

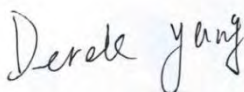
# FCC TEST REPORT

**Application No.:** ZR/2021/10049  
**Applicant:** HMD Global Oy  
**Address of Applicant:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**Manufacturer:** HMD Global Oy  
**Address of Manufacturer:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**EUT Description:** smart phone  
**Model No.:** TA-1341  
**Trade Mark:** Nokia  
**FCC ID:** 2AJOTTA-1341  
**Standards:** 47 CFR FCC Part 2, Subpart J  
47 CFR Part 15, Subpart C  
**Date of Receipt:** 2021/1/29  
**Date of Test:** 2021/1/29 to 2021/3/3  
**Date of Issue:** 2021/4/17

|                      |               |
|----------------------|---------------|
| <b>Test Result :</b> | <b>PASS *</b> |
|----------------------|---------------|

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang  
Wireless Laboratory Manager



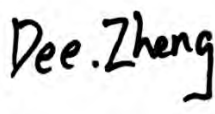

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## 1 Version

| Revision Record |         |           |            |  |
|-----------------|---------|-----------|------------|--|
| Version         | Chapter | Date      | Modifier   | Remark   |
| 01              |         | 2021/3/9  |            | Original   |
| 02              |         | 2021/4/17 | Eason Wang | 1.Add test site<br>Information<br>2.Update<br>equipment list |
|                 |         |           |            |  |

|                          |  |
|--------------------------|--|
| Authorized for issue by: |  |
| Prepared By              | <br>(Dee Zheng) / Engineer  |
| Checked By               | <br>(Jim Huang) / Reviewer |

## 2 Test Summary

| Test Item   | Test Requirement | Test Method      | Test Result | Result | Test Lab* |
|---|------------------|------------------|-------------|--------|-----------|
| AC Power Line Conducted Emission                                  | 15.207           | ANSI C63.10 2013 | Clause 4.2  | PASS   | B         |
| Conducted Output Power  | 15.247 (b)(3)    | ANSI C63.10 2013 | Clause 4.3  | PASS   | A         |
| DTS (6 dB) Bandwidth  | 15.247 (a)(2)    | ANSI C63.10 2013 | Clause 4.4  | PASS   | A         |
| Power Spectral Density  | 15.247 (e)       | ANSI C63.10 2013 | Clause 4.5  | PASS   | A         |
| Band-edge for RF Conducted Emissions                              | 15.247(d)        | ANSI C63.10 2013 | Clause 4.6  | PASS   | A         |
| RF Conducted Spurious Emissions                                   | 15.247(d)        | ANSI C63.10 2013 | Clause 4.7  | PASS   | A         |
| Radiated Spurious Emissions                                       | 15.205/15.209    | ANSI C63.10 2013 | Clause 4.8  | PASS   | B         |
| Restricted bands around fundamental frequency (Radiated Emission) | 15.205/15.209    | ANSI C63.10 2013 | Clause 4.9  | PASS   | B         |

Remark : All test were performed by Lab A and B.

Parts of test items above were subcontracted to Lab B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI'AN) CO., LTD.

Test engineer: Dee Zheng, Swing Hu, Habit Zeng, Leah Chen, Ken Liu, Andy Yao



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## 3 General Information

### 3.1 Details of Client

|                         |   |
|-------------------------|---|
| Applicant:              | HMD Global Oy                               |
| Address of Applicant    | Bertel Jungin aukio 9, 02600 Espoo, Finland |
| Manufacturer:           | HMD Global Oy                               |
| Address of Manufacturer | Bertel Jungin aukio 9, 02600 Espoo, Finland |

### 3.2 Test Location

#### Lab A:

|            |   |
|------------|---|
| Company:   | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch                             |
| Address:   | No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China |
| Post code: | 518057  |

#### Lab B:

|            |  |
|------------|--|
| Company:   | SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.   |
| Address:   | 1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China |
| Post code: | 710086   |



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### 3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

**Lab A:**

• **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

**Lab B:**

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• **FCC –Designation Number: CN1271**



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### 3.4 General Description of EUT

|                      |   |
|----------------------|---|
| EUT Description:     | smart phone   |
| Model No.:           | TA-1341   |
| Trade Mark:          | Nokia   |
| Hardware Version:    | V1.0  |
| Software Version:    | 00WW_0_226  |
| Operation Frequency: | 2400MHz~2483.5MHz<br>fc = 2402 MHz + N * 2 MHz, where:<br>-fc = "Operating Frequency" in MHz,<br>-N = "Channel Number" with the range from 0 to 39. |
| Bluetooth version:   | Bluetooth V5.1  |
| Modulation Type:     | GFSK  |
| Number of Channel:   | 40  |
| Sample Type:         | <input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module  |
| Antenna Type:        | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated   |
| Antenna Gain:        | -1.28dBi  |

| Operation Frequency of each channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0                                   | 2402MHz   | 10      | 2422MHz   | 20      | 2442MHz   | 30      | 2462MHz   |
| 1                                   | 2404MHz   | 11      | 2424MHz   | 21      | 2444MHz   | 31      | 2464MHz   |
| 2                                   | 2406MHz   | 12      | 2426MHz   | 22      | 2446MHz   | 32      | 2466MHz   |
| 3                                   | 2408MHz   | 13      | 2428MHz   | 23      | 2448MHz   | 33      | 2468MHz   |
| 4                                   | 2410MHz   | 14      | 2430MHz   | 24      | 2450MHz   | 34      | 2470MHz   |
| 5                                   | 2412MHz   | 15      | 2432MHz   | 25      | 2452MHz   | 35      | 2472MHz   |
| 6                                   | 2414MHz   | 16      | 2434MHz   | 26      | 2454MHz   | 36      | 2474MHz   |
| 7                                   | 2416MHz   | 17      | 2436MHz   | 27      | 2456MHz   | 37      | 2476MHz   |
| 8                                   | 2418MHz   | 18      | 2438MHz   | 28      | 2458MHz   | 38      | 2478MHz   |
| 9                                   | 2420MHz   | 19      | 2440MHz   | 29      | 2460MHz   | 39      | 2480MHz   |



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**Remark:**

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel                   | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH0)   | 2402MHz   |
| The Middle channel(CH19)  | 2440MHz   |
| The Highest channel(CH39) | 2480MHz   |

### 3.5 Test Environment

| Operating Environment: |            |
|------------------------|------------|
| Temperature:           | 25.0 °C    |
| Humidity:              | 50 % RH    |
| Atmospheric Pressure:  | 101.30 KPa |

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

|  |  |
|--|--|
| <b>Standard requirement:</b>   | 47 CFR Part 15C Section 15.203 /247(c) |
| <p>15.203 requirement:<br/> An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:<br/> The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> |  |
| <p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.28dBi.</p>   |  |



## 4.2 AC Power Line Conducted Emissions

|  |   |              |           |
|--|---|--------------|-----------|
| Test Requirement:                                | 47 CFR Part 15C Section 15.207  |              |           |
| Test Method:                                     | ANSI C63.10: 2013   |              |           |
| Test Frequency Range:                            | 150kHz to 30MHz   |              |           |
| Limit:   | Frequency range (MHz)   | Limit (dBuV) |           |
|  |   | Quasi-peak   | Average   |
|  | 0.15-0.5  | 66 to 56*    | 56 to 46* |
|  | 0.5-5   | 56           | 46        |
|  | 5-30  | 60           | 50        |
| * Decreases with the logarithm of the frequency. |   |              |           |
| Test Procedure:                                  | <ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol> |              |           |



|                   |  |
|-------------------|--|
| Test Setup:       |  |
| Test Mode:        | Transmitting with GFSK modulation.<br>Charge +Transmitting mode. |
| Instruments Used: | Refer to section 6 for details.                                  |
| Test Results:     | Pass   |



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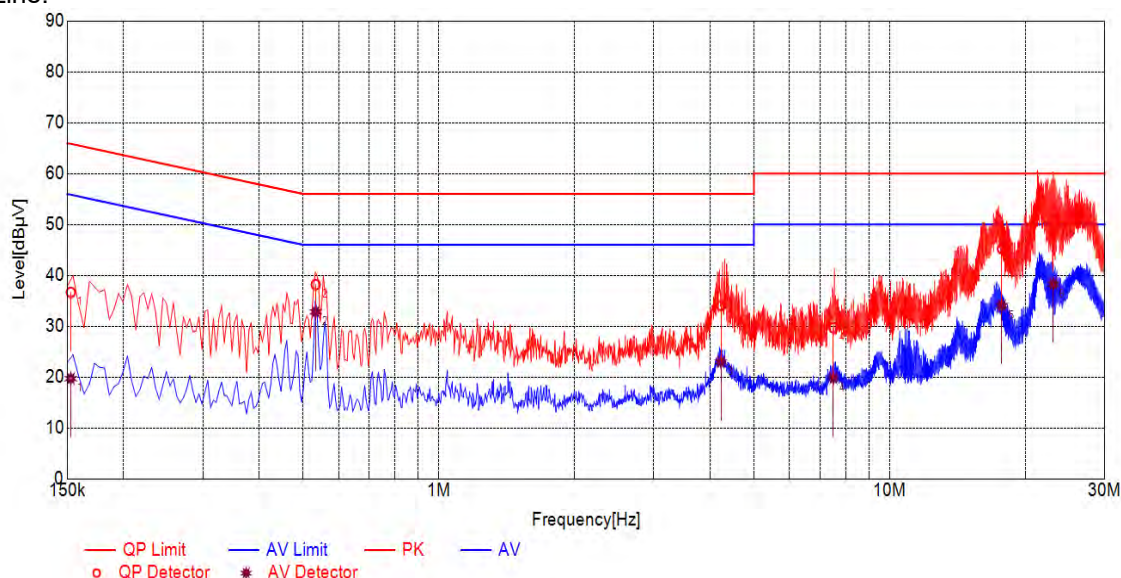
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### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

### Live Line:



### Test Graph

| Final Data List |             |             |                 |                 |                |                 |                 |                |
|-----------------|-------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
| NO.             | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] |
| 1               | 0.1528      | 10.10       | 36.65           | 65.84           | 29.19          | 19.70           | 55.84           | 36.14          |
| 2               | 0.5336      | 10.10       | 38.19           | 56.00           | 17.81          | 32.82           | 46.00           | 13.18          |
| 3               | 4.2270      | 10.10       | 34.05           | 56.00           | 21.95          | 22.97           | 46.00           | 23.03          |
| 4               | 7.5068      | 10.10       | 29.70           | 60.00           | 30.30          | 19.81           | 50.00           | 30.19          |
| 5               | 17.7444     | 10.11       | 45.21           | 60.00           | 14.79          | 34.06           | 50.00           | 15.94          |
| 6               | 23.0851     | 10.11       | 52.31           | 60.00           | 7.69           | 38.29           | 50.00           | 11.71          |



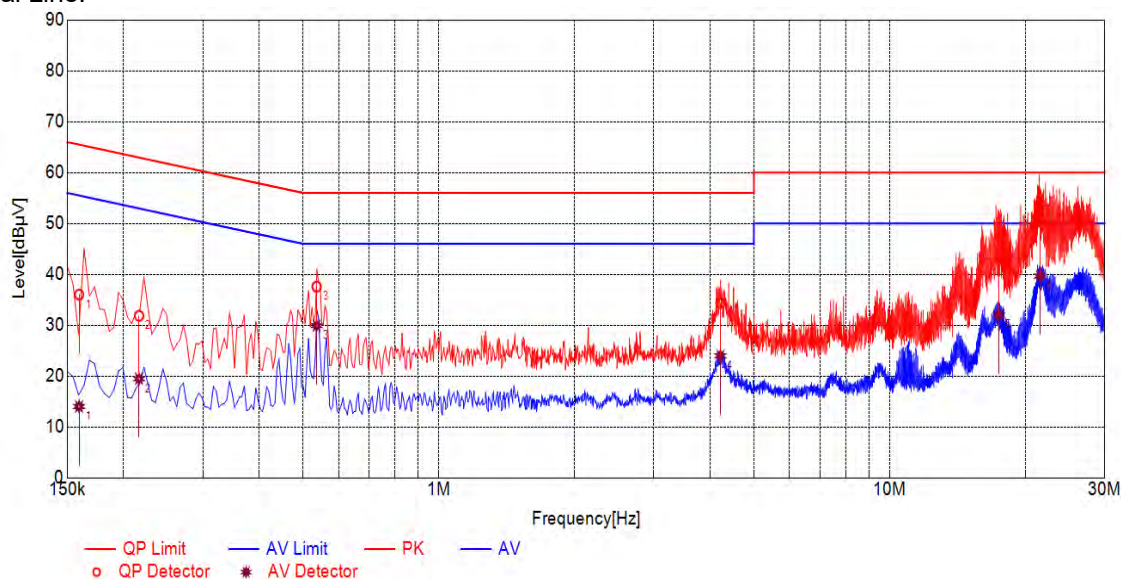
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Neutral Line:



### Test Graph

| Final Data List |             |             |                 |                 |                |                 |                 |                |
|-----------------|-------------|-------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
| NO.             | Freq. [MHz] | Factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] |
| 1               | 0.1594      | 10.10       | 36.02           | 65.49           | 29.47          | 14.02           | 55.49           | 41.47          |
| 2               | 0.2165      | 10.10       | 31.84           | 62.95           | 31.11          | 19.47           | 52.95           | 33.48          |
| 3               | 0.5361      | 10.10       | 37.60           | 56.00           | 18.40          | 29.91           | 46.00           | 16.09          |
| 4               | 4.2151      | 10.10       | 34.35           | 56.00           | 21.65          | 23.97           | 46.00           | 22.03          |
| 5               | 17.4849     | 10.11       | 43.56           | 60.00           | 16.44          | 32.03           | 50.00           | 17.97          |
| 6               | 21.5539     | 10.11       | 50.81           | 60.00           | 9.19           | 39.65           | 50.00           | 10.35          |

Remarks:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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## 4.3 Duty Cycle

### 4.3.1 Test Results

| Test Mode | TX Freq. [MHz]  | Duty cycle [%] |
|-----------|-----------------|----------------|
| BLE_1M    | CH0, CH19, CH39 | 62.50          |
| BLE_2M    | CH0, CH19, CH39 | 32.92          |



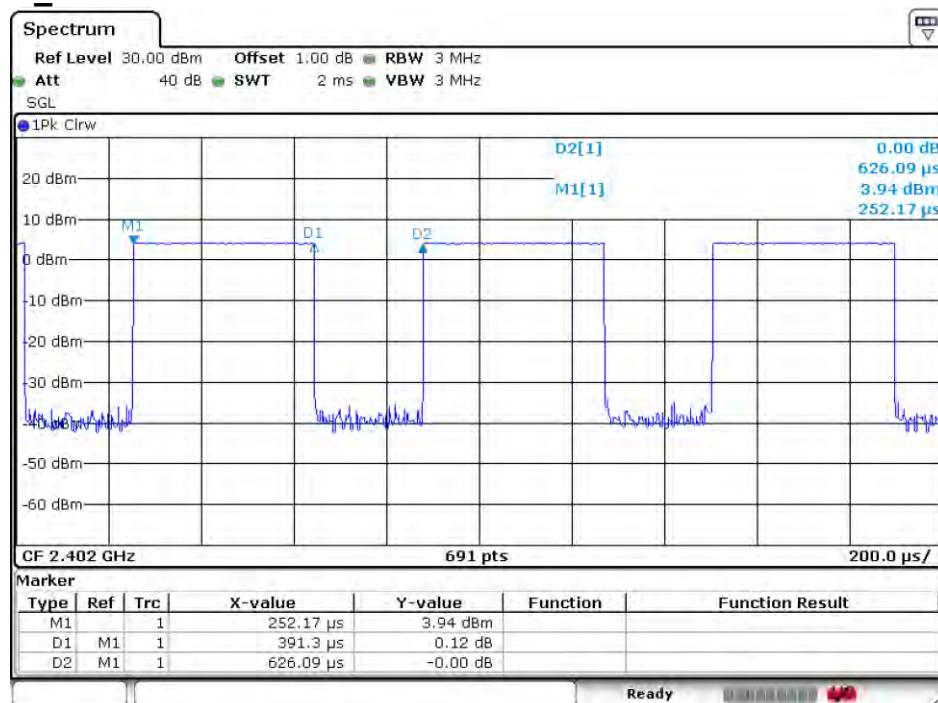
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### 4.3.2 Test Plots

#### 4.3.2.1 ANT1

##### 4.3.2.1.1 BLE\_1M



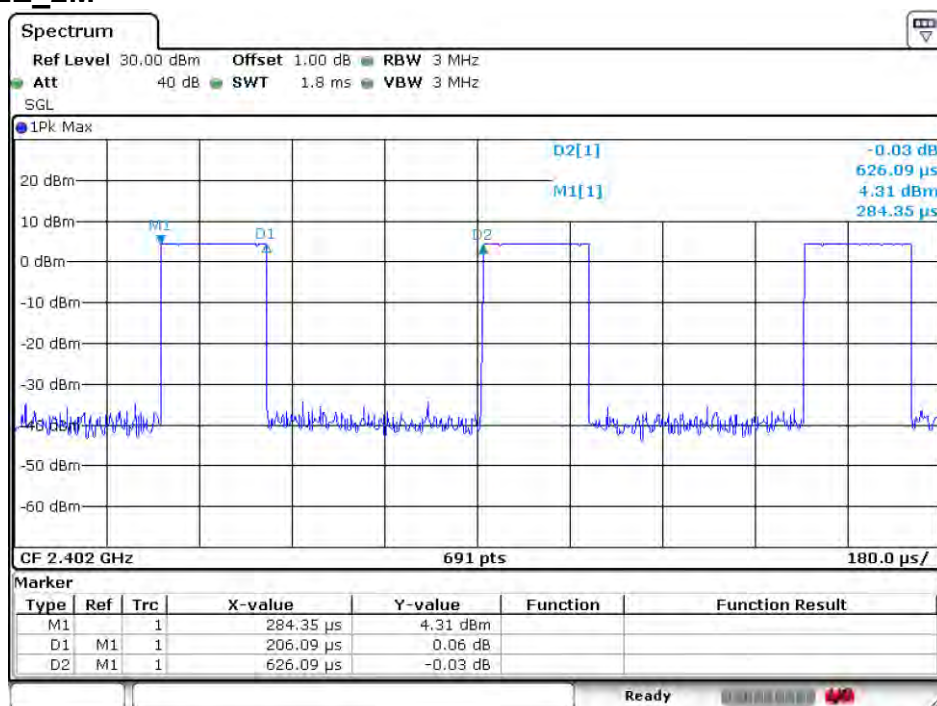
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### 4.3.2.1.2 BLE\_2M



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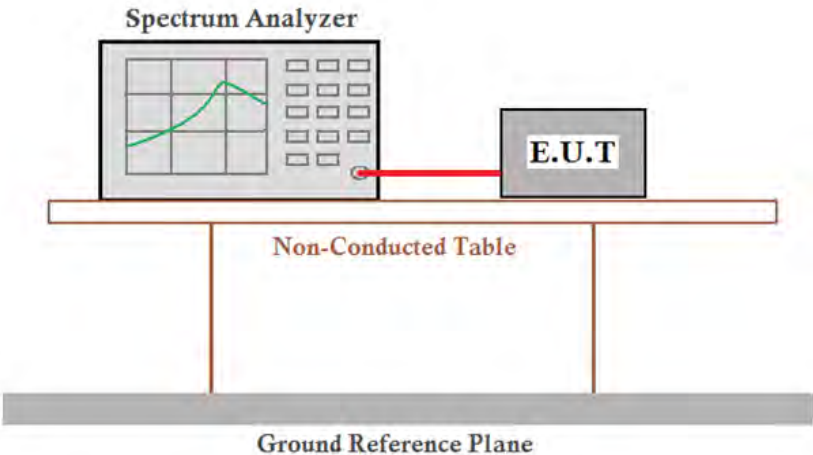


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## 4.4 Conducted Output Power

|                   |   |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(3)   |
| Test Method:      | ANSI C63.10 :2013 Section 11.9.1.1  |
| Test Setup:       |  |
| Test Instruments: | Refer to section 6 for details  |
| Test Mode:        | Transmitting with GFSK modulation.  |
| Limit:            | 30dBm   |
| Test Results:     | Pass  |



