

# TEST REPORT

**REPORT NUMBER: B19W50651-WLAN\_Rev2**

**ON**

**Type of Equipment:** Tracker  
**Model Name:** PT200LSV  
**Manufacturer:** Micron Electronics LLC.

**ACCORDING TO**

**FCC Part 15, Subpart C, 2019:**

**15.205 Restricted bands of operation,**

**15.209 Radiated emission limits; general requirements,**

**15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz**

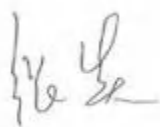
**ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices**

**Chongqing Academy of Information and Communications Technology**

*Month date, year*

*Jan, 14, 2020*

Signature



**Zhang Yan**  
**Director**

# Chongqing Academy of Information and Communications Technology

## Report No.:B19W50651-WLAN\_Rev2

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.

**Revision Version**

| <b>Report Number</b>  | <b>Revision</b> | <b>Date</b>       | <b>Memo</b> |
|-----------------------|-----------------|-------------------|-------------|
| <b>B19W50651-WLAN</b> | <b>V0.0</b>     | <b>2019-12-27</b> | --          |
| <b>B19W50651-WLAN</b> | <b>V1.0</b>     | <b>2020-01-08</b> | --          |
| <b>B19W50651-WLAN</b> | <b>V2.0</b>     | <b>2020-01-14</b> | --          |

# Chongqing Academy of Information and Communications Technology

**Report No.:B19W50651-WLAN\_Rev2**

**FCC ID:** ZKQ-PT200LSV

**Report Date:** 2020-01-14

**Test Firm Name:** Chongqing Academy of Information and Communications Technology

**FCC Registration Number:** CN1239

## Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C. The sample tested was found to comply with the requirements defined in the applied rules.

# Chongqing Academy of Information and Communications Technology

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### 1 General Information

#### 1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C and ANSI C63.10-2013 and FCC KDB 558074.

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex B.

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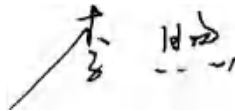
# Chongqing Academy of Information and Communications Technology

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## 1.2 Testers

Name: Li Xu  
Position: Engineer  
Department: Department of RF test  
Date: 2019-12-10 to 2020-01-07

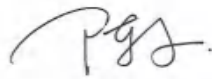
Signature:



Editor of this test report:

Name: Chen Wen  
Position: Engineer  
Department: Department of RF test  
Date: 2020-01-14

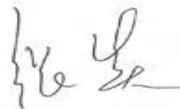
Signature:



Technical responsibility for area of testing:

Name: Zhang Yan  
Position: Manager  
Department: Director of the laboratory  
Date: 2020-01-14

Signature:



# Chongqing Academy of Information and Communications Technology

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## 1.3 Testing Laboratory information

### 1.3.1 Location

Name: Chongqing Academy of Information and Communications Technology

Address: Building B, Technology Innovation Center, No.8, Yuma Road, Chayuan New Area, Nan'an District, Chongqing, People's Republic of China, 401336

Tel: +86-23-88069965

Fax: +86-23-88608777

Email: liqiao@caict.ac.cn

### 1.3.2 Test location, where different from section 1.3.1

Name: -----

Street: -----

City: -----

Country: -----

Telephone: -----

Fax: -----

Postcode: -----

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## 1.4 Details of applicant or manufacturer

### 1.4.1 Applicant

Name: Micron Electronics LLC.  
Address: 1001 Yamato Road,Suite 400,Boca Raton,Florida,United States 33431  
Country: USA  
Telephone: +18885383489  
Fax: +18885501805  
Contact: Ping Cheng  
Email: pcheng@micron-electronics.com

### 1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Name: --  
Address: --  
Country: --  
Telephone: --  
Fax: --  
Contact: --  
Email: --

## 2 Test Item

### 2.1 General Information

|                            |                         |
|----------------------------|-------------------------|
| Manufacturer:              | Micron Electronics LLC. |
| Type of Equipment:         | Tracker                 |
| Model Name:                | PT200LSV                |
| Production Status:         | Product                 |
| Hardware Version:          | A506_V1_PCB             |
| Software Version:          | --                      |
| Normal Voltages            | 3.80 V                  |
| High Voltages              | 4.20 V                  |
| Low Voltages               | 3.40 V                  |
| Receipt date of test item: | 2019-12-10              |

### 2.2 Outline of Equipment under Test

The PT200LSV, referred to as “EUT” hereafter, is a a multi-Band wireless modem operating on the LTE/Wi-Fi/Bluetooth networks. The table below shows the supported bands for the EUT.

| Technology | Freq.(MHz)  | Note |
|------------|-------------|------|
| 2.4G WLAN  | 2400-2483.5 | --   |

### 2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

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## 2.4 Equipment Configuration

Equipment configuration list:

| Item | Generic Description | Manufacturer            | Type       | Serial No. | Remarks |
|------|---------------------|-------------------------|------------|------------|---------|
| A    | Modules             | Micron Electronics LLC. | AT Plus 4E | --         | None    |
| B    | Modules             | Micron Electronics LLC. | AT Plus 4E | --         | None    |
| C    | Adapter             | --                      | --         | --         | --      |
| D    | Battery             | --                      | --         | --         | --      |

## 2.5 Other Information

--

### 3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

| FCC Rules                      | Name of Test                            | Result |
|--------------------------------|-----------------------------------------|--------|
| 15.247(b)                      | Maximum Peak Output Power               | Pass   |
| 15.247(e)                      | Peak Power Spectral Density             | Pass   |
| 15.247(a)                      | 6dB Occupied Bandwidth                  | Pass   |
| 15.247(d)                      | Band Edges Compliance                   | Pass   |
| 15.247 (d)                     | Transmitter Spurious Emission-Conducted | Pass   |
| 15.247, 15.205, 15.209         | Transmitter Spurious Emission-Radiated  | Pass   |
| ANSI C63.10 voltage mains test | Power line Conducted Emissions          | Pass   |
| Note:--                        |                                         |        |

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## 4 Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

| No. | Equipment                            | Model           | SN          | Manufacture | Cal. Due Date |
|-----|--------------------------------------|-----------------|-------------|-------------|---------------|
| 1   | EMI Test Receiver                    | ESU26           | 100367      | R&S         | 2020-03-01    |
| 2   | Trilog super broad band test antenna | VULB 9163       | 9163-544    | R&S         | 2020-11-23    |
| 3   | Double-Ridged Horn Antenna           | HF907           | 100357      | R&S         | 2021-06-22    |
| 4   | Fully-Anechoic Chamber               | 11.8m×6.5m×6.3m | --          | ETS         | 2020-10-22    |
| 5   | Universal Radio Communication Tester | SP8315          | SP8315-1249 | StarPoint   | 2020-03-01    |
| 6   | Signal Generator                     | SMU200A         | 104517      | R&S         | 2020-03-01    |
| 7   | Spectrum analyzer                    | FSQ 26          | 201137/026  | R&S         | 2020-03-01    |
| 8   | spectrum analyzer                    | N9020A          | MY50200376  | Agilent     | 2020-03-01    |
| 9   | DC Power Supply                      | N6705B          | MY50000919  | Agilent     | 2020-12-04    |
| 10  | Climate chamber                      | SH-241          | 92010759    | ESPEC       | 2020-03-01    |

### 5 Test Results

#### 5.1 Maximum Peak Output Power

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC Part 15.247(b)                                                                  |
| <b>DUT Serial Number:</b> | 353081090308407                                                                     |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | Pass                                                                                |

#### Limit Level Construction:

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For systems using digital modulation in the bands of 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz: 1 watt.
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Measurement Uncertainty:

|                         |        |
|-------------------------|--------|
| Measurement Uncertainty | ±1.0dB |
|-------------------------|--------|

#### Test Method1:

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.
3. Set RBW  $\geq$  OBW, Set the appropriate VBW
4. Set sPan=zero
5. Sweep time=auto couple
6. Detector : Peak.
7. Trace mode: Max Hold

#### Test Method2:

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.
3. Set RBW =1MHz , VBW=3MHz
4. Detector=peak
5. Sweep time=auto couple
6. Trace mode: Max Hold

**Note:** The test image shows only the worst-case results.

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## Measurement Results:

### 802.11b/g mode

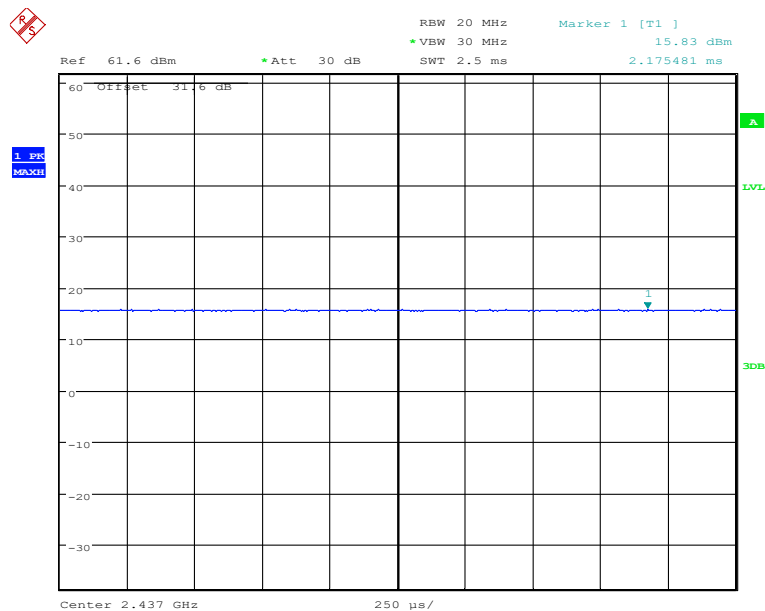
| Mode    | Data Rate(Mbps) | Teat Result(dBm) |       |       | Conclusion |
|---------|-----------------|------------------|-------|-------|------------|
|         |                 | Ch1              | Ch6   | Ch11  |            |
| 802.11b | 1               | 14.14            | 15.83 | 15.06 | Pass       |
|         | 2               | 14.01            | 15.57 | 15.10 | Pass       |
|         | 5.5             | 13.88            | 15.42 | 14.87 | Pass       |
|         | 11              | 13.95            | 15.39 | 14.89 | Pass       |
| 802.11g | 6               | 16.53            | 17.67 | 17.16 | Pass       |
|         | 9               | 16.93            | 17.83 | 16.75 | Pass       |
|         | 12              | 16.24            | 17.03 | 16.76 | Pass       |
|         | 18              | 16.35            | 16.81 | 16.52 | Pass       |
|         | 24              | 16.68            | 16.84 | 16.77 | Pass       |
|         | 36              | 16.35            | 16.93 | 16.65 | Pass       |
|         | 48              | 16.21            | 17.36 | 16.33 | Pass       |
|         | 54              | 16.20            | 16.92 | 16.90 | Pass       |

### 802.11n mode

| Mode               | Data Rate(Mbps) | Teat Result(dBm) |       |       | Conclusion |
|--------------------|-----------------|------------------|-------|-------|------------|
|                    |                 | Ch1              | Ch6   | Ch11  |            |
| 802.11n<br>(20MHz) | MCS0            | 16.24            | 17.14 | 16.68 | Pass       |
|                    | MCS1            | 15.61            | 17.14 | 16.79 | Pass       |
|                    | MCS2            | 15.78            | 17.10 | 16.44 | Pass       |
|                    | MCS3            | 16.01            | 16.95 | 16.50 | Pass       |
|                    | MCS4            | 15.94            | 16.99 | 16.48 | Pass       |
|                    | MCS5            | 16.53            | 17.08 | 16.80 | Pass       |
|                    | MCS6            | 16.39            | 16.63 | 16.31 | Pass       |
|                    | MCS7            | 16.07            | 17.52 | 16.57 | Pass       |
| 802.11n<br>(40MHz) | MCS0            | 17.61            | 17.81 | 17.63 | Pass       |
|                    | MCS1            | 17.29            | 17.32 | 17.30 | Pass       |
|                    | MCS2            | 17.25            | 17.35 | 17.20 | Pass       |
|                    | MCS3            | 17.69            | 17.64 | 17.58 | Pass       |
|                    | MCS4            | 17.35            | 17.68 | 17.50 | Pass       |
|                    | MCS5            | 17.51            | 17.72 | 17.50 | Pass       |
|                    | MCS6            | 17.45            | 17.65 | 17.39 | Pass       |
|                    | MCS7            | 17.45            | 17.56 | 17.43 | Pass       |

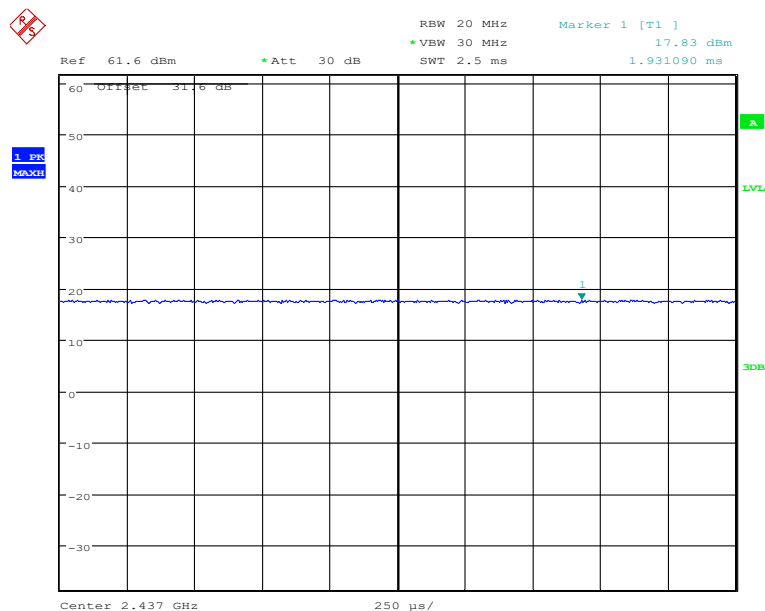
**Conclusion: PASS**

Test figure as below:



Date: 7.JAN.2020 15:46:44

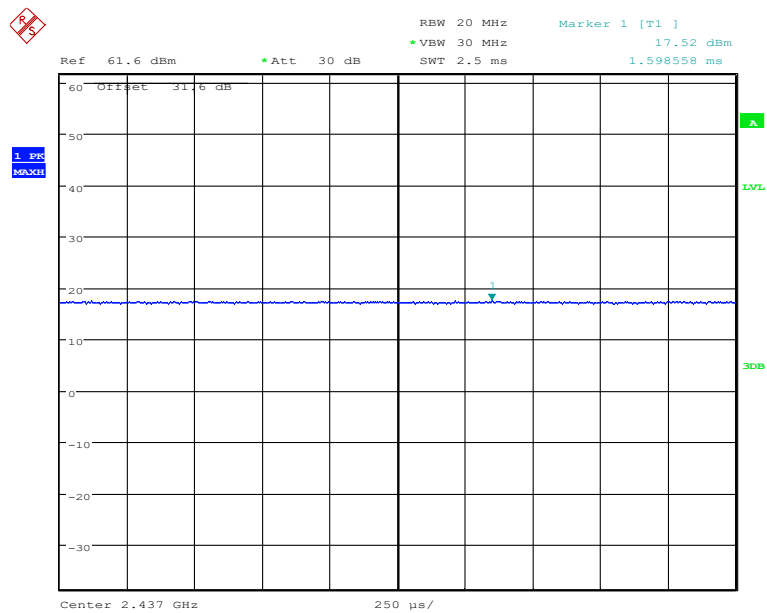
Fig.1 Peak Conducted Output Power CH6, 11b, Rate1



Date: 7.JAN.2020 15:47:23

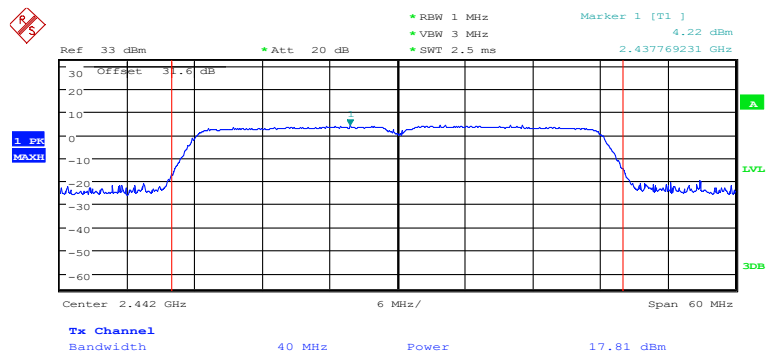
Fig.2 Conducted Output Power CH6, 11g, Rate9

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Date: 7.JAN.2020 15:51:46

Fig.3 Conducted Output Power CH6, 11n, Rate MCS7



Date: 7.DEC.2019 07:29:48

Fig.4 Conducted Output Power CH6, 11n(40M), Rate MCS0

### 5.2 Peak Power Spectral Density

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC CFR Part 15.247(e)                                                              |
| <b>DUT Serial Number:</b> | --                                                                                  |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | --                                                                                  |

### Limit Level Construction:

| Standard               | Limit        |
|------------------------|--------------|
| FCC CFR Part 15.247(e) | < 8dBm/3 KHz |

### Measurement Uncertainty:

|                         |              |
|-------------------------|--------------|
| Measurement Uncertainty | ±0.82dBm/KHz |
|-------------------------|--------------|

### Test procedure:

The measurement is according to ANSI C63.10 clause 11.10.

