

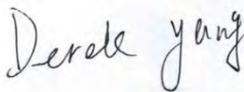
# FCC TEST REPORT

**Application No.:** AR/2020/C0002  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** M2101K9G  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZK9G  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2020/12/21  
**Date of Test:** 2020/12/21 to 2021/1/18  
**Date of Issue:** 2021/1/19

<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		2021-01-19		Original

Authorized for issue by:			
Tested By		 _____ (Dee Zheng) /Project Engineer	
Checked By		 _____ (David Chen) /Reviewer	



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## 2 Test Summary

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



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### 3 General Information

#### 3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 3.2 Test Location

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



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### 3.3 Test Facility

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

- **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.



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### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2101K9G
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$ , where: - $f_c$ = "Operating Frequency" in MHz, - $N$ = "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:	PIFA Antenna
Antenna Gain:	-1.8dBi(ANT1);-0.9 dBi(ANT2);

**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:  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:  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 -1.8dBi(ANT1);-0.9dBi(ANT2).</p>	



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## 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>		



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<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting with GFSK modulation.          Charge +Transmitting mode.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details.</p>
<p>Test Results:</p>	<p>Pass</p>

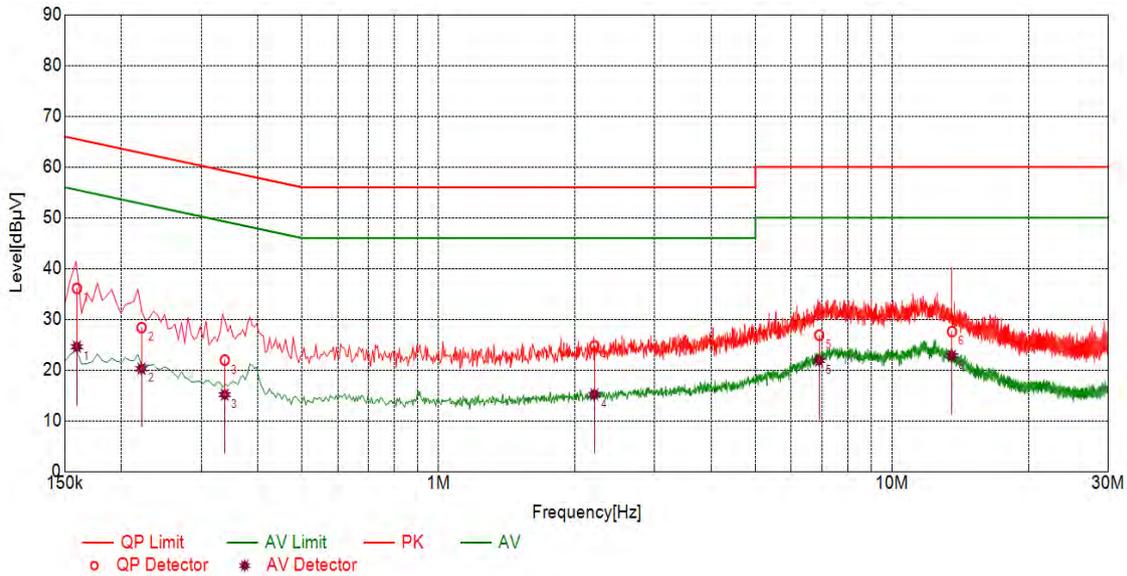


**Measurement Data**

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:**



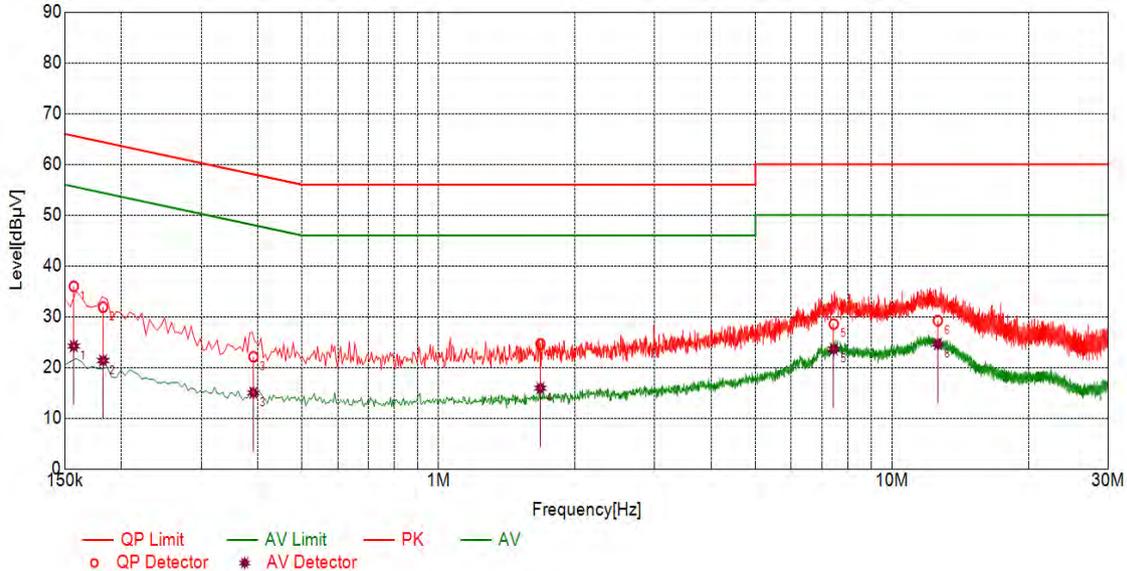
**Test Graph**

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	0.1596	10.10	36.08	65.49	29.41	24.59	55.49	30.90
2	0.2215	10.10	28.37	62.76	34.39	20.27	52.76	32.49
3	0.3381	10.10	21.96	59.25	37.29	15.14	49.25	34.11
4	2.2081	10.10	24.75	56.00	31.25	15.18	46.00	30.82
5	6.9129	10.10	26.87	60.00	33.13	21.87	50.00	28.13
6	13.5620	10.11	27.59	60.00	32.41	22.81	50.00	27.19



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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	0.1571	10.10	35.97	65.61	29.64	24.19	55.61	31.42
2	0.1823	10.10	31.87	64.38	32.51	21.36	54.38	33.02
3	0.3910	10.10	22.10	58.04	35.94	14.99	48.04	33.05
4	1.6787	10.10	24.64	56.00	31.36	15.91	46.00	30.09
5	7.4422	10.10	28.53	60.00	31.47	23.59	50.00	26.41
6	12.6258	10.11	29.22	60.00	30.78	24.59	50.00	25.41

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	ANT1:CH0, CH19, CH39	61.57
BLE_2M	ANT1:CH0, CH19, CH39	32.41
BLE_1M	ANT2:CH0, CH19, CH39	61.75
BLE_2M	ANT2:CH0, CH19, CH39	32.41



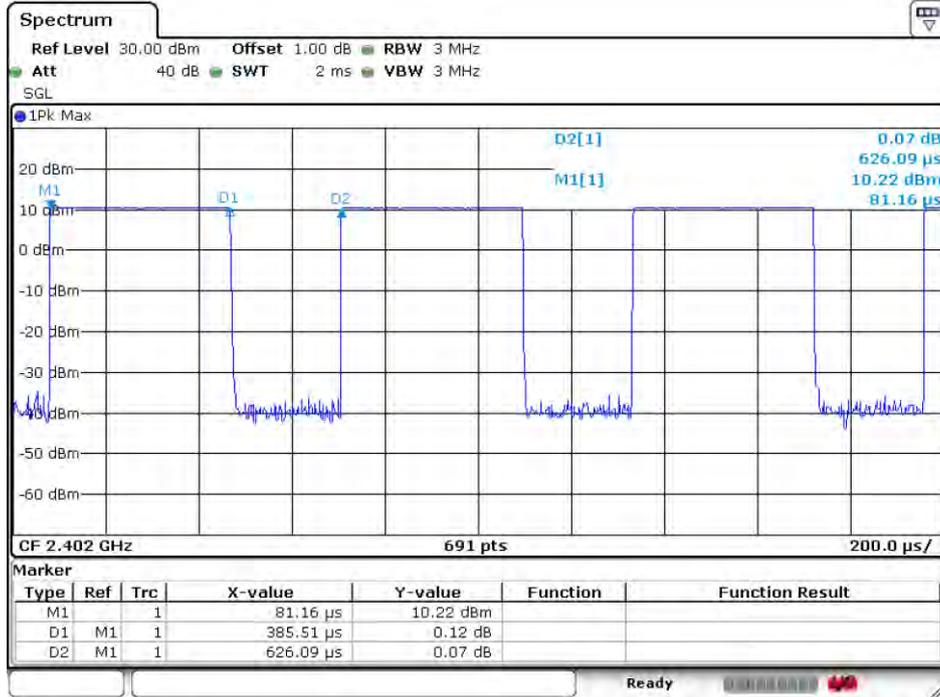
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### 4.3.2 Test Plots

#### 4.3.2.1 ANT1

##### 4.3.2.1.1 BLE\_1M

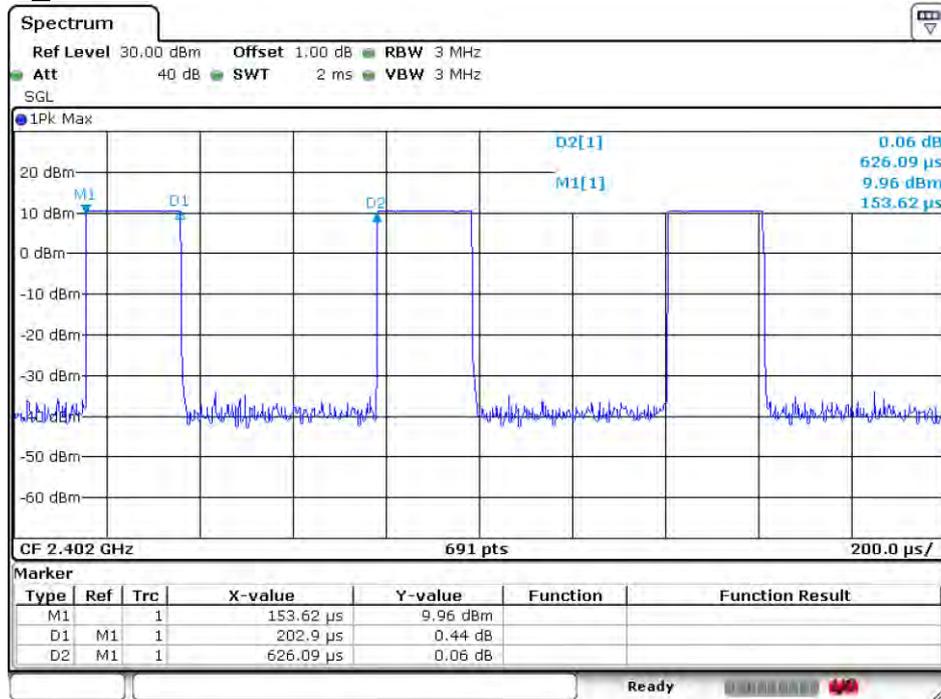


Date: 8 JAN 2021 10:02:31



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### 4.3.2.1.2 BLE\_2M



Date: 8 JAN 2021 10:02:07

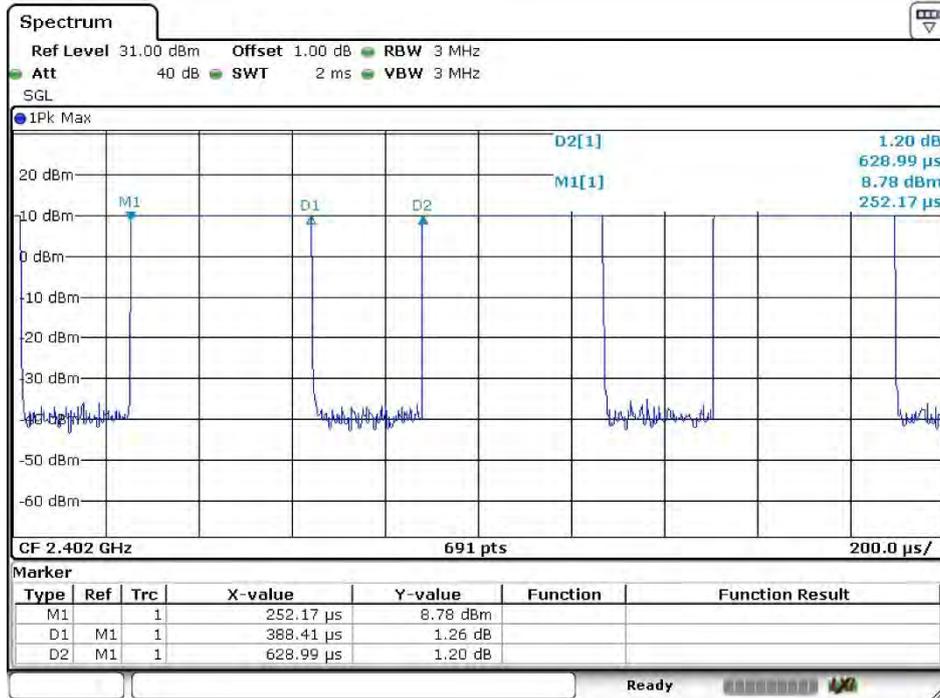


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### 4.3.2.2 ANT2

#### 4.3.2.2.1 BLE\_1M

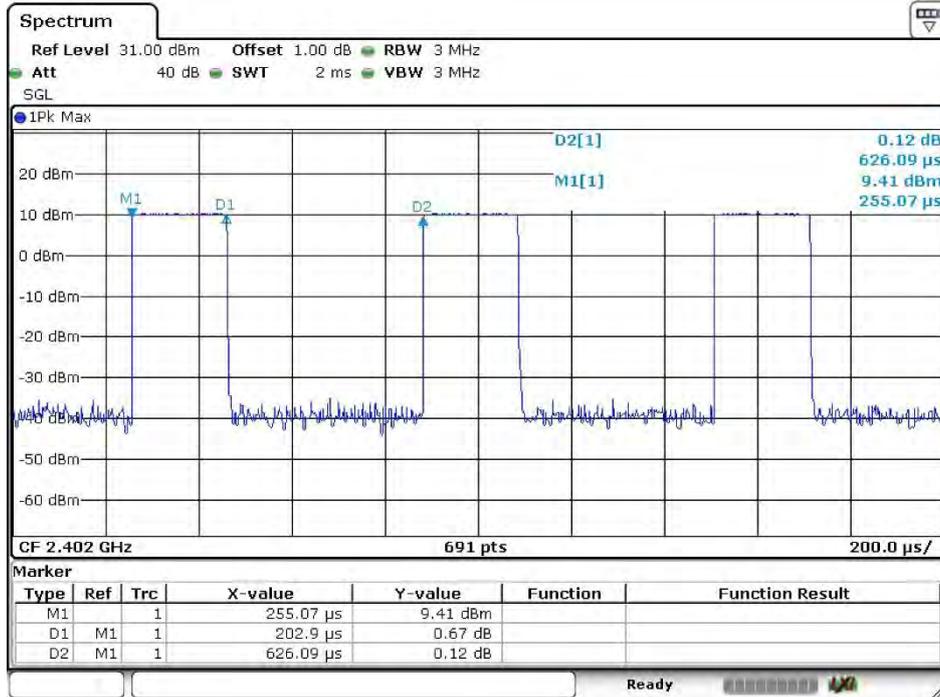


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### 4.3.2.2.2 BLE\_2M



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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 5.10 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:**

**ANT1:**

GFSK_1M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.44	30.00	Pass
Middle	11.36	30.00	Pass
Highest	9.88	30.00	Pass

GFSK_2M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.54	30.00	Pass
Middle	11.48	30.00	Pass
Highest	9.91	30.00	Pass

**ANT2:**

GFSK_1M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.21	30.00	Pass
Middle	10.83	30.00	Pass
Highest	8.52	30.00	Pass

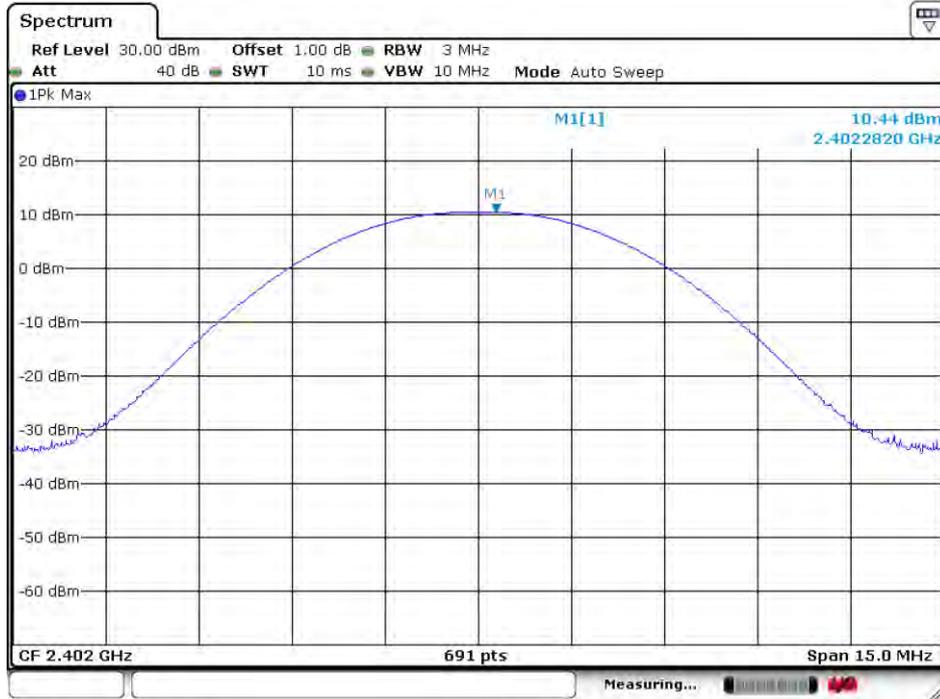
GFSK_2M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.28	30.00	Pass
Middle	10.92	30.00	Pass
Highest	8.58	30.00	Pass



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## 4.4.2 Test Plots

### 4.4.2.1 GFSK 1M\_ANT1\_Lowest Channel



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### 4.4.2.2 GFSK 1M\_ANT1\_Middle Channel



Date: 8 JAN 2021 09:28:52

### 4.4.2.3 GFSK 1M\_ANT1\_Highest Channel



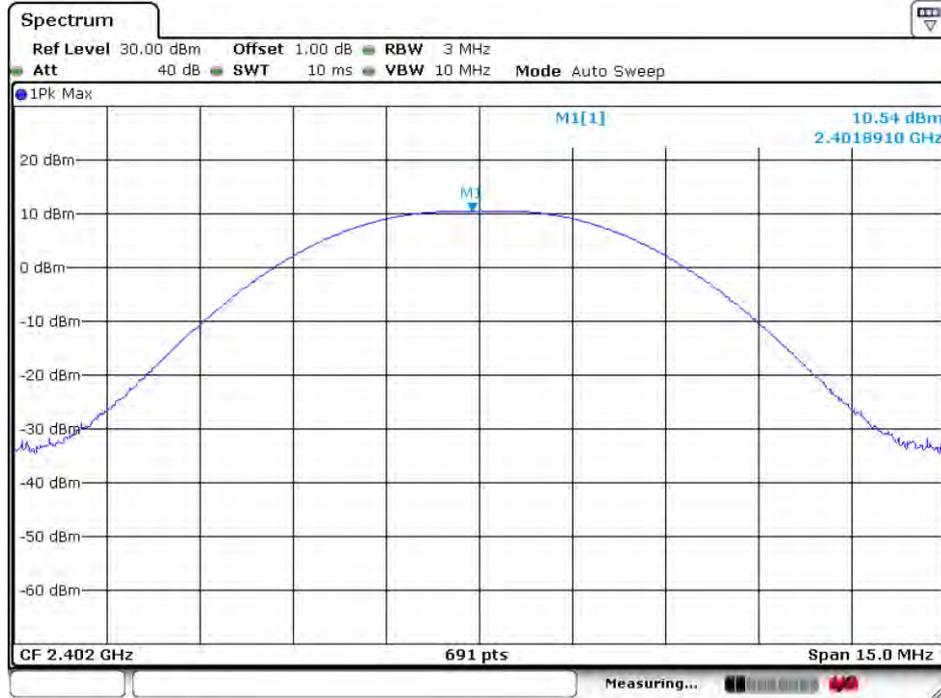
Date: 8 JAN 2021 09:35:55



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### 4.4.2.4 GFSK 2M\_ANT1\_Lowest Channel



Date: 8 JAN 2021 09:36:32

### 4.4.2.5 GFSK 2M\_ANT1\_Middle Channel



Date: 8 JAN 2021 09:36:46



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### 4.4.2.6 GFSK 2M\_ANT1\_Highest Channel



Date: 8 JAN 2021 09:37:02

### 4.4.2.7 GFSK 1M\_ANT2\_Lowest Channel

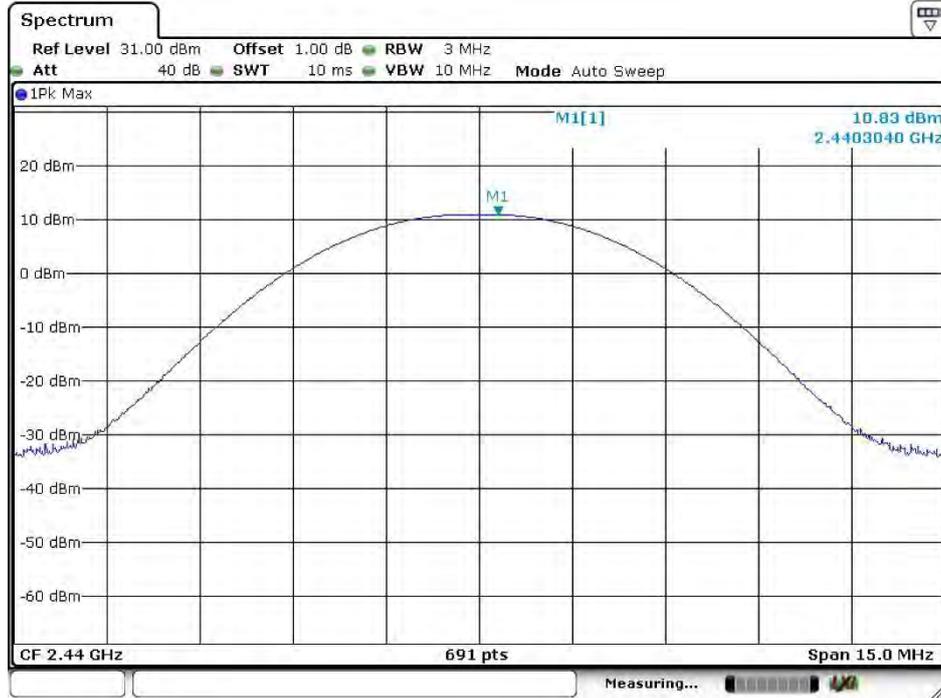


Date: 14 JAN 2021 11:25:25



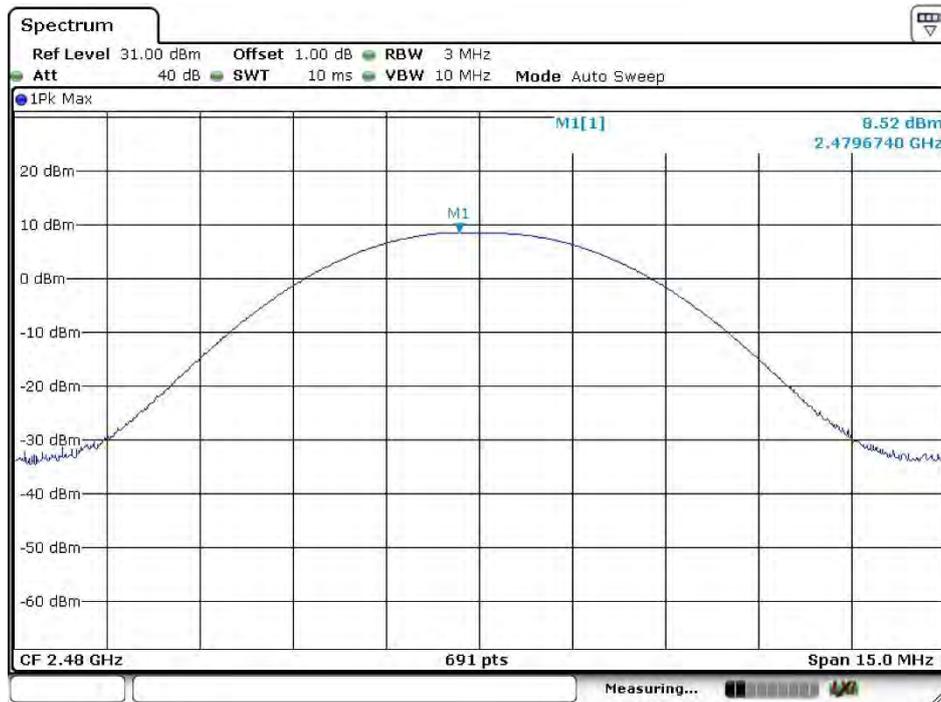
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### 4.4.2.8 GFSK 1M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:26:08

### 4.4.2.9 GFSK 1M\_ANT2\_Highest Channel

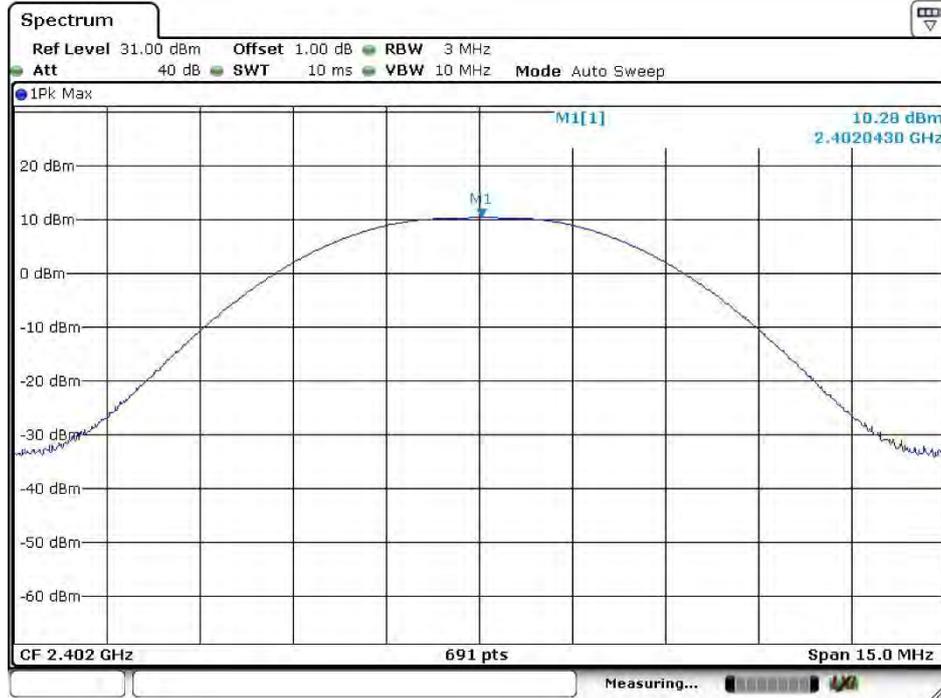


Date: 14.JAN.2021 11:26:31



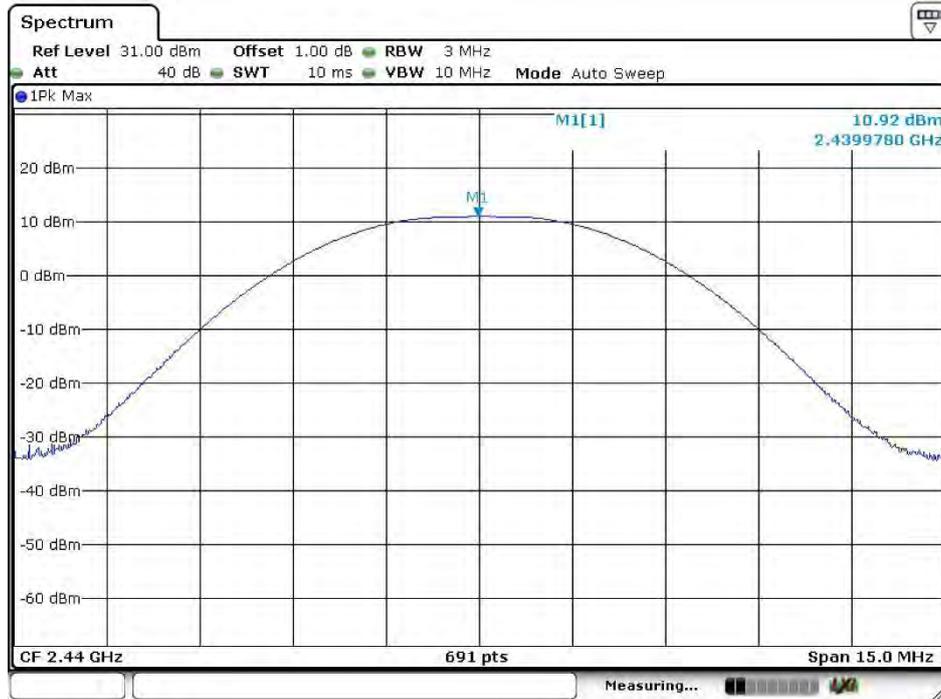
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### 4.4.2.10 GFSK 2M\_ANT2\_Lowest Channel



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### 4.4.2.11 GFSK 2M\_ANT2\_Middle Channel

