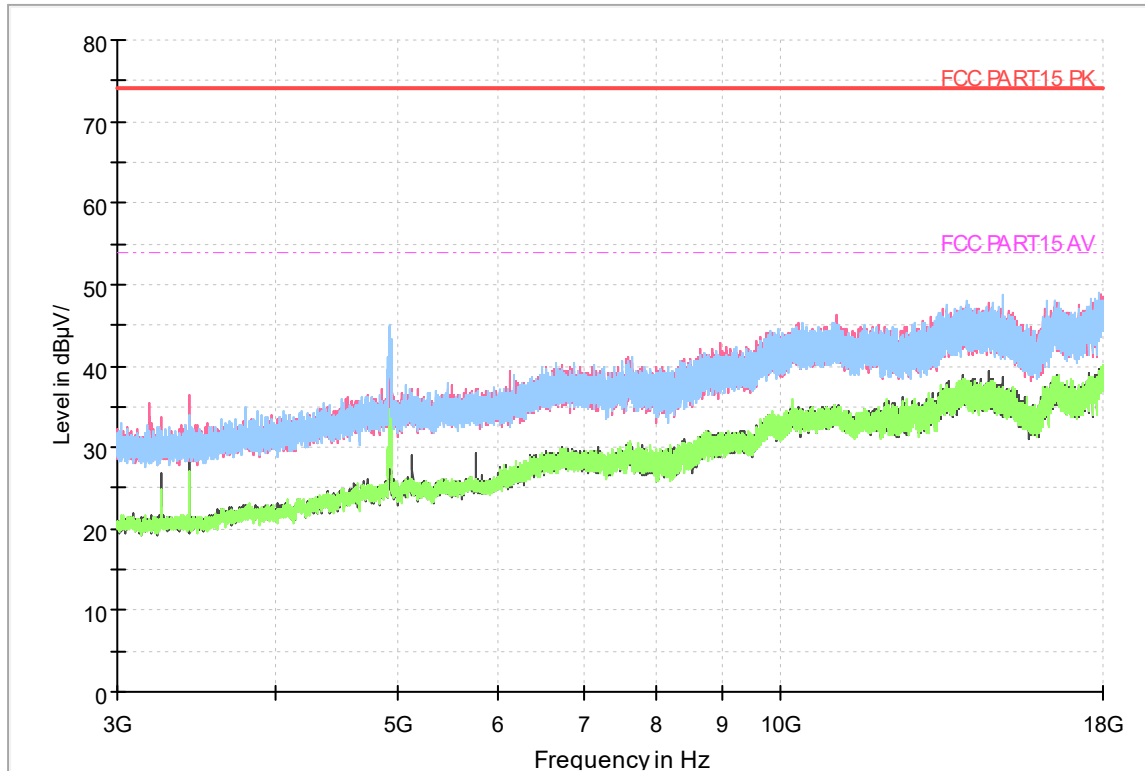


Fig.159 Radiated emission: 11n(20M) Ch11, 3GHz-18GHz

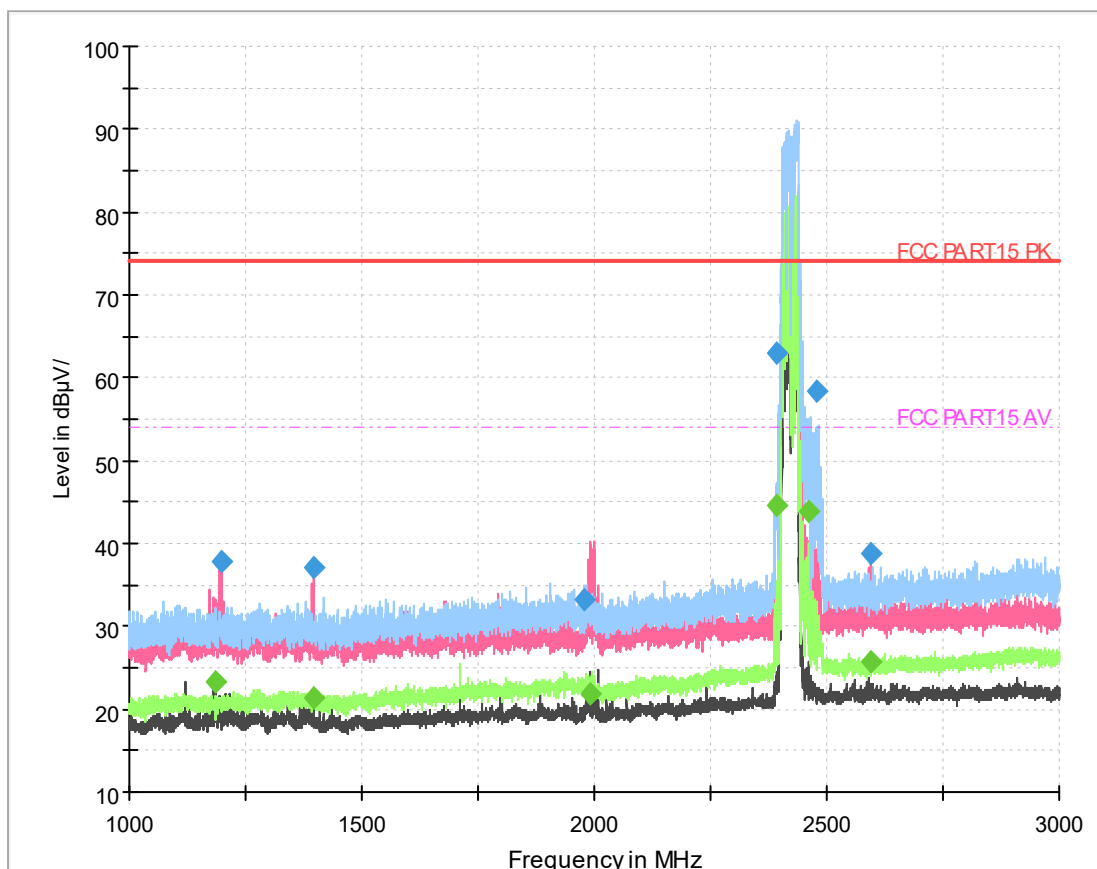


Fig.160 Radiated emission: 11n(40M) Ch3, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 1978.600000        | 33.12               | ---                 | 74.00             | 40.88          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1992.800000        | ---                 | 21.80               | 54.00             | 32.20          | 50.0          | 1000.000           | 150.0          | V   | 0.0              |
| 2391.000000        | 62.98               | ---                 | 74.00             | 11.02          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2393.600000        | ---                 | 44.48               | 54.00             | 9.52           | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2460.200000        | ---                 | 43.77               | 54.00             | 10.23          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2478.400000        | 58.27               | ---                 | 74.00             | 15.73          