

Report No.: SEWM2203000022RG05
Rev.: 01
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TEST REPORT

Application No.: SEWM2203000022RG
Applicant: COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
EUT Description: Mobile Phone
Model No.: SL101AE
Trade Mark: Cricket
FCC ID: 2A28USL101AE
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/3/23
Date of Test: 2022/3/31 to 2022/5/23
Date of Issue: 2022/6/27

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Panta Sun
Wireless Laboratory Manager



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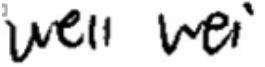
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1 Version

Revision Record

Version	Chapter	Date	Modifier	Remark
01		2022/6/27		Original

Prepared By	 (Weller Liu) / Test Supervisor
Checked By	 (Well Wei) / Reviewer

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Wireless Laboratory

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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS

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3 General Information

3.1 Details of Client

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Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Tizzy Song, Ives Cheng

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

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

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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Designation Number: CN1312.

Test Firm Registration Number: 717327

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3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	SL101AE
Trade Mark:	Cricket
Hardware Version:	1.0
Software Version:	SL101AEC10004
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V5.2
Modulation Type:	GFSK
Number of Channel:	40
Rates Type*:	<input checked="" type="checkbox"/> Provided by client 1M PHY 2M PHY
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client 0.6 dBi(Ant2)
RF Cable*:	<input checked="" type="checkbox"/> Provided by client 1dB

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:

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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

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

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3.5 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.8
LTVN	-10	3.8
HTVN	55	3.8

Remark:
NV: Normal Voltage
NT: Normal Temperature
LT: Low Extreme Test Temperature
HT: High Extreme Test Temperature

3.6 Description of Support Units

The EUT has been tested as an independent unit.

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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
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.
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.
The antenna is integrated and no consideration of replacement. The best case gain of the antenna is 0.6dBi.	



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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 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
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"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ 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. 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. 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. 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. 		

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

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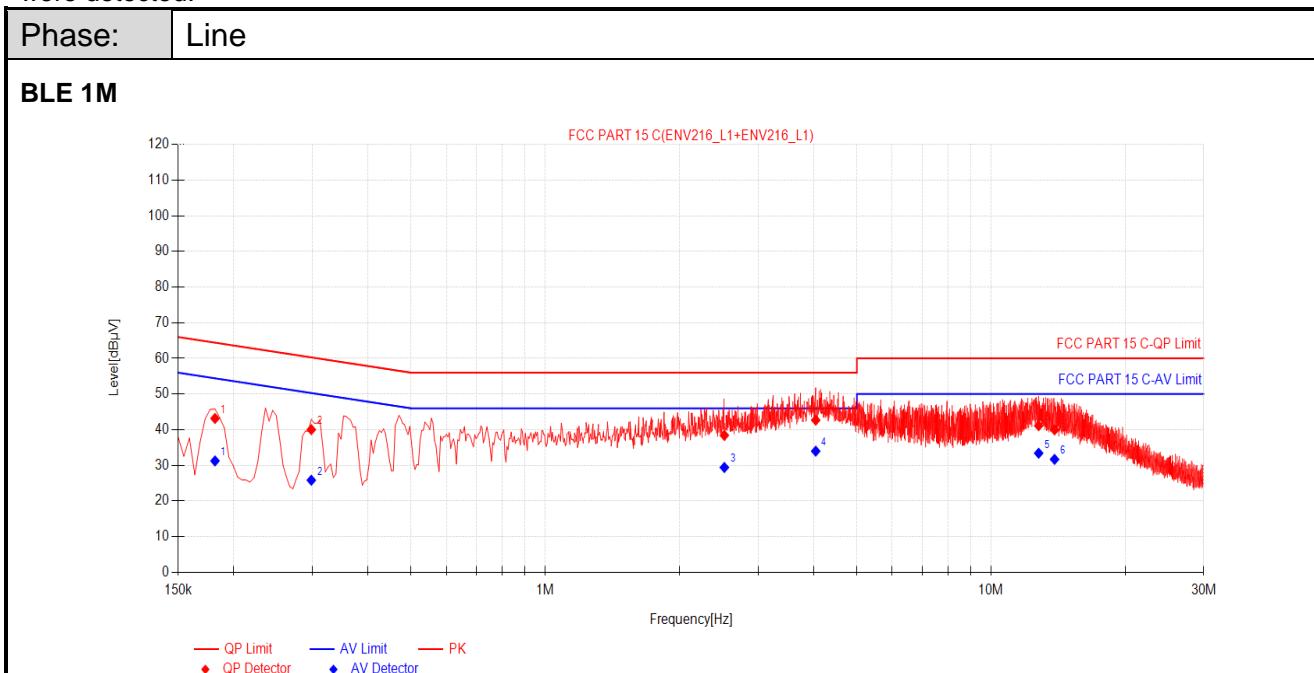
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.1815	10.76	43.15	64.42	21.27	31.25	54.42	23.17	PASS
2	0.2985	10.64	40.02	60.28	20.26	25.83	50.28	24.45	PASS
3	2.5215	10.66	38.42	56.00	17.58	29.41	46.00	16.59	PASS
4	4.0425	10.74	42.68	56.00	13.32	33.98	46.00	12.02	PASS
5	12.7905	10.57	41.11	60.00	18.89	33.40	50.00	16.60	PASS
6	13.8840	10.54	39.97	60.00	20.03	31.69	50.00	18.31	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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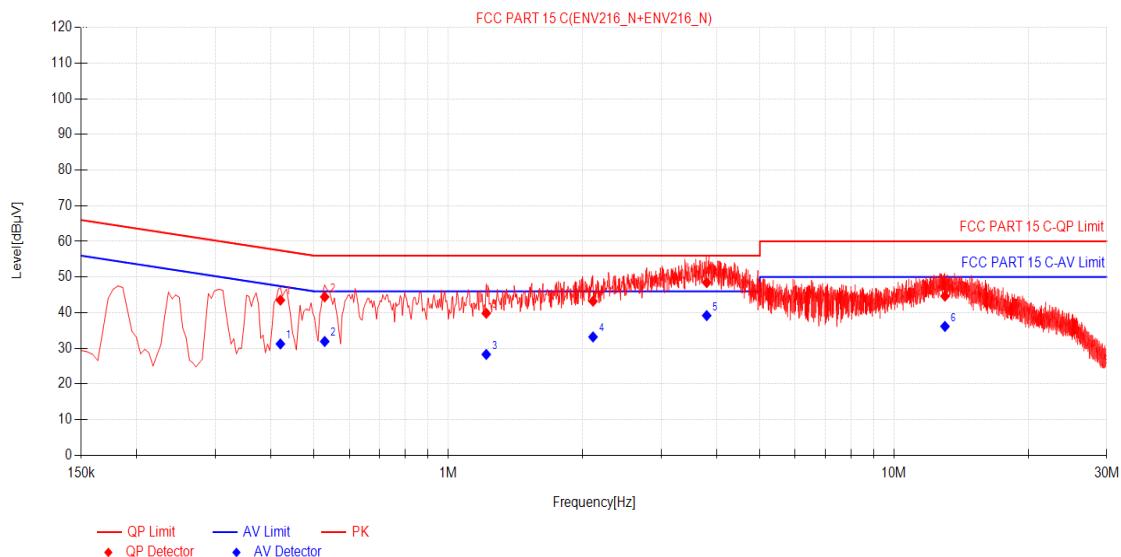
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Phase:	Neutral
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BLE 1M

Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.4200	10.82	43.52	57.45	13.93	31.25	47.45	16.20	PASS
2	0.5280	10.78	44.43	56.00	11.57	31.93	46.00	14.07	PASS
3	1.2165	10.78	39.84	56.00	16.16	28.30	46.00	17.70	PASS
4	2.1120	10.77	43.23	56.00	12.77	33.20	46.00	12.80	PASS
5	3.7995	10.72	48.45	56.00	7.55	39.19	46.00	6.81	PASS
6	13.0110	10.62	44.65	60.00	15.35	36.15	50.00	13.85	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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Phase:	Line																																																																						
BLE 2M																																																																							
<p>Final Data List</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>Frequency [MHz]</th> <th>Factor [dB]</th> <th>QP Value [dBuV]</th> <th>QP Limit [dBuV]</th> <th>QP Margin [dB]</th> <th>AV Value [dBuV]</th> <th>AV Limit [dBuV]</th> <th>AV Margin [dB]</th> <th>Verdict</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.2355</td> <td>10.81</td> <td>43.09</td> <td>62.25</td> <td>19.16</td> <td>31.11</td> <td>52.25</td> <td>21.14</td> <td>PASS</td> </tr> <tr> <td>2</td> <td>0.5235</td> <td>10.59</td> <td>39.82</td> <td>56.00</td> <td>16.18</td> <td>30.61</td> <td>46.00</td> <td>15.39</td> <td>PASS</td> </tr> <tr> <td>3</td> <td>1.9140</td> <td>10.70</td> <td>37.20</td> <td>56.00</td> <td>18.80</td> <td>29.01</td> <td>46.00</td> <td>16.99</td> <td>PASS</td> </tr> <tr> <td>4</td> <td>3.8715</td> <td>10.73</td> <td>42.67</td> <td>56.00</td> <td>13.33</td> <td>34.14</td> <td>46.00</td> <td>11.86</td> <td>PASS</td> </tr> <tr> <td>5</td> <td>7.5165</td> <td>10.69</td> <td>38.30</td> <td>60.00</td> <td>21.70</td> <td>27.33</td> <td>50.00</td> <td>22.67</td> <td>PASS</td> </tr> <tr> <td>6</td> <td>12.5295</td> <td>10.57</td> <td>41.99</td> <td>60.00</td> <td>18.01</td> <td>34.27</td> <td>50.00</td> <td>15.73</td> <td>PASS</td> </tr> </tbody> </table>		NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict	1	0.2355	10.81	43.09	62.25	19.16	31.11	52.25	21.14	PASS	2	0.5235	10.59	39.82	56.00	16.18	30.61	46.00	15.39	PASS	3	1.9140	10.70	37.20	56.00	18.80	29.01	46.00	16.99	PASS	4	3.8715	10.73	42.67	56.00	13.33	34.14	46.00	11.86	PASS	5	7.5165	10.69	38.30	60.00	21.70	27.33	50.00	22.67	PASS	6	12.5295	10.57	41.99	60.00	18.01	34.27	50.00	15.73	PASS
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict																																																														
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2	0.5235	10.59	39.82	56.00	16.18	30.61	46.00	15.39	PASS																																																														
3	1.9140	10.70	37.20	56.00	18.80	29.01	46.00	16.99	PASS																																																														
4	3.8715	10.73	42.67	56.00	13.33	34.14	46.00	11.86	PASS																																																														
5	7.5165	10.69	38.30	60.00	21.70	27.33	50.00	22.67	PASS																																																														
6	12.5295	10.57	41.99	60.00	18.01	34.27	50.00	15.73	PASS																																																														

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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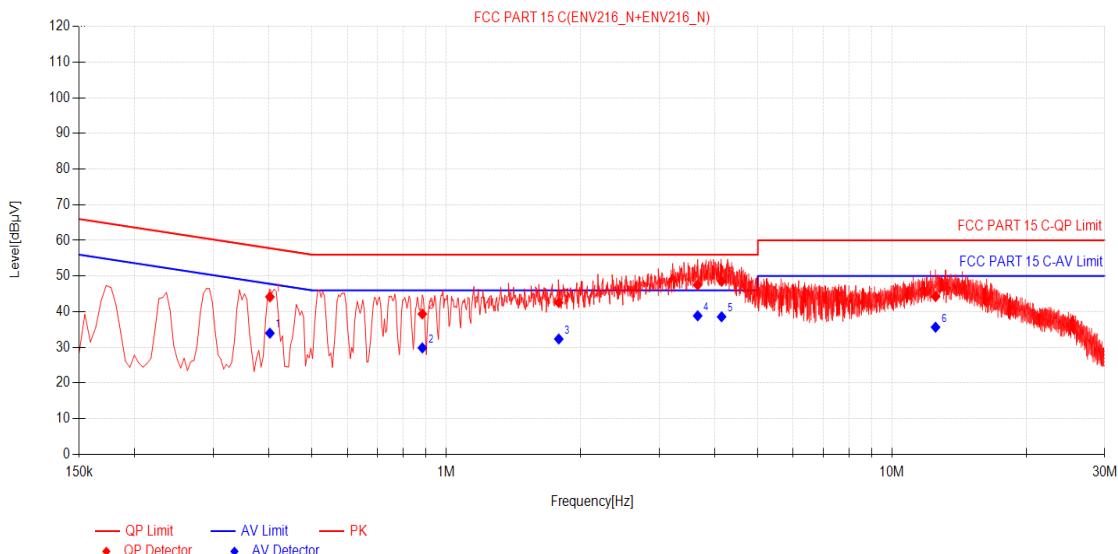
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Phase:	Neutral
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BLE 2M

Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.4020	10.83	44.16	57.81	13.65	33.98	47.81	13.83	PASS
2	0.8835	10.77	39.36	56.00	16.64	29.84	46.00	16.16	PASS
3	1.7880	10.78	42.57	56.00	13.43	32.34	46.00	13.66	PASS
4	3.6645	10.69	47.50	56.00	8.50	38.85	46.00	7.15	PASS
5	4.1460	10.73	48.55	56.00	7.45	38.58	46.00	7.42	PASS
6	12.5205	10.63	44.25	60.00	15.75	35.65	50.00	14.35	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Reading + Factor(Lisn factor + cable loss).



