

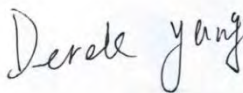
# FCC TEST REPORT

**Application No.:** ZR/2021/30014  
**Applicant:** vivo Mobile Communication Co., Ltd.  
**Address of Applicant** No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong , China  
**Manufacturer:** vivo Mobile Communication Co., Ltd.  
**Address of Manufacturer** No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong , China  
**EUT Description:** Mobile Phone  
**Model No.:** V2066  
**Trade Mark:** vivo  
**FCC ID:** 2AUCY-V2066  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2021/3/29  
**Date of Test:** 2021/3/29 to 2021/4/28  
**Date of Issue:** 2021/4/30

<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:



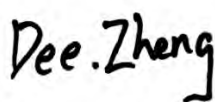

Derek Yang  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-04-30		Original

Authorized for issue by:		
Prepared By		 _____ (Dee Zheng) / Engineer
Checked By		 _____ (Jim Huang) / Reviewer



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## 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.

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

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



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### 3 General Information

#### 3.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant	No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong , China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer	No.168 Jinghai East Rd., Chang'an, Dongguan, Guangdong , China

#### 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
Test engineer:	Dee Zheng,Swing Hu,Habit Zeng

##### 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
Test engineer:	Leah Chen,Ken Liu,Andy Yao



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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:	Mobile Phone
Model No.:	V2066
Trade Mark:	vivo
Hardware Version:	MP_0.1
Software Version:	PD2083CF_EX_A_3.6.2
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$ , where: -fc = "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:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Gain:	-3.1dBi

**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 -3.1dBi.</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>		



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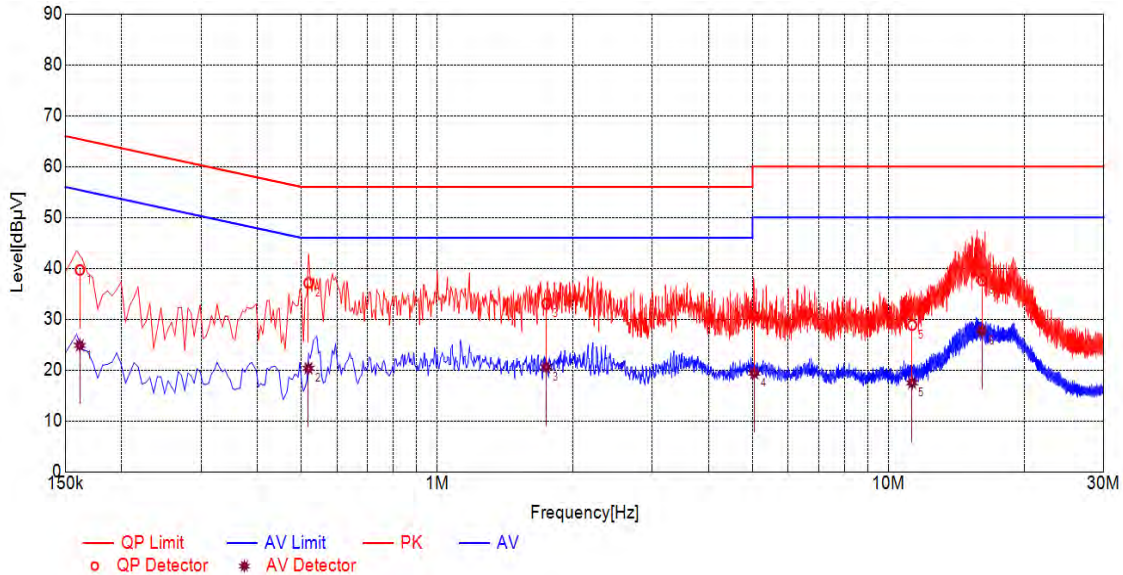
<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting with GFSK modulation. Charge +Transmitting mode.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



**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**

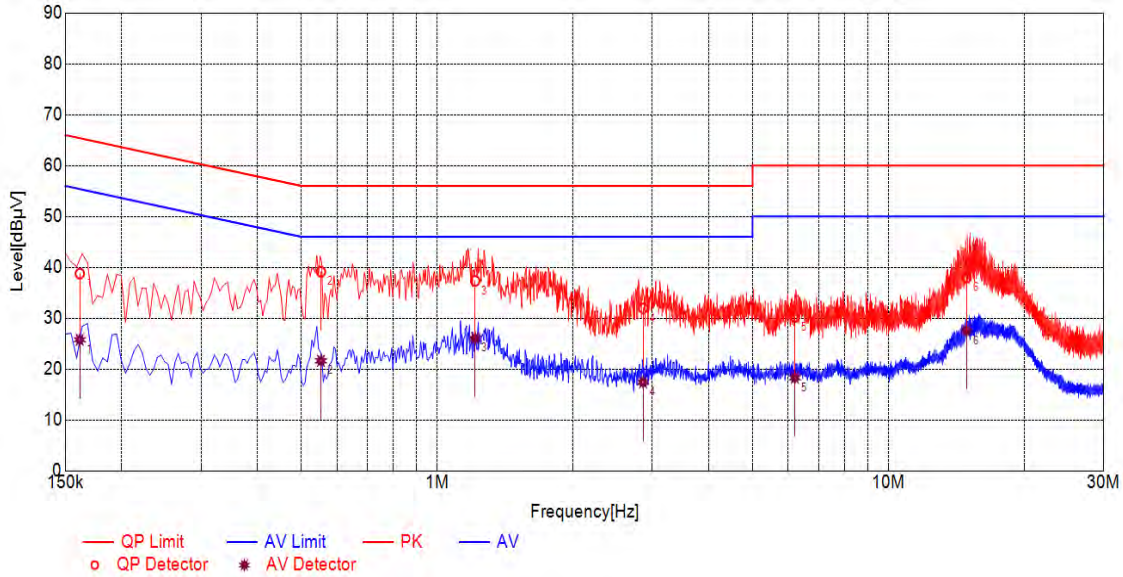
Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1616	10.10	39.68	65.38	25.70	24.86	55.38	30.52
2	0.5188	10.10	37.11	56.00	18.89	20.36	46.00	25.64
3	1.7452	10.10	33.00	56.00	23.00	20.57	46.00	25.43
4	5.0424	10.10	30.56	60.00	29.44	19.38	50.00	30.62
5	11.2887	10.10	28.85	60.00	31.15	17.50	50.00	32.50
6	16.1207	10.11	37.60	60.00	22.40	27.72	50.00	22.28



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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	0.1615	10.10	38.76	65.39	26.63	25.76	55.39	29.63
2	0.5530	10.10	39.13	56.00	16.87	21.62	46.00	24.38
3	1.2145	10.10	37.33	56.00	18.67	26.03	46.00	19.97
4	2.8614	10.10	31.98	56.00	24.02	17.39	46.00	28.61
5	6.2066	10.10	30.25	60.00	29.75	18.30	50.00	31.70
6	14.9021	10.11	37.98	60.00	22.02	27.55	50.00	22.45

Remark1:

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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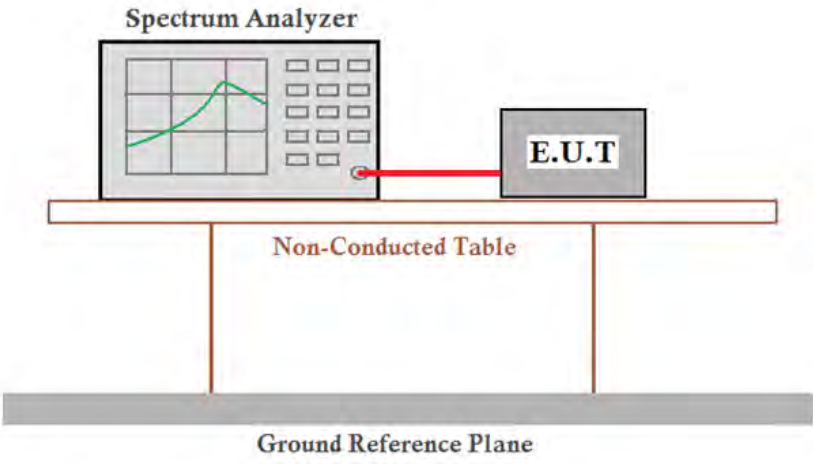
### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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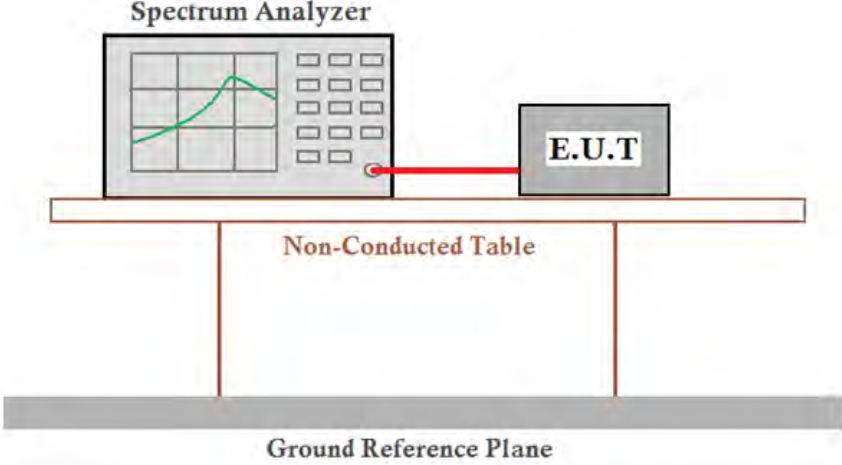
### 4.4 Conducted Output Power

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

The detailed test data see: **Appendix**



### 4.5 DTS (6 dB) Bandwidth

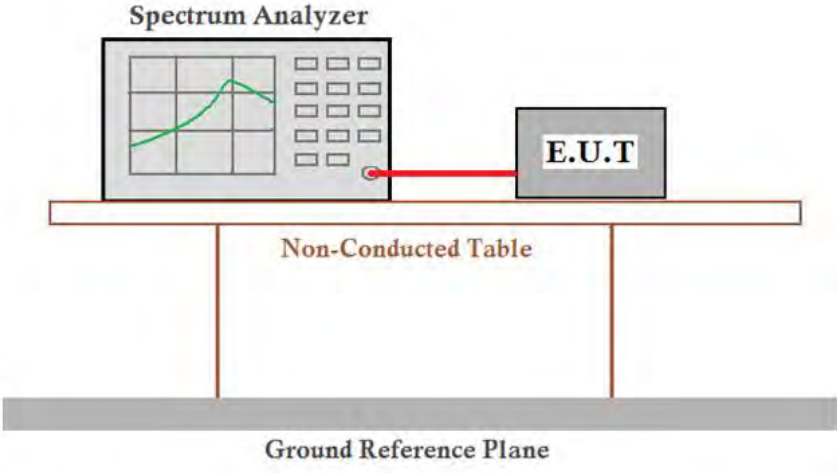
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.6 Power Spectral Density

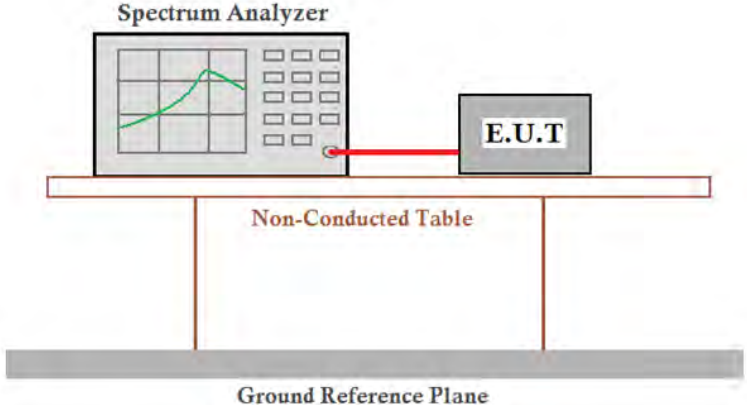
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

The detailed test data see: **Appendix**



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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

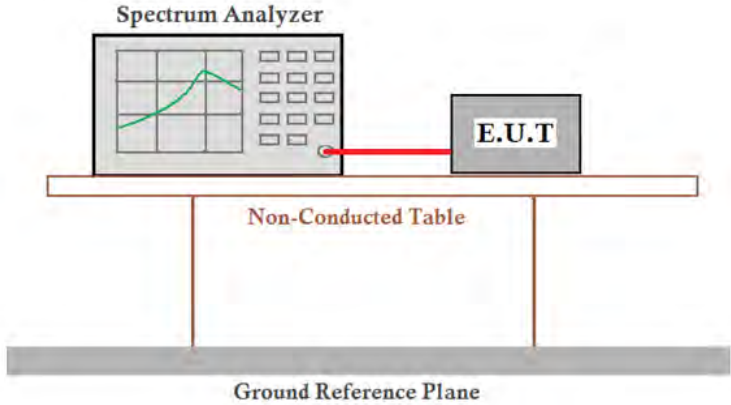
The detailed test data see: **Appendix**



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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

The detailed test data see: **Appendix**



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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 (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). Duty cycle = On time/100 milliseconds</li> </ol> </li> </ol>



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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>            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 + <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. 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 6 for details
Test Results:	Pass



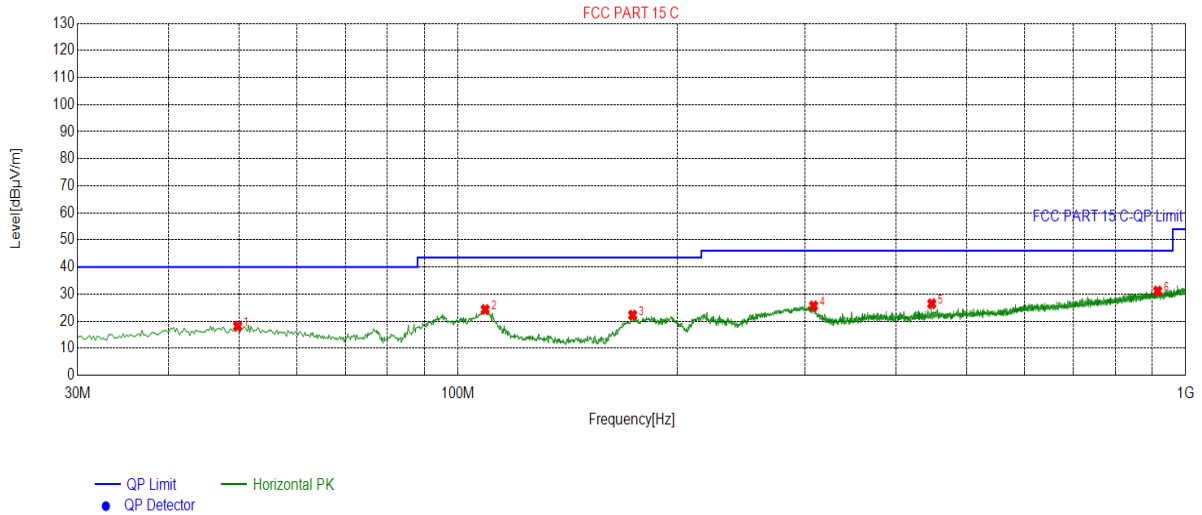
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### 4.9.1 Radiated emission below 1GHz

#### 4.9.1.1 Charge + Transmitting BLE 1M

##### Test Graph



##### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.7920	18.14	-26.44	40.00	21.86	125	358	Horizontal
2	108.973	24.29	-28.12	43.50	19.21	203	72	Horizontal
3	173.782	22.24	-30.02	43.50	21.26	354	203	Horizontal
4	308.057	25.62	-25.65	46.00	20.38	298	32	Horizontal
5	447.765	26.42	-22.05	46.00	19.58	265	358	Horizontal
6	915.205	31.14	-14.17	46.00	14.86	342	82	Horizontal

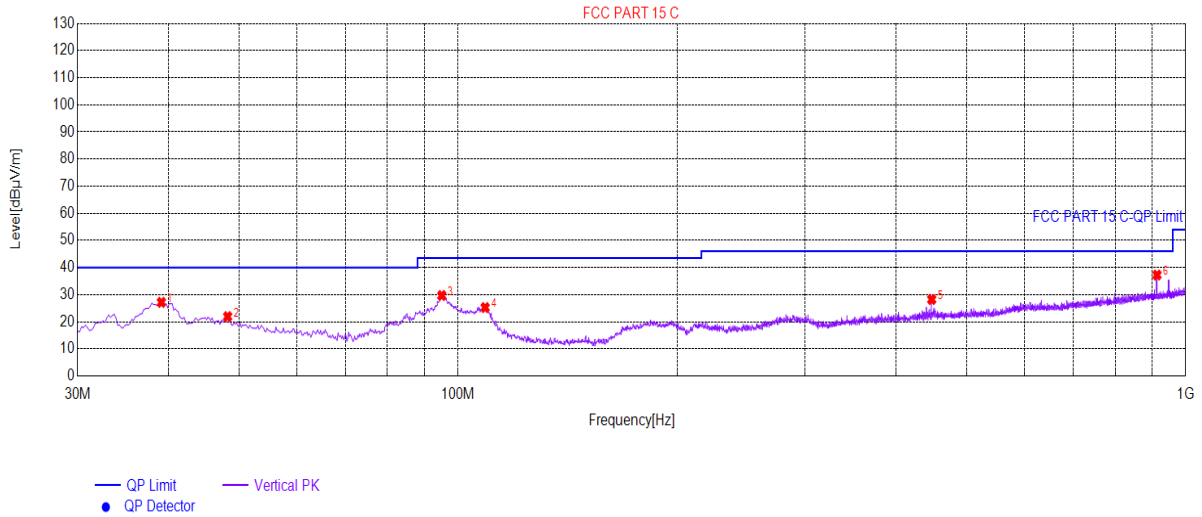
##### Final Data List



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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	39.1198	27.17	-27.76	40.00	12.83	264	312	Vertical
2	48.2396	21.91	-26.46	40.00	18.09	254	310	Vertical
3	95.0030	29.70	-28.98	43.50	13.80	320	236	Vertical
4	108.973	25.23	-28.12	43.50	18.27	319	114	Vertical
5	447.765	28.23	-22.05	46.00	17.77	289	8	Vertical
6	913.458	37.25	-14.18	46.00	8.75	240	2	Vertical

### Final Data List

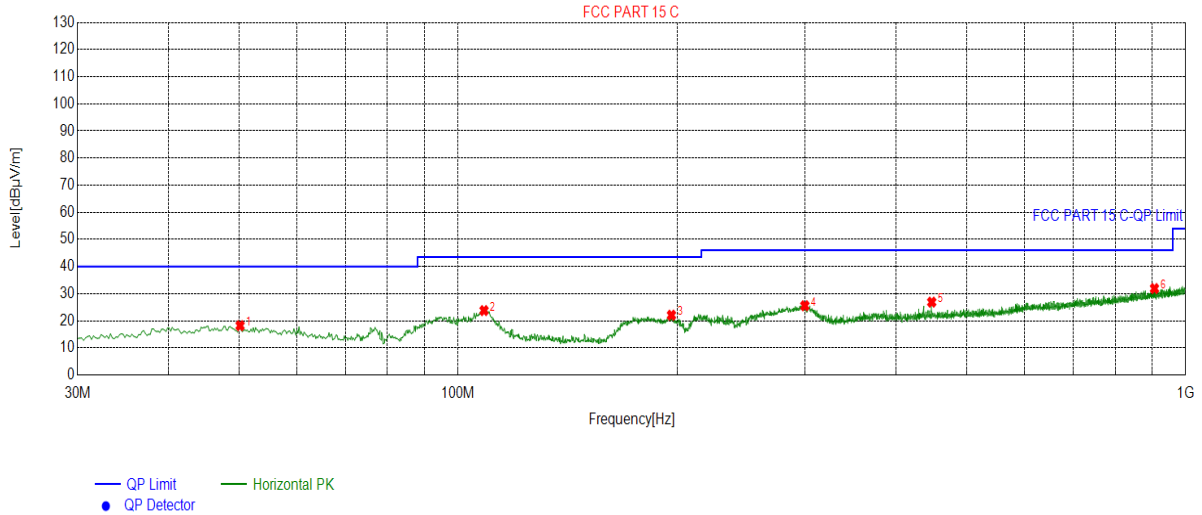


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**4.9.1.2 Charge + Transmitting BLE 2M**

**Test Graph**



**Suspected List**

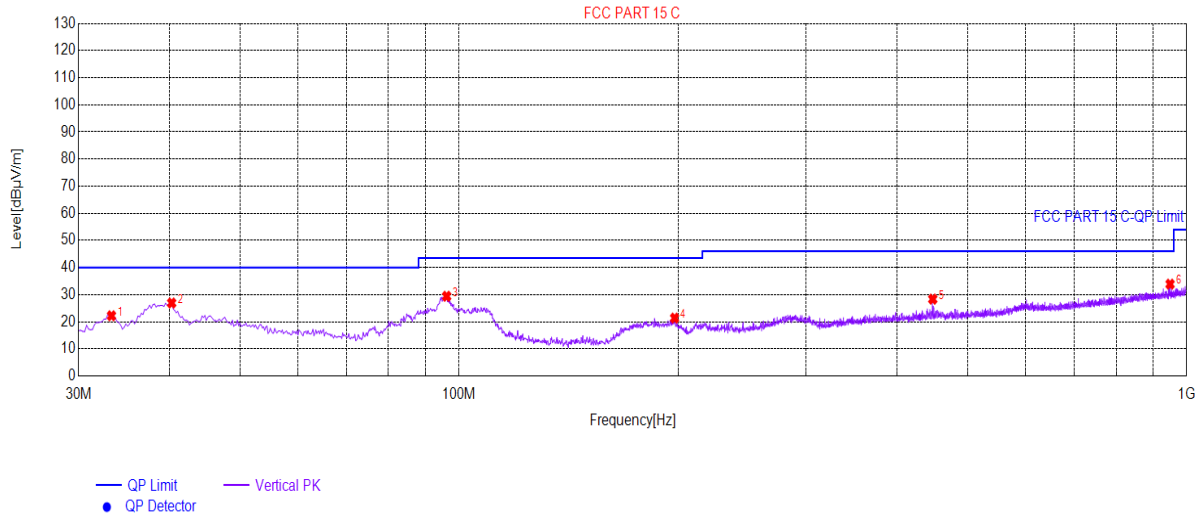
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	50.1800	18.20	-26.47	40.00	21.80	360	121	Horizontal
2	108.585	23.76	-28.12	43.50	19.74	250	96	Horizontal
3	196.485	22.07	-28.28	43.50	21.43	194	213	Horizontal
4	299.713	25.55	-25.91	46.00	20.45	256	43	Horizontal
5	447.765	26.88	-22.05	46.00	19.12	120	267	Horizontal
6	906.085	31.89	-14.23	46.00	14.11	135	285	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	33.2987	22.22	-29.20	40.00	17.78	135	318	Vertical
2	40.2841	26.92	-27.42	40.00	13.08	186	318	Vertical
3	96.1672	29.41	-28.78	43.50	14.09	264	258	Vertical
4	197.843	21.36	-28.15	43.50	22.14	329	312	Vertical
5	447.765	28.35	-22.05	46.00	17.65	105	18	Vertical
6	948.967	33.88	-13.88	46.00	12.12	100	336	Vertical