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1200.000000        | 37.85               | ---                 | 74.00             | 36.15          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 1183.400000        | ---                 | 23.35               | 54.00             | 20.65          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 1394.800000        | 37.21               | ---                 | 74.00             | 36.79          | 50.0          | 1000.000           | 150.0          | H   | 115.0            |
| 1398.400000        | ---                 | 21.40               | 54.00             | 22.60          | 50.0          | 1000.000           | 150.0          | H   | 115.0            |
| 2594.800000        | 38.91               | ---                 | 74.00             | 35.09          | 50.0          | 1000.000           | 150.0          | H   | 230.0            |
| 2596.400000        | ---                 | 25.81               | 54.00             | 18.19          | 50.0          | 1000.000           | 150.0          | H   | 230.0            |

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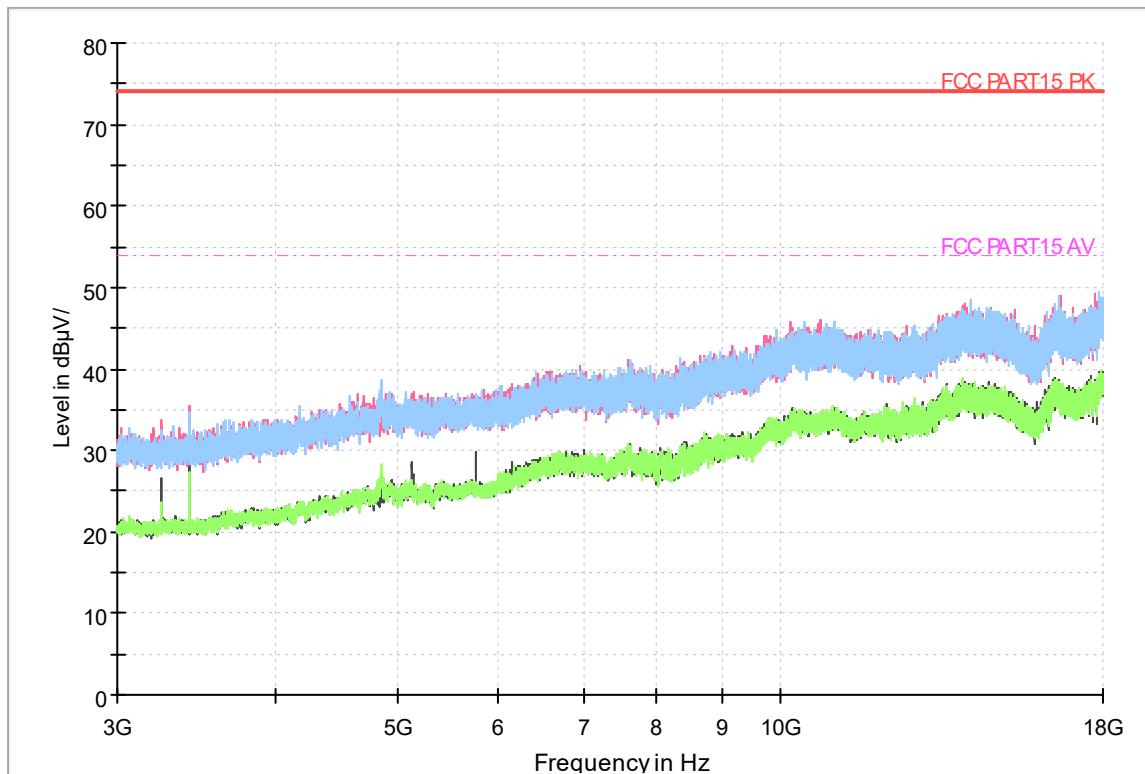