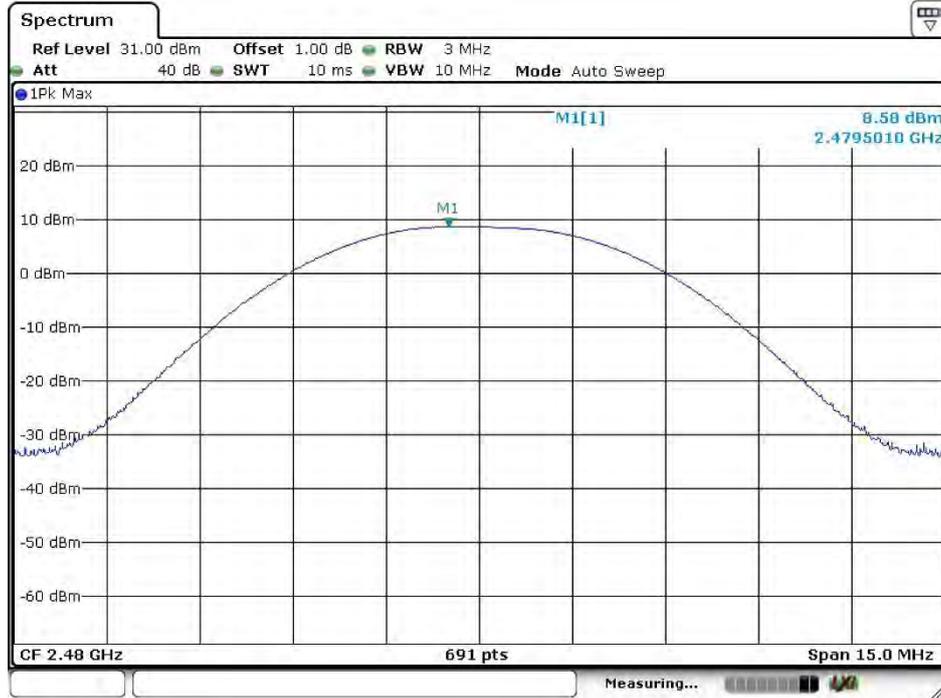


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### 4.4.2.12 GFSK 2M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:29:02

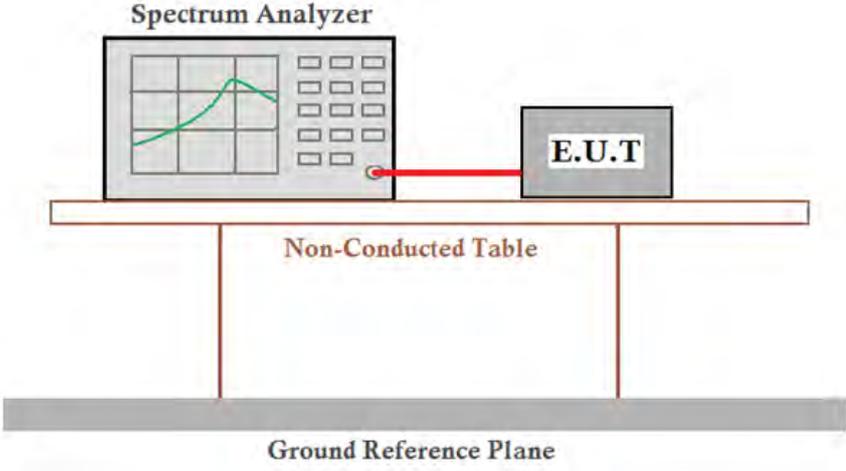


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### 4.5 DTS (6 dB) Bandwidth

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 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass



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**4.5.1 Test Results**

**ANT1:**

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_1M	Lowest	0.68	≥500	Pass
	Middle	0.68	≥500	Pass
	Highest	0.67	≥500	Pass

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_2M	Lowest	1.16	≥500	Pass
	Middle	1.17	≥500	Pass
	Highest	1.16	≥500	Pass

**ANT2:**

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_1M	Lowest	0.68	≥500	Pass
	Middle	0.67	≥500	Pass
	Highest	0.68	≥500	Pass

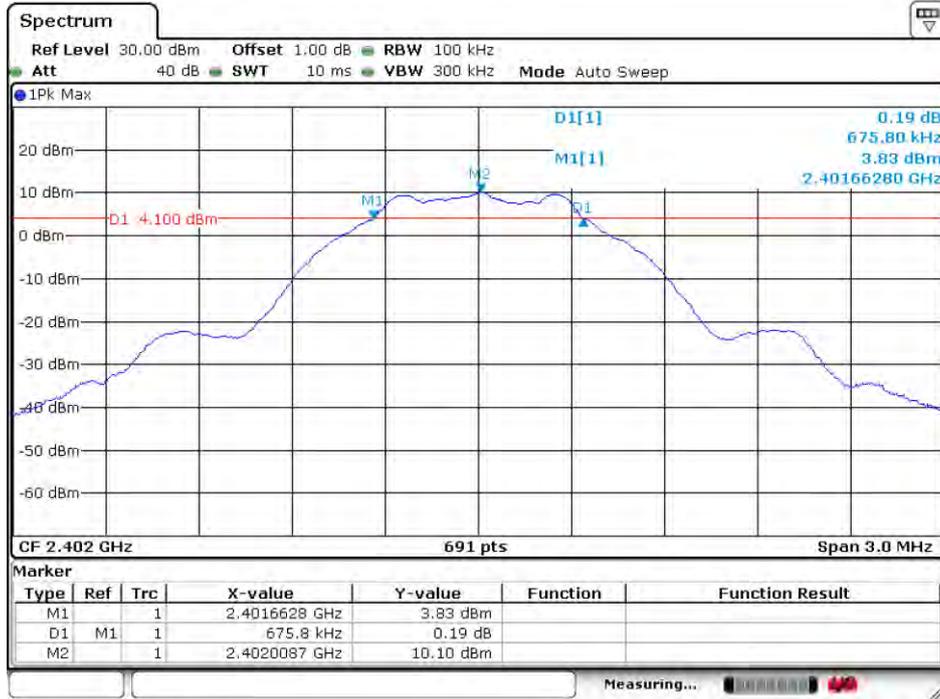
Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_2M	Lowest	1.15	≥500	Pass
	Middle	1.17	≥500	Pass
	Highest	1.17	≥500	Pass



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### 4.5.2 Test Plots

#### 4.5.2.1 GFSK 1M\_ANT1\_Lowest Channel



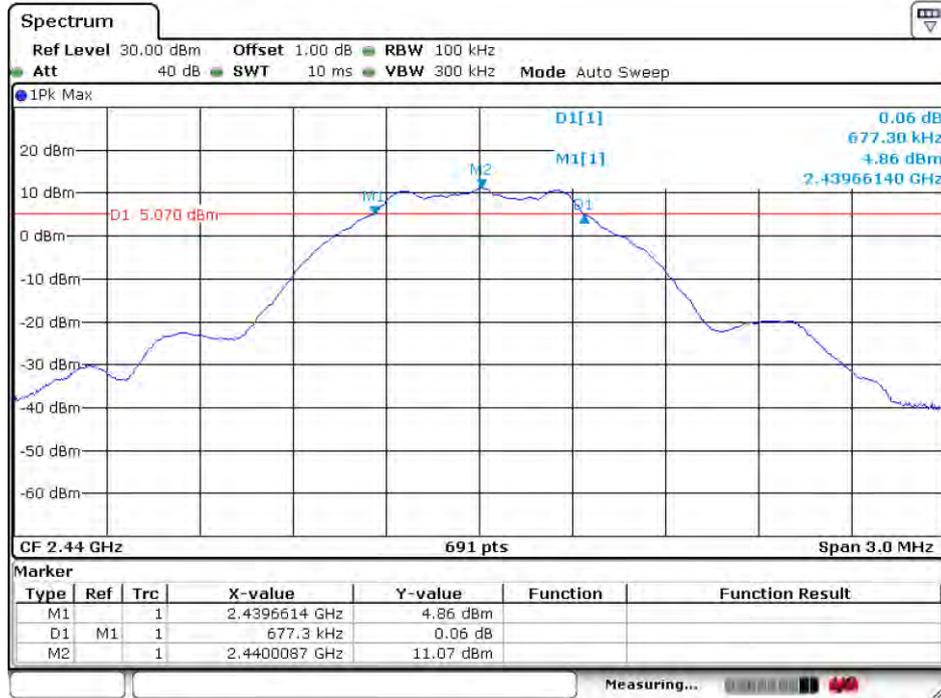
Date: 8 JAN 2021 09:55:40



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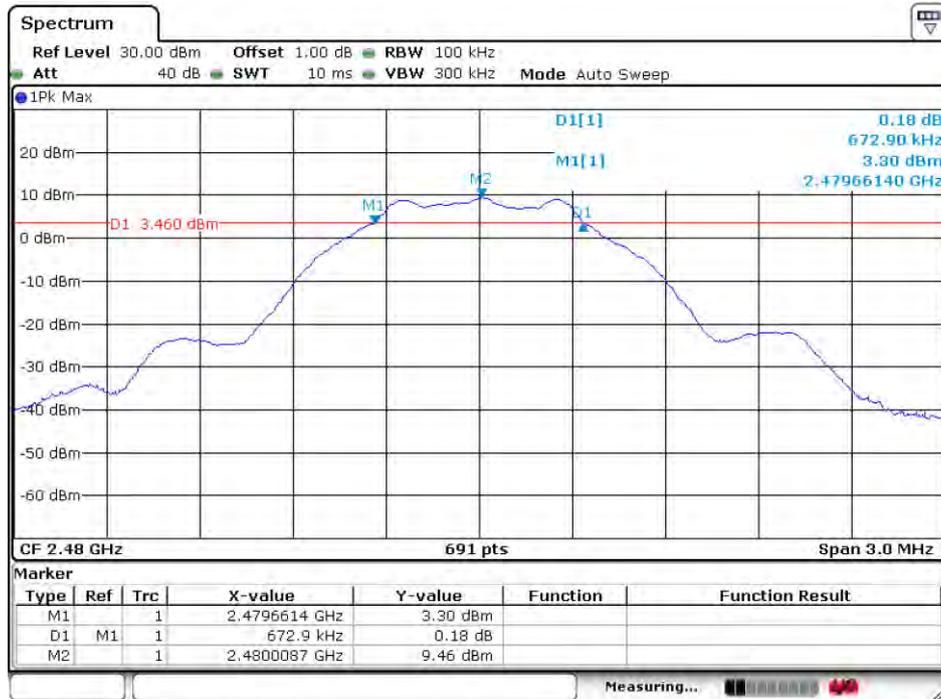
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### 4.5.2.2 GFSK 1M\_ANT1\_Middle Channel



Date: 8 JAN, 2021 09:56:13

### 4.5.2.3 GFSK 1M\_ANT1\_Highest Channel

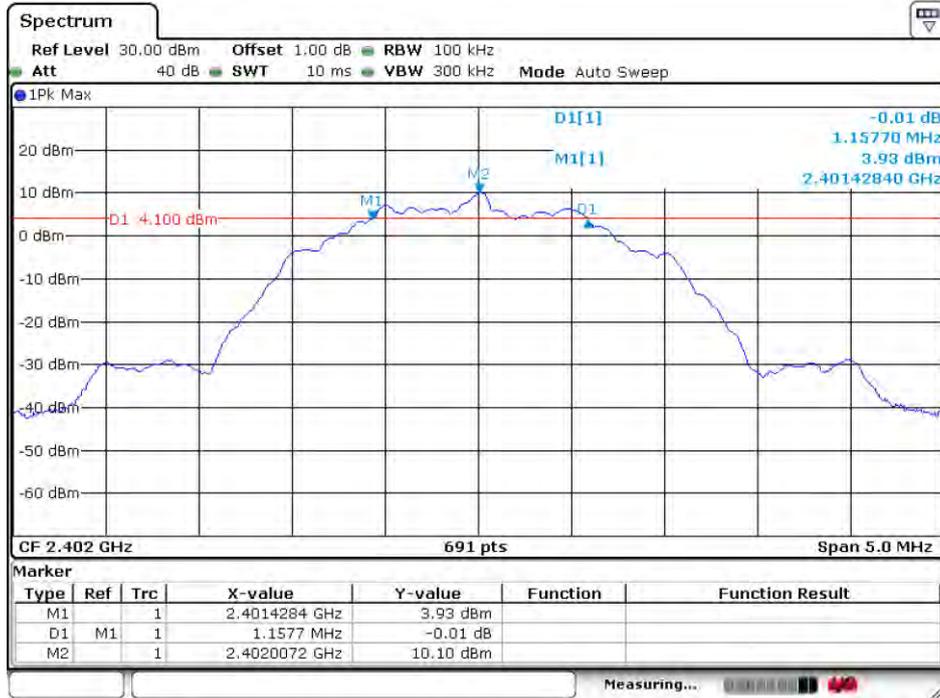


Date: 8 JAN, 2021 09:56:52



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### 4.5.2.4 GFSK 2M\_ANT1\_Lowest Channel



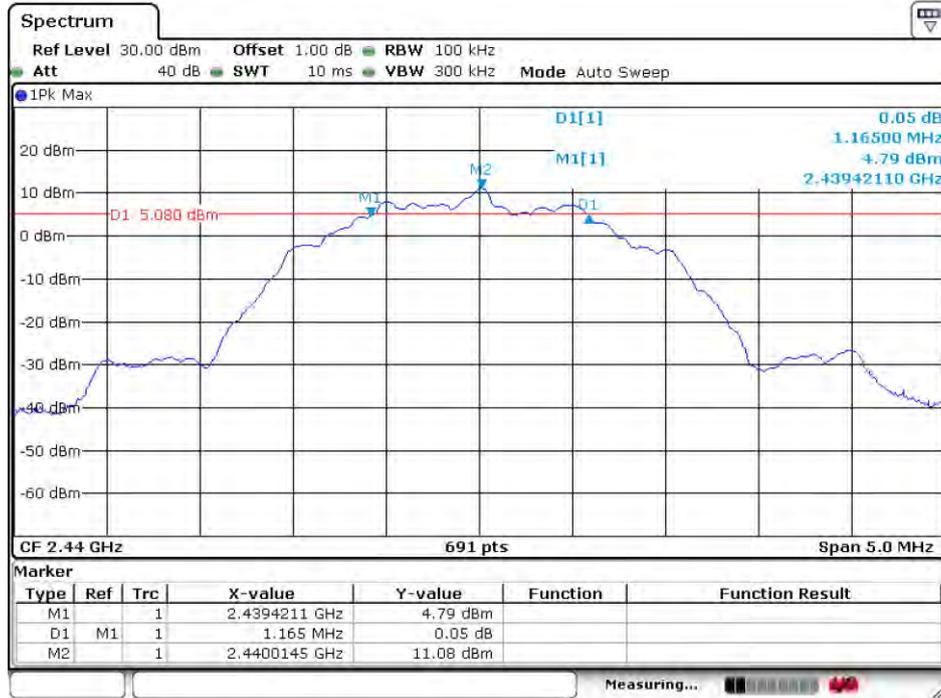
Date: 8 JAN 2021 09:55:12



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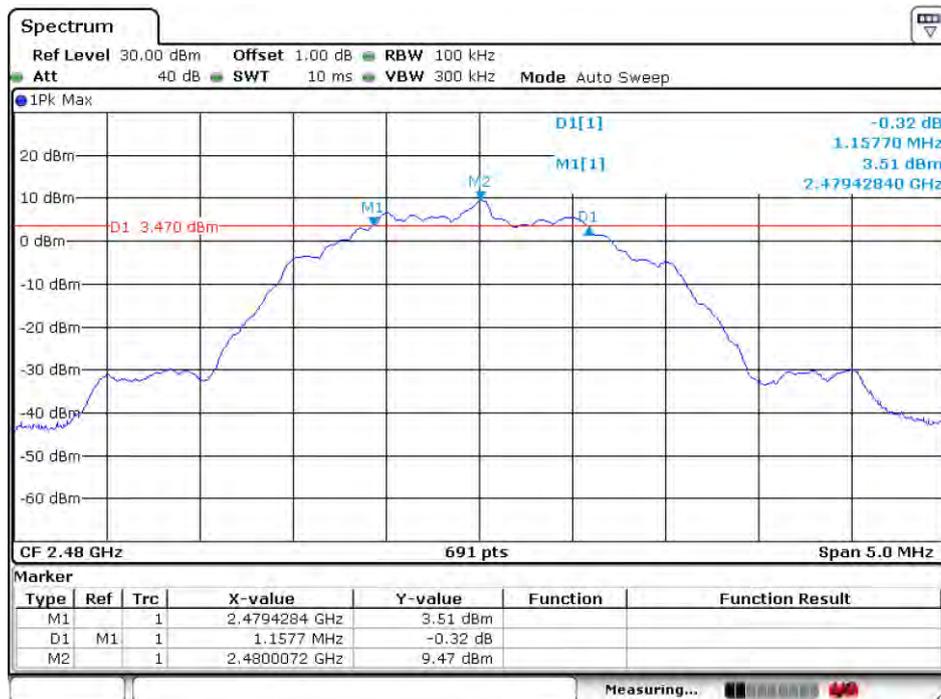
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### 4.5.2.5 GFSK 2M\_ANT1\_Middle Channel



Date: 8 JAN, 2021 09:52:27

### 4.5.2.6 GFSK 2M\_ANT1\_Highest Channel

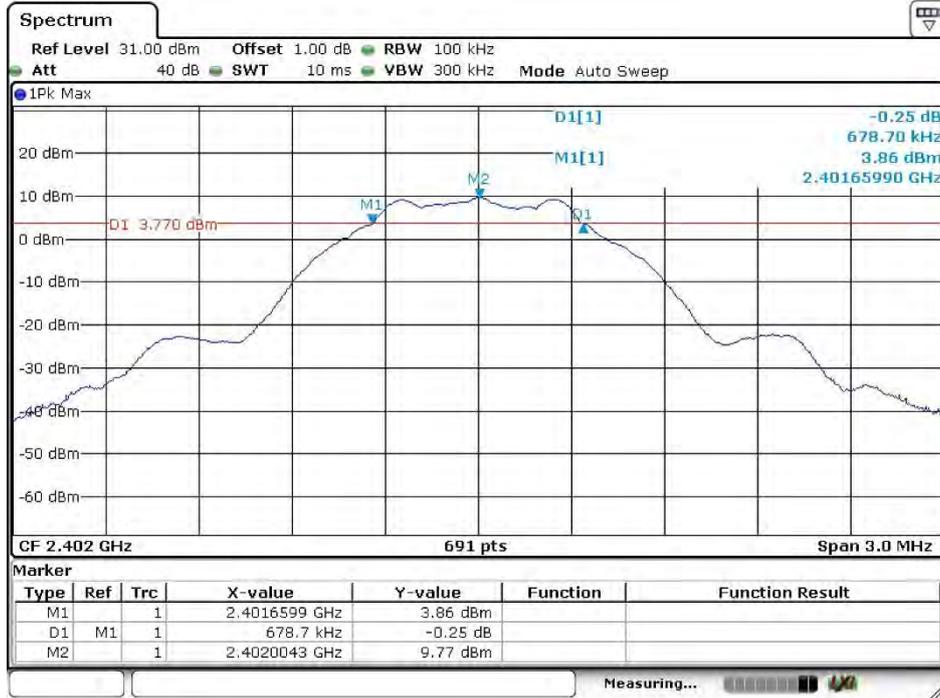


Date: 8 JAN, 2021 09:54:11



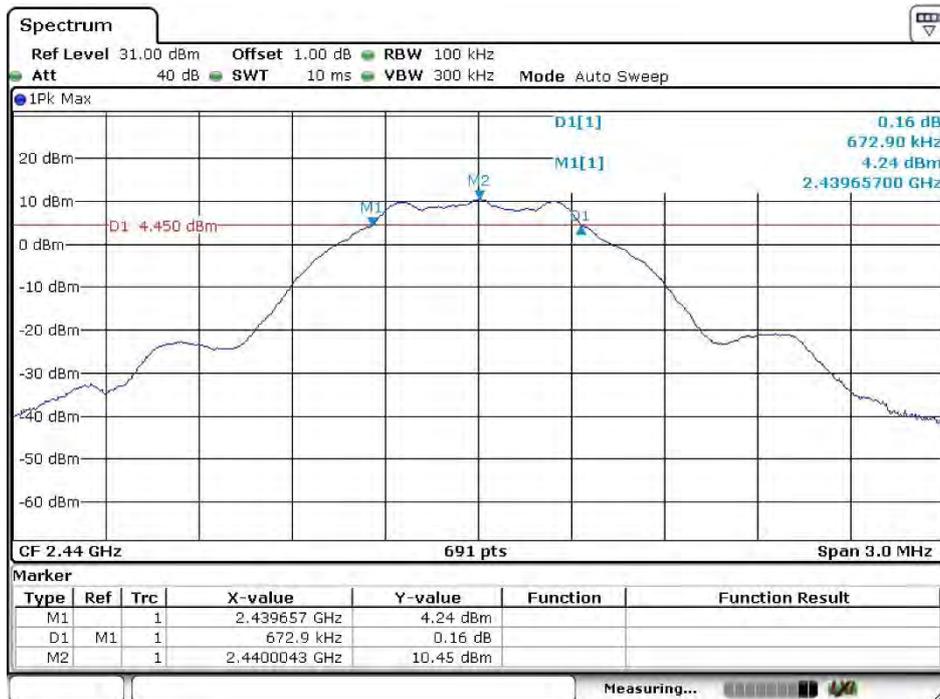
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### 4.5.2.7 GFSK 1M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:31:00

### 4.5.2.8 GFSK 1M\_ANT2\_Middle Channel

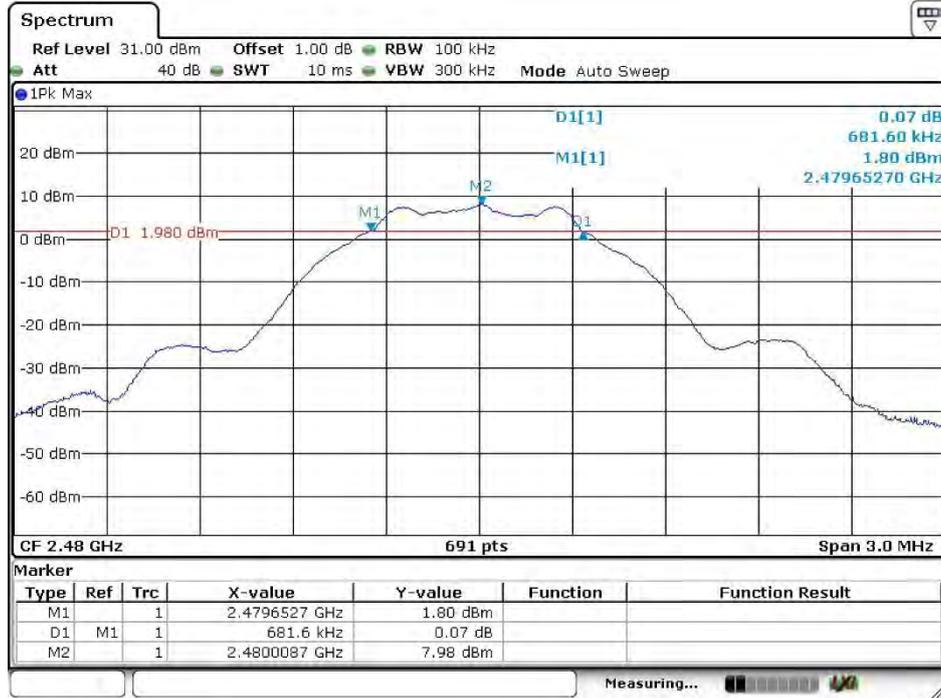


Date: 14.JAN.2021 11:31:43



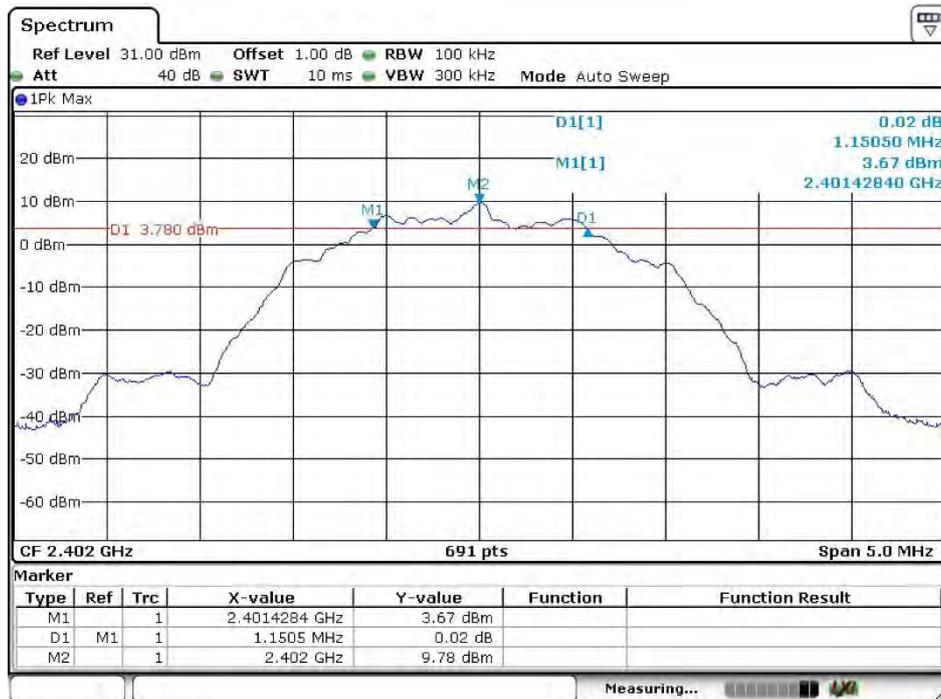
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### 4.5.2.9 GFSK 1M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:32:18

### 4.5.2.10 GFSK 2M\_ANT2\_Lowest Channel

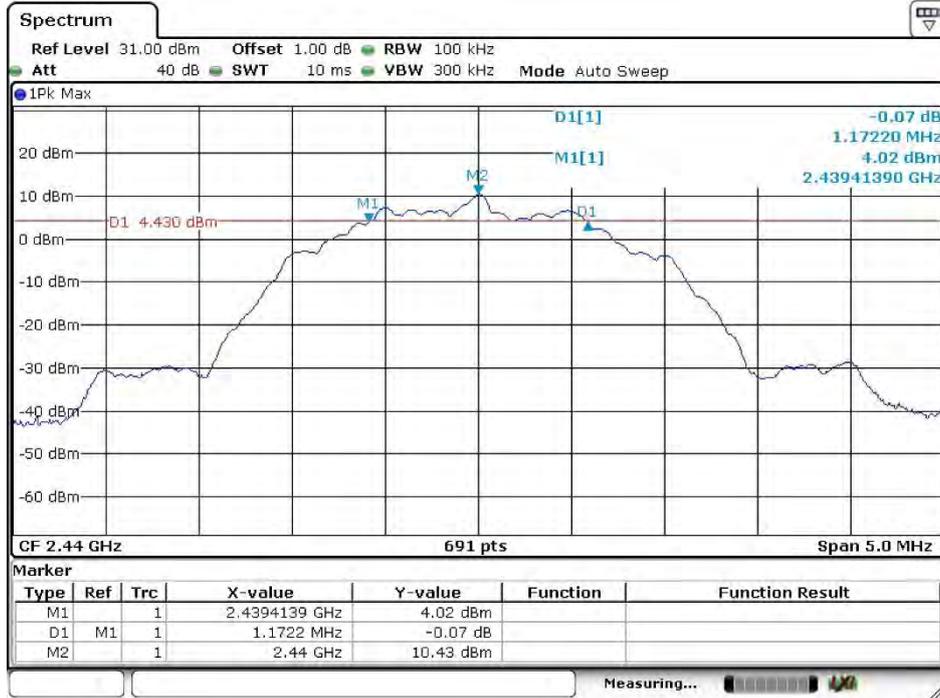


Date: 14.JAN.2021 11:32:43



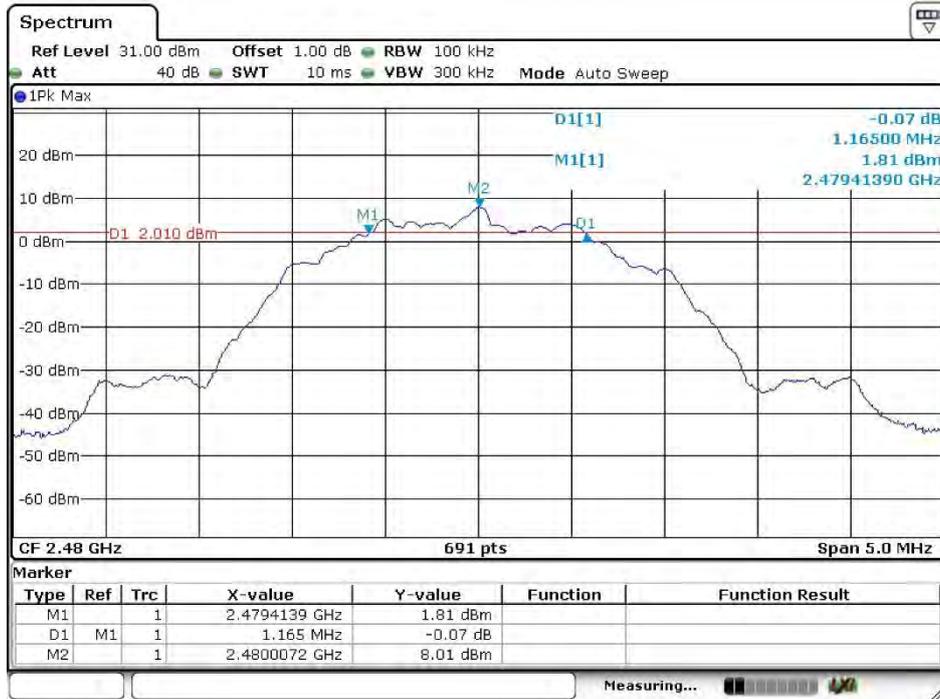
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### 4.5.2.11 GFSK 2M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:33:17

### 4.5.2.12 GFSK 2M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:35:25



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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 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

#### 4.6.1 Test Results

##### ANT1:

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-4.47	≤8.00	Pass
	Middle	-3.51	≤8.00	Pass
	Highest	-5.16	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_2M	Lowest	-7.35	≤8.00	Pass
	Middle	-6.40	≤8.00	Pass
	Highest	-8.05	≤8.00	Pass



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**ANT2:**

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-4.70	≤8.00	Pass
	Middle	-4.11	≤8.00	Pass
	Highest	-6.54	≤8.00	Pass