### Final Data List

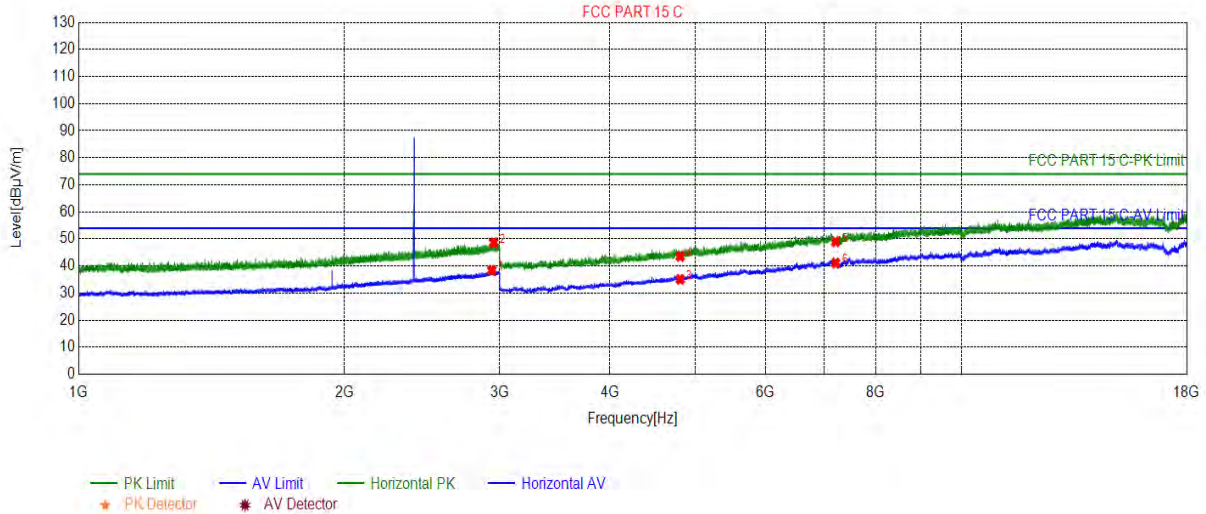


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**4.9.2 Transmitter emission above 1GHz**  
**4.9.2.1 BLE 1M\_Channel 0**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2938.79	38.42	10.51	54.00	15.58	159	140	Horizontal
2	2953.59	48.63	10.55	74.00	25.37	164	0	Horizontal
3	4804.00	35.08	-15.41	54.00	18.92	150	214	Horizontal
4	4804.00	43.54	-15.41	74.00	30.46	163	152	Horizontal
5	7206.00	48.95	-8.59	74.00	25.05	195	255	Horizontal
6	7206.00	41.11	-8.59	54.00	12.89	177	106	Horizontal

**Final Data List**

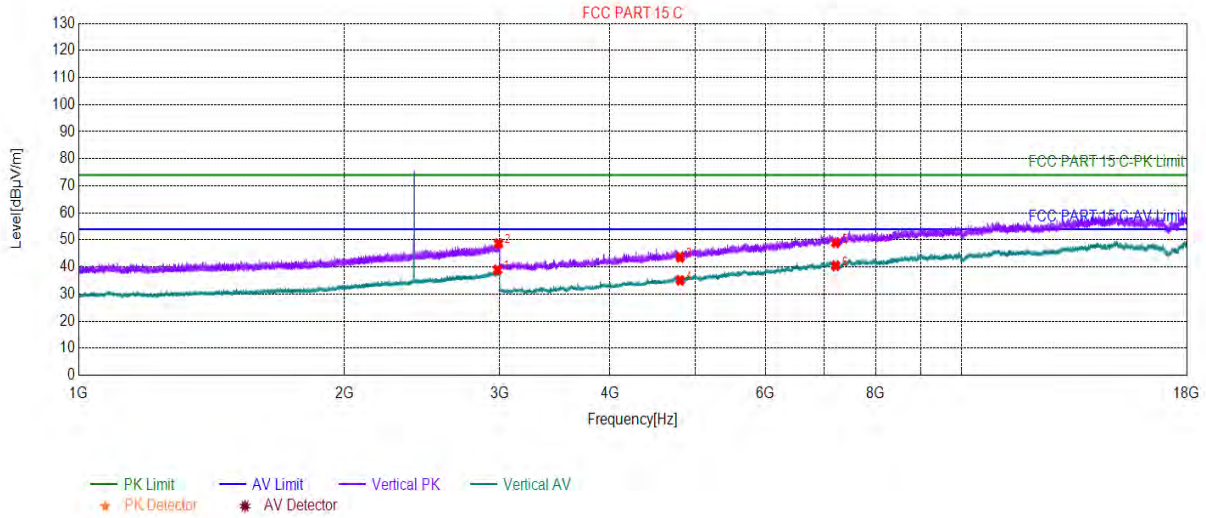


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**4.9.2.2 BLE 1M\_Channel 0**

**Test Graph**



**Suspected List**

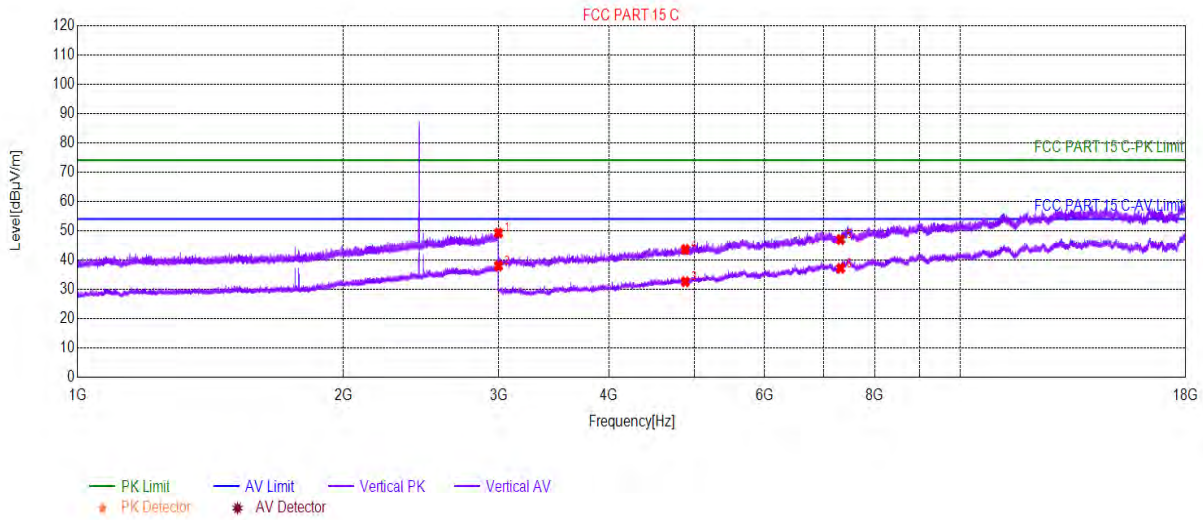
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2982.89	38.97	10.53	54.00	15.03	296	285	Vertical
2	2990.79	48.66	10.51	74.00	25.34	233	232	Vertical
3	4804.00	43.61	-15.41	74.00	30.39	241	346	Vertical
4	4804.00	35.08	-15.41	54.00	18.92	250	216	Vertical
5	7206.00	48.98	-8.59	74.00	25.02	213	244	Vertical
6	7206.00	40.46	-8.59	54.00	13.54	293	48	Vertical

**Final Data List**

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

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	2998.09	49.23	10.75	74.00	24.77	214	197	Vertical
2	2998.29	37.98	10.76	54.00	16.02	222	67	Vertical
3	4880.00	32.58	-15.07	54.00	21.42	208	90	Vertical
4	4880.00	43.61	-15.07	74.00	30.39	201	187	Vertical
5	7320.00	46.99	-8.63	74.00	27.01	256	82	Vertical
6	7320.00	37.19	-8.63	54.00	16.81	214	214	Vertical

Final Data List

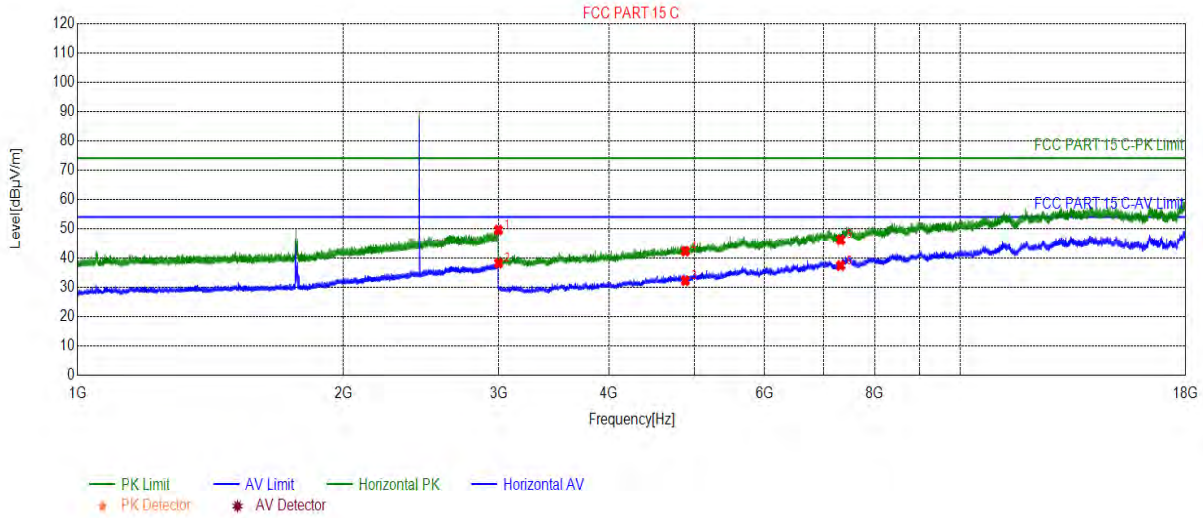


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**4.9.2.4 BLE\_1M\_Channel 19**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.99	49.55	10.75	74.00	24.45	135	300	Horizontal
2	2999.20	38.24	10.78	54.00	15.76	223	358	Horizontal
3	4880.00	32.27	-15.07	54.00	21.73	114	275	Horizontal
4	4880.00	42.31	-15.07	74.00	31.69	123	61	Horizontal
5	7320.00	46.20	-8.63	74.00	27.80	189	352	Horizontal
6	7320.00	37.43	-8.63	54.00	16.57	146	257	Horizontal

**Final Data List**

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



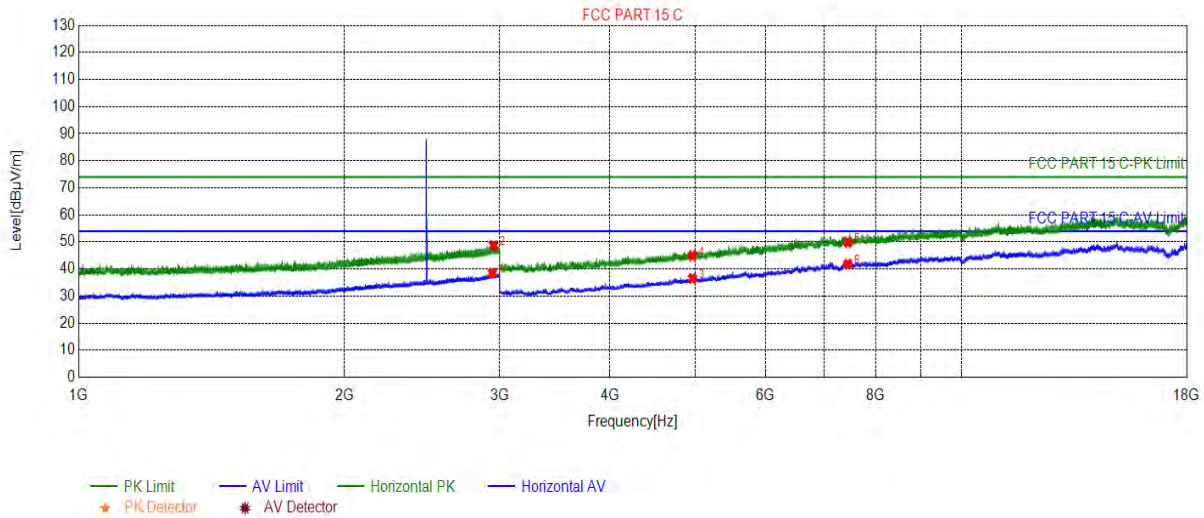
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4.9.2.5 BLE 1M\_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2943.69	38.46	10.53	54.00	15.54	166	217	Horizontal
2	2952.99	48.69	10.55	74.00	25.31	162	255	Horizontal
3	4960.00	36.50	-14.40	54.00	17.50	195	254	Horizontal
4	4960.00	44.89	-14.40	74.00	29.11	158	2	Horizontal
5	7440.00	49.82	-7.31	74.00	24.18	160	30	Horizontal
6	7440.00	41.83	-7.31	54.00	12.17	188	192	Horizontal

Final Data List

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



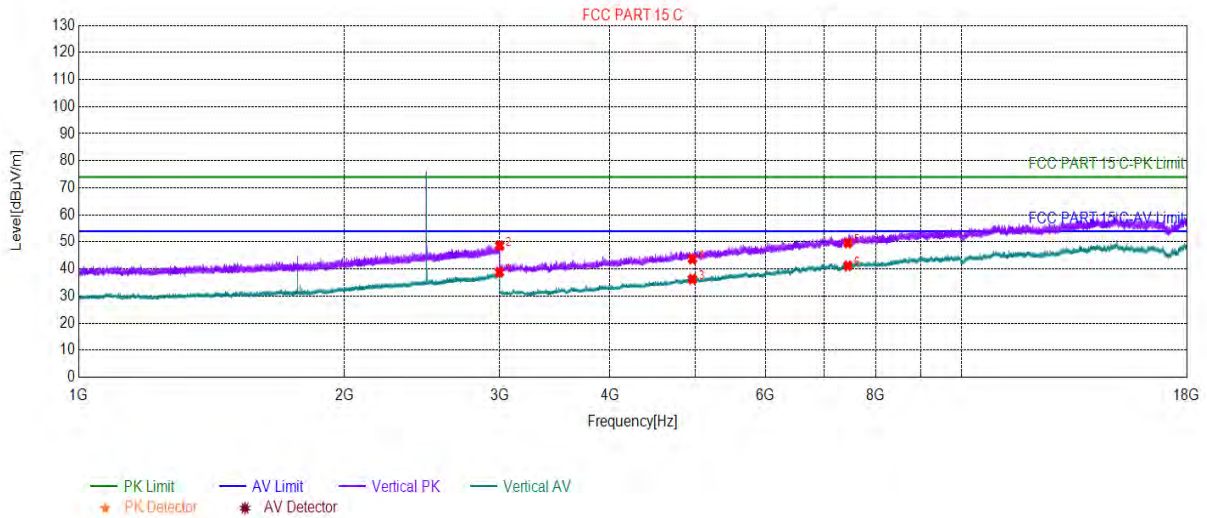
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### 4.9.2.6 BLE 1M\_Channel 39

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.39	38.84	10.73	54.00	15.16	296	148	Vertical
2	3000.00	48.64	10.81	74.00	25.36	246	254	Vertical
3	4960.00	36.26	-14.40	54.00	17.74	236	97	Vertical
4	4960.00	43.71	-14.40	74.00	30.29	285	234	Vertical
5	7440.00	49.63	-7.31	74.00	24.37	261	2	Vertical
6	7440.00	41.18	-7.31	54.00	12.82	210	291	Vertical

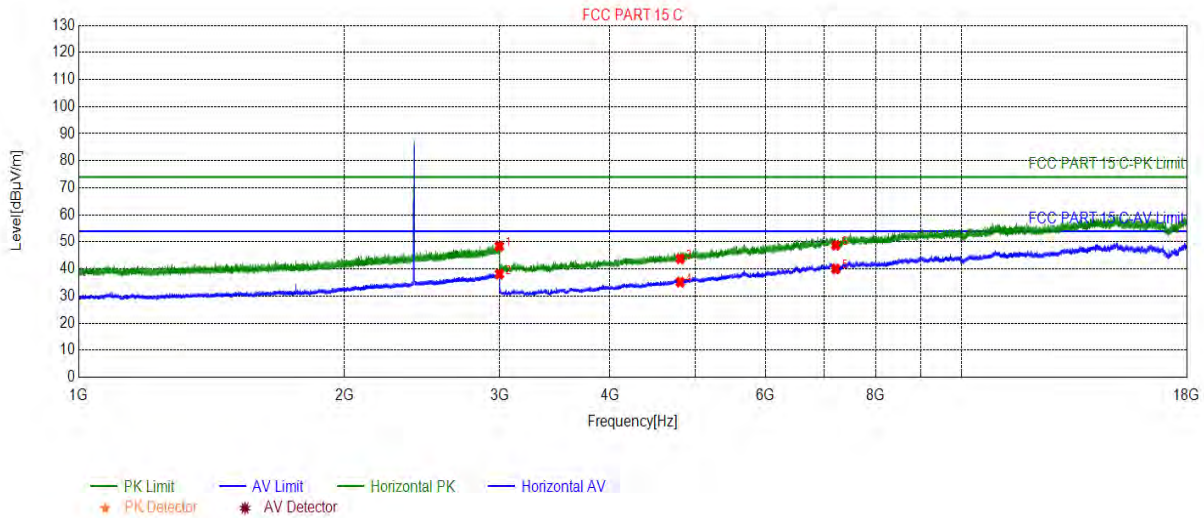
#### Final Data List



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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	2996.59	48.42	10.70	74.00	25.58	169	97	Horizontal
2	2997.59	38.17	10.73	54.00	15.83	155	300	Horizontal
3	4804.00	43.78	-15.41	74.00	30.22	158	52	Horizontal
4	4804.00	35.16	-15.41	54.00	18.84	169	196	Horizontal
5	7206.00	40.02	-8.59	54.00	13.98	189	218	Horizontal
6	7206.00	48.75	-8.59	74.00	25.25	185	291	Horizontal

#### Final Data List

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2996.59	48.42	10.70	74.00	25.58	169	97	Horizontal
2	2997.59	38.17	10.73	54.00	15.83	155	300	Horizontal
3	4804.00	43.78	-15.41	74.00	30.22	158	52	Horizontal
4	4804.00	35.16	-15.41	54.00	18.84	169	196	Horizontal
5	7206.00	40.02	-8.59	54.00	13.98	189	218	Horizontal
6	7206.00	48.75	-8.59	74.00	25.25	185	291	Horizontal



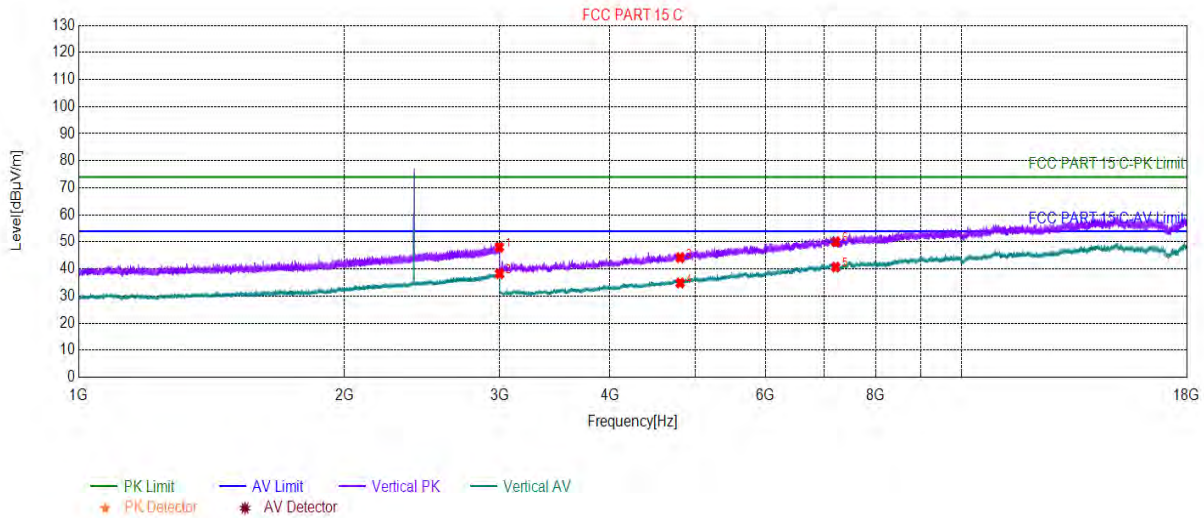
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4.9.2.8 BLE 2M\_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2996.39	48.05	10.69	74.00	25.95	265	301	Vertical
2	2999.10	38.28	10.78	54.00	15.72	245	236	Vertical
3	4804.00	44.19	-15.41	74.00	29.81	211	194	Vertical
4	4804.00	34.83	-15.41	54.00	19.17	265	194	Vertical
5	7206.00	40.72	-8.59	54.00	13.28	239	332	Vertical
6	7206.00	50.10	-8.59	74.00	23.90	296	211	Vertical

Final Data List

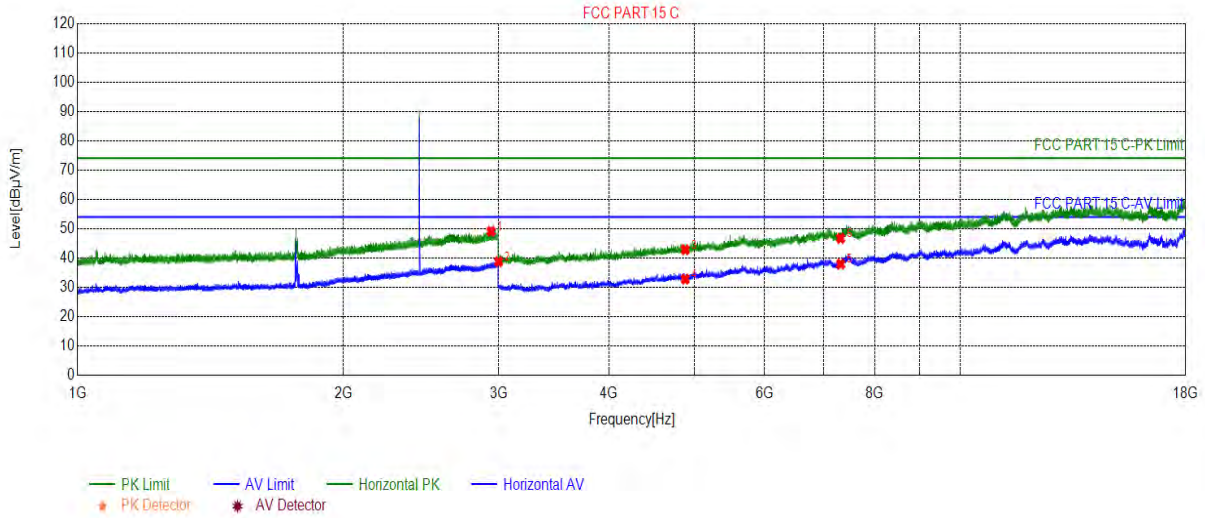


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4.9.2.9 BLE\_2M\_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2940.69	49.12	10.51	74.00	24.88	214	90	Horizontal
2	2999.20	38.74	10.78	54.00	15.26	203	358	Horizontal
3	4880.00	42.81	-15.07	74.00	31.19	125	61	Horizontal
4	4880.00	32.77	-15.07	54.00	21.23	137	275	Horizontal
5	7320.00	37.93	-8.63	54.00	16.07	112	257	Horizontal
6	7320.00	46.70	-8.63	74.00	27.30	100	352	Horizontal

Final Data List

Final Data List table content is not visible in the provided image.