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4.3 Duty Cycle

The detailed test data see: **Appendix**

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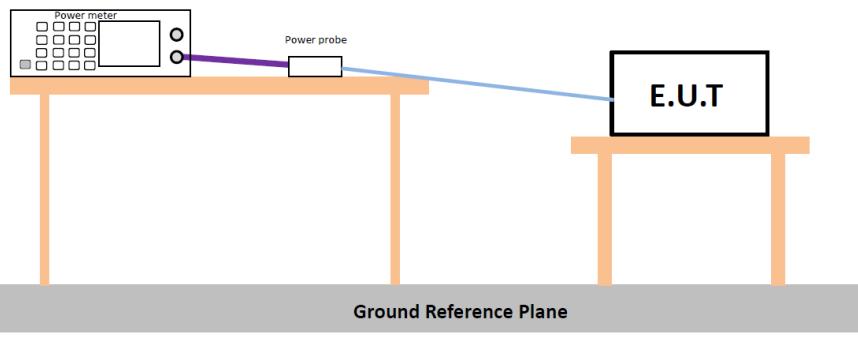
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
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**

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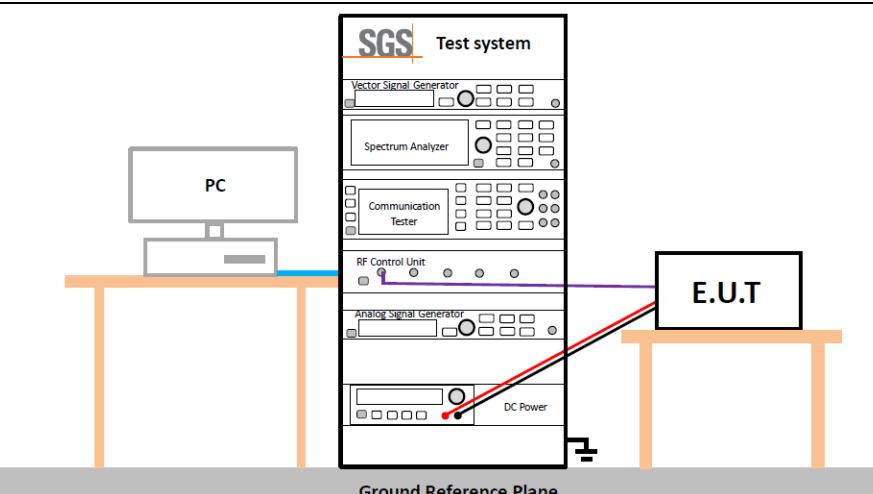
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	 <p>The diagram illustrates the test setup. A PC is connected to a 'Test system' which includes a Vector Signal Generator, Spectrum Analyzer, Communication Tester, RF Control Unit, Analog Signal Generator, and a DC Power source. The test system is connected to an 'E.U.T' (Equipment Under Test). The entire setup is placed on a table, with a 'Ground Reference Plane' indicated by a grey area underneath the table legs.</p>
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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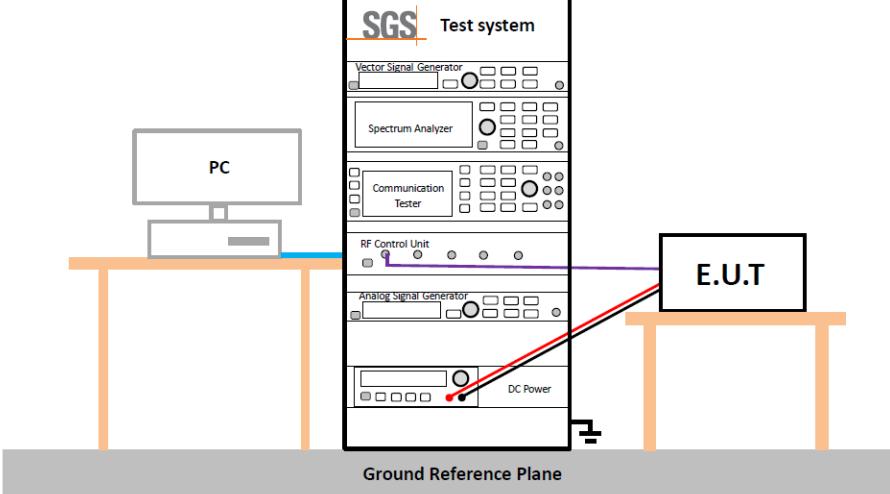
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4.6 Power Spectral Density

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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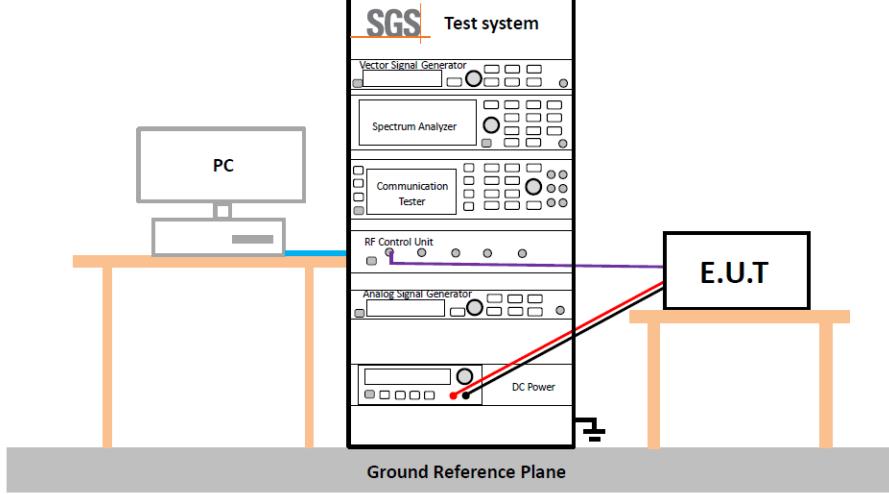
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 Wireless Laboratory

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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 11.11
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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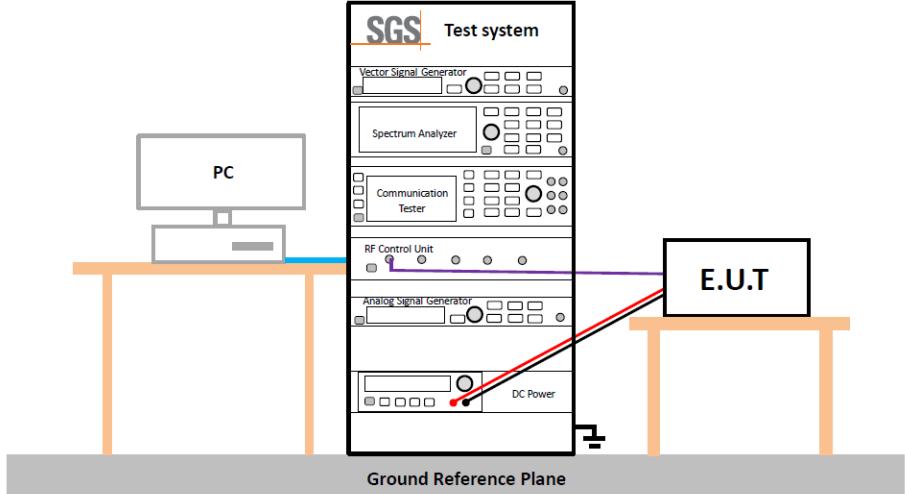
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4.8 RF Conducted Spurious Emissions

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)				
Test Frequency:	9kHz ~ 25GHz				
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.					

Test Setup:

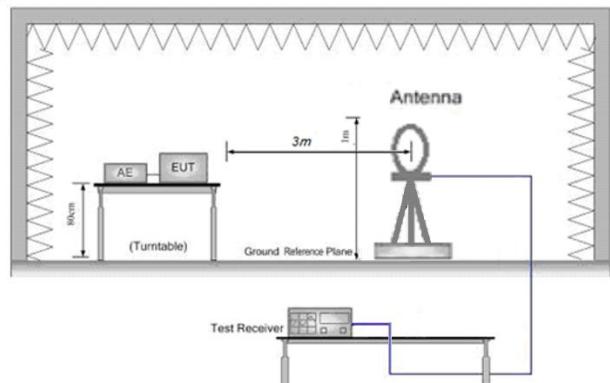


Figure 1. Below 30MHz

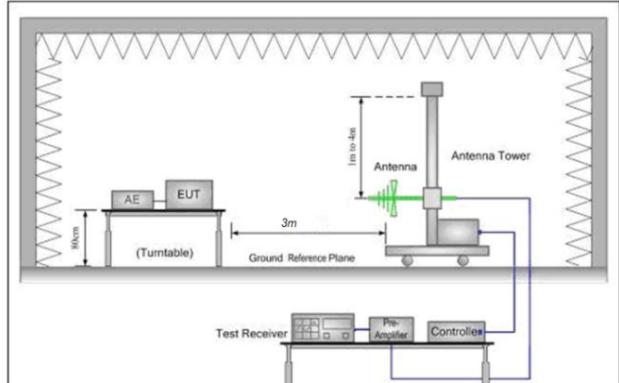


Figure 2. 30MHz to 1GHz

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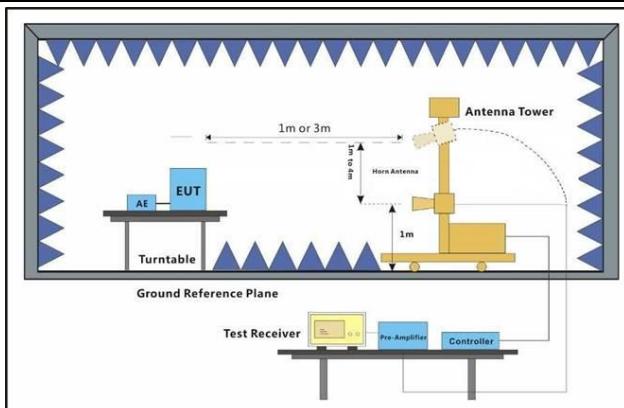


Figure 3. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz). The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Test the EUT in the lowest channel, the middle channel ,the Highest channel. 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. Repeat above procedures until all frequencies measured was complete. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. At a measurement distance of 1 meter the limit line was increased by $20 \times \log(3/1) = 9.54$ dB.
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold

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	<p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq [3 *RBW]• Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.• Sweep time = auto• Perform a trace average of at least 100 traces. <p>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</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
The detailed test data see: Appendix	

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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:

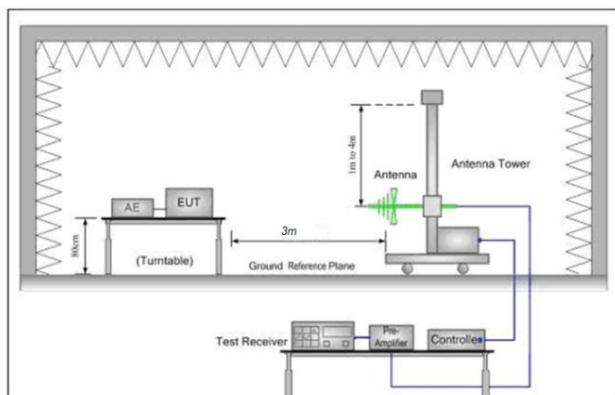


Figure 1. 30MHz to 1GHz

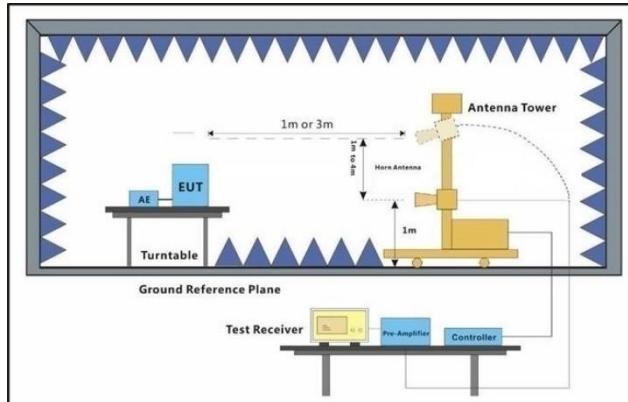


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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
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	<p>bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none">• RBW = 120 kHz• VBW = 300 kHz• Detector = Peak• Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none">• RBW = 1 MHz• VBW \geq [3 *RBW]• Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.• Sweep time = auto• Perform a trace average of at least 100 traces. <p>Value = Reading + Factor(Antenna Factor + Cable loss).</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. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1.0%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.55	SUWI-02-09-09	NCR	NCR
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/2/16	2023/2/15