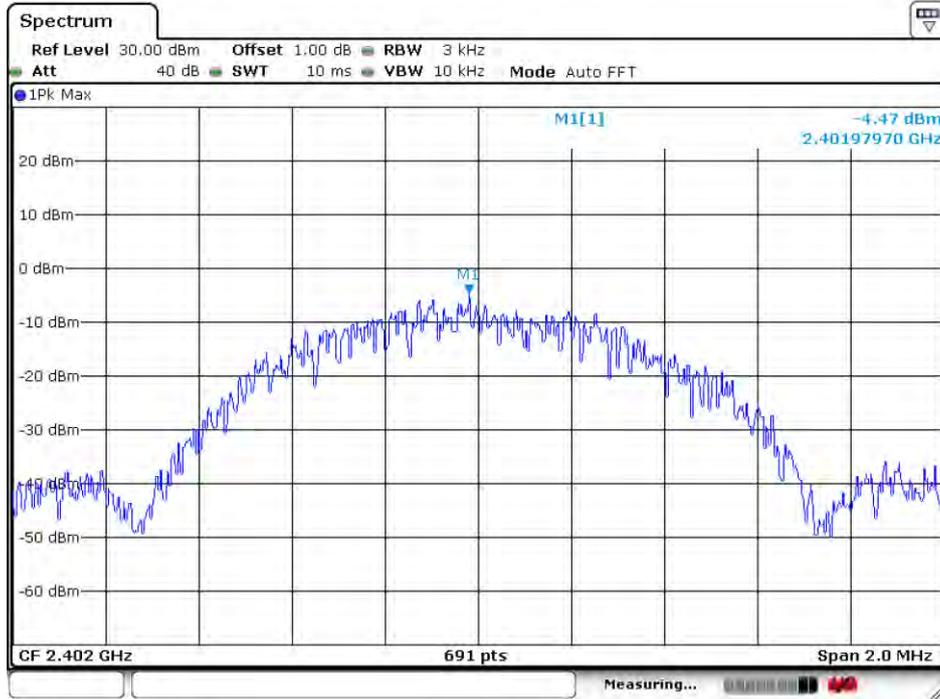
Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_2M	Lowest	-7.61	≤8.00	Pass
	Middle	-6.99	≤8.00	Pass
	Highest	-9.43	≤8.00	Pass



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## 4.6.2 Test Plots

### 4.6.2.1 GFSK 1M\_ANT1\_Lowest Channel

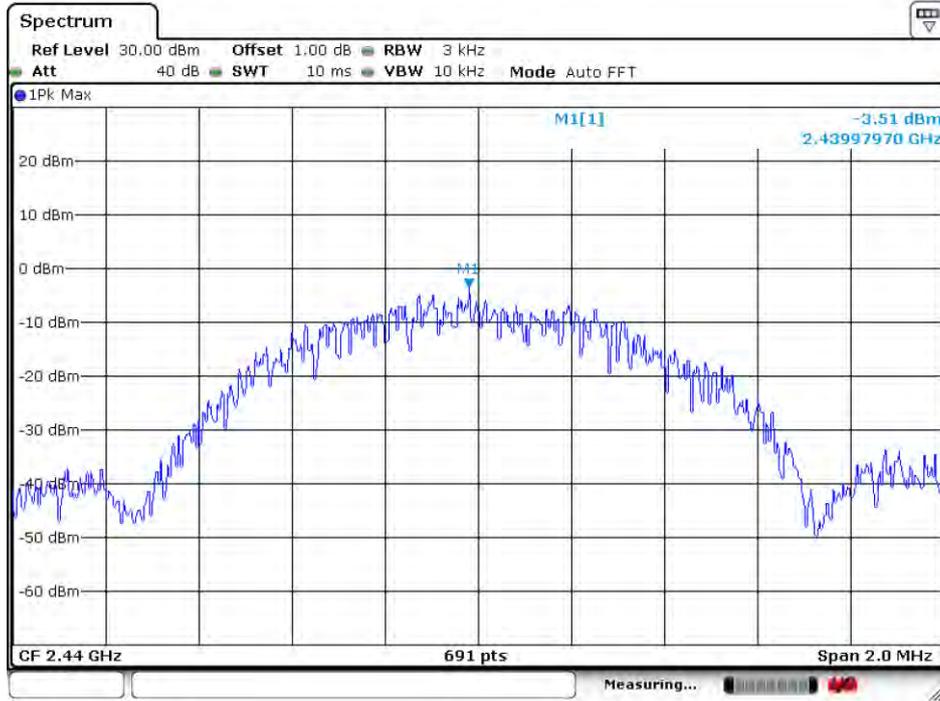


Date: 8. JAN.2021 09:39:21



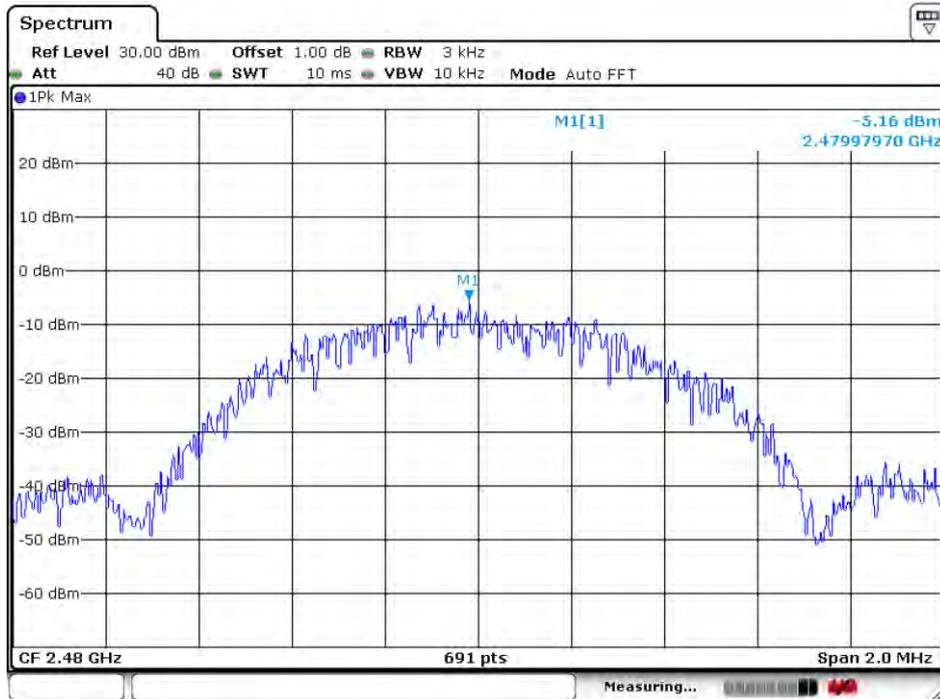
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### 4.6.2.2 GFSK 1M\_ANT1\_Middle Channel



Date: 8. JAN. 2021 09:39:11

### 4.6.2.3 GFSK 1M\_ANT1\_Highest Channel



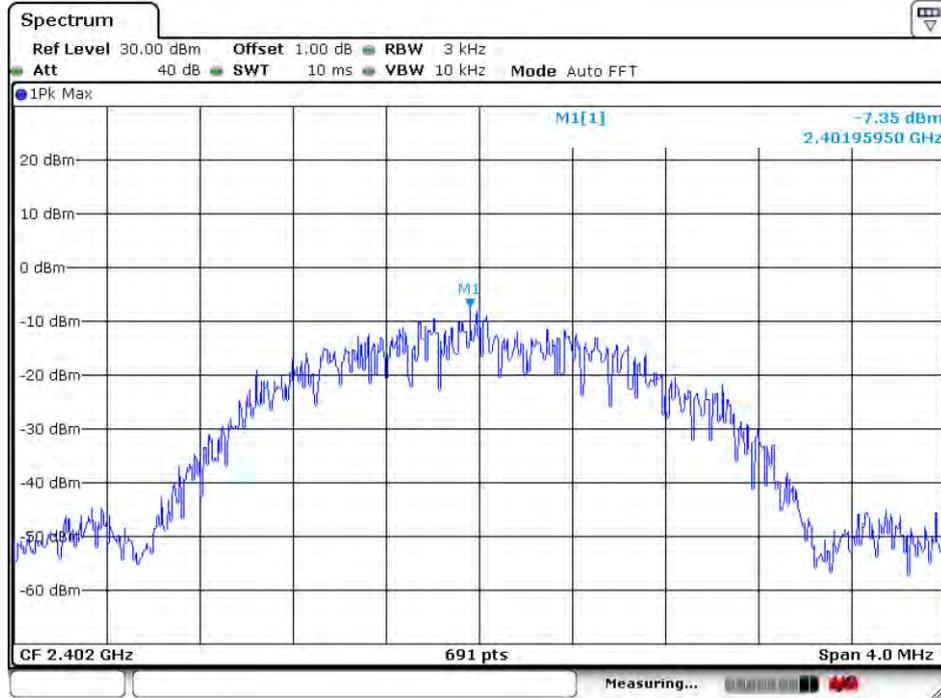
Date: 8. JAN. 2021 09:39:38



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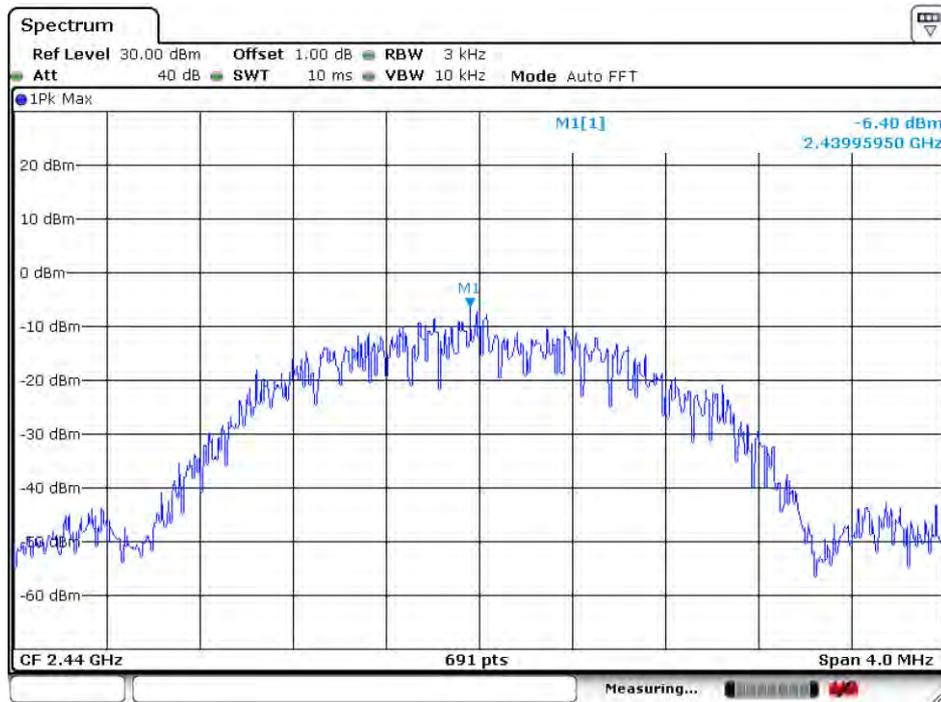
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### 4.6.2.4 GFSK 2M\_ANT1\_Lowest Channel



Date: 8 JAN 2021 09:38:46

### 4.6.2.5 GFSK 2M\_ANT1\_Middle Channel

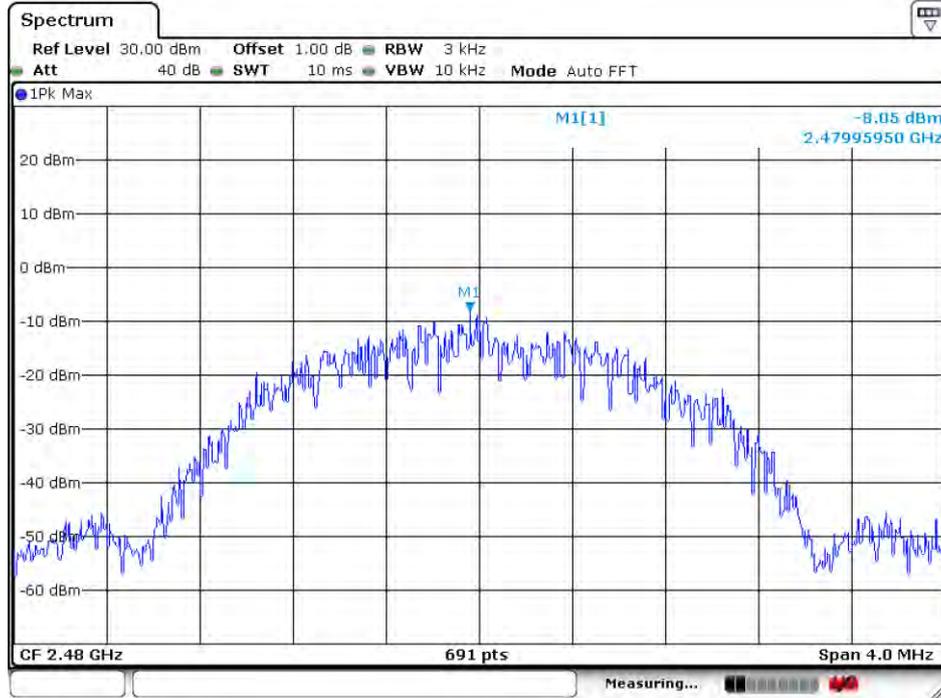


Date: 8 JAN 2021 09:38:36



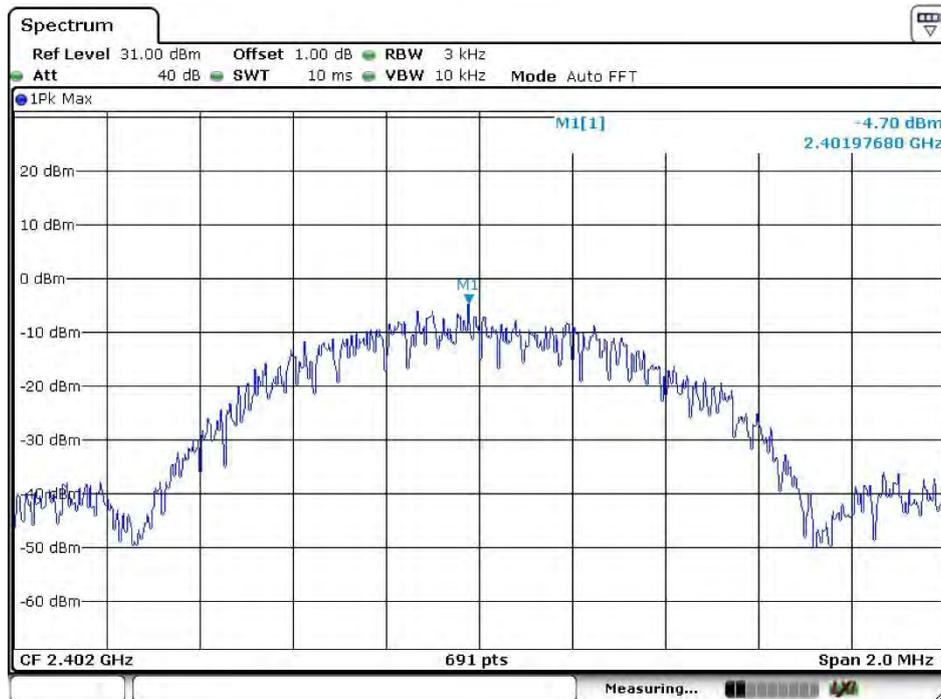
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### 4.6.2.6 GFSK 2M\_ANT1\_Highest Channel



Date: 8 JAN 2021 09:38:16

### 4.6.2.7 GFSK 1M\_ANT2\_Lowest Channel

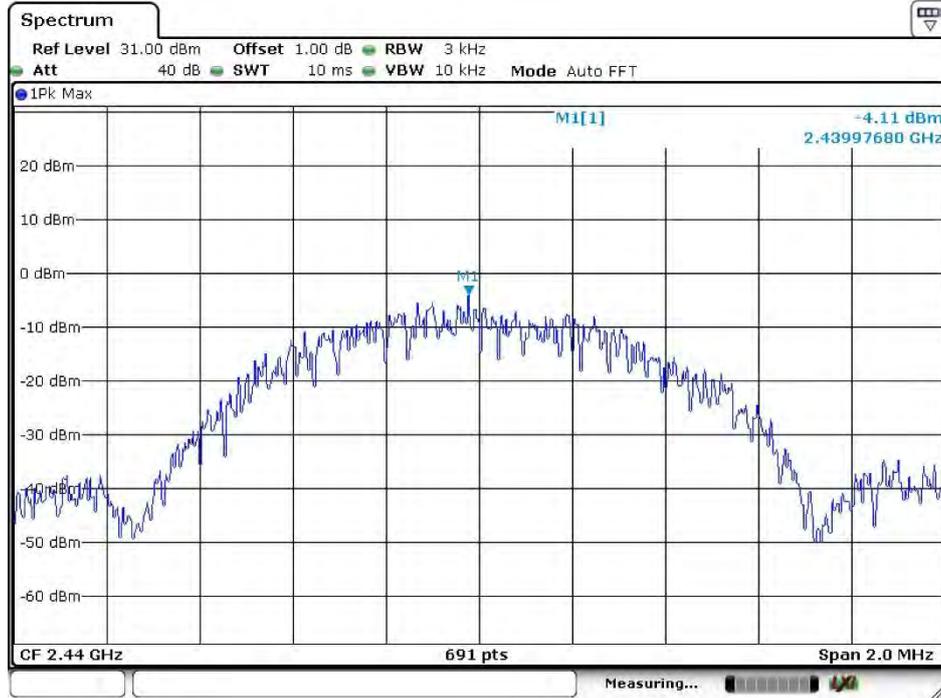


Date: 14 JAN 2021 11:30:20



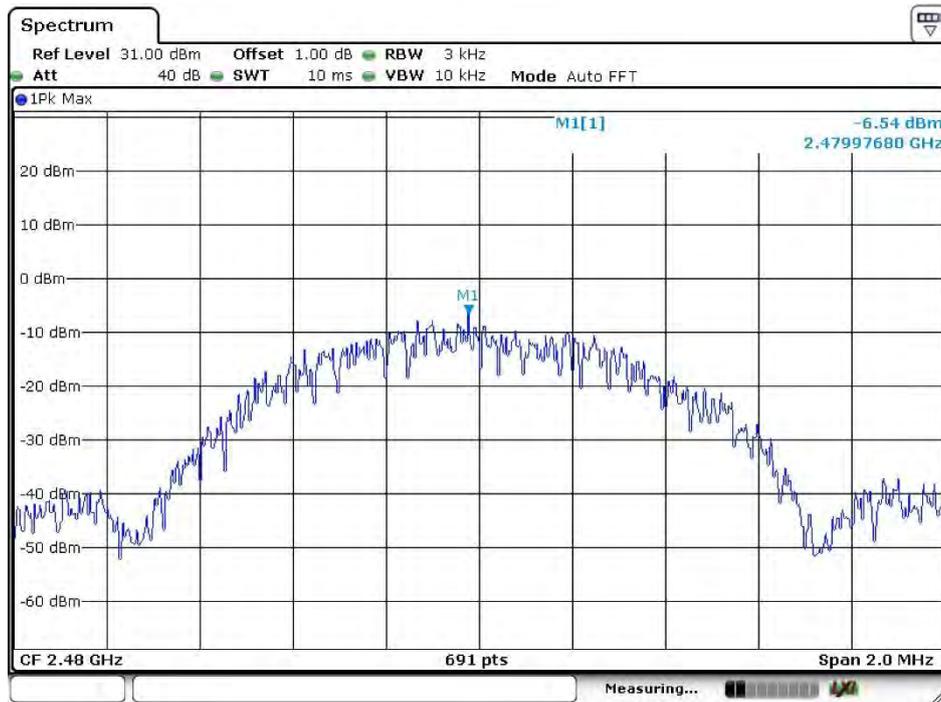
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### 4.6.2.8 GFSK 1M\_ANT2\_Middle Channel



Date: 14 JAN 2021 11:30:09

### 4.6.2.9 GFSK 1M\_ANT2\_Highest Channel

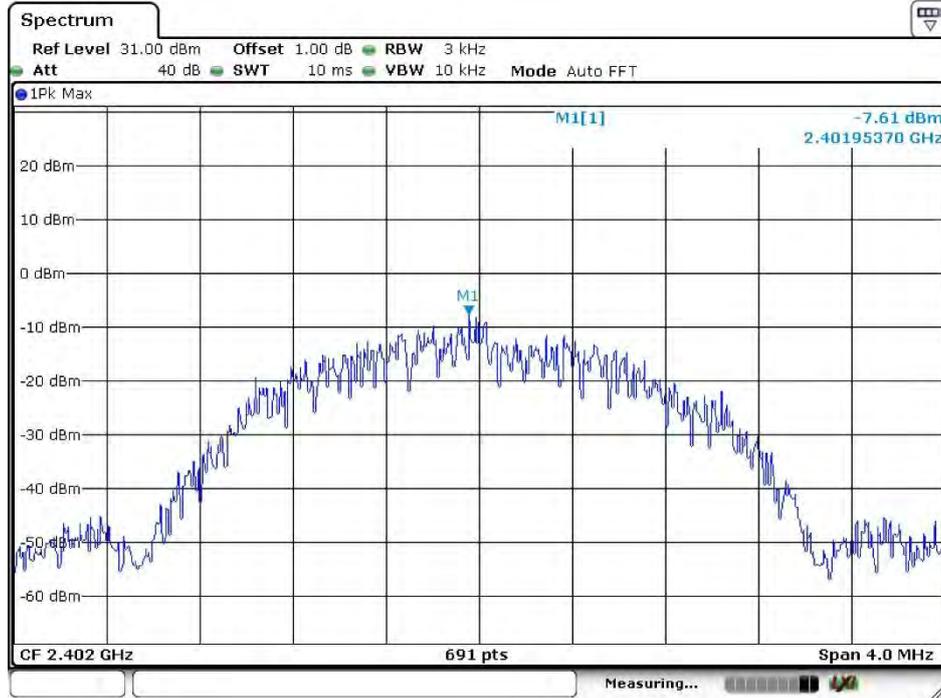


Date: 14 JAN 2021 11:29:56



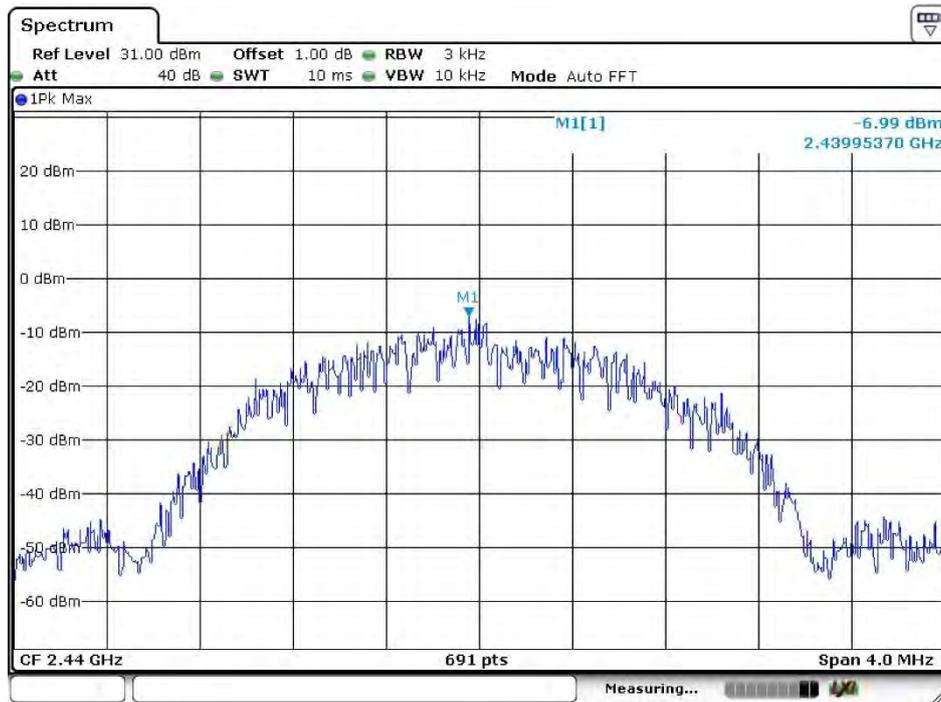
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### 4.6.2.10 GFSK 2M\_ANT2\_Lowest Channel



Date: 14 JAN 2021 11:29:44

### 4.6.2.11 GFSK 2M\_ANT2\_Middle Channel

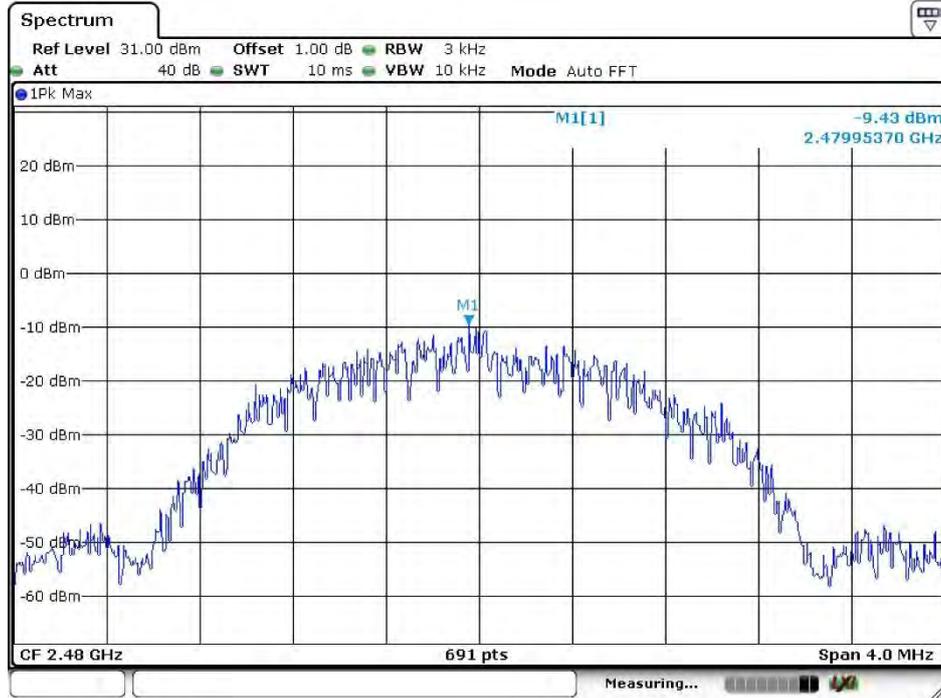


Date: 14 JAN 2021 11:29:27



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### 4.6.2.12 GFSK 2M\_ANT2\_Highest Channel



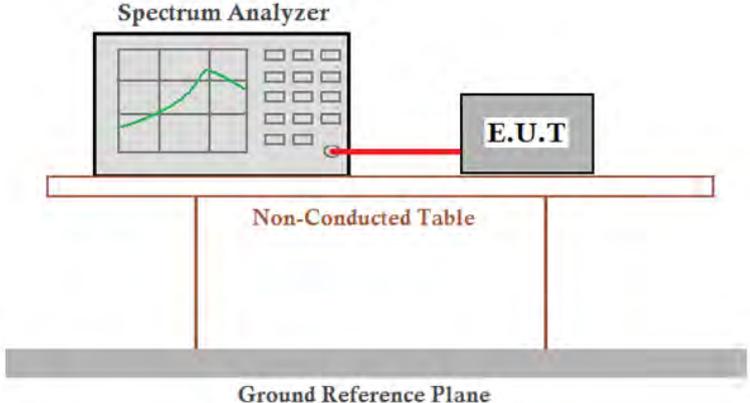
Date: 14.JAN.2021 11:29:13



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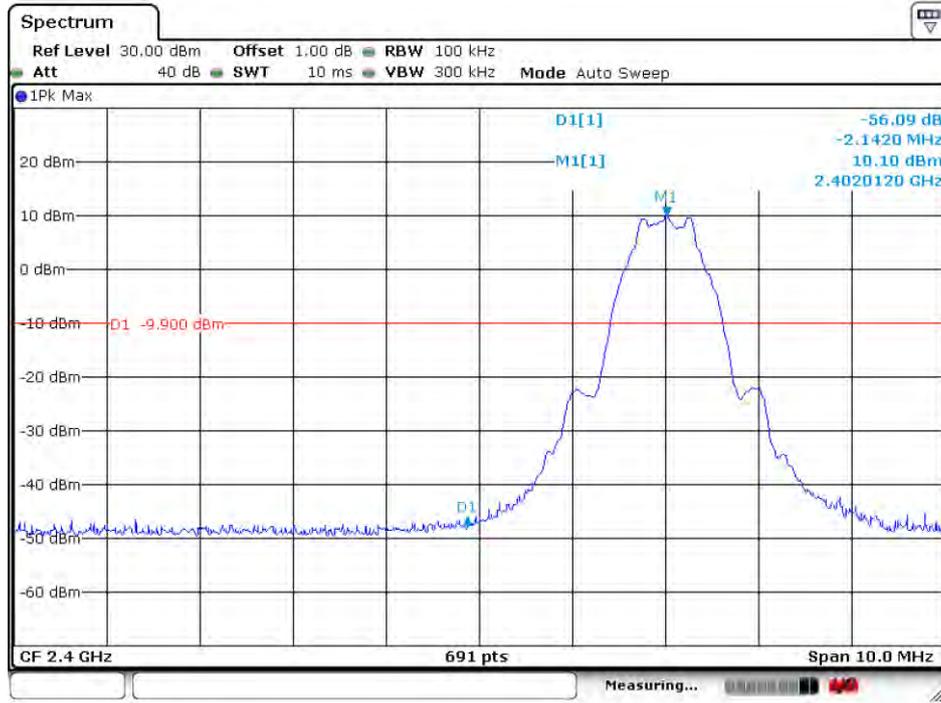
### 4.7 Band-edge for RF Conducted Emissions

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 5.10 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\_ANT1\_Lowest Channel