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.
3. Set analyzer center frequency to DTS channel center frequency.
4. Set the span to 1.5 times the DTS bandwidth.
5. Set the RBW to  $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$ .
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.
11. Use the peak marker function to determine the maximum amplitude level within the RBW.
12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

**Note:** --

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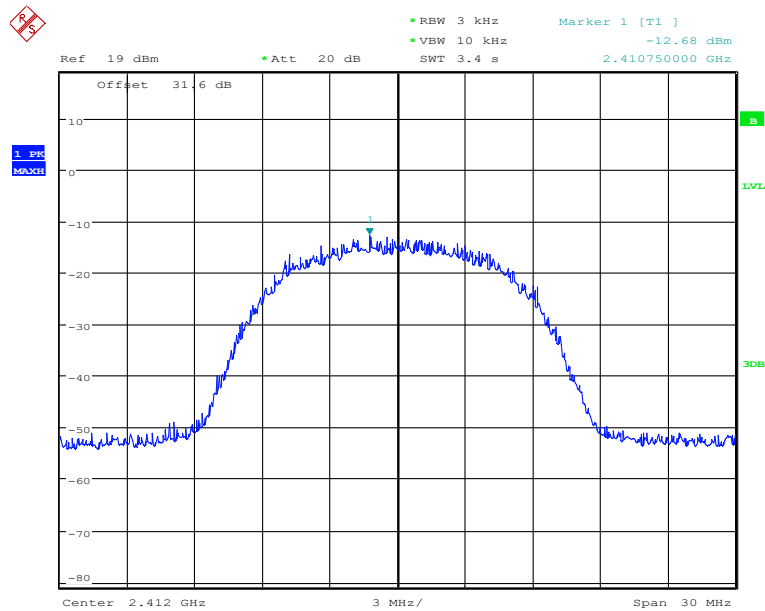
## Test Results:

802.11b/g/n mode

| Mode           | Power Spectral Density(dBm/3kHz) |        |        | Conclusion |
|----------------|----------------------------------|--------|--------|------------|
|                | Ch1                              | Ch6    | Ch11   |            |
| 802.11b        | -12.68                           | -10.77 | -11.81 | Pass       |
| 802.11g        | -18.84                           | -17.42 | -18.18 | Pass       |
| 802.11n(20MHz) | -18.72                           | -18.40 | -18.44 | Pass       |
| 802.11n(40MHz) | -21.99                           | -21.95 | -20.90 | Pass       |

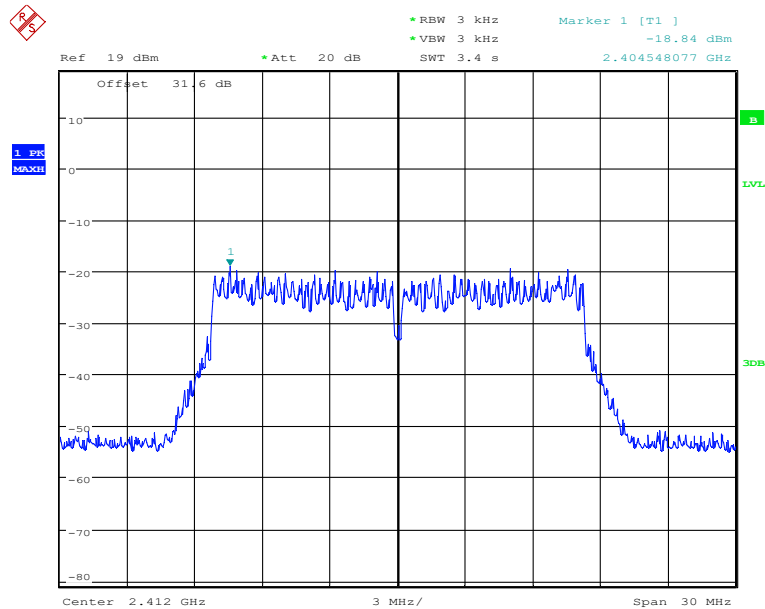
Conclusion: PASS

Test figure as below:



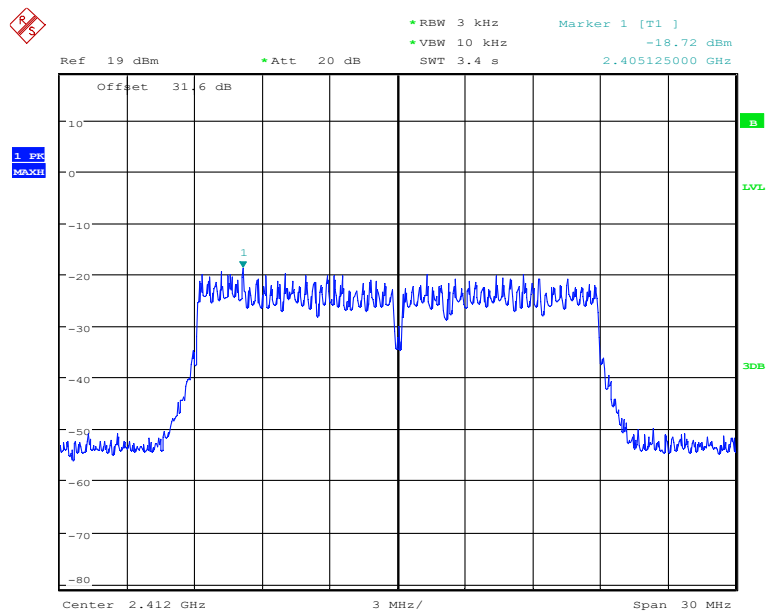
Date: 7.DEC.2019 08:09:44

Fig.5 Power spectral density: CH1,11b



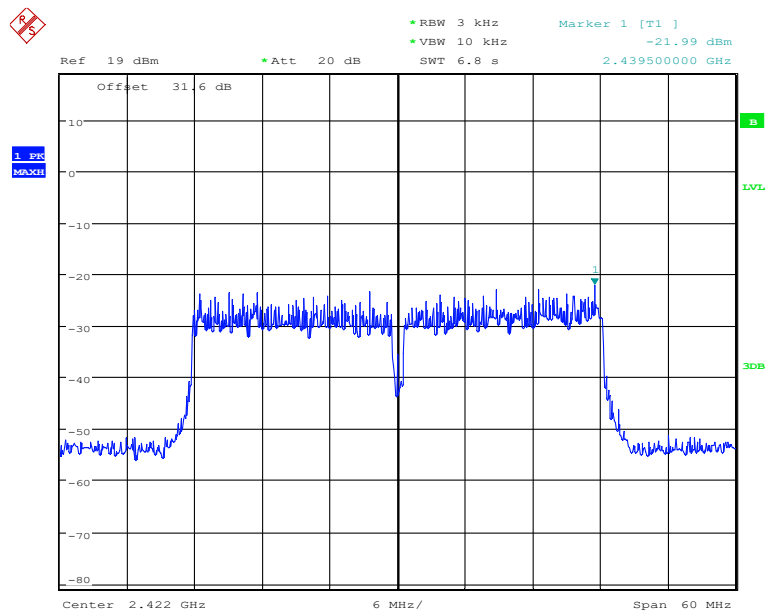
Date: 7.DEC.2019 08:11:14

Fig.6 Power spectral density: CH1,11g



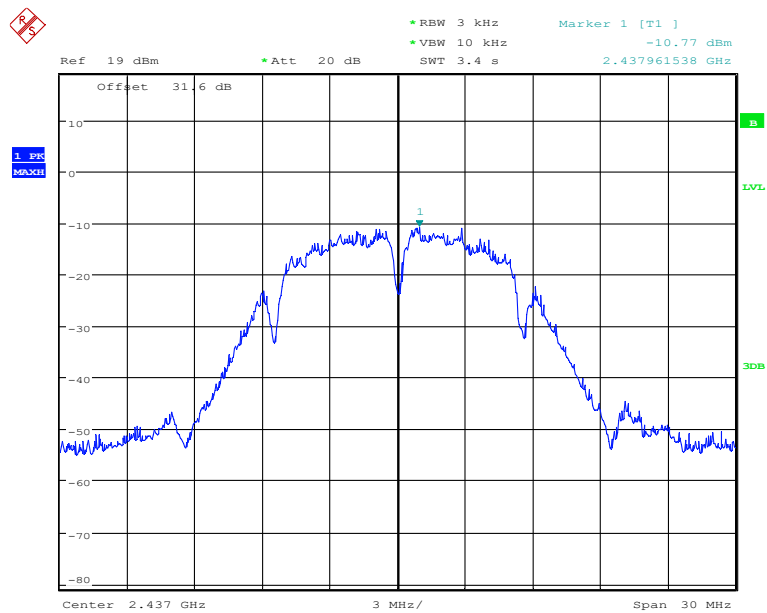
Date: 7.DEC.2019 08:12:30

Fig.7 Power spectral density: CH1,1n



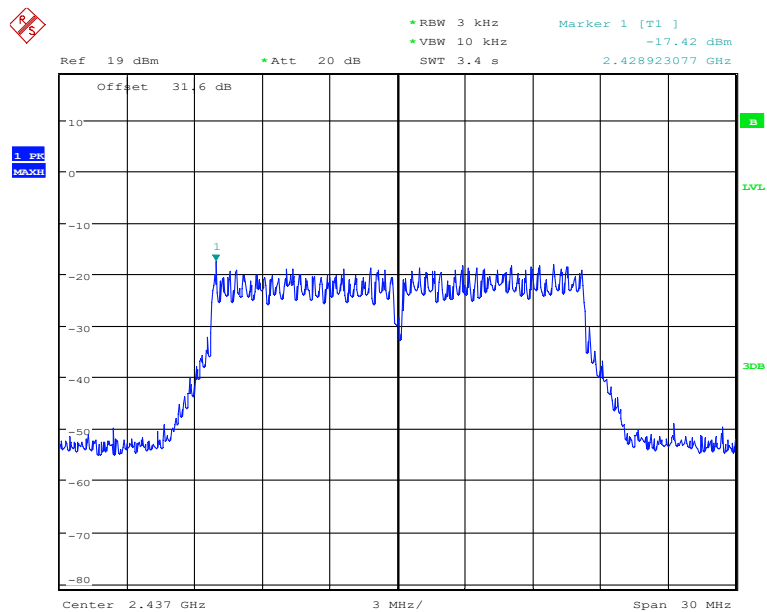
Date: 7.DEC.2019 08:13:47

Fig.8 Power spectral density: CH1,1n(40M)



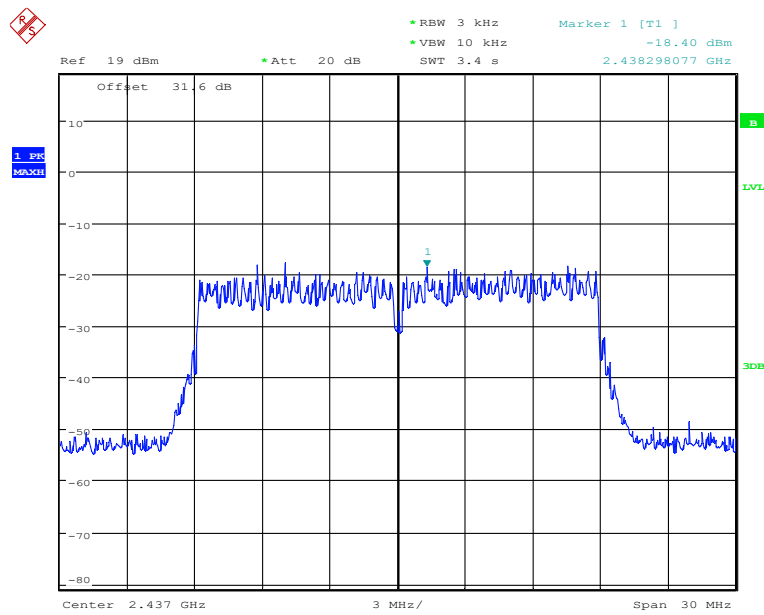
Date: 7.DEC.2019 08:16:49

Fig.9 Power spectral density: CH6,11b



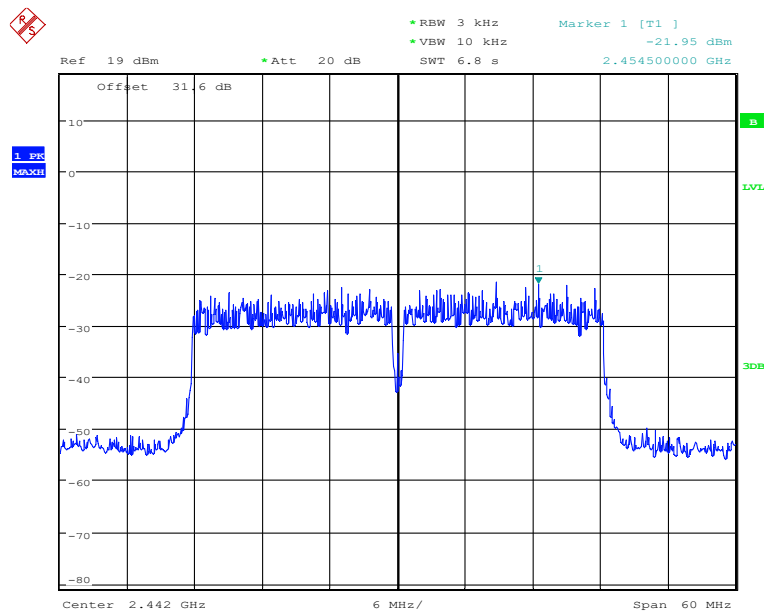
Date: 7.DEC.2019 08:17:37

Fig.10 Fig.66 Power spectral density: CH6,11g



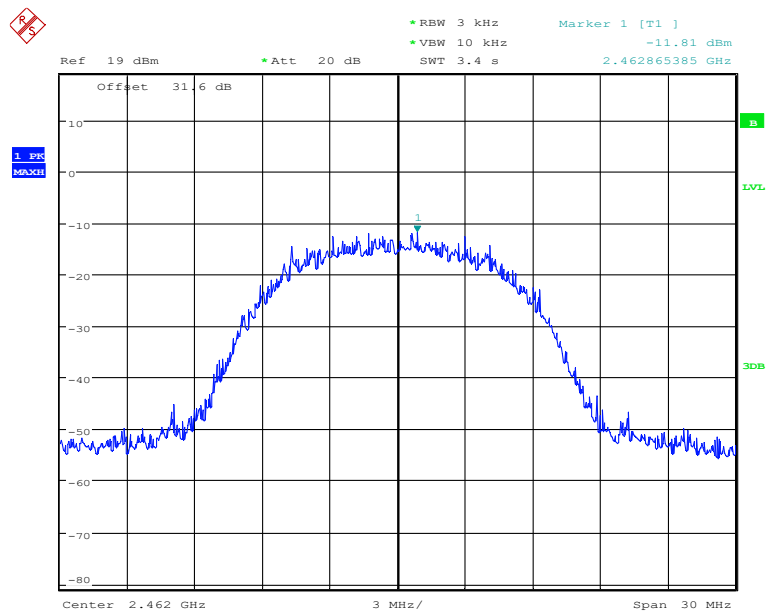
Date: 7.DEC.2019 08:18:25

Fig.11 Power spectral density: CH6,11n



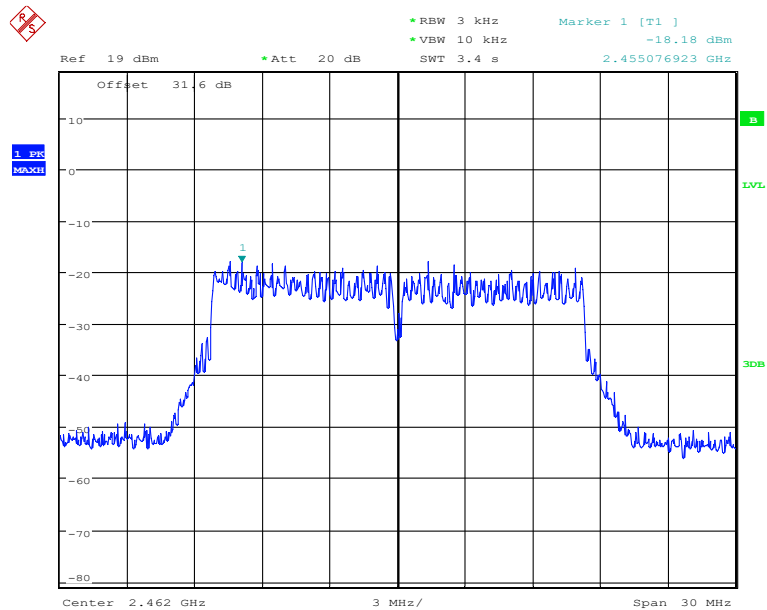
Date: 7.DEC.2019 08:19:52

Fig.12 Power spectral density: CH6,11n(40M)



Date: 7.DEC.2019 08:21:34

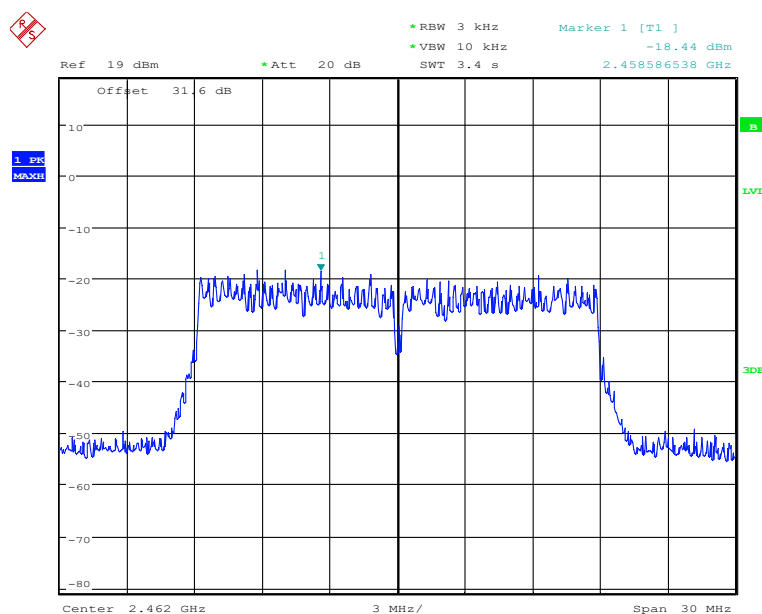
Fig.13 Power spectral density: CH11,11b



Date: 7.DEC.2019 08:22:40

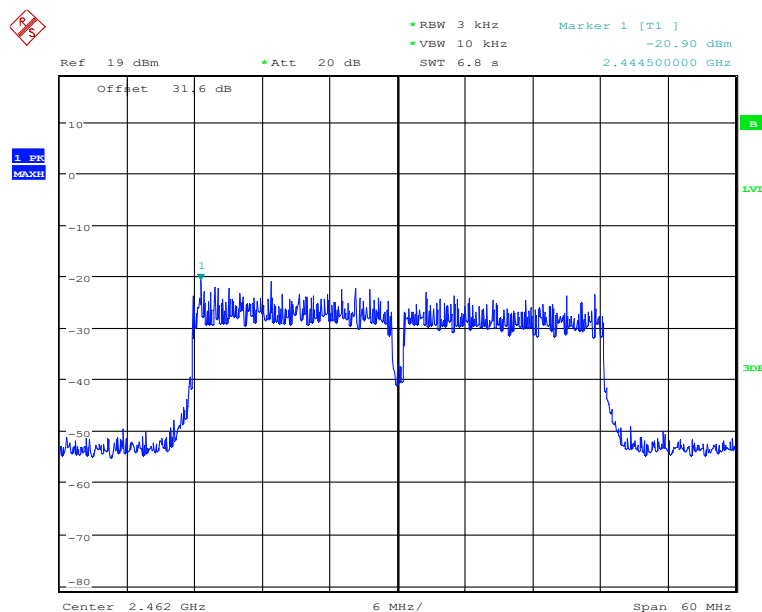
Fig.14 Power spectral density: CH11,11g

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Date: 7.DEC.2019 08:23:21

Fig.15 Power spectral density: CH11,11n



Date: 7.DEC.2019 08:24:04

Fig.16 Power spectral density: CH11,11n(40M)

### 5.3 6dB Occupied Bandwidth

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC 47 CFR Part 15.247(a)                                                           |
| <b>DUT Serial Number:</b> | --                                                                                  |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | --                                                                                  |

### Limit Level Construction:

| Standard                  | Limit(KHz) |
|---------------------------|------------|
| FCC 47 CFR Part 15.247(a) | $\geq 500$ |

### Measurement Uncertainty:

|                         |                     |
|-------------------------|---------------------|
| Measurement Uncertainty | $\pm 1.1\text{KHz}$ |
|-------------------------|---------------------|

### Test Procedure

The measurement is according to ANSI C63.10 clause 11.8.