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9*6*6 Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant 2	2402	0.69	2401.65	2402.34	≥0.5	PASS
		2440	0.69	2439.65	2440.34	≥0.5	PASS
		2480	0.69	2479.65	2480.34	≥0.5	PASS
BLE_2M	Ant 2	2402	1.18	2401.41	2402.59	≥0.5	PASS
		2440	1.18	2439.41	2440.59	≥0.5	PASS
		2480	1.18	2479.41	2480.59	≥0.5	PASS



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Test Graphs



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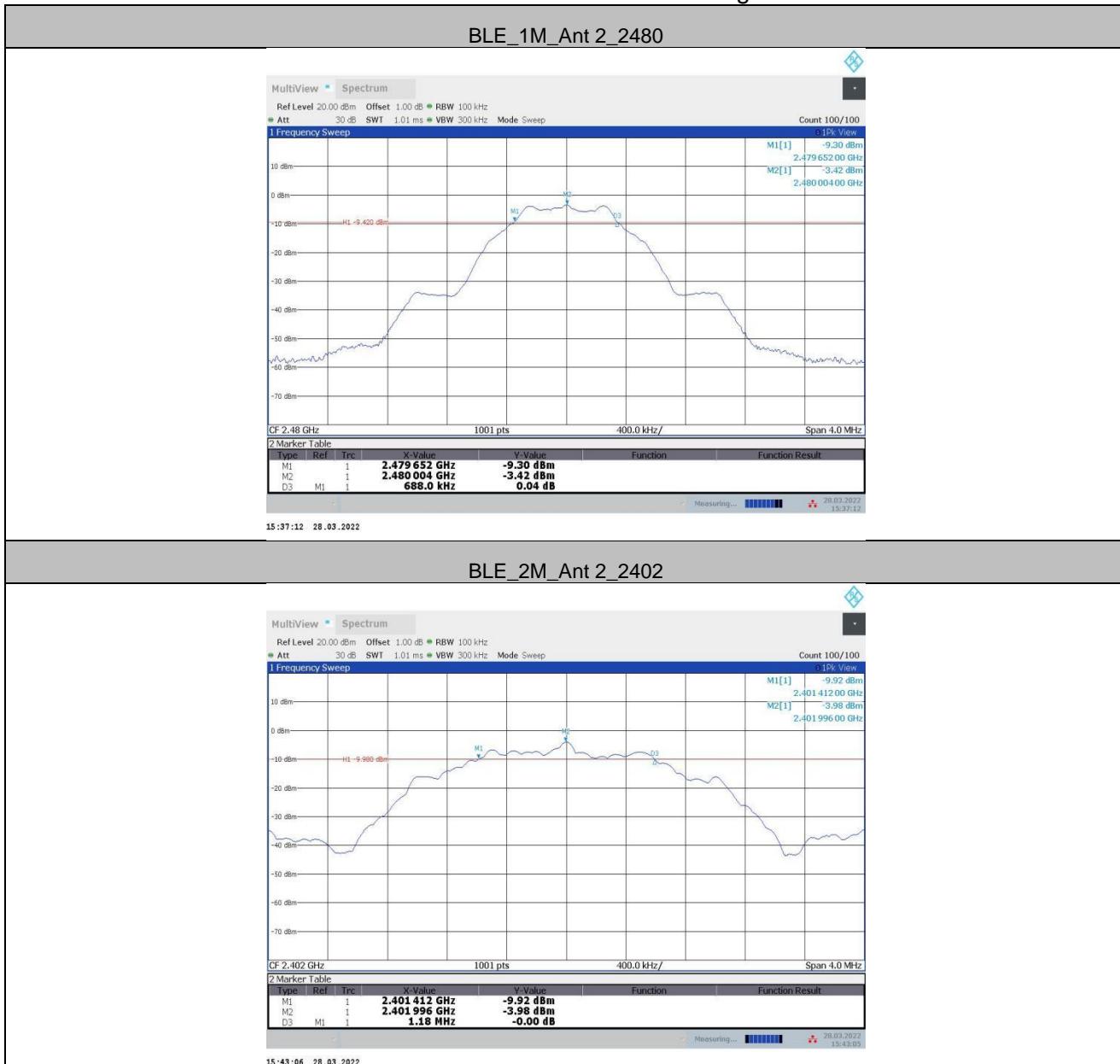


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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant 2	2402	1.037	2401.487	2402.524	---	---
		2440	1.037	2439.486	2440.524	---	---
		2480	1.037	2479.486	2480.523	---	---
BLE_2M	Ant 2	2402	2.065	2400.978	2403.043	---	---
		2440	2.064	2438.978	2441.041	---	---
		2480	2.063	2478.977	2481.039	---	---

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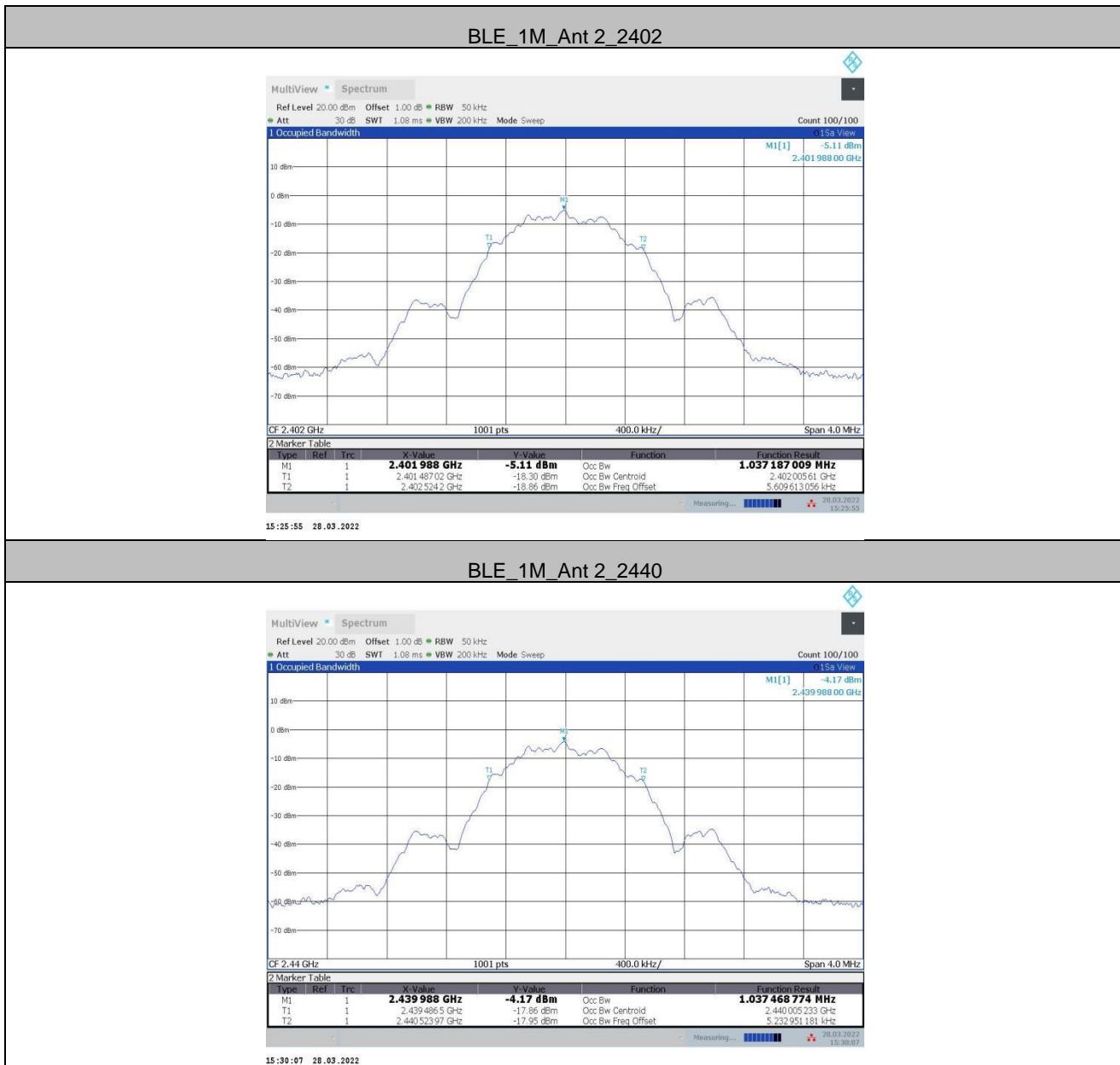
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Test Graphs



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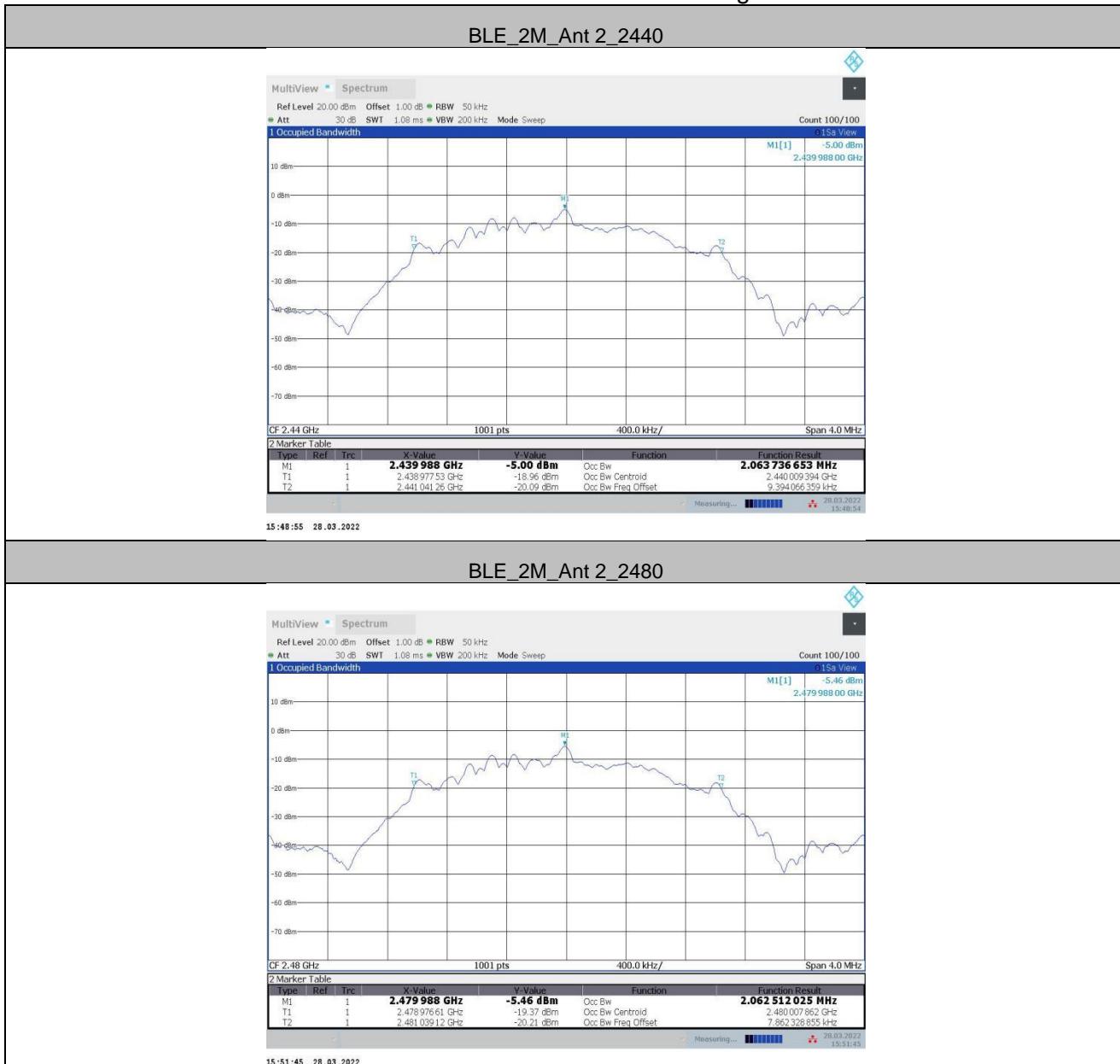
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Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant 2	2402	-2.77	≤30	PASS
		2440	-2.04	≤30	PASS
		2480	-2.47	≤30	PASS
BLE_2M	Ant 2	2402	-2.75	≤30	PASS
		2440	-2.03	≤30	PASS
		2480	-2.44	≤30	PASS

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Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant 2	2402	-18.36	≤8.00	PASS
		2440	-17.44	≤8.00	PASS
		2480	-17.87	≤8.00	PASS
BLE_2M	Ant 2	2402	-20.87	≤8.00	PASS
		2440	-19.99	≤8.00	PASS
		2480	-20.42	≤8.00	PASS