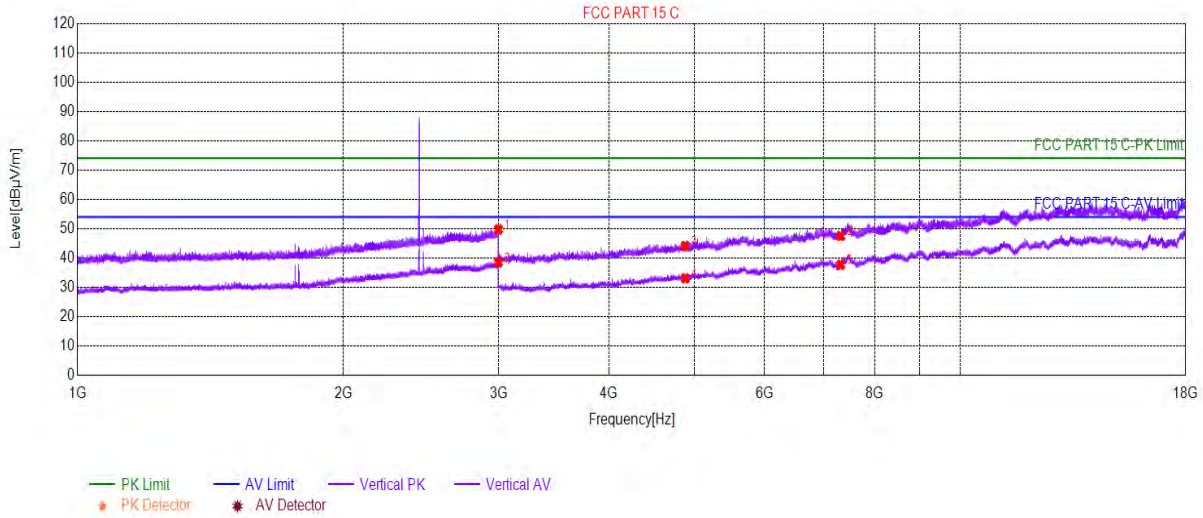


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**4.9.2.10 BLE\_2M\_Channel 19**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.09	49.73	10.75	74.00	24.27	213	197	Vertical
2	2998.29	38.48	10.76	54.00	15.52	244	67	Vertical
3	4880.00	44.11	-15.07	74.00	29.89	206	187	Vertical
4	4880.00	33.08	-15.07	54.00	20.92	218	90	Vertical
5	7320.00	37.69	-8.63	54.00	16.31	200	214	Vertical
6	7320.00	47.49	-8.63	74.00	26.51	189	82	Vertical

**Final Data List**

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.09	49.73	10.75	74.00	24.27	213	197	Vertical
2	2998.29	38.48	10.76	54.00	15.52	244	67	Vertical
3	4880.00	44.11	-15.07	74.00	29.89	206	187	Vertical
4	4880.00	33.08	-15.07	54.00	20.92	218	90	Vertical
5	7320.00	37.69	-8.63	54.00	16.31	200	214	Vertical
6	7320.00	47.49	-8.63	74.00	26.51	189	82	Vertical



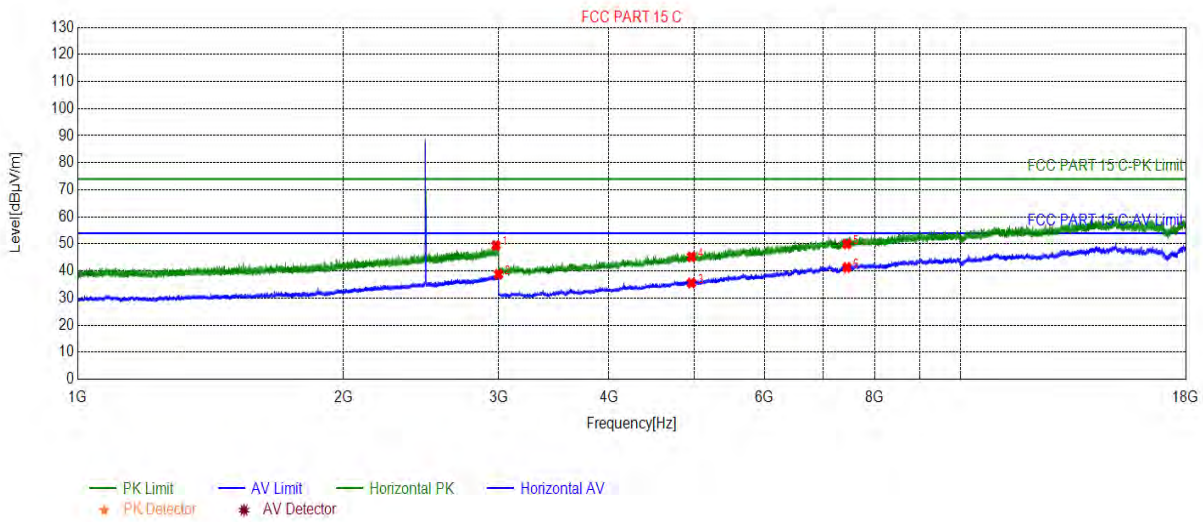
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**4.9.2.11 BLE 2M\_Channel 39**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2978.89	49.42	10.52	74.00	24.58	165	216	Horizontal
2	2998.39	38.76	10.76	54.00	15.24	195	162	Horizontal
3	4960.00	35.57	-14.40	54.00	18.43	185	202	Horizontal
4	4960.00	45.27	-14.40	74.00	28.73	163	287	Horizontal
5	7440.00	49.96	-7.31	74.00	24.04	166	235	Horizontal
6	7440.00	41.30	-7.31	54.00	12.70	189	354	Horizontal

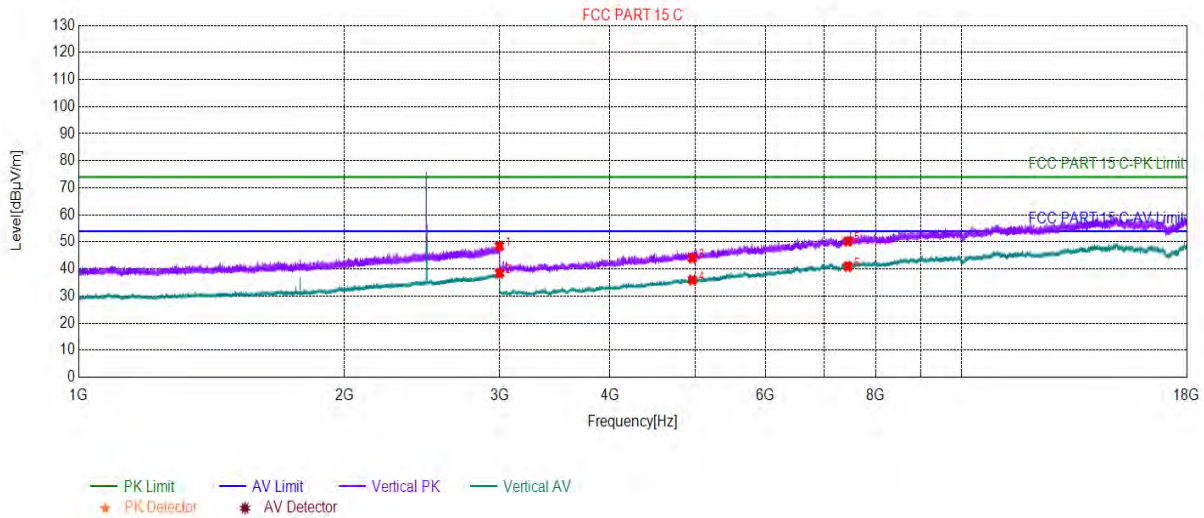
**Final Data List**



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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	2997.29	48.49	10.72	74.00	25.51	296	41	Vertical
2	2999.40	38.50	10.79	54.00	15.50	254	239	Vertical
3	4960.00	44.06	-14.40	74.00	29.94	287	40	Vertical
4	4960.00	35.95	-14.40	54.00	18.05	293	276	Vertical
5	7440.00	50.24	-7.31	74.00	23.76	263	242	Vertical
6	7440.00	40.94	-7.31	54.00	13.06	233	315	Vertical

**Final Data List**

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz 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:			

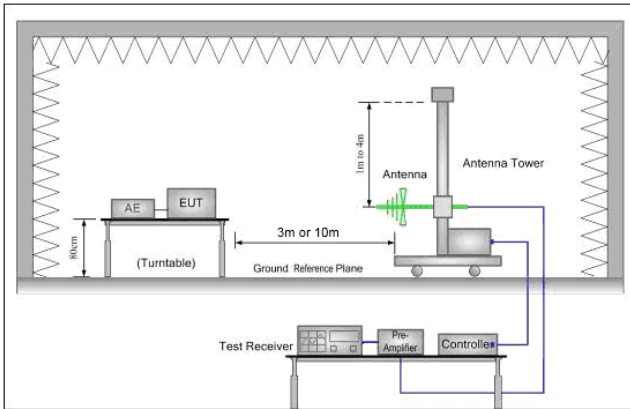


Figure 1. 30MHz to 1GHz

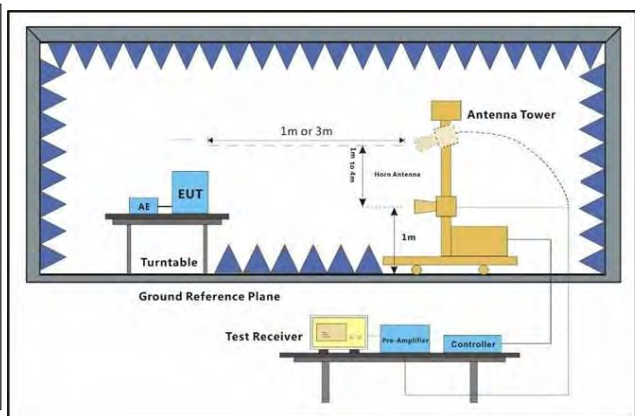


Figure 2. Above 1 GHz



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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 6 for details
Test Results:	Pass

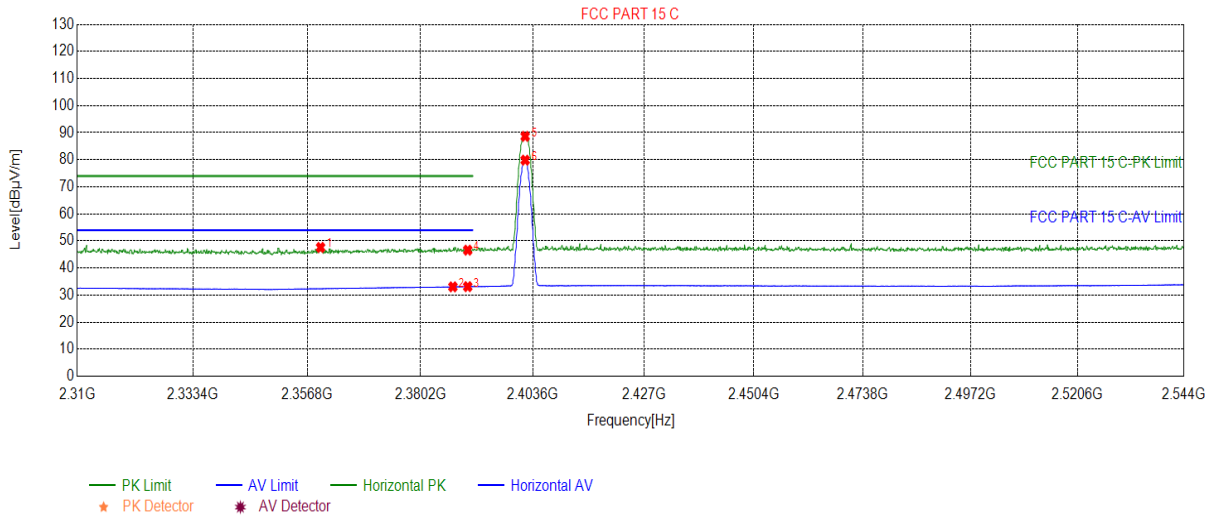


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### 4.10.1 Test Plots

#### 4.10.1.1 BLE\_1M\_Channel 0

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2359.51	47.61	8.78	74.00	26.39	150	45	Horizontal
2	2386.90	33.06	9.52	54.00	20.94	160	53	Horizontal
3	2390.00	33.13	9.60	54.00	20.87	153	47	Horizontal
4	2390.00	46.61	9.60	74.00	27.39	164	102	Horizontal
5	2402.00	88.64	9.87	0.00	-88.64	183	240	Horizontal
6	2402.00	79.85	9.87	0.00	-79.85	186	302	Horizontal

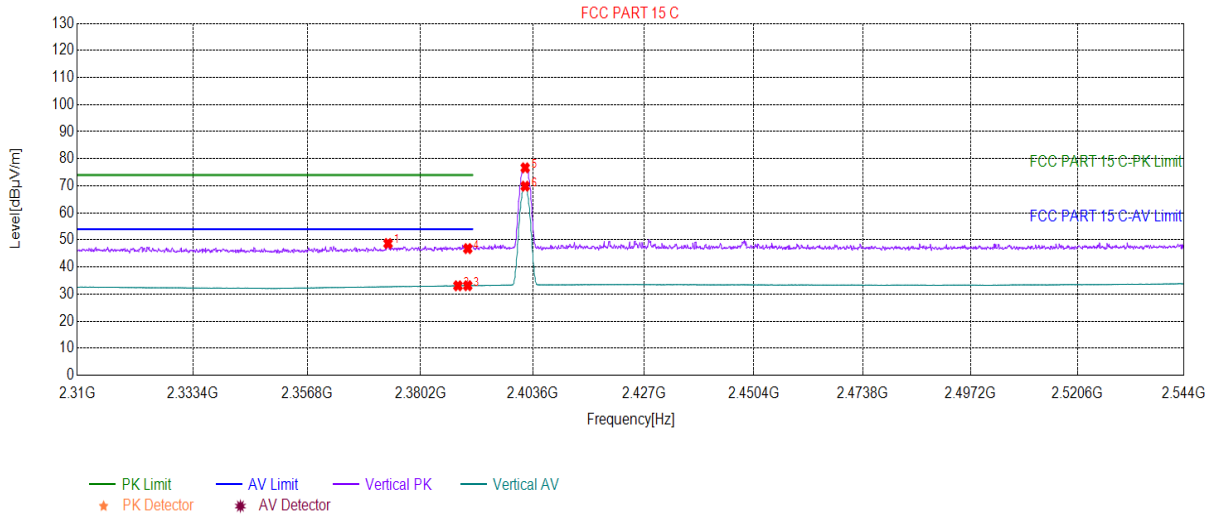
#### Final Data List



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**4.10.1.2 BLE\_1M\_Channel 0**

**Test Graph**



**Suspected List**

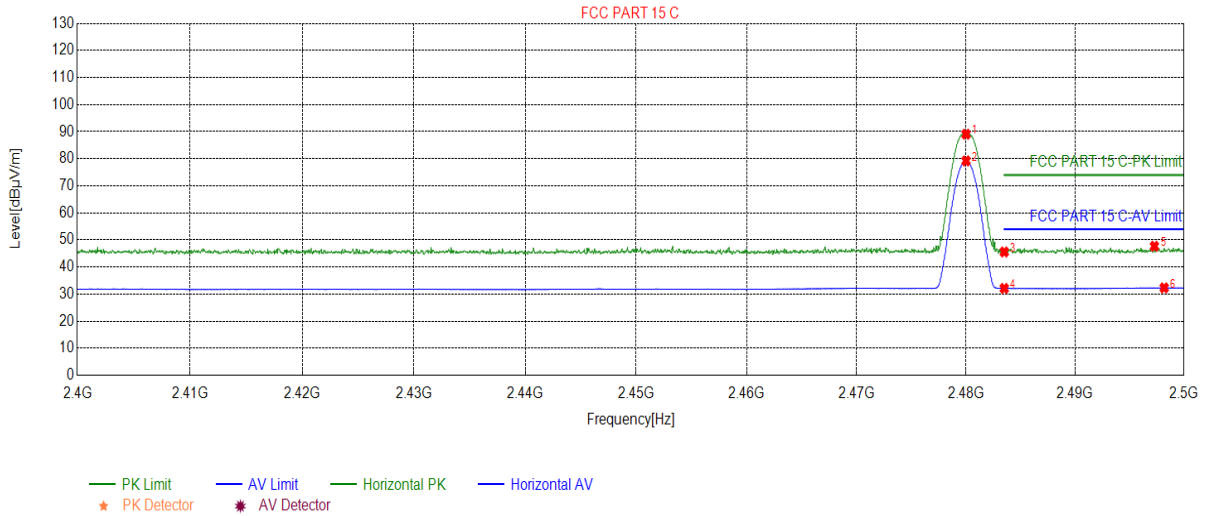
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.44	48.69	9.16	74.00	25.31	150	280.0	Vertical
2	2387.96	33.07	9.55	54.00	20.93	186	268	Vertical
3	2390.00	33.11	9.60	54.00	20.89	230	215	Vertical
4	2390.00	46.81	9.60	74.00	27.19	225	220	Vertical
5	2402.00	76.65	9.87	0.00	-76.65	164	304	Vertical
6	2402.00	69.85	9.87	0.00	-69.85	291	181	Vertical

**Final Data List**

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

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	2480.00	89.07	8.47	0.00	-89.07	230	55.0	Horizontal
2	2480.00	79.21	8.47	0.00	-79.21	225	150	Horizontal
3	2483.50	45.57	8.48	74.00	28.43	250	50	Horizontal
4	2483.50	32.11	8.48	54.00	21.89	150	183	Horizontal
5	2497.29	47.68	8.66	74.00	26.32	175	350	Horizontal
6	2498.19	32.31	8.68	54.00	21.69	160	340	Horizontal

Final Data List

Final Data List table content is not visible in the provided image.



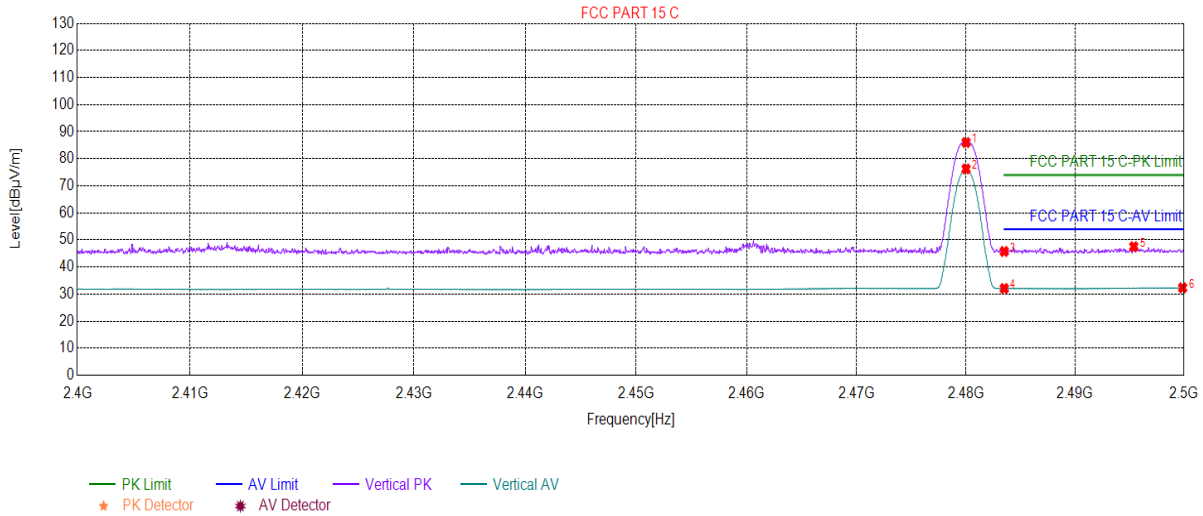
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4.10.1.4 BLE\_1M\_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	85.99	8.47	0.00	-85.99	320	150.0	Vertical
2	2480.00	76.23	8.47	0.00	-76.23	290	187	Vertical
3	2483.50	45.76	8.48	74.00	28.24	255	105	Vertical
4	2483.50	32.08	8.48	54.00	21.92	260	190	Vertical
5	2495.39	47.53	8.62	74.00	26.47	279	318	Vertical
6	2499.90	32.32	8.72	54.00	21.68	310	290	Vertical

Final Data List

Final Data List table content is not visible in the provided image.

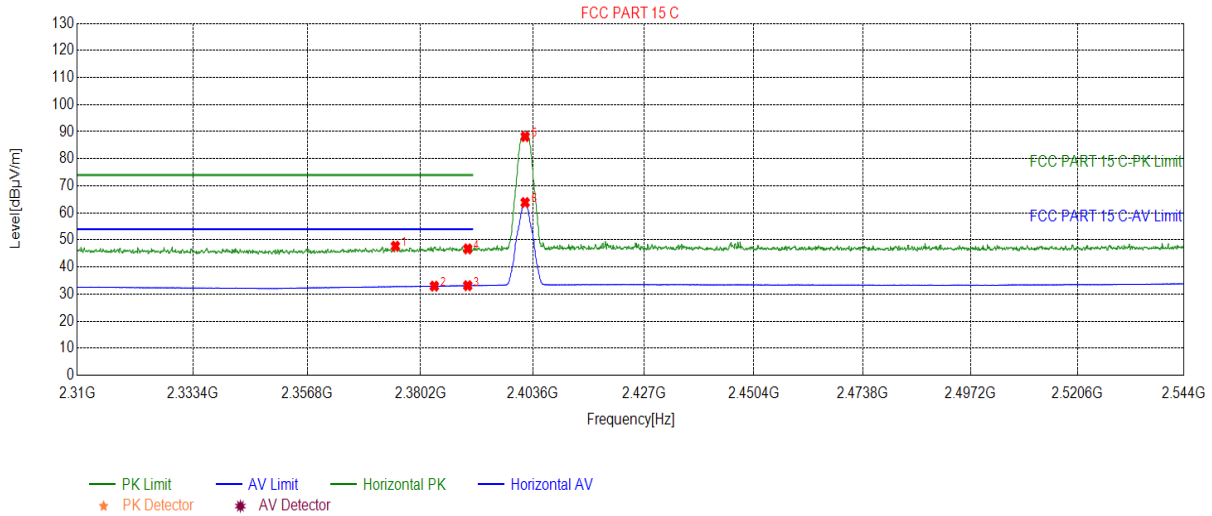


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4.10.1.5 BLE\_2M\_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.96	47.72	9.20	74.00	26.28	230	50.0	Horizontal
2	2383.04	32.94	9.41	54.00	21.06	215	150	Horizontal
3	2390.00	33.12	9.60	54.00	20.88	228	95	Horizontal
4	2390.00	46.71	9.60	74.00	27.29	157	106	Horizontal
5	2402.00	88.16	9.87	0.00	-88.16	167	175	Horizontal
6	2402.00	63.83	9.87	0.00	-63.83	245	230	Horizontal

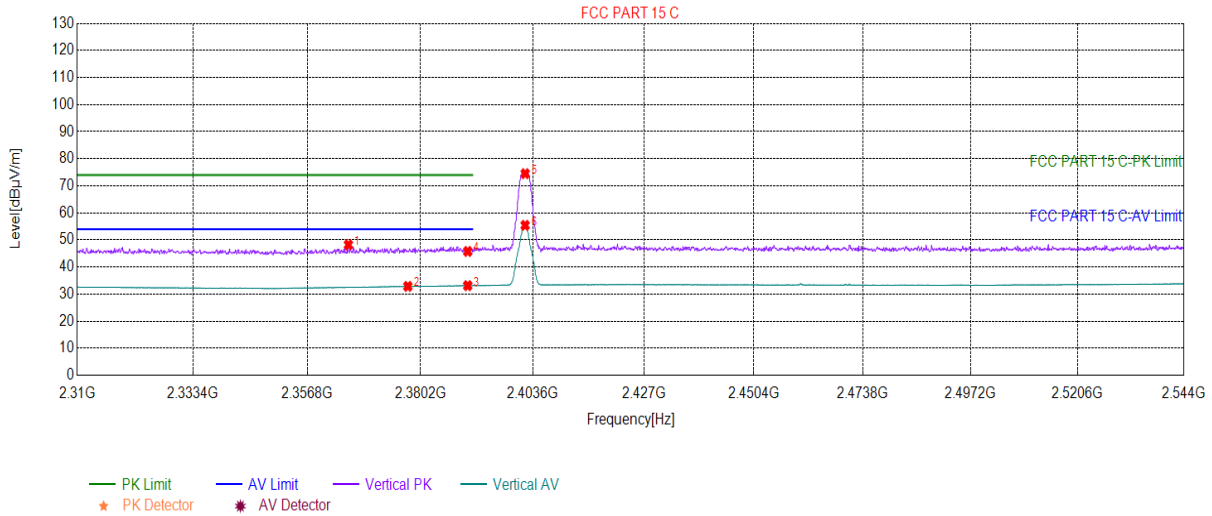
Final Data List



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### 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	2365.25	48.21	8.93	74.00	25.79	151	280.0	Vertical
2	2377.54	32.86	9.27	54.00	21.14	150	280.0	Vertical
3	2390.00	33.12	9.60	54.00	20.88	150	280.0	Vertical
4	2390.00	45.77	9.60	74.00	28.23	150	280.0	Vertical
5	2402.00	74.49	9.87	0.00	-74.49	150	280.0	Vertical
6	2402.00	55.40	9.87	0.00	-55.40	150	280.0	Vertical