Fig.161 Radiated emission: 11n(40M) Ch3, 3GHz-18GHz

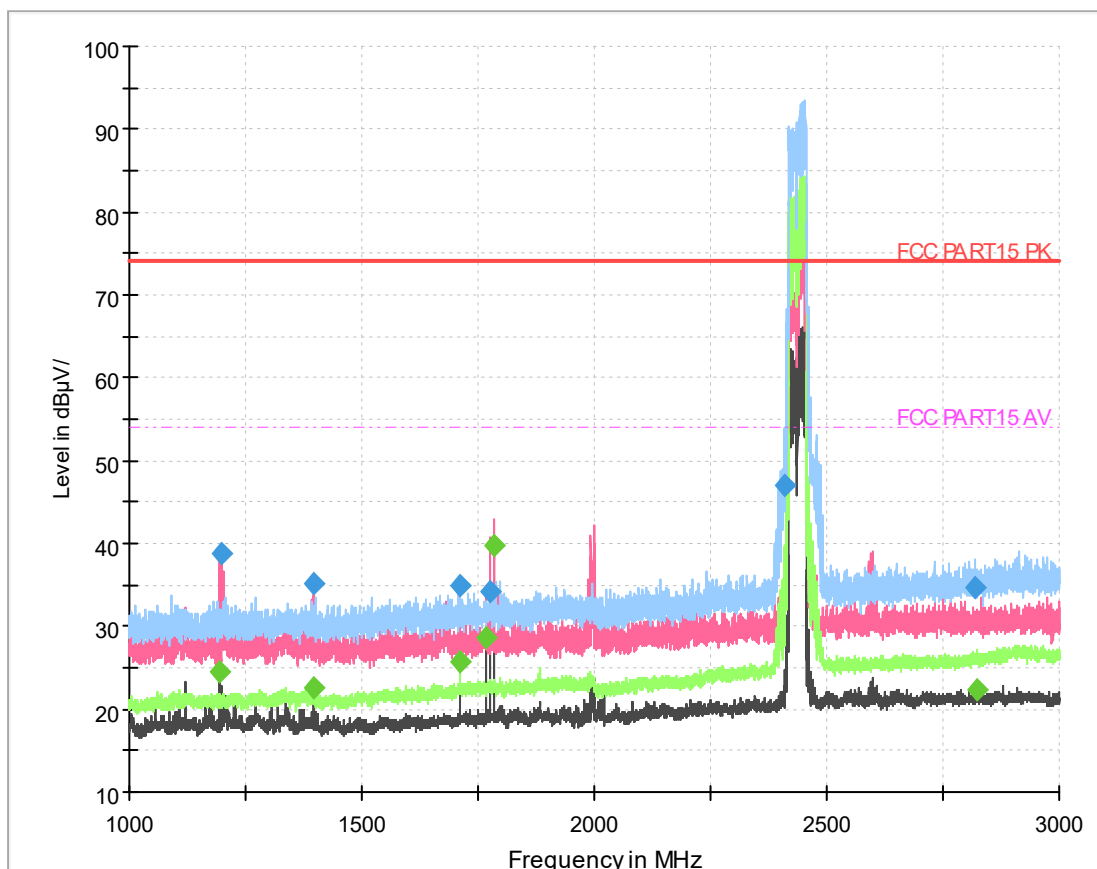


Fig.162 Radiated emission: 11n(40M) Ch6, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 1710.600000        | ---                 | 25.64               | 54.00             | 28.36          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 1710.800000        | 34.94               | ---                 | 74.00             | 39.06          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 2411.600000        | 47.10               | ---                 | 74.00             | 26.90          | 50.0          | 1000.000           | 150.0          | V   | 270.0            |
| 2817.800000        | 34.78               | ---                 | 74.00             | 39.22          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2822.600000        | ---                 | 22.29               | 54.00             | 31.71          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1197.600000        | 38.91               | ---                 | 74.00             | 35.09          | 50.0          | 1000.000           | 150.0          | H   | 150.0            |
| 1195.200000        | ---                 | 24.58               | 54.00             | 19.42          | 50.0          | 1000.000           | 150.0          | H   | 150.0            |
| 1395.000000        | 35.21               | ---                 | 74.00             | 38.79          | 50.0          | 1000.000           | 150.0          | H   | 64.0             |
| 1398.400000        | ---                 | 22.54               | 54.00             | 21.46          | 50.0          | 1000.000           | 150.0          | H   | 64.0             |
| 1783.600000        | ---                 | 39.84               | 54.00             | 14.16          | 50.0          | 1000.000           | 150.0          | H   | 147.0            |
| 1776.400000        | 34.26               | ---                 | 74.00             | 39.74          | 50.0          | 1000.000           | 150.0          | H   | 147.0            |
| 1766.200000        | ---                 | 28.75               | 54.00             | 25.25          | 50.0          | 1000.000           | 150.0          | H   | 120.0            |