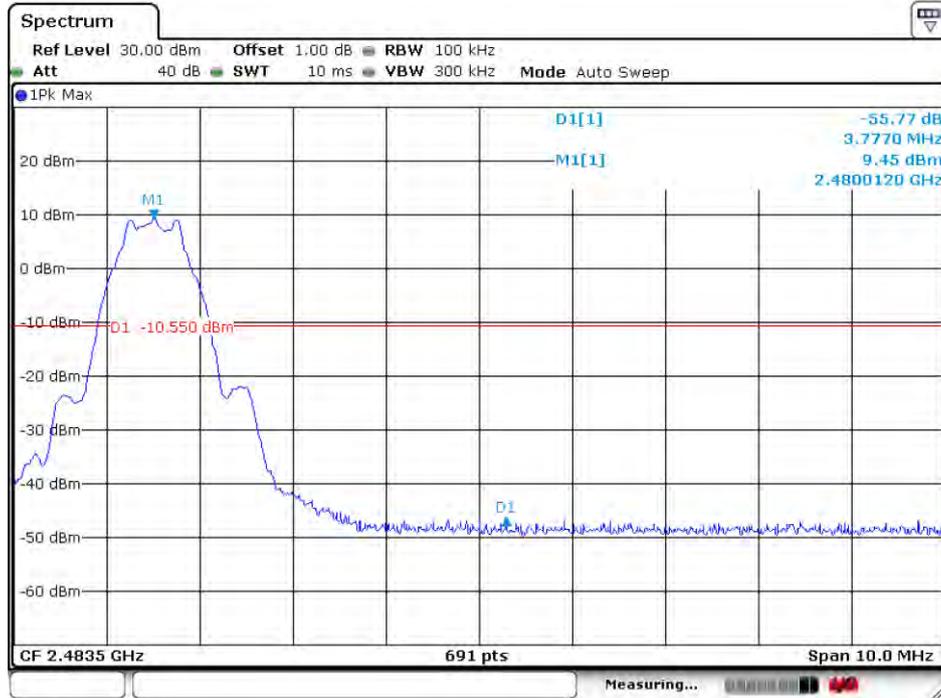


Date: 8.JAN.2021 09:58:04



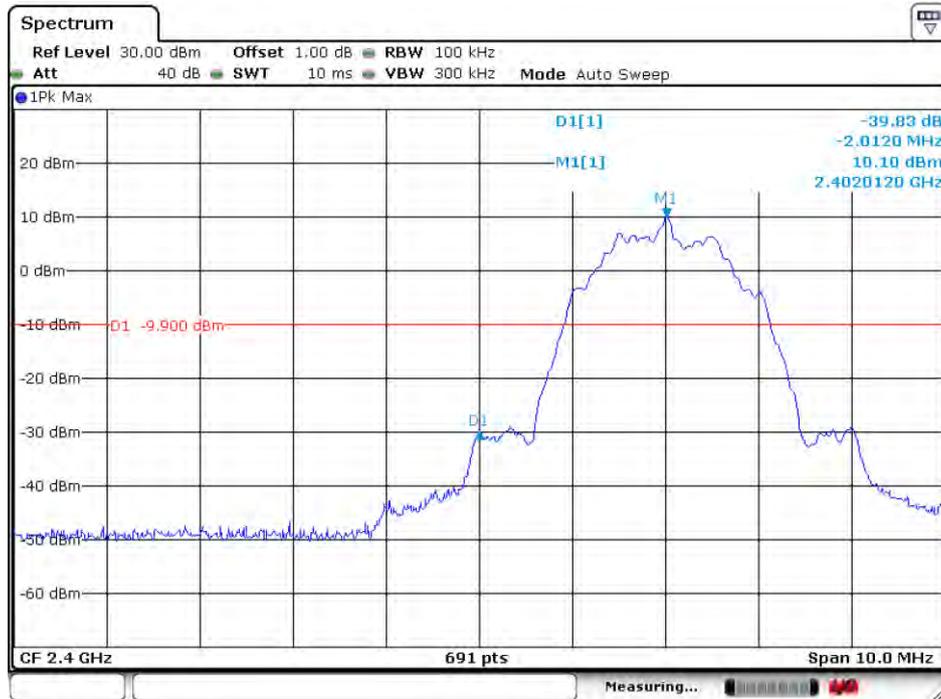
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### 4.7.1.2 GFSK 1M\_ANT1\_Highest Channel



Date: 8. JAN. 2021 09:57:25

### 4.7.1.3 GFSK 2M\_ANT1\_Lowest Channel

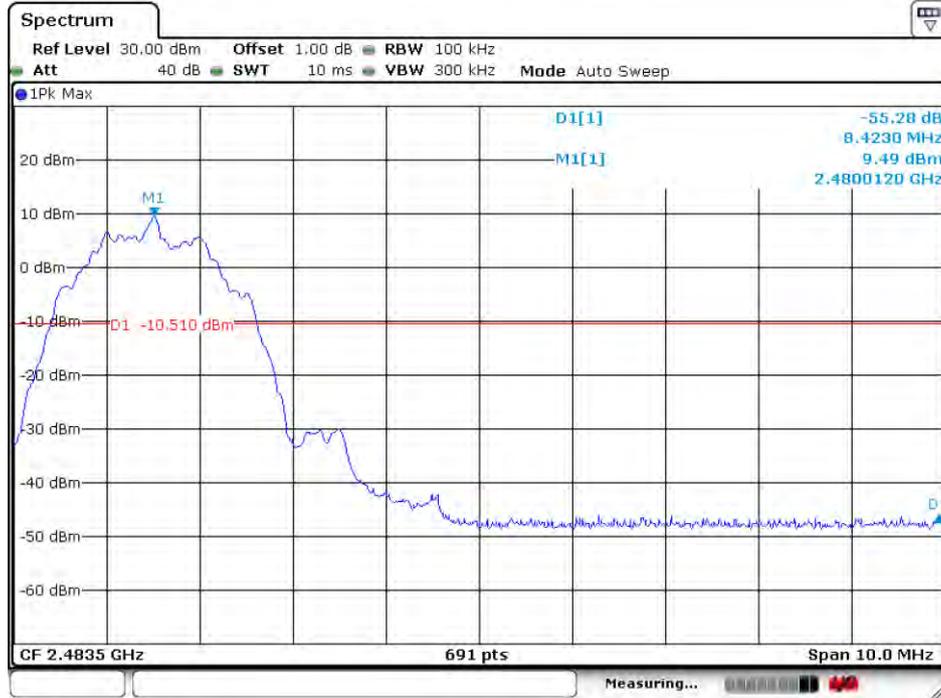


Date: 8. JAN. 2021 09:58:24



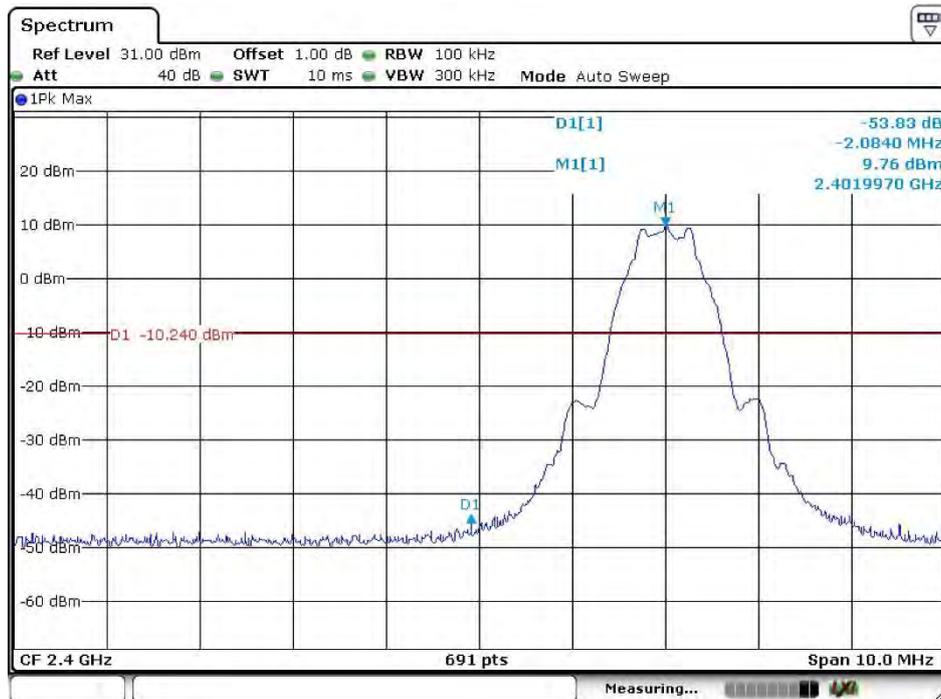
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### 4.7.1.4 GFSK 2M\_ANT1\_Highest Channel



Date: 8 JAN 2021 10:00:29

### 4.7.1.5 GFSK 1M\_ANT2\_Lowest Channel



Date: 14 JAN 2021 11:39:17



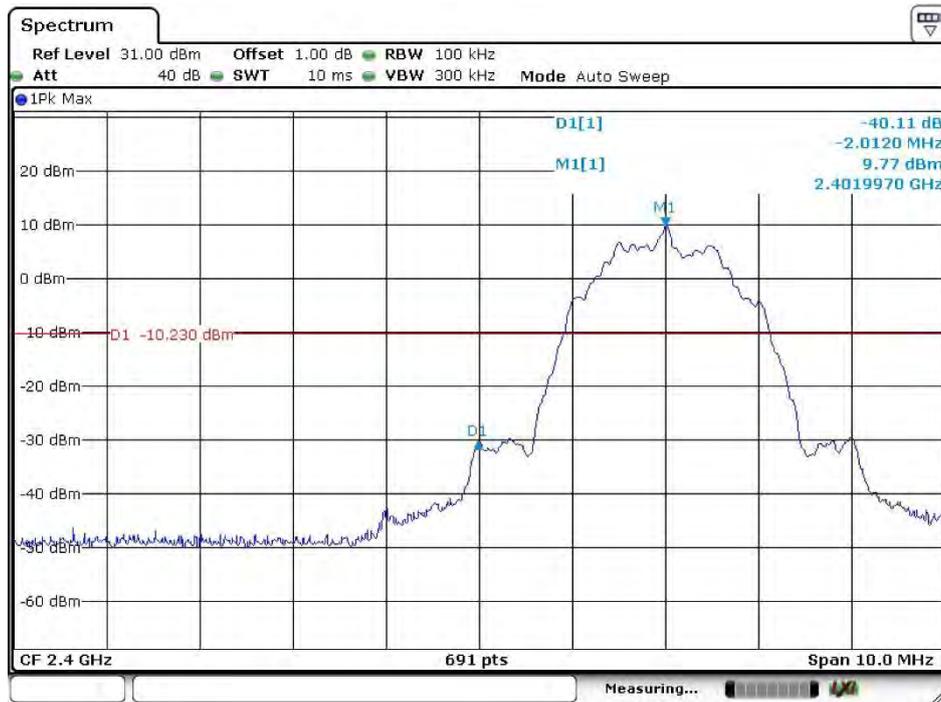
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### 4.7.1.6 GFSK 1M\_ANT2\_Highest Channel



Date: 14 JAN 2021 11:38:47

### 4.7.1.7 GFSK 2M\_ANT2\_Lowest Channel

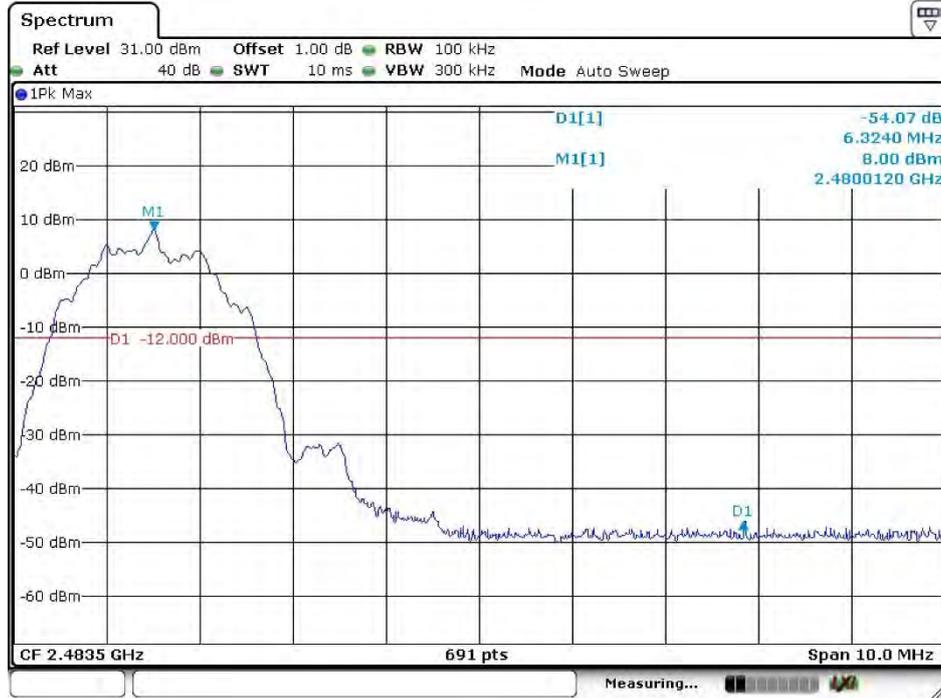


Date: 14 JAN 2021 11:39:39



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4.7.1.8 GFSK 2M\_ANT2\_Highest Channel



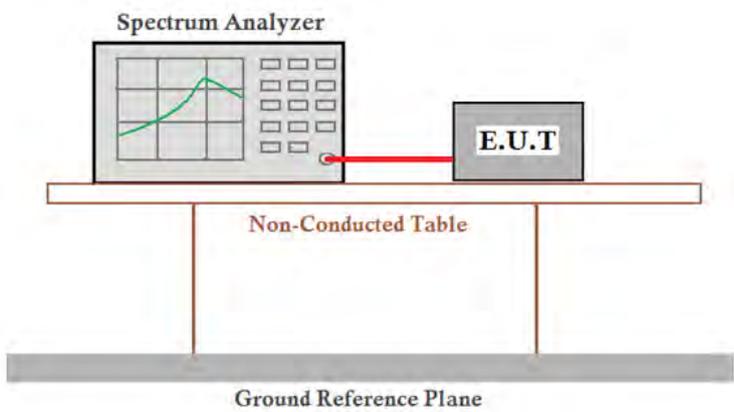
Date: 14.JAN.2021 11:40:02



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### 4.8 RF Conducted Spurious Emissions

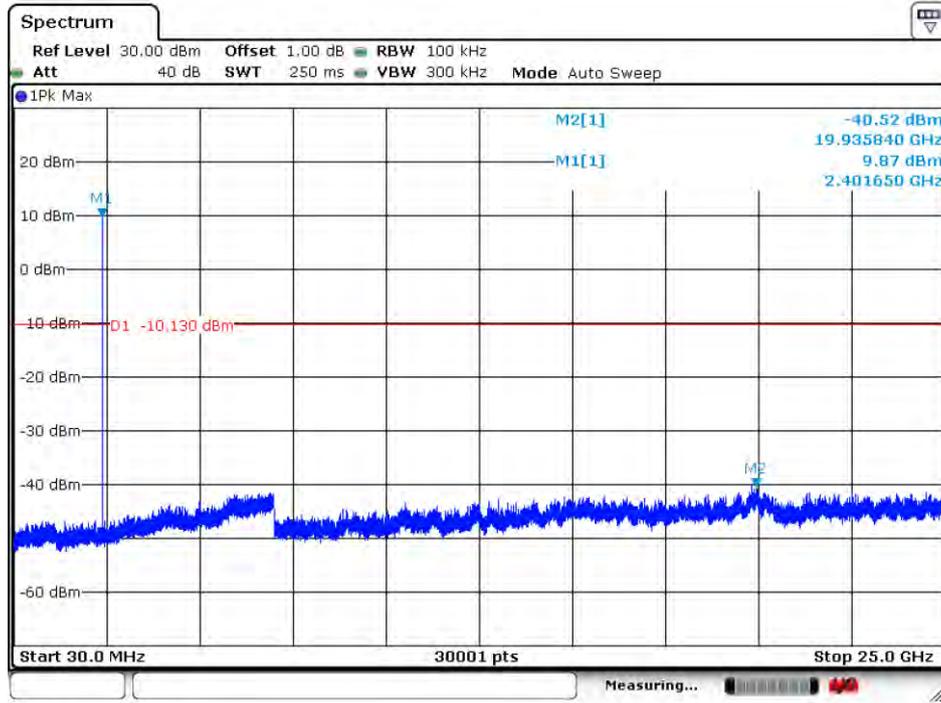
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	 <p>The diagram illustrates the test setup for RF conducted spurious emissions. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane, represented by a thick grey bar.</p>
Instruments Used:	Refer to section 5.10 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\_ANT1\_Lowest Channel

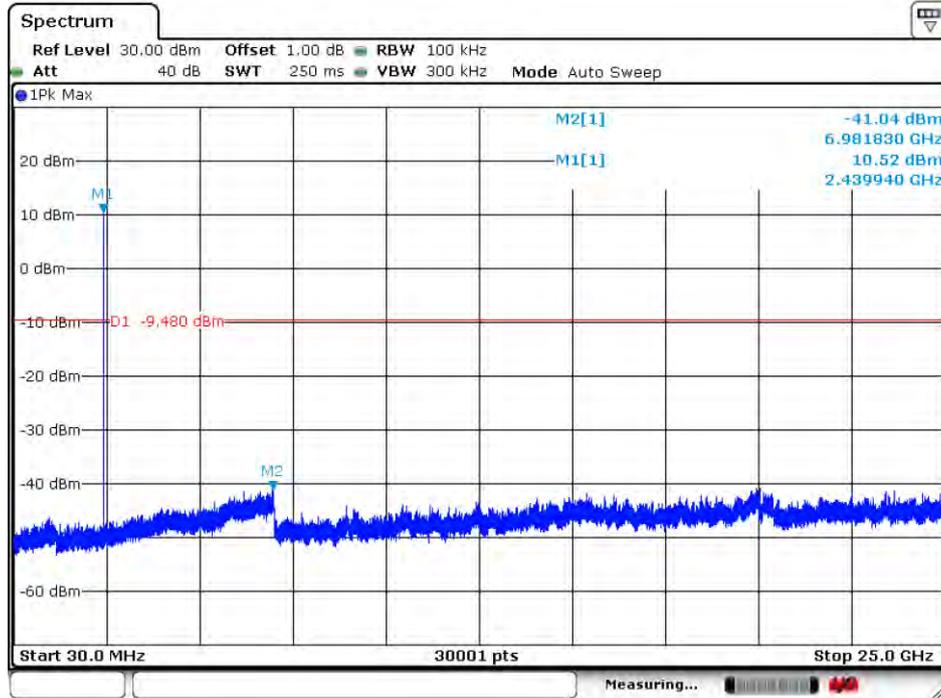


Date: 8 JAN 2021 10:07:58



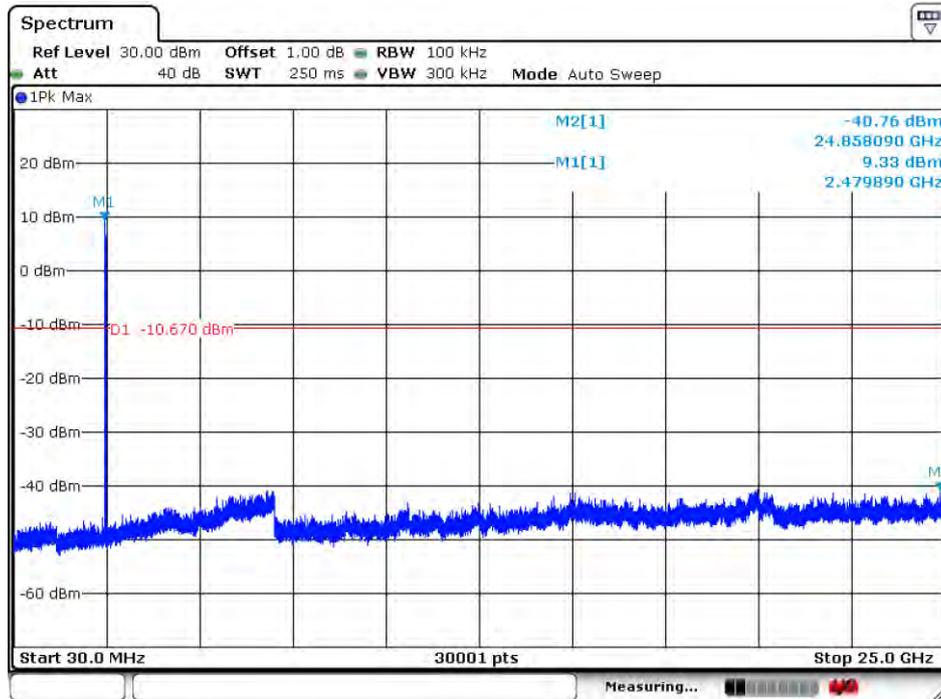
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### 4.8.1.2 GFSK 1M\_ANT1\_Middle Channel



Date: 8.JAN.2021 10:08:35

### 4.8.1.3 GFSK 1M\_ANT1\_Highest Channel



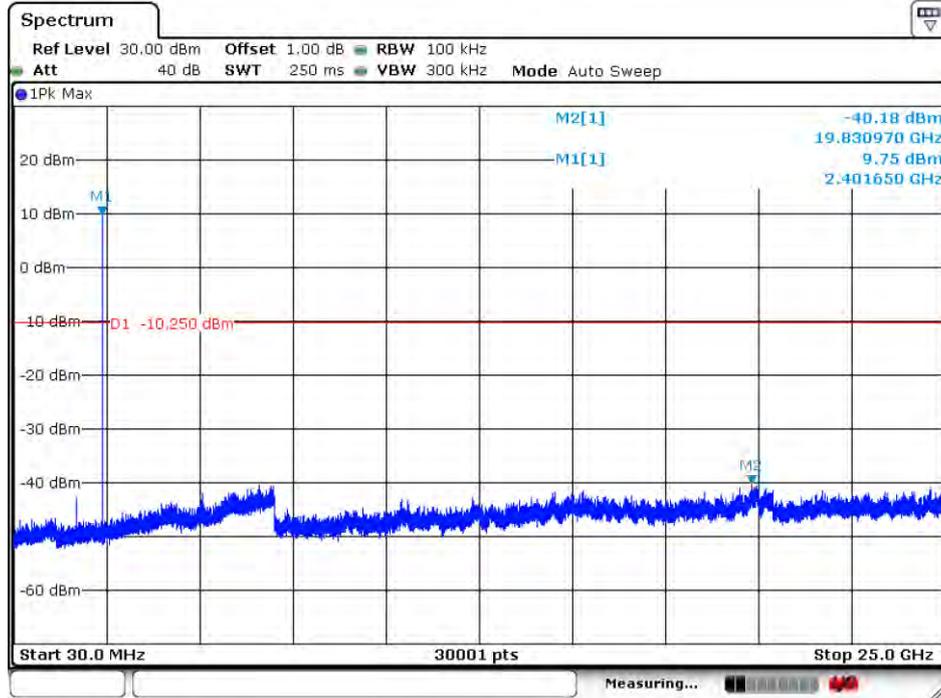
Date: 8.JAN.2021 10:09:25



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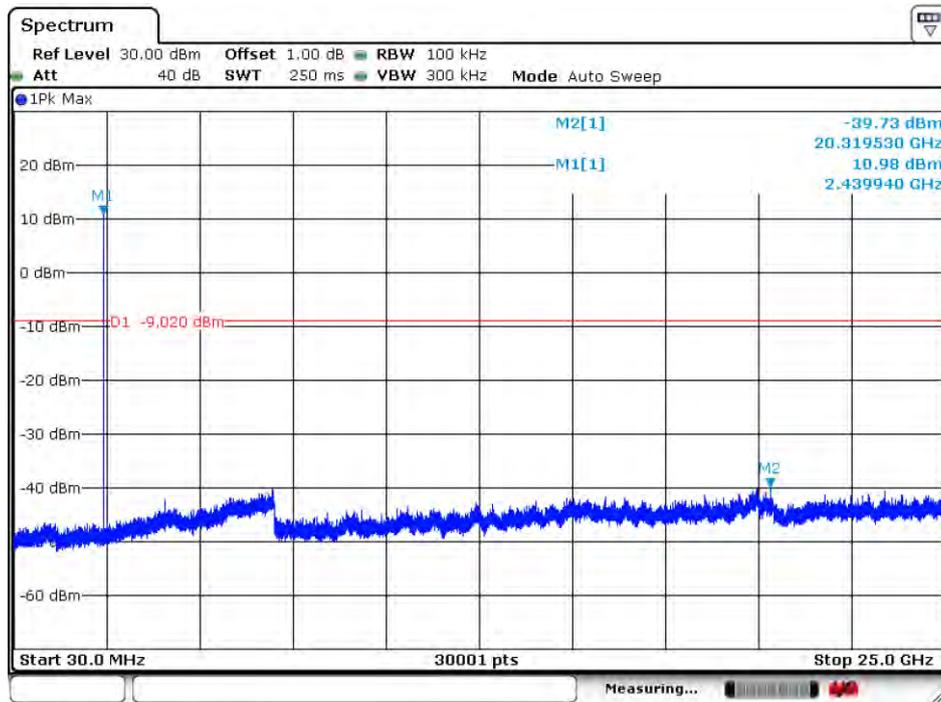
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### 4.8.1.4 GFSK 2M\_ANT1\_Lowest Channel



Date: 8 JAN 2021 10:13:17

### 4.8.1.5 GFSK 2M\_ANT1\_Middle Channel

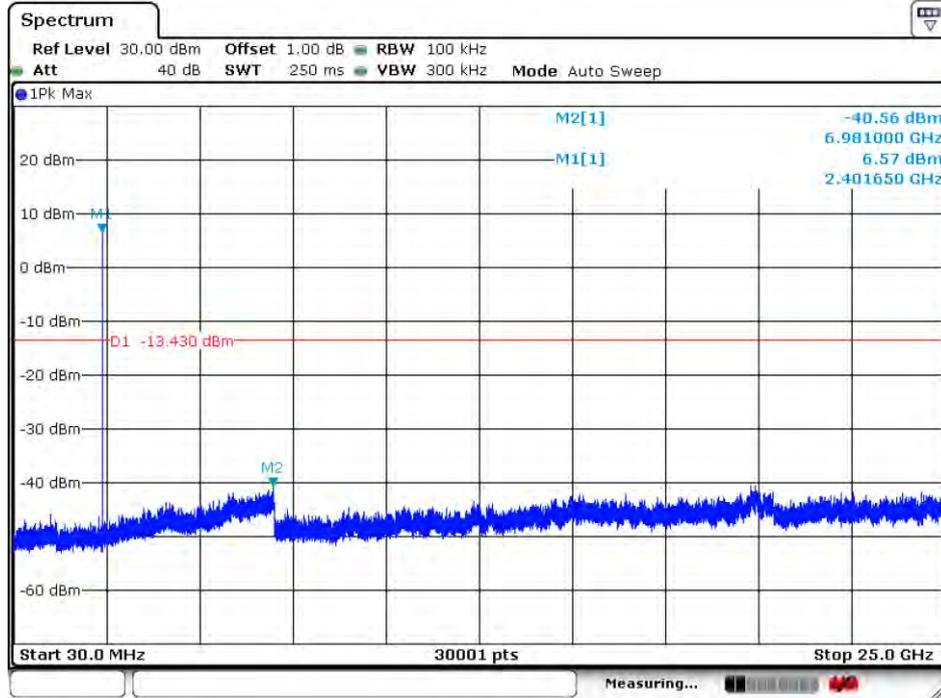


Date: 8 JAN 2021 10:12:00



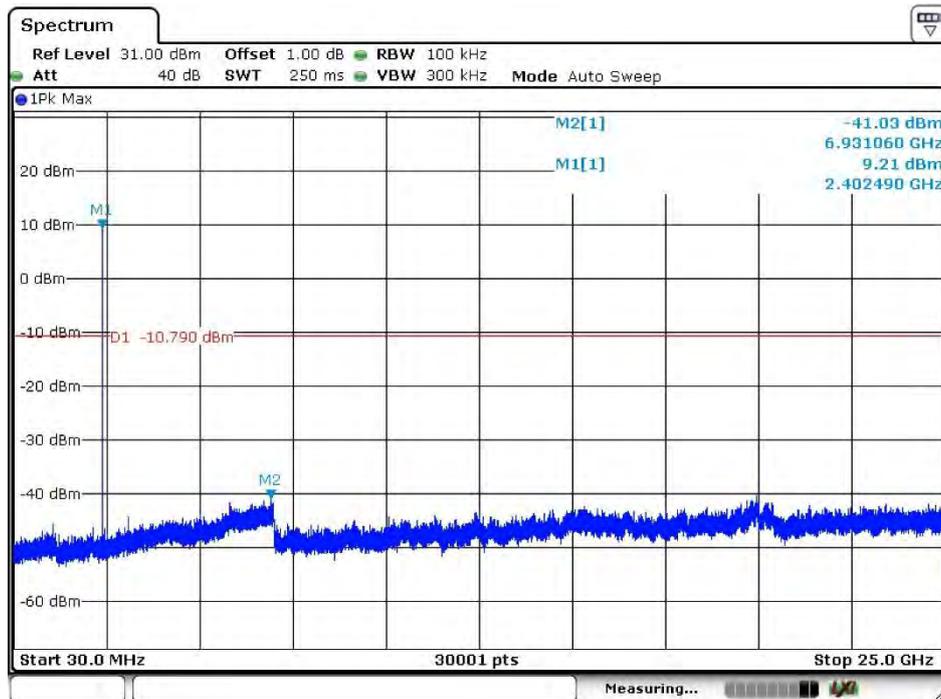
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### 4.8.1.6 GFSK 2M\_ANT1\_Highest Channel