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.
3. Set RBW = 100 kHz.
4. Set the VBW  $\geq [3 \times \text{RBW}]$ .
5. Detector = peak.
6. Trace mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize.
9. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

**Note:** --

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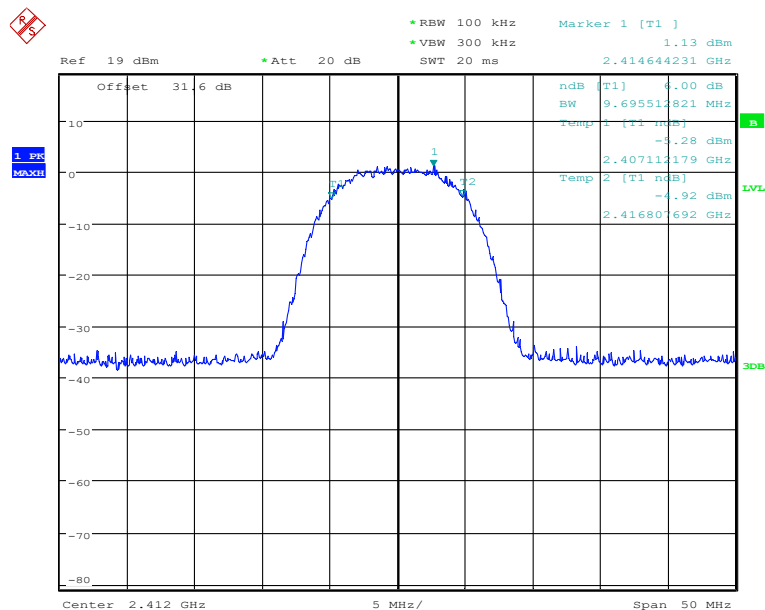
## Test Result:

802.11b/g/n mode

| Mode           | Occupied 6dB Bandwidth(MHz) |        |        | Conclusion |
|----------------|-----------------------------|--------|--------|------------|
|                | Ch1                         | Ch6    | Ch11   |            |
| 802.11b        | 9.695                       | 9.936  | 9.455  | Pass       |
| 802.11g        | 8.093                       | 8.093  | 8.093  | Pass       |
| 802.11n(20MHz) | 8.814                       | 8.734  | 6.811  | Pass       |
| 802.11n(40MHz) | 17.949                      | 17.789 | 17.788 | Pass       |

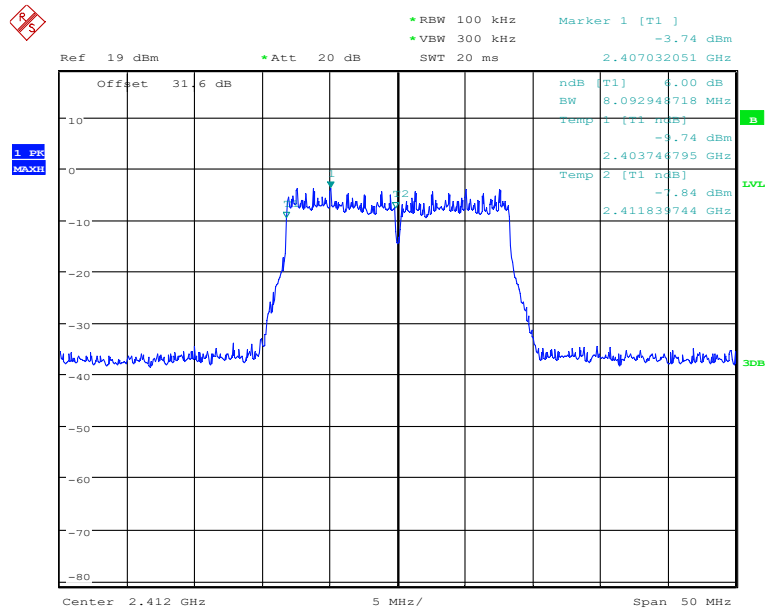
Conclusion: PASS

Test figure as below:



Date: 7.DEC.2019 08:34:01

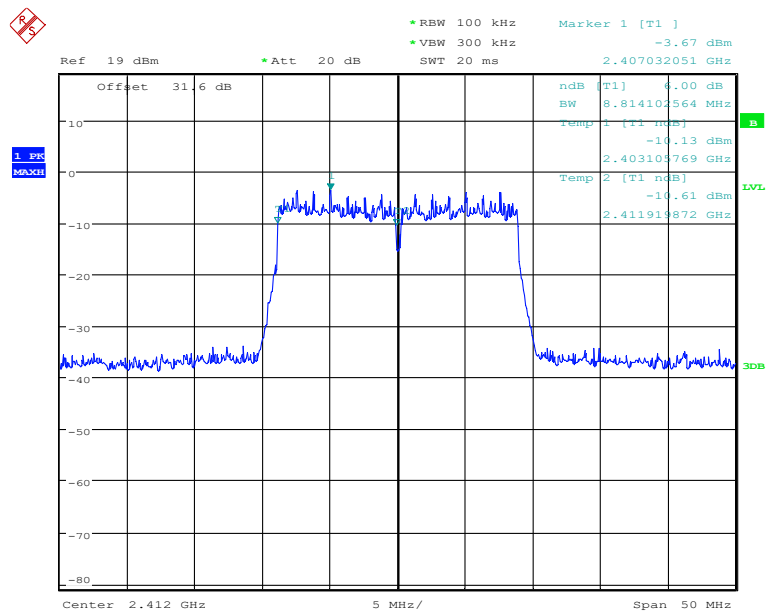
Fig.17 6dB Bandwidth: Ch1,11b



Date: 7.DEC.2019 08:35:06

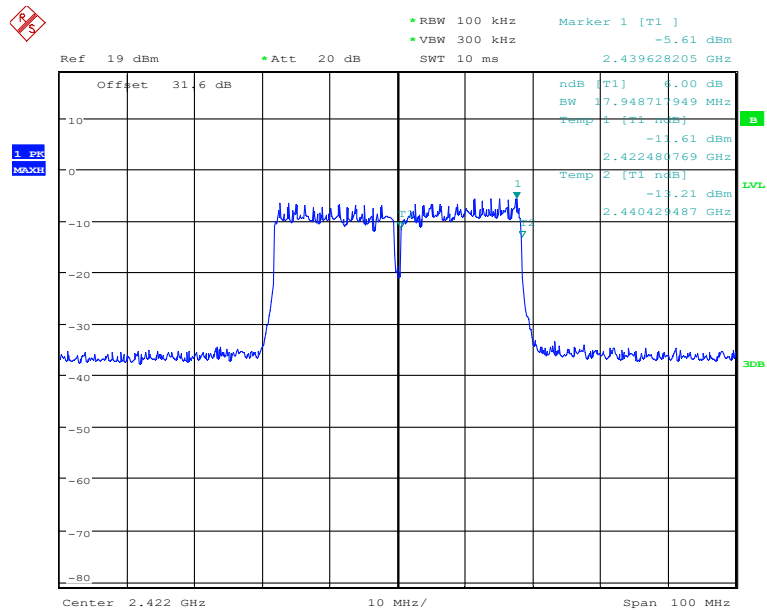
Fig.18 6dB Bandwidth: Ch1,11g

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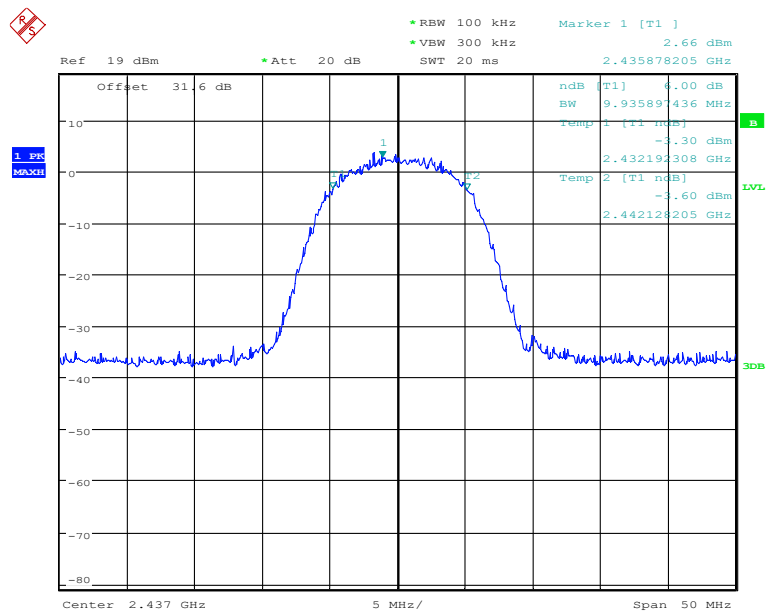
Date: 7.DEC.2019 08:35:54

Fig.19 6dB Bandwidth: Ch1,11n



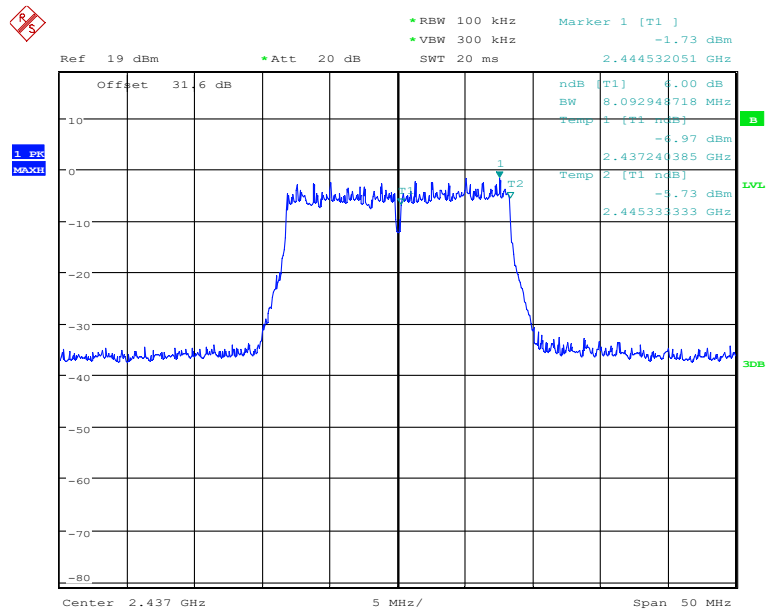
Date: 7.DEC.2019 08:37:09

Fig.20 6dB Bandwidth: Ch1,11n(40M)



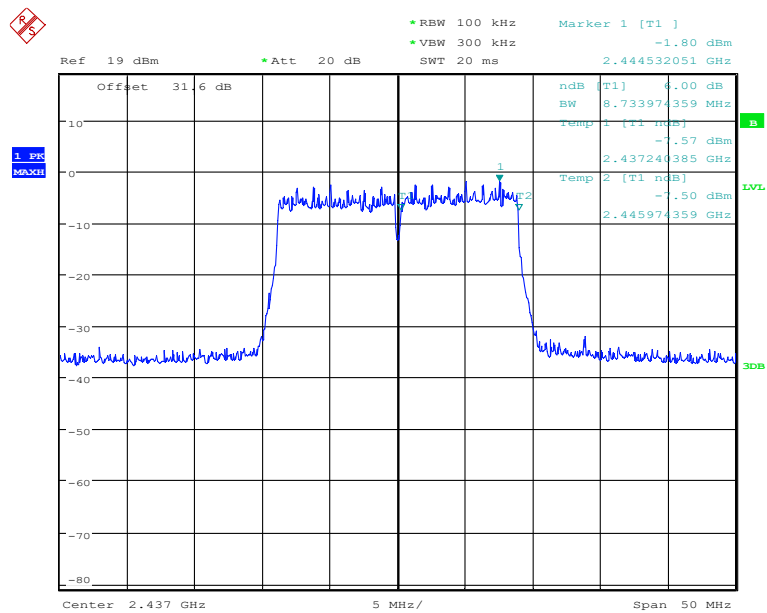
Date: 7.DEC.2019 08:38:25

Fig.21 6dB Bandwidth: Ch6,11b



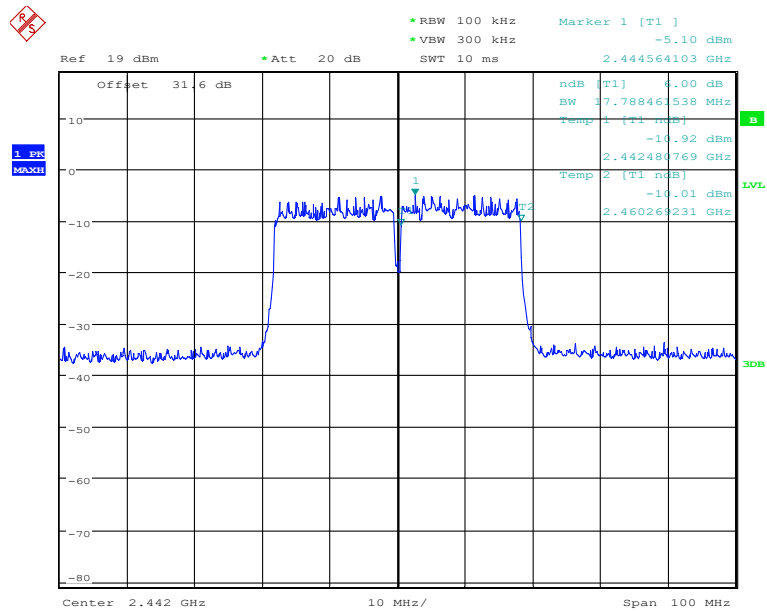
Date: 7.DEC.2019 08:39:20

Fig.22 6dB Bandwidth: Ch6,11g



Date: 7.DEC.2019 08:40:02

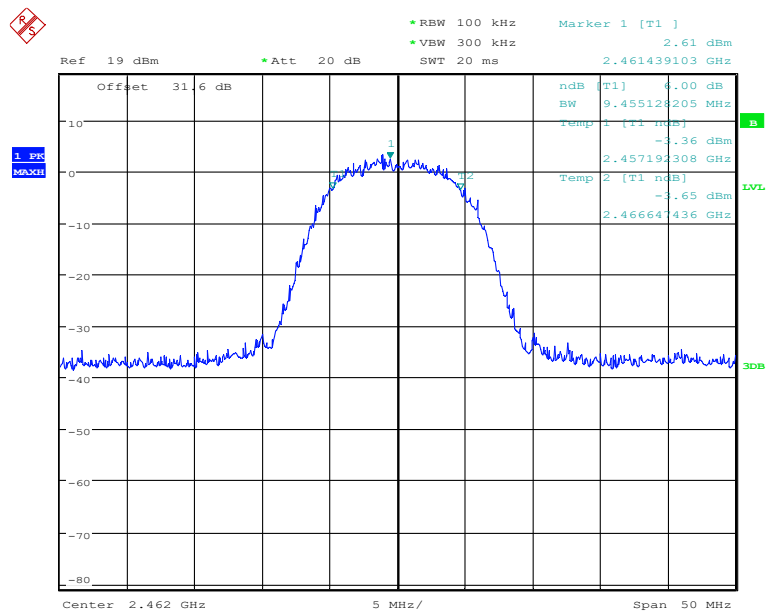
Fig.23 6dB Bandwidth: Ch6,11n



Date: 7.DEC.2019 08:41:46

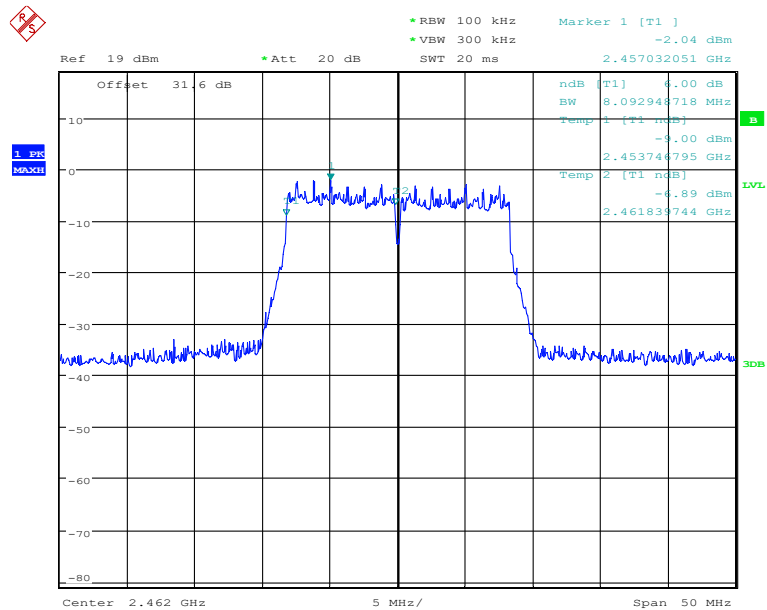
Fig.24 6dB Bandwidth: Ch6,11n(40M)

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Date: 7.DEC.2019 08:42:40

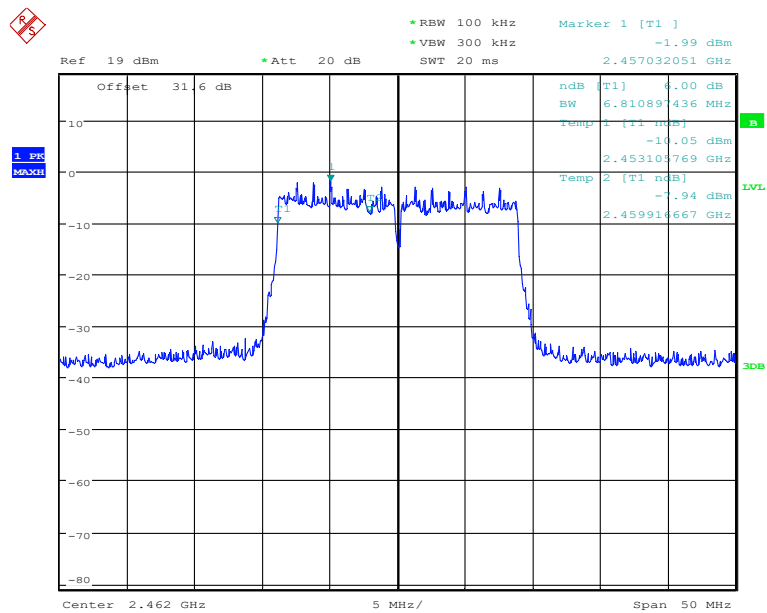
Fig.25 6dB Bandwidth: Ch11,11b



Date: 7.DEC.2019 08:43:14

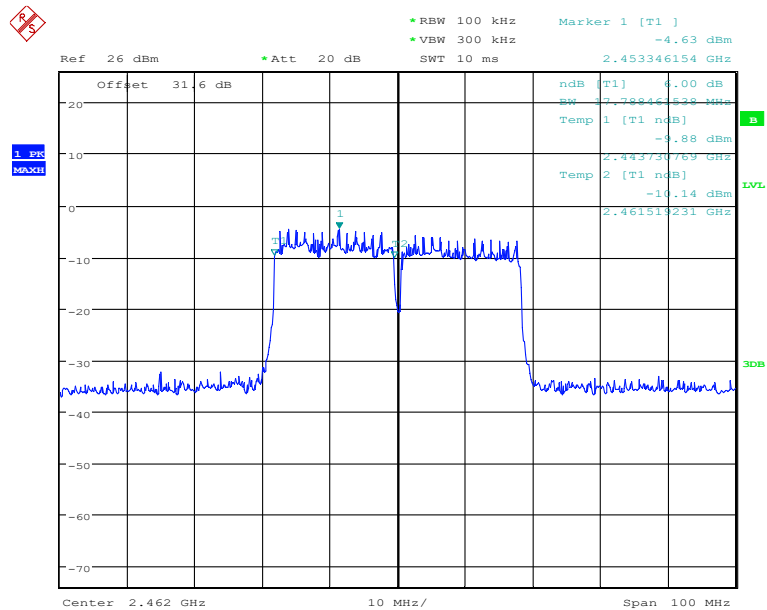
Fig.26 6dB Bandwidth: Ch11,11g

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Date: 7.DEC.2019 08:43:51

Fig.27 6dB Bandwidth: Ch11,11n



Date: 7.DEC.2019 08:45:14

Fig.28 6dB Bandwidth: Ch11,11n(40M)

### 5.4 Band Edges Compliance

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC 47 CFR Part 15.247(d)                                                           |
| <b>DUT Serial Number:</b> | --                                                                                  |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | --                                                                                  |

### Limit Level Construction:

| Standard                  | Limited(dBuV/m) |    |
|---------------------------|-----------------|----|
| FCC 47 CFR Part 15.247(d) | Peak            | 74 |
|                           | Average         | 54 |

### Measurement Uncertainty:

| Frequency Range | Uncertainty |
|-----------------|-------------|
| 1 GHz to 6 GHz  | 4.68        |

### Test Procedure

The measurement is according to ANSI C63.10 clause11.13.

1. Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
2. Reference level offset: Corrected for gains and losses of test antenna factor, preamp gain and cable loss, so as to indicate field strength, in units of dBμV/m at 3 m, directly on the instrument display. Alternatively, the reference level offset may be set to zero and calculations shall be provided showing the conversion of raw measured data to the field strength in dBμV/m at 3 m.
3. Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2..
4. Attenuation: Auto (at least 10 dB preferred).
5. Sweep time: Coupled.
6. Resolution bandwidth: Above 1 GHz: 1 MHz
7. Video bandwidth: VBW for Peak, Quasi-peak, or Average Detector Function:  $3 \times RBW$
8. Detector (unless specified otherwise): Peak and average above 1 GHz
9. Trace: Max hold for final measurement; a combination of two traces, clear-write and max hold, is recommended for maximizing the emission.

### Note: --

Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336  
Tel: 0086-23-88069965 FAX: 0086-23-88608777

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Test Result:

802.11b/g mode

| mode    | Channel | Test Results(dBuV/m) |             |        | Conclusion |
|---------|---------|----------------------|-------------|--------|------------|
| 802.11b | 1       | Peak                 | 2400.000MHz | 49.453 | Pass       |
|         |         | Average              | 2400.000MHz | 40.026 |            |
|         |         | Fig.29               |             |        |            |
|         | 11      | Peak                 | 2483.500MHz | 48.328 | Pass       |
|         |         | Average              | 2483.500MHz | 37.930 |            |
|         |         | Fig.30               |             |        |            |
| 802.11g | 1       | Peak                 | 2400.000MHz | 69.391 | Pass       |
|         |         | Average              | 2400.000MHz | 45.819 |            |
|         |         | Fig.31               |             |        |            |
|         | 11      | Peak                 | 2483.500MHz | 63.459 | Pass       |
|         |         | Average              | 2483.500MHz | 42.060 |            |
|         |         | Fig.32               |             |        |            |

802.11n mode

| mode               | Channel | Test Results(dBuV/m) |             |        | Conclusion |
|--------------------|---------|----------------------|-------------|--------|------------|
| 802.11n<br>(20MHz) | 1       | Peak                 | 2400.000MHz | 68.274 | Pass       |
|                    |         | Average              | 2400.000MHz | 45.274 |            |
|                    |         | Fig.33               |             |        |            |
|                    | 11      | Peak                 | 2483.500MHz | 64.440 | Pass       |
|                    |         | Average              | 2483.500MHz | 43.192 |            |
|                    |         | Fig.34               |             |        |            |
| 802.11n<br>(40MHz) | 3       | Peak                 | 2400.000MHz | 53.680 | Pass       |
|                    |         | Average              | 2400.000MHz | 34.256 |            |
|                    |         | Fig.35               |             |        |            |
|                    | 11      | Peak                 | 2486.294MHz | 68.042 | Pass       |
|                    |         | Average              | 2483.356MHz | 43.774 |            |
|                    |         | Fig.36               |             |        |            |

Conclusion: PASS

Test figure as below:

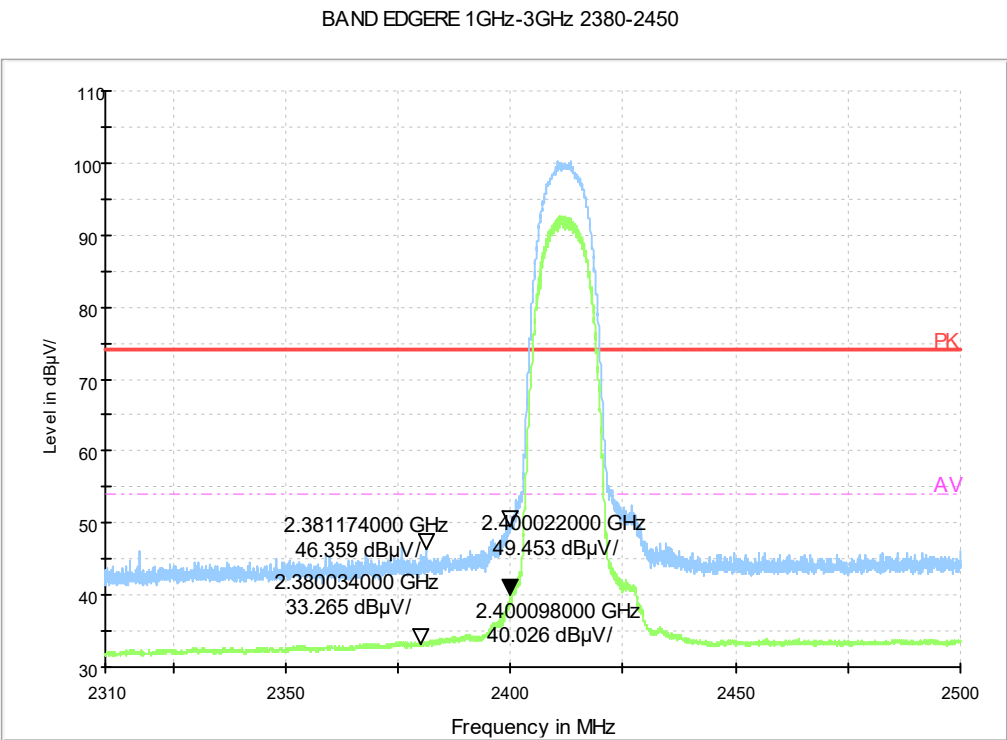


Fig.29 Frequency Band Edge: Ch1,11b

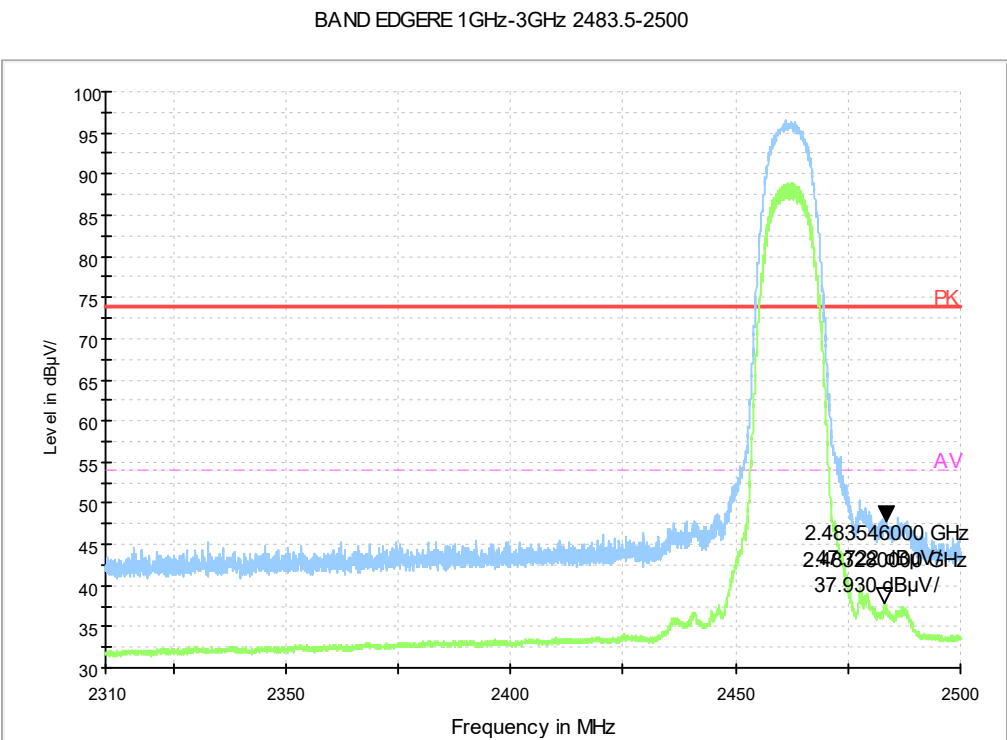


Fig.30 Frequency Band Edge: Ch11,11b

BAND EDGERE 1GHz-3GHz 2380-2450

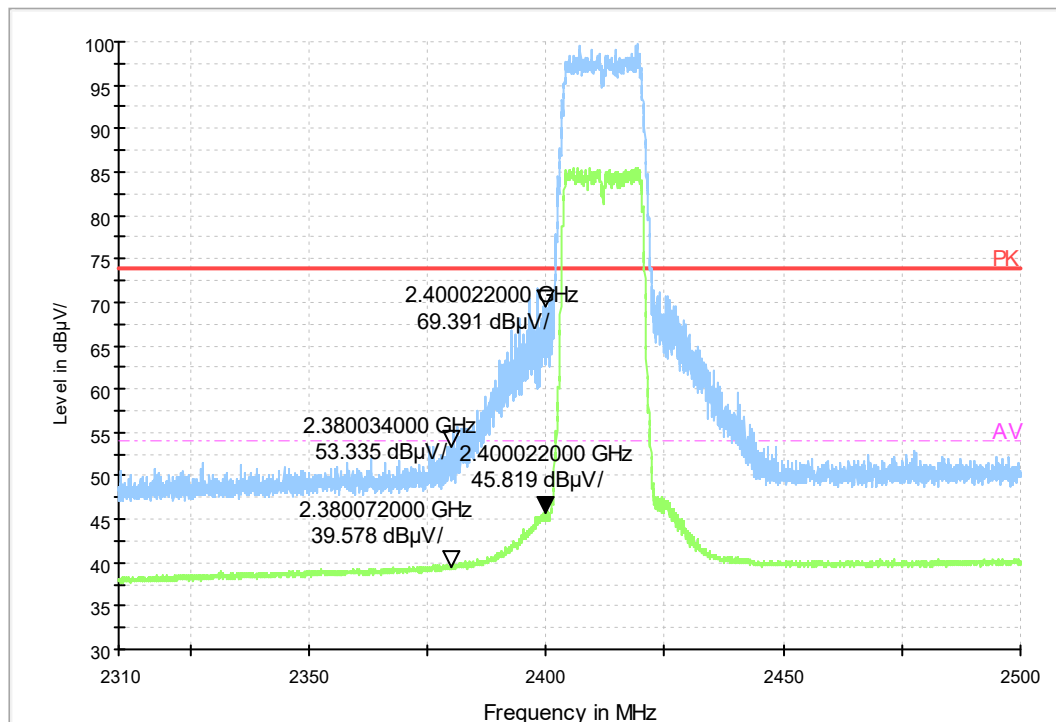


Fig.31 Frequency Band Edge: Ch1,11g

BAND EDGERE 1GHz-3GHz 2483.5-2500

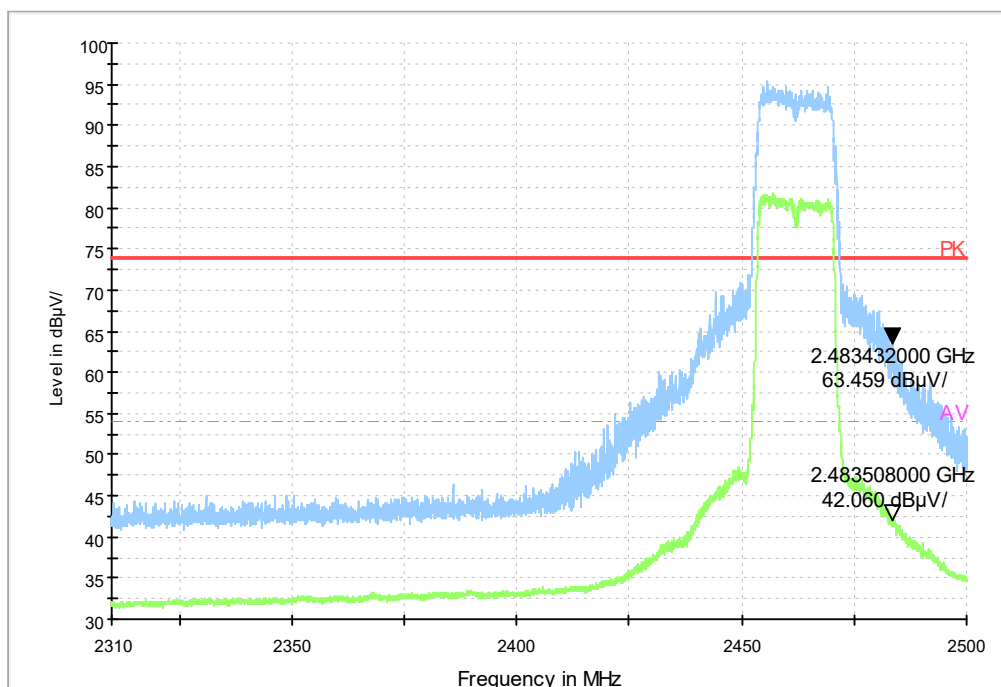


Fig.32 Frequency Band Edge: Ch11,11g

BAND EDGERE 1GHz-3GHz 2380-2450

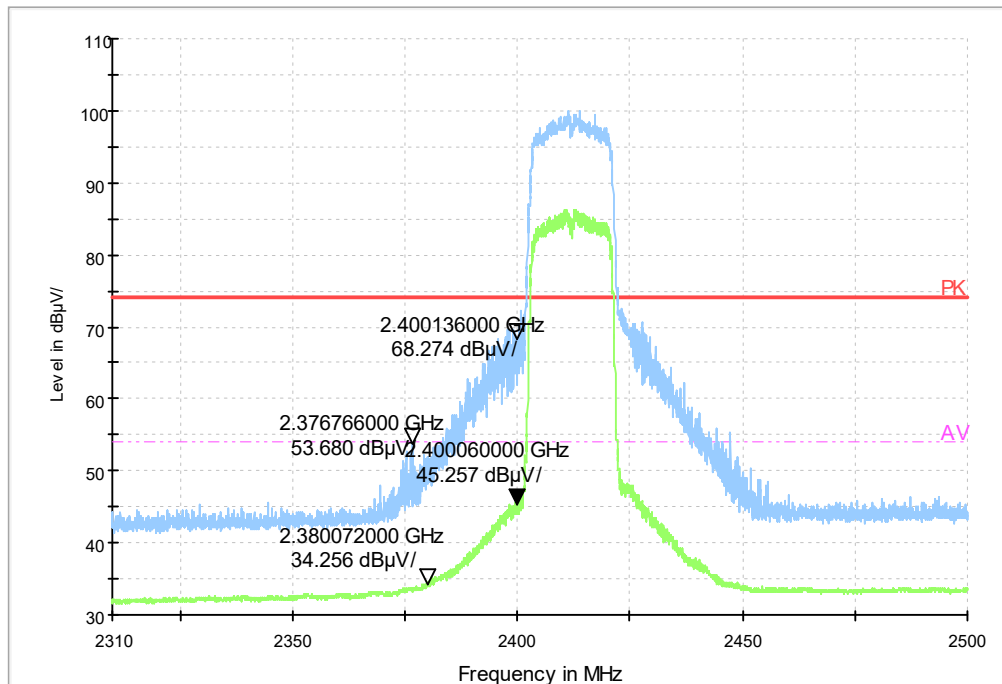


Fig.33 Frequency Band Edge: Ch1,11n(20M)

BAND EDGERE 1GHz-3GHz 2483.5-2500

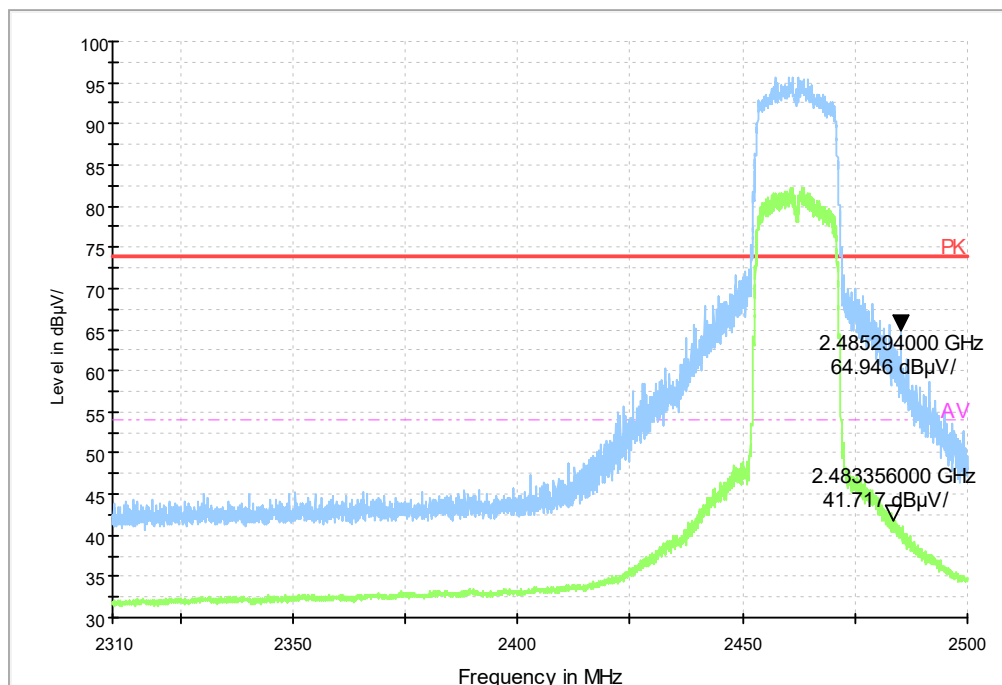


Fig.34 Frequency Band Edge: Ch11,11n(20M)