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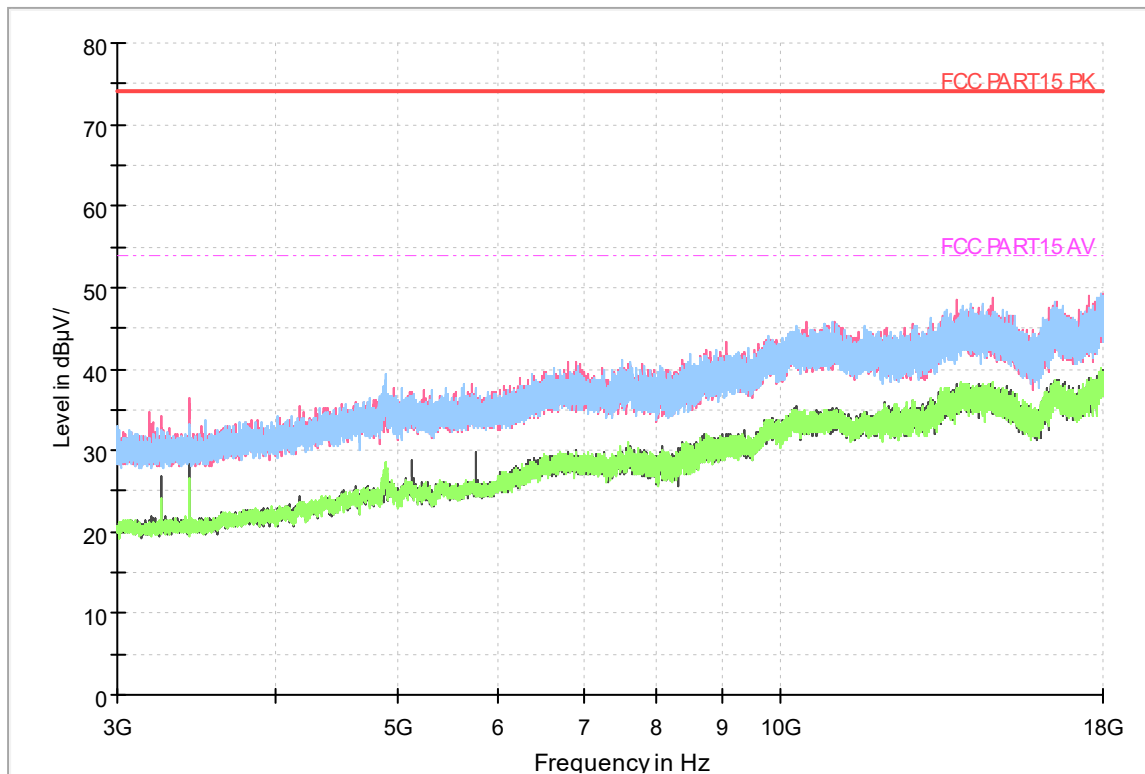