#### Final Data List

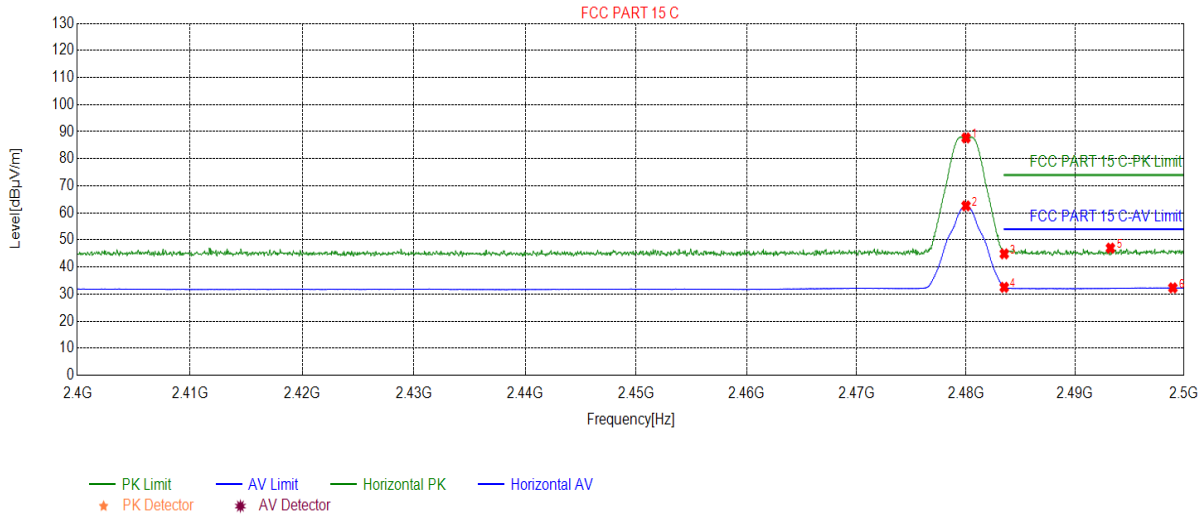
Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.25	48.21	8.93	74.00	25.79	151	280.0	Vertical
2	2377.54	32.86	9.27	54.00	21.14	150	280.0	Vertical
3	2390.00	33.12	9.60	54.00	20.88	150	280.0	Vertical
4	2390.00	45.77	9.60	74.00	28.23	150	280.0	Vertical
5	2402.00	74.49	9.87	0.00	-74.49	150	280.0	Vertical
6	2402.00	55.40	9.87	0.00	-55.40	150	280.0	Vertical



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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	2480.00	87.69	8.47	0.00	-87.69	261	50.0	Horizontal
2	2480.00	62.59	8.47	0.00	-62.59	245	50.0	Horizontal
3	2483.50	44.87	8.48	74.00	29.13	154	50.0	Horizontal
4	2483.50	32.51	8.48	54.00	21.49	132	50.0	Horizontal
5	2493.24	46.98	8.57	74.00	27.02	298	50.0	Horizontal
6	2498.99	32.31	8.70	54.00	21.69	230	50.0	Horizontal

#### Final Data List

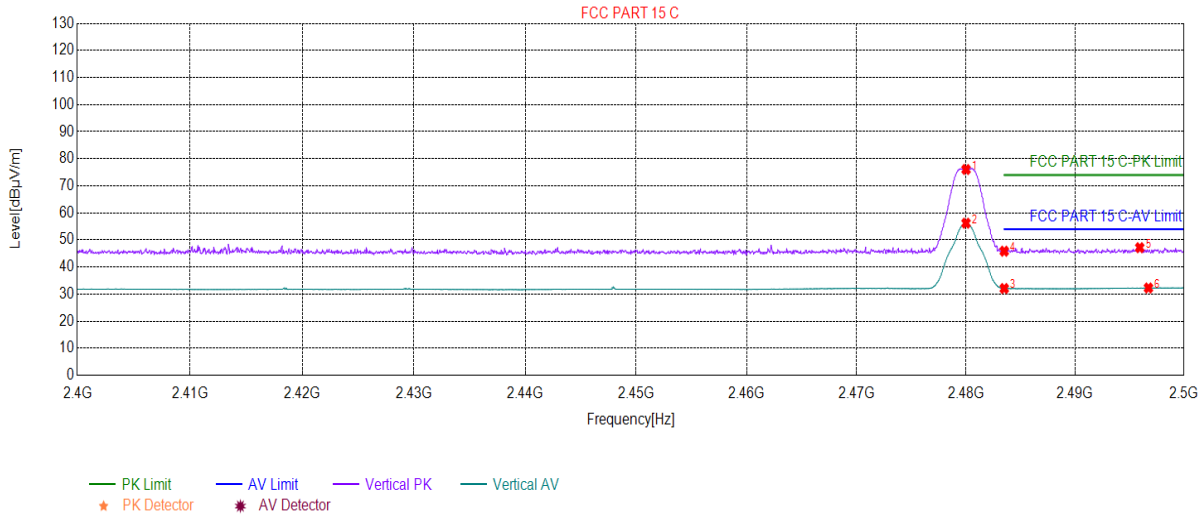


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**4.10.1.8 BLE\_2M\_Channel 39**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	76.03	8.47	0.00	-76.03	245	330.0	Vertical
2	2480.00	56.19	8.47	0.00	-56.19	241	330.0	Vertical
3	2483.50	32.07	8.48	54.00	21.93	361	330.0	Vertical
4	2483.50	45.85	8.48	74.00	28.15	246	330.0	Vertical
5	2495.94	47.15	8.63	74.00	26.85	258	330.0	Vertical
6	2496.74	32.27	8.65	54.00	21.73	354	330.0	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	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 <sup>-8</sup>
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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## 6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
				2021/4/14	2022/4/13
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
				2021/4/14	2022/4/13

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	2021-04-01	2022-03-31
				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 Setup Photos.



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# Appendix



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**DTS Bandwidth**  
**Test Result**

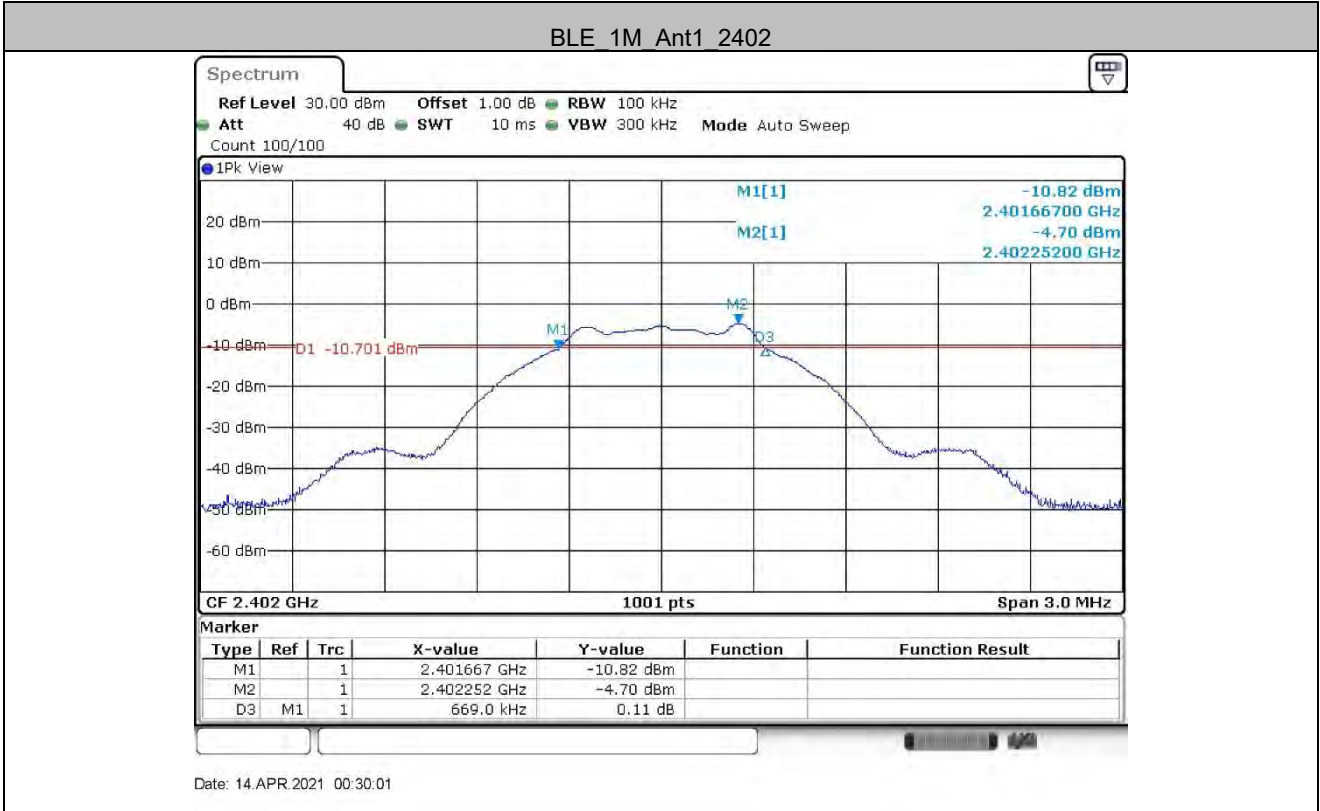
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.669	2401.667	2402.336	0.5	PASS
		2440	0.669	2439.667	2440.336	0.5	PASS
		2480	0.672	2479.664	2480.336	0.5	PASS
BLE_2M	Ant1	2402	1.175	2401.415	2402.590	0.5	PASS
		2440	1.180	2439.415	2440.595	0.5	PASS
		2480	1.180	2479.410	2480.590	0.5	PASS



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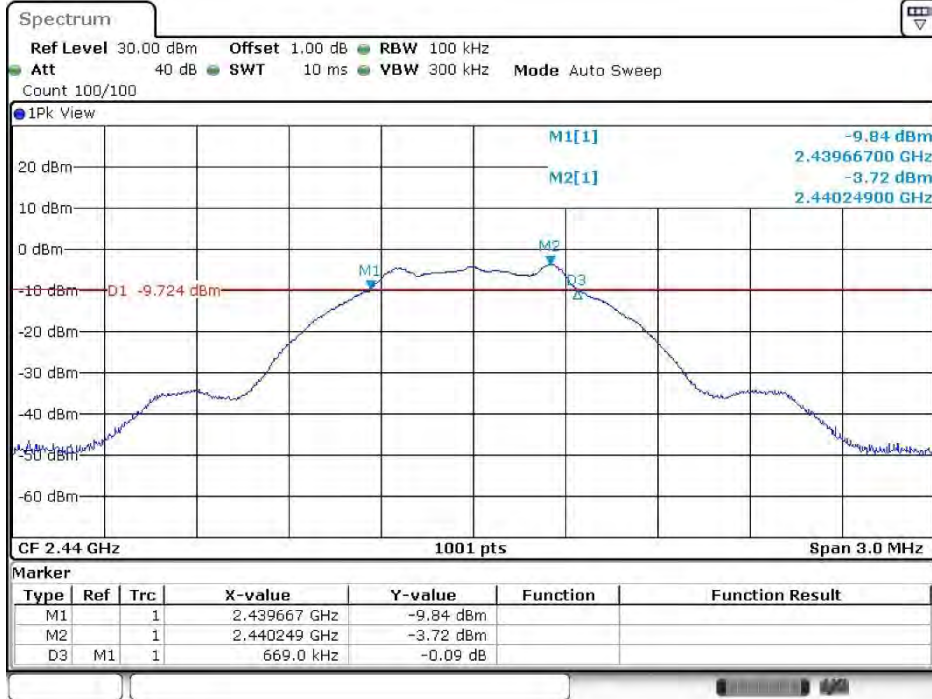
### Test Graphs



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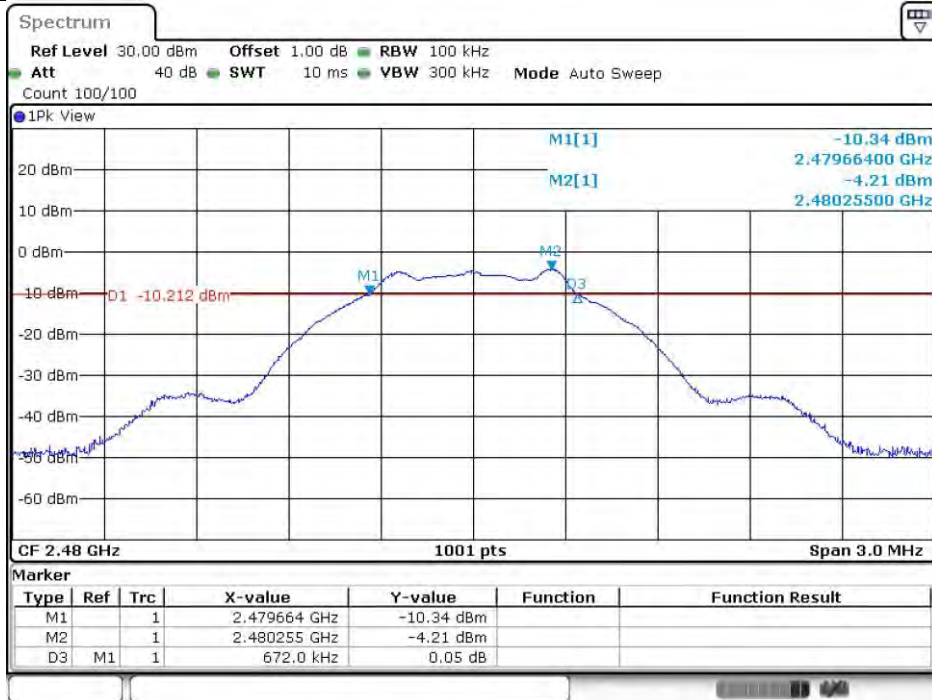


### BLE\_1M\_Ant1\_2440



Date: 14.APR.2021 00:32:03

### BLE\_1M\_Ant1\_2480

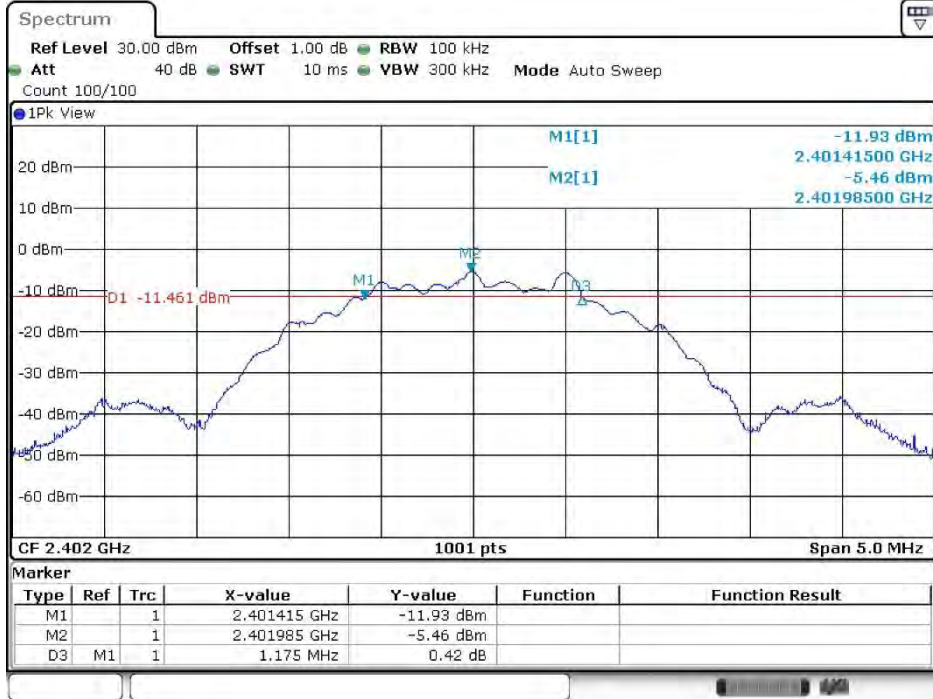


Date: 14.APR.2021 00:34:00



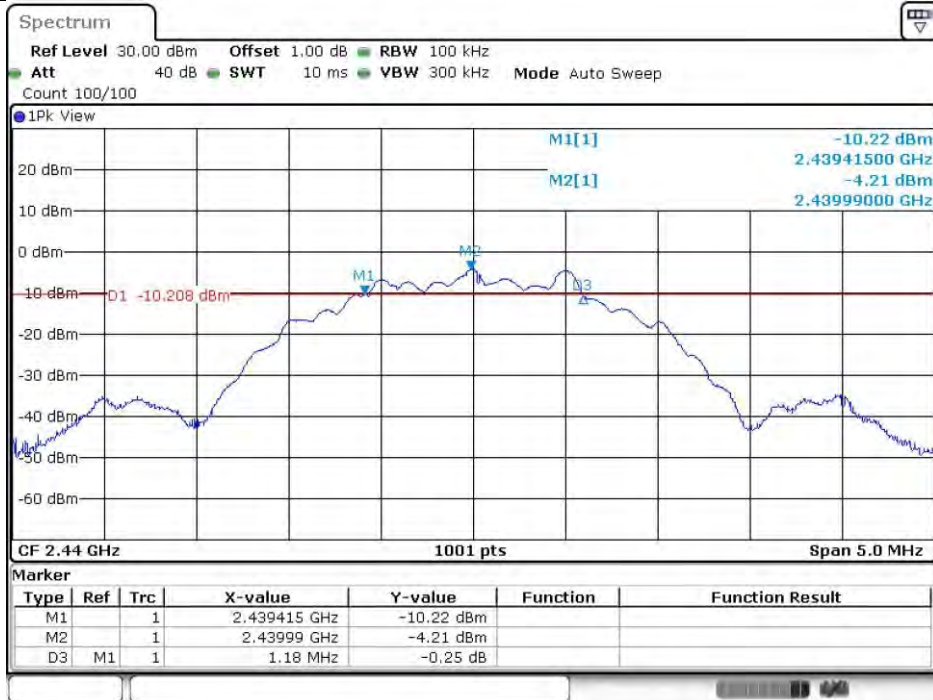
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### BLE\_2M\_Ant1\_2402



Date: 14.APR.2021 00:35:44

### BLE\_2M\_Ant1\_2440

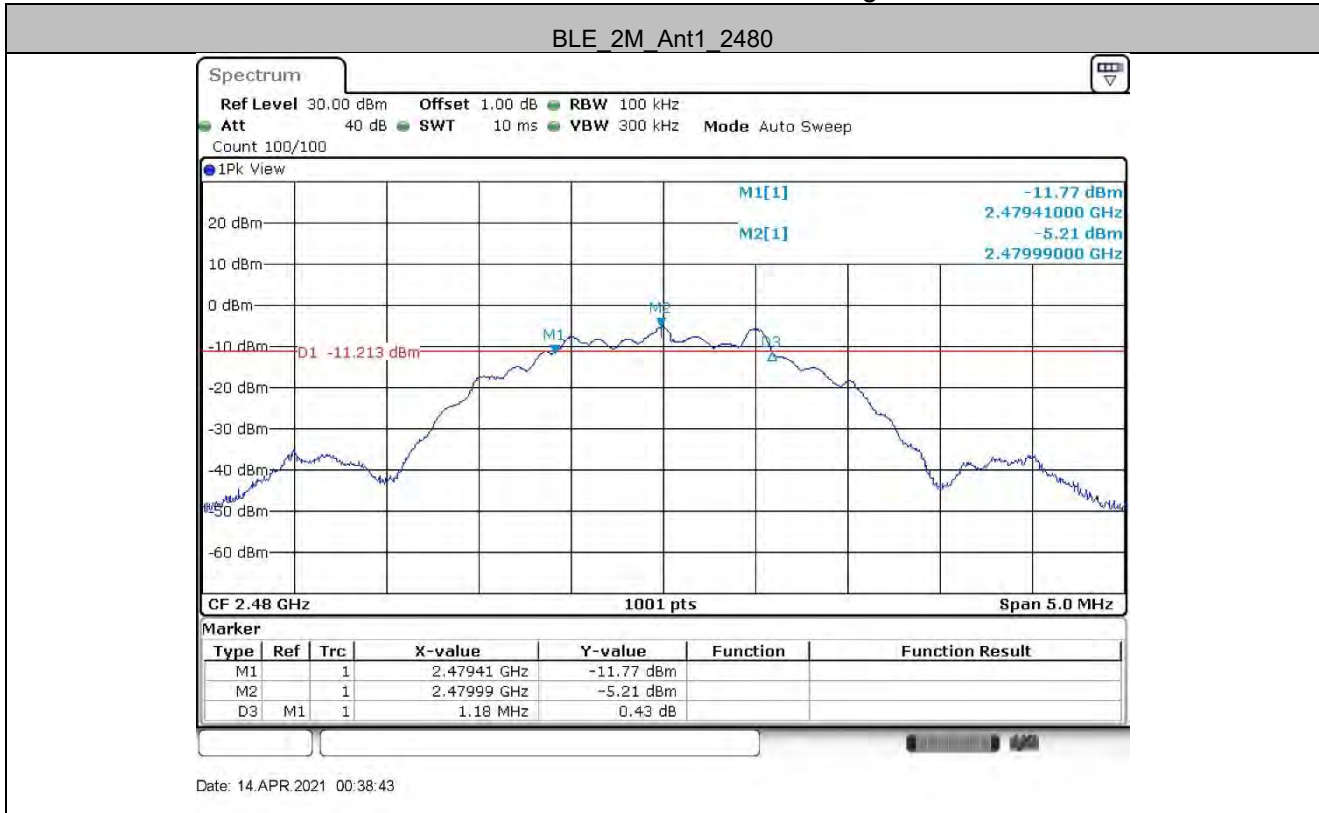


Date: 14.APR.2021 00:37:17



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**Occupied Channel Bandwidth**  
**Test Result**