BAND EDGERE 1GHz-3GHz 2380-2450

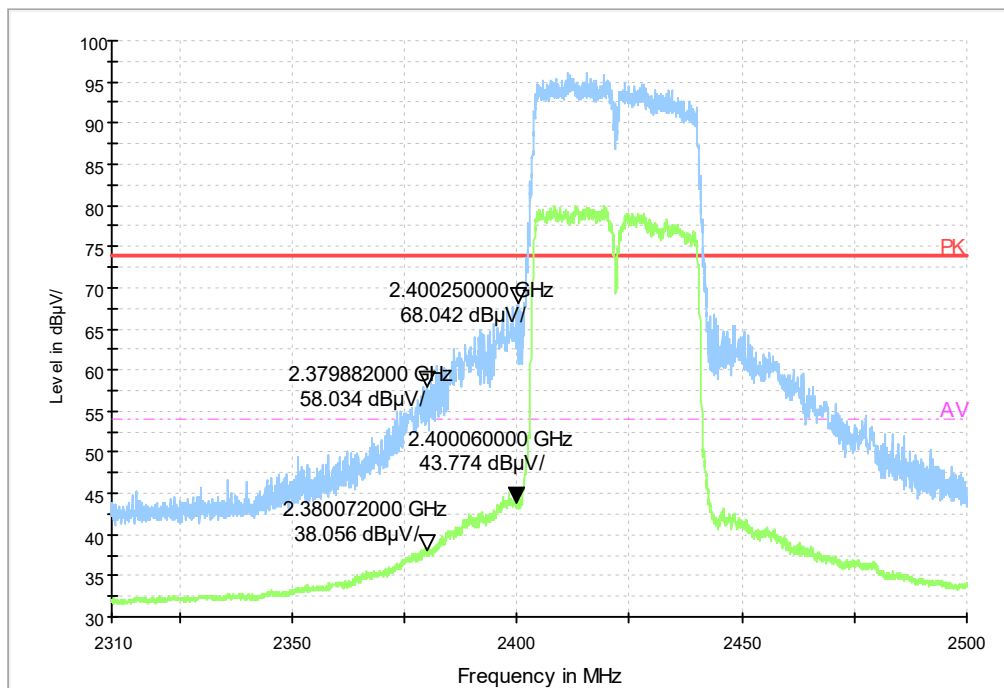


Fig.35 Frequency Band Edge: Ch3,11n(40M)

BAND EDGERE 1GHz-3GHz 2483.5-2500

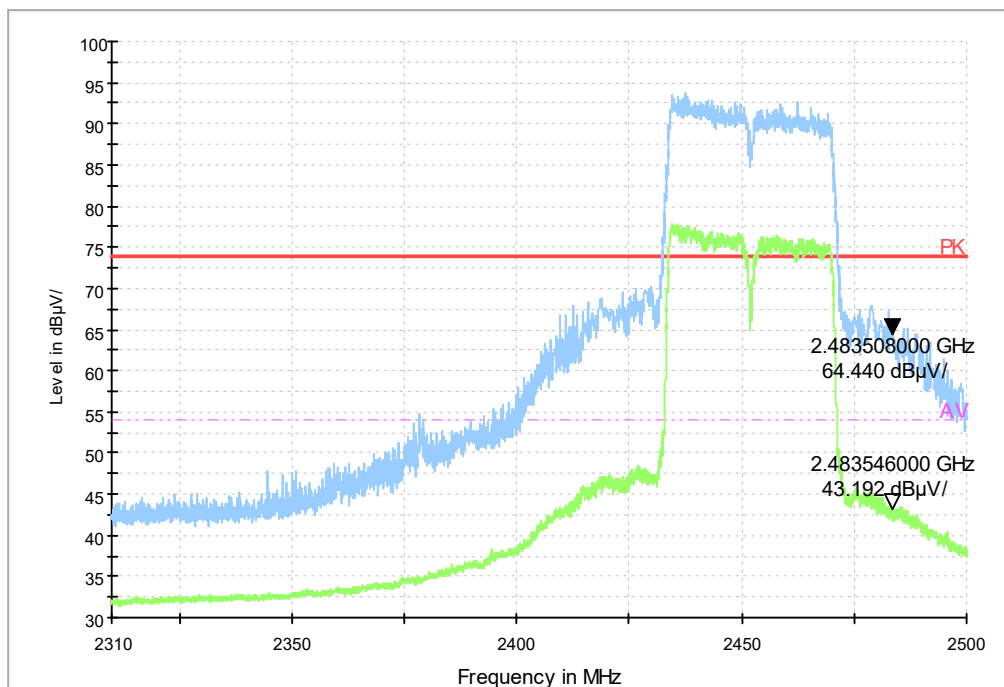


Fig.36 Frequency Band Edge: Ch11,11n(40M)

### 5.5 Transmitter Spurious Emission-Conducted

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

#### 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.
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.

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Test Result:

802.11b/g mode

| Mode    | Channel | Frequency Range | Test Results | Conclusion |
|---------|---------|-----------------|--------------|------------|
| 802.11b | 1       | 2.412GHz        | Fig.37       | Pass       |
|         |         | 30MHz~26GHz     | Fig.38       | Pass       |
|         | 6       | 2.437GHz        | Fig.39       | Pass       |
|         |         | 30MHz~26GHz     | Fig.40       | Pass       |
|         | 11      | 2.462GHz        | Fig.41       | Pass       |
|         |         | 30MHz~26GHz     | Fig.42       | Pass       |
| 802.11g | 1       | 2.412GHz        | Fig.43       | Pass       |
|         |         | 30MHz~26GHz     | Fig.44       | Pass       |
|         | 6       | 2.437GHz        | Fig.45       | Pass       |
|         |         | 30MHz~26GHz     | Fig.46       | Pass       |
|         | 11      | 2.462GHz        | Fig.47       | Pass       |
|         |         | 30MHz~26GHz     | Fig.48       | Pass       |

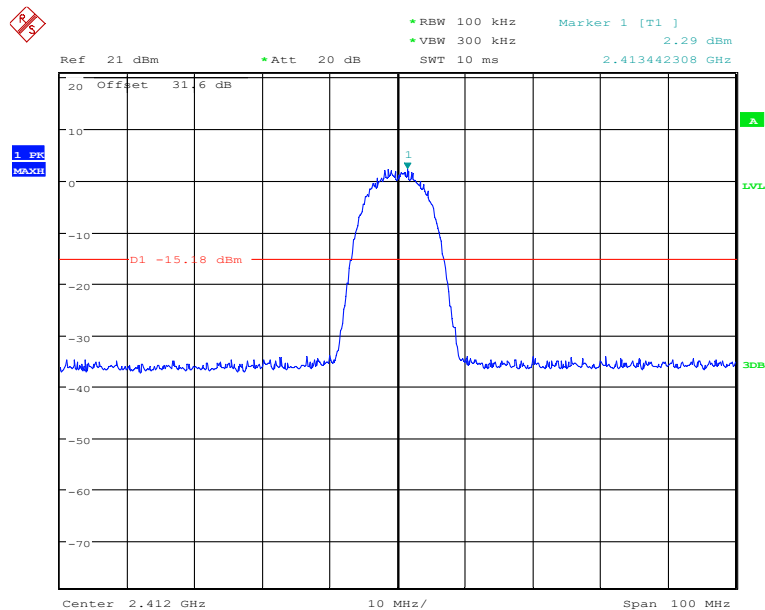
802.11n mode

| Mode               | Channel | Frequency Range | Test Results | Conclusion |
|--------------------|---------|-----------------|--------------|------------|
| 802.11n<br>(20MHz) | 1       | 2.412GHz        | Fig.49       | Pass       |
|                    |         | 30MHz~26GHz     | Fig.50       | Pass       |
|                    | 6       | 2.437GHz        | Fig.51       | Pass       |
|                    |         | 30MHz~26GHz     | Fig.52       | Pass       |
|                    | 11      | 2.462GHz        | Fig.53       | Pass       |
|                    |         | 30MHz~26GHz     | Fig.54       | Pass       |
| 802.11n<br>(40MHz) | 1       | 2.422GHz        | Fig.55       | Pass       |
|                    |         | 30MHz~26GHz     | Fig.56       | Pass       |
|                    | 6       | 2.442GHz        | Fig.57       | Pass       |
|                    |         | 30MHz~26GHz     | Fig.58       | Pass       |
|                    | 11      | 2.462GHz        | Fig.59       | Pass       |
|                    |         | 30MHz~26GHz     | Fig.60       | Pass       |

Conclusion: PASS

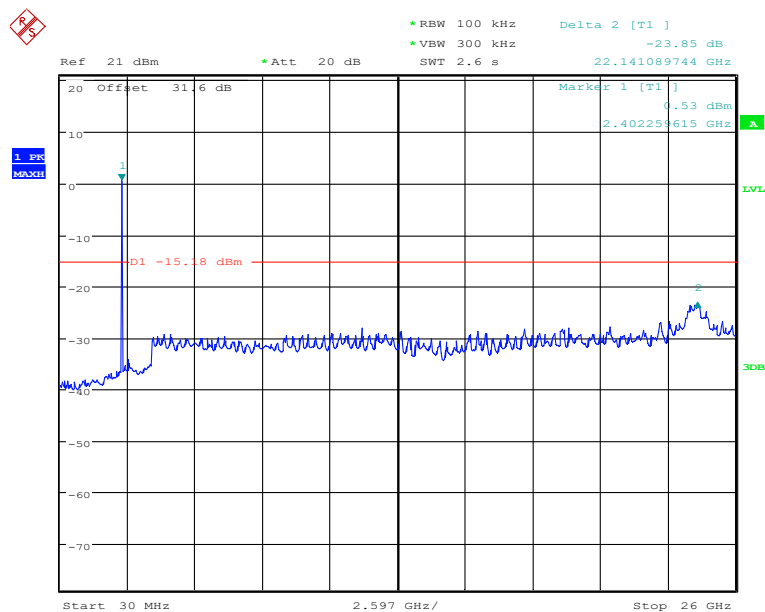
Address: No. 8,Yuma Road, Chayuan New City, Nan'an District, Chongqing, P. R. China,401336  
Tel: 0086-23-88069965 FAX: 0086-23-88608777

Test figure as below:



Date: 7.DEC.2019 09:10:52

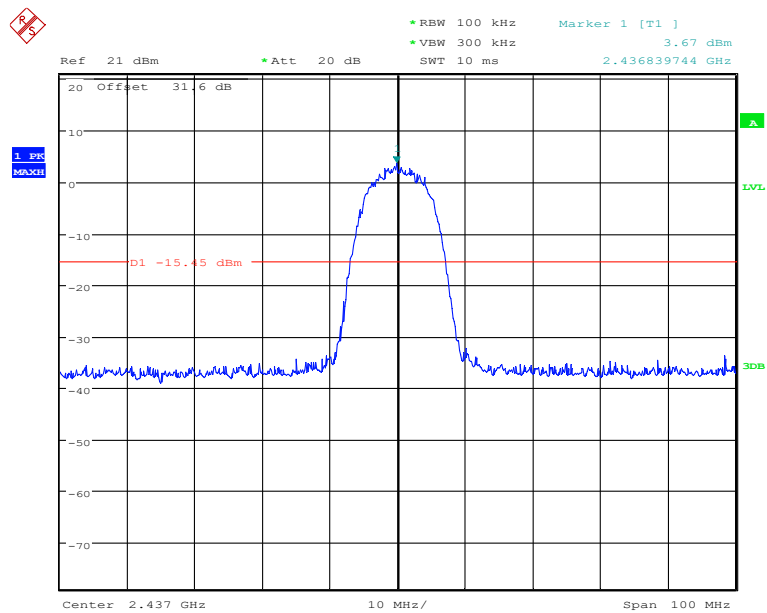
Fig.37 Conducted spurious emission: Ch1,11b,2412MHz



Date: 7.DEC.2019 09:12:00

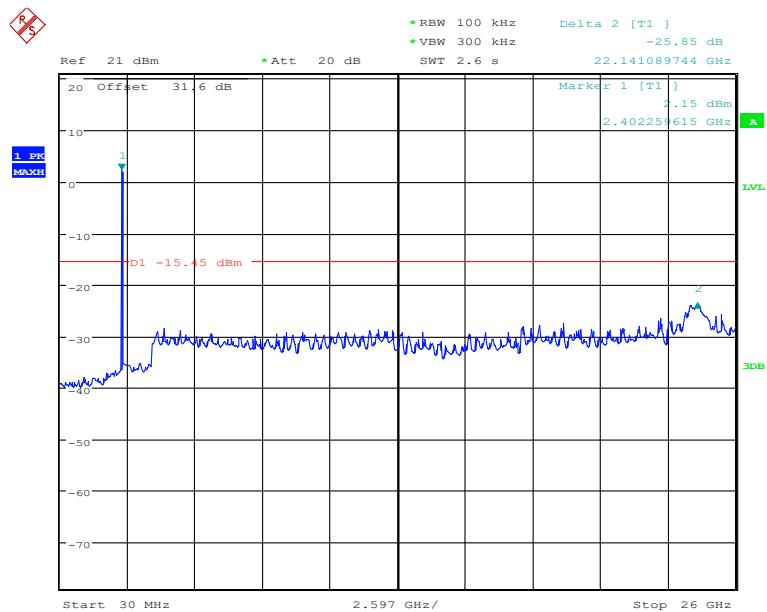
Fig.38 Conducted spurious emission: Ch1,11b,30MHz~26GHz

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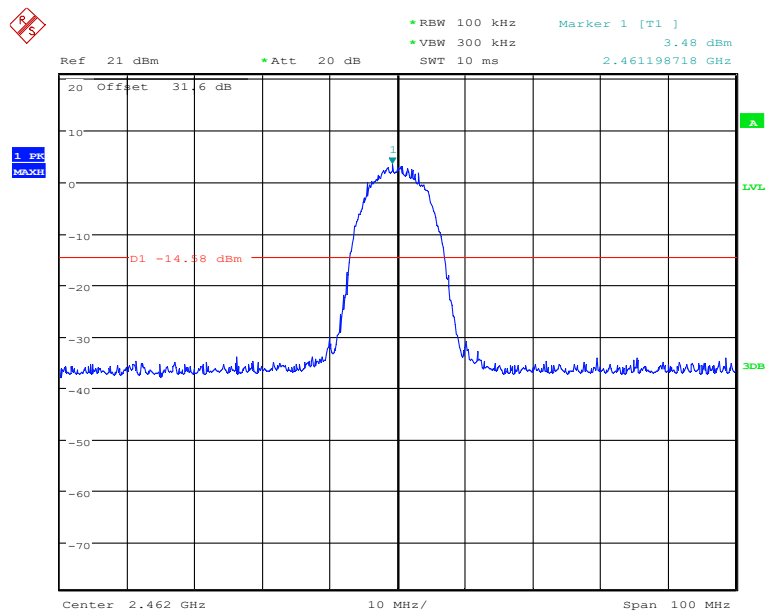
Date: 7.DEC.2019 09:14:18