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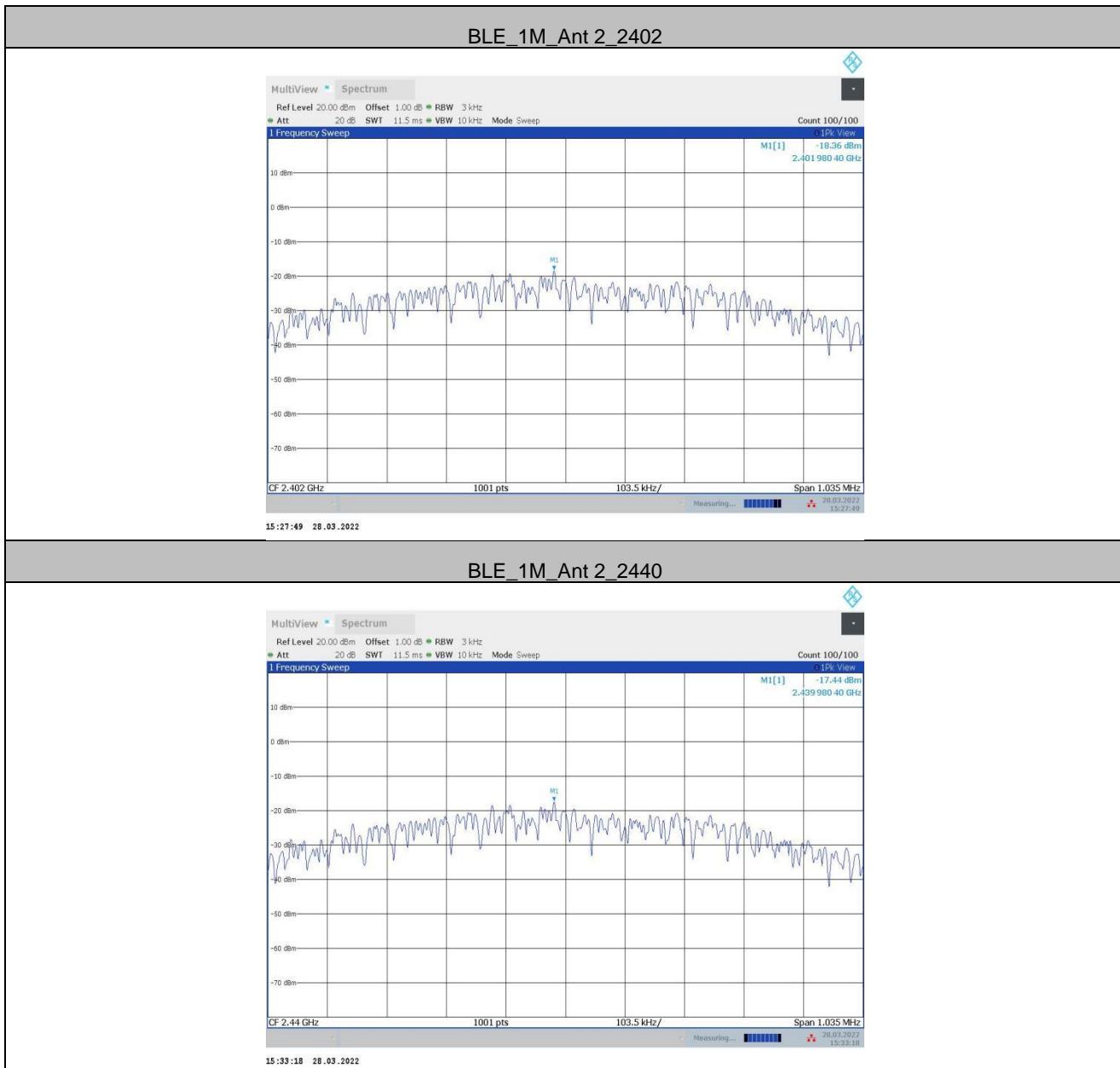
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Test Graphs



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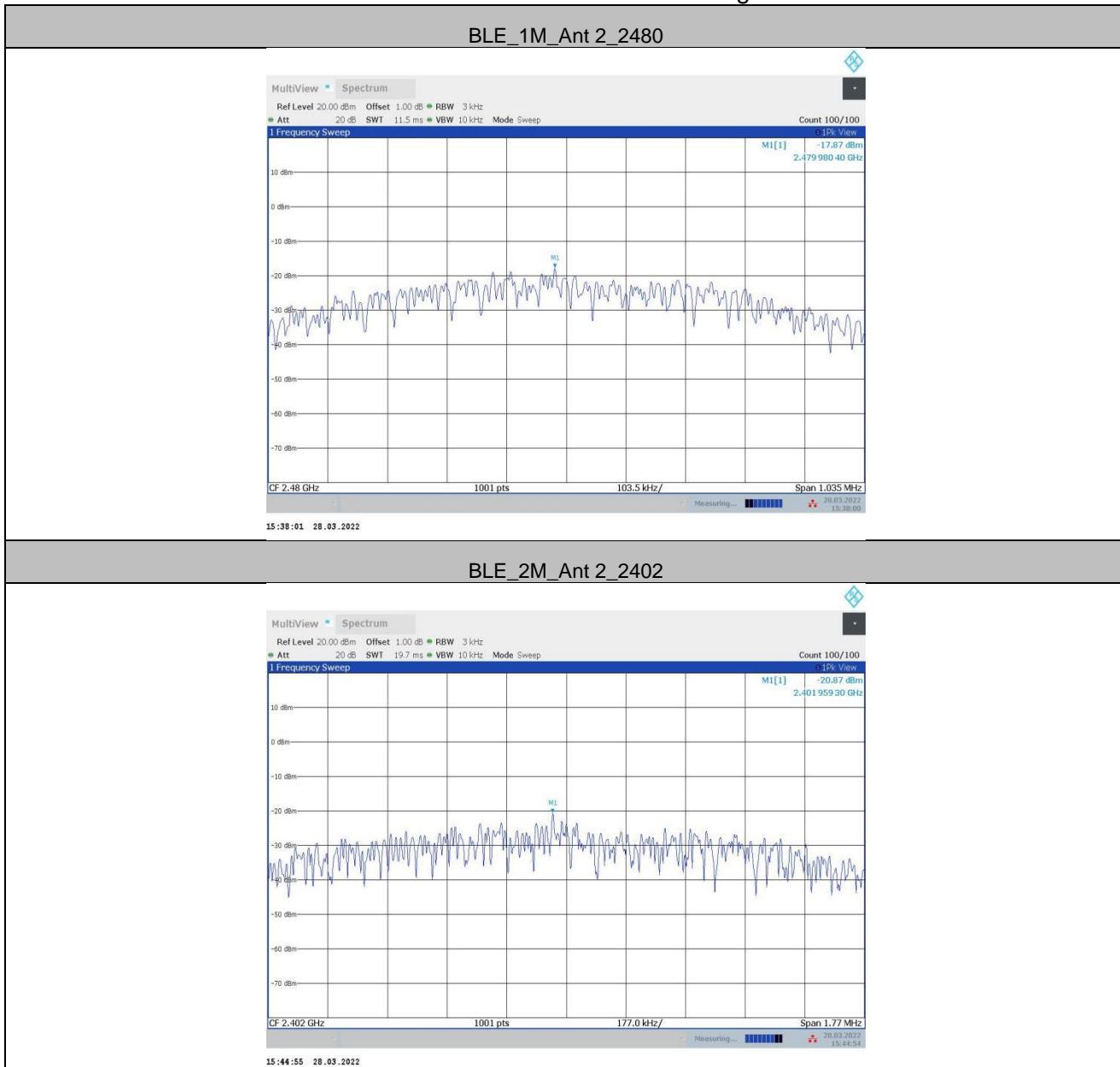


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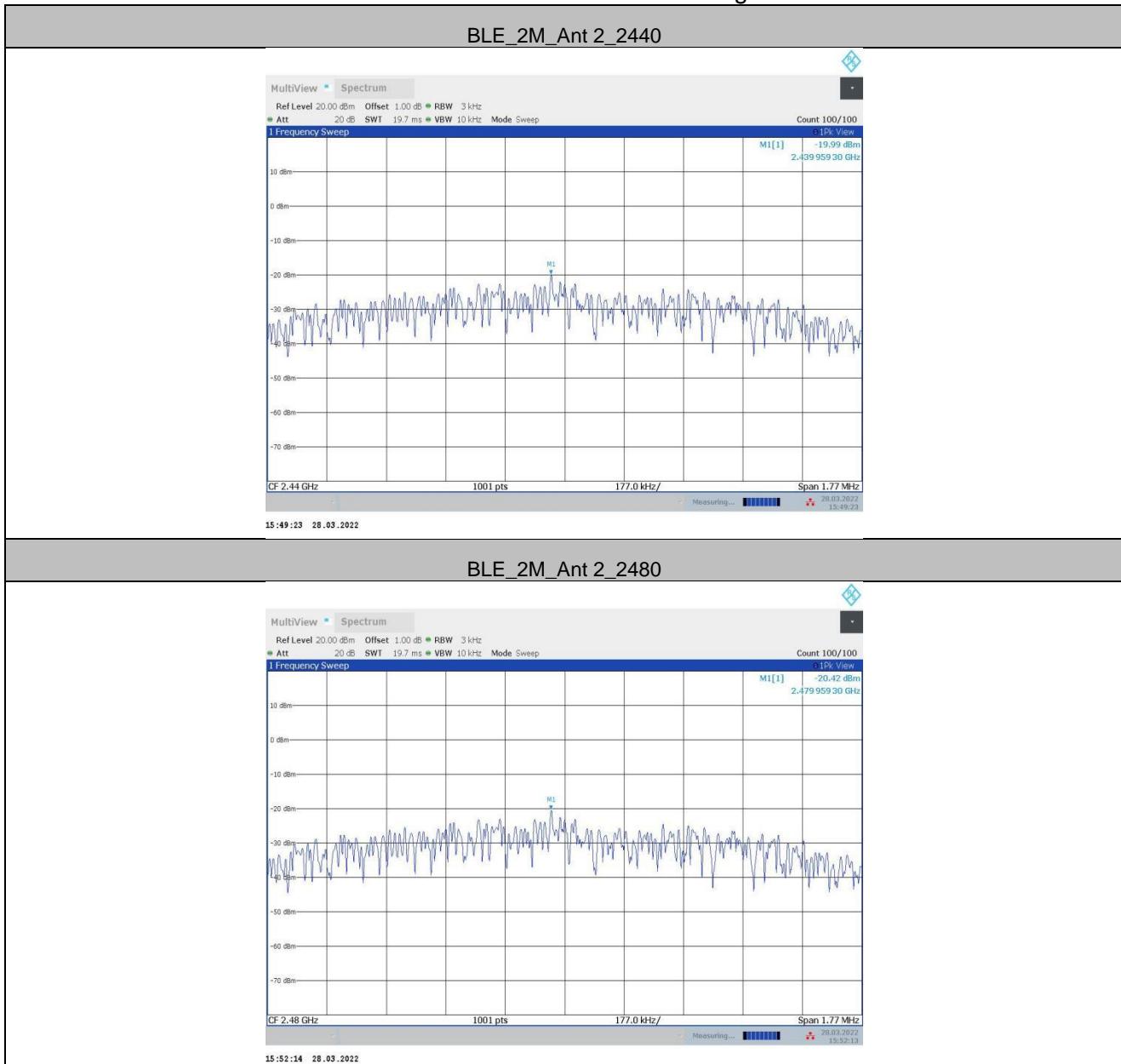