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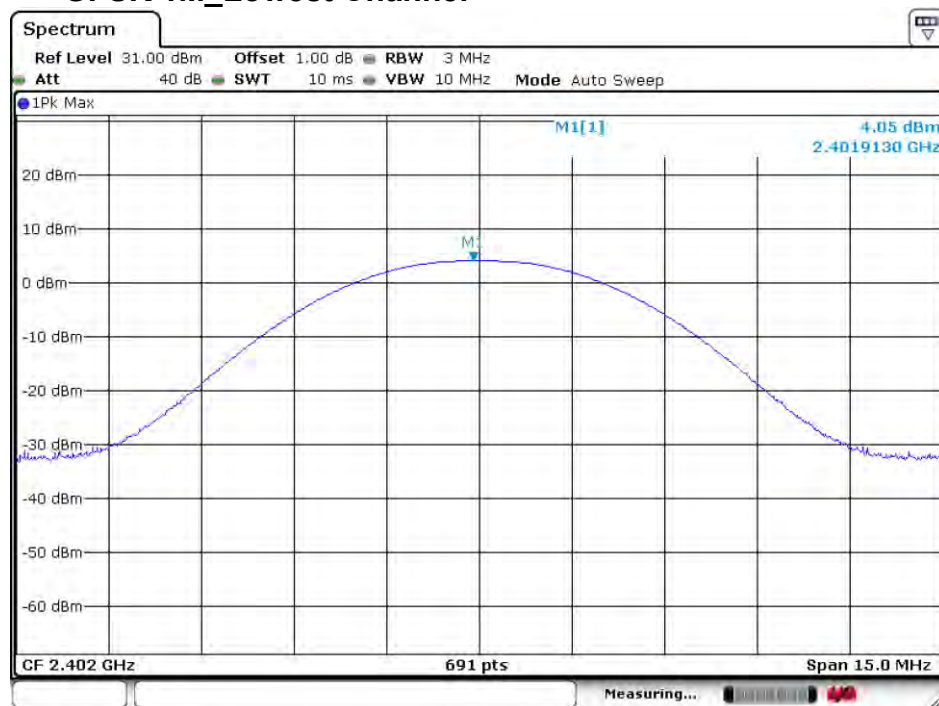
### 4.4.1 Test Results

#### Measurement Data of Peak Power:

| GFSK_1M mode |                         |             |        |
|--------------|-------------------------|-------------|--------|
| Test Channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest       | 4.05                    | 30.00       | Pass   |
| Middle       | 4.02                    | 30.00       | Pass   |
| Highest      | 6.51                    | 30.00       | Pass   |
| GFSK_2M mode |                         |             |        |
| Test Channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest       | 4.70                    | 30.00       | Pass   |
| Middle       | 4.46                    | 30.00       | Pass   |
| Highest      | 7.47                    | 30.00       | Pass   |

### 4.4.2 Test Plots

#### 4.4.2.1 GFSK 1M\_Lowest Channel



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### 4.4.2.2 GFSK 1M\_Middle Channel



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### 4.4.2.3 GFSK 1M\_Highest Channel



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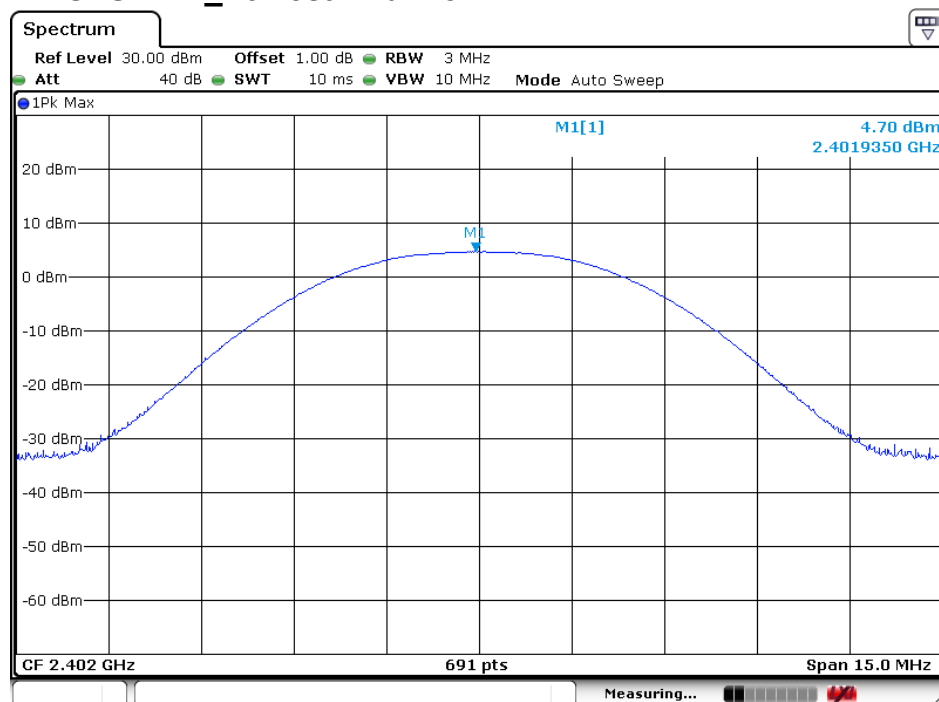
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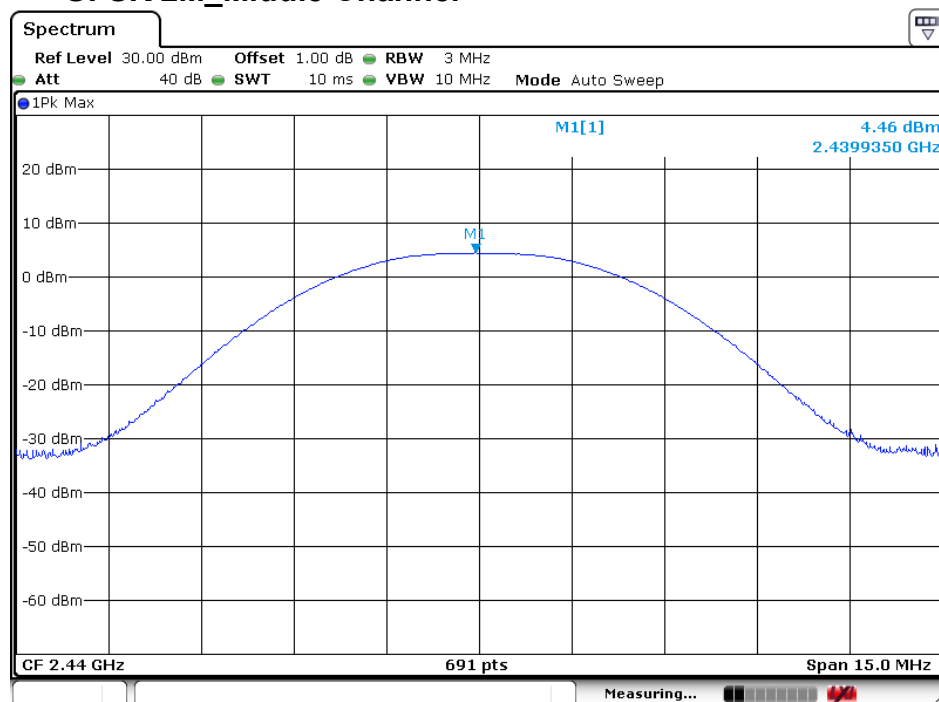
### GFSK 2M\_Lowest Channel



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### 4.4.2.1

### GFSK 2M\_Middle Channel



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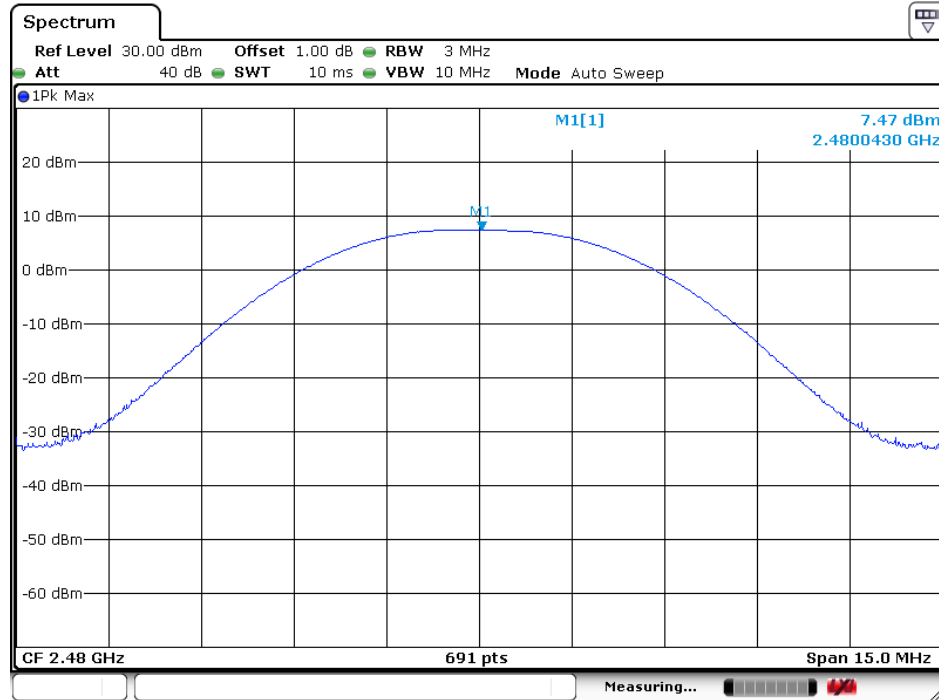
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### 4.4.2.1

### GFSK 2M\_Highest Channel



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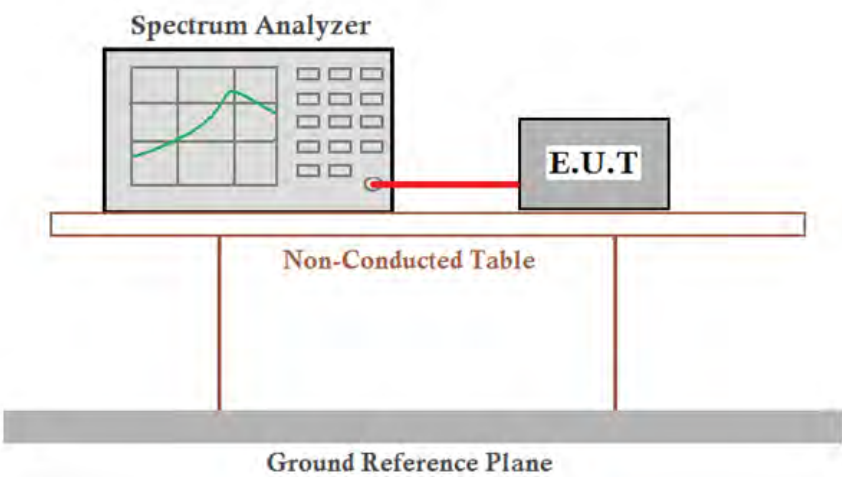
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## 4.5 DTS (6 dB) Bandwidth

|                   |  |
|-------------------|--|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(2)  |
| Test Method:      | ANSI C63.10: 2013 Section 11.8 Option 2  |
| Test Setup:       |  |
| Instruments Used: | Refer to section 6 for details   |
| Test Mode:        | Transmitting with GFSK modulation.   |
| Limit:            | $\geq 500$ kHz   |
| Test Results:     | Pass   |

### 4.5.1 Test Results

| Mode    | Test Channel | 6dB Emission Bandwidth (MHz) | Limit (kHz) | Result |
|---------|--------------|------------------------------|-------------|--------|
| GFSK_1M | Lowest       | 0.67                         | $\geq 500$  | Pass   |
|         | Middle       | 0.67                         | $\geq 500$  | Pass   |
|         | Highest      | 0.67                         | $\geq 500$  | Pass   |
| Mode    | Test Channel | 6dB Emission Bandwidth (MHz) | Limit (kHz) | Result |
| GFSK_2M | Lowest       | 1.14                         | $\geq 500$  | Pass   |
|         | Middle       | 1.16                         | $\geq 500$  | Pass   |
|         | Highest      | 1.14                         | $\geq 500$  | Pass   |



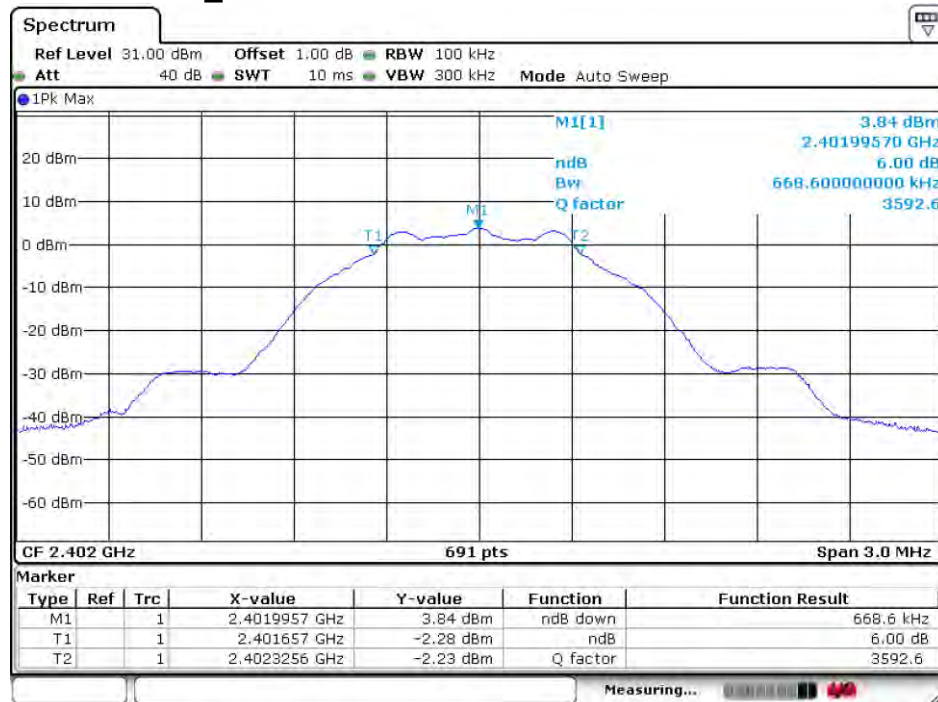
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### 4.5.2 Test Plots

#### 4.5.2.1 GFSK 1M\_Lowest Channel



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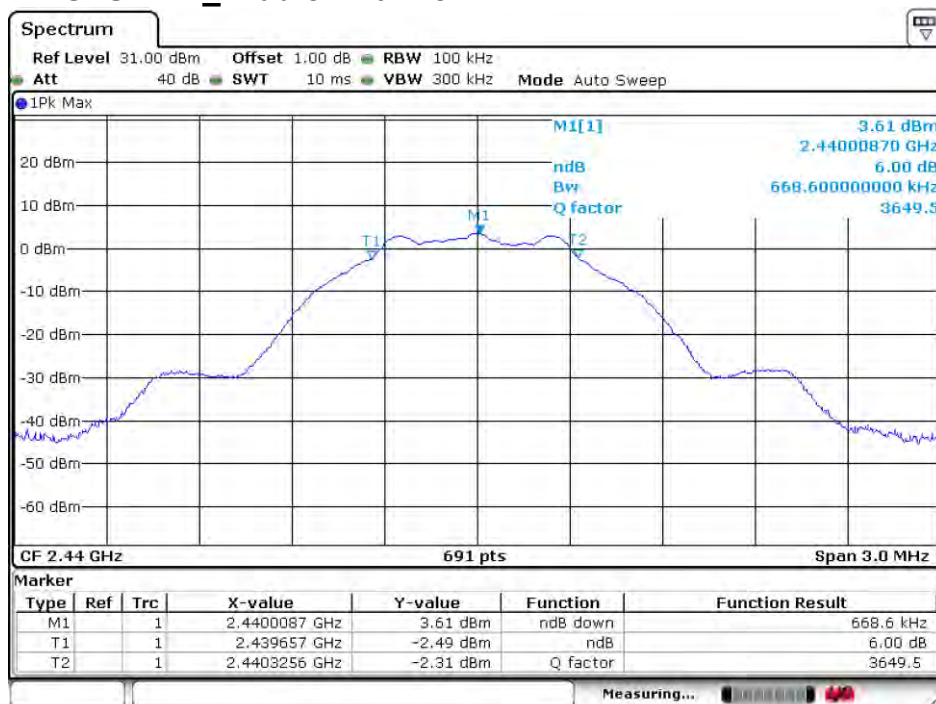
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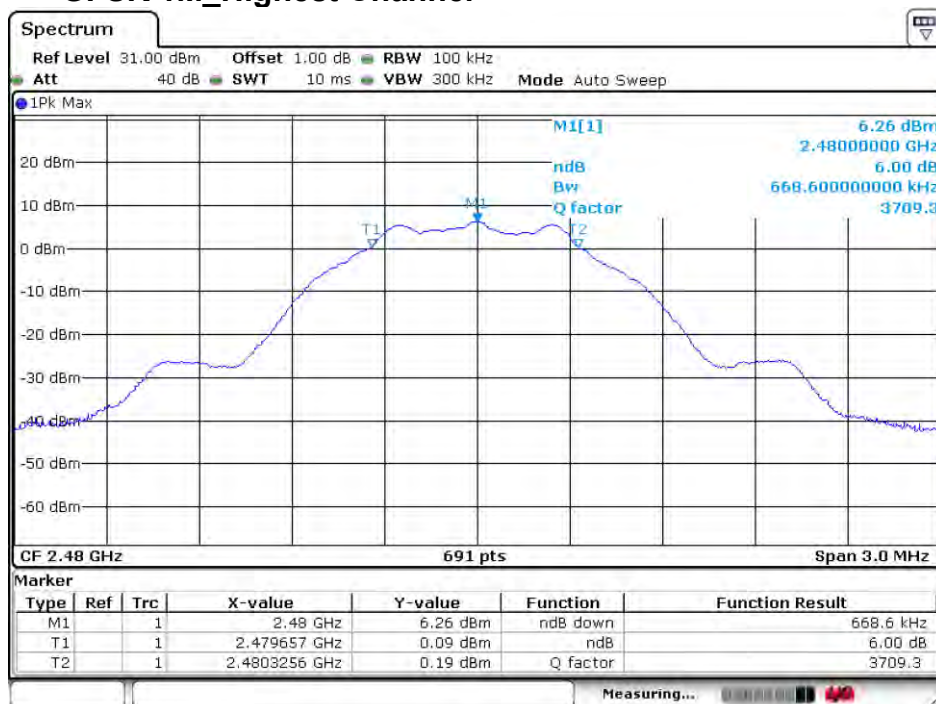
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### 4.5.2.2 GFSK 1M\_Middle Channel



Date: 3.FEB.2021 16:57:39

### 4.5.2.3 GFSK 1M\_Highest Channel



Date: 3.FEB.2021 16:57:24



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### 4.5.2.1

### GFSK 2M\_Lowest Channel



Date: 23 MAR 2021 11:21:35

### 4.5.2.1

### GFSK 2M\_Middle Channel



Date: 23 MAR 2021 11:21:19



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### 4.5.2.1

### GFSK 2M\_Highest Channel



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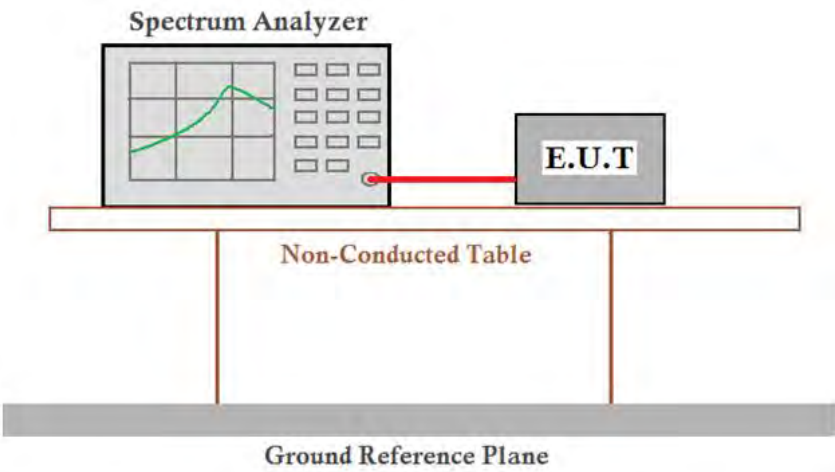
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### 4.6 Power Spectral Density

|                   |   |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (e)  |
| Test Method:      | ANSI C63.10 :2013 Section 11.10.2   |
| Test Setup:       |  |
| Test Instruments: | Refer to section 6 for details  |
| Test Mode:        | Transmitting with GFSK modulation.  |
| Limit:            | ≤8.00dBm/3kHz   |
| Test Results:     | Pass  |