Fig.39 Conducted spurious emission: Ch6,11b,2437MHz



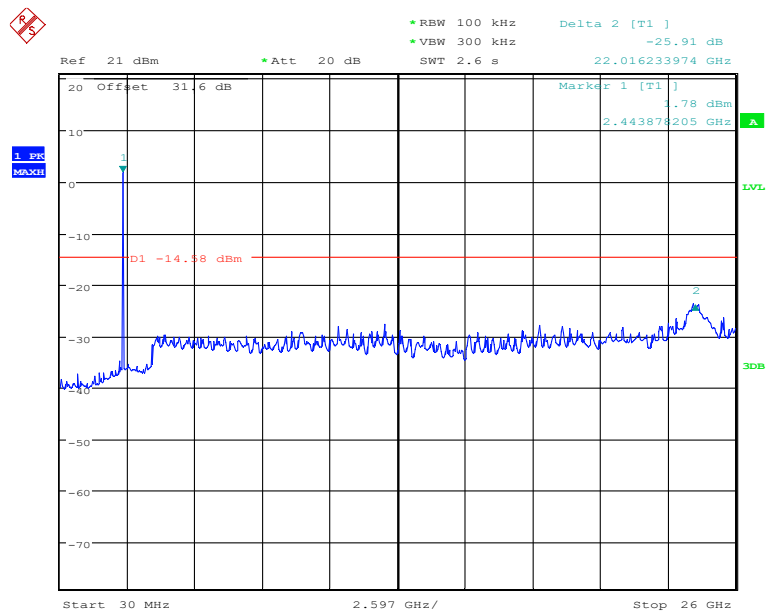
Date: 7.DEC.2019 09:13:39

Fig.40 Conducted spurious emission: Ch6,11b,30MHz~26GHz



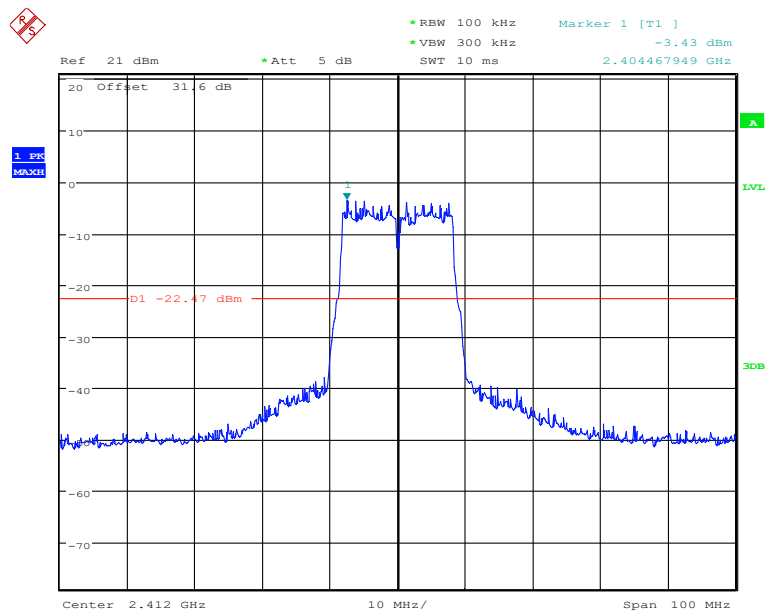
Date: 7.DEC.2019 09:15:34

Fig.41 Conducted spurious emission: Ch11,11b,2462MHz



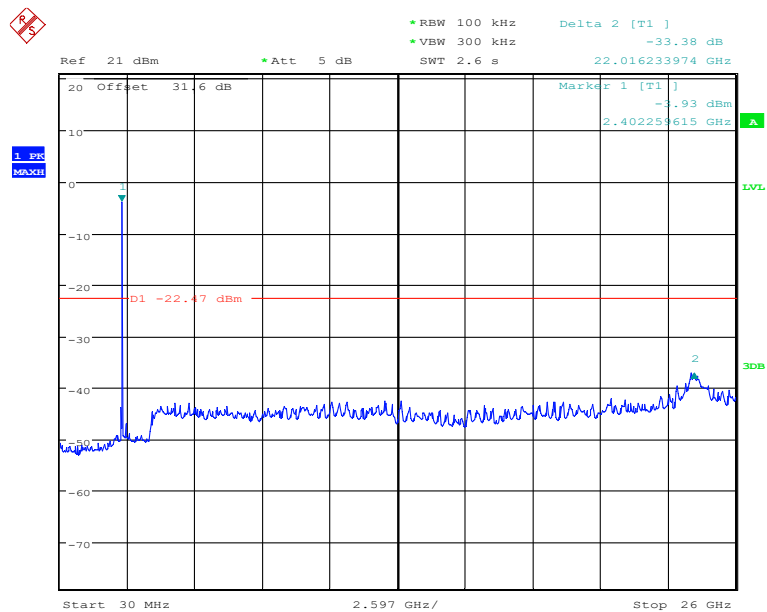
Date: 7.DEC.2019 09:16:12

Fig.42 Conducted spurious emission: Ch11,11b,30MHz~26GHz



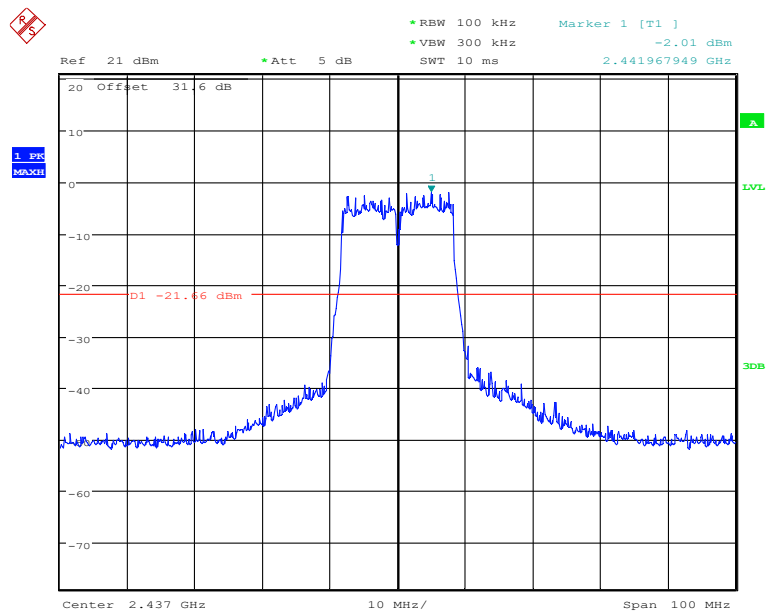
Date: 7.DEC.2019 09:21:05

Fig.43 Conducted spurious emission: Ch1,11g,2412MHz



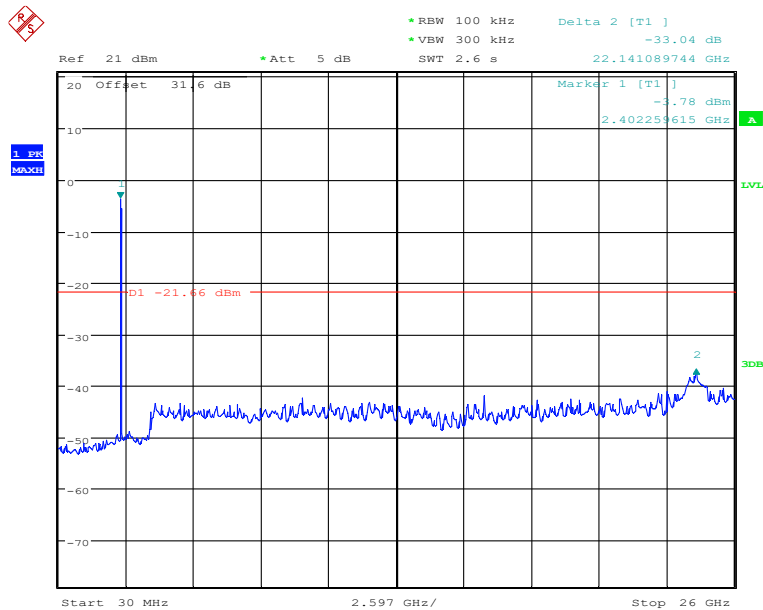
Date: 7.DEC.2019 09:20:31

Fig.44 Conducted spurious emission: Ch1,11g,30MHz~26GHz



Date: 7.DEC.2019 09:21:47

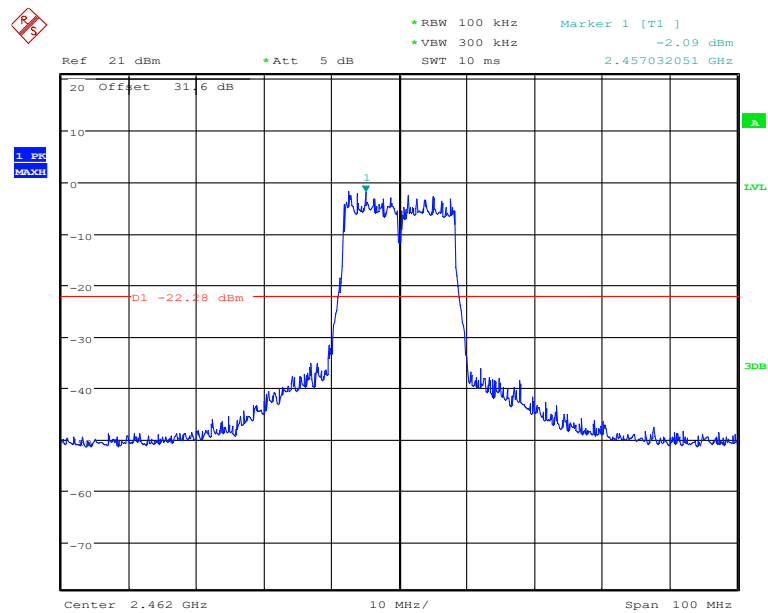
Fig.45 Conducted spurious emission: Ch6,11g,2437MHz



Date: 7.DEC.2019 09:22:23

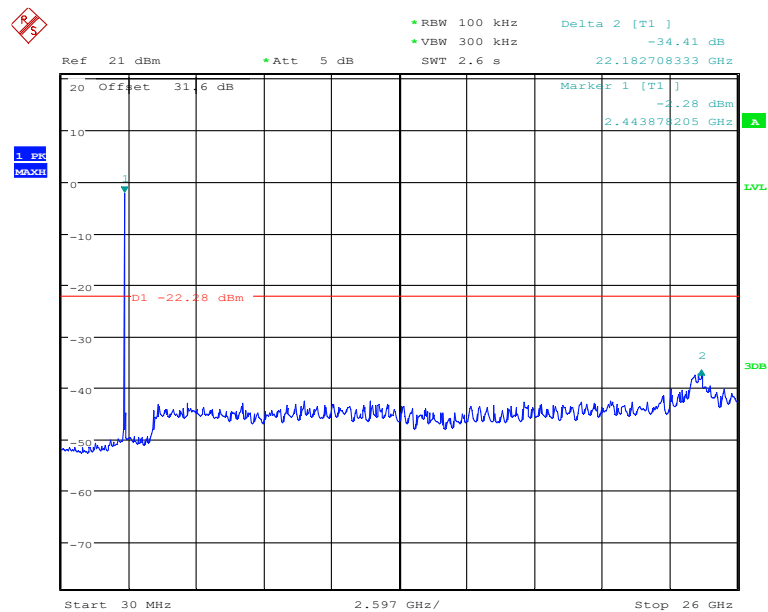
Fig.46 Conducted spurious emission: Ch6,11g,30MHz~26GHz

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Date: 7.DEC.2019 09:23:45

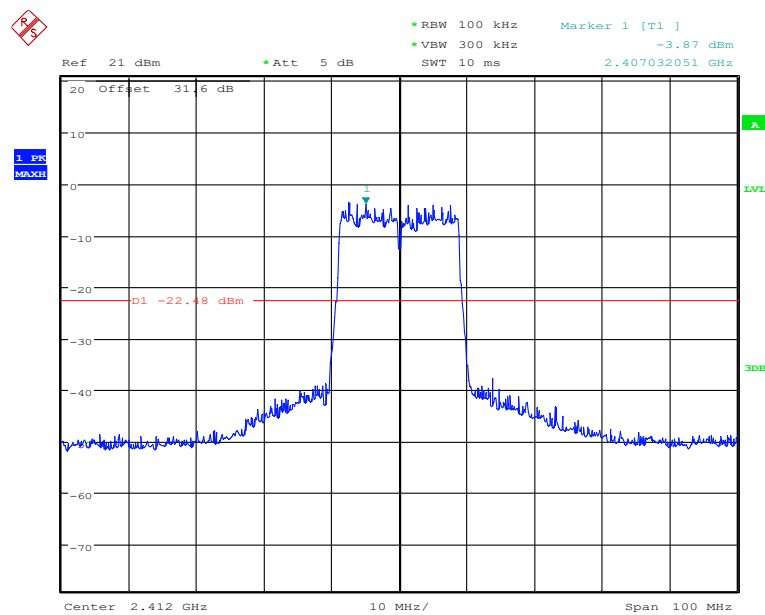
Fig.47 Conducted spurious emission: Ch11,11g,2462MHz



Date: 7.DEC.2019 09:23:20

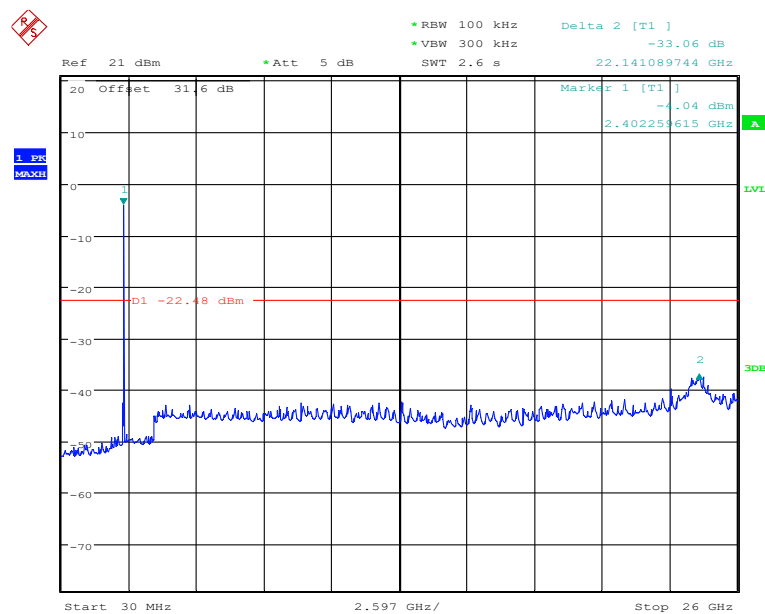
Fig.48 Conducted spurious emission: Ch11,11g,30MHz~26GHz

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Date: 7.DEC.2019 09:24:57

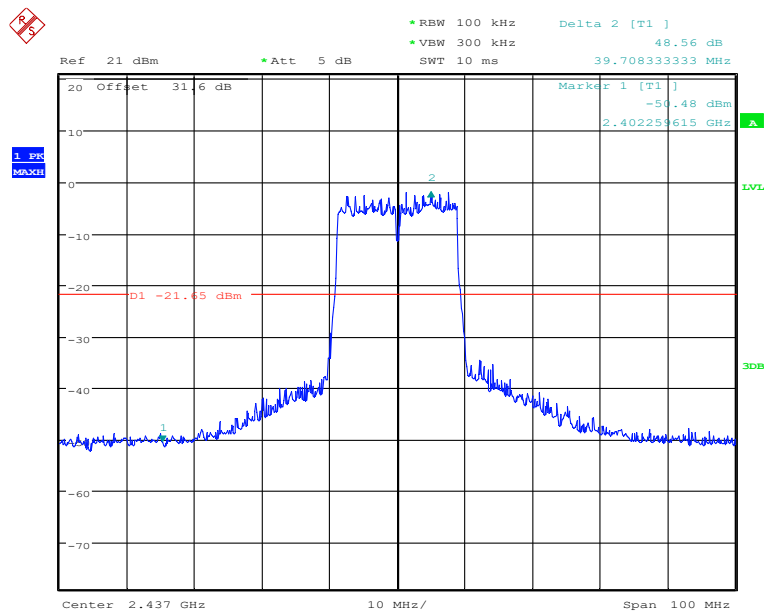
Fig.49 Conducted spurious emission: Ch1,11n,2412MHz



Date: 7.DEC.2019 09:25:30

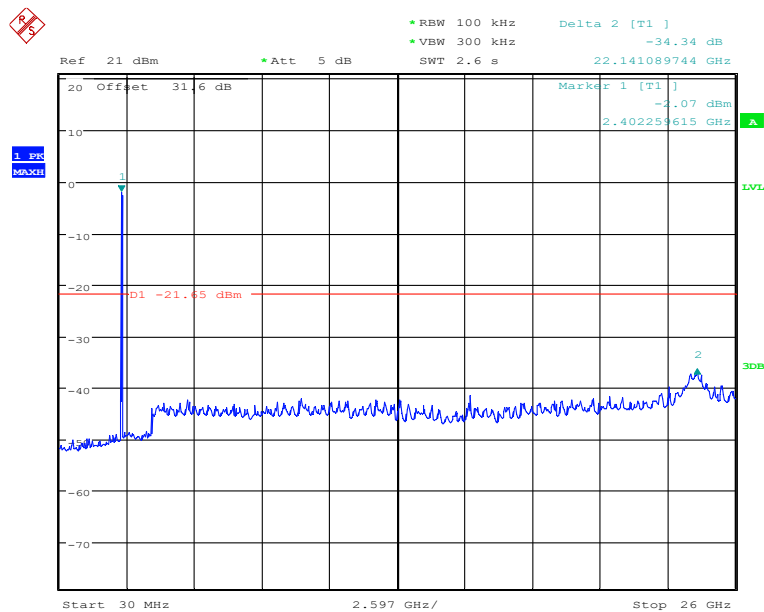
Fig.50 Conducted spurious emission: Ch1,11n,30MHz~26GHz

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Date: 7.DEC.2019 09:26:57

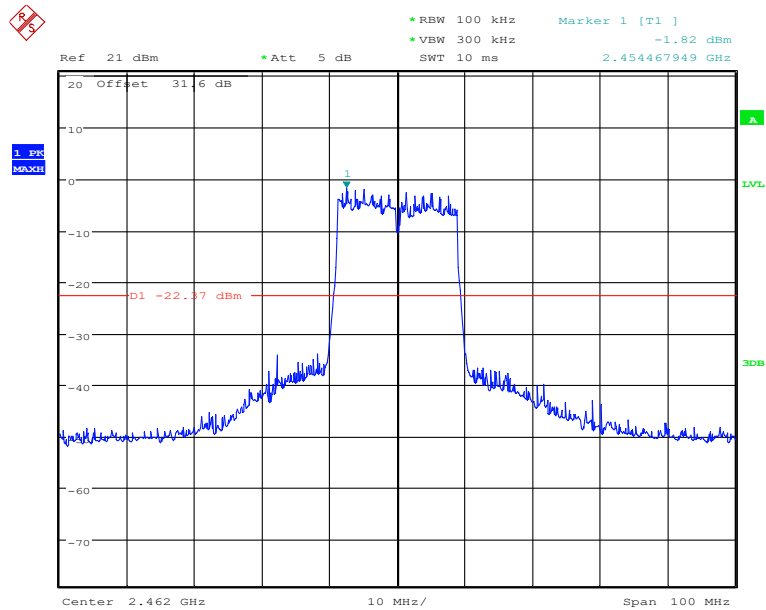
Fig.51 Conducted spurious emission: Ch6,11n,2437MHz



Date: 7.DEC.2019 09:26:21

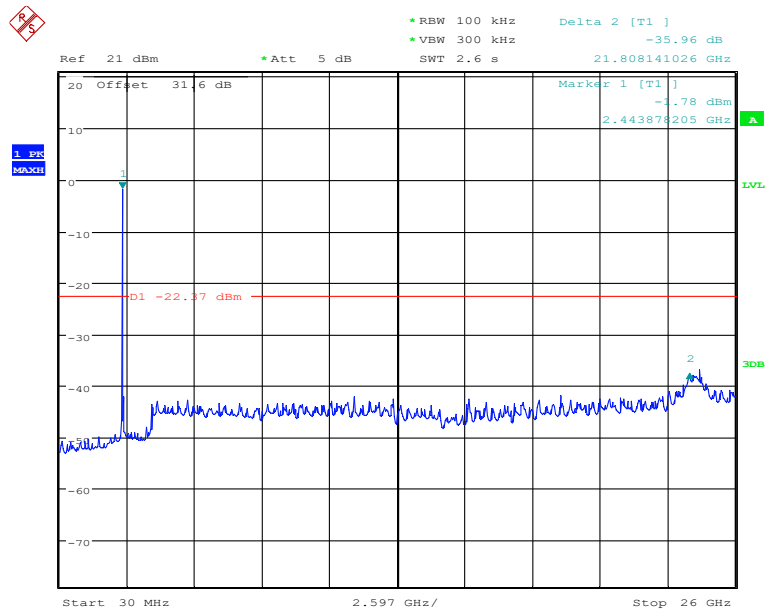
Fig.52 Conducted spurious emission: Ch6,11n,30MHz~26GHz

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Date: 7.DEC.2019 09:27:38

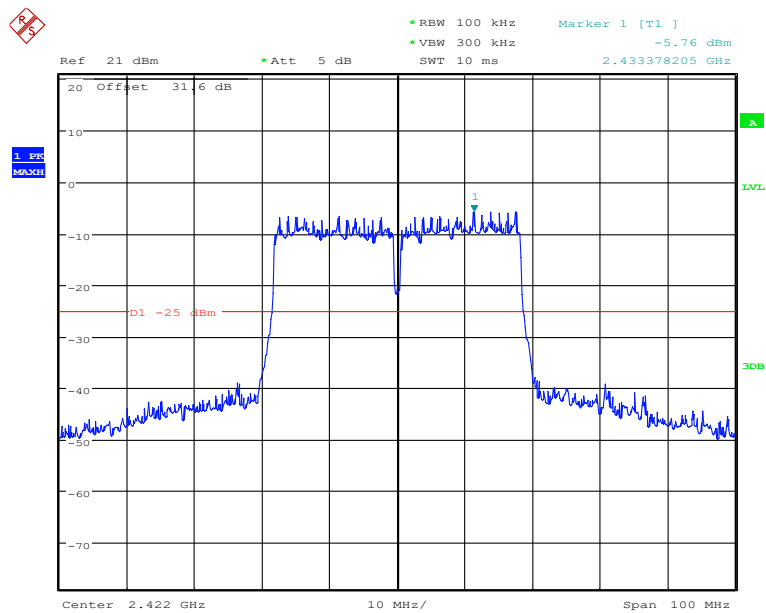
Fig.53 Conducted spurious emission: Ch11,11n,2462MHz



Date: 7.DEC.2019 09:28:07

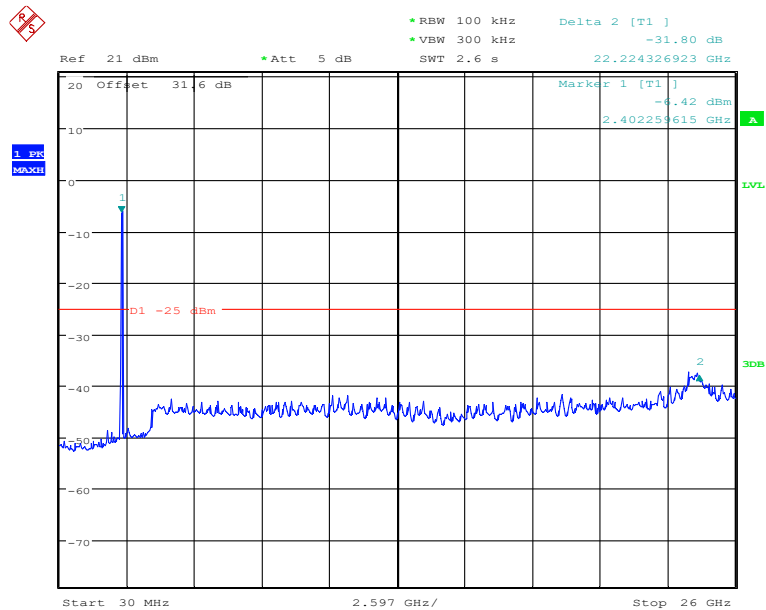
Fig.54 Conducted spurious emission: Ch11,11n,30MHz~26GHz