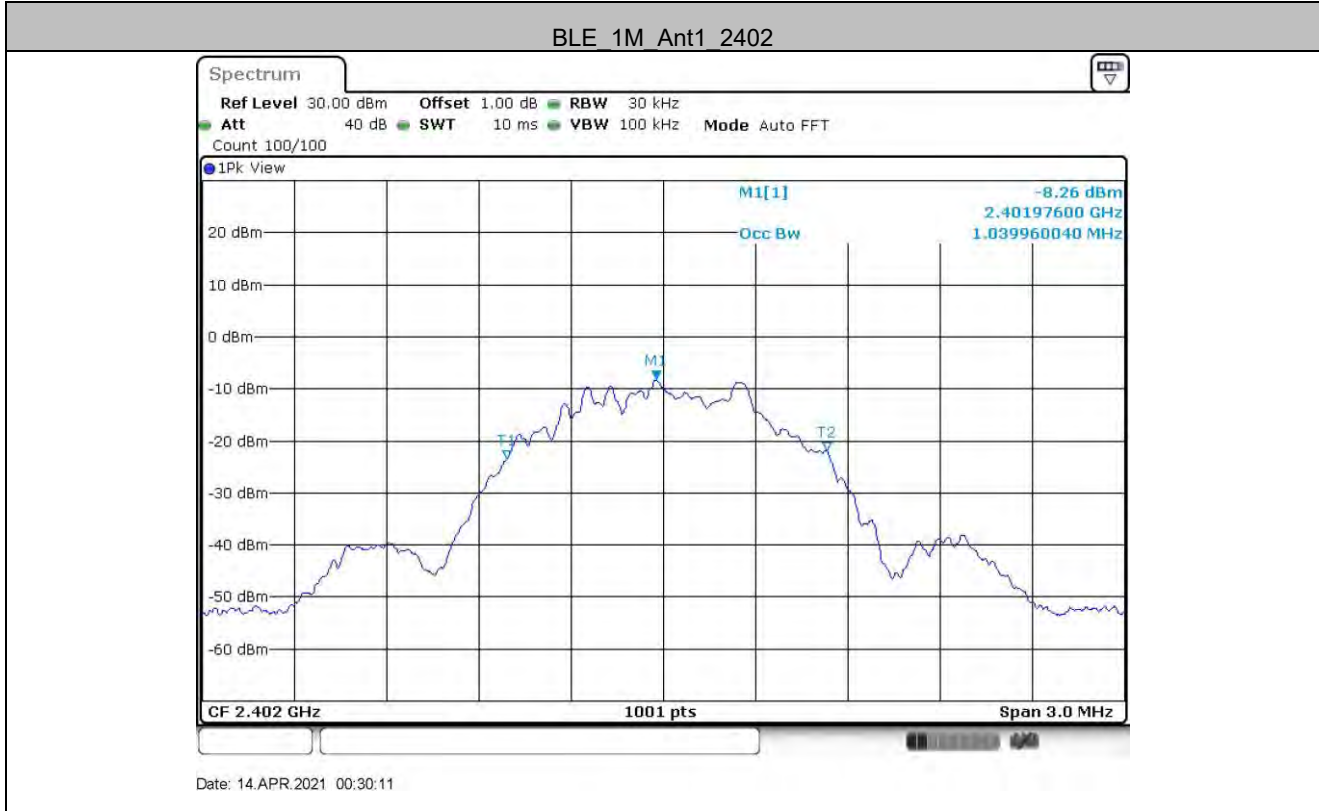
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.04	2401.491	2402.530	---	PASS
		2440	1.04	2439.491	2440.530	---	PASS
		2480	1.04	2479.488	2480.527	---	PASS
BLE_2M	Ant1	2402	2.078	2400.971	2403.049	---	PASS
		2440	2.073	2438.971	2441.044	---	PASS
		2480	2.073	2478.966	2481.039	---	PASS



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### Test Graphs



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 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

### BLE\_1M\_Ant1\_2440



Date: 14.APR.2021 00:32:15

### BLE\_1M\_Ant1\_2480



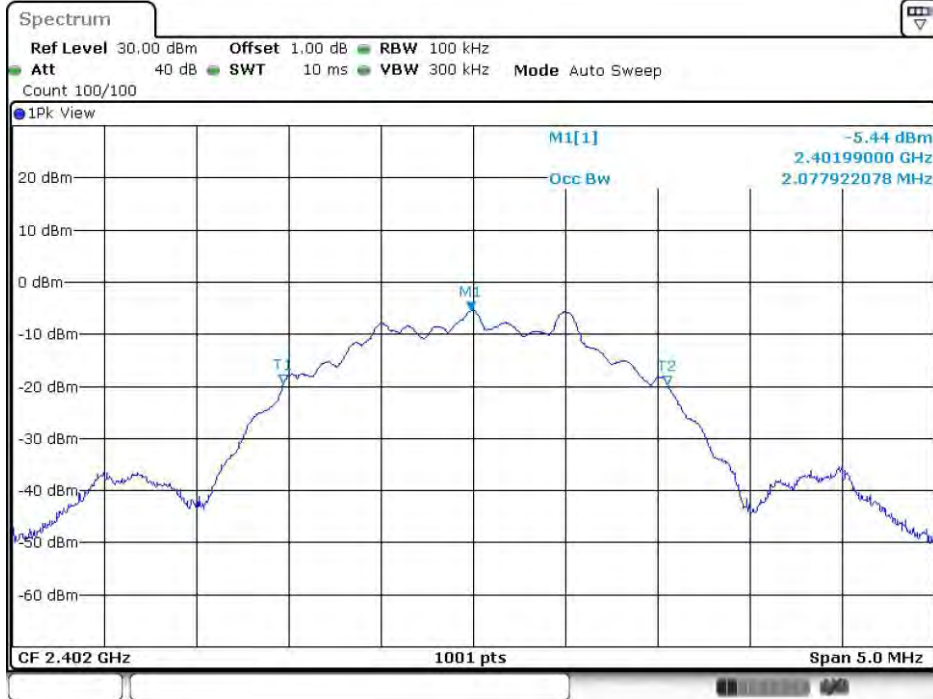
Date: 14.APR.2021 00:34:10



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### BLE\_2M\_Ant1\_2402



Date: 14.APR.2021 00:35:54

### BLE\_2M\_Ant1\_2440



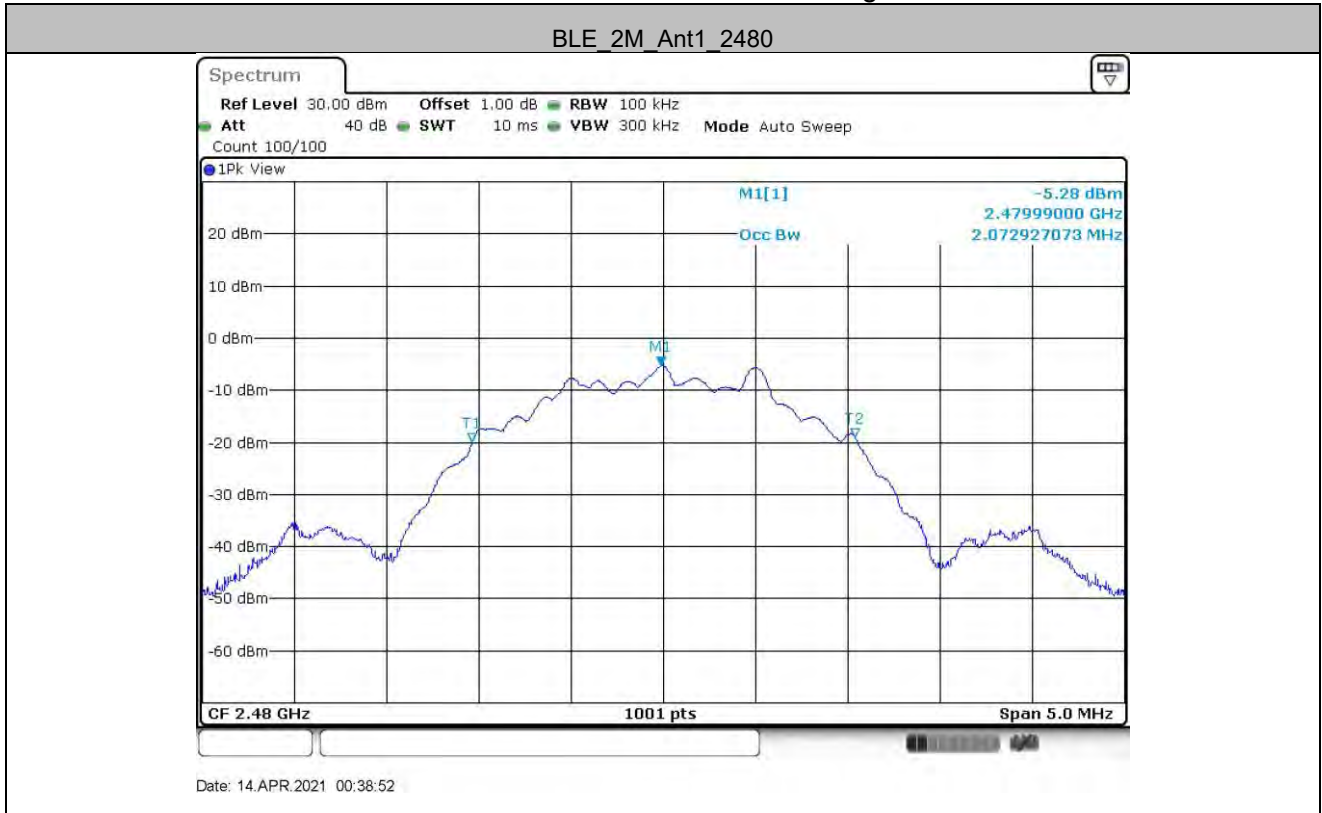
Date: 14.APR.2021 00:37:27



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**Maximum conducted output power**  
**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-4.1	<=30	PASS
		2440	-3.14	<=30	PASS
		2480	-3.57	<=30	PASS
BLE_2M	Ant1	2402	-4.13	<=30	PASS
		2440	-2.97	<=30	PASS
		2480	-3.96	<=30	PASS



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## Test Graphs



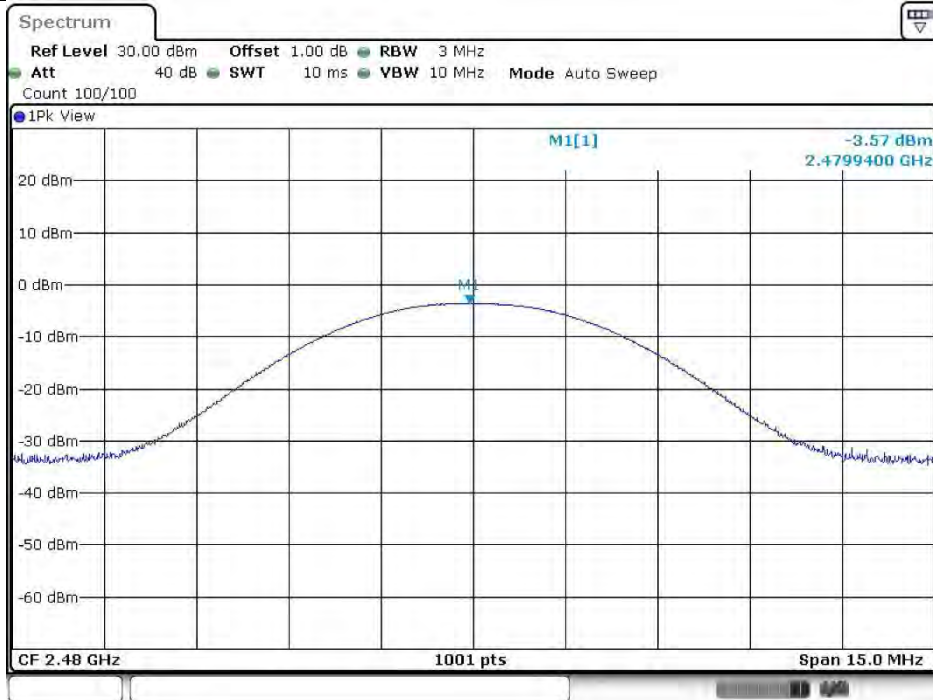
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### BLE\_1M\_Ant1\_2440



Date: 14 APR 2021 00:32:25

### BLE\_1M\_Ant1\_2480



Date: 14 APR 2021 00:34:15



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### BLE\_2M\_Ant1\_2402



Date: 14 APR 2021 00:36:00

### BLE\_2M\_Ant1\_2440



Date: 14 APR 2021 00:37:32



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**Maximum power spectral density**  
**Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-21.28	<=8	PASS
		2440	-20.34	<=8	PASS
		2480	-20.82	<=8	PASS
BLE_2M	Ant1	2402	-23.28	<=8	PASS
		2440	-22.16	<=8	PASS
		2480	-23.21	<=8	PASS



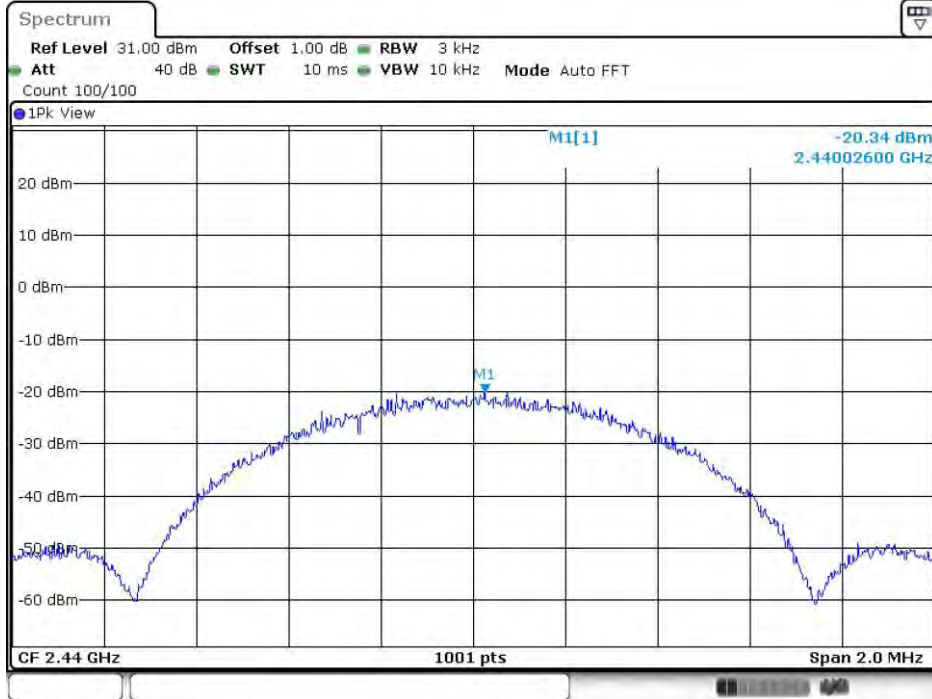
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### Test Graphs



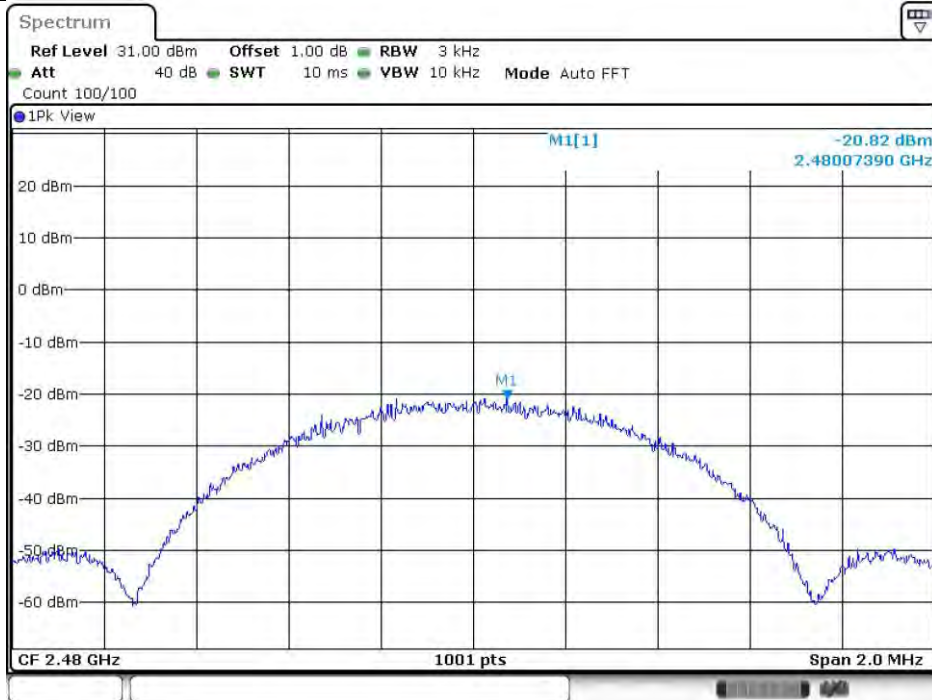
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### BLE\_1M\_Ant1\_2440



Date: 14.APR.2021 00:32:31

### BLE\_1M\_Ant1\_2480



Date: 14.APR.2021 00:34:21

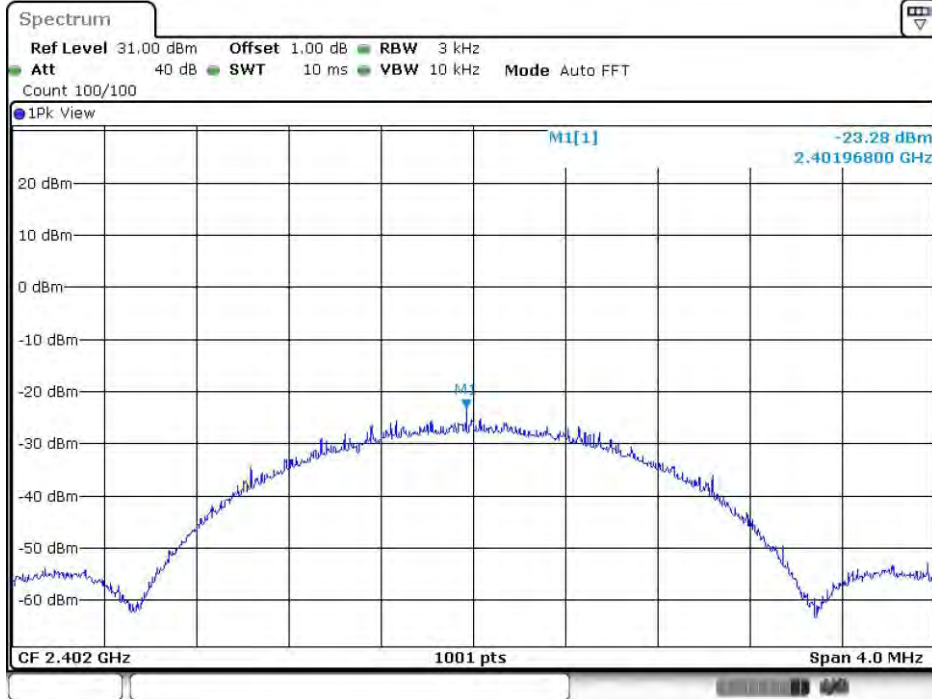


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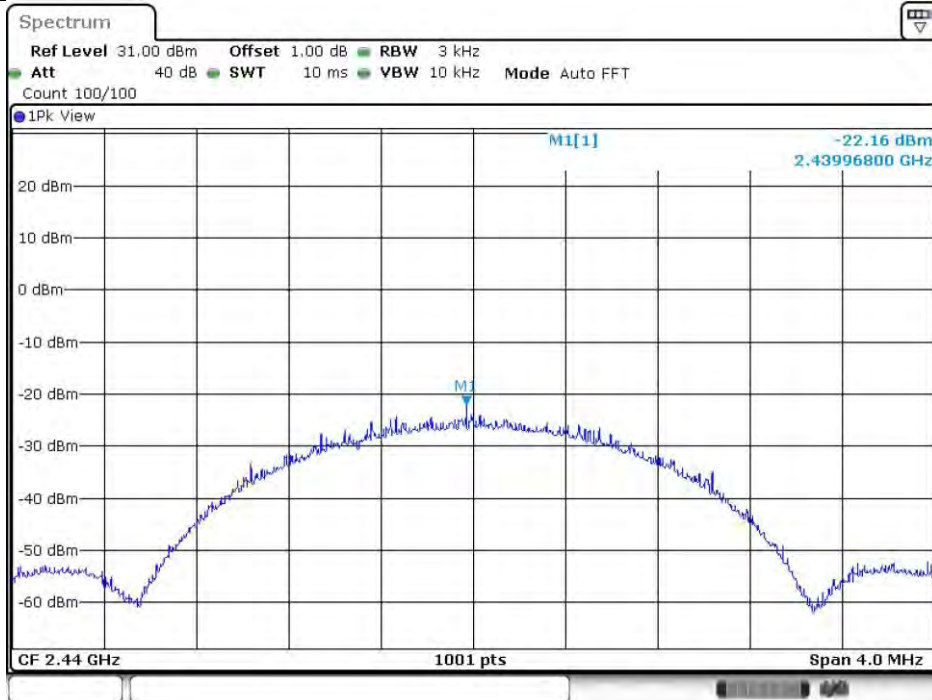


### BLE\_2M\_Ant1\_2402



Date: 14.APR.2021 00:36:04

### BLE\_2M\_Ant1\_2440

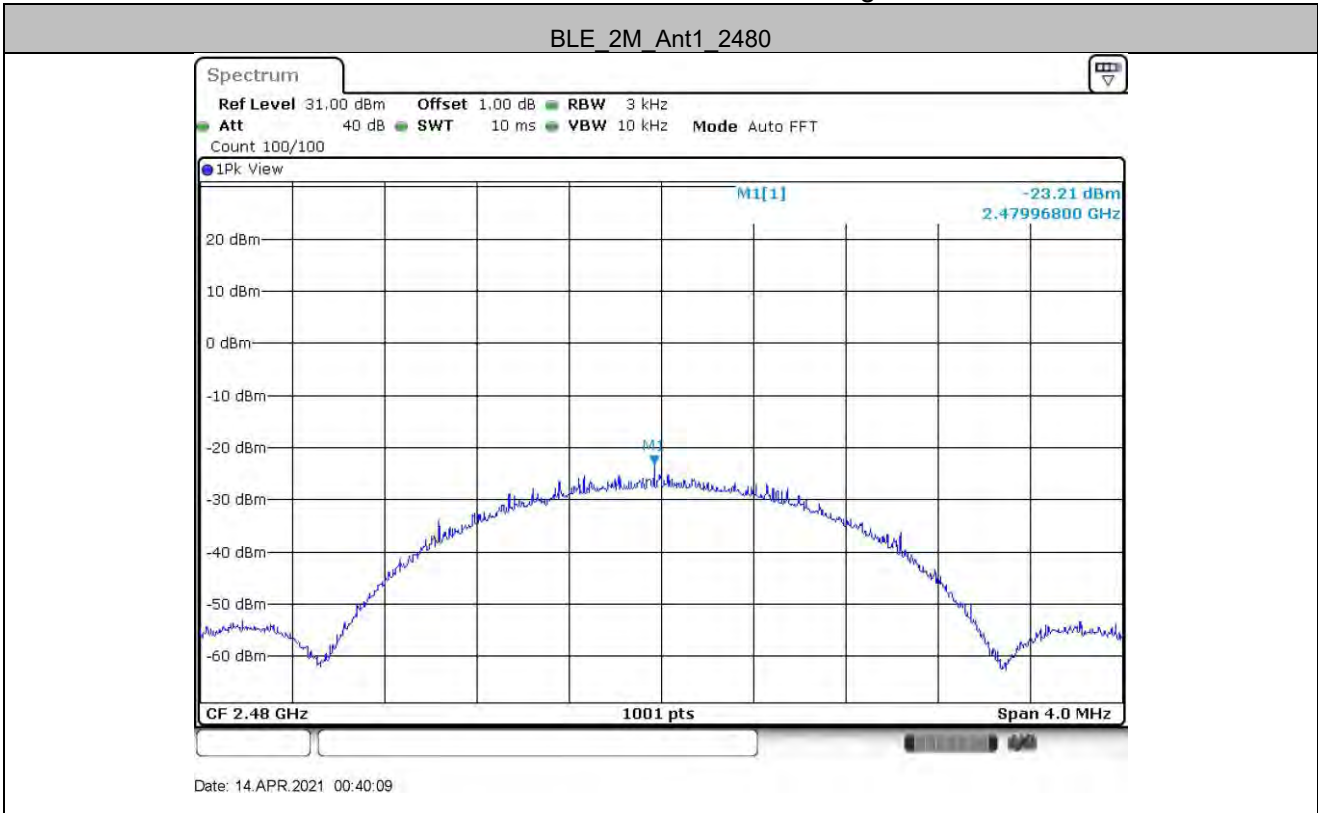


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**Band edge measurements**  
**Test Result**