Date: 8 JAN 2021 10:09:58

### 4.8.1.7 GFSK 1M\_ANT2\_Lowest Channel

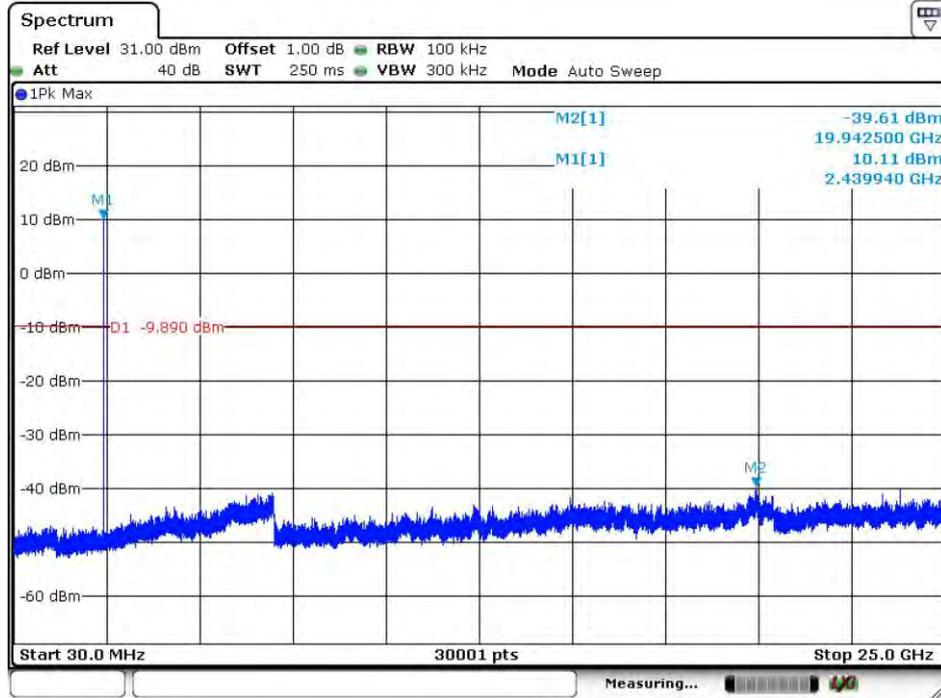


Date: 14 JAN 2021 11:42:22



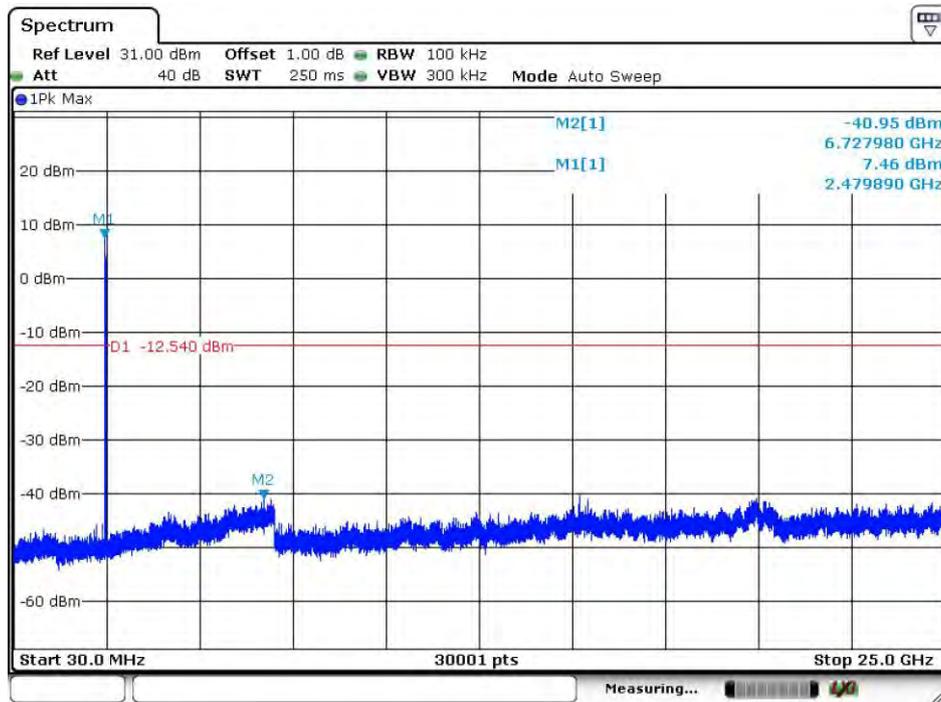
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### 4.8.1.8 GFSK 1M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:43:09

### 4.8.1.9 GFSK 1M\_ANT2\_Highest Channel

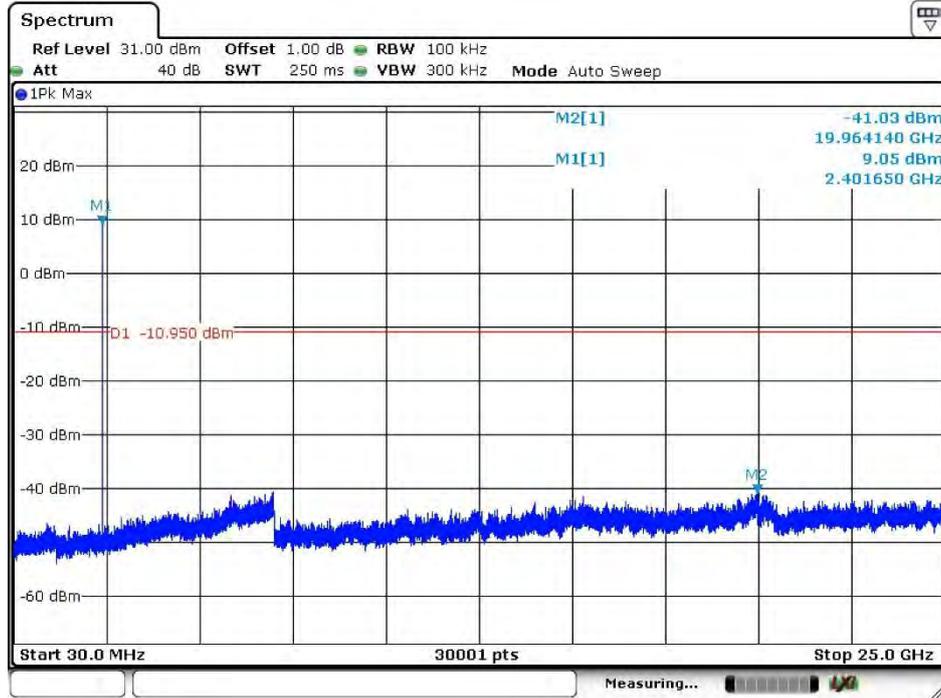


Date: 14.JAN.2021 11:43:36



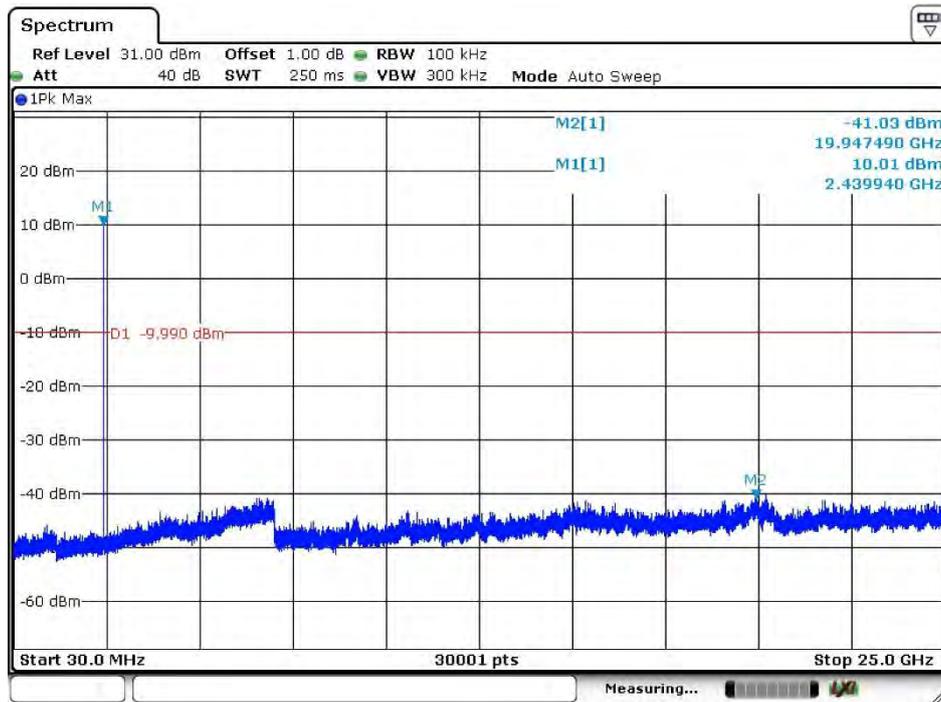
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### 4.8.1.10 GFSK 2M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:44:36

### 4.8.1.11 GFSK 2M\_ANT2\_Middle Channel

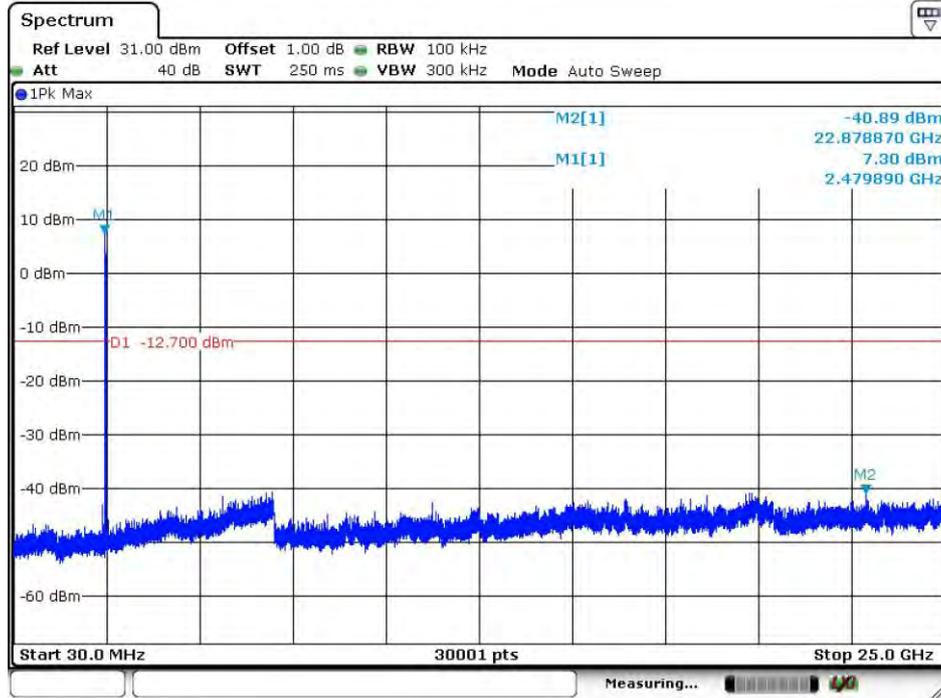


Date: 14.JAN.2021 11:45:33



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4.8.1.12 GFSK 2M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:44:05

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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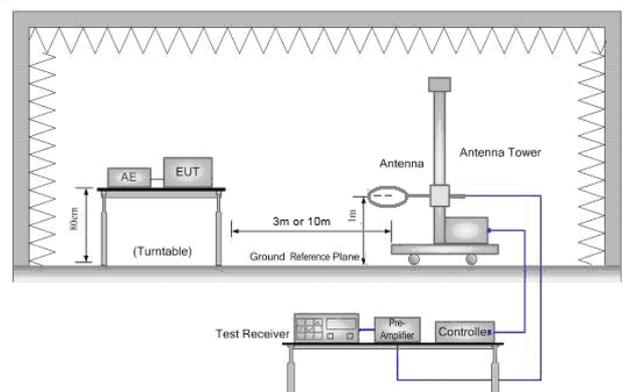
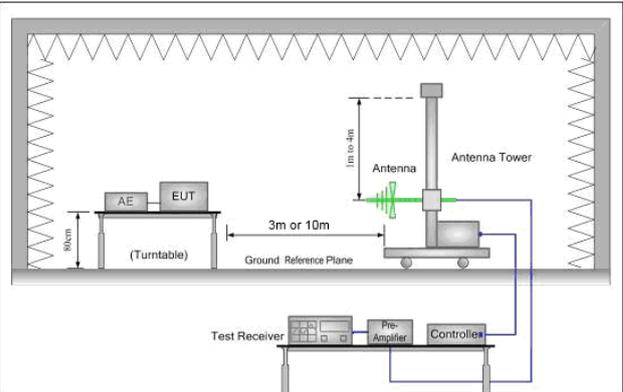
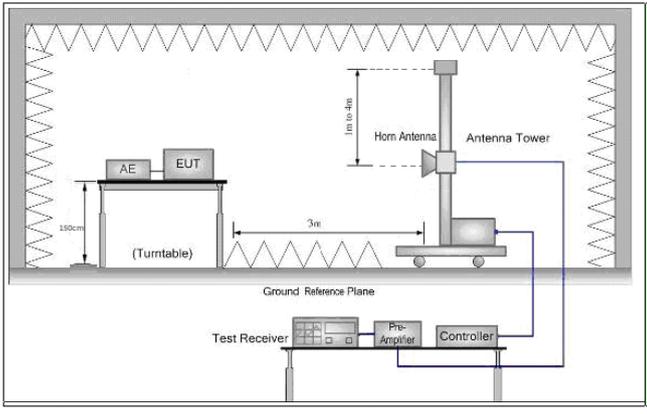
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### 4.9 Radiated Spurious Emissions

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	100kHz	30kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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<p><b>Test Setup:</b></p>		
		
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>	
		
<p>Figure 3. Above 1 GHz</p>		
<p><b>Test Procedure:</b></p>	<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>Use the following spectrum analyzer settings:             <ol style="list-style-type: none"> <li>Span shall wide enough to fully capture the emission being measured;</li> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz, RBW=1MHz for <math>f &gt; 1</math>GHz ; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak</li> <li>For average measurement: use duty cycle correction factor method per 15.35(c).</li> </ol> </li> </ol>	



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	<p>Duty cycle = On time/100 milliseconds  On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math>  Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.  Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</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. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

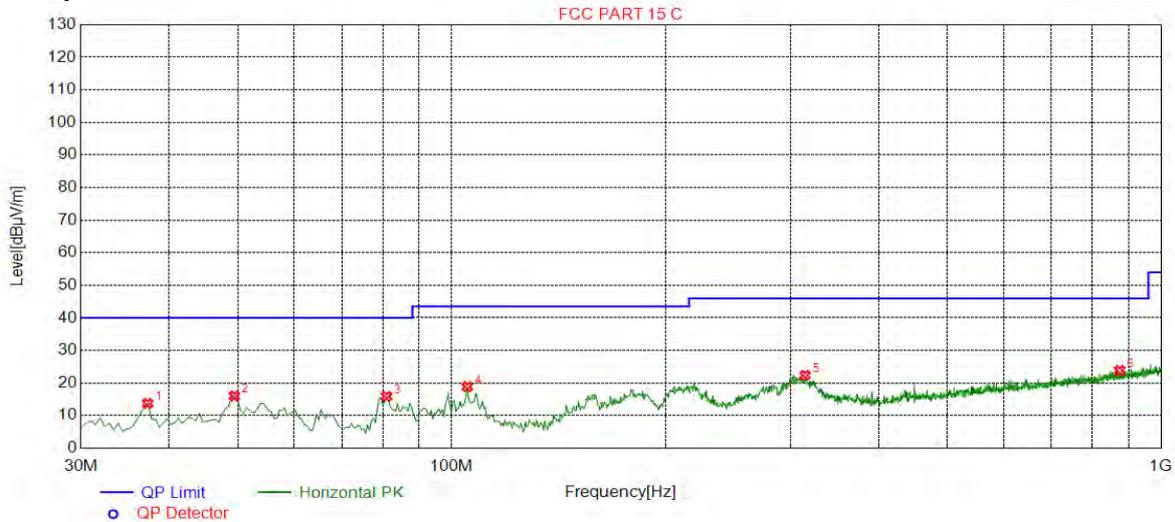


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4.9.1 Radiated Emission below 1GHz

4.9.1.1 Charge + Transmitting

Test Graph



Suspected List

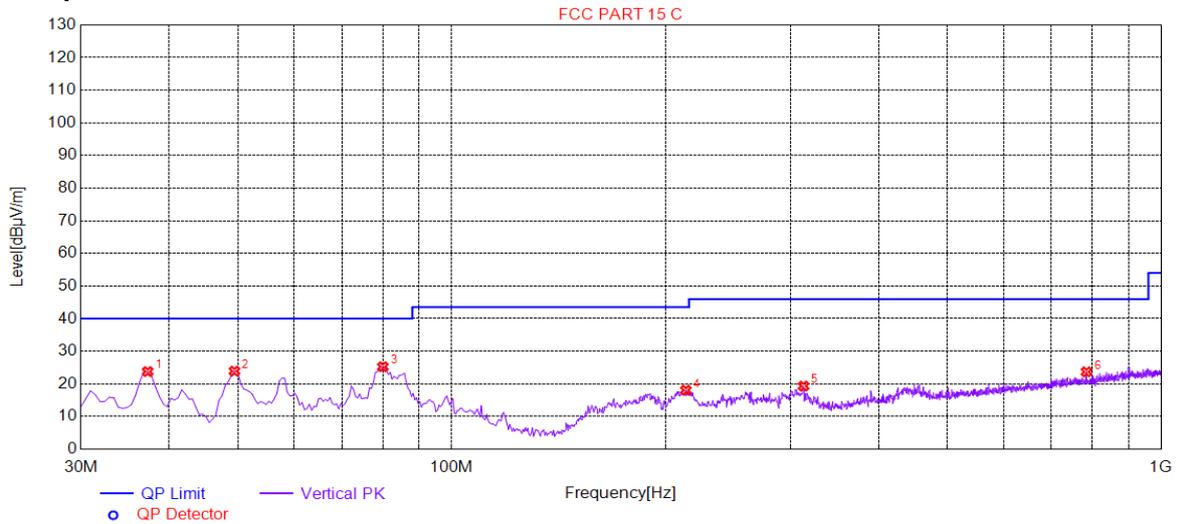
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	13.76	40.00	26.24	150	260	Horizontal
2	49.4097	16.06	40.00	23.94	150	257	Horizontal
3	80.9505	15.91	40.00	24.09	150	260	Horizontal
4	105.2126	18.92	43.50	24.58	150	96	Horizontal
5	314.8374	22.42	46.00	23.58	150	167	Horizontal
6	874.3222	23.86	46.00	22.14	150	96	Horizontal

Final Data List



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Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	23.80	40.00	16.20	150	236	Vertical
2	49.4097	23.94	40.00	16.06	150	329	Vertical
3	79.9800	25.29	40.00	14.71	150	239	Vertical
4	213.9070	18.09	43.50	25.41	150	304	Vertical
5	313.3817	19.36	46.00	26.64	150	326	Vertical
6	785.0375	23.72	46.00	22.28	150	155	Vertical

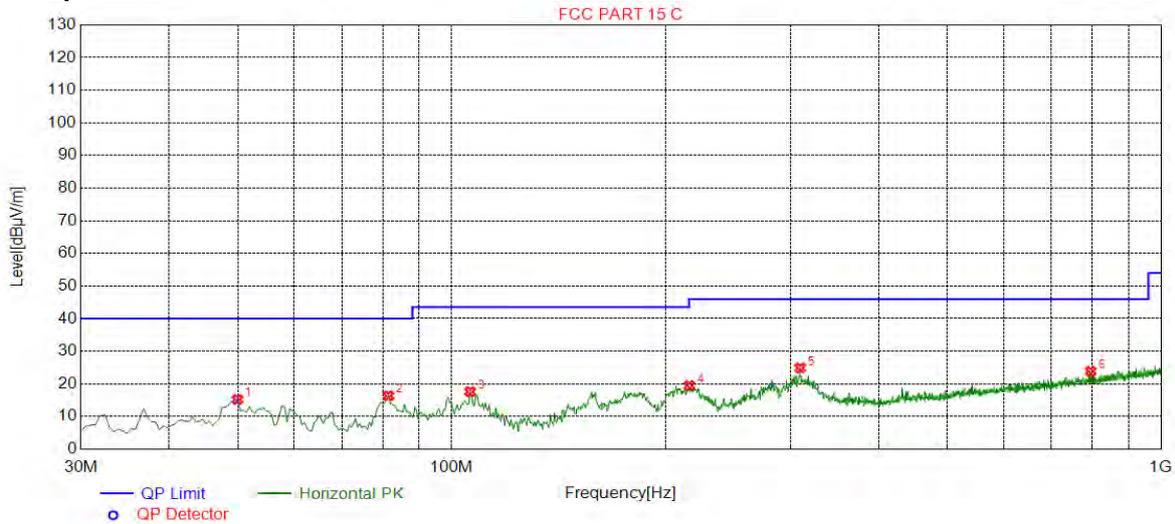
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### Test Graph



### Suspected List

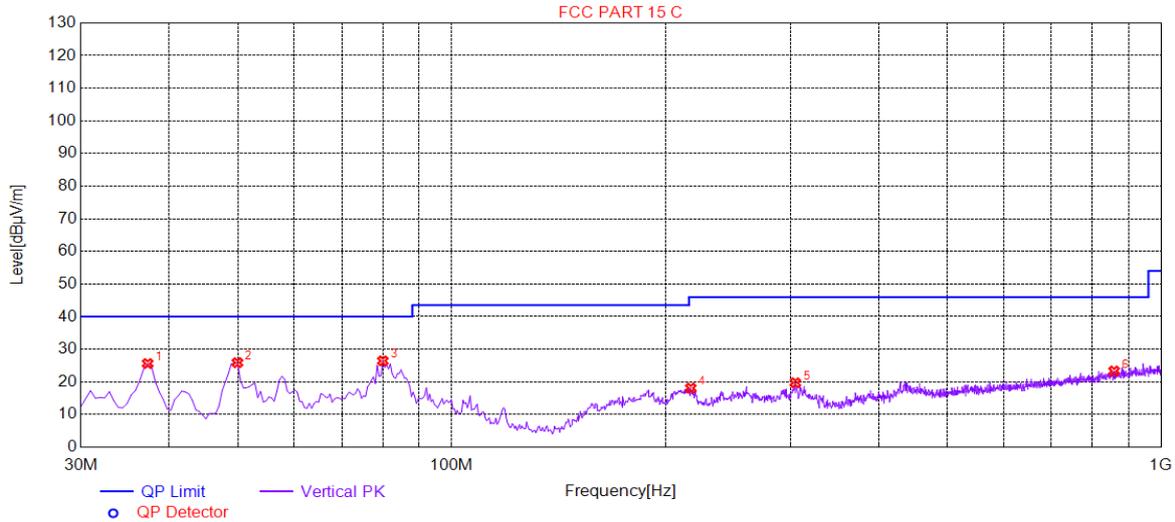
Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.8949	15.24	40.00	24.76	150	250	Horizontal
2	81.4357	16.40	40.00	23.60	150	244	Horizontal
3	106.1831	17.66	43.50	25.84	150	250	Horizontal
4	216.3332	19.52	46.00	26.48	150	210	Horizontal
5	309.9850	24.92	46.00	21.08	150	338	Horizontal
6	796.1981	23.88	46.00	22.12	150	7	Horizontal

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**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	25.66	40.00	14.34	150	338	Vertical
2	49.8949	25.91	40.00	14.09	150	360	Vertical
3	79.9800	26.47	40.00	13.53	150	226	Vertical
4	217.3037	18.12	46.00	27.88	150	37	Vertical
5	305.1326	19.74	46.00	26.26	150	359	Vertical
6	858.7944	23.36	46.00	22.64	150	121	Vertical

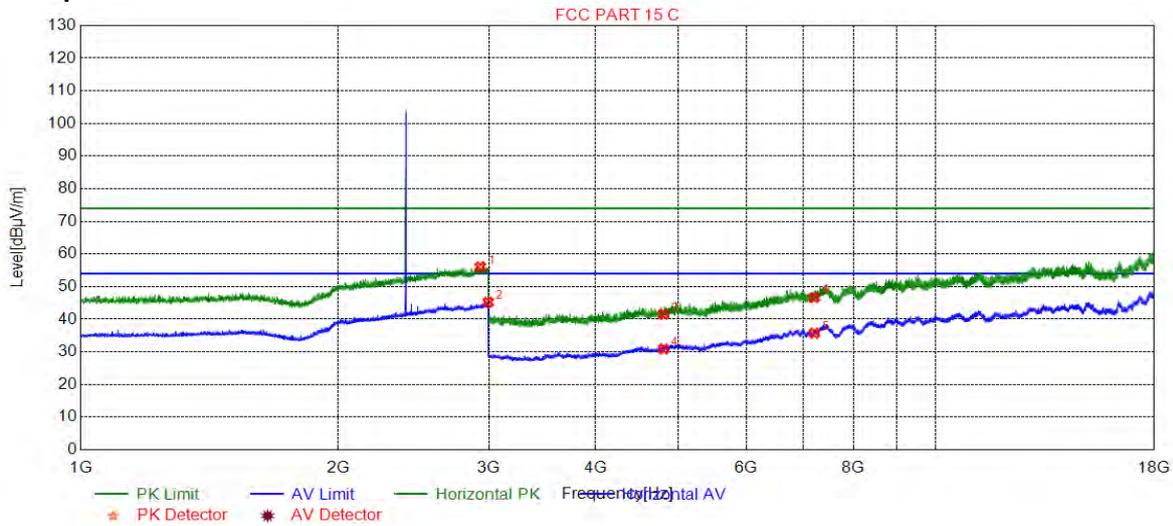
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4.9.2 Transmitter Emission above 1GHz  
4.9.2.1 BLE\_1M\_Channel 0 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2931.983	56.08	74.00	17.92	150	0	Horizontal
2	2993.998	45.23	54.00	8.77	150	74	Horizontal
3	4804.000	41.53	74.00	32.47	150	329	Horizontal
4	4804.000	30.93	54.00	23.07	150	312	Horizontal
5	7206.000	35.75	54.00	18.25	150	105	Horizontal
6	7206.000	46.68	74.00	27.32	150	19	Horizontal

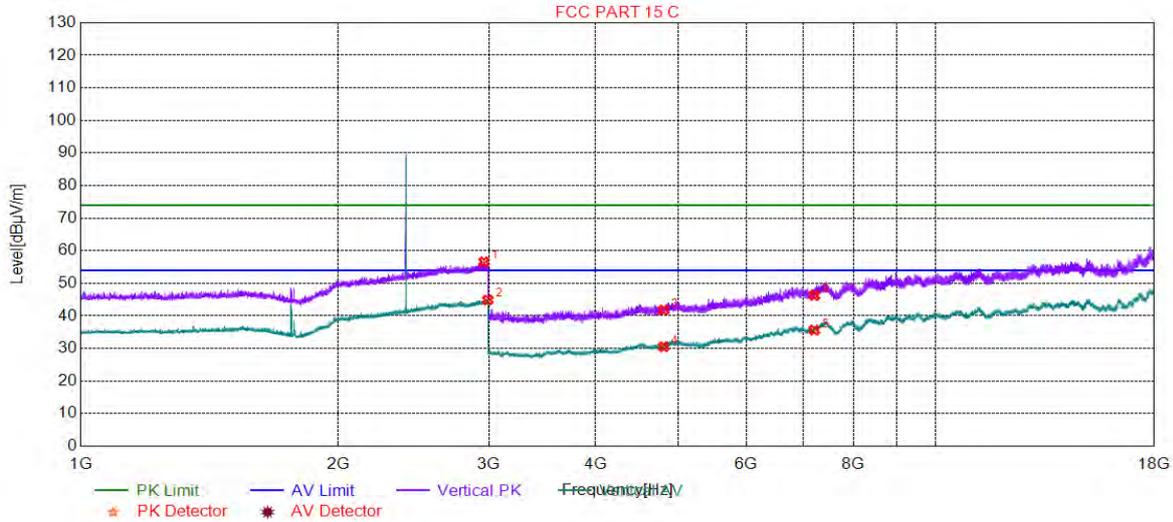
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4.9.2.2 BLE\_1M\_Channel 0 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.490	56.61	74.00	17.39	150	42	Vertical
2	2991.998	44.91	54.00	9.09	150	266	Vertical
3	4804.000	41.81	74.00	32.19	150	255	Vertical
4	4804.000	30.55	54.00	23.45	150	237	Vertical
5	7206.000	35.66	54.00	18.34	150	203	Vertical
6	7206.000	46.30	74.00	27.70	150	255	Vertical

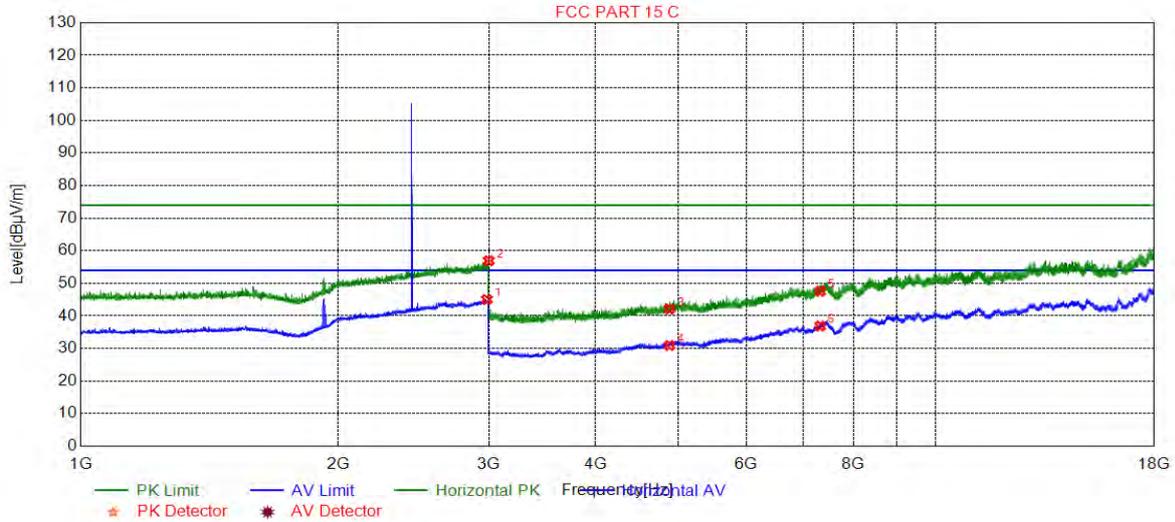
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4.9.2.3 BLE\_1M\_Channel 19 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2984.496	45.06	54.00	8.94	150	121	Horizontal
2	3000.000	56.94	74.00	17.06	150	220	Horizontal
3	4880.000	42.13	74.00	31.87	150	226	Horizontal
4	4880.000	30.93	54.00	23.07	150	87	Horizontal
5	7320.000	47.59	74.00	26.41	150	191	Horizontal
6	7320.000	36.90	54.00	17.10	150	36	Horizontal

Final Data List

(This area is intentionally left blank for the final data list.)