#### 4.6.1 Test Results

| Mode    | Test Channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---------|--------------|-----------------------------------|------------------|--------|
| GFSK_1M | Lowest       | -10.86                            | ≤8.00            | Pass   |
|         | Middle       | -10.90                            | ≤8.00            | Pass   |
|         | Highest      | -8.45                             | ≤8.00            | Pass   |
| Mode    | Test Channel | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| GFSK_1M | Lowest       | -14.07                            | ≤8.00            | Pass   |
|         | Middle       | -14.34                            | ≤8.00            | Pass   |
|         | Highest      | -11.33                            | ≤8.00            | Pass   |

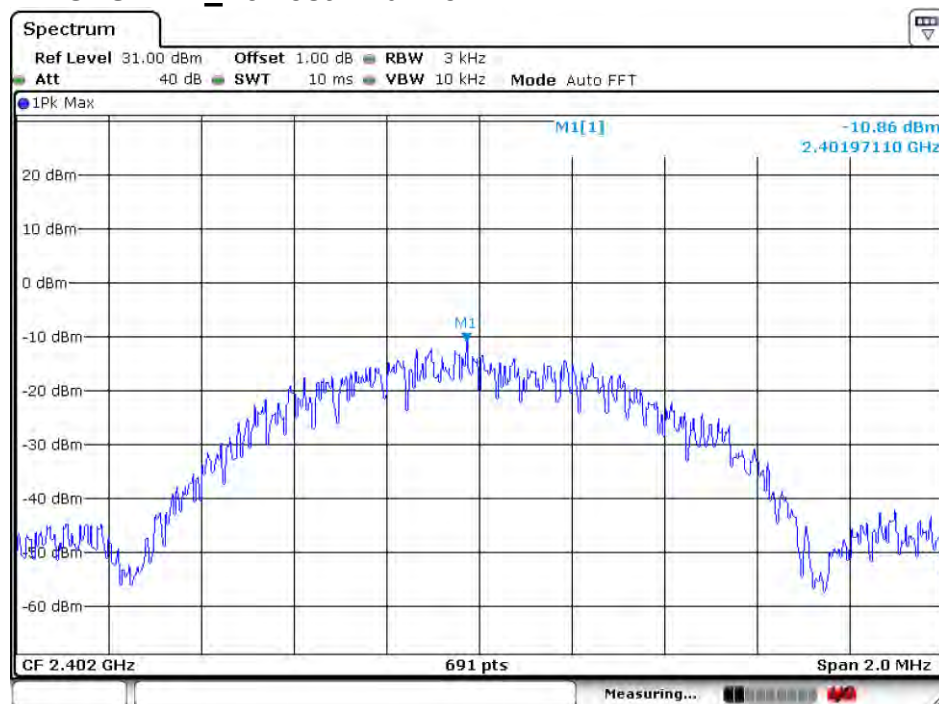


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### 4.6.2 Test Plots

#### 4.6.2.1 GFSK 1M\_Lowest Channel



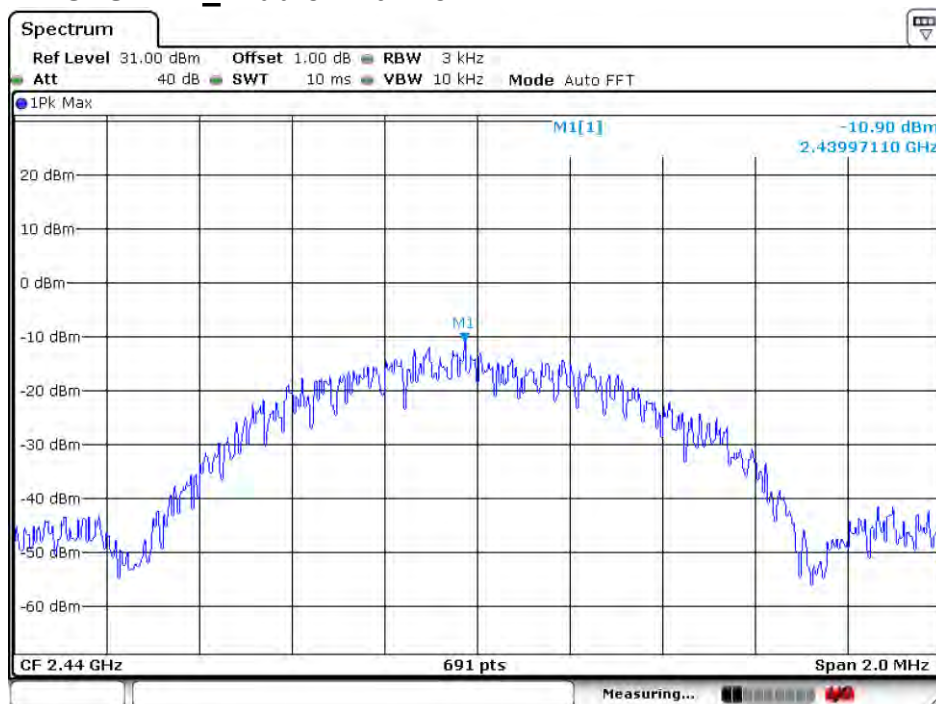
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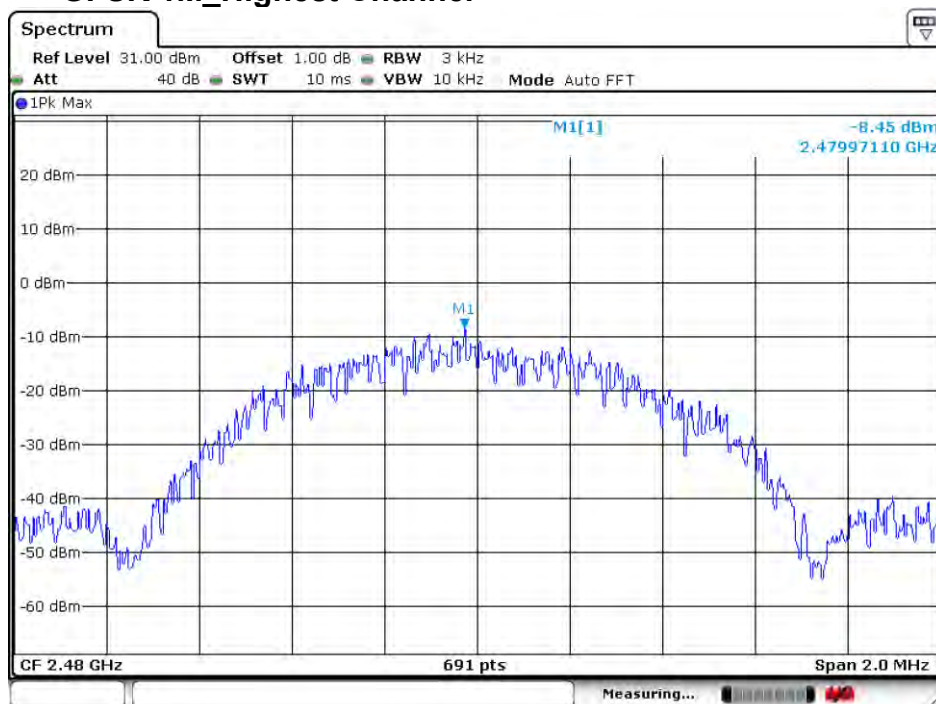
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### 4.6.2.2 GFSK 1M\_Middle Channel



Date: 3.FEB.2021 16:54:41

### 4.6.2.3 GFSK 1M\_Highest Channel



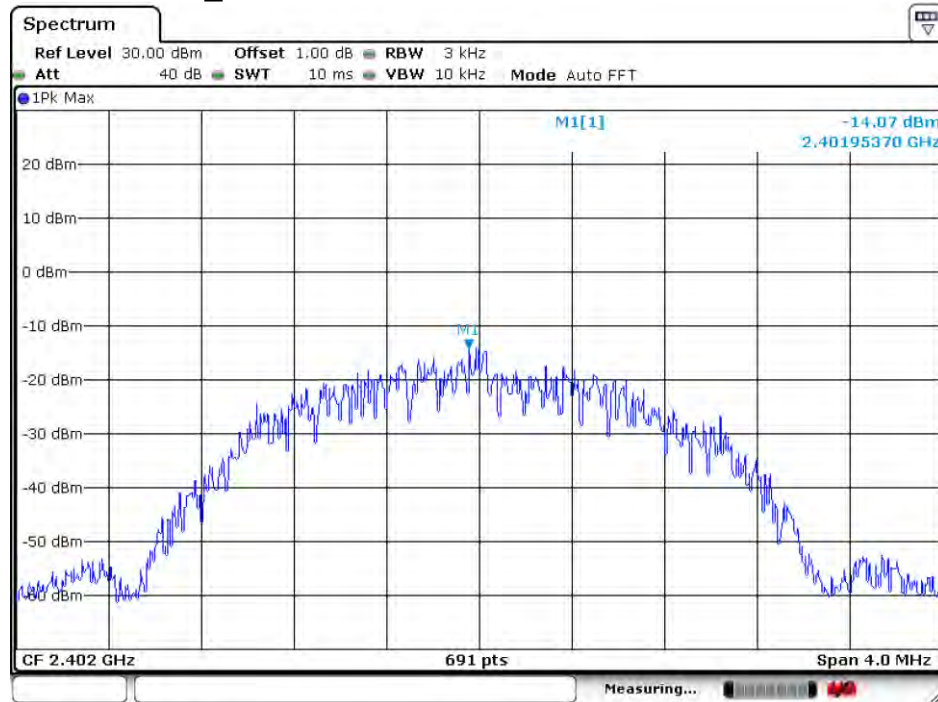
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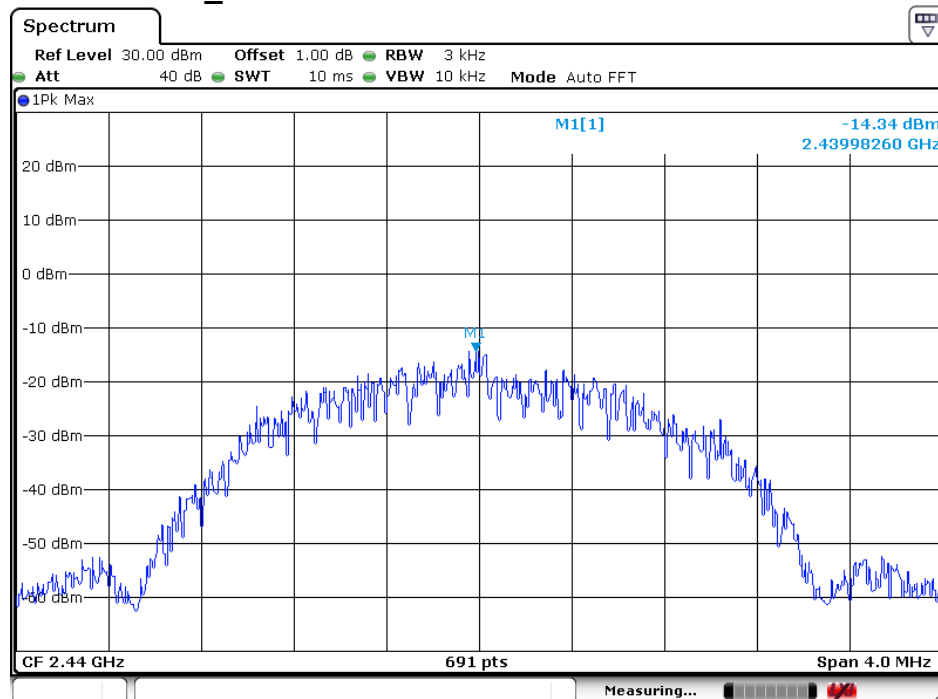


### 4.6.2.4 GFSK 2M\_Lowest Channel



Date: 23 MAR 2021 11:20:29

### 4.6.2.5 GFSK 2M\_Middle Channel



Date: 23 MAR 2021 11:20:08



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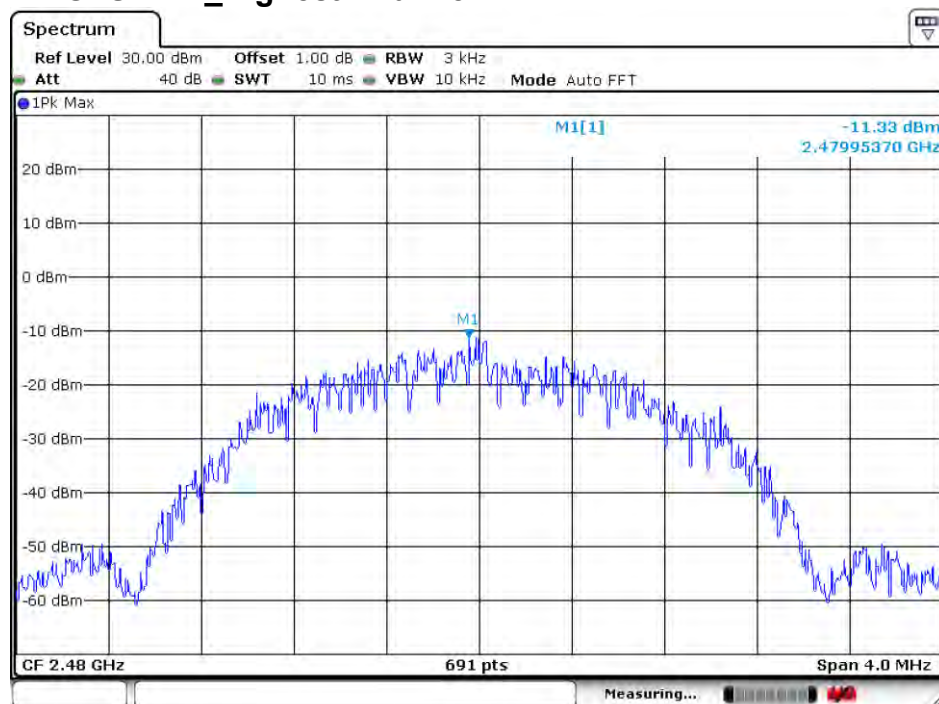
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### 4.6.2.6 GFSK 2M\_Highest Channel



Date: 23 MAR 2021 11:20:48



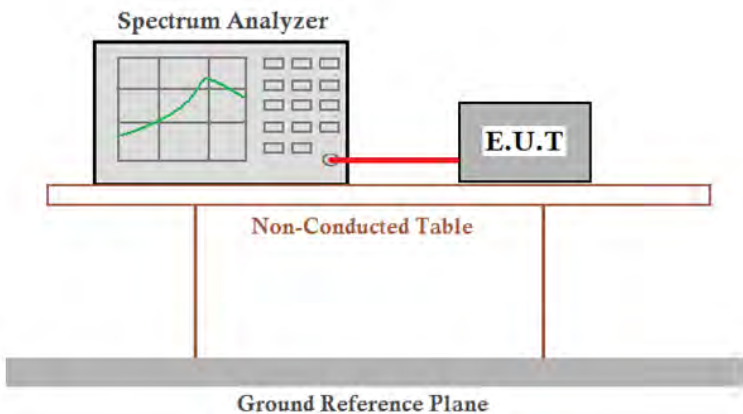
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## 4.7 Band-edge for RF Conducted Emissions

|                   |   |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d)  |
| Test Method:      | ANSI C63.10: 2013 Section 11.13   |
| Test Setup:       |   |
| Instruments Used: | Refer to section 6 for details  |
| Test Mode:        | Transmitting with GFSK modulation.  |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:     | Pass  |

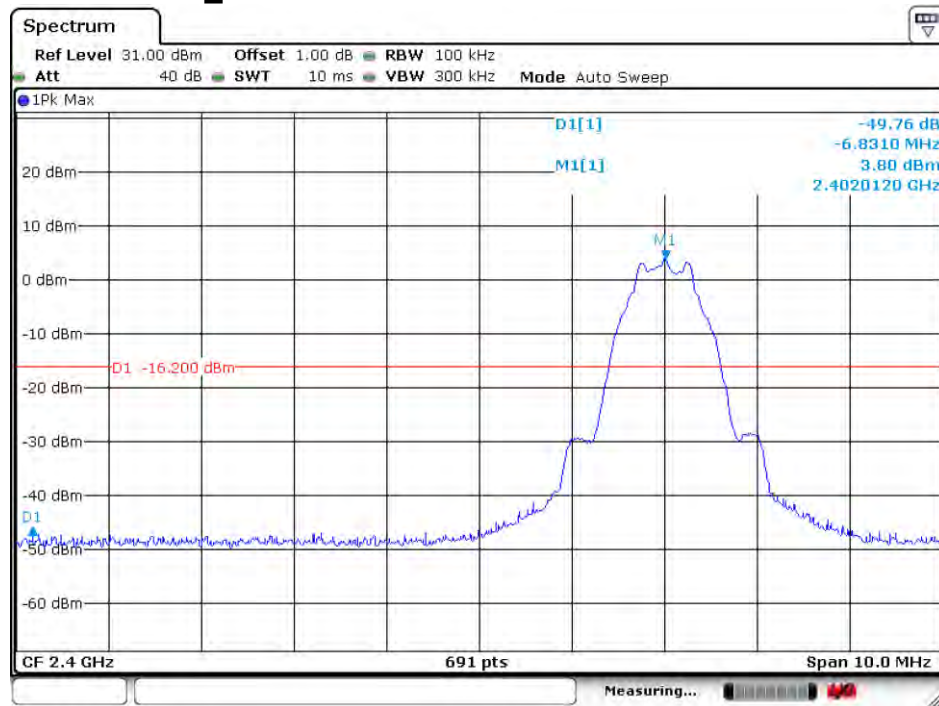


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## 4.7.1 Test Plots

### 4.7.1.1 GFSK 1M\_Lowest Channel



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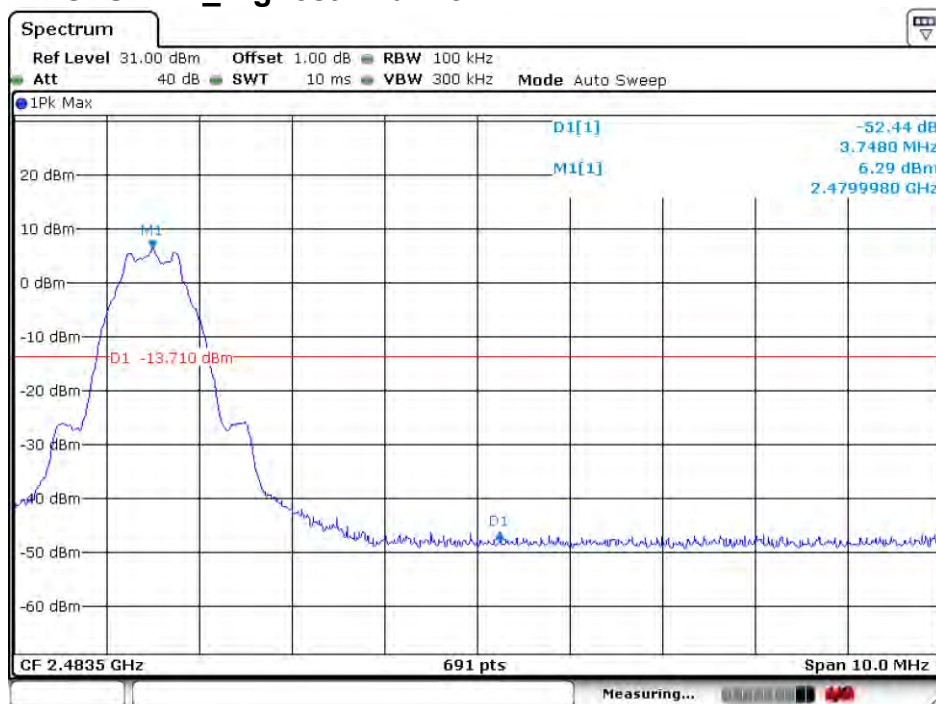