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-4.58	-57.64	<=-24.58	PASS
		High	2480	-4.12	-56.59	<=-24.12	PASS
BLE_2M	Ant1	Low	2402	-5.56	-38.55	<=-25.56	PASS
		High	2480	-5.30	-56.77	<=-25.3	PASS

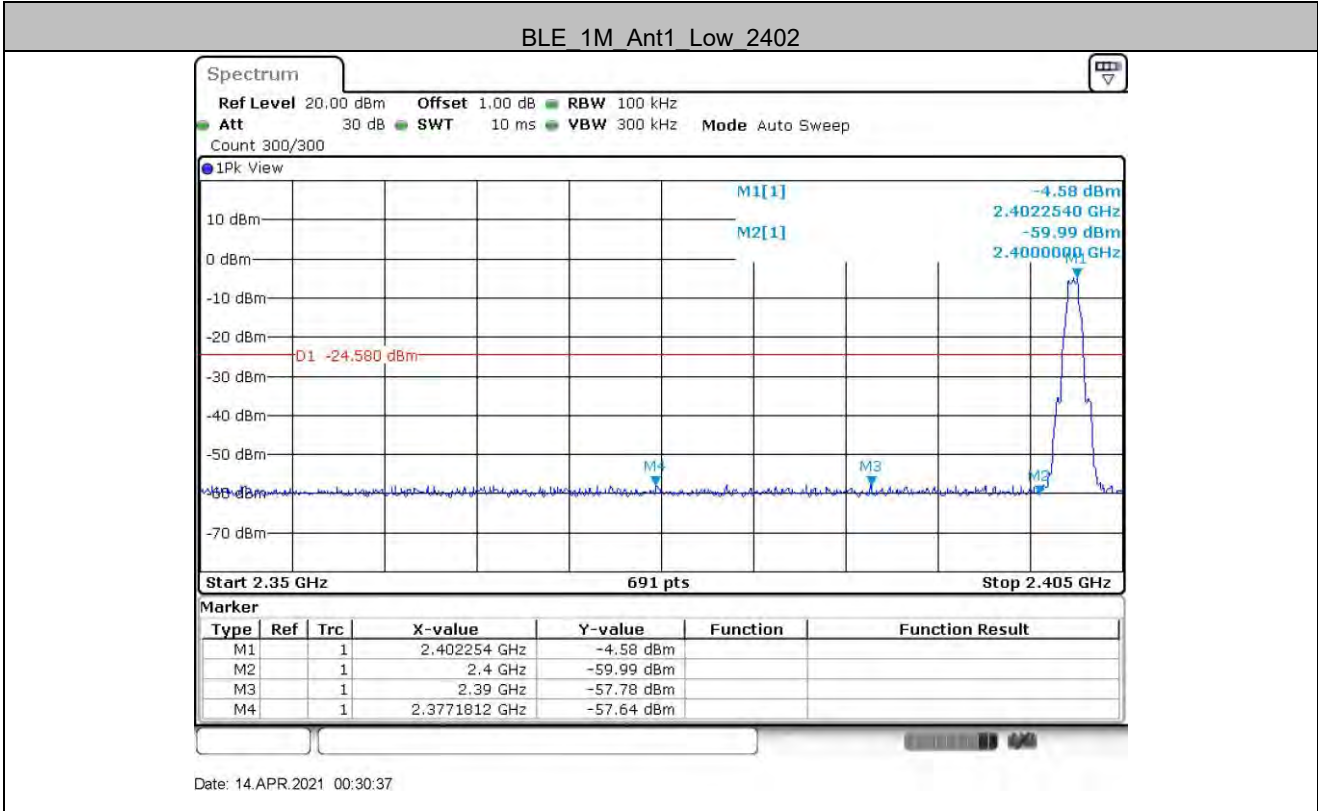


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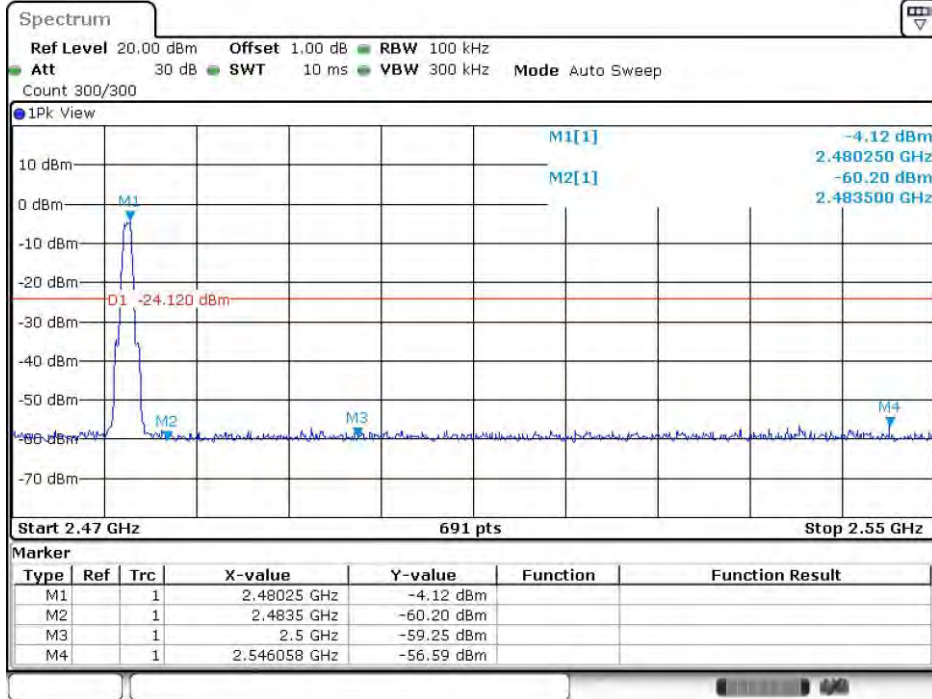
### Test Graphs



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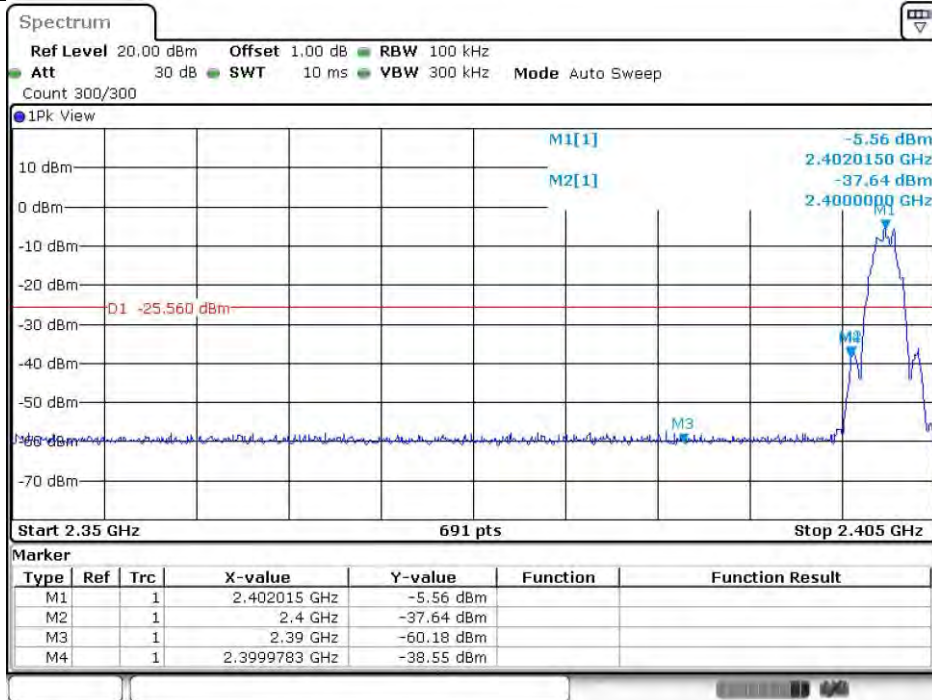


### BLE\_1M\_Ant1\_High\_2480



Date: 14.APR.2021 00:34:29

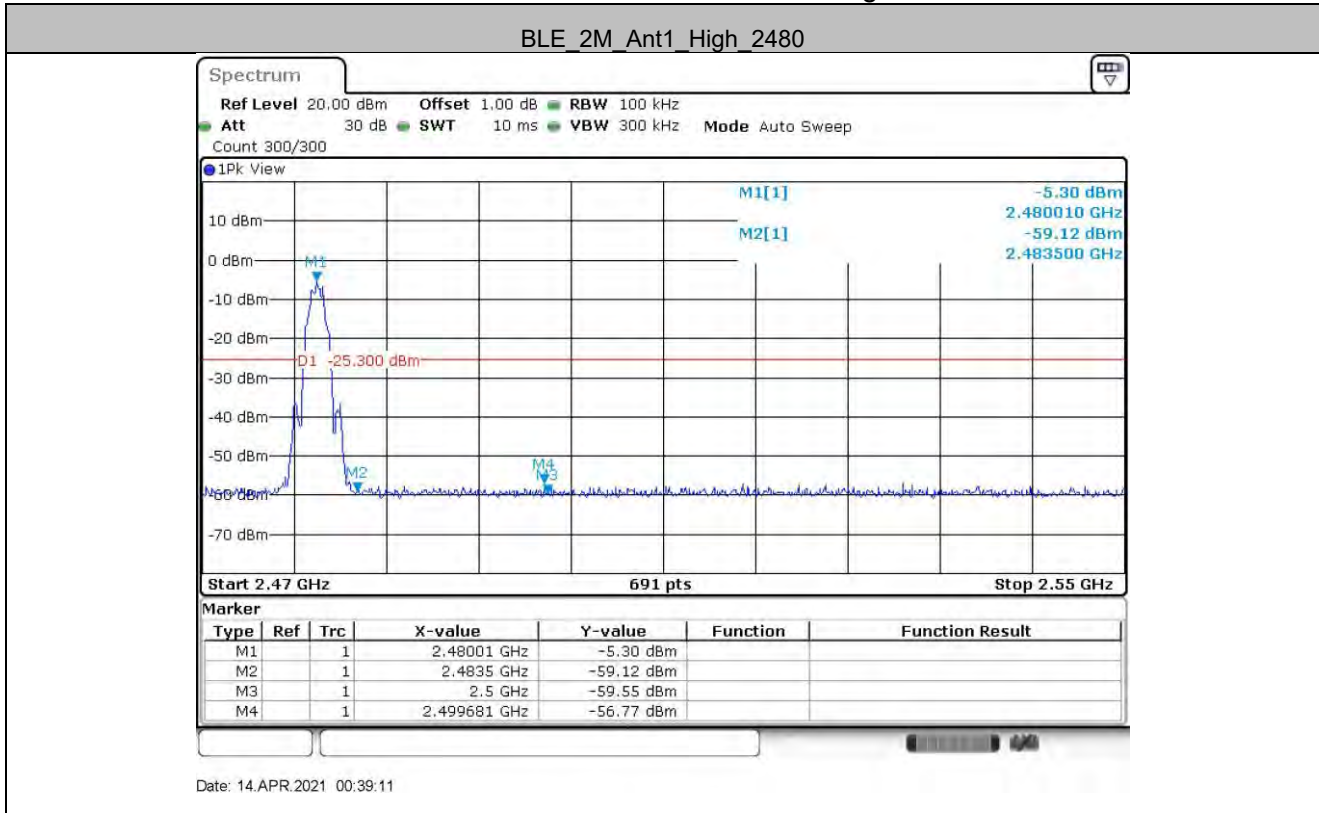
### BLE\_2M\_Ant1\_Low\_2402



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**Conducted Spurious Emission**  
**Test Result**

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.58	-4.58	---	PASS
			30~1000	-4.58	-44.49	<=-24.58	PASS
			1000~26500	-4.58	-31	<=-24.58	PASS
		2440	Reference	-3.59	-3.59	---	PASS
			30~1000	-3.59	-45.96	<=-23.59	PASS
			1000~26500	-3.59	-30.2	<=-23.59	PASS
		2480	Reference	-4.21	-4.21	---	PASS
			30~1000	-4.21	-44.57	<=-24.21	PASS
			1000~26500	-4.21	-30.91	<=-24.21	PASS
BLE_2M	Ant1	2402	Reference	-5.33	-5.33	---	PASS
			30~1000	-5.33	-44.36	<=-25.33	PASS
			1000~26500	-5.33	-29.92	<=-25.33	PASS
		2440	Reference	-4.13	-4.13	---	PASS
			30~1000	-4.13	-43.27	<=-24.13	PASS
			1000~26500	-4.13	-31.21	<=-24.13	PASS
		2480	Reference	-5.28	-5.28	---	PASS
			30~1000	-5.28	-44.78	<=-25.28	PASS
			1000~26500	-5.28	-30.9	<=-25.28	PASS

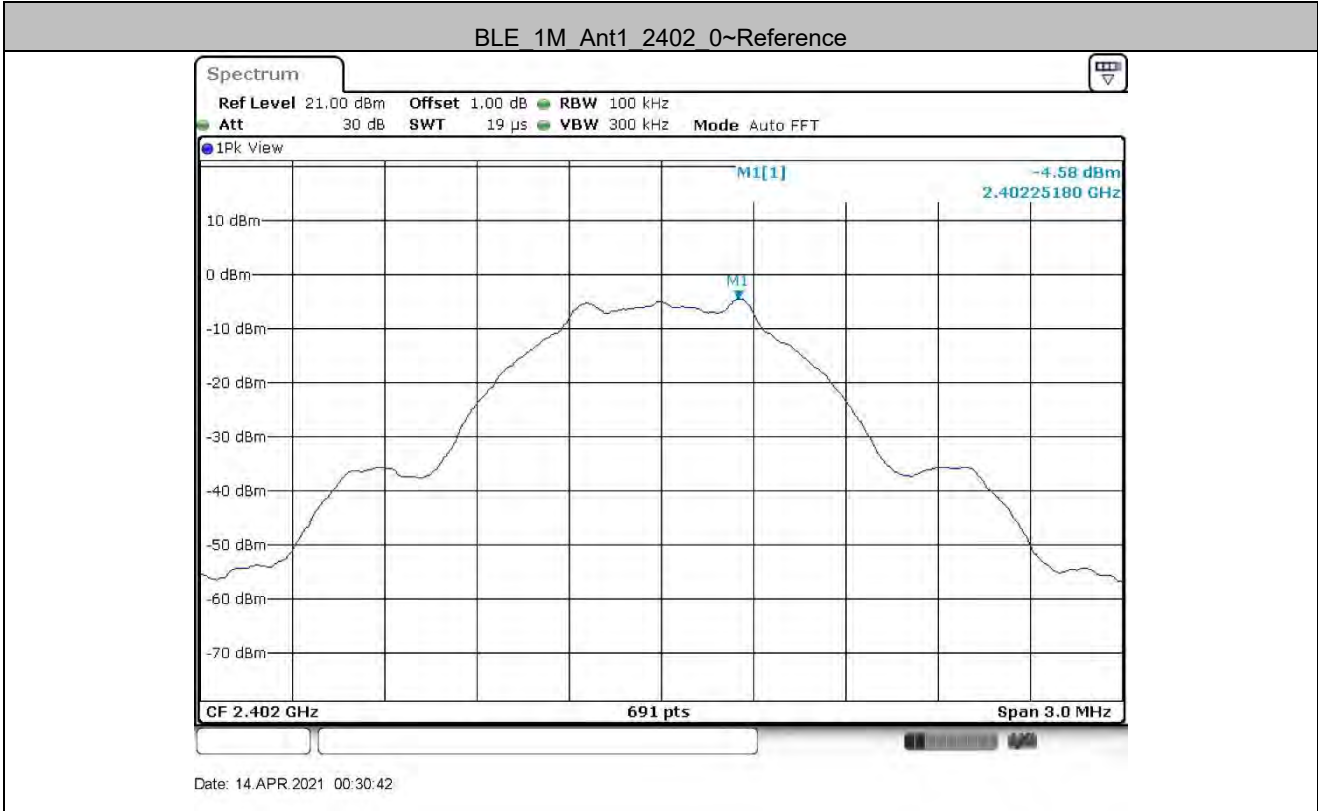


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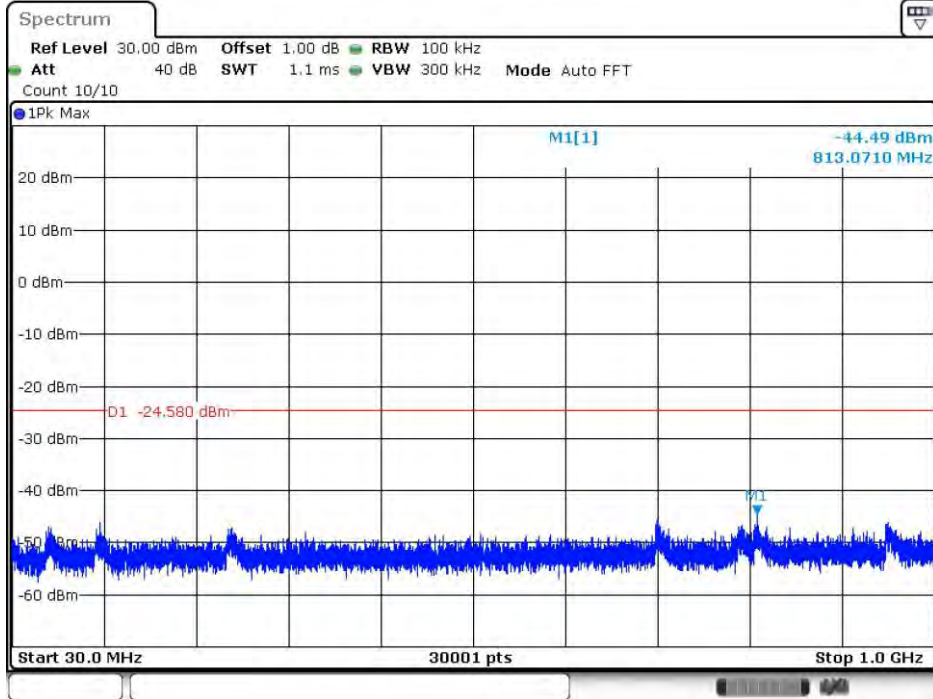
## Test Graphs



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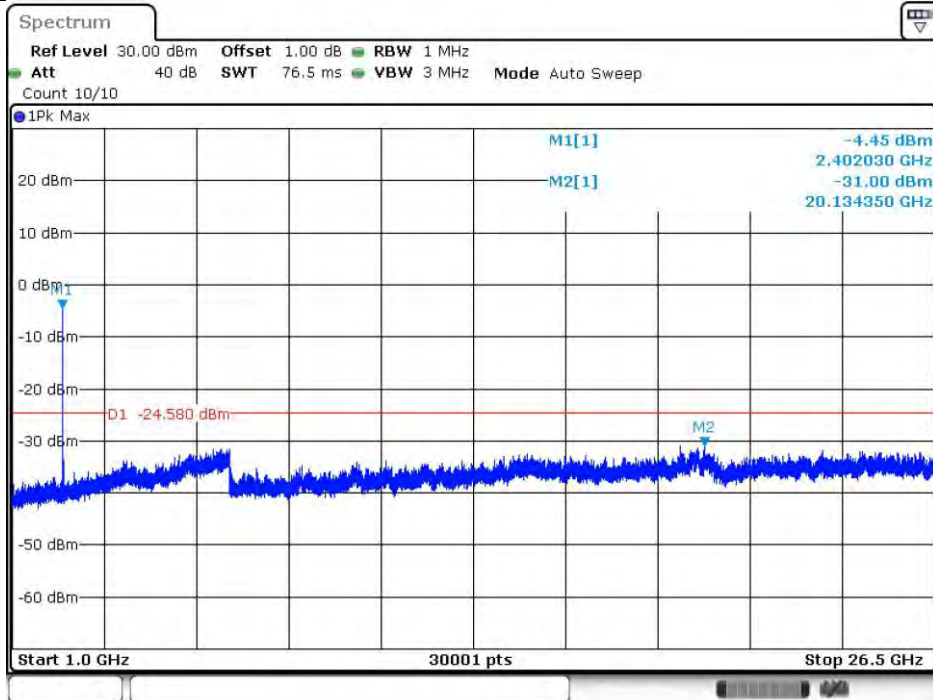


BLE 1M Ant1 2402\_30~1000



Date: 14.APR.2021 00:30:47

BLE 1M Ant1 2402\_1000~26500



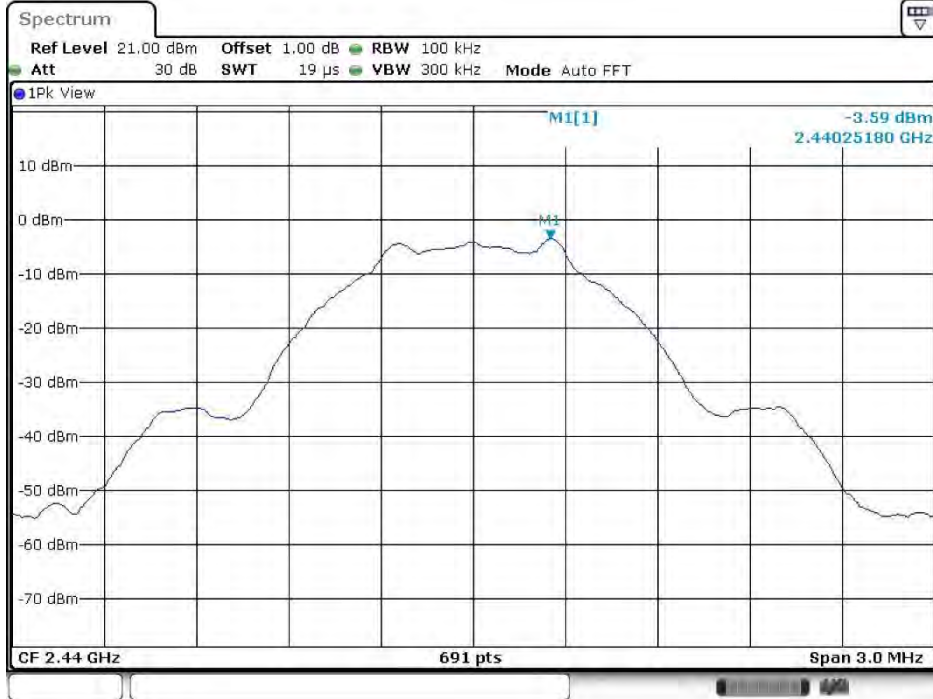
Date: 14.APR.2021 00:31:11



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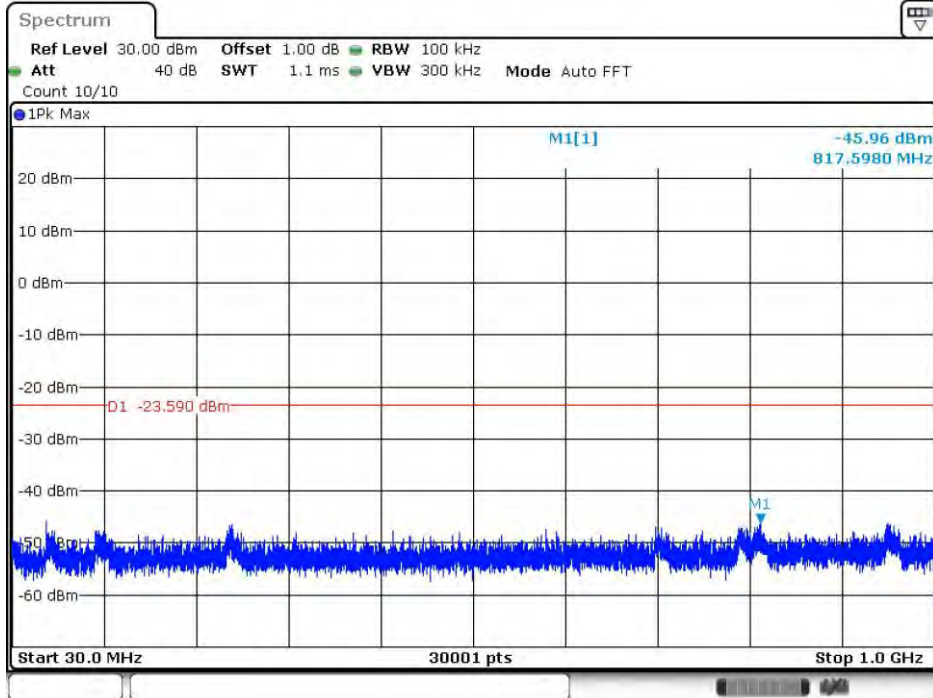
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BLE 1M Ant1 2440 0~Reference