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Band edge measurements

Test Graphs



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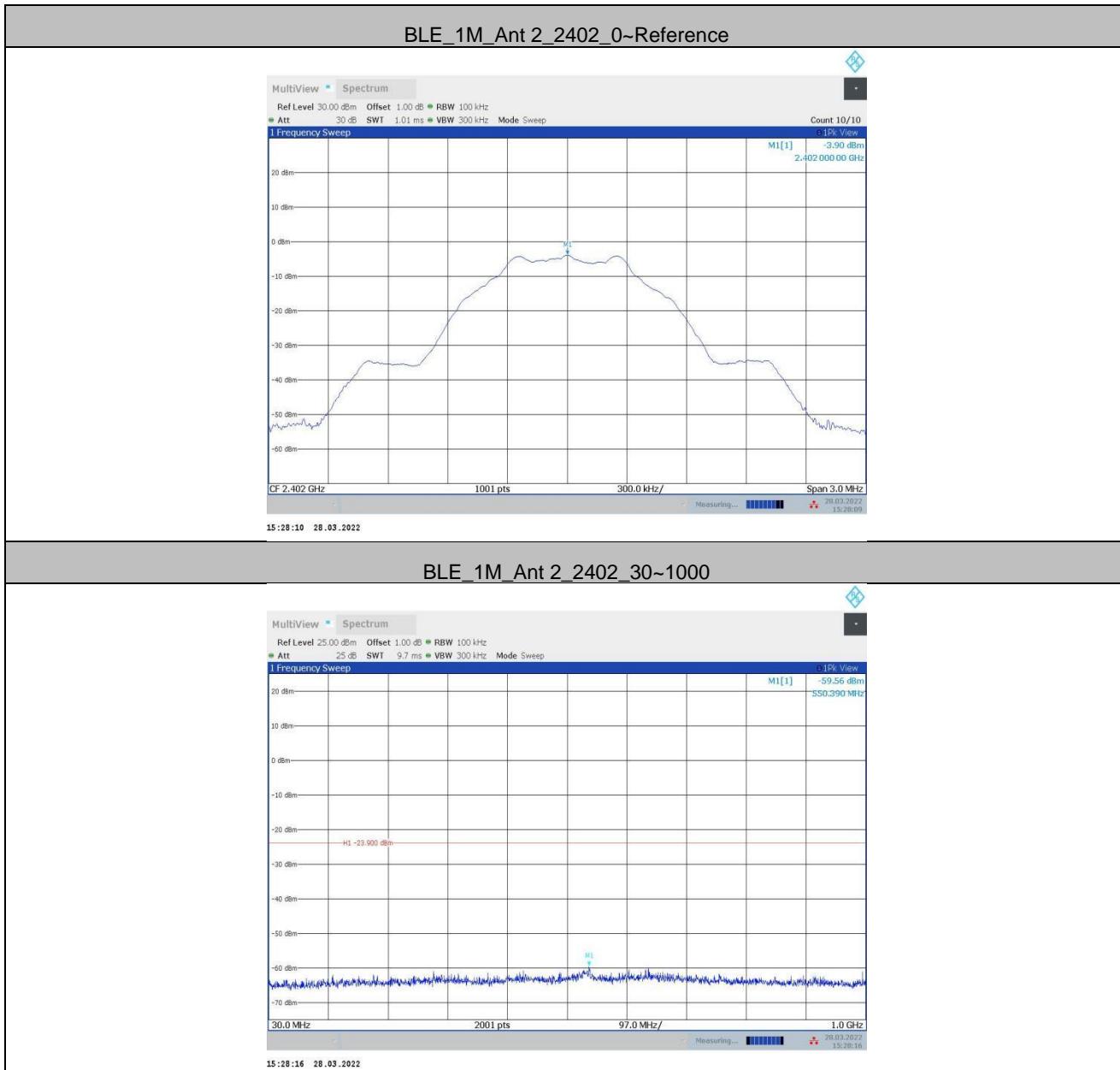
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Conducted Spurious Emission Test Graphs



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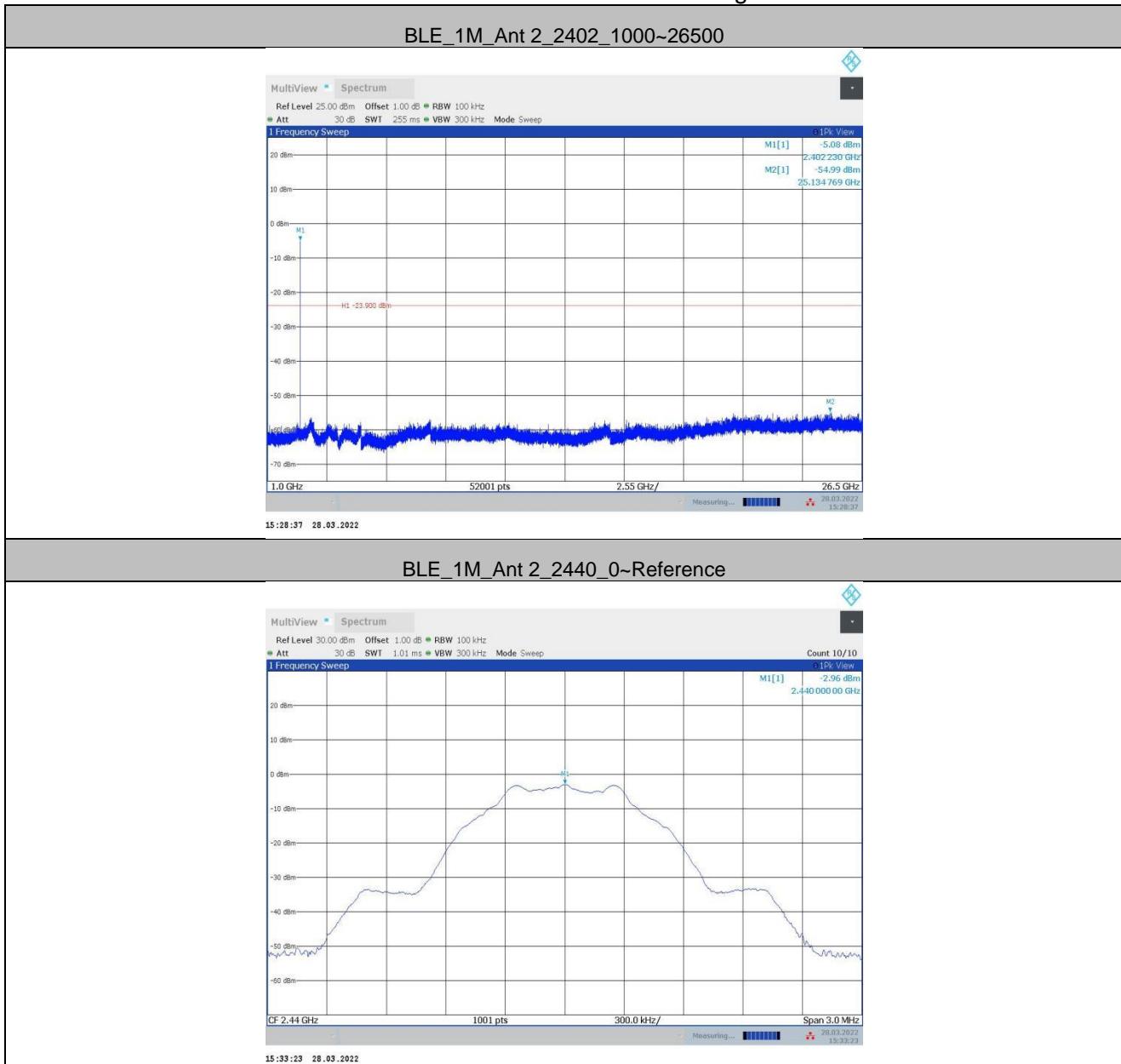


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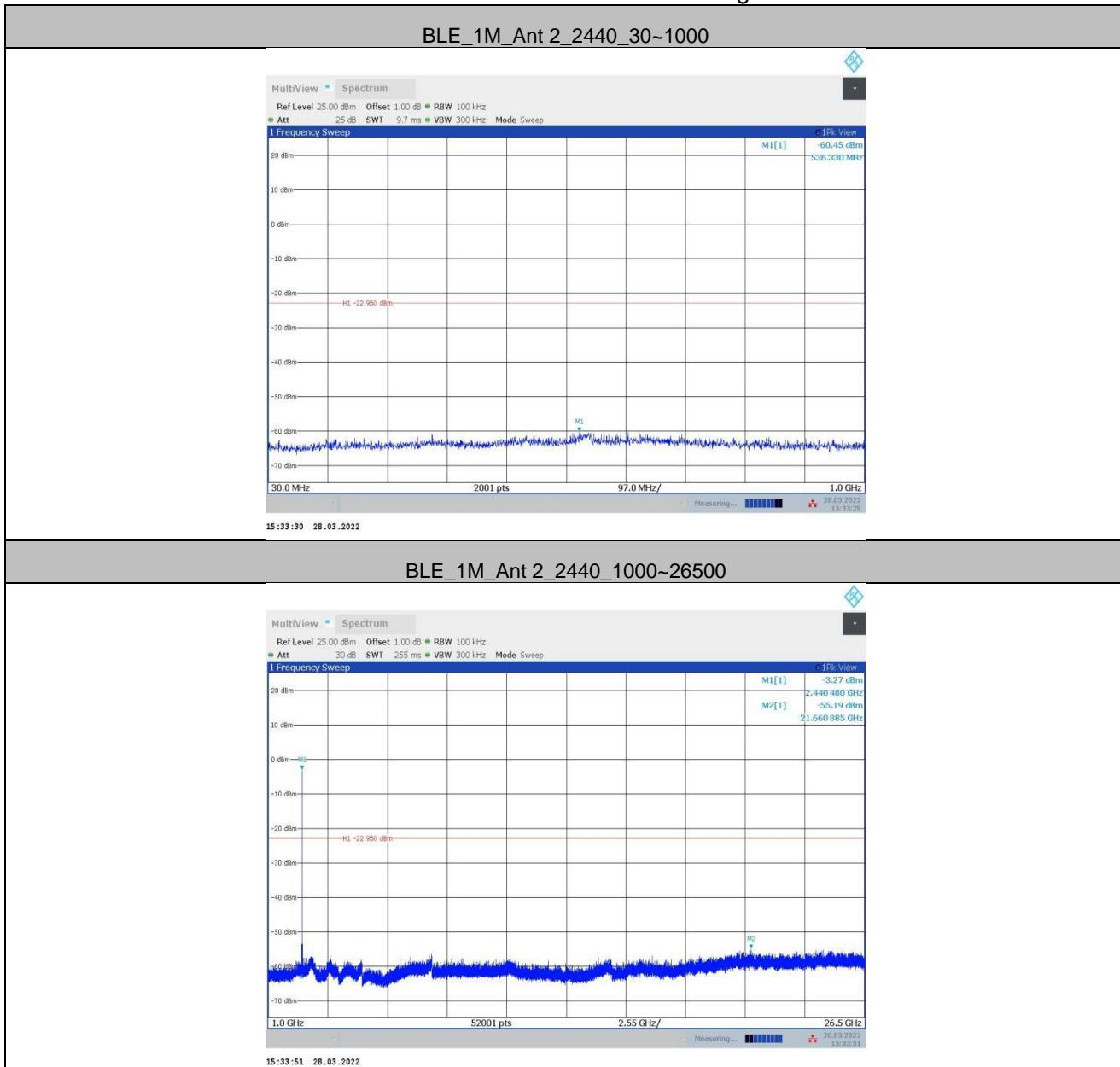


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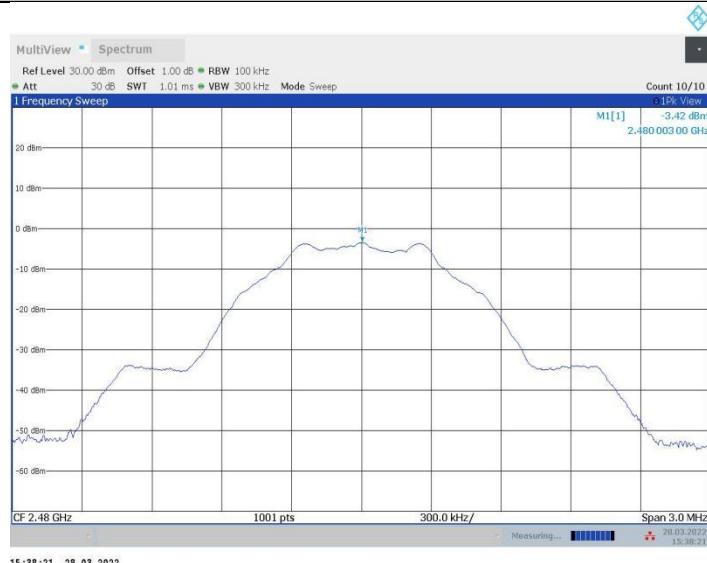
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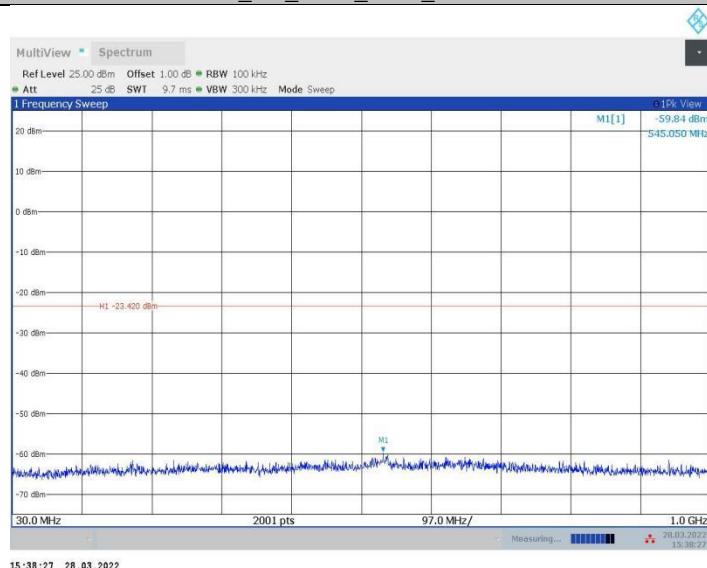
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BLE_1M_Ant 2_2480_0~Reference