Fig.163 Radiated emission: 11n(40M) Ch6, 3GHz-18GHz

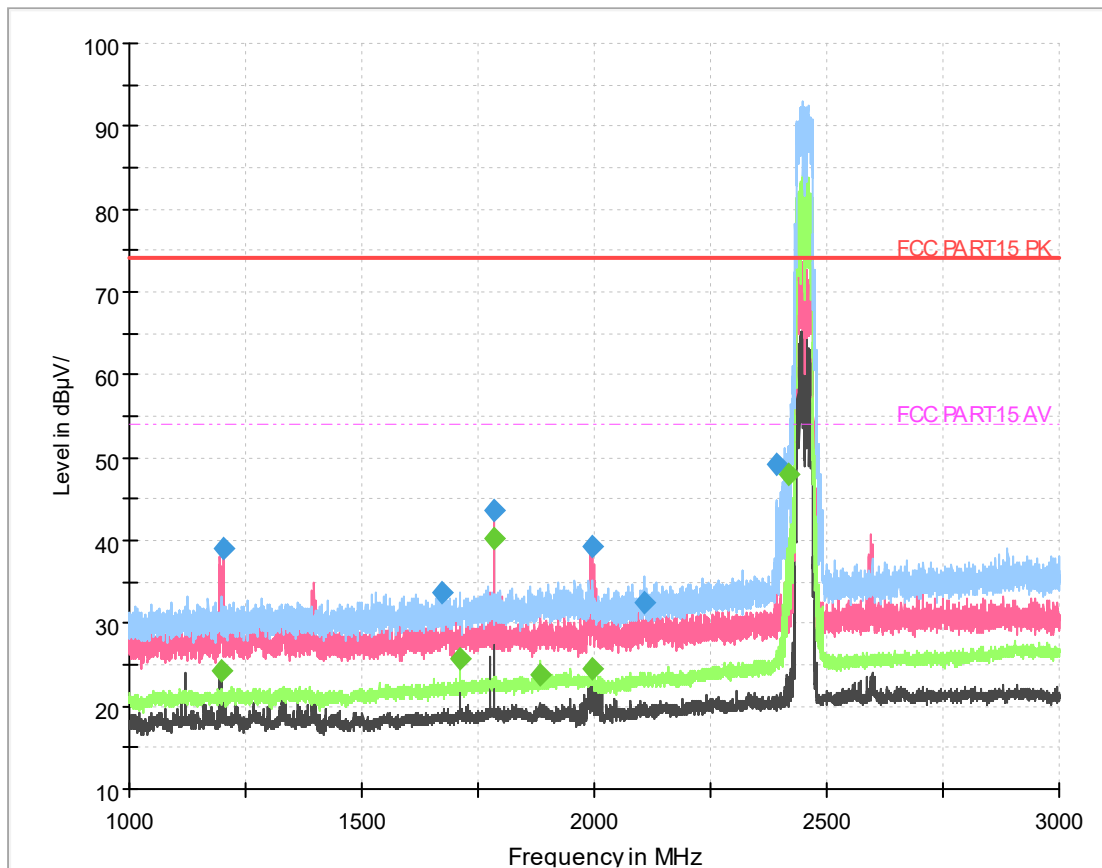


Fig.164 Radiated emission: 11n(40M) Ch9, 1GHz-3GHz

### Final Result

| Frequency<br>(MHz) | MaxPeak<br>(dBμV/m) | Average<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>(kHz) | Height<br>(cm) | Pol | Azimuth<br>(deg) |
|--------------------|---------------------|---------------------|-------------------|----------------|---------------|--------------------|----------------|-----|------------------|
| 1673.800000        | 33.69               | ---                 | 74.00             | 40.31          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 1710.600000        | ---                 | 25.63               | 54.00             | 28.37          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 1882.000000        | ---                 | 23.90               | 54.00             | 30.10          | 50.0          | 1000.000           | 150.0          | H   | 90.0             |
| 2109.000000        | 32.55               | ---                 | 74.00             | 41.45          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2392.800000        | 49.25               | ---                 | 74.00             | 24.75          | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 2416.800000        | ---                 | 48.07               | 54.00             | 5.93           | 50.0          | 1000.000           | 150.0          | H   | 180.0            |
| 1201.200000        | 38.99               | ---                 | 74.00             | 35.01          | 50.0          | 1000.000           | 150.0          | H   | 155.0            |
| 1198.200000        | ---                 | 24.25               | 54.00             | 19.75          | 50.0          | 1000.000           | 150.0          | H   | 155.0            |
| 1783.800000        | 43.54               | ---                 | 74.00             | 30.46          | 50.0          | 1000.000           | 150.0          | H   | 175.0            |
| 1783.600000        | ---                 | 40.18               | 54.00             | 13.82          | 50.0          | 1000.000           | 150.0          | H   | 175.0            |
| 1993.800000        | 39.16               | ---                 | 74.00             | 34.84          | 50.0          | 1000.000           | 150.0          | H   | 103.0            |
| 1993.600000        | ---                 | 24.47               | 54.00             | 29.53          | 50.0          | 1000.000           | 150.0          | H   | 103.0            |

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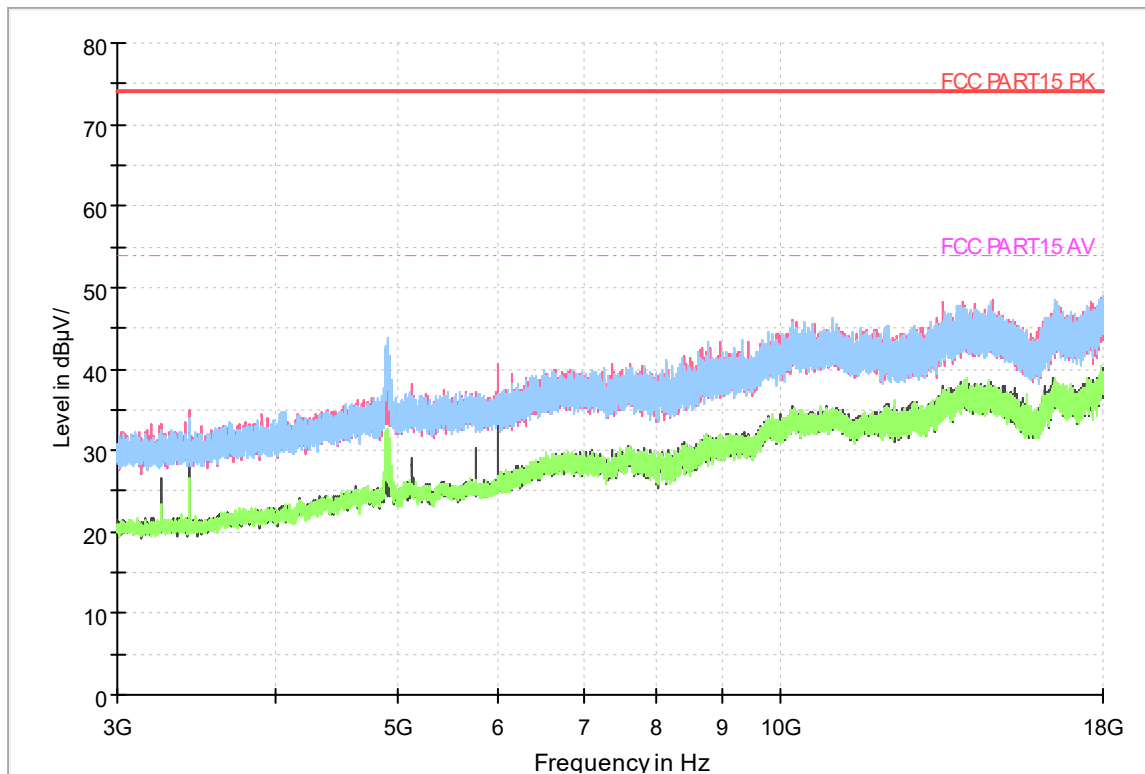