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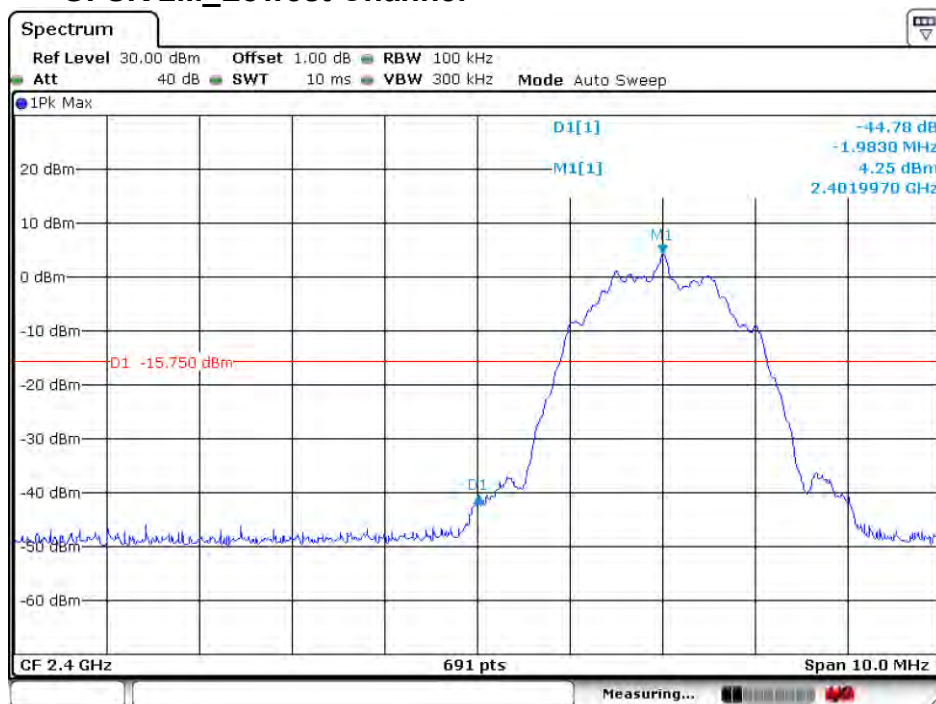


### 4.7.1.2 GFSK 1M\_Highest Channel



Date: 3.FEB.2021 17:01:16

### 4.7.1.1 GFSK 2M\_Lowest Channel



Date: 23.MAR.2021 11:25:33



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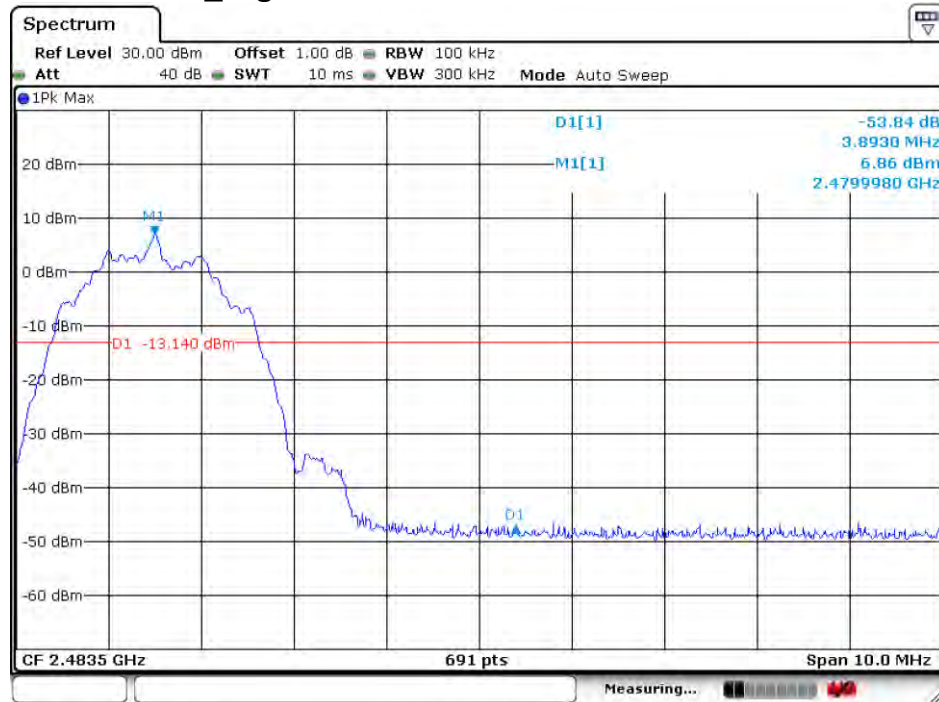
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## 4.7.1.1

### GFSK 2M\_Highest Channel



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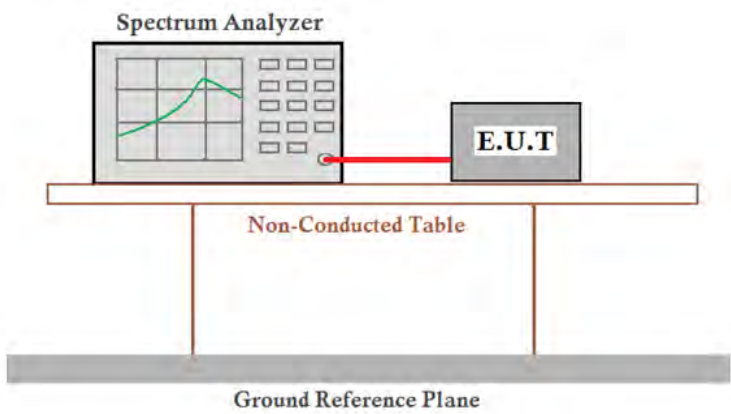
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## 4.8 RF Conducted Spurious Emissions

|                   |   |
|-------------------|---|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (d)  |
| Test Method:      | ANSI C63.10: 2013 Section 11.11   |
| Test Setup:       |   |
| Instruments Used: | Refer to section 6 for details  |
| Test Mode:        | Transmitting with GFSK modulation.  |
| Limit:            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. |
| Test Results:     | Pass  |

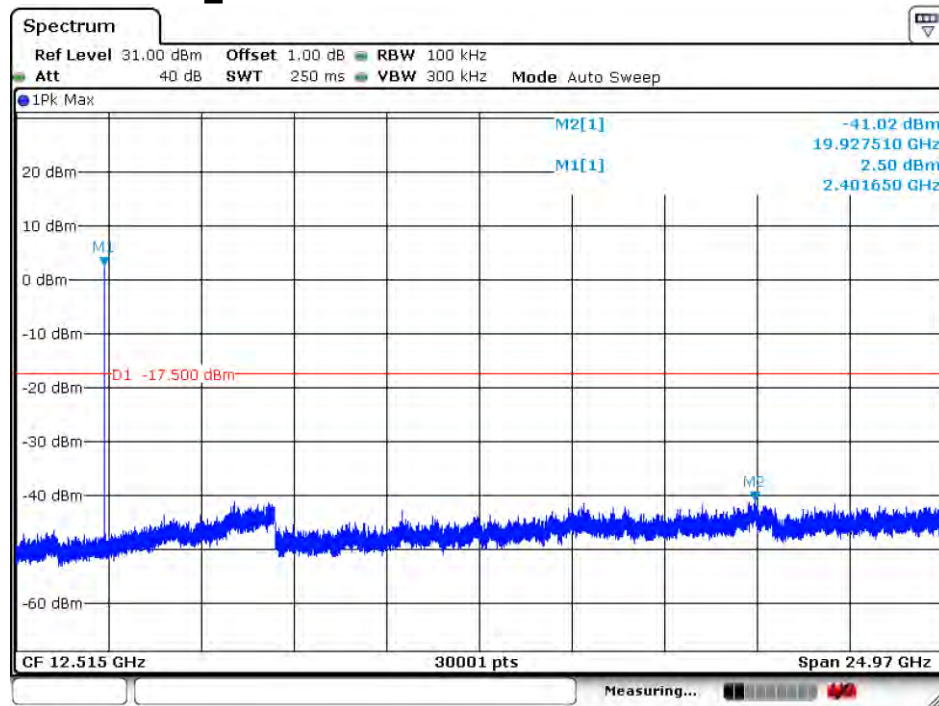


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## 4.8.1 Test Plots

### 4.8.1.1 GFSK 1M\_Lowest Channel



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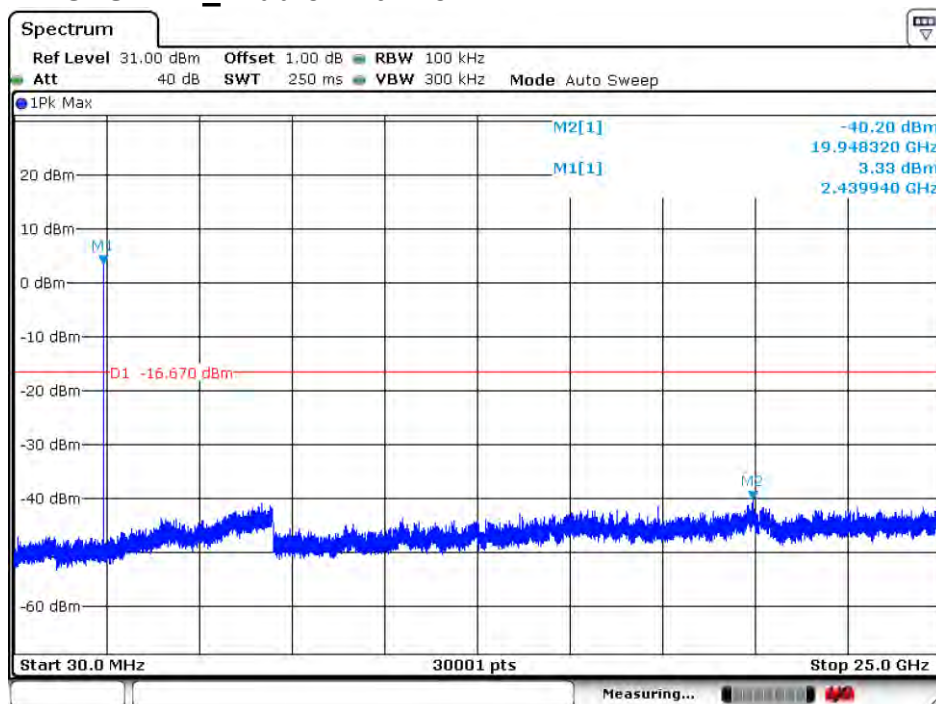


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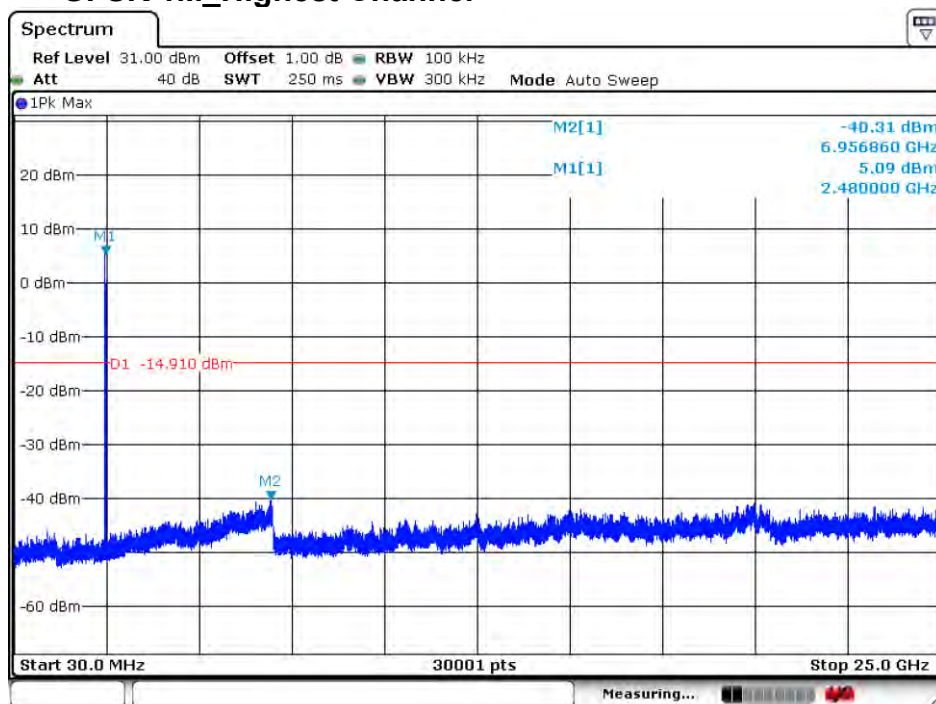


### 4.8.1.2 GFSK 1M\_Middle Channel



Date: 3.FEB.2021 17:02:55

### 4.8.1.3 GFSK 1M\_Highest Channel



Date: 3.FEB.2021 17:02:07



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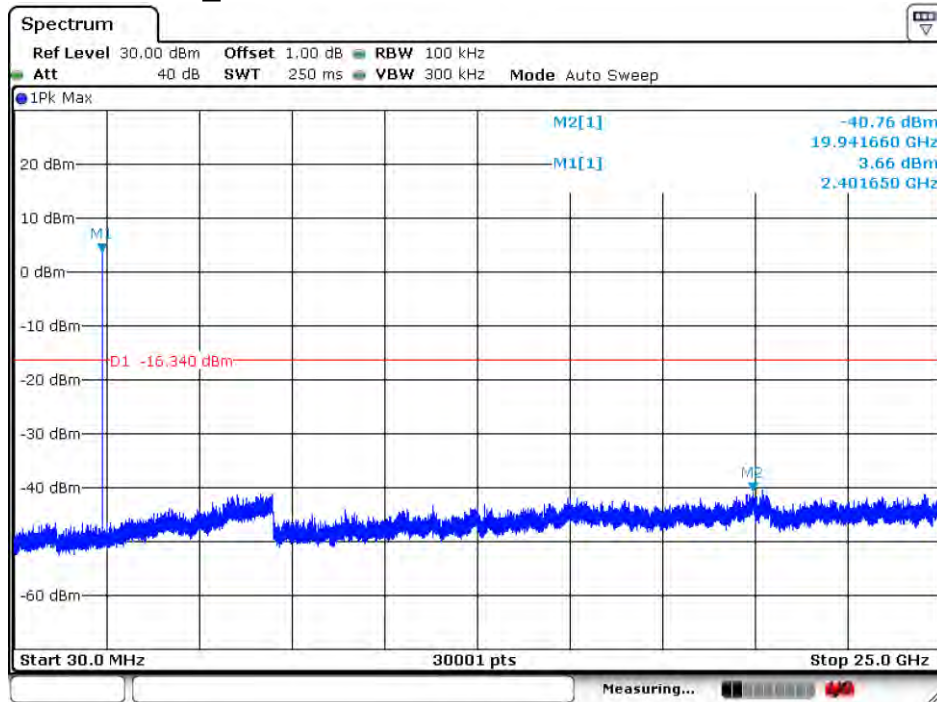
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### 4.8.1.1

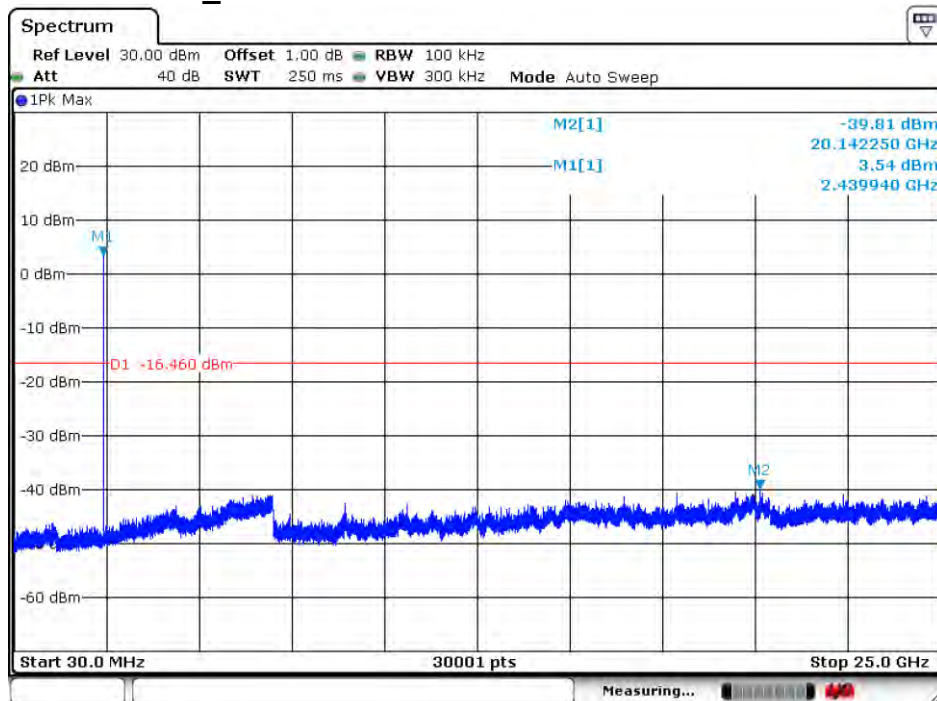
### GFSK 2M\_Lowest Channel



Date: 23.MAR.2021 11:28:04

### 4.8.1.1

### GFSK 2M\_Middle Channel



Date: 23.MAR.2021 11:30:02

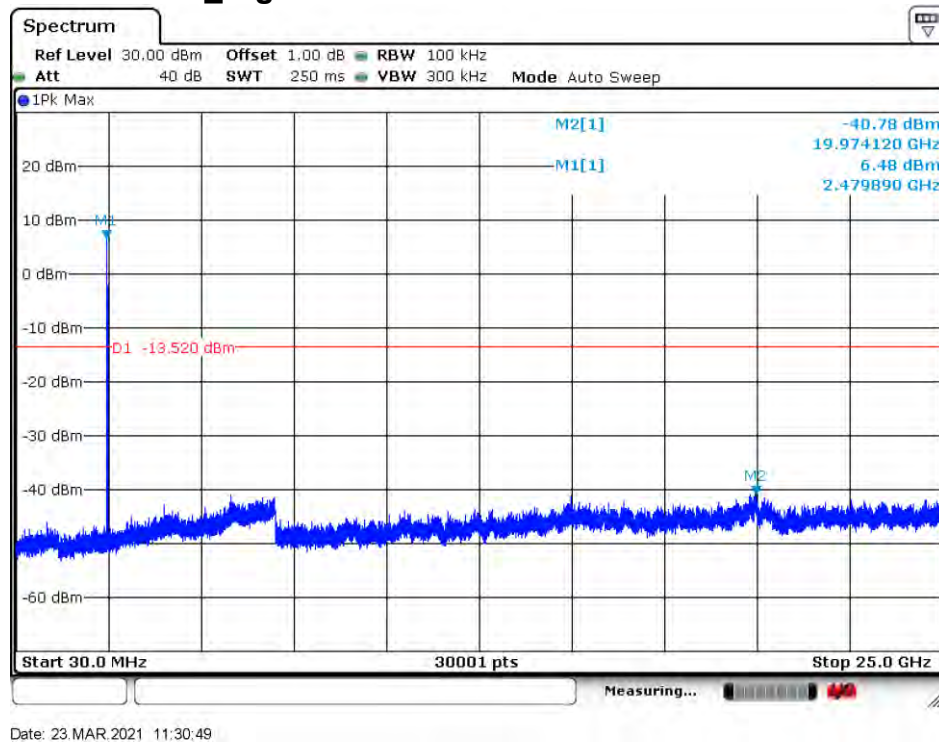


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### 4.8.1.1

### GFSK 2M\_Highest Channel



Date: 23 MAR 2021 11:30:49

#### Remark:

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



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## 4.9 Radiated Spurious Emissions

|                   |   |                                     |                   |            |                             |
|-------------------|---|-------------------------------------|-------------------|------------|-----------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205   |                                     |                   |            |                             |
| Test Method:      | ANSI C63.10 :2013 Section 11.12   |                                     |                   |            |                             |
| Test Site:        | Measurement Distance: 3m (Semi-Anechoic Chamber)  |                                     |                   |            |                             |
| Receiver Setup:   | Frequency   | Detector                            | RBW               | VBW        | Remark                      |
|                   | 0.009MHz-0.090MHz   | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                   | 0.009MHz-0.090MHz   | Average                             | 10kHz             | 30kHz      | Average                     |
|                   | 0.090MHz-0.110MHz   | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                   | 0.110MHz-0.490MHz   | Peak                                | 10kHz             | 30kHz      | Peak                        |
|                   | 0.110MHz-0.490MHz   | Average                             | 10kHz             | 30kHz      | Average                     |
|                   | 0.490MHz -30MHz   | Quasi-peak                          | 10kHz             | 30kHz      | Quasi-peak                  |
|                   | 30MHz-1GHz  | Quasi-peak                          | 120kHz            | 300kHz     | Quasi-peak                  |
|                   | Above 1GHz  | Peak                                | 1MHz              | 3MHz       | Peak                        |
|                   |   | Peak                                | 1MHz              | 10Hz       | Average                     |
| Limit:            | Frequency   | Field strength<br>(microvolt/meter) | Limit<br>(dBuV/m) | Remark     | Measurement<br>distance (m) |
|                   | 0.009MHz-0.490MHz   | 2400/F(kHz)                         | -                 | -          | 300                         |
|                   | 0.490MHz-1.705MHz   | 24000/F(kHz)                        | -                 | -          | 30                          |
|                   | 1.705MHz-30MHz  | 30                                  | -                 | -          | 30                          |
|                   | 30MHz-88MHz   | 100                                 | 40.0              | Quasi-peak | 3                           |
|                   | 88MHz-216MHz  | 150                                 | 43.5              | Quasi-peak | 3                           |
|                   | 216MHz-960MHz   | 200                                 | 46.0              | Quasi-peak | 3                           |
|                   | 960MHz-1GHz   | 500                                 | 54.0              | Quasi-peak | 3                           |
|                   | Above 1GHz  | 500                                 | 54.0              | Average    | 3                           |
|                   | Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. |                                     |                   |            |                             |