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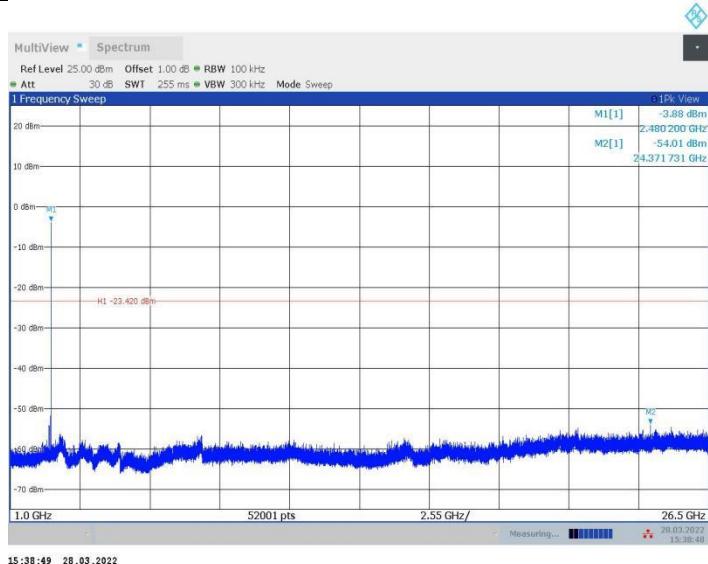
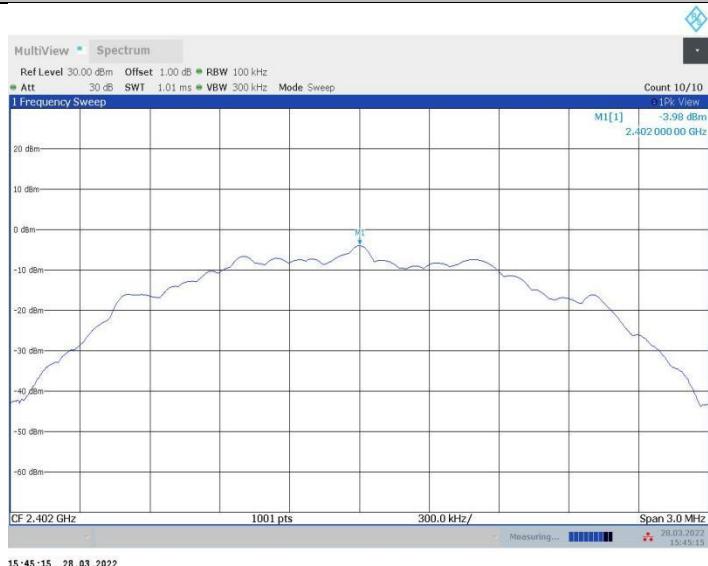
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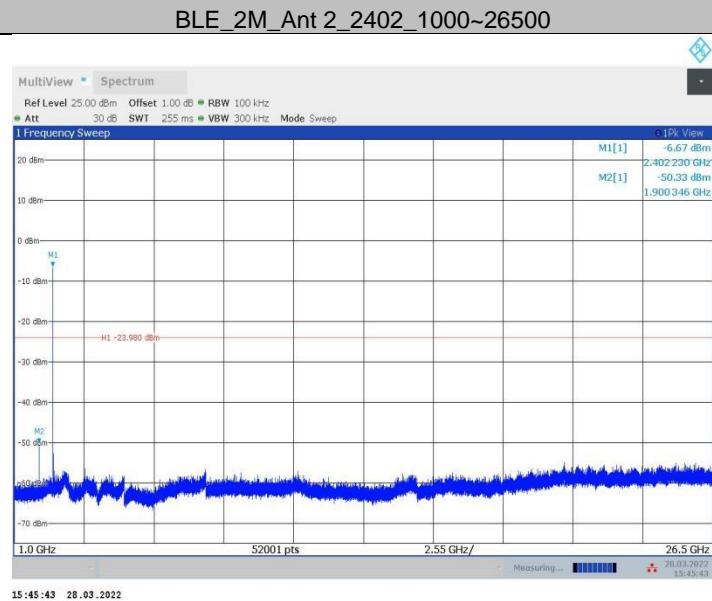
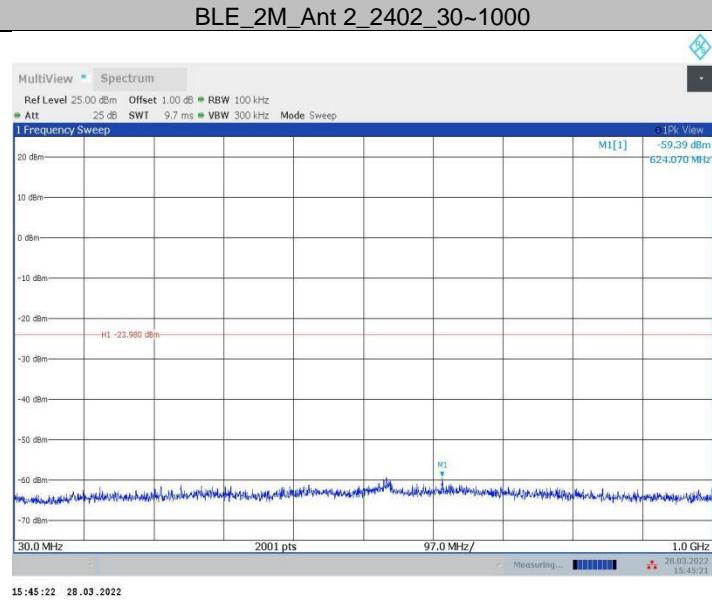


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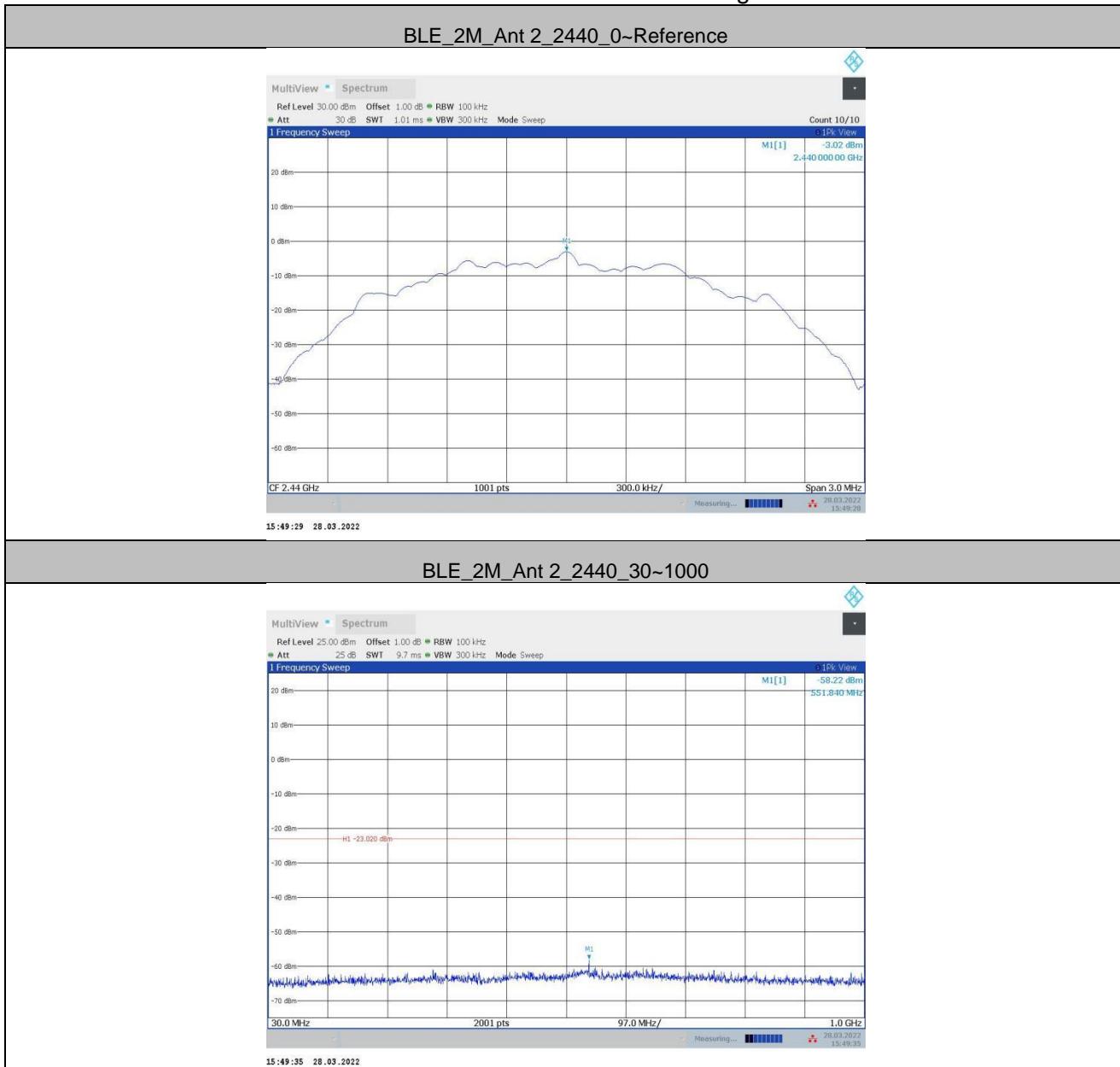


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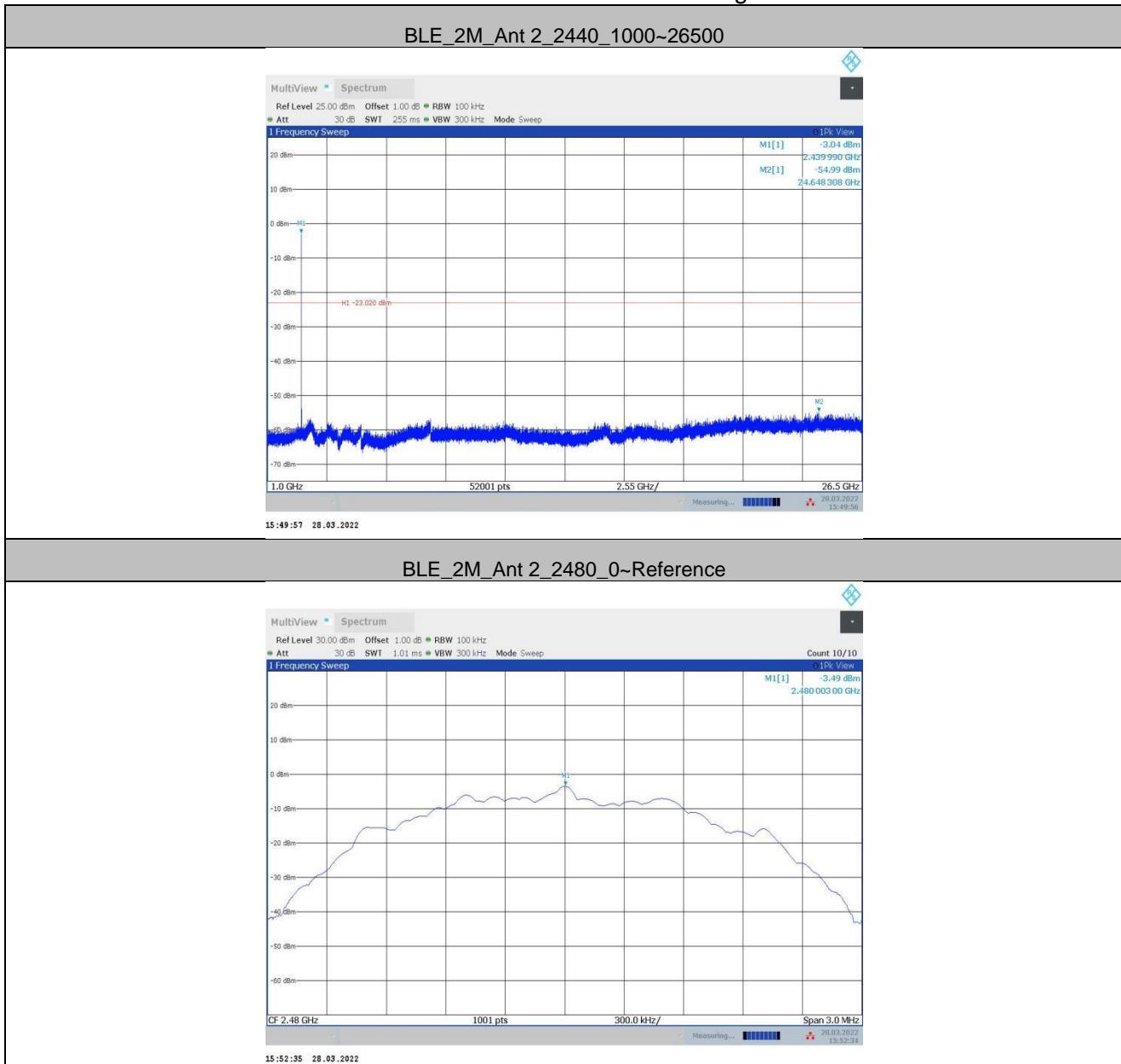