Fig.165 Radiated emission: 11n(40M) Ch9, 3GHz-18GHz

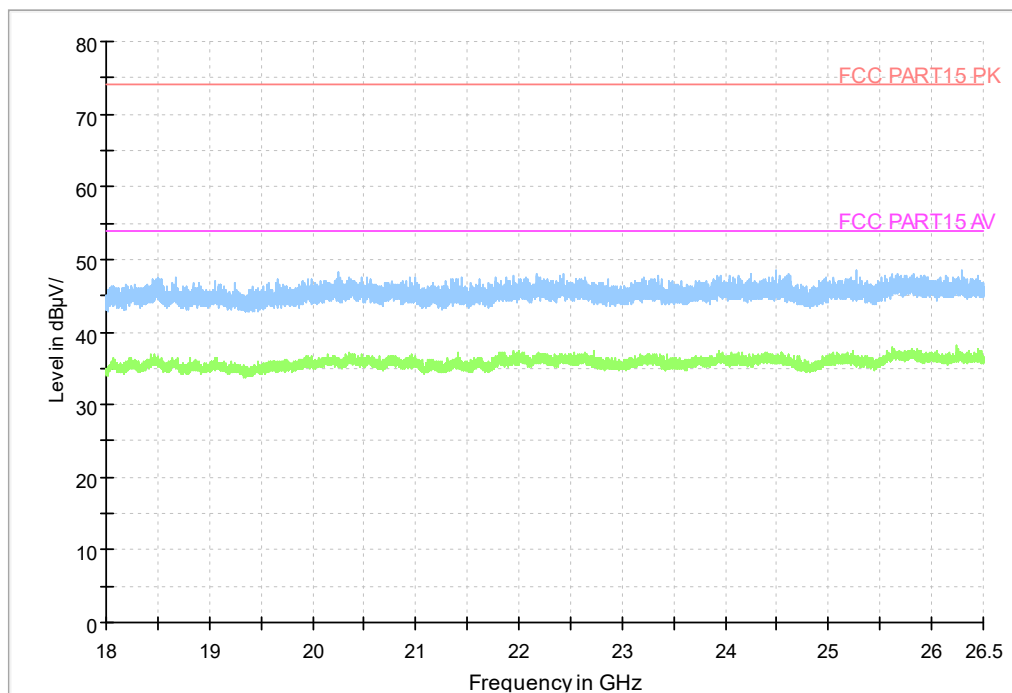


Fig.166 Radiated emission: 18 GHz - 26.5 GHz

### Test photo

See the document "Wifi\_BT\_Test Setup Photos".

## 6.8. Power line Conducted Emissions

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | ANSI C63.10 voltage mains test                                                        |
| <b>DUT Serial Number:</b> | M900332GYA111300009                                                                   |
| <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

The EUT meets the requirement of having a peak to average ratio of less than 13dB.

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

### Measurement Uncertainty:

| Frequency Range   | Uncertainty |
|-------------------|-------------|
| 150 kHz to 30 MHz | 1.83        |

### Limits of the conducted disturbance at the AC mains ports:

| Frequency range                                                                                           | Limit(Quasi-peak)             | Limit(Average)                |
|-----------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|
| 0.15 MHz to 0.5 MHz                                                                                       | 66 dB $\mu$ V – 56 dB $\mu$ V | 56 dB $\mu$ V – 46 dB $\mu$ V |
| >0.5 MHz to 5MHz                                                                                          | 56 dB $\mu$ V                 | 46 dB $\mu$ V                 |
| >5 MHz to 30 MHz                                                                                          | 60 dB $\mu$ V                 | 50 dB $\mu$ V                 |
| NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. |                               |                               |

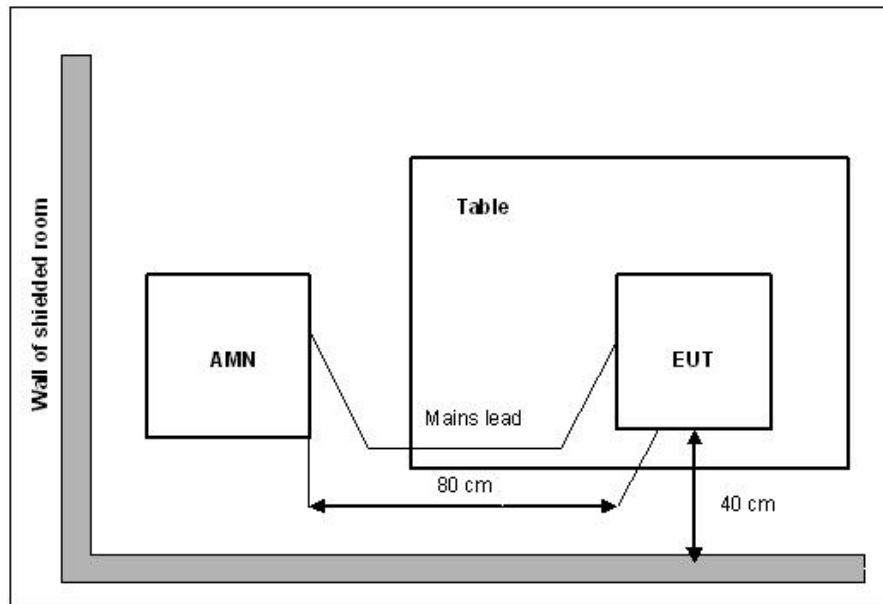
Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

### Test Setup

The EUT was placed in a shielding room. The WLAN TESTER was used to set the TX channel and power level. The ac adapter output is connected to Receiver through an AMN (Artificial Mains Network).