Date: 14.APR.2021 00:32:35

BLE 1M Ant1 2440 30~1000

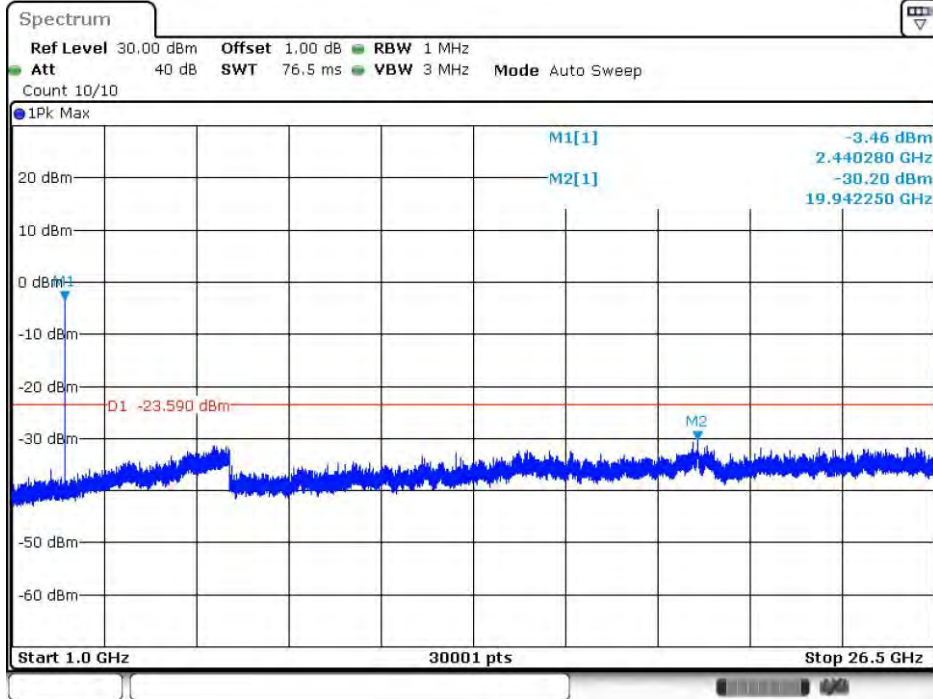


Date: 14.APR.2021 00:32:40



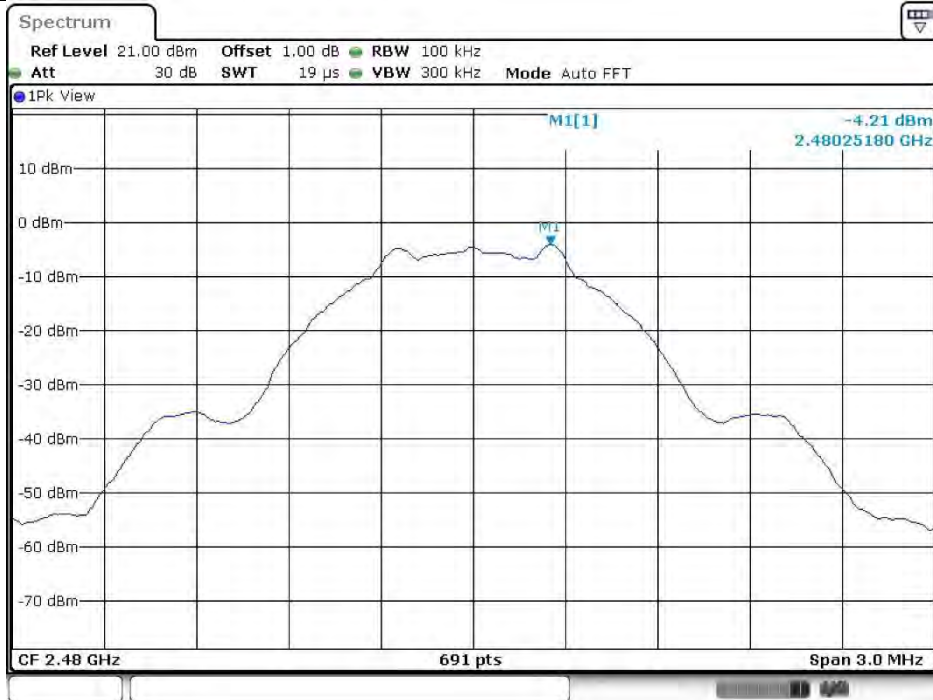
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BLE 1M Ant1 2440 1000~26500



Date: 14.APR.2021 00:33:02

BLE 1M Ant1 2480 0~Reference



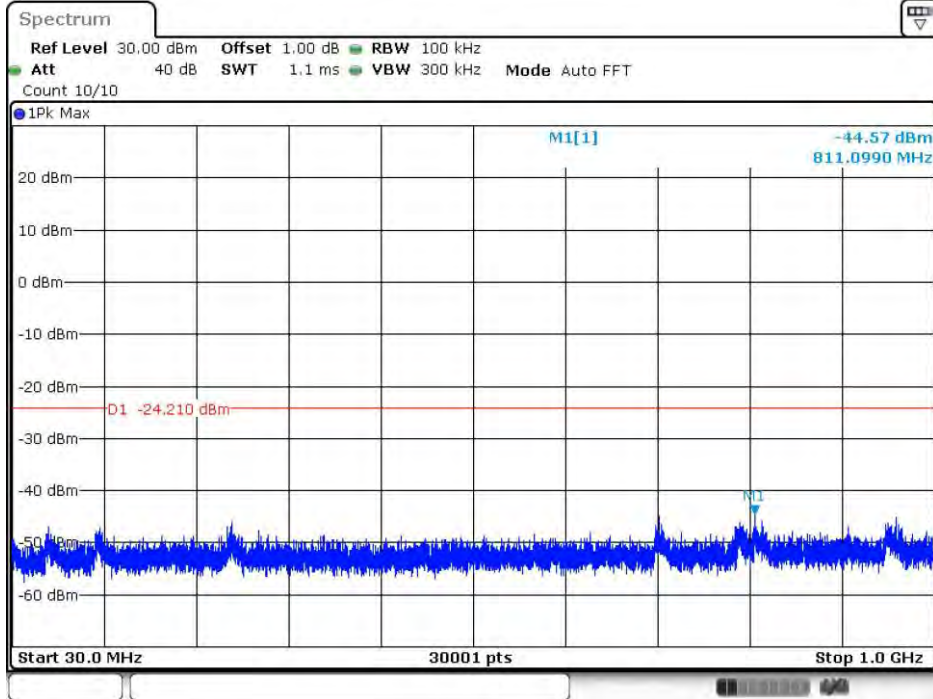
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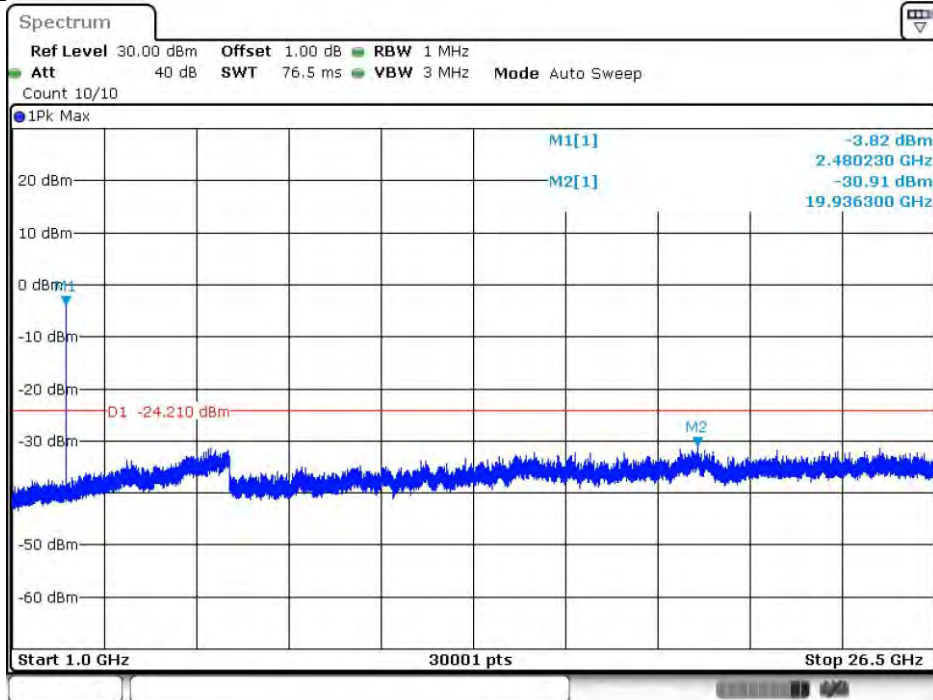


BLE 1M Ant1 2480\_30~1000



Date: 14.APR.2021 00:34:38

BLE 1M Ant1 2480\_1000~26500



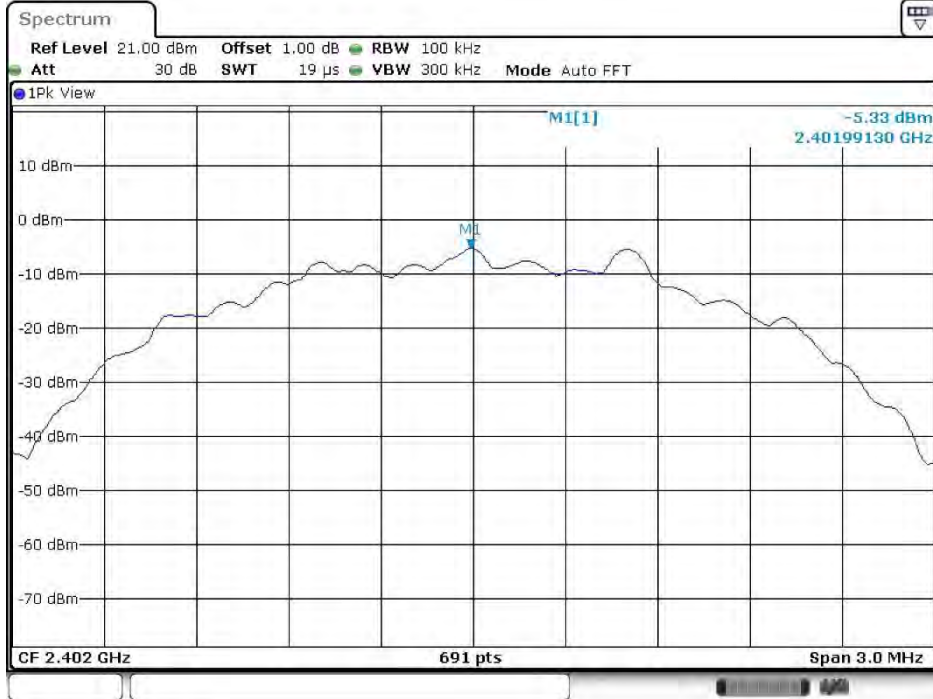
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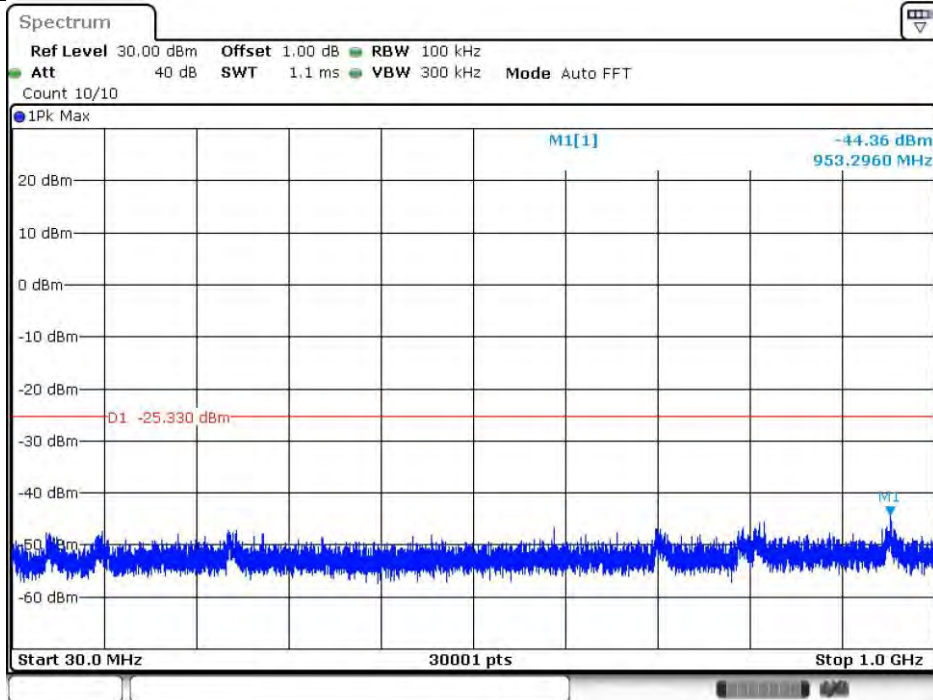


BLE 2M Ant1 2402\_0~Reference



Date: 14.APR.2021 00:36:17

BLE 2M Ant1 2402\_30~1000

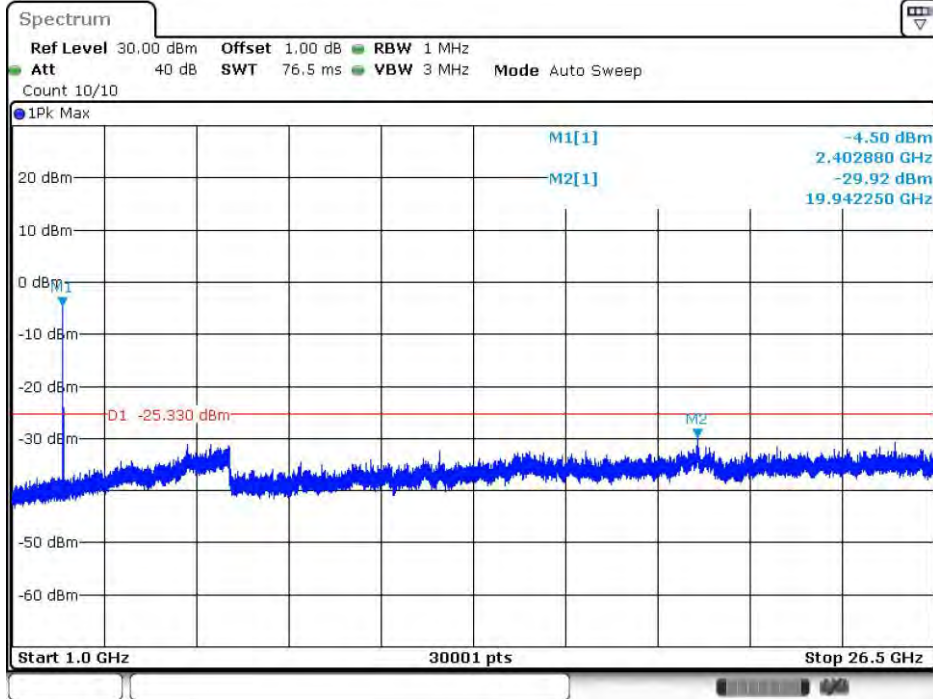


Date: 14.APR.2021 00:36:21



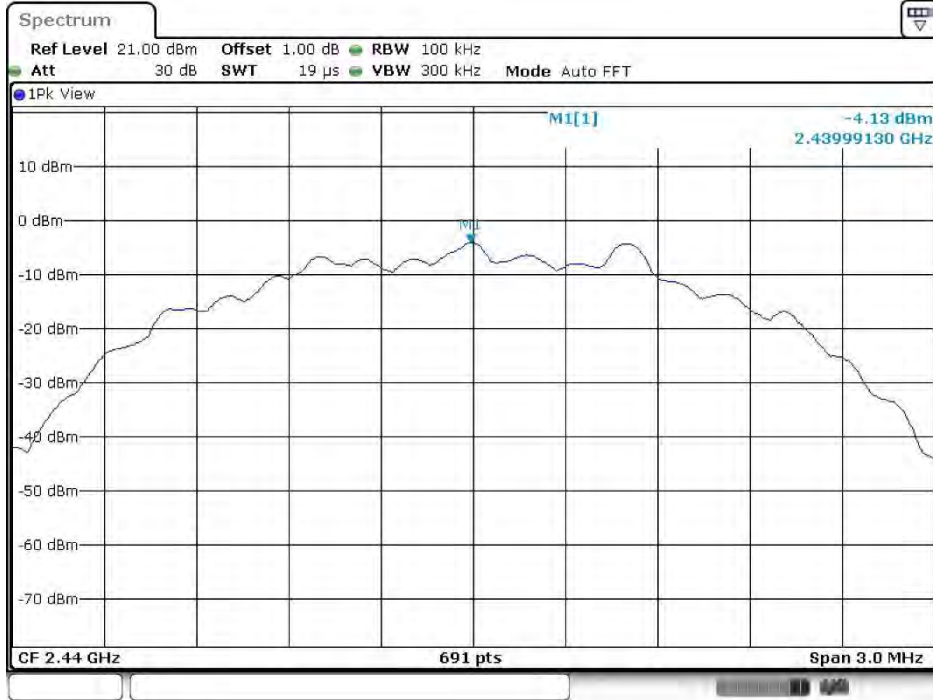
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BLE 2M Ant1 2402 1000~26500



Date: 14.APR.2021 00:36:43

BLE 2M Ant1 2440 0~Reference

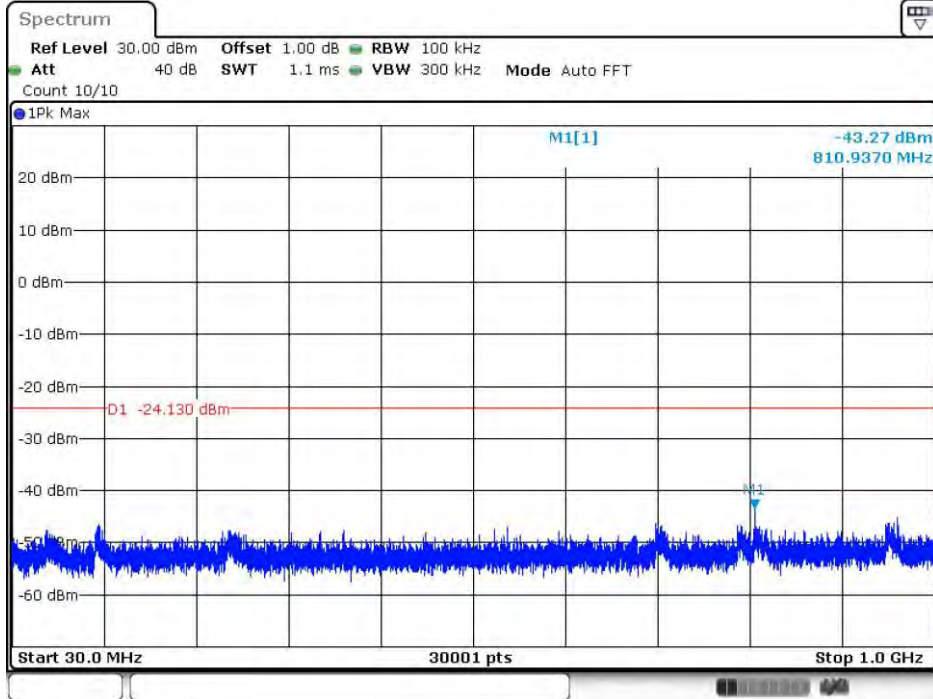


Date: 14.APR.2021 00:37:42



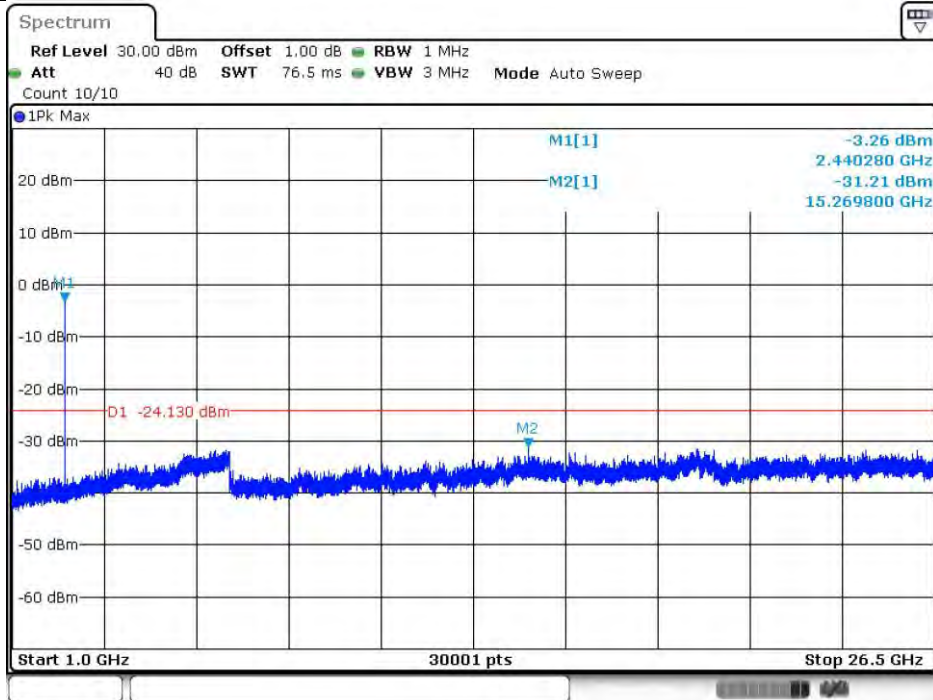
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BLE 2M Ant1 2440\_30~1000