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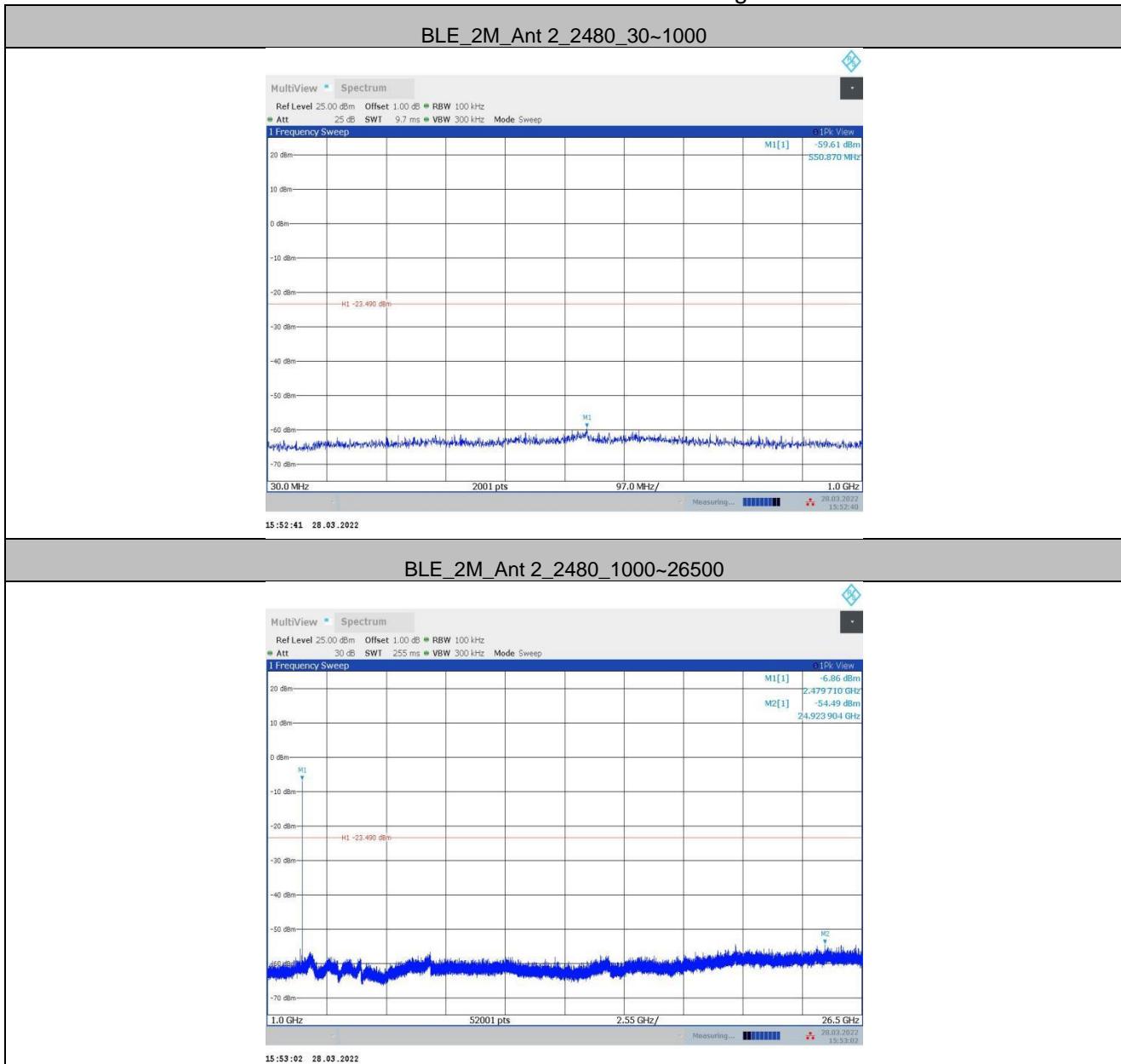


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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant 2	2402	0.39	0.64	60.94	2.15
BLE_2M	Ant 2	2402	0.20	0.63	31.75	4.98

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Test Graphs



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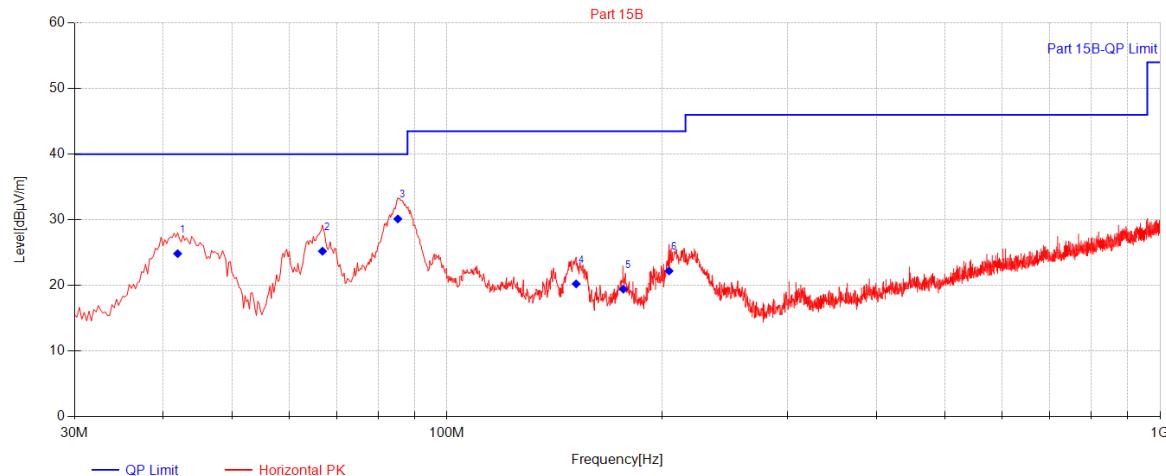
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode:

BLE 1M_LF



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.8825	47.16	-22.33	24.83	40.00	15.17	215	141	Horizontal
2	66.86	50.26	-25.06	25.20	40.00	14.80	125	244	Horizontal
3	85.29	56.81	-26.68	30.13	40.00	9.87	163	175	Horizontal
4	151.735	41.59	-21.37	20.22	43.50	23.28	148	248	Horizontal
5	176.7125	40.03	-20.61	19.42	43.50	24.08	194	0	Horizontal
6	204.8425	47.22	-25.03	22.19	43.50	21.31	170	236	Horizontal

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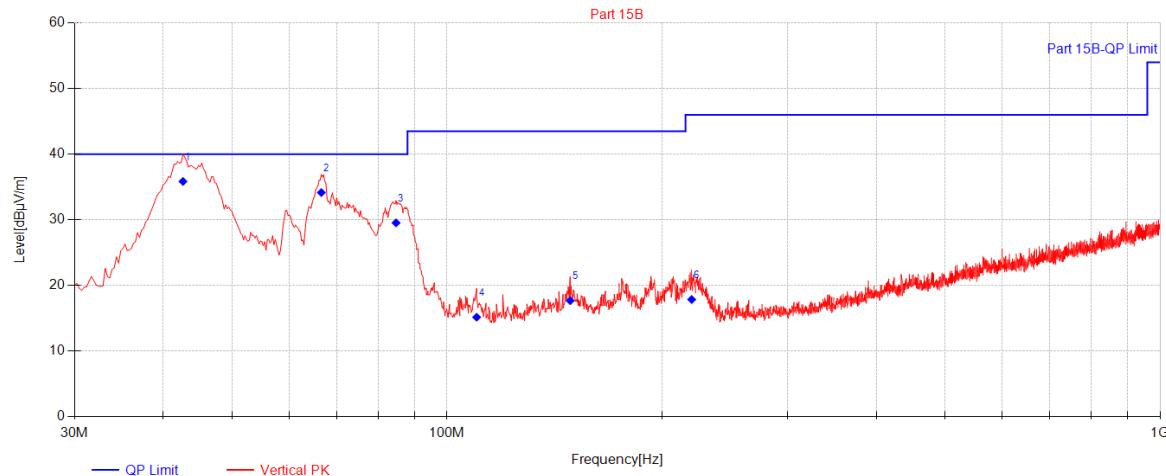
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BLE 1M_LF



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.61	58.23	-22.39	35.84	40.00	4.16	215	237	Vertical
2	66.6175	59.16	-25.01	34.15	40.00	5.85	236	237	Vertical
3	84.805	56.18	-26.65	29.53	40.00	10.47	258	244	Vertical
4	110.025	40.16	-25.02	15.14	43.50	28.36	174	334	Vertical
5	148.825	39.15	-21.48	17.67	43.50	25.83	191	10	Vertical
6	220.3625	42.13	-24.29	17.84	46.00	28.16	100	277	Vertical

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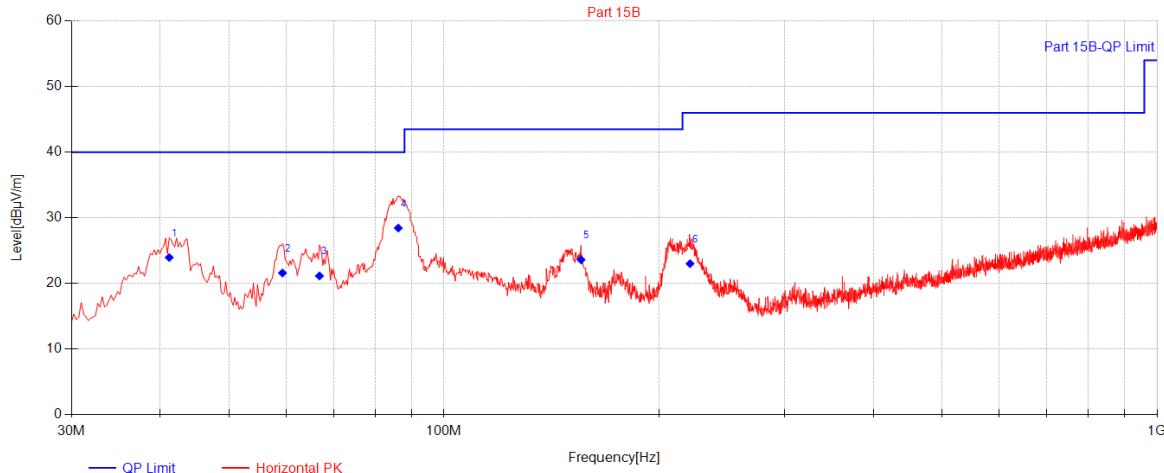
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BLE 2M_LF



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.155	46.22	-22.28	23.94	40.00	16.06	281	147	Horizontal
2	59.3425	45.16	-23.58	21.58	40.00	18.42	194	311	Horizontal
3	66.86	46.19	-25.06	21.13	40.00	18.87	173	277	Horizontal
4	86.26	55.18	-26.75	28.43	40.00	11.57	236	163	Horizontal
5	155.615	44.88	-21.28	23.60	43.50	19.90	251	262	Horizontal
6	221.3325	47.23	-24.23	23.00	46.00	23.00	299	26	Horizontal

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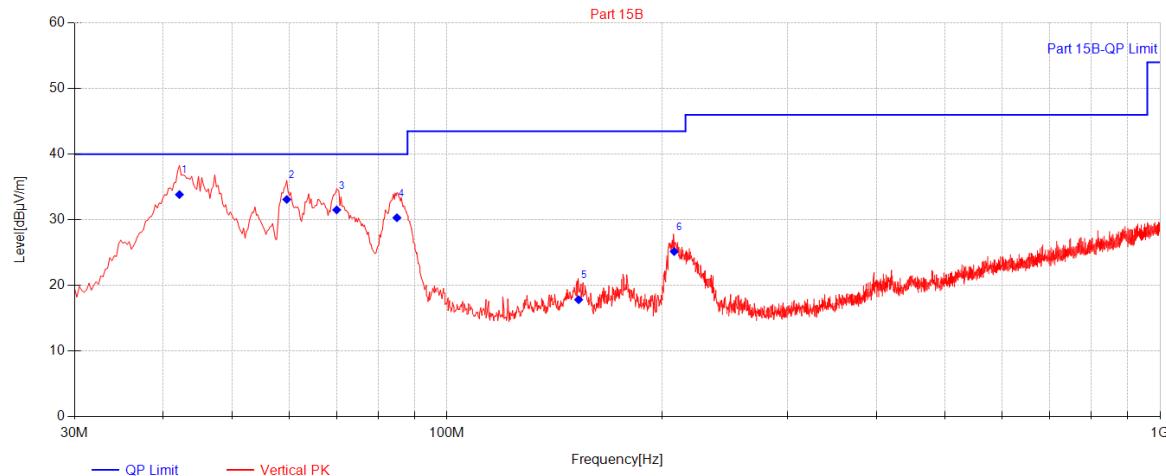
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BLE 2M_LF