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### Test Setup:

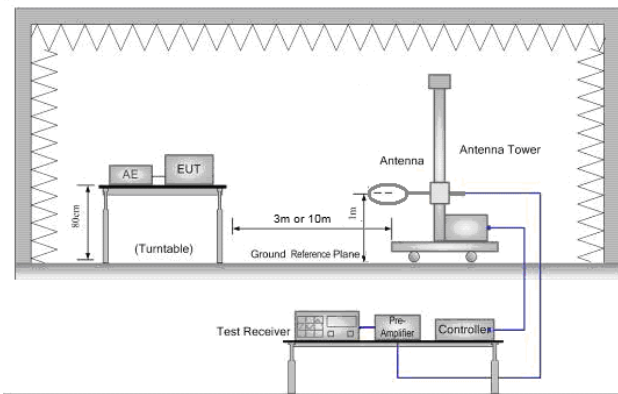


Figure 1. Below 30MHz

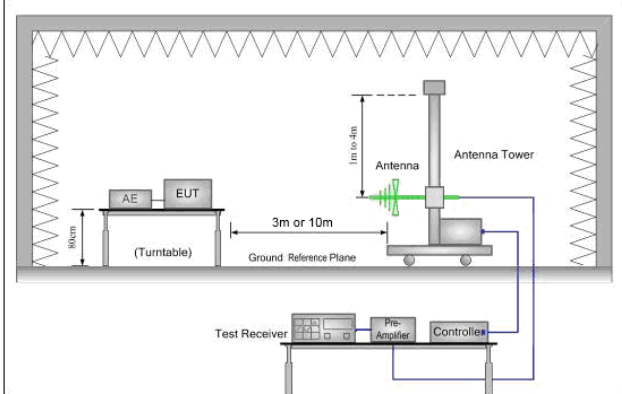


Figure 2. 30MHz to 1GHz

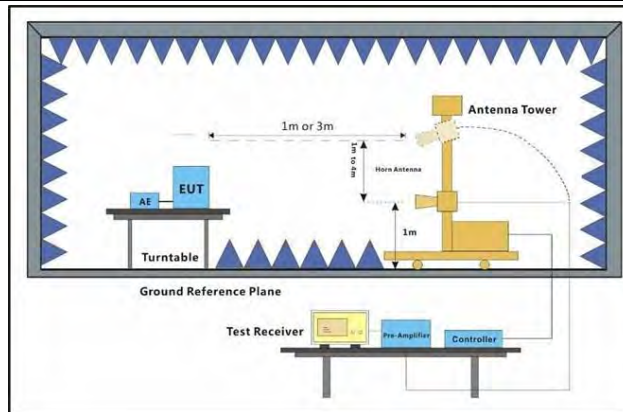


Figure 3. Above 1 GHz

### Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- Use the following spectrum analyzer settings:
  - Span shall wide enough to fully capture the emission being measured;
  - Set RBW=100 kHz for  $f < 1$  GHz, RBW=1MHz for  $f > 1$  GHz ;  
VBW  $\geq$  RBW; Sweep = auto;  
Detector function = peak; Trace = max hold for peak
  - For average measurement: use duty cycle correction factor method per 15.35(c).  
Duty cycle = On time/100 milliseconds



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Report No.: ZR/2021/1004903

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|                        |  |
|------------------------|--|
|                        | <p>On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math></p> <p>Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.</p> <p>Average Emission Level = Peak Emission Level + <math>20 * \log(\text{Duty cycle})</math></p> <p>f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the highest channel.</p> <p>j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p> |
| Exploratory Test Mode: | Transmitting with GFSK modulation.<br>Charge + Transmitting mode.  |
| Test Configuration:    | <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq</math> 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>   |
| Final Test Mode:       | <p>Transmitting with GFSK modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode,</p> <p>For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.</p>   |
| Instruments Used:      | Refer to section 6 for details   |
| Test Results:          | Pass   |



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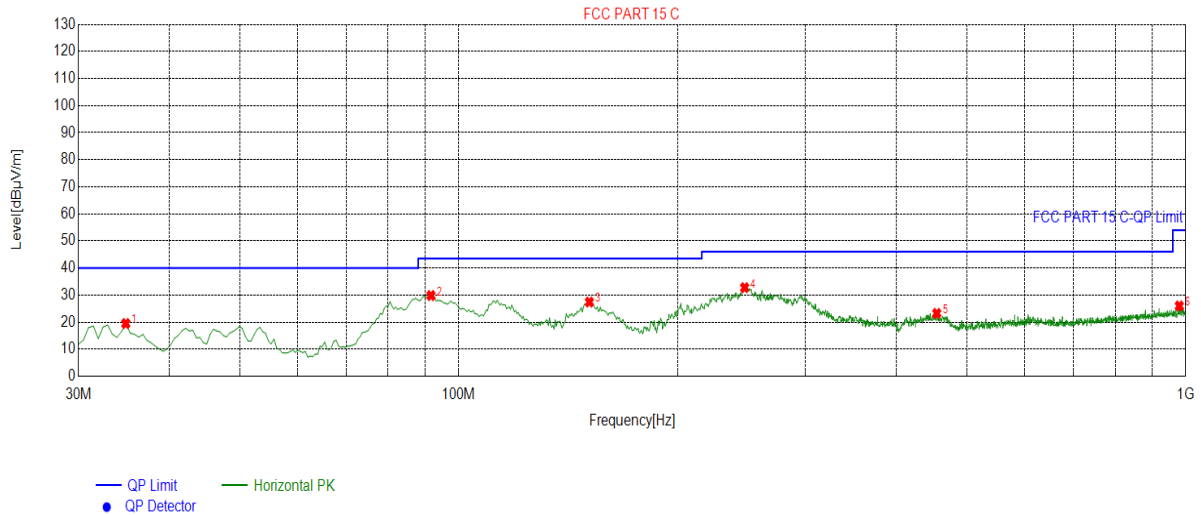
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### 4.9.1 Radiated Emission below 1GHz

#### 4.9.1.1 Charge + Transmitting

##### Test Graph



##### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 34.8524     | 19.50          | -32.76      | 40.00          | 20.50       | 128         | 255       | Horizontal |
| 2              | 91.6258     | 29.84          | -33.15      | 43.50          | 13.66       | 152         | 274       | Horizontal |
| 3              | 151.3107    | 27.43          | -34.72      | 43.50          | 16.07       | 211         | 69        | Horizontal |
| 4              | 247.3887    | 32.74          | -29.35      | 46.00          | 13.26       | 165         | 112       | Horizontal |
| 5              | 454.5873    | 23.24          | -23.74      | 46.00          | 22.76       | 238         | 128       | Horizontal |
| 6              | 980.1051    | 26.00          | -14.11      | 54.00          | 28.00       | 150         | 221       | Horizontal |

##### Final Data List



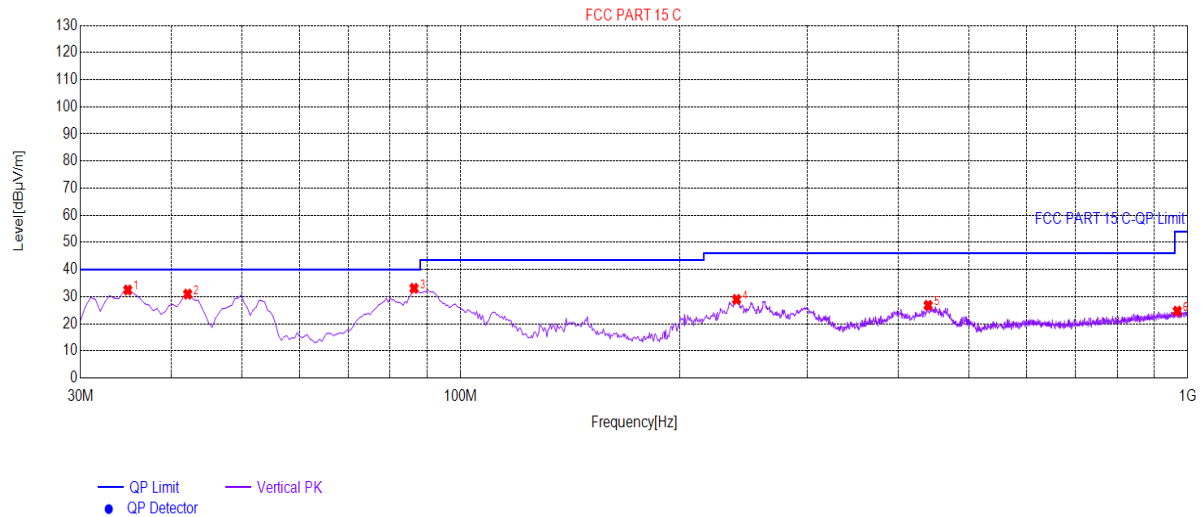
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### Test Graph



### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 34.8524     | 32.44          | -32.76      | 40.00          | 7.56        | 213         | 327       | Vertical |
| 2              | 42.1311     | 30.92          | -30.76      | 40.00          | 9.08        | 145         | 330       | Vertical |
| 3              | 86.2881     | 33.07          | -34.32      | 40.00          | 6.93        | 232         | 258       | Vertical |
| 4              | 239.6248    | 28.96          | -29.61      | 46.00          | 17.04       | 182         | 16        | Vertical |
| 5              | 439.5448    | 26.79          | -24.07      | 46.00          | 19.21       | 195         | 218       | Vertical |
| 6              | 967.4887    | 24.67          | -14.26      | 54.00          | 29.33       | 150         | 75        | Vertical |

### Final Data List



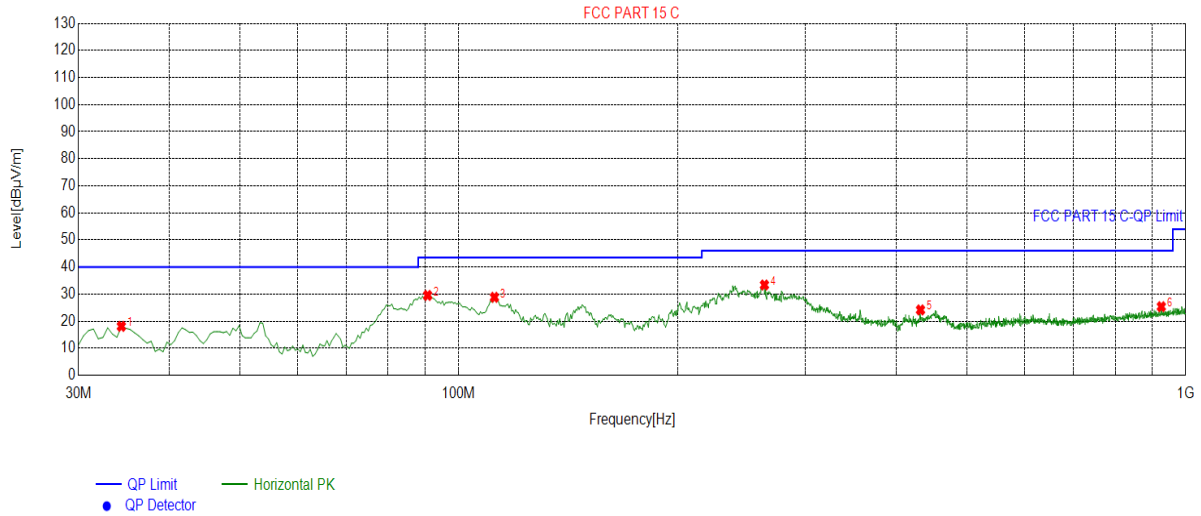
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### Test Graph



### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 34.3672     | 18.09          | -32.77      | 40.00          | 21.91       | 127         | 230       | Horizontal |
| 2              | 90.6553     | 29.51          | -33.32      | 43.50          | 13.99       | 138         | 267       | Horizontal |
| 3              | 112.0060    | 28.81          | -32.00      | 43.50          | 14.69       | 162         | 252       | Horizontal |
| 4              | 263.4017    | 33.38          | -28.88      | 46.00          | 12.62       | 155         | 110       | Horizontal |
| 5              | 431.7809    | 24.15          | -24.22      | 46.00          | 21.85       | 344         | 301       | Horizontal |
| 6              | 925.7579    | 25.36          | -14.84      | 46.00          | 20.64       | 291         | 18        | Horizontal |

### Final Data List



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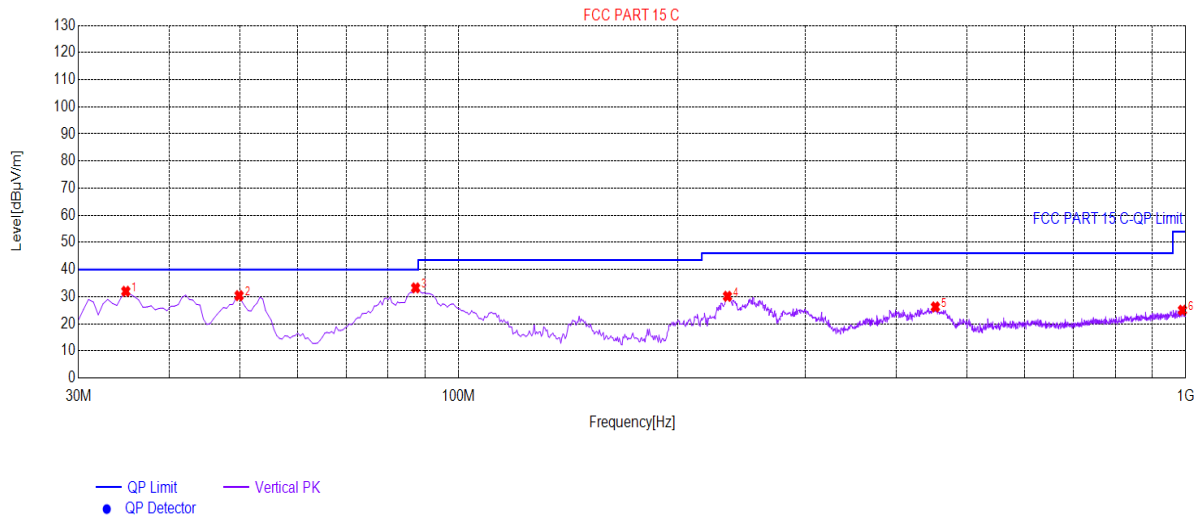
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### Test Graph



### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 34.8524     | 31.96          | -32.76      | 40.00          | 8.04        | 233         | 269       | Vertical |
| 2              | 49.8949     | 30.37          | -30.18      | 40.00          | 9.63        | 209         | 297       | Vertical |
| 3              | 87.2586     | 33.22          | -34.09      | 40.00          | 6.78        | 184         | 250       | Vertical |
| 4              | 234.2871    | 30.13          | -29.81      | 46.00          | 15.87       | 305         | 16        | Vertical |
| 5              | 452.6463    | 26.23          | -23.78      | 46.00          | 19.77       | 311         | 68        | Vertical |
| 6              | 989.8099    | 24.99          | -13.99      | 54.00          | 29.01       | 150         | 192       | Vertical |

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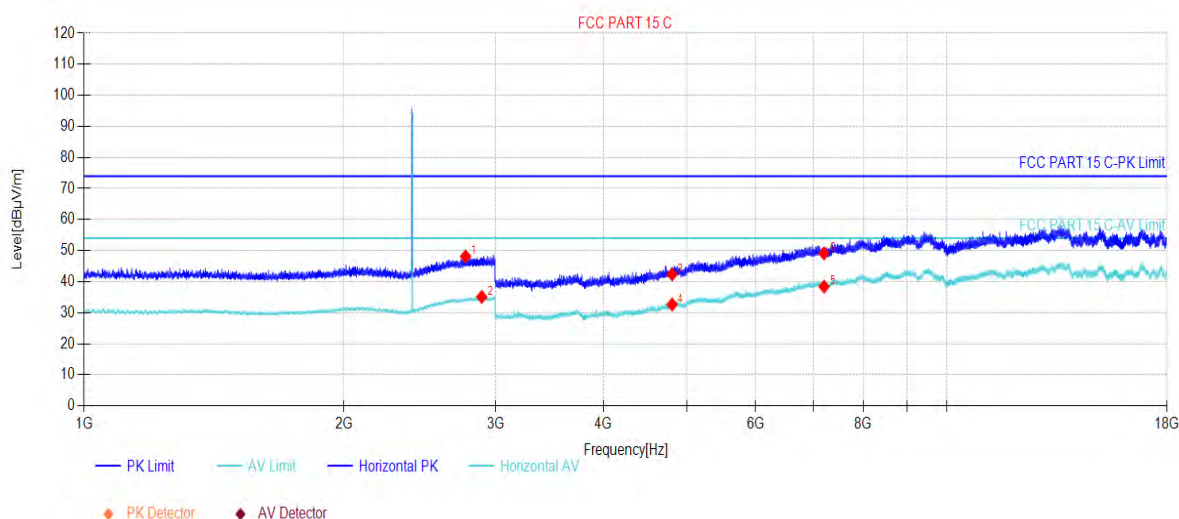
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### 4.9.2 Transmitter Emission above 1GHz

#### 4.9.2.1 BLE\_1M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2768.176    | 48.13          | 6.40        | 74.00          | 25.87       | 146         | 262       | Horizontal |
| 2              | 2890.389    | 35.09          | 6.93        | 54.00          | 18.91       | 178         | 245       | Horizontal |
| 3              | 4804.000    | 42.33          | -10.62      | 74.00          | 31.67       | 185         | 115       | Horizontal |
| 4              | 4804.000    | 32.65          | -10.62      | 54.00          | 21.35       | 165         | 16        | Horizontal |
| 5              | 7206.000    | 38.42          | -2.56       | 54.00          | 15.58       | 147         | 325       | Horizontal |
| 6              | 7206.000    | 49.13          | -2.56       | 74.00          | 24.87       | 169         | 192       | Horizontal |