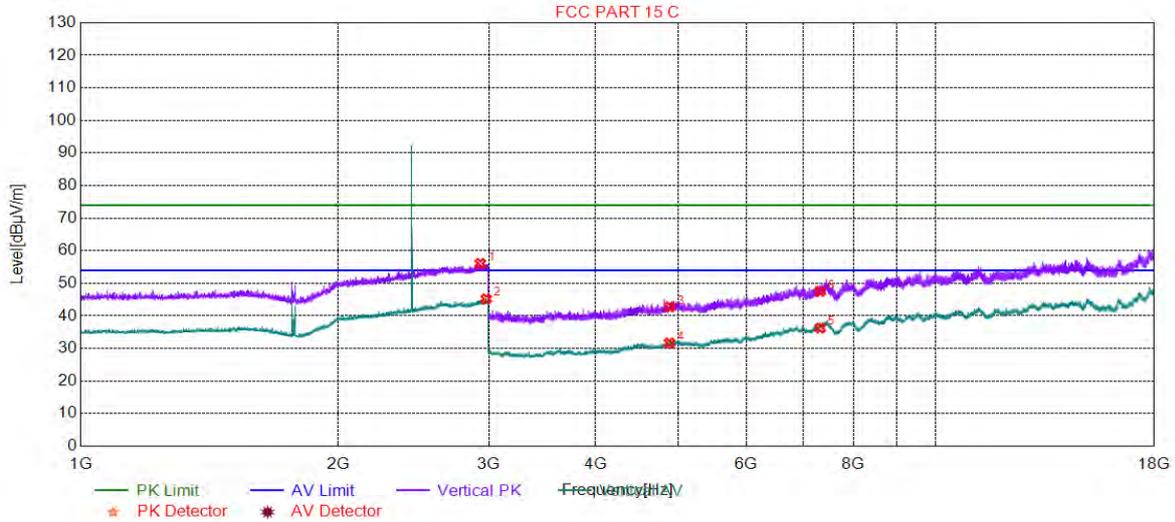


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4.9.2.4 BLE\_1M\_Channel 19 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2931.983	56.11	74.00	17.89	150	249	Vertical
2	2978.494	45.24	54.00	8.76	150	4	Vertical
3	4880.000	42.80	74.00	31.20	150	65	Vertical
4	4880.000	31.69	54.00	22.31	150	134	Vertical
5	7320.000	36.29	54.00	17.71	150	82	Vertical
6	7320.000	47.53	74.00	26.47	150	254	Vertical

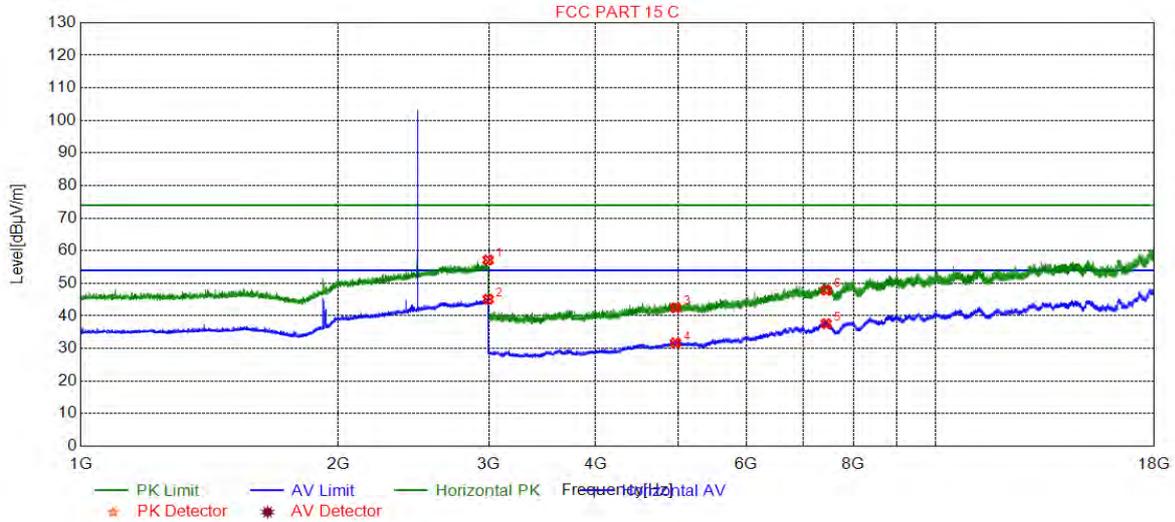
Final Data List



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4.9.2.5 BLE\_1M\_Channel 39 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2994.498	57.16	74.00	16.84	150	120	Horizontal
2	2994.498	45.13	54.00	8.87	150	156	Horizontal
3	4960.000	42.51	74.00	31.49	150	87	Horizontal
4	4960.000	31.72	54.00	22.28	150	260	Horizontal
5	7440.000	37.62	54.00	16.38	150	260	Horizontal
6	7440.000	47.87	74.00	26.13	150	294	Horizontal

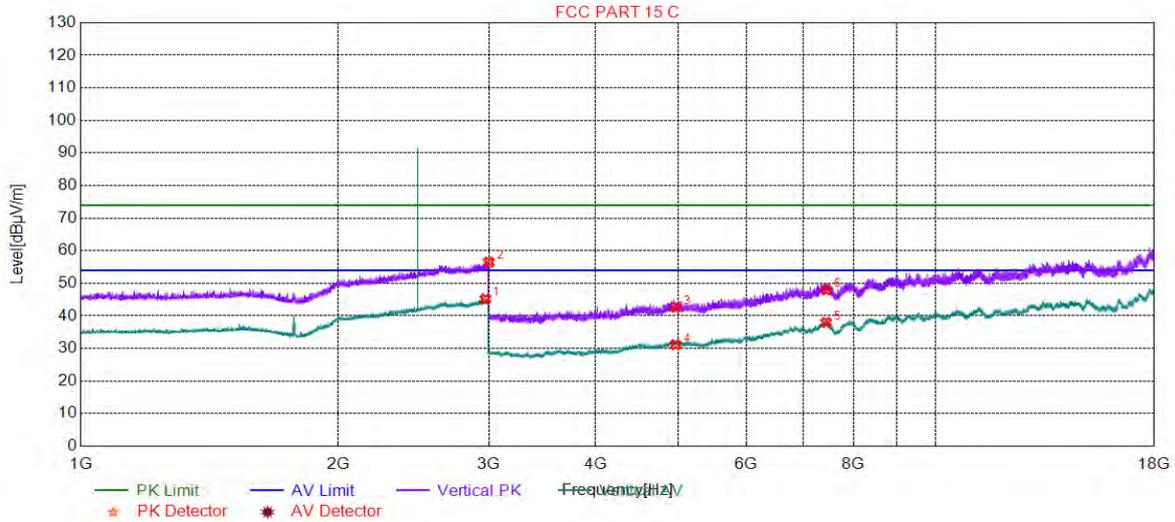
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4.9.2.6 BLE\_1M\_Channel 39 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.493	45.20	54.00	8.80	150	316	Vertical
2	3000.000	56.53	74.00	17.47	150	289	Vertical
3	4960.000	42.66	74.00	31.34	150	290	Vertical
4	4960.000	31.14	54.00	22.86	150	31	Vertical
5	7440.000	38.00	54.00	16.00	150	237	Vertical
6	7440.000	47.96	74.00	26.04	150	14	Vertical

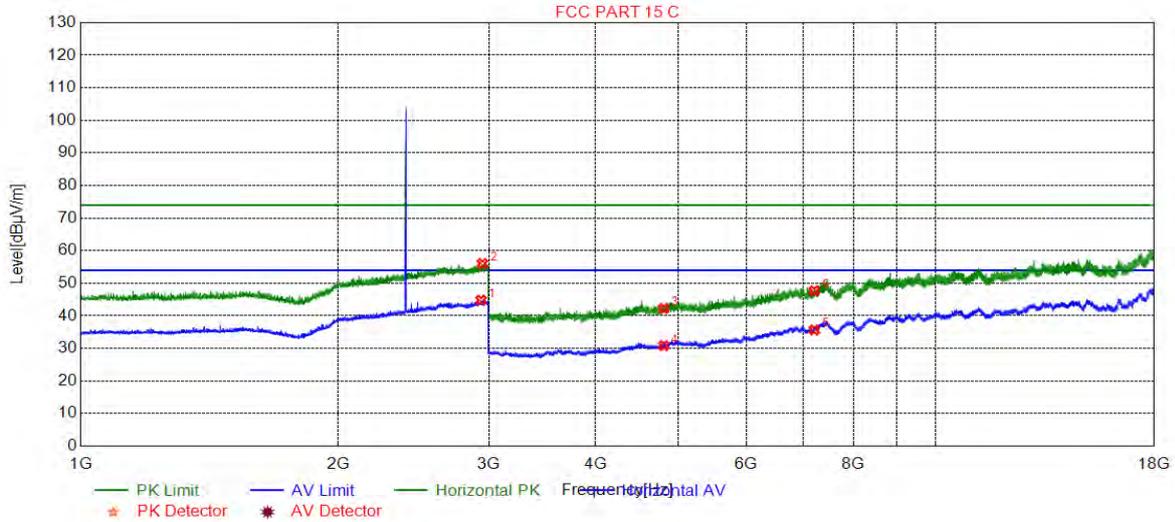
Final Data List



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4.9.2.1 BLE\_2M\_Channel 0 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.484	44.83	54.00	9.17	150	43	Horizontal
2	2948.487	56.06	74.00	17.94	150	158	Horizontal
3	4804.000	42.27	74.00	31.73	150	209	Horizontal
4	4804.000	30.87	54.00	23.13	150	19	Horizontal
5	7206.000	35.68	54.00	18.32	150	243	Horizontal
6	7206.000	47.69	74.00	26.31	150	36	Horizontal

Final Data List

(This section is intentionally left blank in the provided image.)

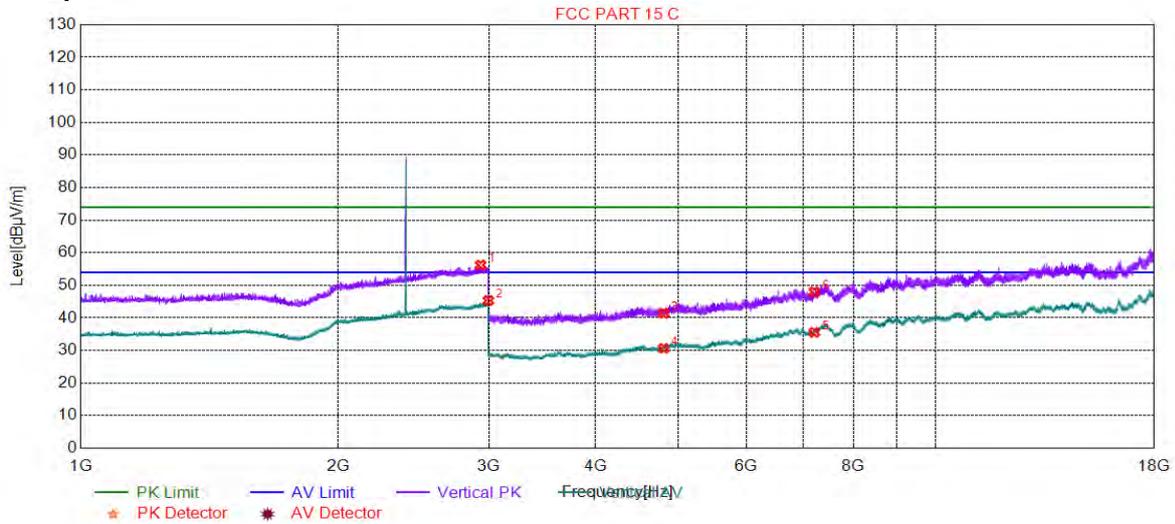


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4.9.2.2 BLE\_2M\_Channel 0 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.483	56.25	74.00	17.75	150	14	Vertical
2	2996.499	45.34	54.00	8.66	150	304	Vertical
3	4804.000	41.40	74.00	32.60	150	359	Vertical
4	4804.000	30.68	54.00	23.32	150	359	Vertical
5	7206.000	35.58	54.00	18.42	150	152	Vertical
6	7206.000	48.03	74.00	25.97	150	186	Vertical

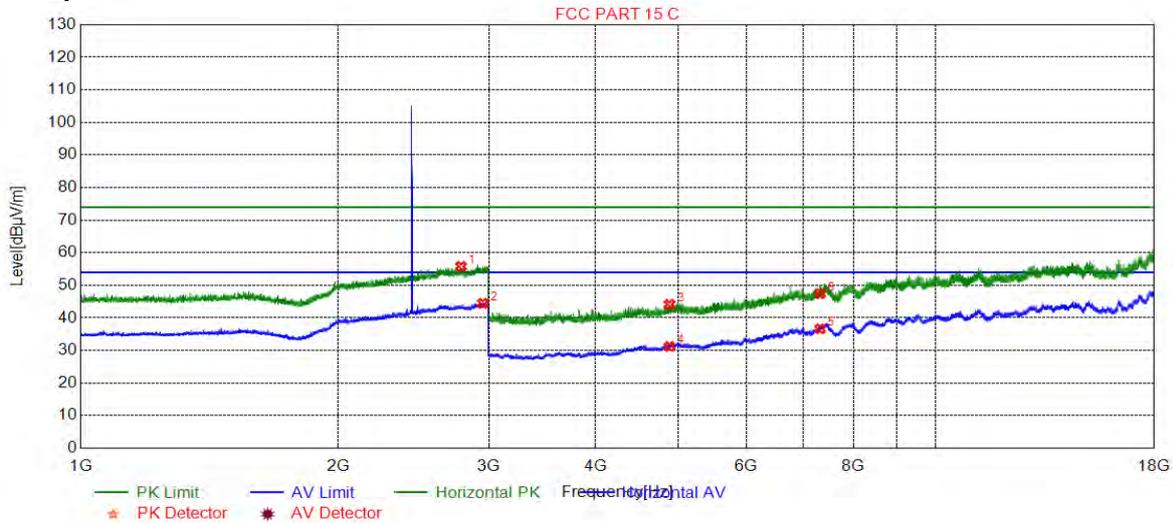
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4.9.2.3 BLE\_2M\_Channel 19 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2784.446	55.80	74.00	18.20	150	326	Horizontal
2	2951.988	44.50	54.00	9.50	150	300	Horizontal
3	4880.000	44.14	74.00	29.86	150	34	Horizontal
4	4880.000	31.25	54.00	22.75	150	121	Horizontal
5	7320.000	36.65	54.00	17.35	150	52	Horizontal
6	7320.000	47.45	74.00	26.55	150	69	Horizontal

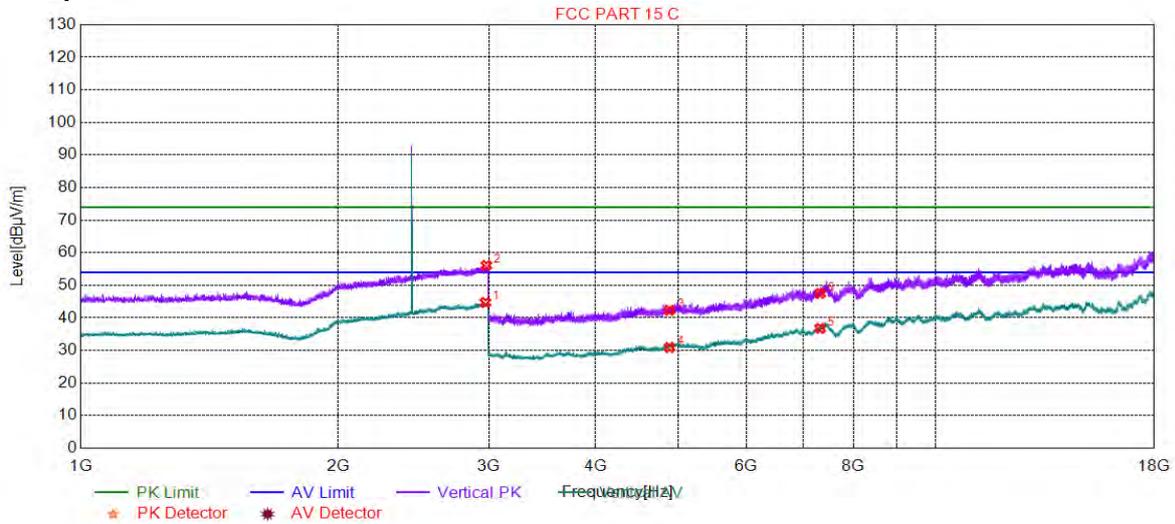
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4.9.2.4 BLE\_2M\_Channel 19 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.493	44.75	54.00	9.25	150	45	Vertical
2	2980.495	56.12	74.00	17.88	150	149	Vertical
3	4880.000	42.29	74.00	31.71	150	66	Vertical
4	4880.000	30.94	54.00	23.06	150	83	Vertical
5	7320.000	36.81	54.00	17.19	150	272	Vertical
6	7320.000	47.53	74.00	26.47	150	169	Vertical

Final Data List

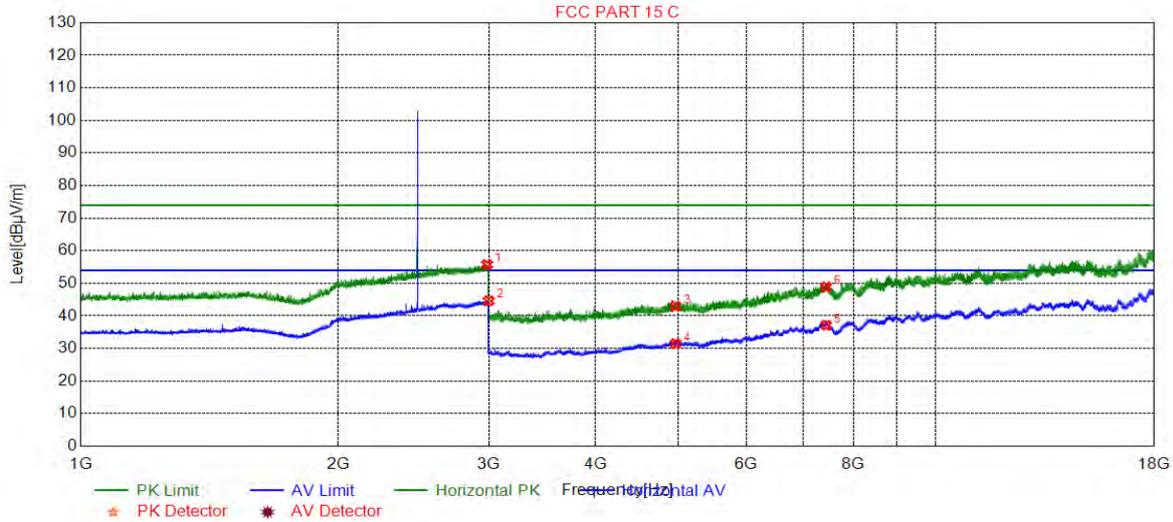


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4.9.2.5 BLE\_2M\_Channel 39 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2985.996	55.77	74.00	18.23	150	105	Horizontal
2	2999.499	44.63	54.00	9.37	150	225	Horizontal
3	4960.000	42.97	74.00	31.03	150	137	Horizontal
4	4960.000	31.49	54.00	22.51	150	311	Horizontal
5	7440.000	37.13	54.00	16.87	150	155	Horizontal
6	7440.000	48.90	74.00	25.10	150	346	Horizontal

Final Data List

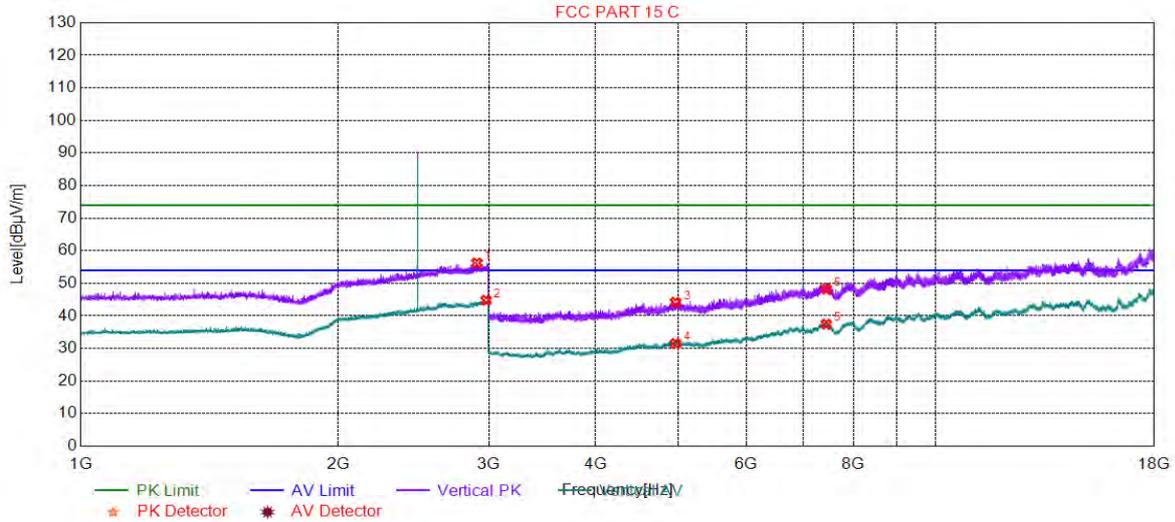


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4.9.2.6 BLE\_2M\_Channel 39 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2904.476	56.27	74.00	17.73	150	93	Vertical
2	2977.994	44.82	54.00	9.18	150	347	Vertical
3	4960.000	44.16	74.00	29.84	150	117	Vertical
4	4960.000	31.52	54.00	22.48	150	82	Vertical
5	7440.000	37.46	54.00	16.54	150	100	Vertical
6	7440.000	48.22	74.00	25.78	150	100	Vertical

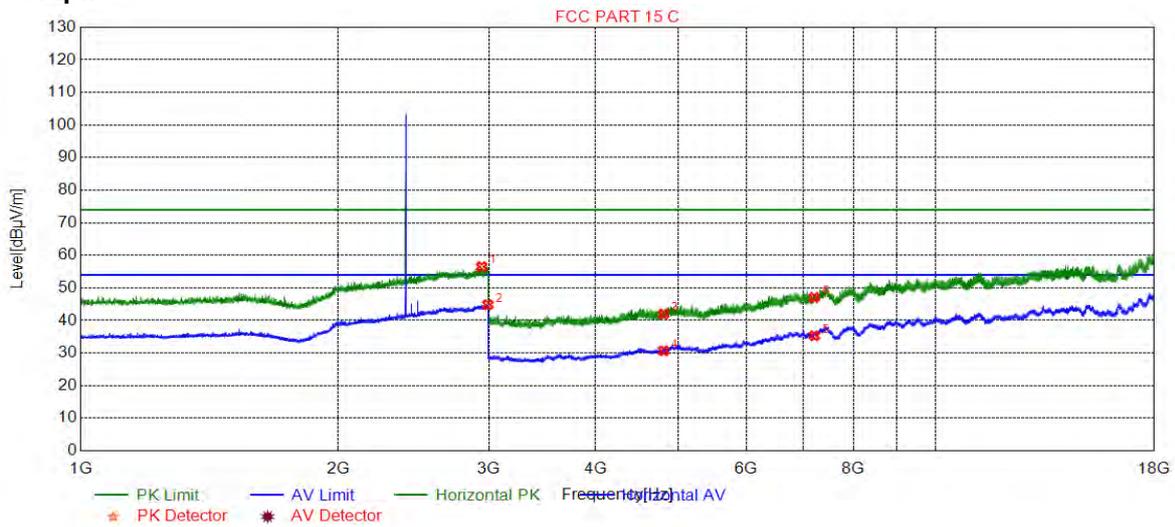
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4.9.2.1 BLE\_1M\_Channel 0 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.985	56.52	74.00	17.48	150	325	Horizontal
2	2992.498	44.86	54.00	9.14	150	172	Horizontal
3	4804.000	42.00	74.00	32.00	150	54	Horizontal
4	4804.000	30.72	54.00	23.28	150	346	Horizontal
5	7206.000	35.33	54.00	18.67	150	1	Horizontal
6	7206.000	47.07	74.00	26.93	150	260	Horizontal

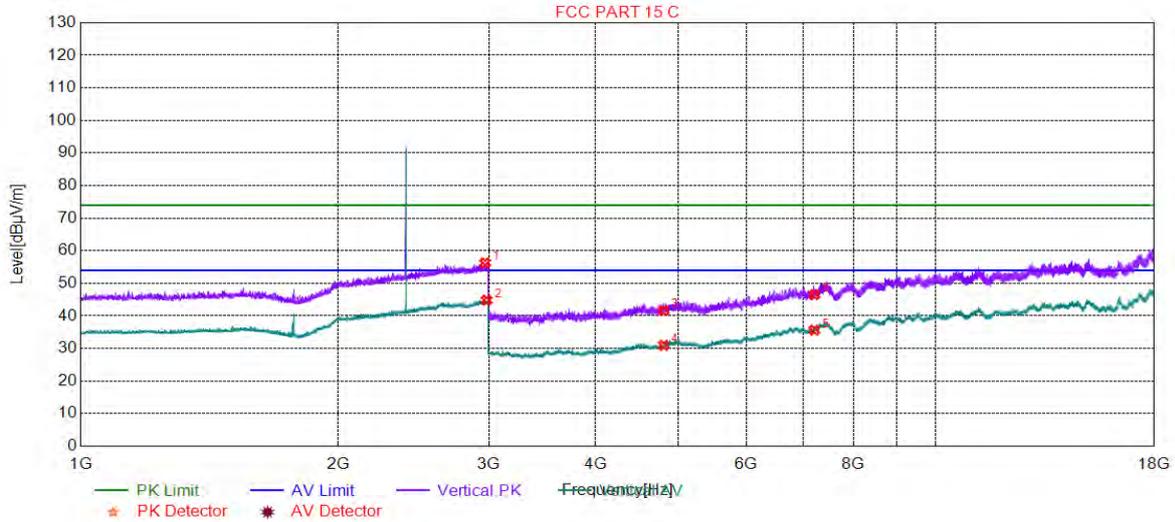
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4.9.2.2 BLE\_1M\_Channel 0 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2969.492	56.31	74.00	17.69	150	119	Vertical
2	2982.495	44.85	54.00	9.15	150	56	Vertical
3	4804.000	41.64	74.00	32.36	150	117	Vertical
4	4804.000	30.97	54.00	23.03	150	185	Vertical
5	7206.000	35.64	54.00	18.36	150	254	Vertical
6	7206.000	46.53	74.00	27.47	150	31	Vertical

Final Data List

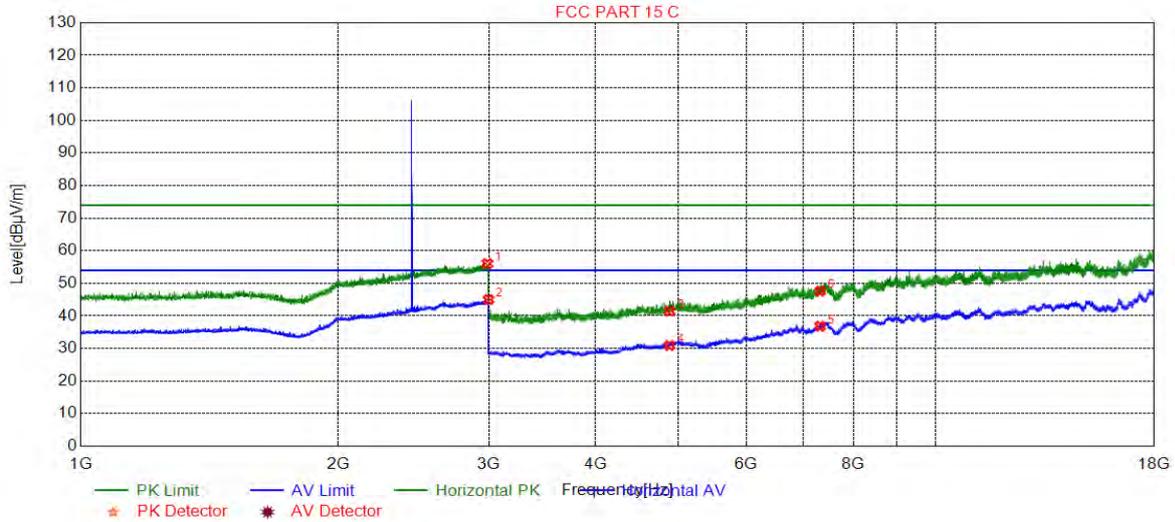


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**4.9.2.3 BLE\_1M\_Channel 19 ANT2**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.497	56.06	74.00	17.94	150	81	Horizontal
2	2997.999	45.02	54.00	8.98	150	113	Horizontal
3	4880.000	41.48	74.00	32.52	150	20	Horizontal
4	4880.000	30.92	54.00	23.08	150	88	Horizontal
5	7320.000	36.84	54.00	17.16	150	260	Horizontal
6	7320.000	47.62	74.00	26.38	150	123	Horizontal

**Final Data List**

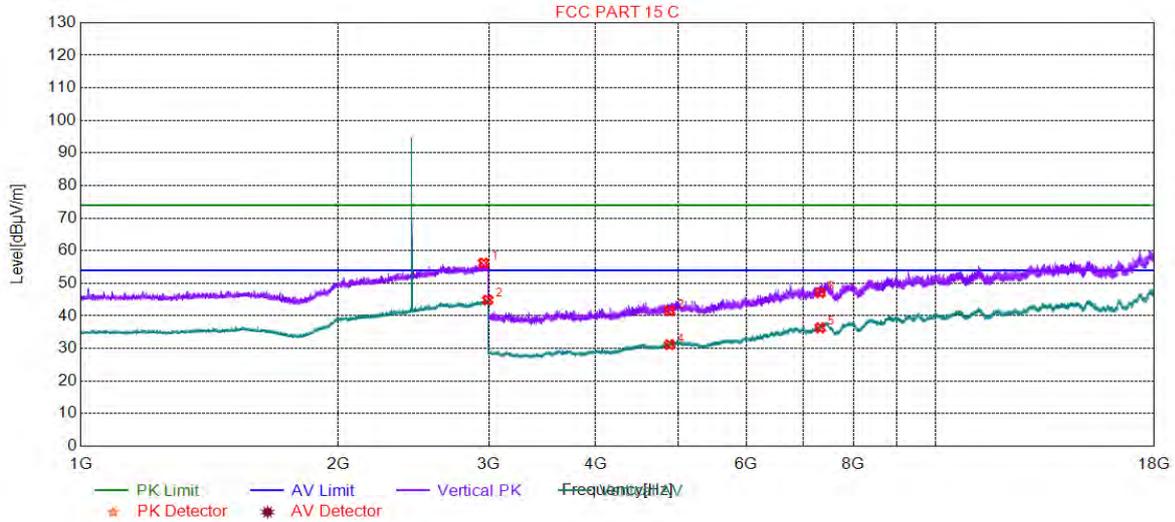
Final Data List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.497	56.06	74.00	17.94	150	81	Horizontal
2	2997.999	45.02	54.00	8.98	150	113	Horizontal
3	4880.000	41.48	74.00	32.52	150	20	Horizontal
4	4880.000	30.92	54.00	23.08	150	88	Horizontal
5	7320.000	36.84	54.00	17.16	150	260	Horizontal
6	7320.000	47.62	74.00	26.38	150	123	Horizontal



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4.9.2.4 BLE\_1M\_Channel 19 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.489	56.26	74.00	17.74	150	182	Vertical
2	2990.997	44.90	54.00	9.10	150	95	Vertical
3	4880.000	41.57	74.00	32.43	150	357	Vertical
4	4880.000	31.18	54.00	22.82	150	340	Vertical
5	7320.000	36.35	54.00	17.65	150	168	Vertical
6	7320.000	47.10	74.00	26.90	150	271	Vertical