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Date: 7.DEC.2019 09:30:12

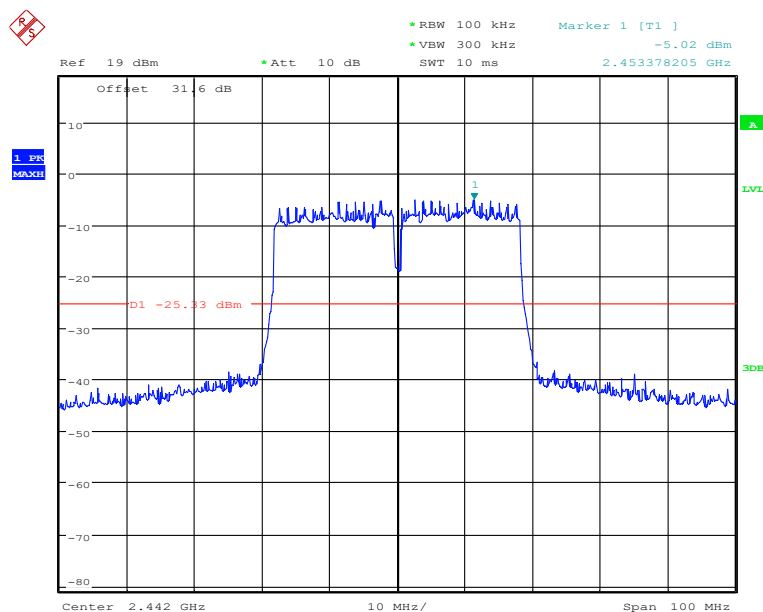
Fig.55 Conducted spurious emission: Ch1,11n(40M),2422MHz



Date: 7.DEC.2019 09:29:48

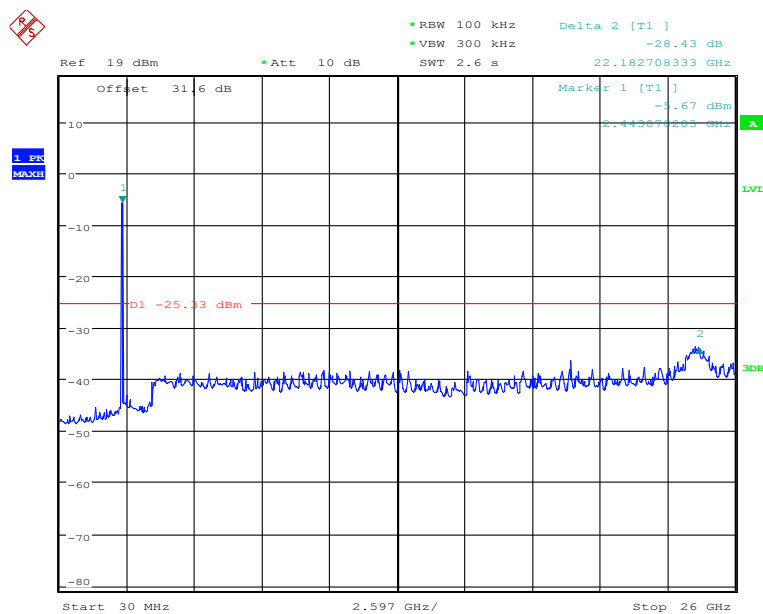
Fig.56 Conducted spurious emission: Ch1,11n(40M),30MHz~26GHz

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Date: 7.DEC.2019 09:32:51

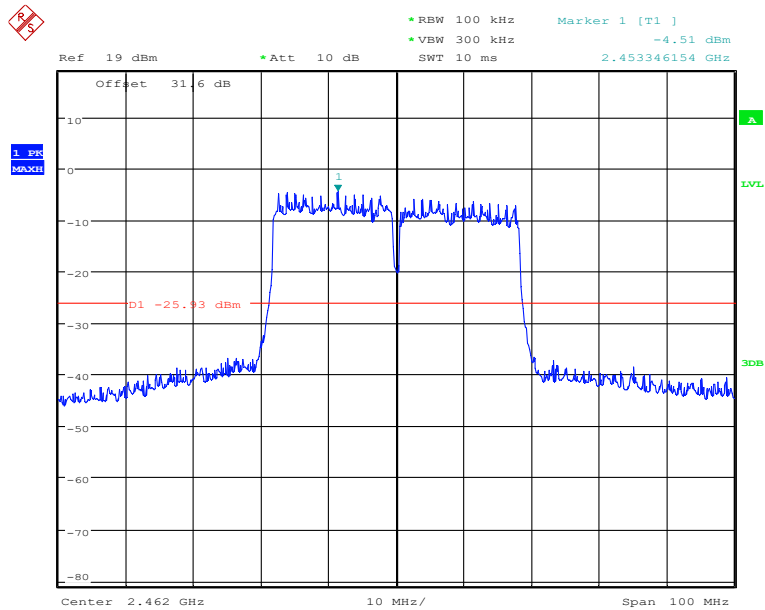
Fig.57 Conducted spurious emission: Ch6,11n(40M),2442MHz



Date: 7.DEC.2019 09:33:26

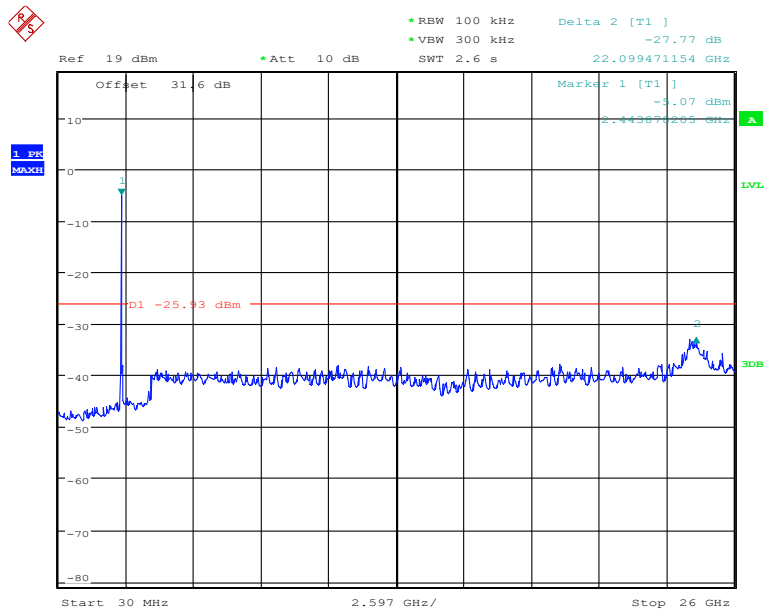
Fig.58 Conducted spurious emission: Ch6,11n(40M),30MHz~26GHz

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Date: 7.DEC.2019 09:34:22

Fig.59 Conducted spurious emission: Ch11,11n(40M),2462MHz



Date: 7.DEC.2019 09:34:46

Fig.60 Conducted spurious emission: Ch11,11n(40M),30MHz~26GHz

### 5.6 Transmitter Spurious Emission-Radiated

|                           |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | FCC 47 CFR Part 15.247, 15.205, 15.209                                              |
| <b>DUT Serial Number:</b> | --                                                                                  |
| <b>Test conditions:</b>   | Ambient Temperature:15℃-35℃<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | --                                                                                  |

#### 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 |
|-------------------------------------------|-------------|
| $30\text{MHz} \leq f \leq 2\text{GHz}$    | $\pm 1.13$  |
| $2\text{GHz} \leq f \leq 3.6\text{GHz}$   | $\pm 1.16$  |
| $3.6\text{GHz} \leq f \leq 8\text{GHz}$   | $\pm 2.45$  |
| $8\text{GHz} \leq f \leq 12.75\text{GHz}$ | $\pm 2.99$  |

#### Limit in restricted band:

| 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 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.

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

| Channel | Frequency Range | Test Results | Conclusion |
|---------|-----------------|--------------|------------|
| Ch1     | 30MH-1GHz       | Fig.61       | Pass       |
|         | 1GHz-3GHz       | Fig.62       | Pass       |
|         | 3GHz-18GHz      | Fig.63       | Pass       |

| Channel | Frequency Range | Test Results | Conclusion |
|---------|-----------------|--------------|------------|
| Ch6     | 30MH-1GHz       | Fig.64       | Pass       |
|         | 1GHz-3GHz       | Fig.65       | Pass       |

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|  |            |        |      |
|--|------------|--------|------|
|  | 3GHz-18GHz | Fig.66 | Pass |
|--|------------|--------|------|

| Channel      | Frequency Range | Test Results | Conclusion |
|--------------|-----------------|--------------|------------|
| Ch11         | 30MH-1GHz       | Fig.67       | Pass       |
|              | 1GHz-3GHz       | Fig.68       | Pass       |
|              | 3GHz-18GHz      | Fig.69       | Pass       |
| All channels | 18GHz-26GHz     | Fig.70       | Pass       |

Note: all the test data shown was peak detected.

**Conclusion: PASS**

Test graphs as below:

RE 30MHz-1GHz

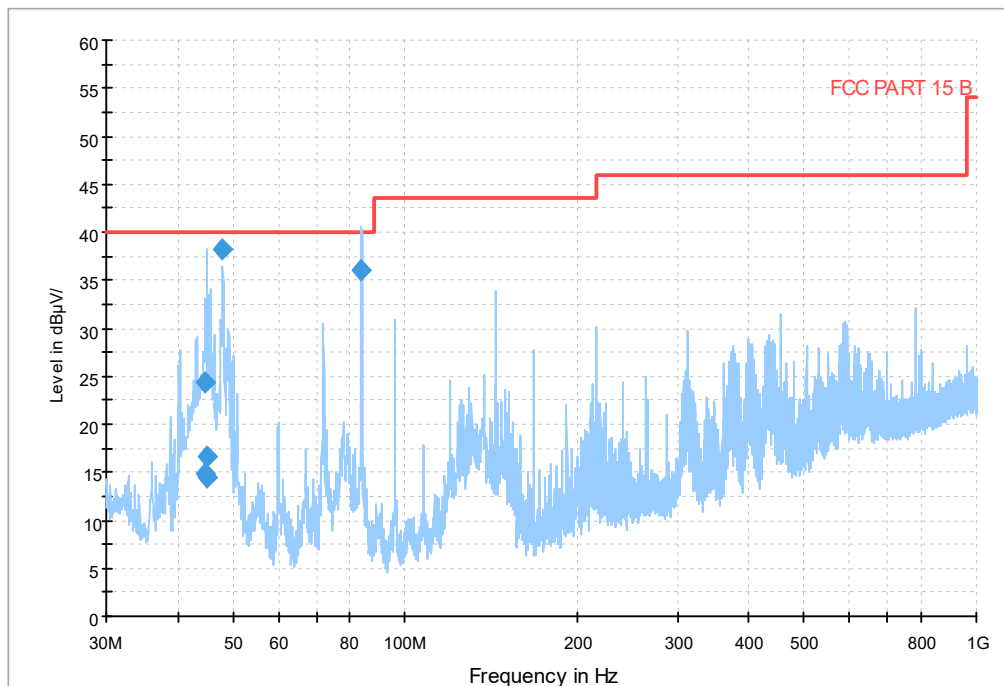


Fig.61 Radiated emission: Ch1, 30MHz-1GHz

RE 1GHz-3GHz

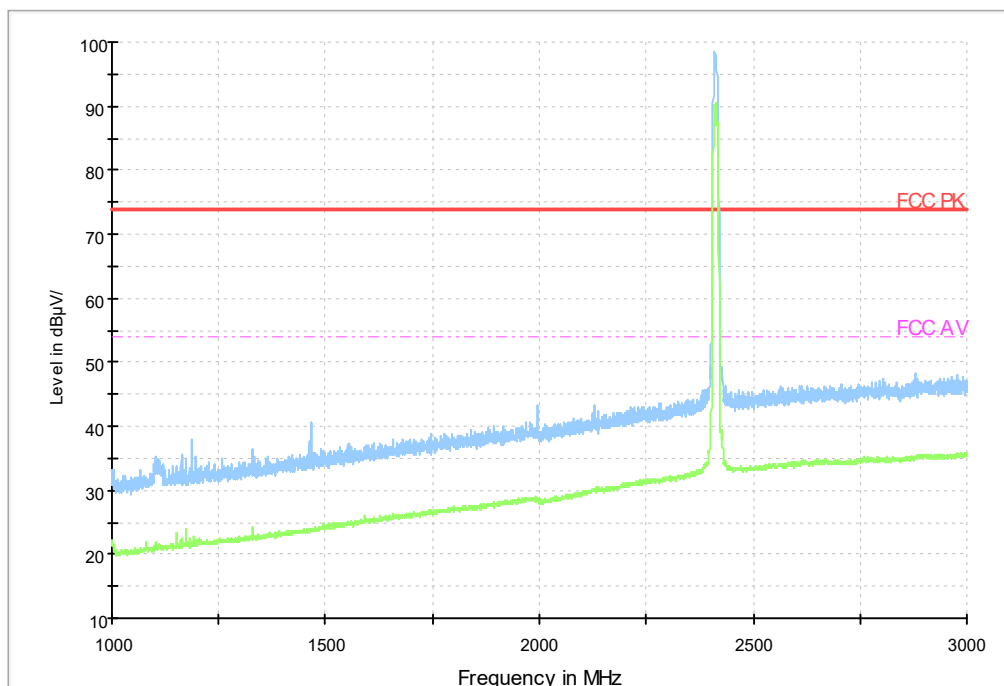


Fig.62 Radiated emission: Ch1, 1GHz-3GHz

RE 3GHz-18GHz

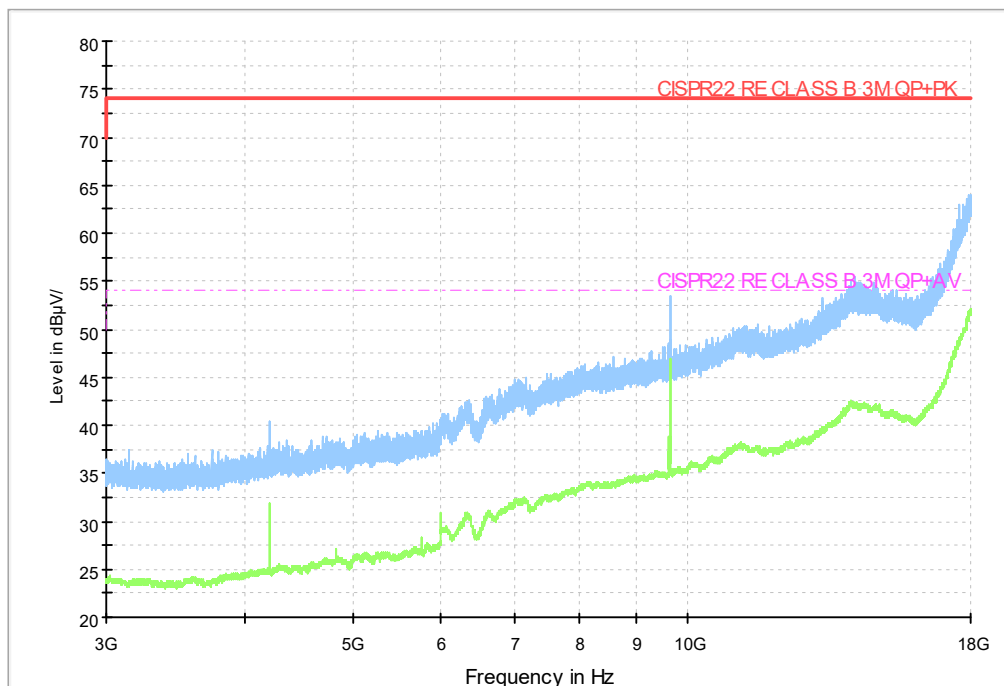


Fig.63 Radiated emission: Ch1, 3GHz-18GHz

RE 30MHz-1GHz

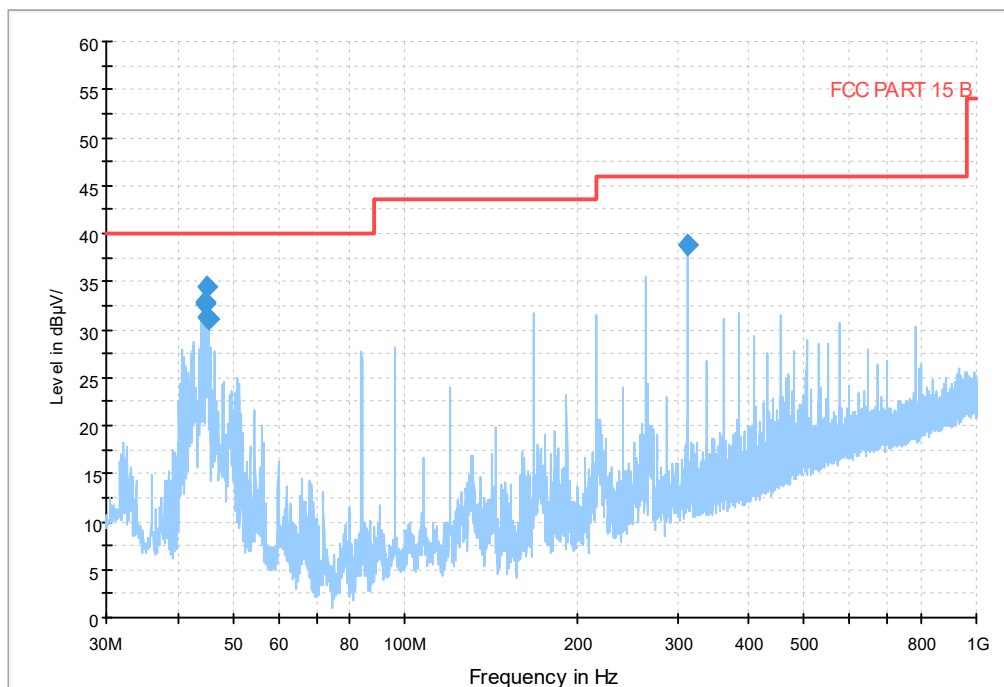


Fig.64 Radiated emission:Ch6, 30MHz-1GHz

RE 1GHz-3GHz

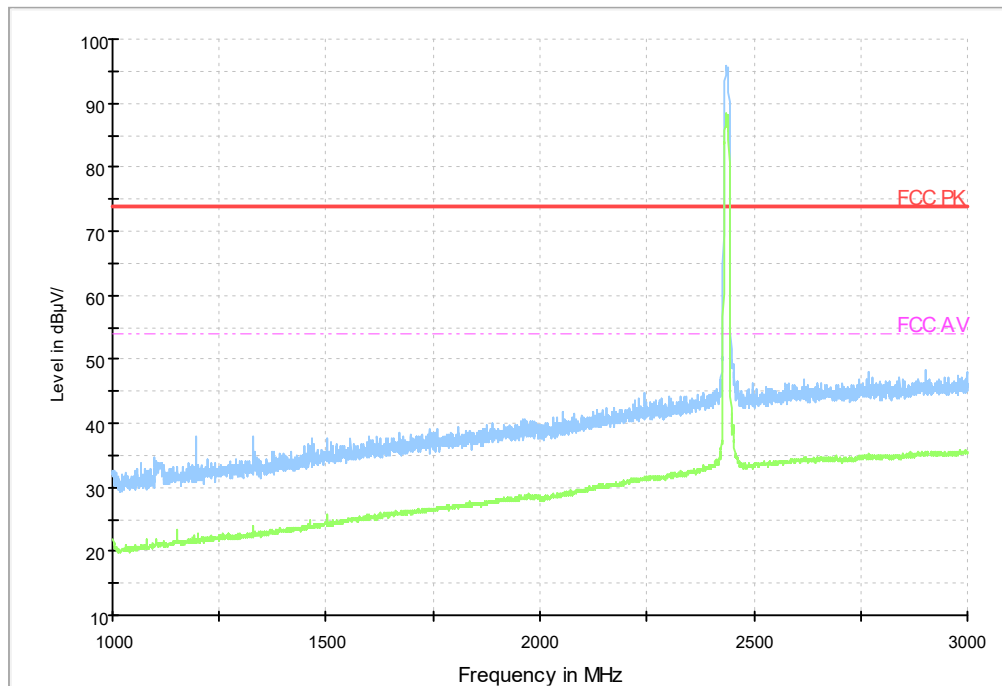


Fig.65 Radiated emission: Ch6, 1GHz-3GHz

RE 3GHz-18GHz

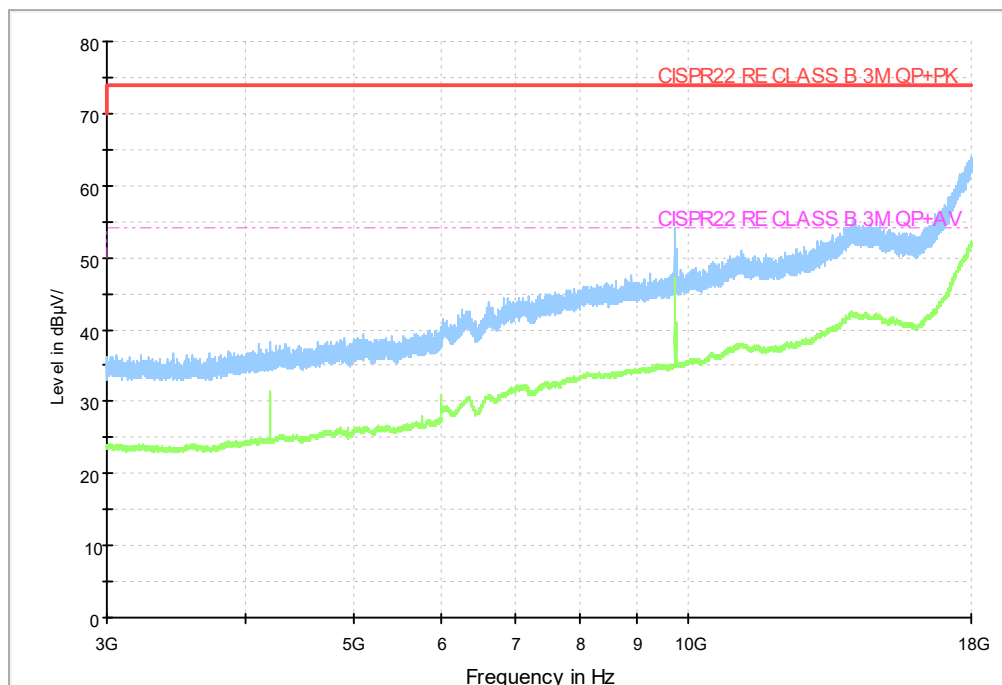


Fig.66 Radiated emission: Ch6, 3GHz-18GHz

RE 30MHz-1GHz

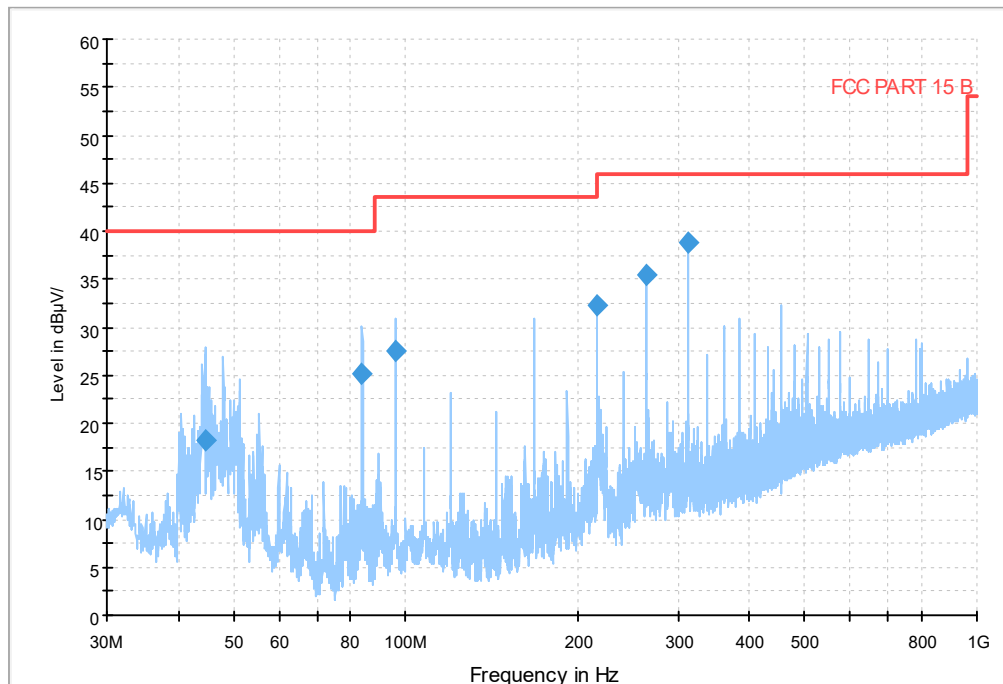


Fig.67 Radiated emission: Ch11, 30MHz-1GHz

RE 1GHz-3GHz

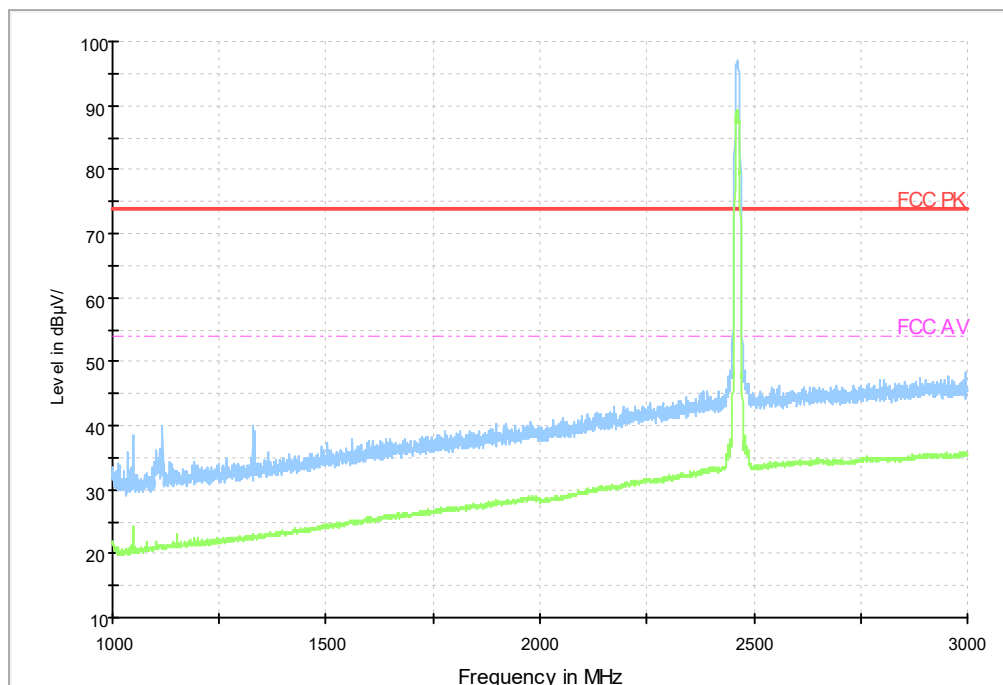


Fig.68 Radiated emission: Ch11, 1GHz-3GHz

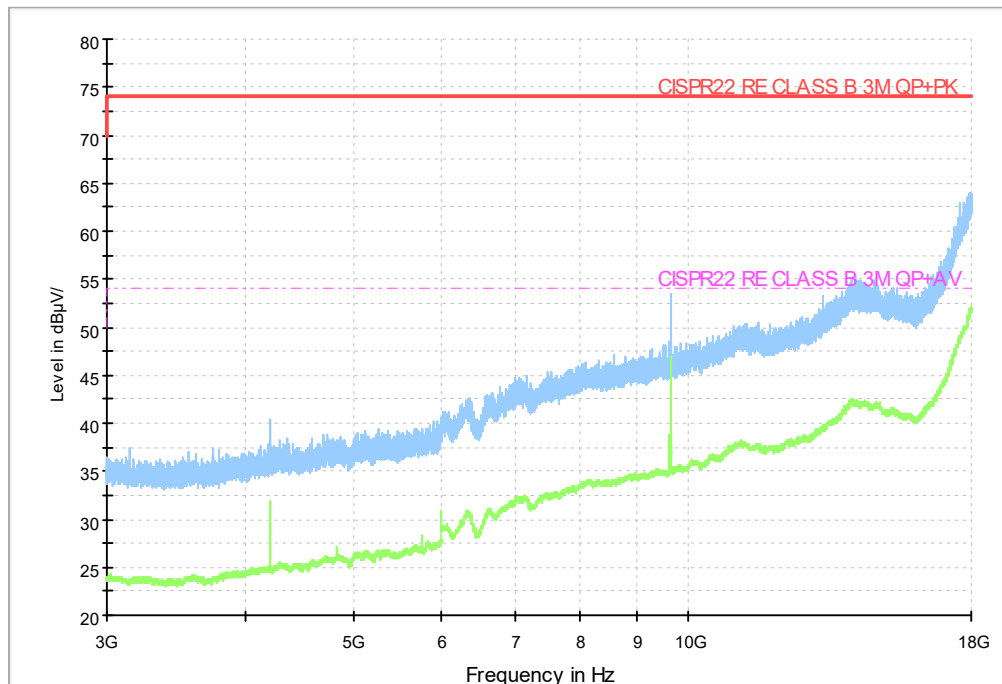


Fig.69 Radiated emission: Ch11, 3GHz-18GHz

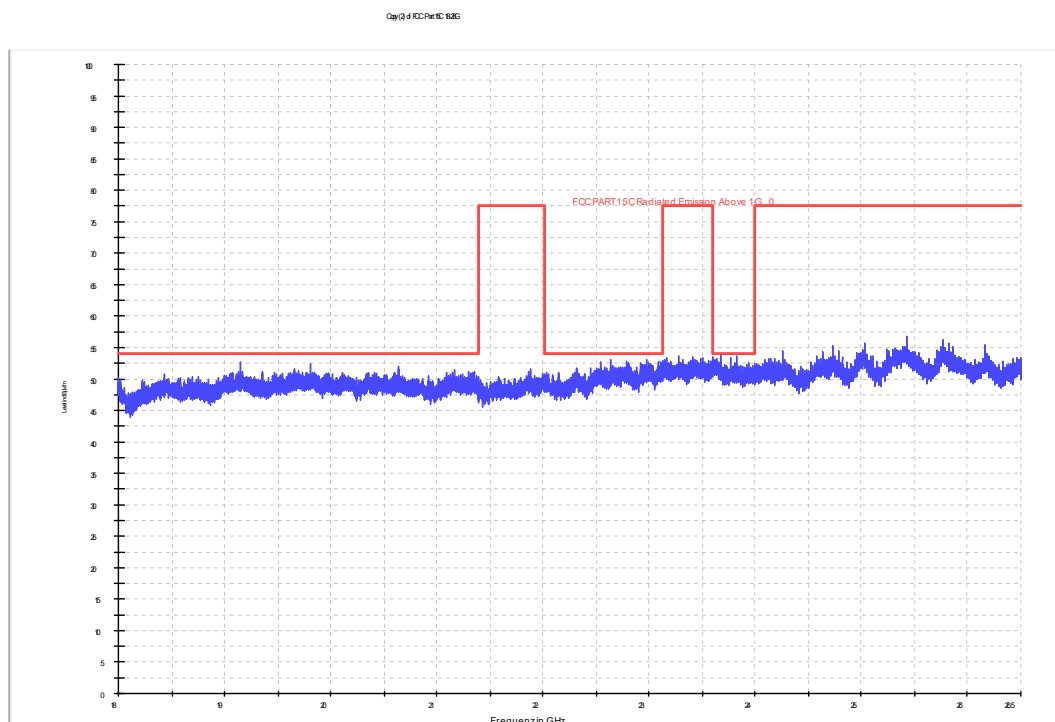


Fig.70 Radiated emission: 18 GHz - 26 GHz

### Test photo

See the Pic1- Pic 2 in document" PT200LSV \_Wifi\_BT\_Test Setup Photos".

### 5.7 Power line Conducted Emissions

|                           |                                                                                       |
|---------------------------|---------------------------------------------------------------------------------------|
| <b>Specifications:</b>    | ANSI C63.10 voltage mains test                                                        |
| <b>DUT Serial Number:</b> | 353081090308282                                                                       |
| <b>Test conditions:</b>   | Ambient Temperature:15°C-35°C<br>Relative Humidity:30%-60%<br>Air pressure: 86-106kPa |
| <b>Test Results:</b>      | --                                                                                    |

#### 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        |

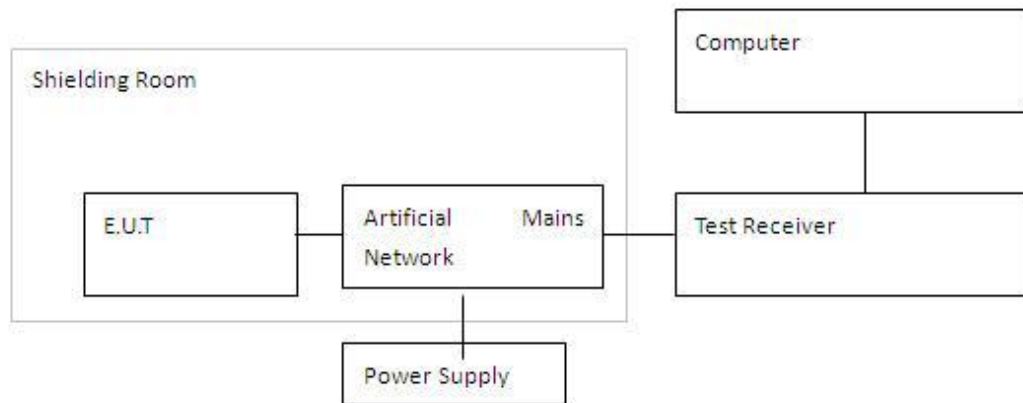
#### Limits of the conducted disturbance at the AC mains ports:

| 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).



### 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 Public notice FCC Public Notice KDB 558074, March 2000, and ANSI C63.10-2013.

### Test Result:

#### Line L&N

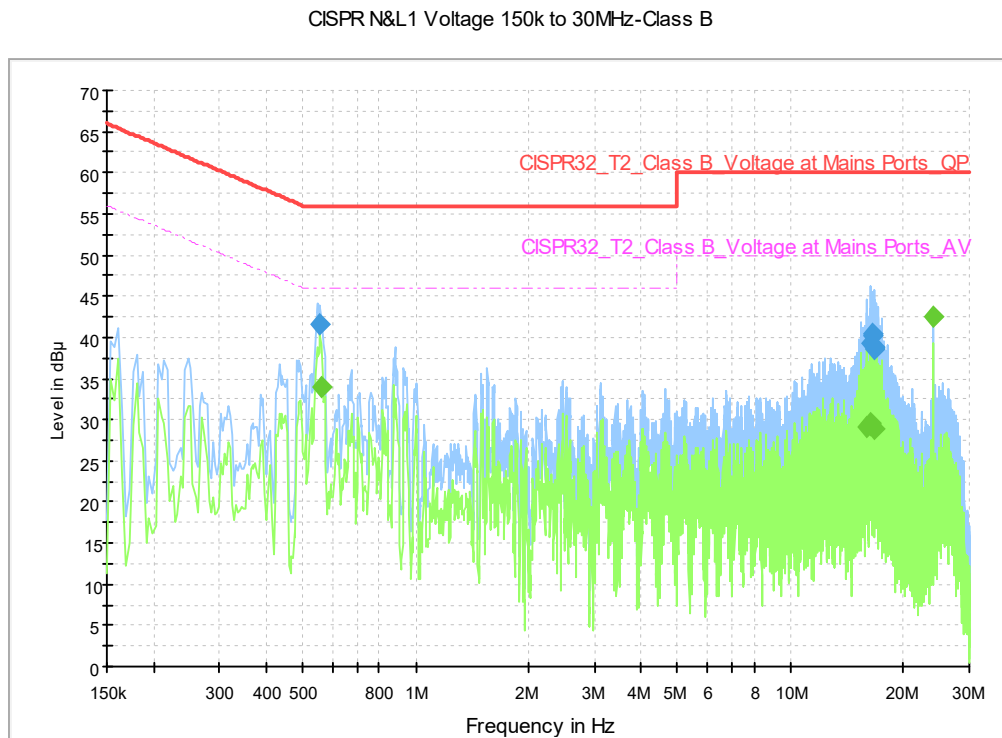
### Final Result 1

| Frequency<br>(MHz) | QuasiPeak<br>(dBμV) | Meas.<br>Time | Bandwidth<br>(kHz) | Filter | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit<br>(dBμV) |
|--------------------|---------------------|---------------|--------------------|--------|------|---------------|----------------|-----------------|
| 0.551512           | 41.5                | 1000.0        | 9.000              | On     | L1   | 9.7           | 14.5           | 56.0            |
| 16.346194          | 39.4                | 1000.0        | 9.000              | On     | L1   | 9.9           | 20.6           | 60.0            |
| 16.464756          | 40.1                | 1000.0        | 9.000              | On     | L1   | 9.9           | 19.9           | 60.0            |
| 16.588694          | 40.5                | 1000.0        | 9.000              | On     | L1   | 9.9           | 19.5           | 60.0            |
| 16.789675          | 38.9                | 1000.0        | 9.000              | On     | L1   | 9.9           | 21.1           | 60.0            |
| 16.797106          | 38.7                | 1000.0        | 9.000              | On     | L1   | 9.9           | 21.3           | 60.0            |

### Final Result 2

| Frequency<br>(MHz) | CAverage<br>(dBμV) | Meas.<br>Time | Bandwidth<br>(kHz) | Filter | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit<br>(dBμV) |
|--------------------|--------------------|---------------|--------------------|--------|------|---------------|----------------|-----------------|
| 0.558706           | 34.0               | 1000.0        | 9.000              | On     | L1   | 9.7           | 12.0           | 46.0            |
| 15.883188          | 29.1               | 1000.0        | 9.000              | On     | L1   | 9.9           | 20.9           | 50.0            |
| 16.314194          | 29.5               | 1000.0        | 9.000              | On     | L1   | 9.9           | 20.5           | 50.0            |
| 16.321056          | 29.3               | 1000.0        | 9.000              | On     | L1   | 9.9           | 20.7           | 50.0            |
| 16.757106          | 28.9               | 1000.0        | 9.000              | On     | L1   | 9.9           | 21.1           | 50.0            |
| 24.001881          | 42.5               | 1000.0        | 9.000              | On     | L1   | 9.9           | 7.5            | 50.0            |

**Conclusion: PASS**



Line L& N

### Test photo

See the Pic3 in document" PT200LSV \_Wifi\_BT\_Test Setup Photos".

**Annex A EUT Photos**

See the document” PT200LSV -External Photos”.

See the document” PT200LSV -Internal Photos”.

**ANNEX B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

**\*\*\*End Of Report\*\*\***