#### Final Data List

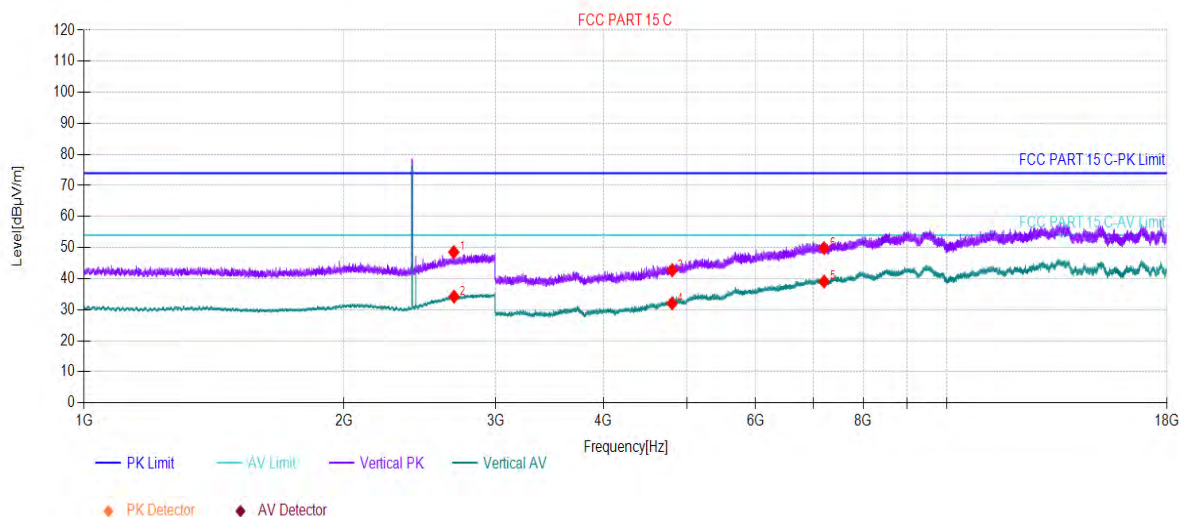


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### 4.9.2.2 BLE\_1M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2682.368    | 48.56          | 5.63        | 74.00          | 25.44       | 248         | 36        | Vertical |
| 2              | 2684.368    | 34.25          | 5.64        | 54.00          | 19.75       | 269         | 92        | Vertical |
| 3              | 4804.000    | 42.67          | -10.62      | 74.00          | 31.33       | 247         | 82        | Vertical |
| 4              | 4804.000    | 32.04          | -10.62      | 54.00          | 21.96       | 248         | 126       | Vertical |
| 5              | 7206.000    | 39.07          | -2.56       | 54.00          | 14.93       | 269         | 247       | Vertical |
| 6              | 7206.000    | 49.85          | -2.56       | 74.00          | 24.15       | 274         | 302       | Vertical |

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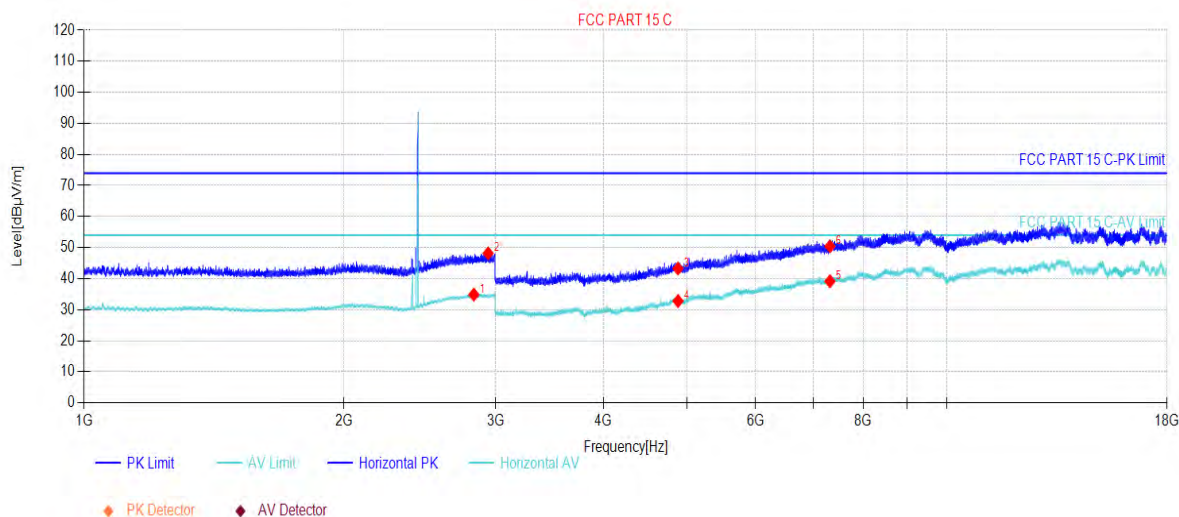
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### 4.9.2.3 BLE\_1M\_Channel 19

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2830.183    | 34.85          | 6.80        | 54.00          | 19.15       | 164         | 288       | Horizontal |
| 2              | 2939.994    | 48.17          | 7.13        | 74.00          | 25.83       | 168         | 59        | Horizontal |
| 3              | 4880.000    | 43.26          | -10.38      | 74.00          | 30.74       | 147         | 357       | Horizontal |
| 4              | 4880.000    | 32.80          | -10.38      | 54.00          | 21.20       | 132         | 126       | Horizontal |
| 5              | 7320.000    | 39.17          | -2.51       | 54.00          | 14.83       | 174         | 225       | Horizontal |
| 6              | 7320.000    | 50.42          | -2.51       | 74.00          | 23.58       | 165         | 192       | Horizontal |

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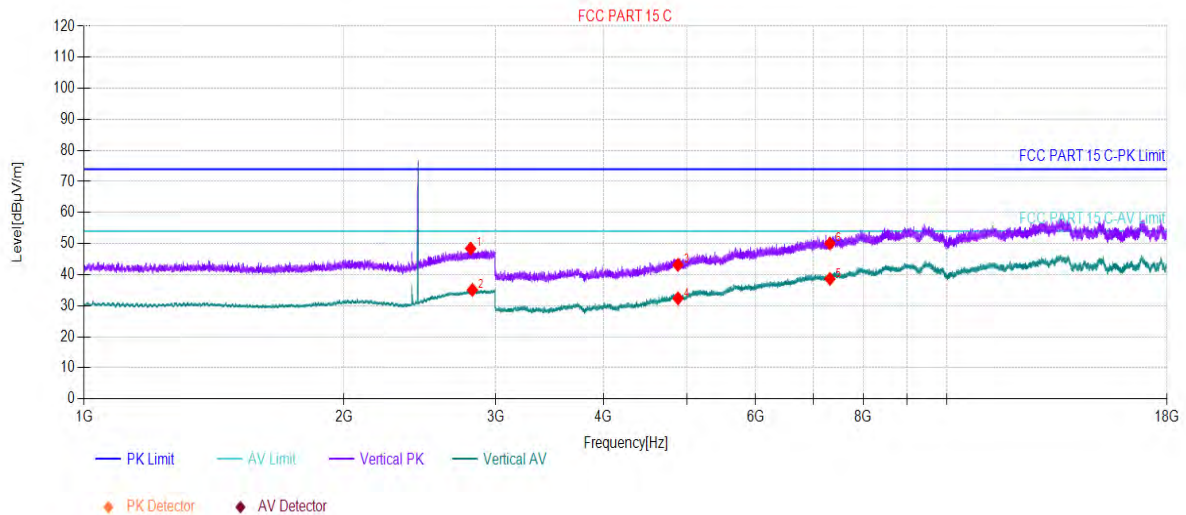
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### 4.9.2.4 BLE\_1M\_Channel 19

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2806.180    | 48.44          | 6.74        | 74.00          | 25.56       | 246         | 19        | Vertical |
| 2              | 2818.781    | 35.09          | 6.77        | 54.00          | 18.91       | 274         | 154       | Vertical |
| 3              | 4880.000    | 43.14          | -10.38      | 74.00          | 30.86       | 269         | 59        | Vertical |
| 4              | 4880.000    | 32.36          | -10.38      | 54.00          | 21.64       | 274         | 136       | Vertical |
| 5              | 7320.000    | 38.63          | -2.51       | 54.00          | 15.37       | 241         | 3         | Vertical |
| 6              | 7320.000    | 50.04          | -2.51       | 74.00          | 23.96       | 261         | 268       | Vertical |

#### Final Data List

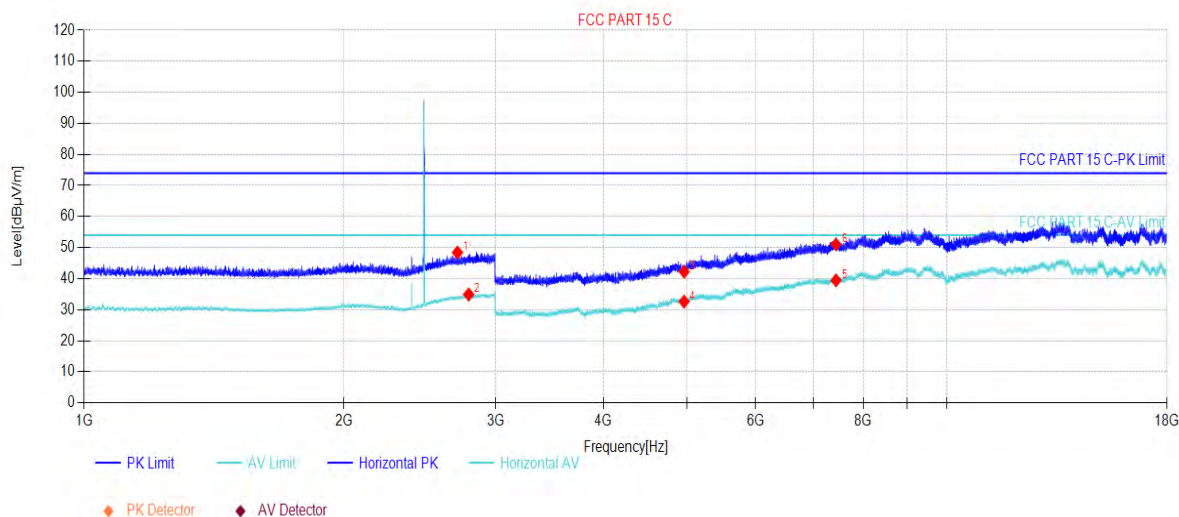


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### 4.9.2.5 BLE\_1M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2709.170    | 48.42          | 5.79        | 74.00          | 25.58       | 174         | 53        | Horizontal |
| 2              | 2790.979    | 34.91          | 6.64        | 54.00          | 19.09       | 168         | 42        | Horizontal |
| 3              | 4960.000    | 42.27          | -10.07      | 74.00          | 31.73       | 147         | 25        | Horizontal |
| 4              | 4960.000    | 32.63          | -10.07      | 54.00          | 21.37       | 174         | 125       | Horizontal |
| 5              | 7440.000    | 39.45          | -1.94       | 54.00          | 14.55       | 162         | 169       | Horizontal |
| 6              | 7440.000    | 51.04          | -1.94       | 74.00          | 22.96       | 174         | 257       | Horizontal |

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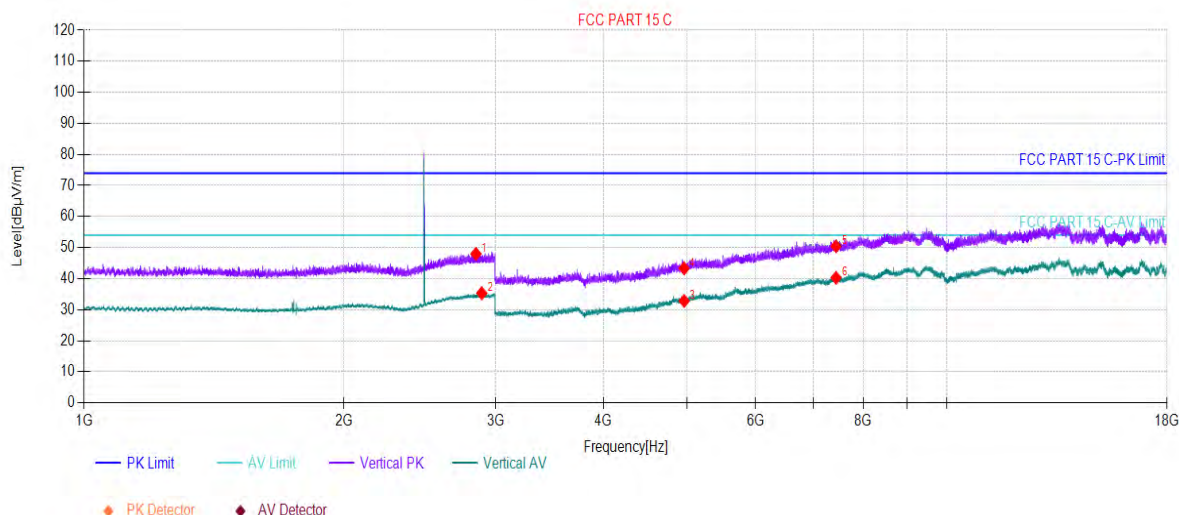
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### 4.9.2.6 BLE\_1M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2845.984    | 47.98          | 6.83        | 74.00          | 26.02       | 244         | 328       | Vertical |
| 2              | 2890.589    | 35.31          | 6.93        | 54.00          | 18.69       | 268         | 227       | Vertical |
| 3              | 4960.000    | 32.84          | -10.07      | 54.00          | 21.16       | 174         | 148       | Vertical |
| 4              | 4960.000    | 43.34          | -10.07      | 74.00          | 30.66       | 162         | 158       | Vertical |
| 5              | 7440.000    | 50.45          | -1.94       | 74.00          | 23.55       | 274         | 180       | Vertical |
| 6              | 7440.000    | 40.28          | -1.94       | 54.00          | 13.72       | 284         | 125       | Vertical |

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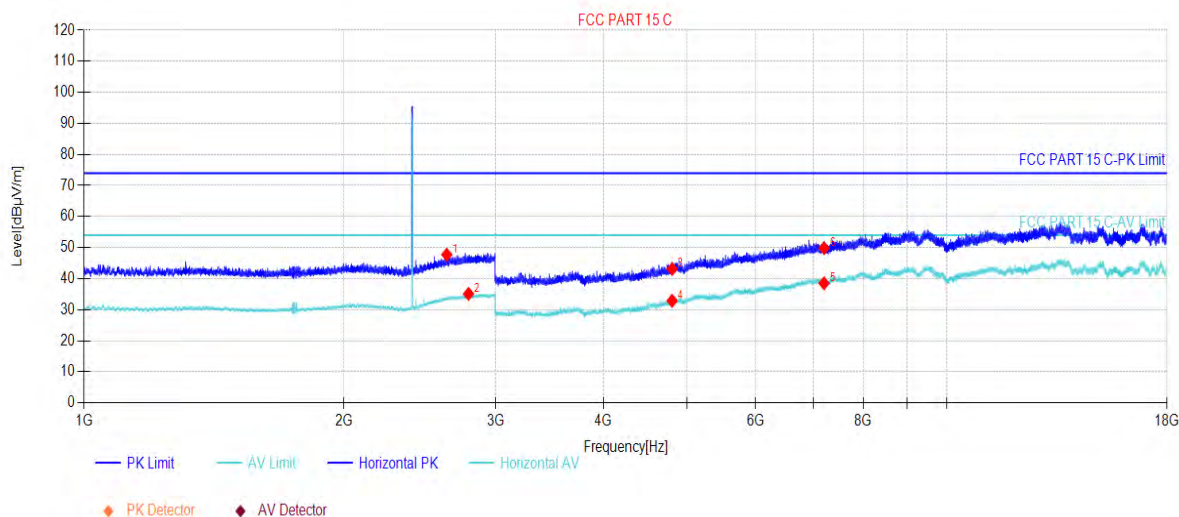
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### 4.9.2.7 BLE\_2M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2632.763    | 47.71          | 5.42        | 74.00          | 26.29       | 113         | 322       | Horizontal |
| 2              | 2790.179    | 35.08          | 6.63        | 54.00          | 18.92       | 136         | 226       | Horizontal |
| 3              | 4804.000    | 43.14          | -10.62      | 74.00          | 30.86       | 187         | 137       | Horizontal |
| 4              | 4804.000    | 32.89          | -10.62      | 54.00          | 21.11       | 158         | 213       | Horizontal |
| 5              | 7206.000    | 38.52          | -2.56       | 54.00          | 15.48       | 186         | 324       | Horizontal |
| 6              | 7206.000    | 49.87          | -2.56       | 74.00          | 24.13       | 187         | 70        | Horizontal |

#### Final Data List



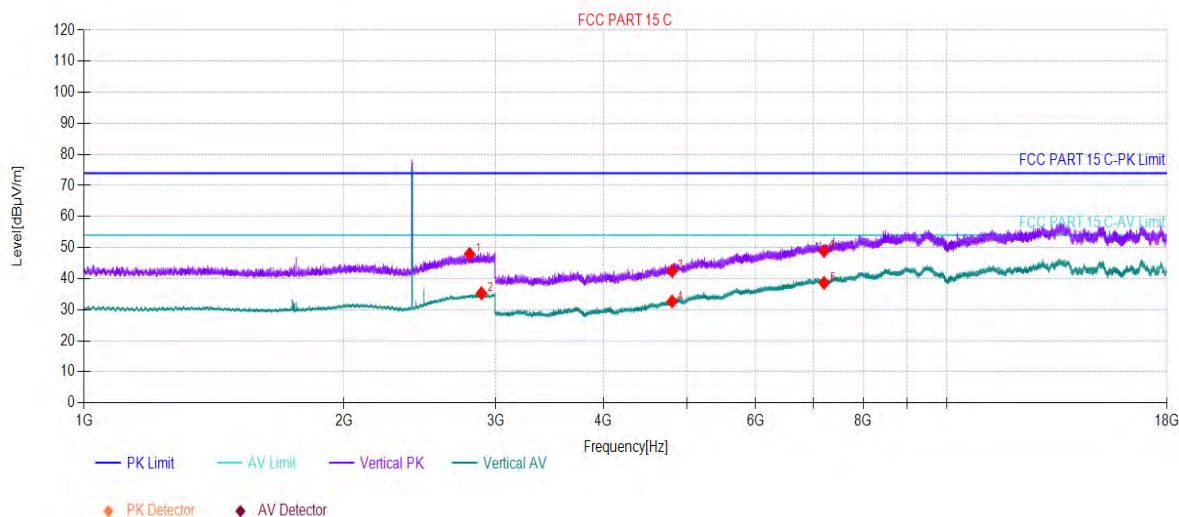
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### 4.9.2.8 BLE\_2M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2798.379    | 47.98          | 6.71        | 74.00          | 26.02       | 241         | 261       | Vertical |
| 2              | 2888.988    | 35.30          | 6.93        | 54.00          | 18.70       | 267         | 120       | Vertical |
| 3              | 4804.000    | 42.46          | -10.62      | 74.00          | 31.54       | 274         | 53        | Vertical |
| 4              | 4804.000    | 32.66          | -10.62      | 54.00          | 21.34       | 264         | 65        | Vertical |
| 5              | 7206.000    | 38.62          | -2.56       | 54.00          | 15.38       | 241         | 124       | Vertical |
| 6              | 7206.000    | 48.89          | -2.56       | 74.00          | 25.11       | 288         | 76        | Vertical |