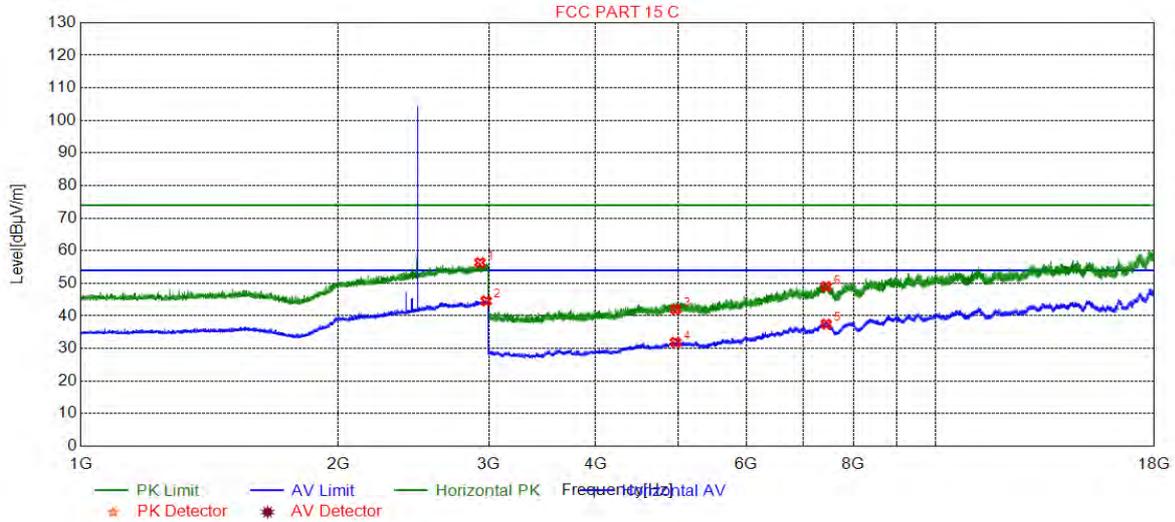
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4.9.2.5 BLE\_1M\_Channel 39 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2929.482	56.35	74.00	17.65	150	146	Horizontal
2	2978.494	44.60	54.00	9.40	150	331	Horizontal
3	4960.000	41.98	74.00	32.02	150	19	Horizontal
4	4960.000	31.89	54.00	22.11	150	294	Horizontal
5	7440.000	37.47	54.00	16.53	150	243	Horizontal
6	7440.000	49.01	74.00	24.99	150	19	Horizontal

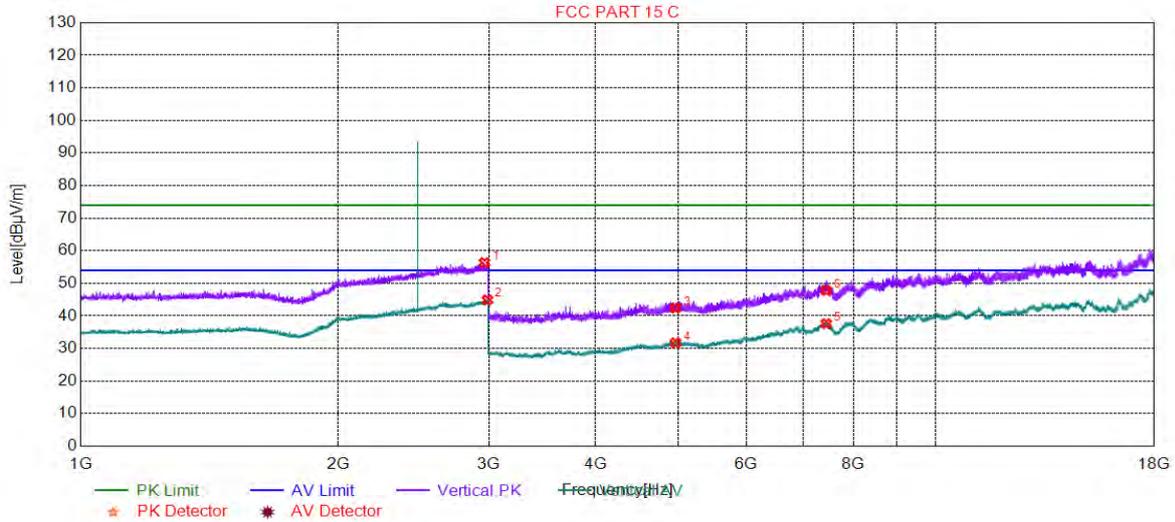
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4.9.2.6 BLE\_1M\_Channel 39 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.491	56.34	74.00	17.66	150	291	Vertical
2	2988.997	44.92	54.00	9.08	150	204	Vertical
3	4960.000	42.41	74.00	31.59	150	14	Vertical
4	4960.000	31.74	54.00	22.26	150	82	Vertical
5	7440.000	37.62	54.00	16.38	150	117	Vertical
6	7440.000	47.79	74.00	26.21	150	65	Vertical

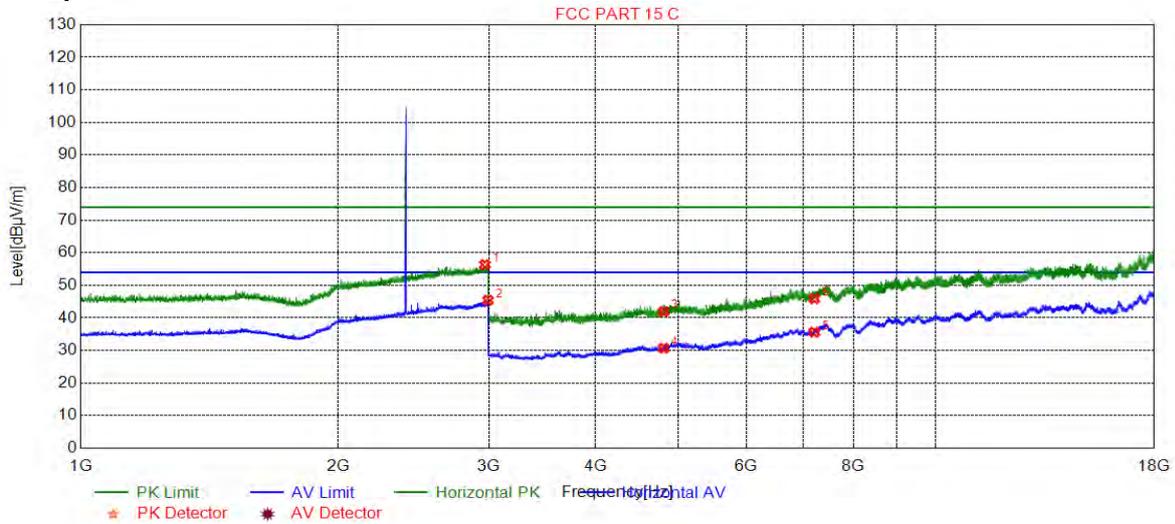
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4.9.2.1 BLE\_2M\_Channel 0 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2967.992	56.36	74.00	17.64	150	89	Horizontal
2	2993.498	45.43	54.00	8.57	150	178	Horizontal
3	4804.000	41.92	74.00	32.08	150	122	Horizontal
4	4804.000	30.73	54.00	23.27	150	53	Horizontal
5	7206.000	35.63	54.00	18.37	150	346	Horizontal
6	7206.000	45.89	74.00	28.11	150	346	Horizontal

Final Data List

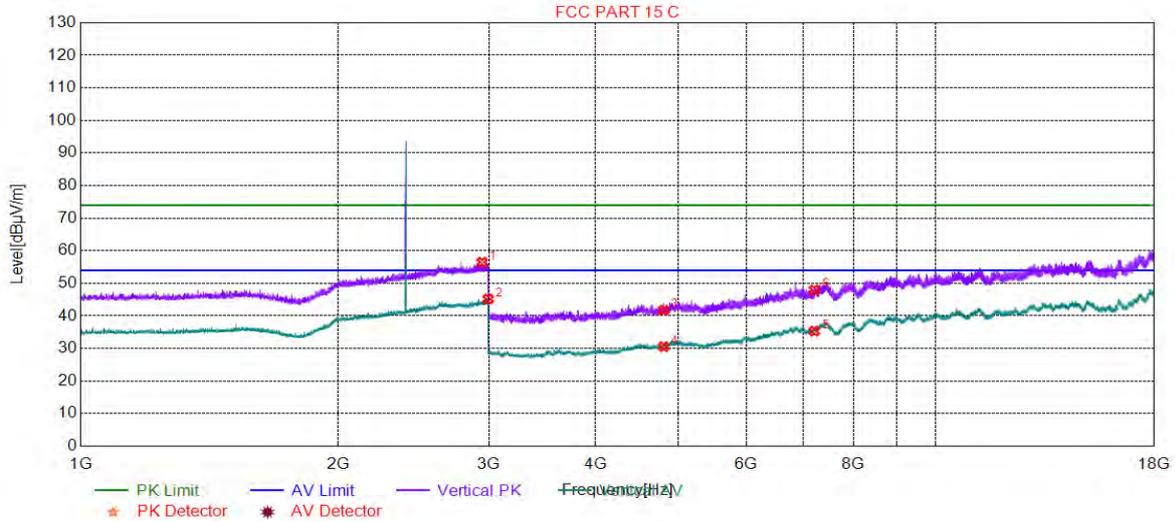


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4.9.2.2 BLE\_2M\_Channel 0 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.486	56.47	74.00	17.53	150	213	Vertical
2	2994.998	45.18	54.00	8.82	150	335	Vertical
3	4804.000	41.72	74.00	32.28	150	324	Vertical
4	4804.000	30.58	54.00	23.42	150	65	Vertical
5	7206.000	35.34	54.00	18.66	150	237	Vertical
6	7206.000	47.98	74.00	26.02	150	168	Vertical

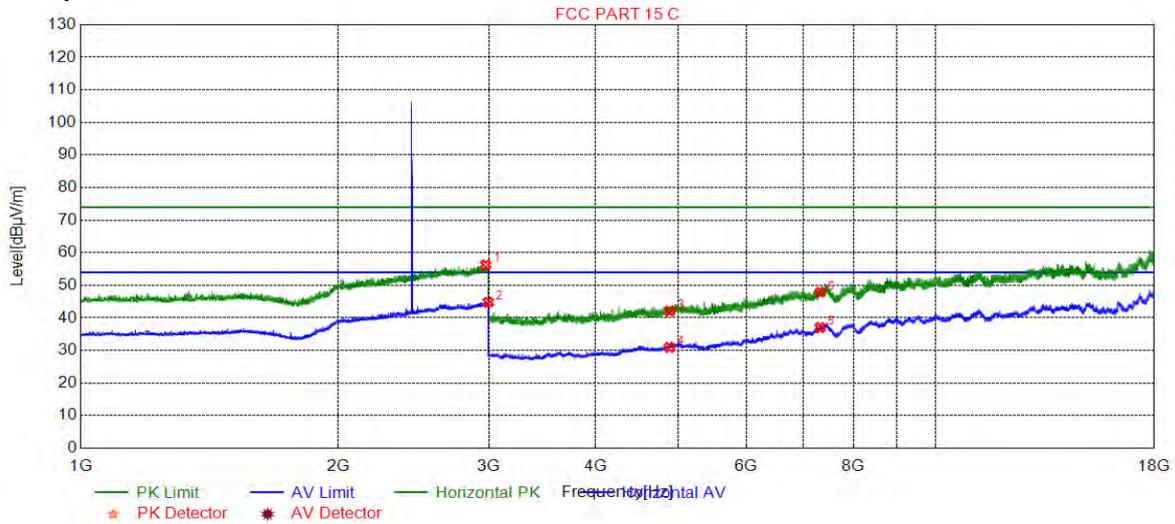
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4.9.2.3 BLE\_2M\_Channel 19 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2974.993	56.31	74.00	17.69	150	115	Horizontal
2	2994.998	44.81	54.00	9.19	150	331	Horizontal
3	4880.000	42.10	74.00	31.90	150	346	Horizontal
4	4880.000	30.96	54.00	23.04	150	86	Horizontal
5	7320.000	37.06	54.00	16.94	150	208	Horizontal
6	7320.000	47.83	74.00	26.17	150	86	Horizontal

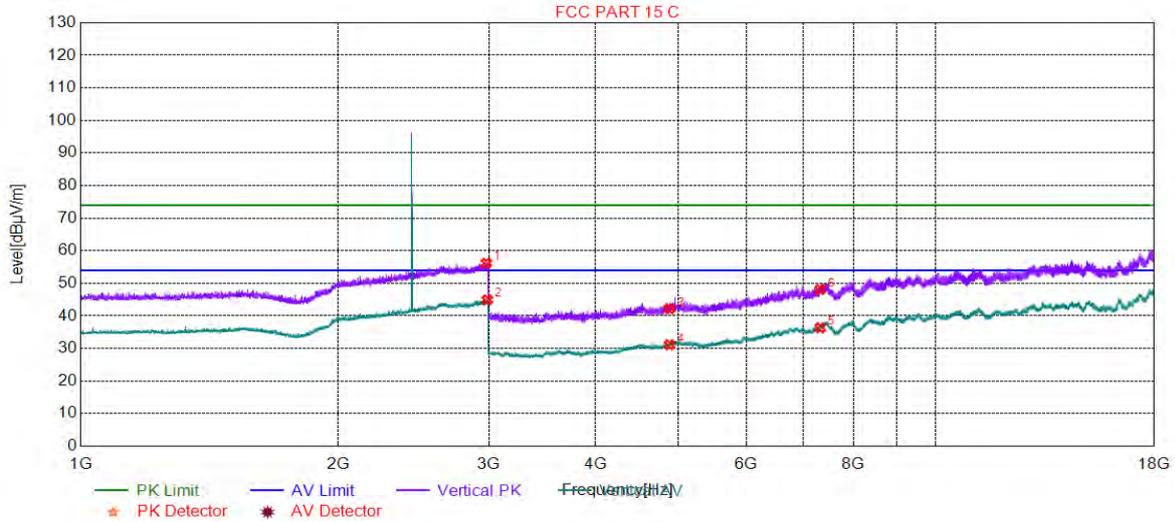
Final Data List



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4.9.2.4 BLE\_2M\_Channel 19 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.495	56.21	74.00	17.79	150	214	Vertical
2	2987.496	44.97	54.00	9.03	150	46	Vertical
3	4880.000	42.19	74.00	31.81	150	240	Vertical
4	4880.000	31.16	54.00	22.84	150	14	Vertical
5	7320.000	36.35	54.00	17.65	150	188	Vertical
6	7320.000	48.09	74.00	25.91	150	309	Vertical

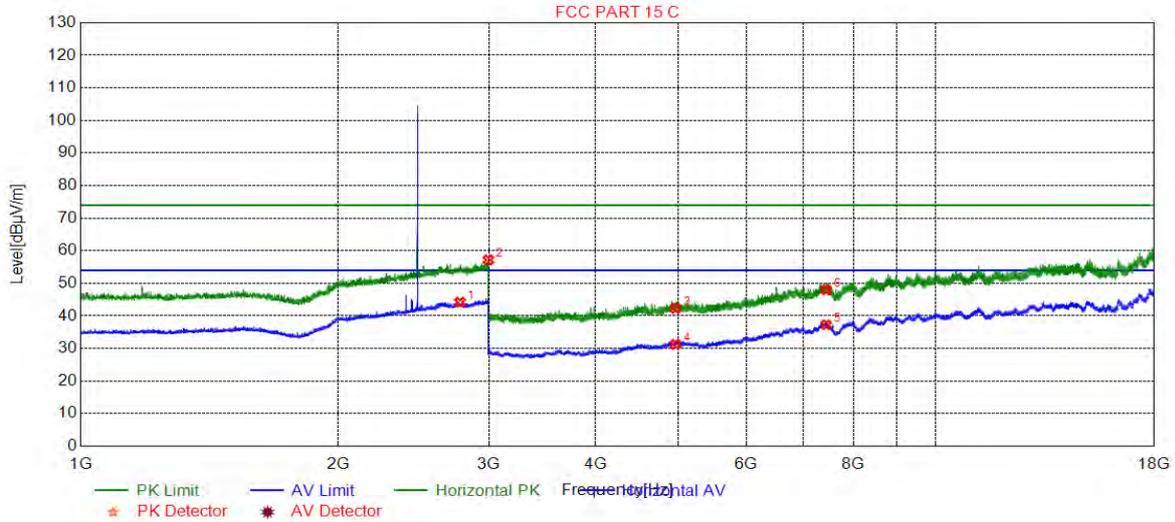
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4.9.2.5 BLE\_2M\_Channel 39 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2775.944	44.21	54.00	9.79	150	0	Horizontal
2	2996.499	57.20	74.00	16.80	150	58	Horizontal
3	4960.000	42.30	74.00	31.70	150	138	Horizontal
4	4960.000	31.27	54.00	22.73	150	243	Horizontal
5	7440.000	37.27	54.00	16.73	150	156	Horizontal
6	7440.000	47.99	74.00	26.01	150	138	Horizontal

Final Data List

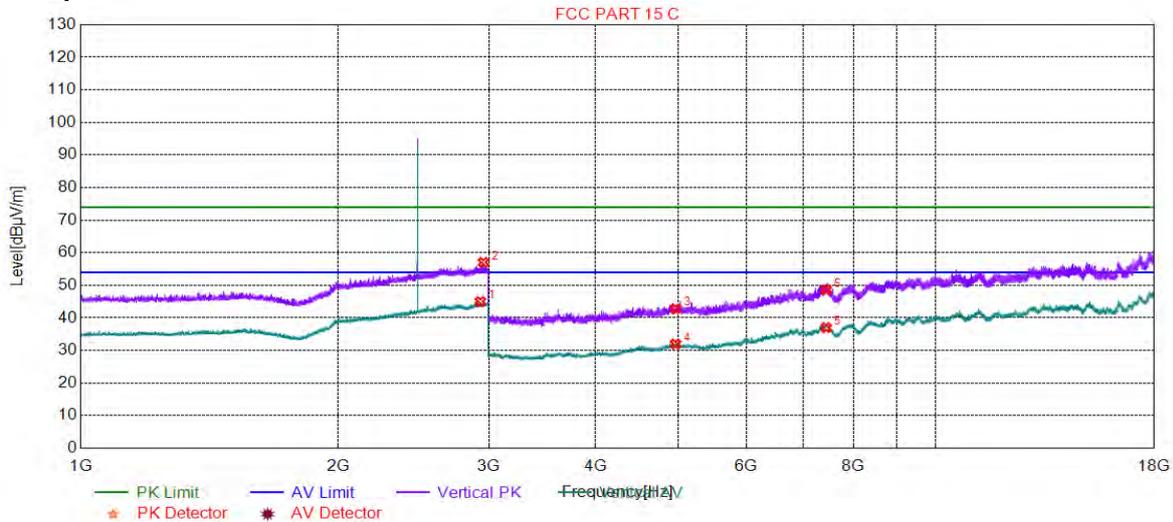


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**4.9.2.6 BLE\_2M\_Channel 39 ANT2**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2932.483	45.03	54.00	8.97	150	332	Vertical
2	2956.489	57.05	74.00	16.95	150	25	Vertical
3	4960.000	42.81	74.00	31.19	150	238	Vertical
4	4960.000	31.97	54.00	22.03	150	289	Vertical
5	7440.000	37.01	54.00	16.99	150	341	Vertical
6	7440.000	48.64	74.00	25.36	150	306	Vertical

**Final Data List**

**Remark:**

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



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### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (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:			

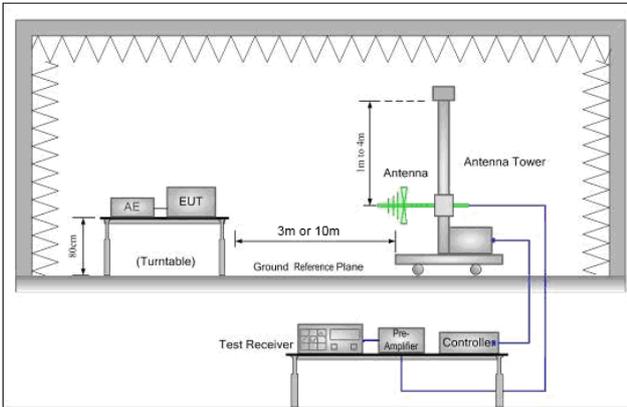


Figure 1. 30MHz to 1GHz

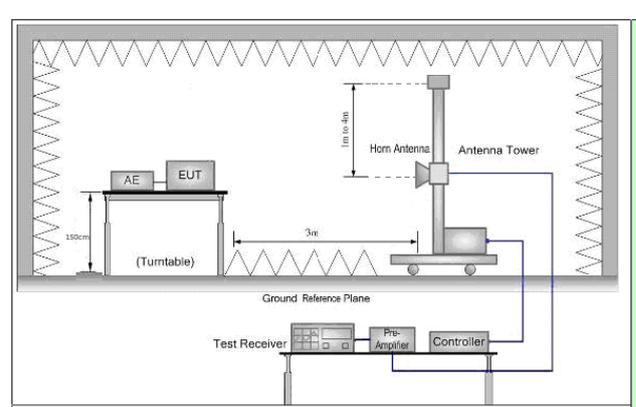


Figure 2. Above 1 GHz

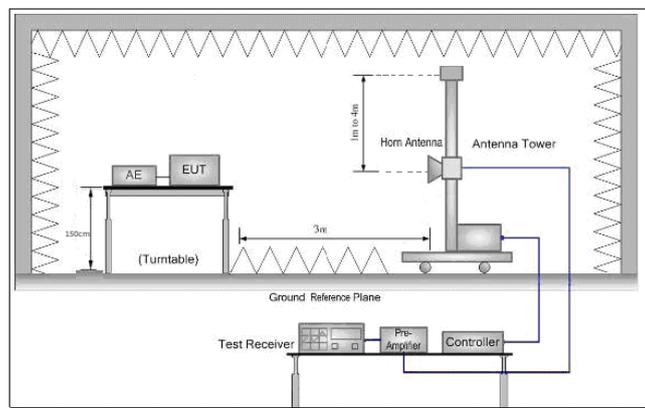


Figure 3. Above 1 GHz



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Test Procedure:	<ul style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

The detailed test data see: **Appendix**

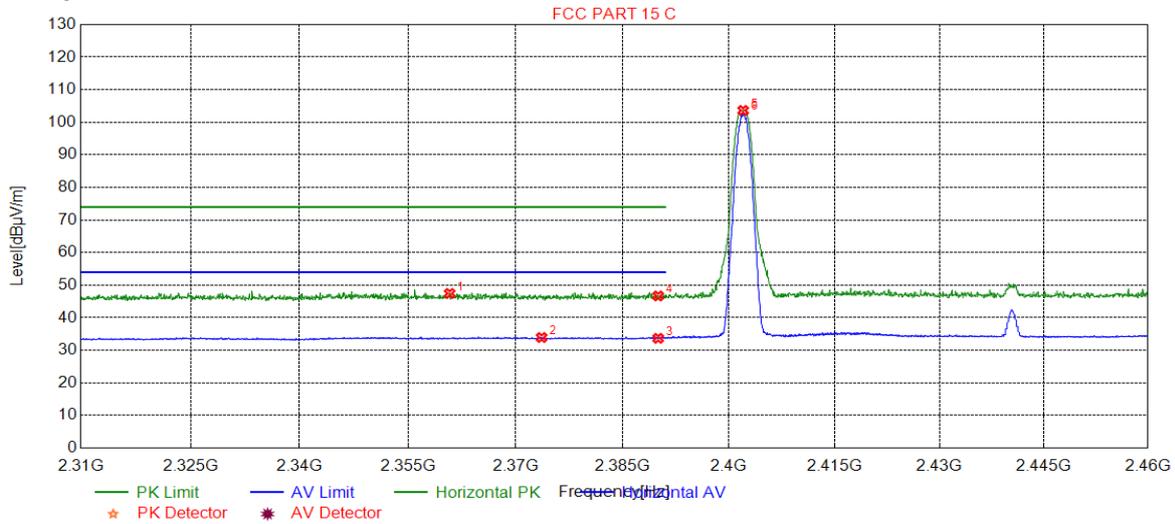


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4.10.1 Test Plots

4.10.1.1 BLE\_1M\_Channel 0 ANT1

Test Graph



Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.800	47.47	74.00	26.53	150	81	Horizontal
2	2373.631	33.95	54.00	20.05	150	262	Horizontal
3	2390.000	33.70	54.00	20.30	150	97	Horizontal
4	2390.000	46.70	74.00	27.30	150	196	Horizontal
5	2402.000	103.65	0.00	-103.65	150	64	Horizontal
6	2402.000	103.17	0.00	-103.17	150	60	Horizontal

Final Data List

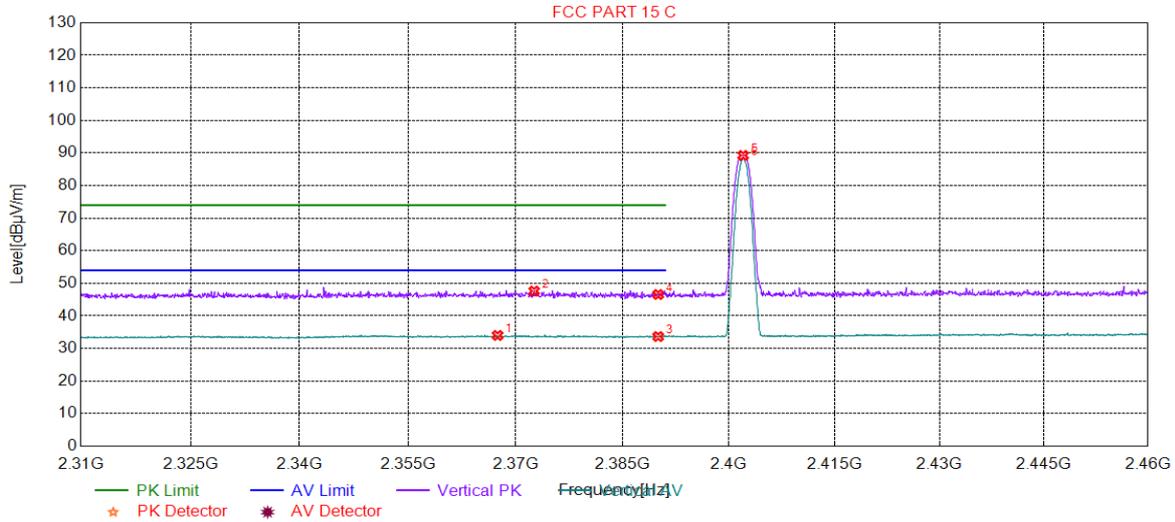


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### 4.10.1.2 BLE\_1M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.478	34.02	54.00	19.98	150	24	Vertical
2	2372.581	47.64	74.00	26.36	150	222	Vertical
3	2390.000	33.68	54.00	20.32	150	150	Vertical
4	2390.000	46.58	74.00	27.42	150	145	Vertical
5	2402.000	89.27	0.00	-89.27	150	230	Vertical
6	2402.000	88.38	0.00	-88.38	150	140	Vertical

#### Final Data List

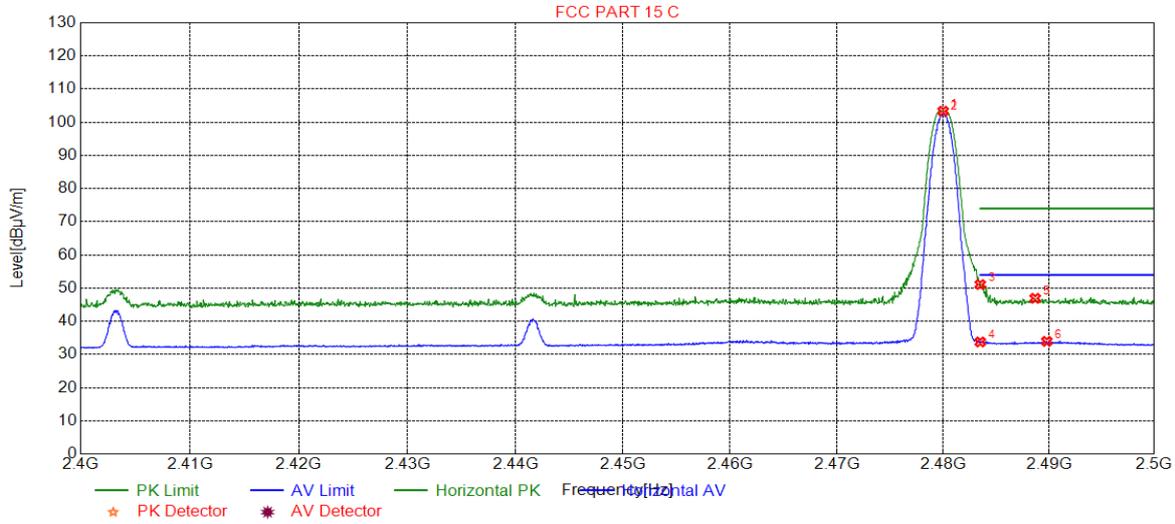


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4.10.1.3 BLE\_1M\_Channel 39 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	103.35	0.00	-103.35	150	64	Horizontal
2	2480.000	102.88	0.00	-102.88	150	64	Horizontal
3	2483.500	51.11	74.00	22.89	150	42	Horizontal
4	2483.500	33.80	54.00	20.20	150	70	Horizontal
5	2488.694	46.96	74.00	27.04	150	86	Horizontal
6	2489.794	33.99	54.00	20.01	150	64	Horizontal

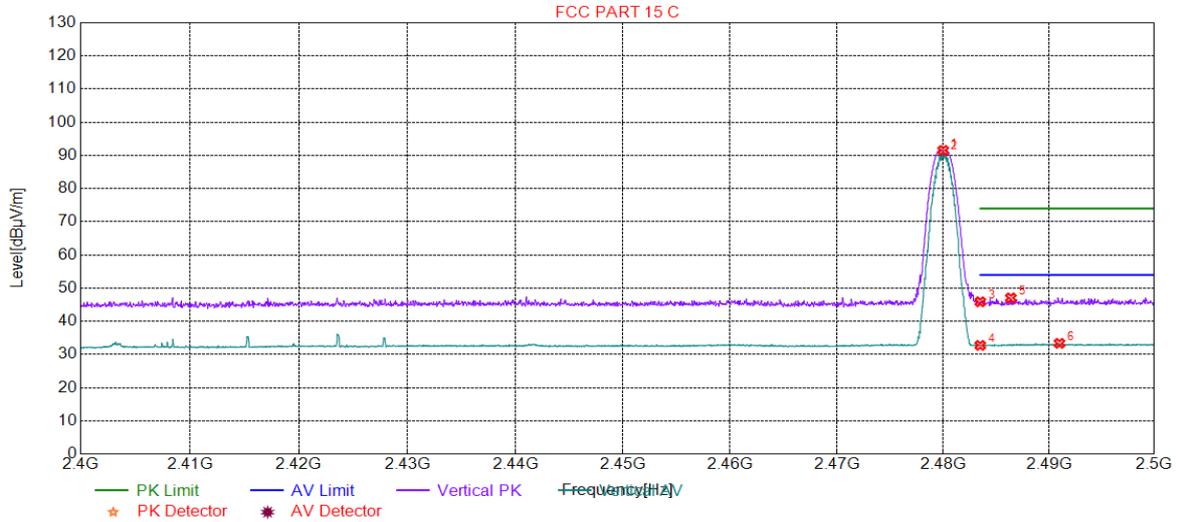
Final Data List



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4.10.1.4 BLE\_1M\_Channel 39 ANT1