Date: 14.APR.2021 00:37:46

BLE 2M Ant1 2440\_1000~26500



Date: 14.APR.2021 00:38:08

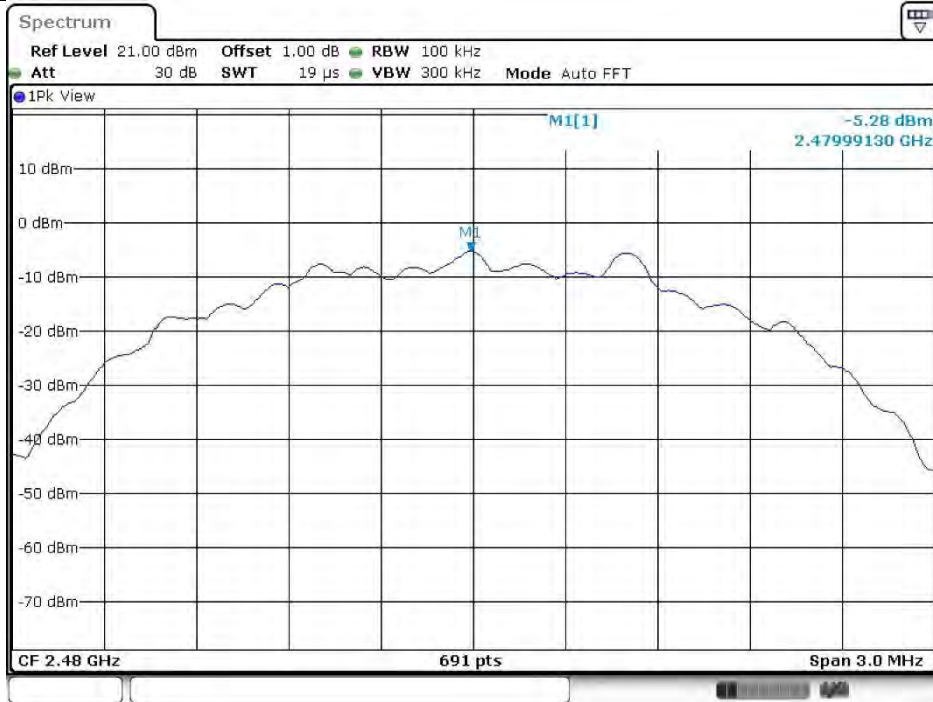


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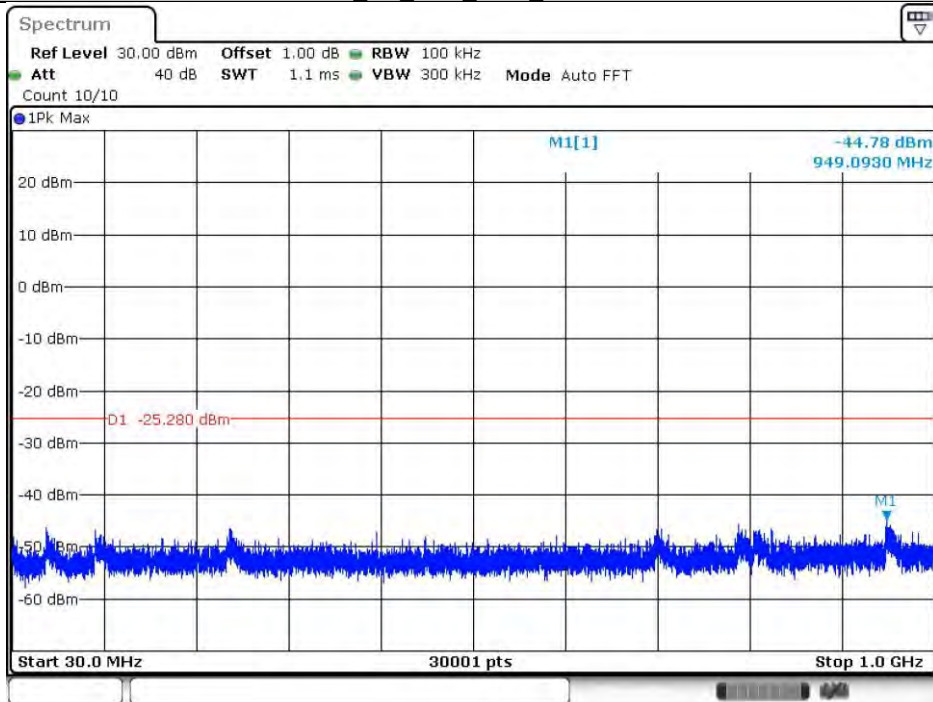


BLE 2M Ant1 2480 0~Reference



Date: 14.APR.2021 00:39:15

BLE 2M Ant1 2480 30~1000



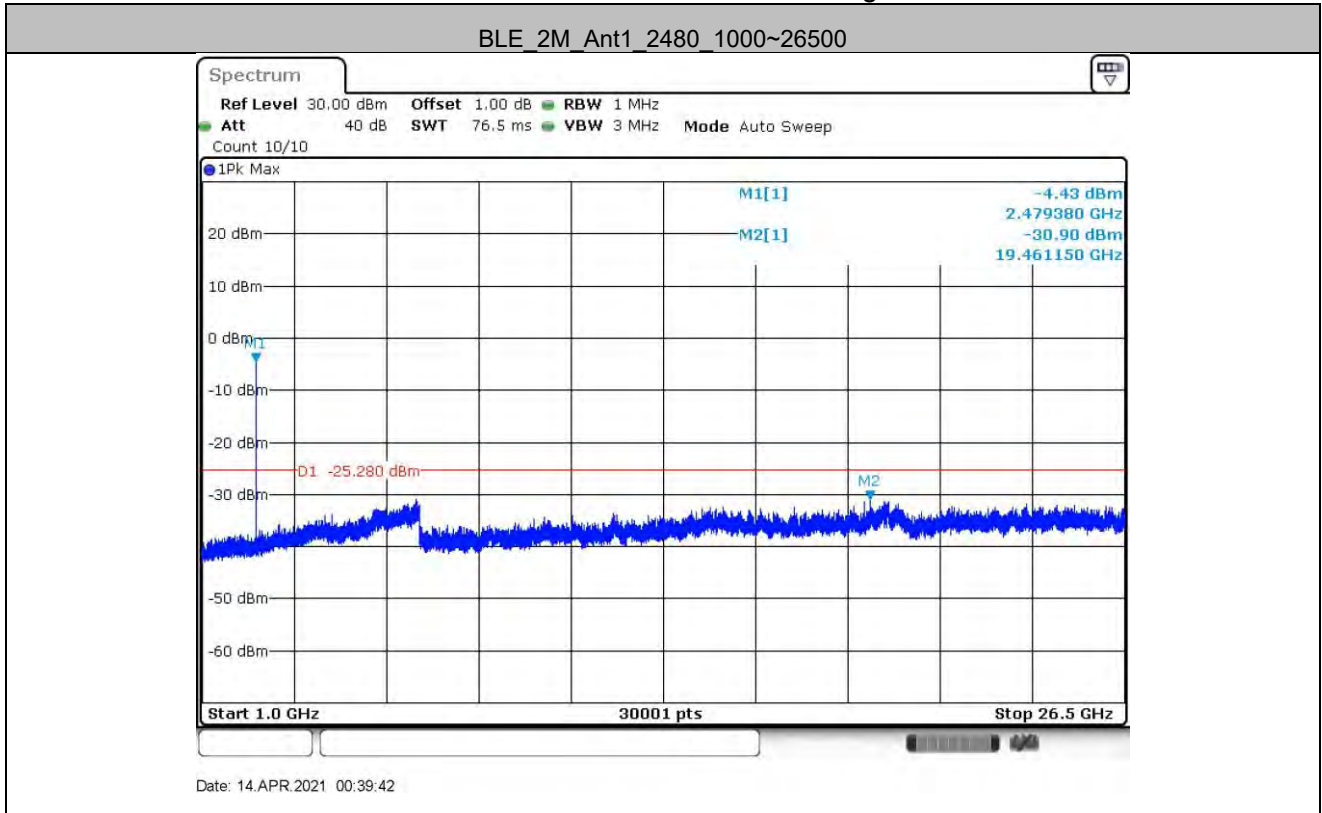
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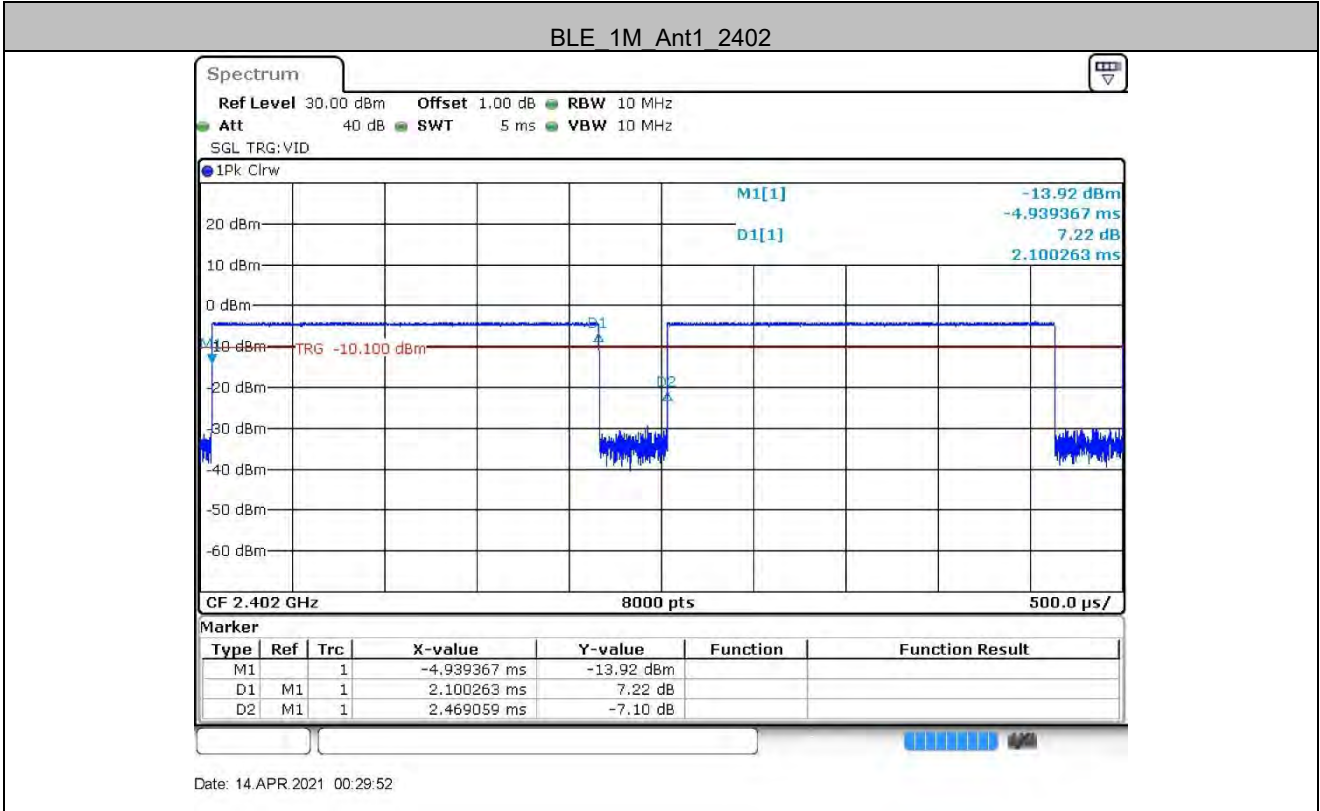
**Duty Cycle**  
**Test Result**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant1	2402	2.10	2.47	85.02	---	PASS
		2440	2.10	2.47	85.02	---	PASS
		2480	2.10	2.47	85.02	---	PASS
BLE_2M	Ant1	2402	1.06	1.59	66.67	---	PASS
		2440	1.06	1.85	57.30	---	PASS
		2480	1.06	1.33	79.70	---	PASS



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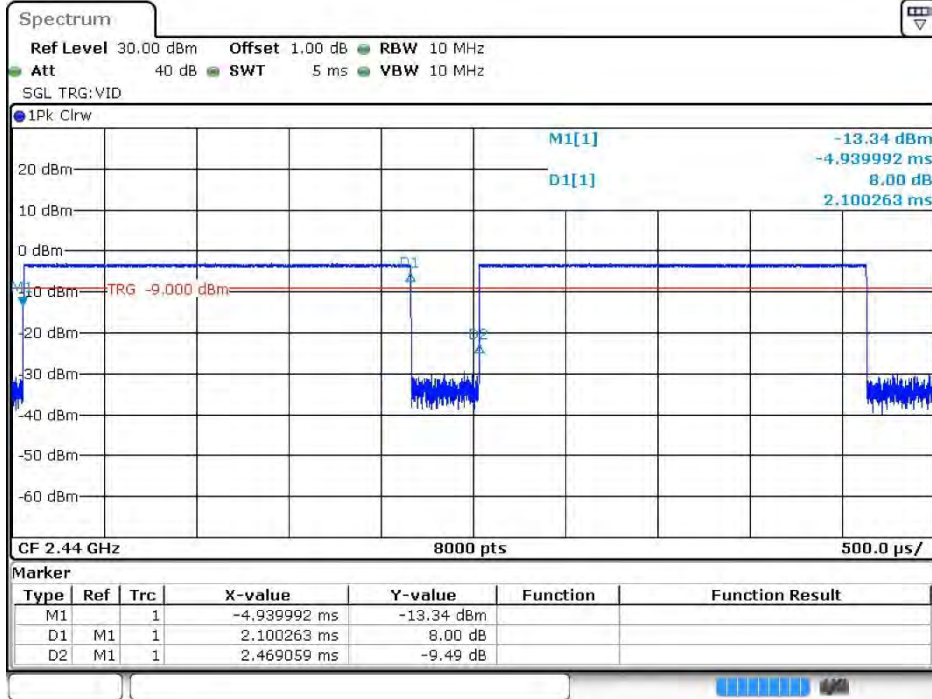
### Test Graphs



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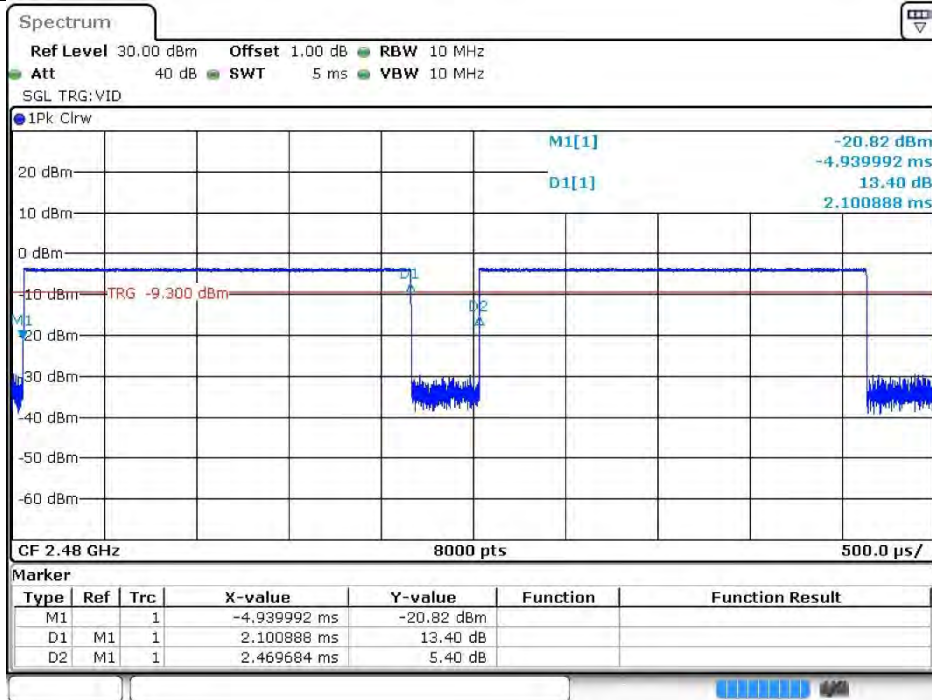


### BLE\_1M\_Ant1\_2440



Date: 14.APR.2021 00:31:49

### BLE\_1M\_Ant1\_2480



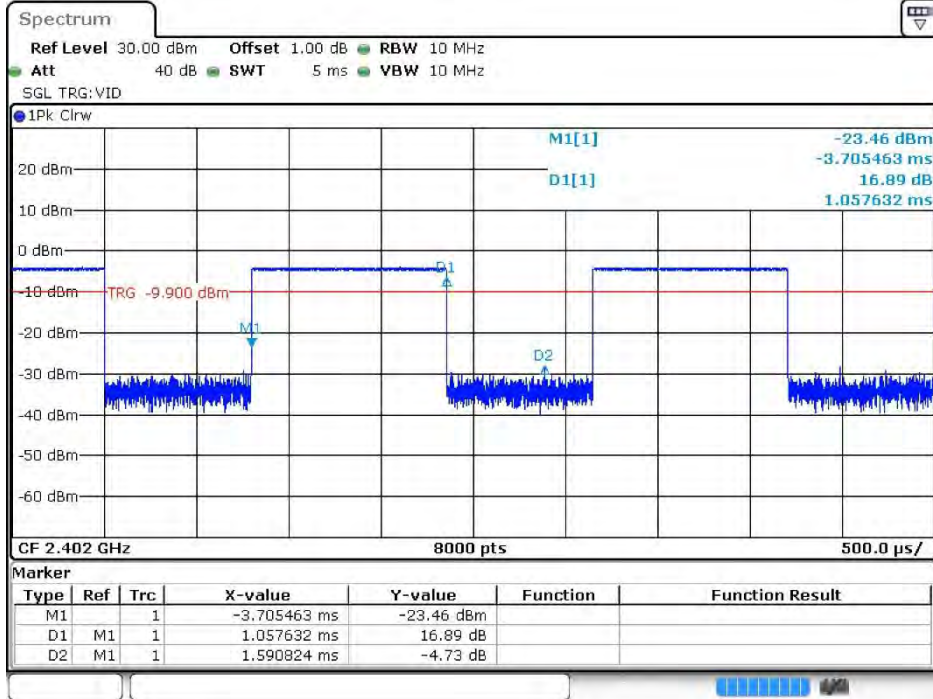
Date: 14.APR.2021 00:33:51



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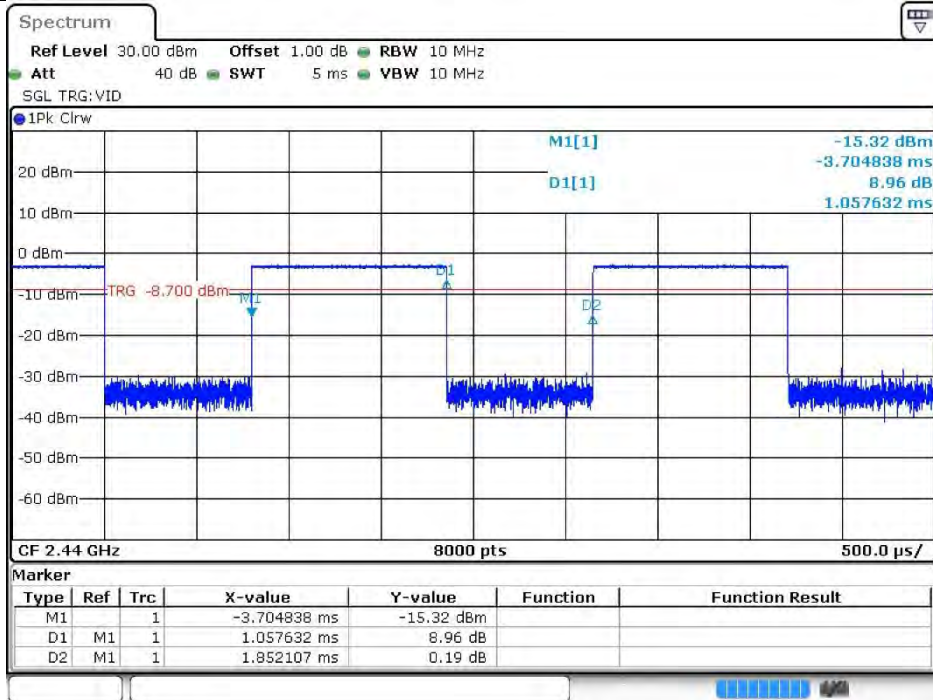


### BLE\_2M\_Ant1\_2402



Date: 14.APR.2021 00:35:36

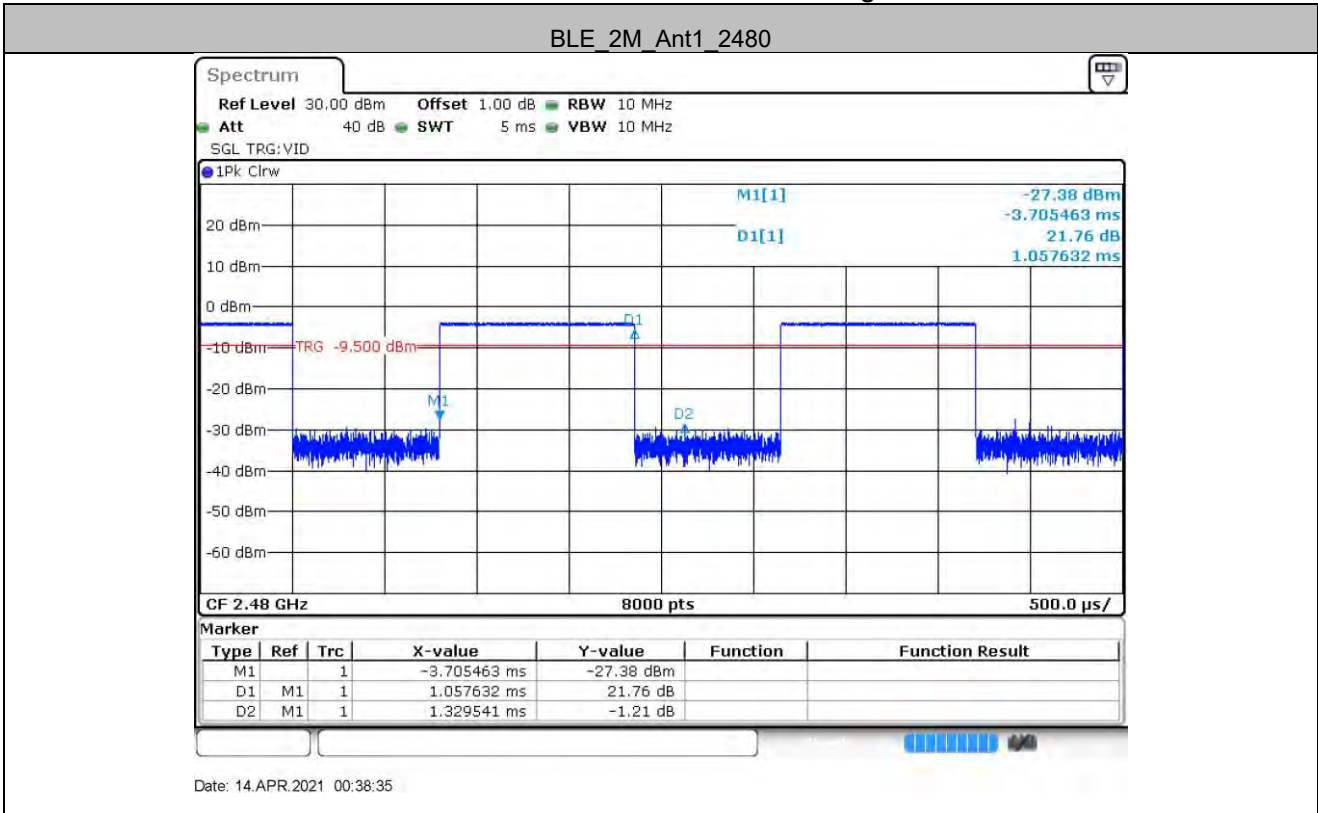
### BLE\_2M\_Ant1\_2440



Date: 14.APR.2021 00:37:09



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The End



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