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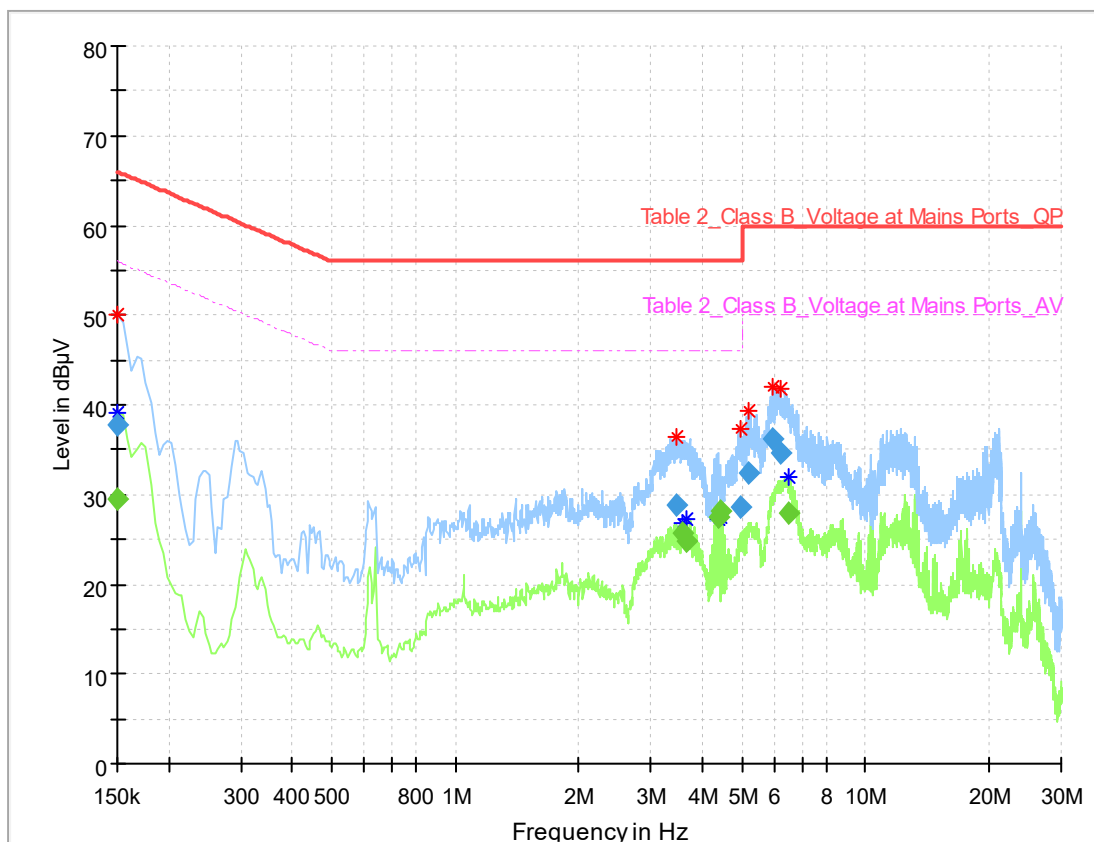
### Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

The measurement is made according to ANSI C63.10-2013.