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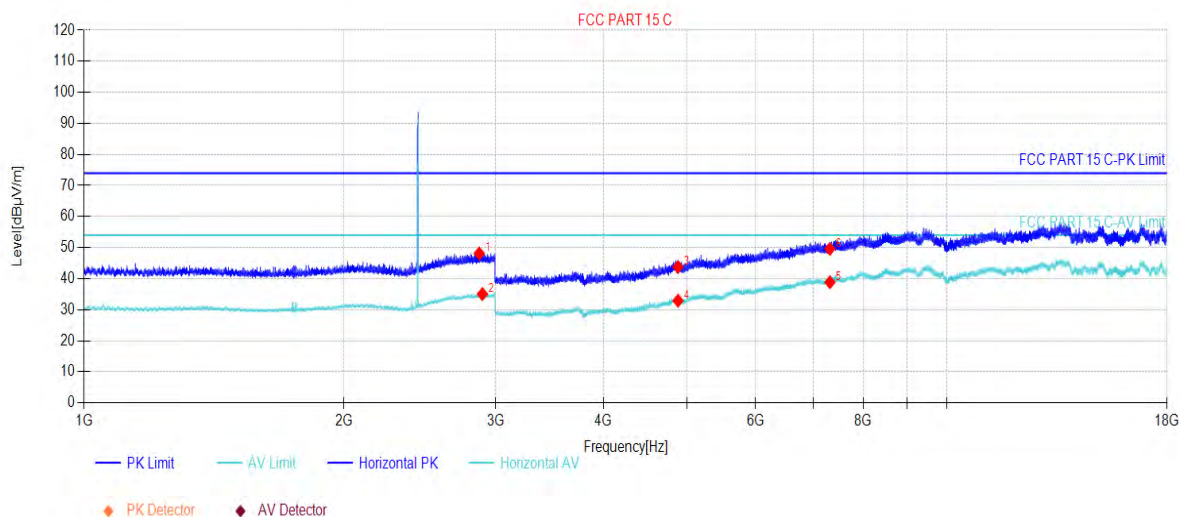
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### 4.9.2.9 BLE\_2M\_Channel 19

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2871.187    | 48.10          | 6.89        | 74.00          | 25.90       | 162         | 80        | Horizontal |
| 2              | 2895.589    | 35.05          | 6.94        | 54.00          | 18.95       | 174         | 35        | Horizontal |
| 3              | 4880.000    | 43.77          | -10.38      | 74.00          | 30.23       | 162         | 92        | Horizontal |
| 4              | 4880.000    | 32.92          | -10.38      | 54.00          | 21.08       | 174         | 0         | Horizontal |
| 5              | 7320.000    | 38.86          | -2.51       | 54.00          | 15.14       | 165         | 92        | Horizontal |
| 6              | 7320.000    | 49.63          | -2.51       | 74.00          | 24.37       | 184         | 26        | Horizontal |

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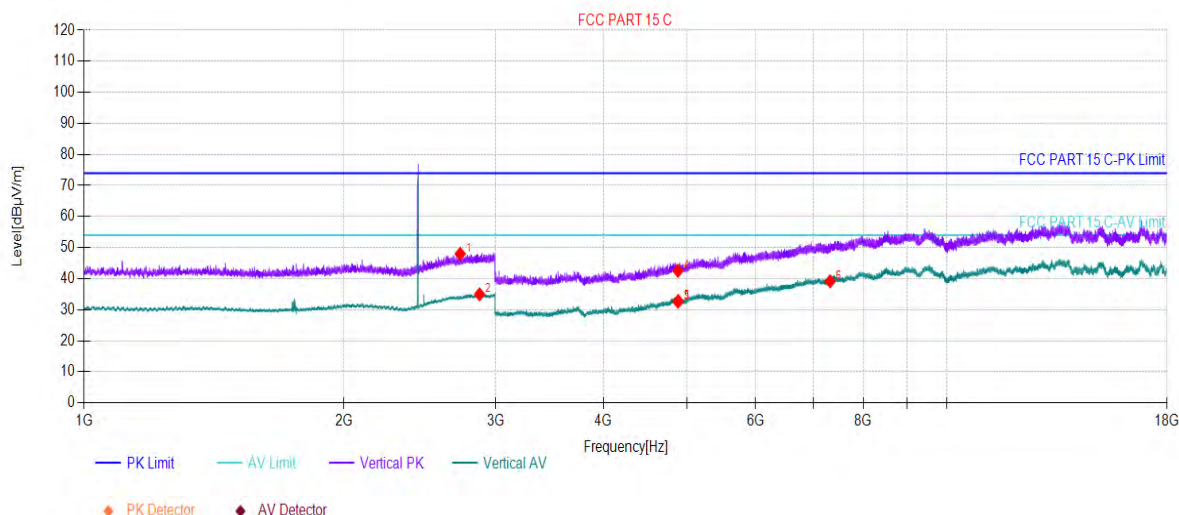
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### 4.9.2.10 BLE\_2M\_Channel 19

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2729.573    | 48.02          | 6.00        | 74.00          | 25.98       | 262         | 24        | Vertical |
| 2              | 2873.587    | 34.96          | 6.89        | 54.00          | 19.04       | 261         | 149       | Vertical |
| 3              | 4880.000    | 32.56          | -10.38      | 54.00          | 21.44       | 245         | 169       | Vertical |
| 4              | 4880.000    | 42.52          | -10.38      | 74.00          | 31.48       | 255         | 214       | Vertical |
| 5              | 4882.000    | 32.84          | -10.38      | 54.00          | 21.16       | 284         | 5         | Vertical |
| 6              | 7323.000    | 39.17          | -2.49       | 54.00          | 14.83       | 288         | 224       | Vertical |

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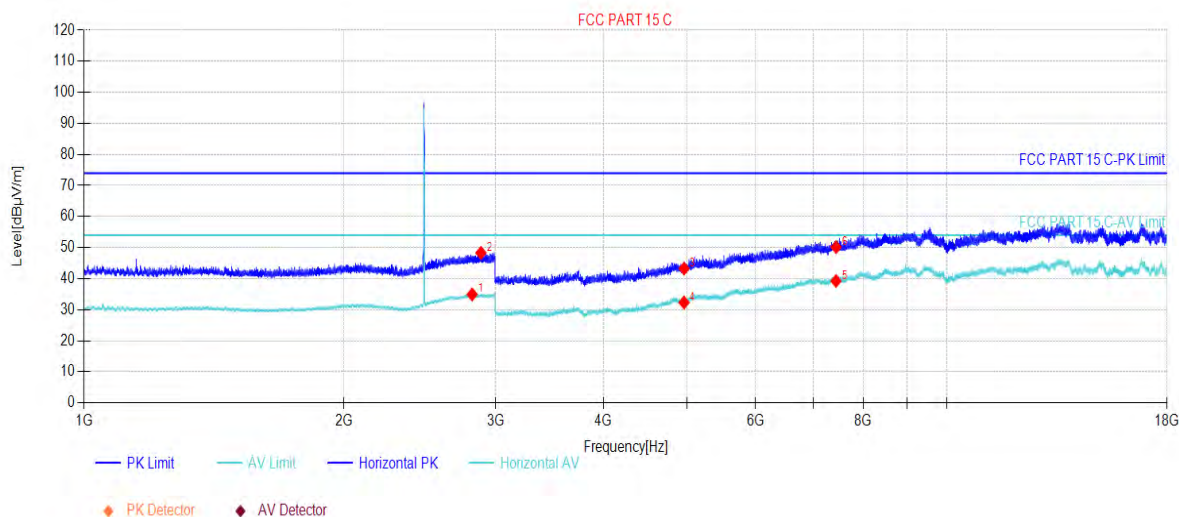
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### 4.9.2.11 BLE\_2M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2817.181    | 34.92          | 6.77        | 54.00          | 19.08       | 165         | 165       | Horizontal |
| 2              | 2884.188    | 48.30          | 6.92        | 74.00          | 25.70       | 164         | 294       | Horizontal |
| 3              | 4960.000    | 43.28          | -10.07      | 74.00          | 30.72       | 165         | 171       | Horizontal |
| 4              | 4960.000    | 32.32          | -10.07      | 54.00          | 21.68       | 157         | 237       | Horizontal |
| 5              | 7440.000    | 39.25          | -1.94       | 54.00          | 14.75       | 155         | 237       | Horizontal |
| 6              | 7440.000    | 50.17          | -1.94       | 74.00          | 23.83       | 149         | 60        | Horizontal |

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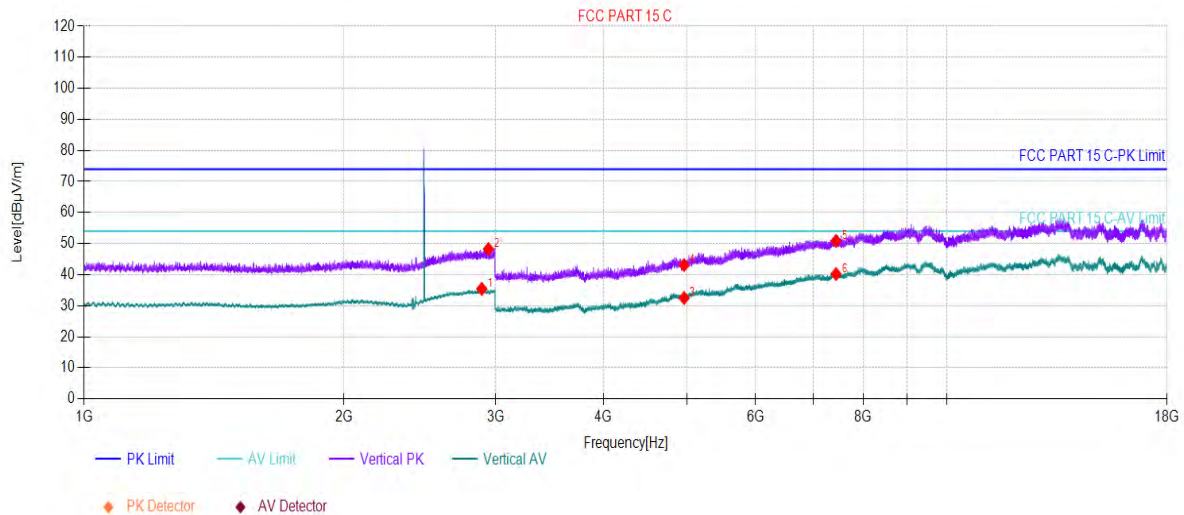
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### 4.9.2.12 BLE\_2M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2890.589    | 35.44          | 6.93        | 54.00          | 18.56       | 245         | 24        | Vertical |
| 2              | 2942.394    | 48.27          | 7.15        | 74.00          | 25.73       | 278         | 24        | Vertical |
| 3              | 4960.000    | 32.46          | -10.07      | 54.00          | 21.54       | 264         | 246       | Vertical |
| 4              | 4960.000    | 43.10          | -10.07      | 74.00          | 30.90       | 243         | 36        | Vertical |
| 5              | 7440.000    | 50.84          | -1.94       | 74.00          | 23.16       | 284         | 291       | Vertical |
| 6              | 7440.000    | 40.20          | -1.94       | 54.00          | 13.80       | 244         | 36        | Vertical |

#### Final Data List

##### Remark:

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



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### 4.10 Restricted bands around fundamental frequency

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

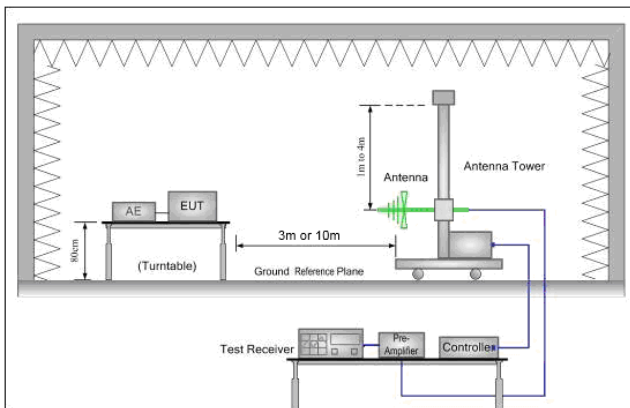


Figure 1. 30MHz to 1GHz

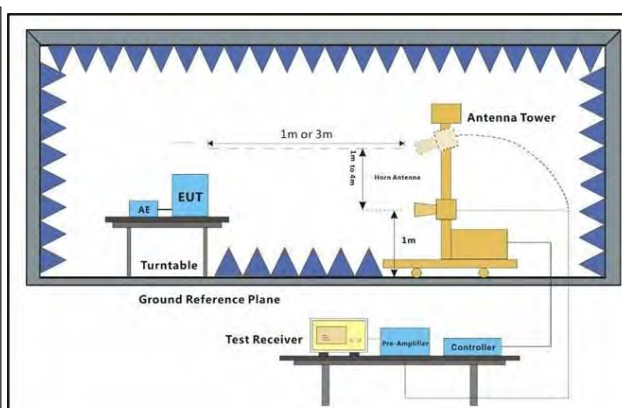


Figure 2. Above 1 GHz



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|                        |  |
|------------------------|--|
| Test Procedure:        | <ol style="list-style-type: none"> <li>For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol> |
| Exploratory Test Mode: | Transmitting with GFSK modulation.<br>Charge + Transmitting mode.  |
| Test Configuration:    | <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>RBW = 1 MHz</li> <li>VBW <math>\geq</math> 3 MHz</li> <li>Detector = Peak</li> <li>Sweep time = auto</li> <li>Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>RBW = 1 MHz</li> <li>VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>VBW <math>\geq</math> 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>   |
| Final Test Mode:       | Transmitting with GFSK modulation.<br>Pretest the EUT at Charge + Transmitting mode.<br>Only the worst case is recorded in the report.   |
| Instruments Used:      | Refer to section 6 for details   |
| Test Results:          | Pass   |



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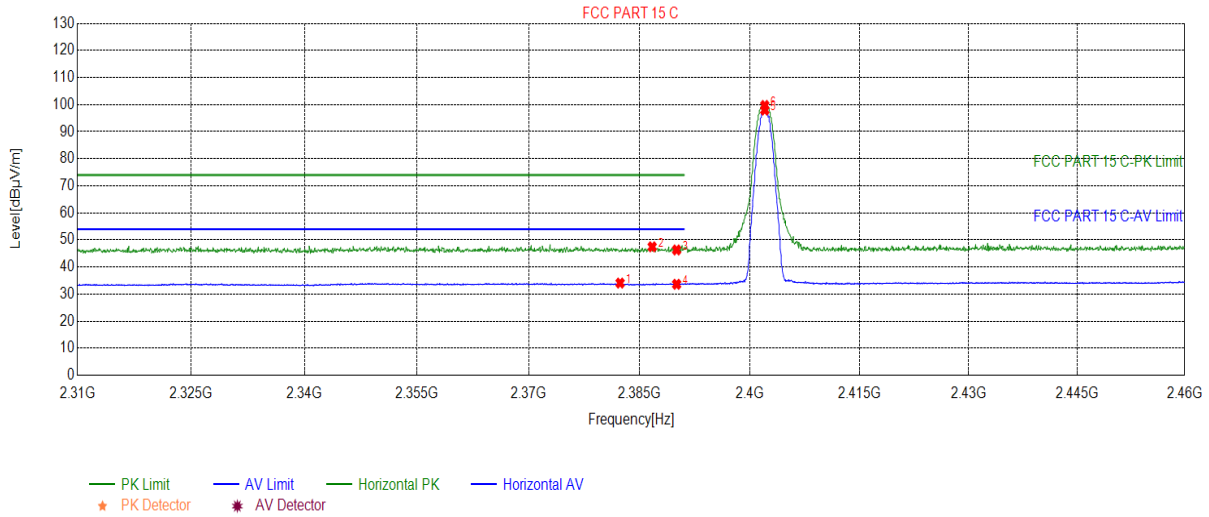
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### 4.10.1 Test Plots

#### 4.10.1.1 BLE 1M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2382.336    | 34.08          | 7.92        | 54.00          | 19.92       | 133         | 83        | Horizontal |
| 2              | 2386.688    | 47.47          | 7.88        | 74.00          | 26.53       | 127         | 319       | Horizontal |
| 3              | 2390.000    | 46.32          | 7.98        | 74.00          | 27.68       | 155         | 137       | Horizontal |
| 4              | 2390.000    | 33.64          | 7.98        | 54.00          | 20.36       | 172         | 41        | Horizontal |
| 5              | 2402.000    | 97.99          | 8.06        | 0.00           | -97.99      | 152         | 52        | Horizontal |
| 6              | 2402.000    | 99.67          | 8.06        | 0.00           | -99.67      | 168         | 60        | Horizontal |

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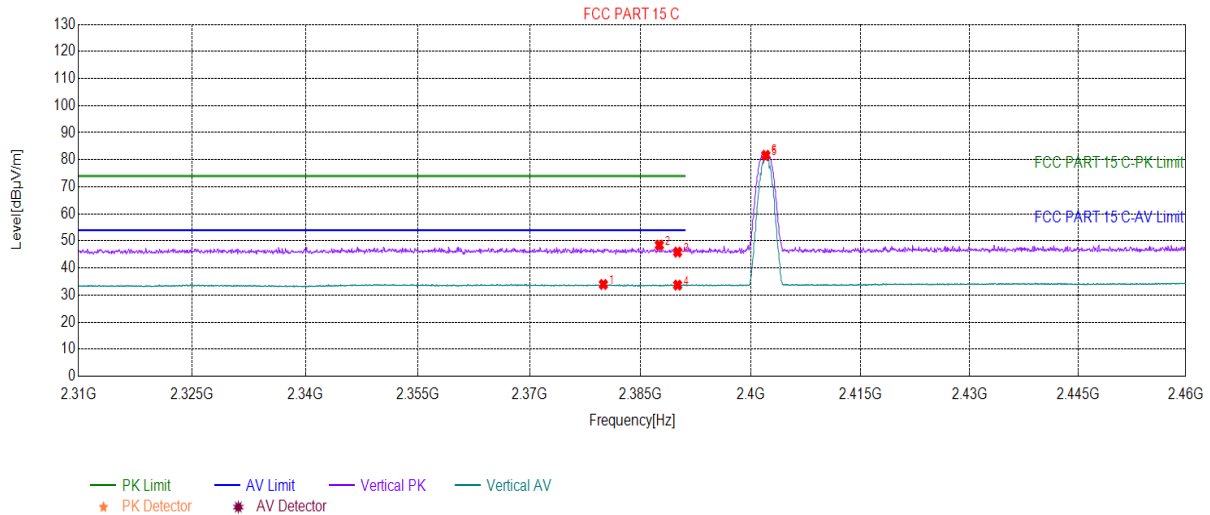
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### 4.10.1.2 BLE 1M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2379.935    | 33.94          | 8.00        | 54.00          | 20.06       | 210         | 289       | Vertical |
| 2              | 2387.513    | 48.46          | 7.91        | 74.00          | 25.54       | 222         | 210       | Vertical |
| 3              | 2390.000    | 45.89          | 7.98        | 74.00          | 28.11       | 264         | 258       | Vertical |
| 4              | 2390.000    | 33.70          | 7.98        | 54.00          | 20.30       | 274         | 206       | Vertical |
| 5              | 2402.000    | 81.64          | 8.06        | 0.00           | -81.64      | 253         | 331       | Vertical |
| 6              | 2402.000    | 82.24          | 8.06        | 0.00           | -82.24      | 206         | 328       | Vertical |

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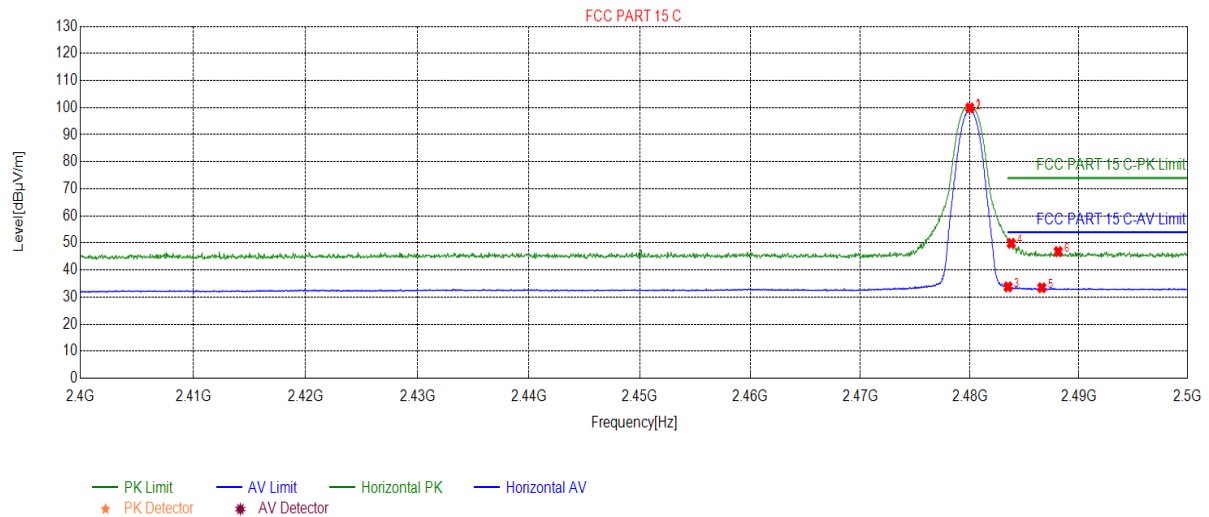
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### 4.10.1.3 BLE 1M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2480.000    | 99.89          | 8.54        | 0.00           | -99.89      | 111         | 64        | Horizontal |
| 2              | 2480.000    | 99.25          | 8.54        | 0.00           | -99.25      | 120         | 72        | Horizontal |
| 3              | 2483.500    | 33.77          | 8.50        | 54.00          | 20.23       | 141         | 75        | Horizontal |
| 4              | 2483.791    | 49.86          | 8.50        | 74.00          | 24.14       | 132         | 72        | Horizontal |
| 5              | 2486.593    | 33.45          | 8.53        | 54.00          | 20.55       | 156         | 68        | Horizontal |
| 6              | 2488.094    | 46.82          | 8.57        | 74.00          | 27.18       | 151         | 14        | Horizontal |