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	91.51	0.00	-91.51	150	218	Vertical
2	2480.000	90.93	0.00	-90.93	150	218	Vertical
3	2483.500	45.91	74.00	28.09	150	174	Vertical
4	2483.500	32.77	54.00	21.23	150	26	Vertical
5	2486.393	47.08	74.00	26.92	150	162	Vertical
6	2490.995	33.39	54.00	20.61	150	144	Vertical

Final Data List

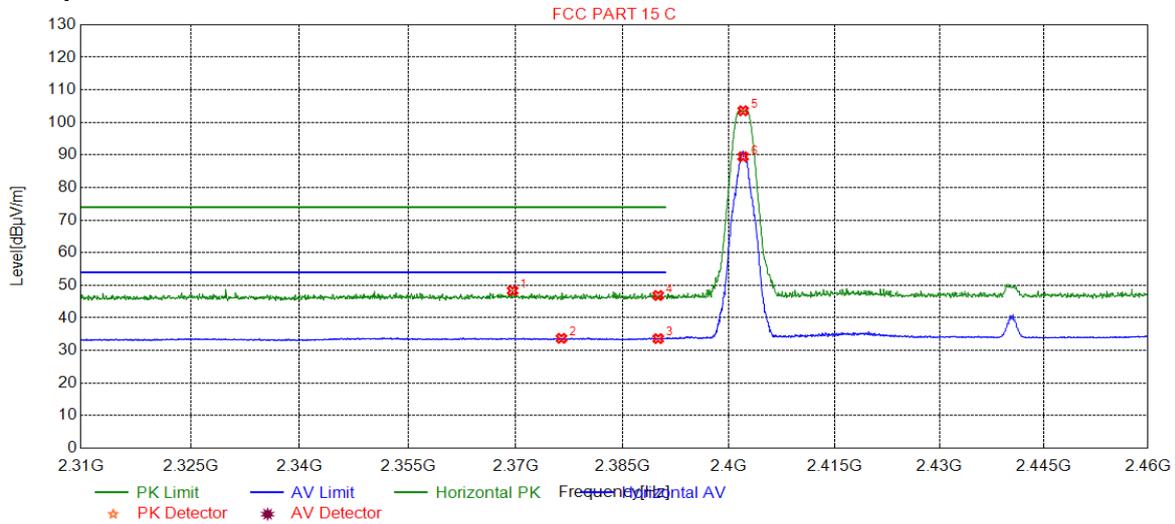


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### 4.10.1.5 BLE\_2M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.579	48.37	74.00	25.63	100	185	Horizontal
2	2376.408	33.74	54.00	20.26	200	14	Horizontal
3	2390.000	33.65	54.00	20.35	200	182	Horizontal
4	2390.000	46.89	74.00	27.11	200	118	Horizontal
5	2402.000	103.61	0.00	-103.61	100	49	Horizontal
6	2402.000	89.49	0.00	-89.49	100	98	Horizontal

#### Final Data List

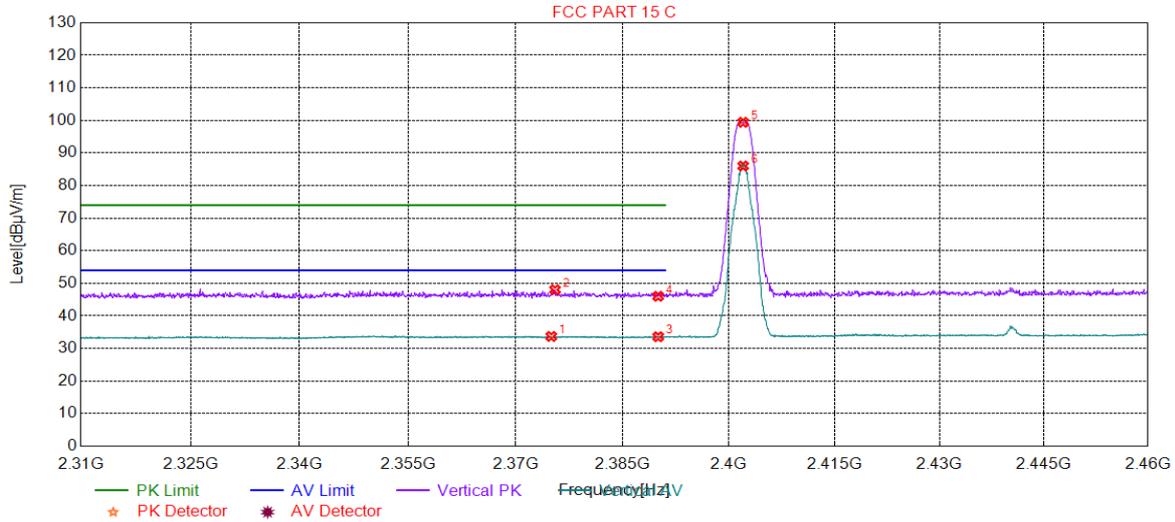


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### 4.10.1.6 BLE\_2M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.982	33.71	54.00	20.29	300	342	Vertical
2	2375.507	48.04	74.00	25.96	400	178	Vertical
3	2390.000	33.61	54.00	20.39	400	170	Vertical
4	2390.000	46.04	74.00	27.96	300	220	Vertical
5	2402.000	99.44	0.00	-99.44	400	167	Vertical
6	2402.000	86.04	0.00	-86.04	400	151	Vertical

#### Final Data List

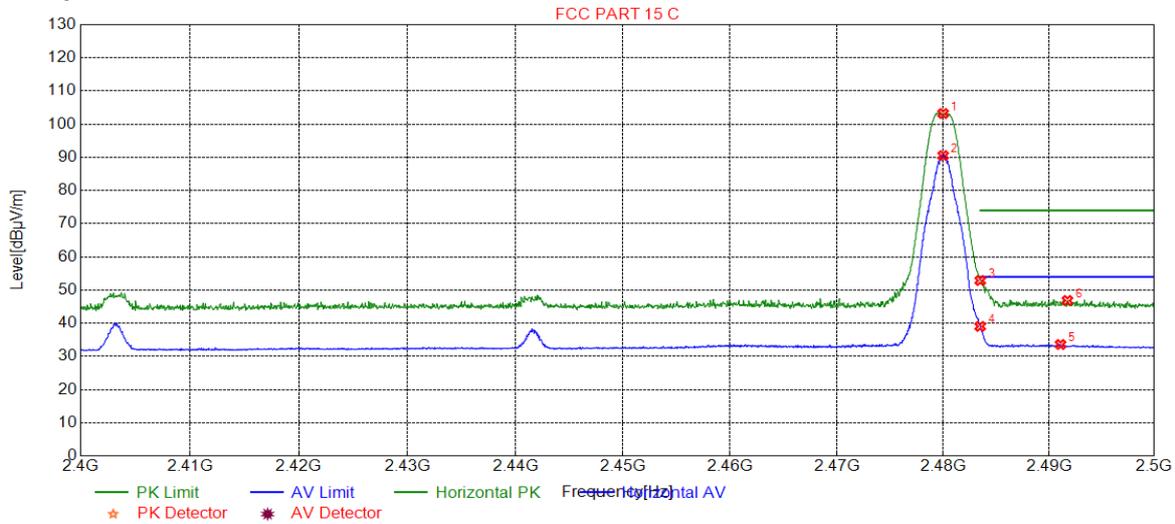


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### 4.10.1.7 BLE\_2M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	103.23	0.00	-103.23	150	65	Horizontal
2	2480.000	90.55	0.00	-90.55	150	45	Horizontal
3	2483.500	52.90	74.00	21.10	150	65	Horizontal
4	2483.500	39.08	54.00	14.92	150	45	Horizontal
5	2491.095	33.62	54.00	20.38	150	68	Horizontal
6	2491.745	46.88	74.00	27.12	150	115	Horizontal

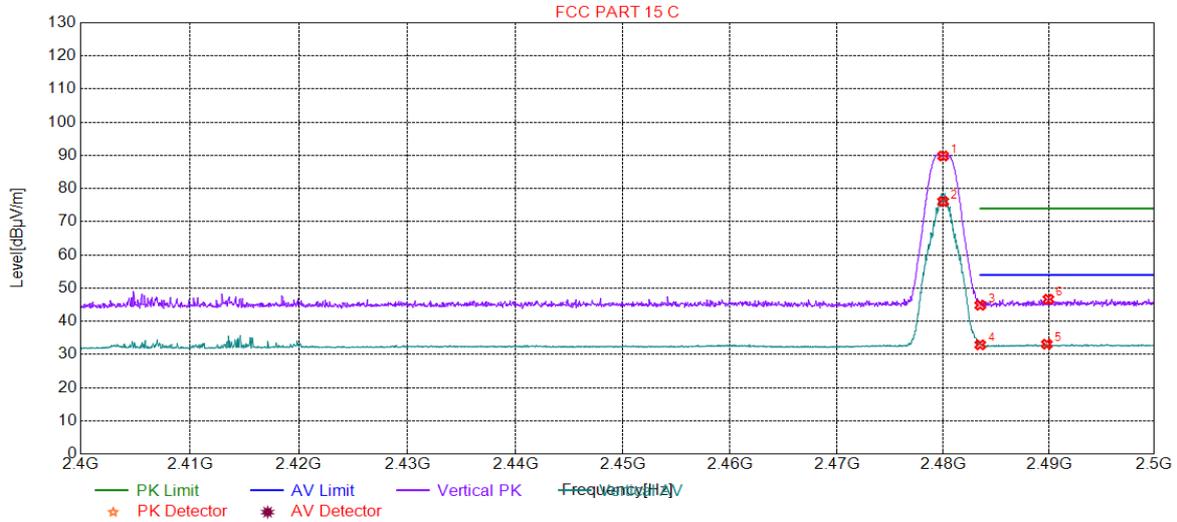
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**4.10.1.8 BLE\_2M\_Channel 39 ANT1**

**Test Graph**



**Suspected List**

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	89.85	0.00	-89.85	150	175	Vertical
2	2480.000	76.11	0.00	-76.11	150	351	Vertical
3	2483.500	44.86	74.00	29.14	150	332	Vertical
4	2483.500	32.94	54.00	21.06	150	229	Vertical
5	2489.794	33.13	54.00	20.87	150	52	Vertical
6	2489.945	46.66	74.00	27.34	150	217	Vertical

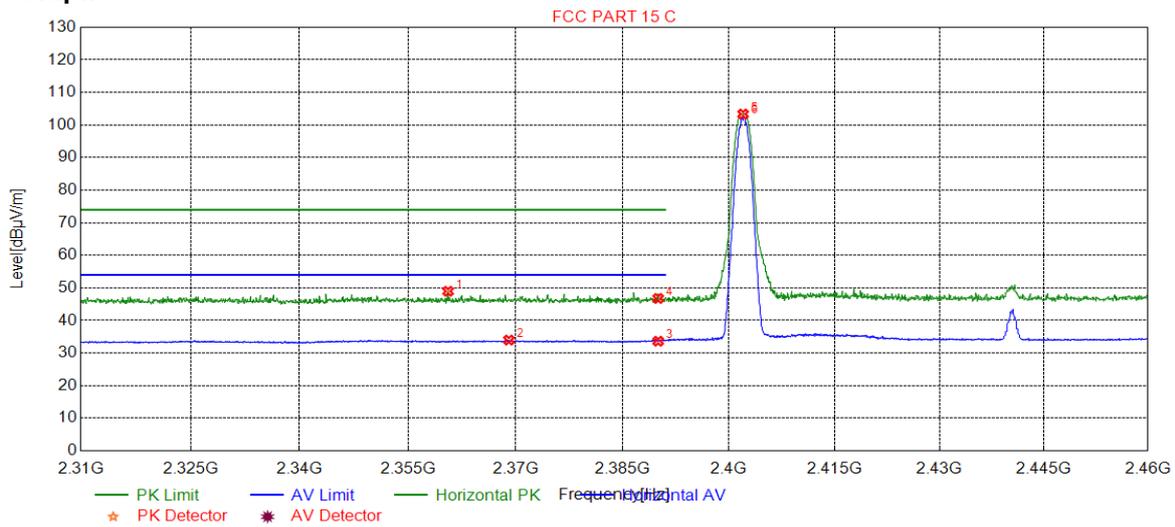
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### 4.10.1.9 BLE\_1M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.575	48.98	74.00	25.02	150	300	Horizontal
2	2369.054	34.00	54.00	20.00	150	174	Horizontal
3	2390.000	33.66	54.00	20.34	150	262	Horizontal
4	2390.000	46.78	74.00	27.22	150	224	Horizontal
5	2402.000	103.40	0.00	-103.40	150	208	Horizontal
6	2402.000	102.58	0.00	-102.58	150	208	Horizontal

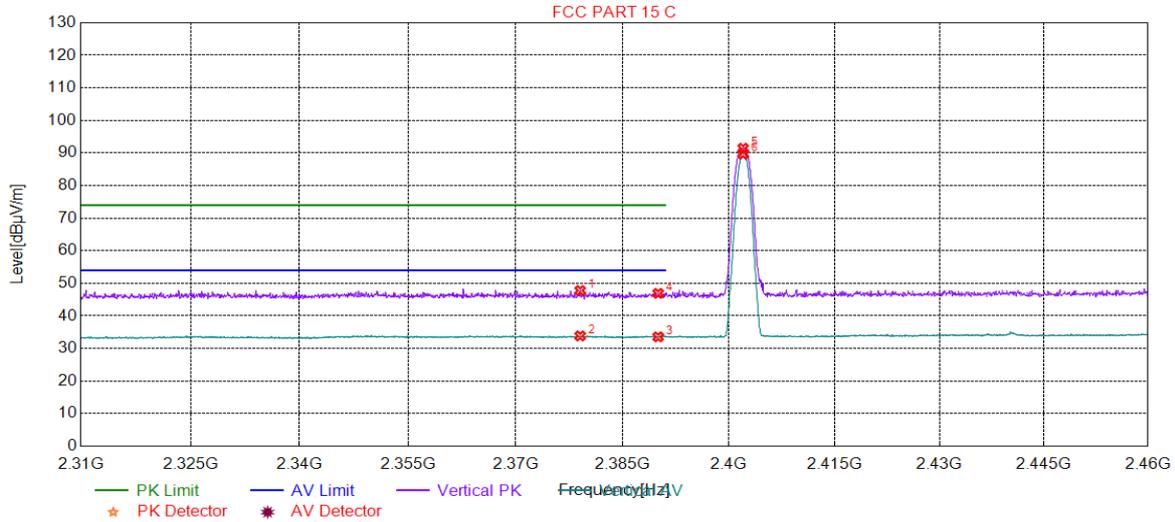
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4.10.1.10 BLE\_1M\_Channel 0 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.034	47.80	74.00	26.20	150	303	Vertical
2	2379.034	33.86	54.00	20.14	150	166	Vertical
3	2390.000	33.58	54.00	20.42	150	226	Vertical
4	2390.000	46.92	74.00	27.08	150	140	Vertical
5	2402.000	91.50	0.00	-91.50	150	230	Vertical
6	2402.000	89.67	0.00	-89.67	150	181	Vertical

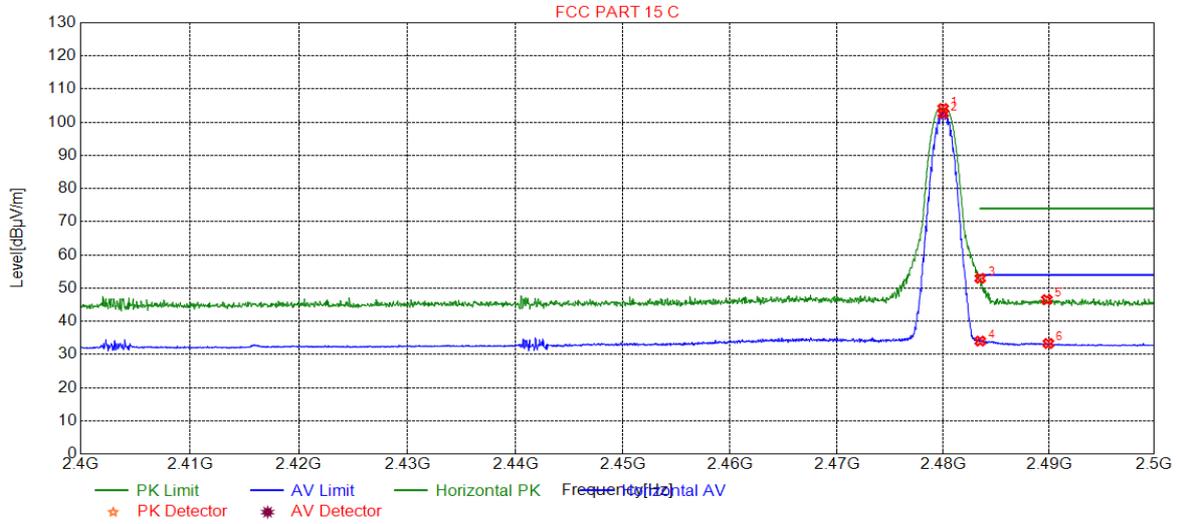
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4.10.1.11 BLE\_1M\_Channel 39 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	104.15	0.00	-104.15	150	260	Horizontal
2	2480.000	102.69	0.00	-102.69	150	302	Horizontal
3	2483.500	52.98	74.00	21.02	150	206	Horizontal
4	2483.500	34.07	54.00	19.93	150	263	Horizontal
5	2489.794	46.56	74.00	27.44	150	67	Horizontal
6	2489.945	33.35	54.00	20.65	150	260	Horizontal

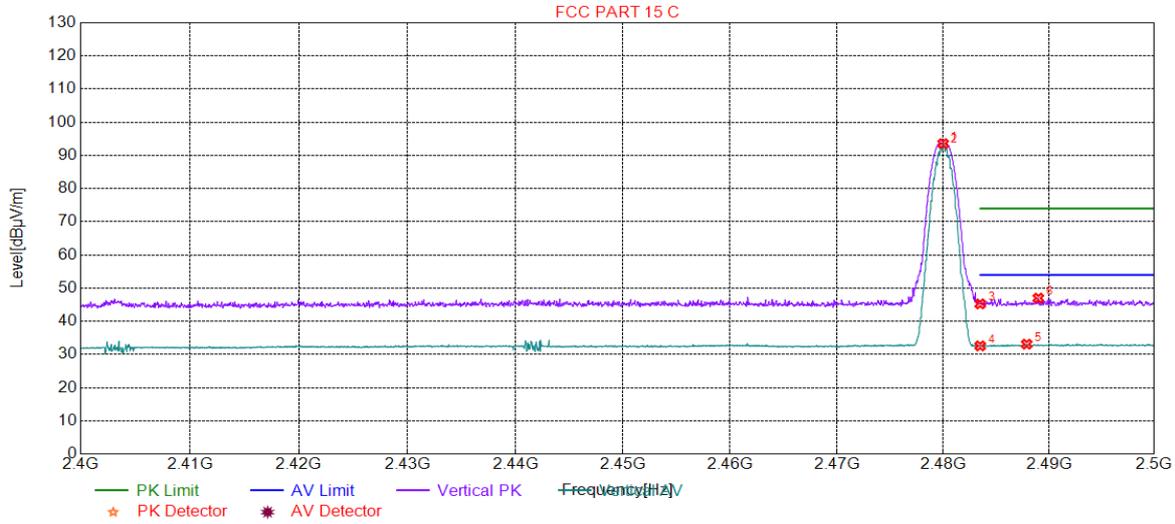
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### 4.10.1.12 BLE\_1M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	93.57	0.00	-93.57	150	359	Vertical
2	2480.000	92.93	0.00	-92.93	150	357	Vertical
3	2483.500	45.28	74.00	28.72	150	196	Vertical
4	2483.500	32.62	54.00	21.38	150	227	Vertical
5	2487.893	33.15	54.00	20.85	150	308	Vertical
6	2488.994	47.01	74.00	26.99	150	157	Vertical

#### Final Data List

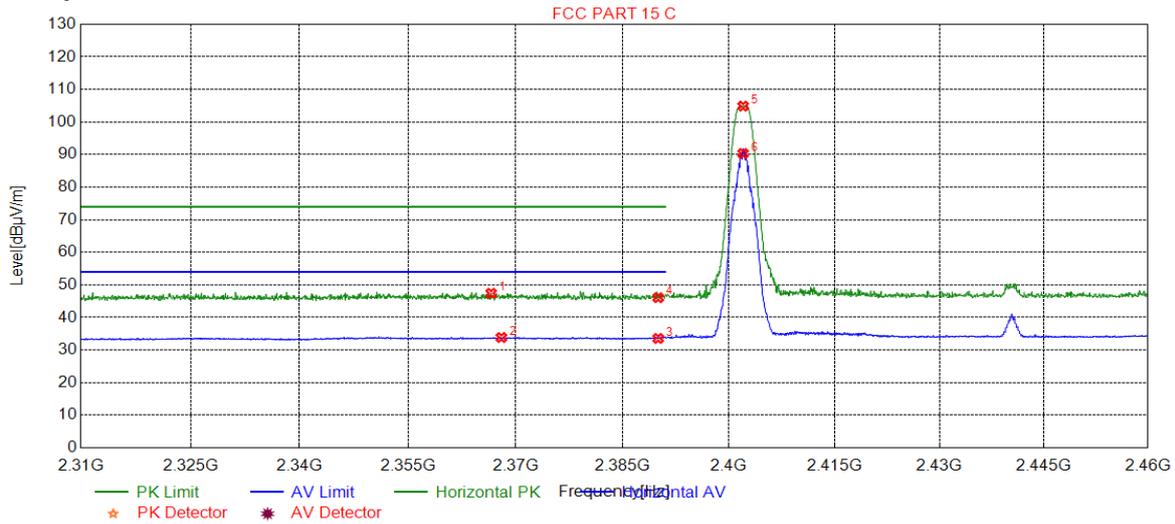


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 No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn  
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.10.1.13 BLE\_2M\_Channel 0 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.578	47.43	74.00	26.57	150	346	Horizontal
2	2368.004	33.87	54.00	20.13	150	143	Horizontal
3	2390.000	33.58	54.00	20.42	150	9	Horizontal
4	2390.000	46.09	74.00	27.91	150	200	Horizontal
5	2402.000	104.90	0.00	-104.90	150	207	Horizontal
6	2402.000	90.36	0.00	-90.36	150	301	Horizontal

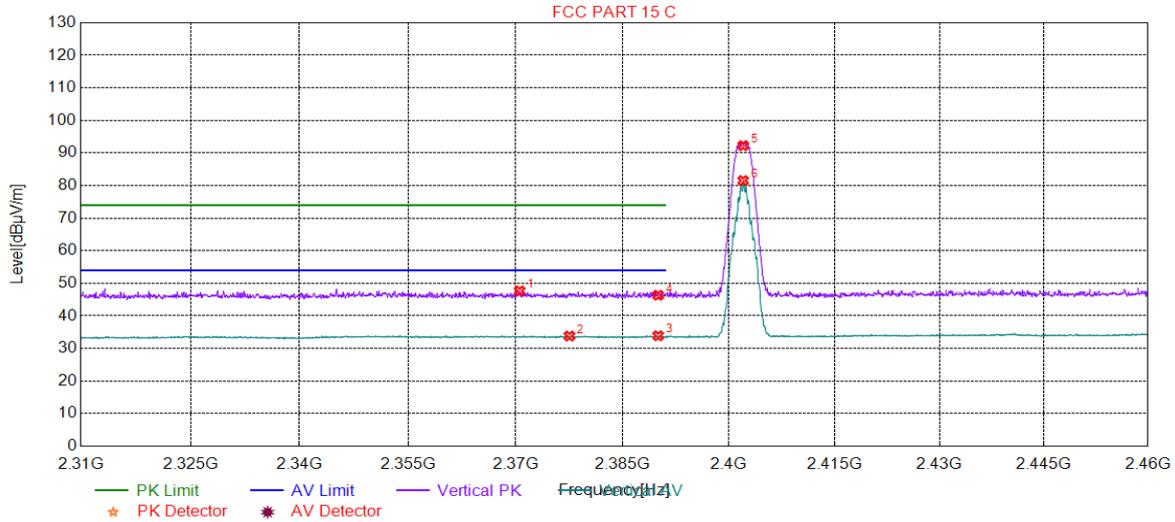
Final Data List



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### 4.10.1.14 BLE\_2M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.555	47.67	74.00	26.33	150	145	Vertical
2	2377.533	33.83	54.00	20.17	150	74	Vertical
3	2390.000	33.90	54.00	20.10	150	145	Vertical
4	2390.000	46.35	74.00	27.65	150	228	Vertical
5	2402.000	92.28	0.00	-92.28	150	91	Vertical
6	2402.000	81.56	0.00	-81.56	150	221	Vertical

#### Final Data List

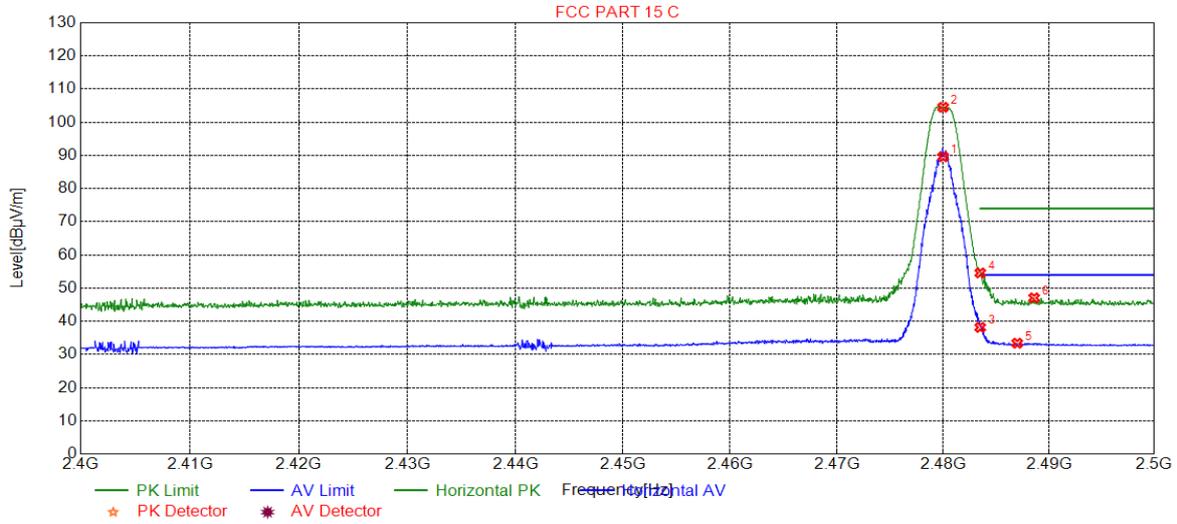


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4.10.1.15 BLE\_2M\_Channel 39 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	89.61	0.00	-89.61	150	197	Horizontal
2	2480.000	104.53	0.00	-104.53	150	209	Horizontal
3	2483.500	38.19	54.00	15.81	150	297	Horizontal
4	2483.500	54.61	74.00	19.39	150	209	Horizontal
5	2486.993	33.43	54.00	20.57	150	209	Horizontal
6	2488.594	47.09	74.00	26.91	150	217	Horizontal

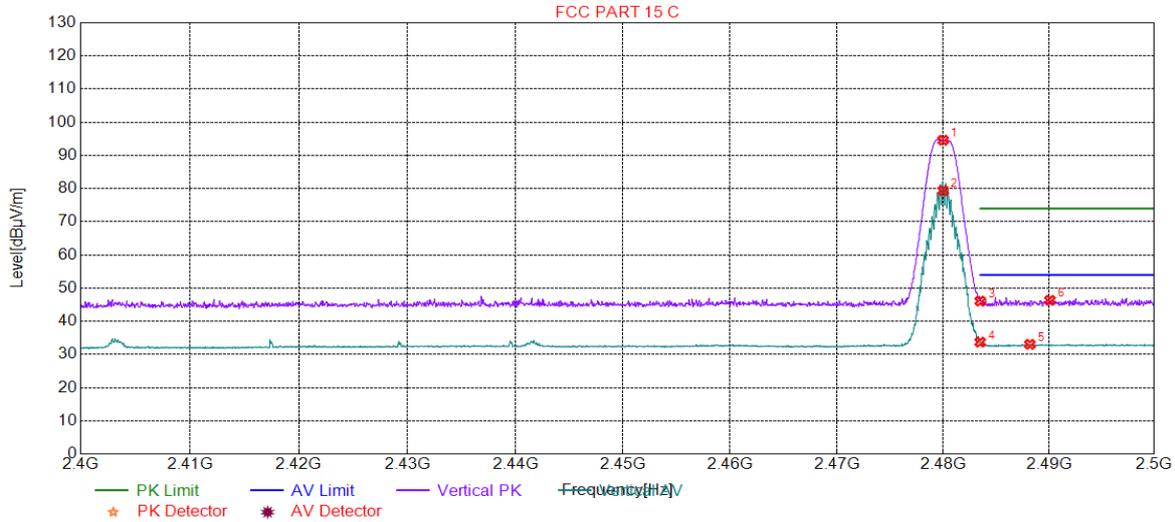
Final Data List



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4.10.1.16 BLE\_2M\_Channel 39 ANT2

Test Graph



Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	94.61	0.00	-94.61	150	159	Vertical
2	2480.000	79.40	0.00	-79.40	150	228	Vertical
3	2483.500	46.13	74.00	27.87	150	159	Vertical
4	2483.500	33.75	54.00	20.25	150	159	Vertical
5	2488.194	33.09	54.00	20.91	150	190	Vertical
6	2490.095	46.36	74.00	27.64	150	174	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)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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## 6 Equipment List

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31
Measurement Software	AUDIX	e3 V5.4.1221c	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
2 Line ISN	Fischer Custom Communications Inc	FCC-TLISN-T202	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologie Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/1/3	2022/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CPAR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-2	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/12	2021/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/9/3	2021/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A
RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2020/8/22	2023/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2020/6/12	2021/6/11



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A PCE Setup Photos.

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The End



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