**Conclusion: PASS**

## Test Result:

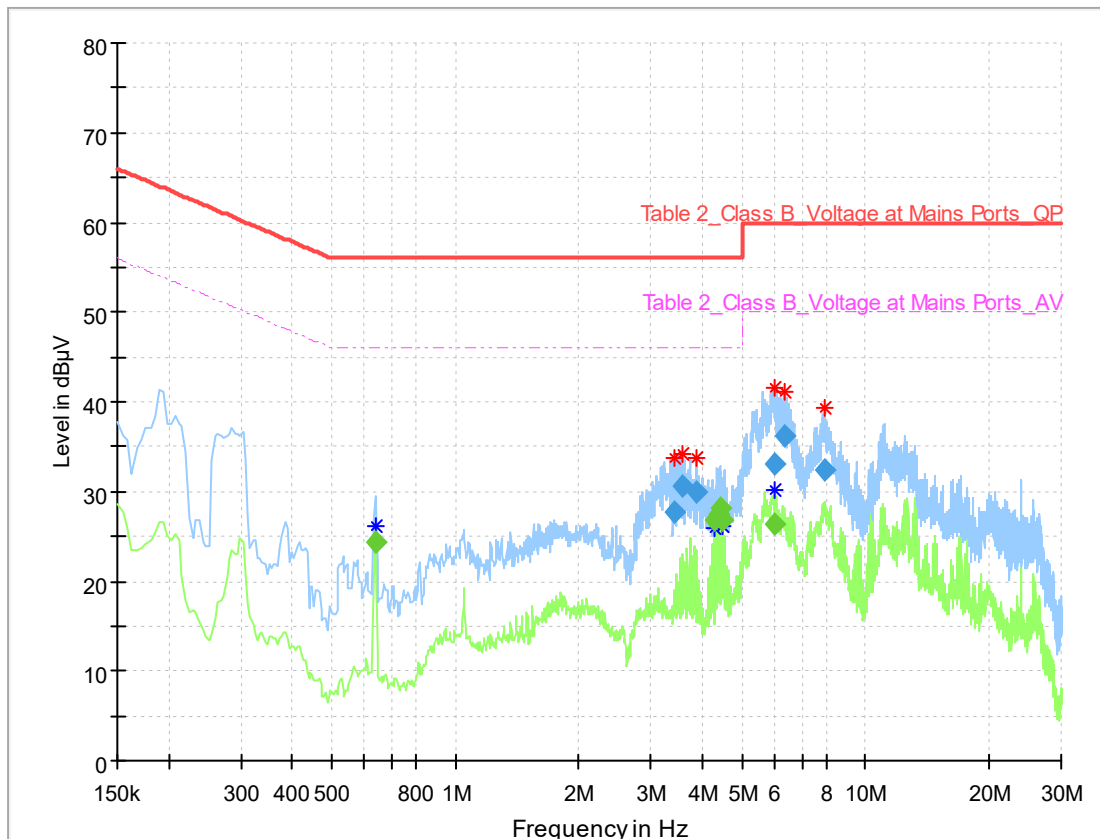


## Final Result 1

| Frequency<br>(MHz) | QuasiPeak<br>(dB $\mu$ V) | Average<br>(dB $\mu$ V) | Limit<br>(dB $\mu$ V) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>h | Line |
|--------------------|---------------------------|-------------------------|-----------------------|----------------|---------------|----------------|------|
| 0.150000           | 37.71                     | ---                     | 66.00                 | 28.29          | 100.0         | 9.000          | +    |
| 0.150000           | ---                       | 29.40                   | 56.00                 | 26.60          | 100.0         | 9.000          | +    |
| 3.459838           | 28.90                     | ---                     | 56.00                 | 27.10          | 100.0         | 9.000          | +    |
| 3.591529           | ---                       | 25.78                   | 46.00                 | 20.22          | 100.0         | 9.000          | +    |
| 3.679324           | ---                       | 24.73                   | 46.00                 | 21.27          | 100.0         | 9.000          | +    |
| 4.359728           | ---                       | 27.46                   | 46.00                 | 18.54          | 100.0         | 9.000          | +    |
| 4.408015           | ---                       | 28.10                   | 46.00                 | 17.90          | 100.0         | 9.000          | +    |
| 4.978677           | 28.55                     | ---                     | 56.00                 | 27.45          | 100.0         | 9.000          | +    |
| 5.189382           | 32.49                     | ---                     | 60.00                 | 27.51          | 100.0         | 9.000          | +    |
| 5.961971           | 36.18                     | ---                     | 60.00                 | 23.82          | 100.0         | 9.000          | +    |
| 6.181456           | 34.65                     | ---                     | 60.00                 | 25.35          | 100.0         | 9.000          | +    |
| 6.501904           | ---                       | 27.88                   | 50.00                 | 22.12          | 100.0         | 9.000          | +    |

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## Final Result 1

| Frequency<br>(MHz) | QuasiPeak<br>(dB $\mu$ V) | Average<br>(dB $\mu$ V) | Limit<br>(dB $\mu$ V) | Margin<br>(dB) | Meas.<br>Time | Bandwidth<br>h | Line |
|--------------------|---------------------------|-------------------------|-----------------------|----------------|---------------|----------------|------|
| 0.637257           | ---                       | 24.29                   | 46.00                 | 21.71          | 100.0         | 9.000          | -    |
| 3.420331           | 27.60                     | ---                     | 56.00                 | 28.40          | 100.0         | 9.000          | -    |
| 3.560802           | 30.68                     | ---                     | 56.00                 | 25.32          | 100.0         | 9.000          | -    |
| 3.863691           | 29.89                     | ---                     | 56.00                 | 26.11          | 100.0         | 9.000          | -    |
| 4.271934           | ---                       | 26.92                   | 46.00                 | 19.08          | 100.0         | 9.000          | -    |
| 4.359728           | ---                       | 27.44                   | 46.00                 | 18.56          | 100.0         | 9.000          | -    |
| 4.408015           | ---                       | 28.13                   | 46.00                 | 17.87          | 100.0         | 9.000          | -    |
| 4.495809           | ---                       | 26.73                   | 46.00                 | 19.27          | 100.0         | 9.000          | -    |
| 5.992699           | ---                       | 26.29                   | 50.00                 | 23.71          | 100.0         | 9.000          | -    |
| 6.005868           | 33.18                     | ---                     | 60.00                 | 26.82          | 100.0         | 9.000          | -    |
| 6.317537           | 36.24                     | ---                     | 60.00                 | 23.76          | 100.0         | 9.000          | -    |
| 7.950507           | 32.35                     | ---                     | 60.00                 | 27.65          | 100.0         | 9.000          | -    |

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## **Annex A EUT Photos**

See the document "SNM900-External Photos".

See the document "SNM900-Internal Photos".

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## **ANNEX B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

**\*\*\*END OF REPORT\*\*\***

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