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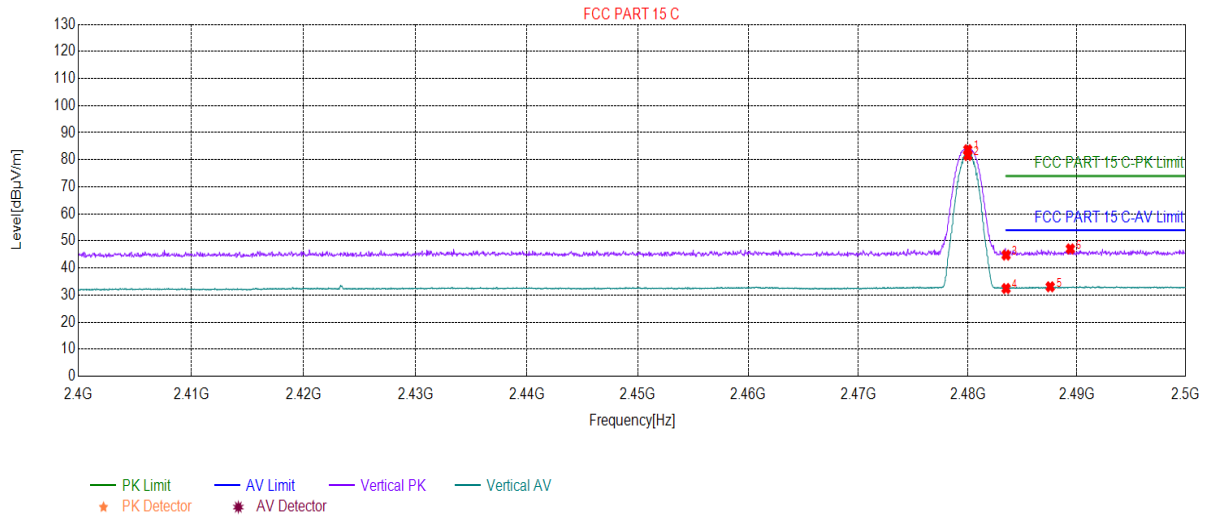
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### 4.10.1.4 BLE 1M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2480.000    | 83.70          | 8.54        | 0.00           | -83.70      | 282         | 196       | Vertical |
| 2              | 2480.000    | 81.56          | 8.54        | 0.00           | -81.56      | 255         | 165       | Vertical |
| 3              | 2483.500    | 44.79          | 8.50        | 74.00          | 29.21       | 261         | 62        | Vertical |
| 4              | 2483.500    | 32.44          | 8.50        | 54.00          | 21.56       | 201         | 149       | Vertical |
| 5              | 2487.543    | 33.08          | 8.56        | 54.00          | 20.92       | 244         | 172       | Vertical |
| 6              | 2489.394    | 47.07          | 8.61        | 74.00          | 26.93       | 315         | 281       | Vertical |

#### Final Data List



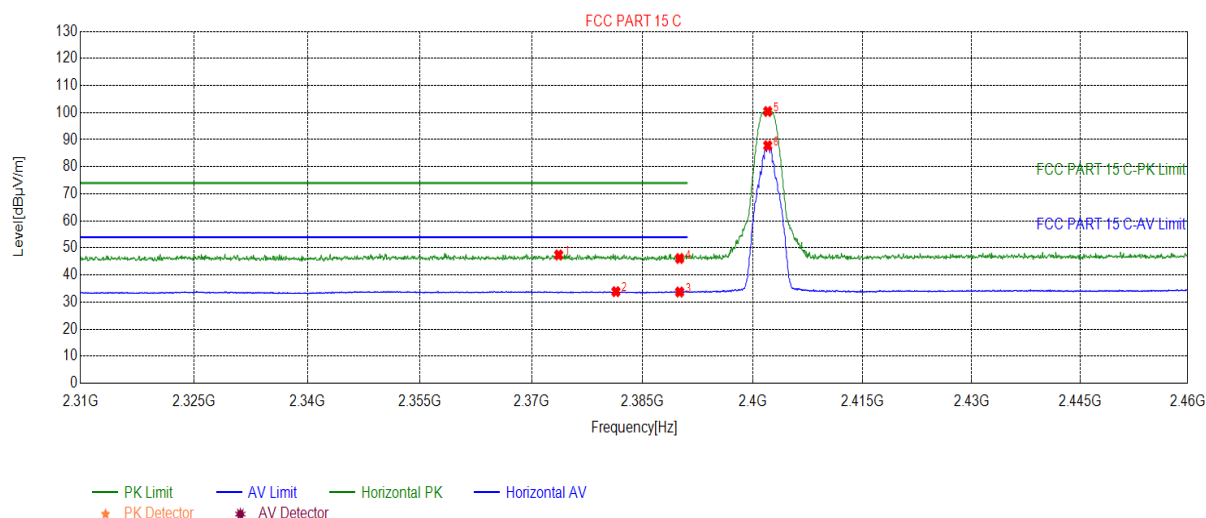
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### 4.10.1.5 BLE 2M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2373.631    | 47.41          | 7.98        | 74.00          | 26.59       | 122         | 87        | Horizontal |
| 2              | 2381.360    | 33.87          | 7.95        | 54.00          | 20.13       | 164         | 269       | Horizontal |
| 3              | 2390.000    | 33.73          | 7.98        | 54.00          | 20.27       | 151         | 296       | Horizontal |
| 4              | 2390.000    | 46.12          | 7.98        | 74.00          | 27.88       | 162         | 129       | Horizontal |
| 5              | 2402.000    | 100.41         | 8.06        | 0.00           | -100.41     | 174         | 63        | Horizontal |
| 6              | 2402.000    | 87.79          | 8.06        | 0.00           | -87.79      | 135         | 71        | Horizontal |

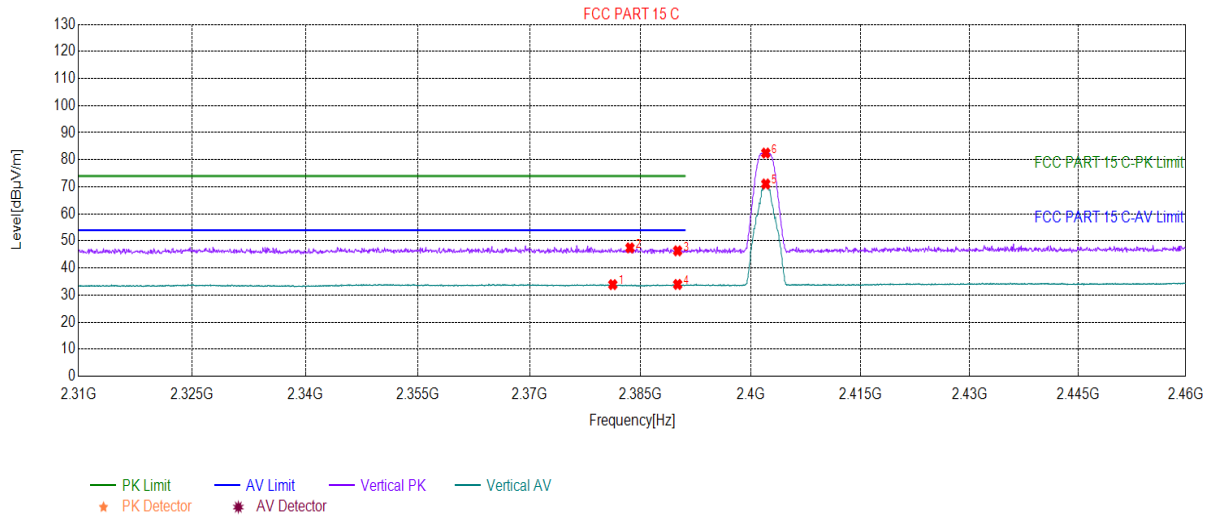
#### Final Data List





### 4.10.1.6 BLE 2M\_Channel 0

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2381.210    | 33.87          | 7.96        | 54.00          | 20.13       | 234         | 65        | Vertical |
| 2              | 2383.536    | 47.44          | 7.88        | 74.00          | 26.56       | 255         | 1         | Vertical |
| 3              | 2390.000    | 46.36          | 7.98        | 74.00          | 27.64       | 264         | 1         | Vertical |
| 4              | 2390.000    | 33.94          | 7.98        | 54.00          | 20.06       | 278         | 127       | Vertical |
| 5              | 2402.000    | 71.03          | 8.06        | 0.00           | -71.03      | 204         | 331       | Vertical |
| 6              | 2402.000    | 82.45          | 8.06        | 0.00           | -82.45      | 266         | 327       | Vertical |

#### Final Data List



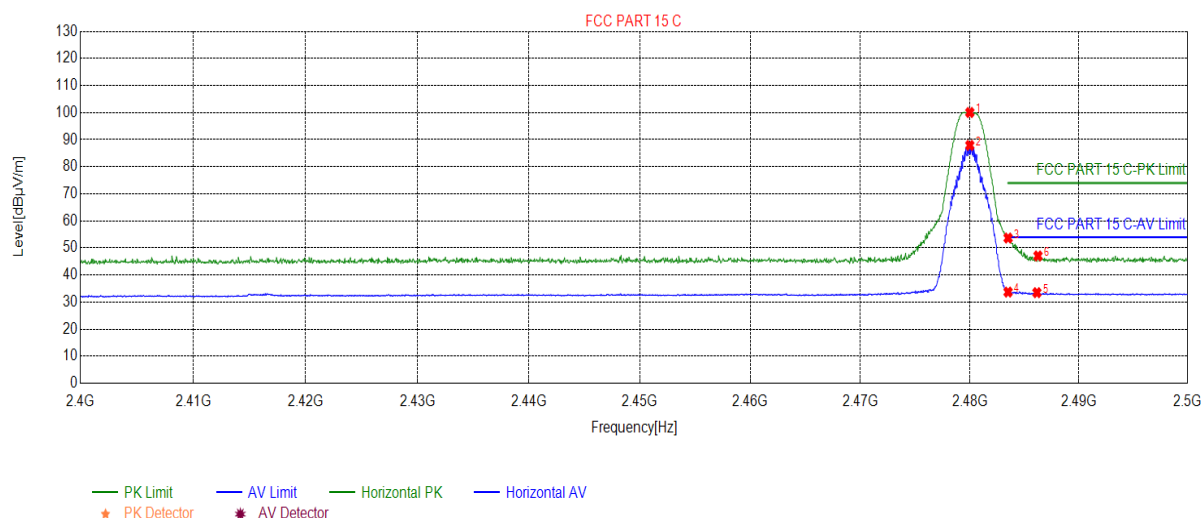
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### 4.10.1.7 BLE 2M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |            |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 2480.000    | 100.03         | 8.54        | 0.00           | -100.03     | 141         | 68        | Horizontal |
| 2              | 2480.000    | 87.88          | 8.54        | 0.00           | -87.88      | 155         | 64        | Horizontal |
| 3              | 2483.500    | 53.66          | 8.50        | 74.00          | 20.34       | 150         | 68        | Horizontal |
| 4              | 2483.500    | 33.71          | 8.50        | 54.00          | 20.29       | 174         | 110       | Horizontal |
| 5              | 2486.143    | 33.49          | 8.52        | 54.00          | 20.51       | 162         | 71        | Horizontal |
| 6              | 2486.243    | 47.06          | 8.52        | 74.00          | 26.94       | 144         | 64        | Horizontal |

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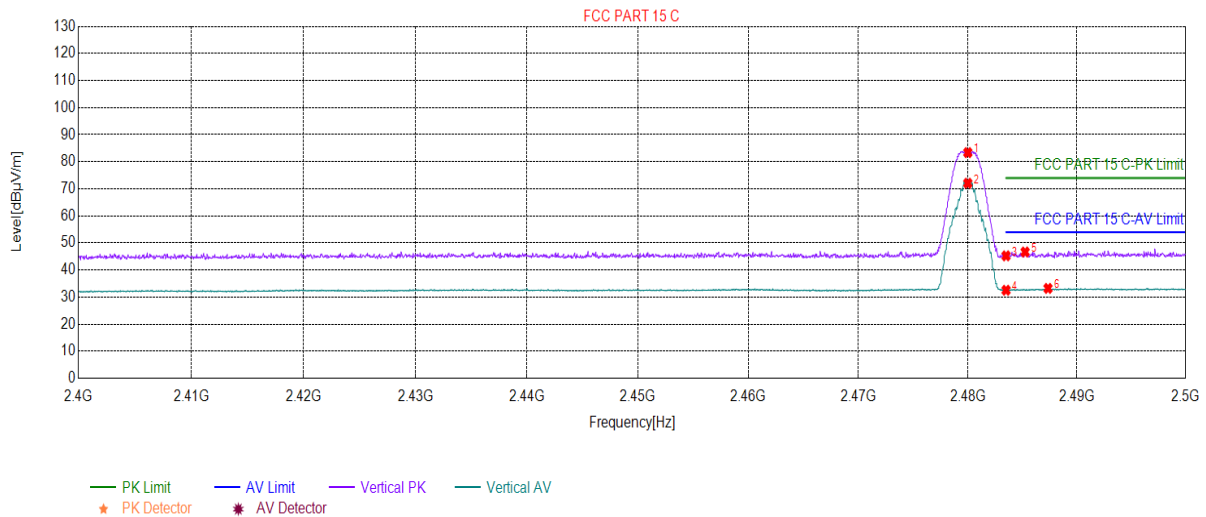


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### 4.10.1.8 BLE 2M\_Channel 39

#### Test Graph



#### Suspected List

| Suspected List |             |                |             |                |             |             |           |          |
|----------------|-------------|----------------|-------------|----------------|-------------|-------------|-----------|----------|
| NO.            | Freq. [MHz] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1              | 2480.000    | 83.37          | 8.54        | 0.00           | -83.37      | 274         | 211       | Vertical |
| 2              | 2480.000    | 72.06          | 8.54        | 0.00           | -72.06      | 238         | 146       | Vertical |
| 3              | 2483.500    | 45.25          | 8.50        | 74.00          | 28.75       | 312         | 138       | Vertical |
| 4              | 2483.500    | 32.54          | 8.50        | 54.00          | 21.46       | 261         | 126       | Vertical |
| 5              | 2485.242    | 46.67          | 8.49        | 74.00          | 27.33       | 255         | 99        | Vertical |
| 6              | 2487.343    | 33.22          | 8.55        | 54.00          | 20.78       | 201         | 20        | Vertical |

#### Final Data List

#### Remark:

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

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

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



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

Lab A:

| No. | Item                          | Measurement Uncertainty   |
|-----|-------------------------------|---------------------------|
| 1   | Total RF power, conducted     | $\pm 0.41\text{dB}$       |
| 2   | RF power density, conducted   | $\pm 1.96\text{dB}$       |
| 3   | Spurious emissions, conducted | $\pm 0.41\text{dB}$       |
| 4   | Radio Frequency               | $\pm 7.10 \times 10^{-8}$ |
| 5   | Duty Cycle                    | $\pm 0.49\%$              |
| 6   | Occupied Bandwidth            | $\pm 0.2\%$               |

Lab B:

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



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## 6 Equipment List

| RF conducted                    |  |           |               |                           |                               |
|---------------------------------|--|-----------|---------------|---------------------------|-------------------------------|
| Test Equipment                  | Manufacturer                             | Model No. | Inventory No. | Cal. Date<br>(yyyy-mm-dd) | Cal. Due date<br>(yyyy-mm-dd) |
| Signal Analyzer                 | Rohde & Schwarz                          | FSV       | W025-05       | 2020/4/16                 | 2021/4/15                     |
| DC Power Supply                 | Rohde & Schwarz                          | HMP2020   | W009-08       | 2020/7/15                 | 2021/7/15                     |
| Power Meter                     | Rohde & Schwarz                          | NRVS      | SEM014-02     | 2020/7/14                 | 2021/7/13                     |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | HTC-1     | W006-17       | 2020/4/21                 | 2021/4/20                     |

| CE Test System                 |               |             |               |            |              |
|--------------------------------|---------------|-------------|---------------|------------|--------------|
| Equipment                      | Manufacturer  | Model No.   | Inventory No. | Cal Date   | Cal Due Date |
| Shielding Room                 | Brilliant-emc | N/A         | XAW03-35-01   | 2019-09-11 | 2022-09-10   |
| Test receiver                  | ROHDE&SCHWARZ | ESR         | XAW01-08-01   | 2020-09-11 | 2021-09-10   |
| Artificial network             | ROHDE&SCHWARZ | ENV216      | XAW01-04-01   | 2020-08-04 | 2021-08-03   |
| Temperature and humidity meter | MingGao       | TH101B      | XAW01-01-01   | 2020-11-06 | 2021-11-05   |
| Measurement Software           | Tonscend      | TS+ CE V2.5 | XAW02-05-02   | NCR        | NCR          |



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| RSE Test System                     |                |                  |               |            |              |
|-------------------------------------|----------------|------------------|---------------|------------|--------------|
| Equipment                           | Manufacturer   | Model No.        | Inventory No. | Cal Date   | Cal Due Date |
| Semi-Anechoic Chamber               | Brilliant-emc  | N/A              | XAW03-35-01   | 2019-09-11 | 2022-09-10   |
| MXA signal analyzer                 | Keysight       | N9020A           | XAW01-06-01   | 2020-04-02 | 2021-04-01   |
| Test receiver                       | ROHDE&SCHWARZ  | ESR              | XAW01-08-01   | 2020-09-11 | 2021-09-10   |
| Receiving antenna (30MHz~3GHz)      | Schwarzbeck    | VULB 9163        | XAW01-09-01   | 2019-10-13 | 2021-10-12   |
| Receiving antenna (1GHz~18GHz)      | Schwarzbeck    | BBHA 9120D       | XAW01-09-02   | 2019-10-13 | 2021-10-12   |
| Receiving antenna (15GHz~40GHz)     | Schwarzbeck    | BBHA 9170        | XAW01-09-03   | 2019-10-13 | 2021-10-12   |
| Directional antenna rack controller | Max-Full       | MF-7802BS        | XAW03-03-01   | NCR        | NCR          |
| High-speed antenna rack controller  | Max-Full       | MF-7802          | XAW03-04-01   | NCR        | NCR          |
| Filter bank                         | Tonscend       | JS0806-F         | XAW03-05-01   | NCR        | NCR          |
| Filter bank                         | Tonscend       | JS0806s          | XAW03-05-02   | NCR        | NCR          |
| Amplifier                           | Tonscend       | TAP00903040      | XAW01-41-01   | 2020-10-26 | 2021-10-25   |
| Amplifier                           | Tonscend       | TAP01018048      | XAW01-41-02   | 2020-10-26 | 2021-10-25   |
| Amplifier                           | Tonscend       | TAP18040048      | XAW01-41-03   | 2020-10-27 | 2021-10-26   |
| Amplifier                           | Shanghai Steed | YX28980930       | XAW01-41-06   | 2020-10-26 | 2021-10-25   |
| Temperature and humidity meter      | MingGao        | TH101B           | XAW01-01-01   | 2020-11-06 | 2021-11-05   |
| Measurement Software                | Tonscend       | TS+ RSE V3.0.0.2 | XAW02-05-01   | NCR        | NCR          |



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A PCE&DSS&DTS&NII Setup Photos.

The End



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