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.125	56.19	-22.35	33.84	40.00	6.16	217	25	Vertical
2	59.585	56.71	-23.61	33.10	40.00	6.90	184	251	Vertical
3	70.0125	57.21	-25.70	31.51	40.00	8.49	196	1	Vertical
4	85.0475	56.98	-26.67	30.31	40.00	9.69	230	268	Vertical
5	152.9475	39.15	-21.34	17.81	43.50	25.69	251	84	Vertical
6	208.2375	50.01	-24.86	25.15	43.50	18.35	122	75	Vertical

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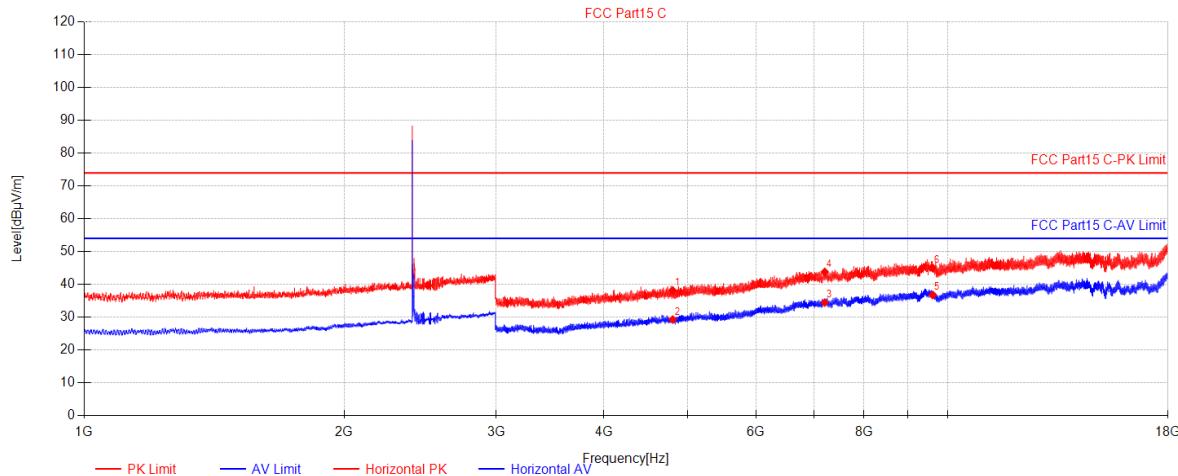
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Transmitter emission above 1GHz

BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	51.35	-13.21	38.14	74.00	35.86	168	255	Horizontal
2	4804.0000	42.46	-13.21	29.25	54.00	24.75	211	201	Horizontal
3	7206.0000	41.27	-6.84	34.43	54.00	19.57	203	63	Horizontal
4	7206.0000	50.64	-6.84	43.80	74.00	30.20	194	145	Horizontal
5	9608.0000	37.97	-1.22	36.75	54.00	17.25	233	3	Horizontal
6	9608.0000	46.23	-1.22	45.01	74.00	28.99	172	151	Horizontal

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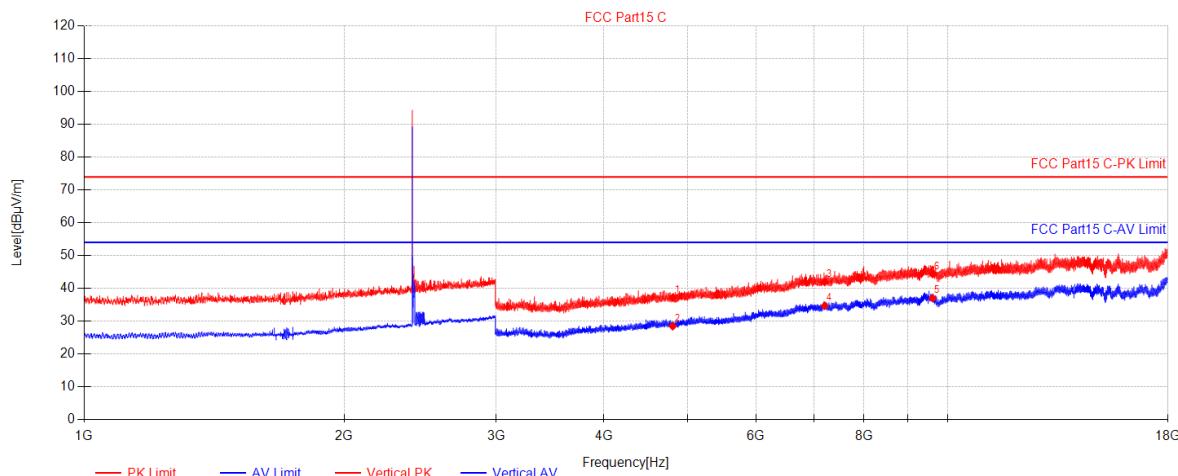


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BLE 1M_Channel 00



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4804.0000	50.41	-13.21	37.20	74.00	36.80	149	49	Vertical	
2	4804.0000	41.66	-13.21	28.45	54.00	25.55	180	86	Vertical	
3	7206.0000	48.78	-6.84	41.94	74.00	32.06	155	113	Vertical	
4	7206.0000	41.53	-6.84	34.69	54.00	19.31	259	153	Vertical	
5	9608.0000	38.22	-1.22	37.00	54.00	17.00	173	258	Vertical	
6	9608.0000	45.60	-1.22	44.38	74.00	29.62	191	101	Vertical	

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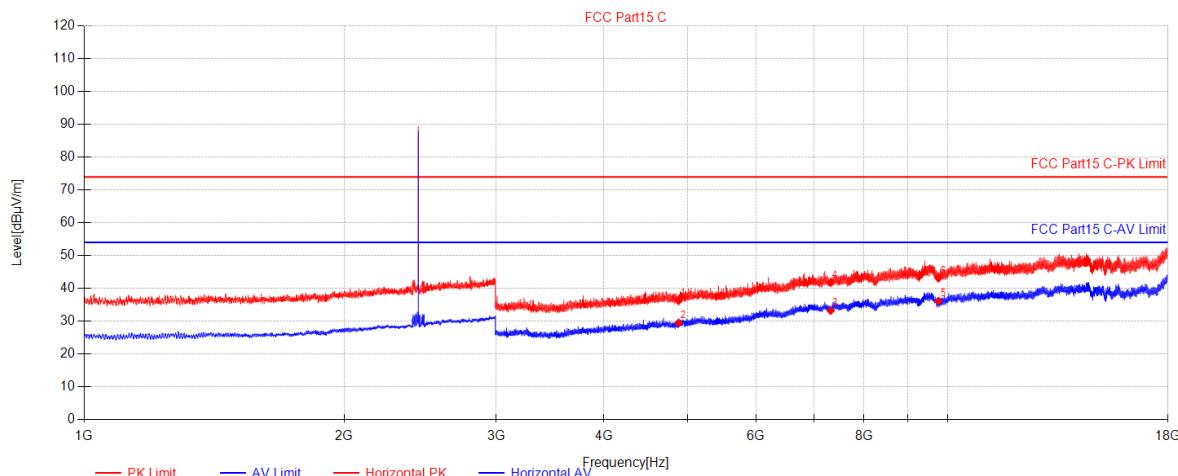
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Report No.: SEWM2203000022RG05
 Rev.: 01
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BLE 1M_Channel 19



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.16	-12.99	36.17	74.00	37.83	165	2	Horizontal
2	4880.0000	42.48	-12.99	29.49	54.00	24.51	177	14	Horizontal
3	7320.0000	40.32	-7.15	33.17	54.00	20.83	201	175	Horizontal
4	7320.0000	48.88	-7.15	41.73	74.00	32.27	142	333	Horizontal
5	9760.0000	37.29	-1.20	36.09	54.00	17.91	133	282	Horizontal
6	9760.0000	44.30	-1.20	43.10	74.00	30.90	184	174	Horizontal

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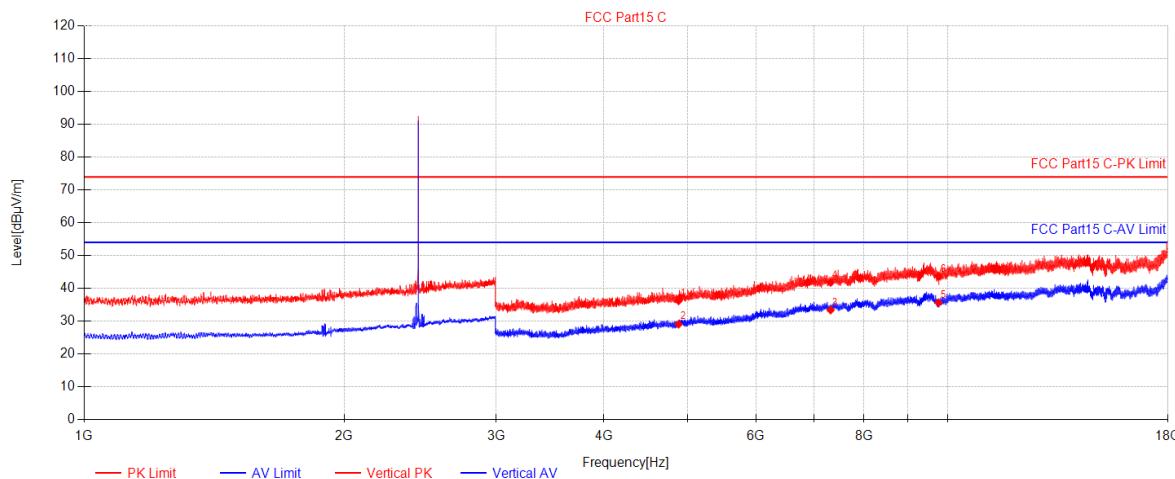
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NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.17	-12.99	36.18	74.00	37.82	222	197	Vertical
2	4880.0000	42.05	-12.99	29.06	54.00	24.94	234	148	Vertical
3	7320.0000	40.52	-7.15	33.37	54.00	20.63	175	16	Vertical
4	7320.0000	48.95	-7.15	41.80	74.00	32.20	155	304	Vertical
5	9760.0000	36.83	-1.20	35.63	54.00	18.37	299	39	Vertical
6	9760.0000	44.85	-1.20	43.65	74.00	30.35	203	356	Vertical

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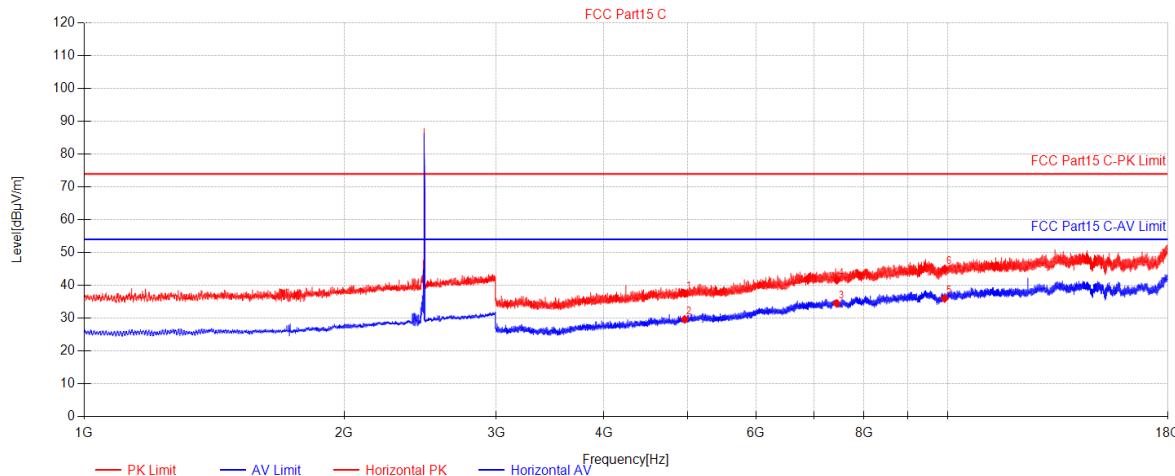
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Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	50.33	-12.83	37.50	74.00	36.50	211	185	Horizontal
2	4960.0000	42.45	-12.83	29.62	54.00	24.38	111	316	Horizontal
3	7440.0000	41.29	-6.83	34.46	54.00	19.54	192	179	Horizontal
4	7440.0000	48.38	-6.83	41.55	74.00	32.45	156	233	Horizontal
5	9920.0000	36.91	-0.93	35.98	54.00	18.02	189	287	Horizontal
6	9920.0000	45.90	-0.93	44.97	74.00	29.03	142	142	Horizontal

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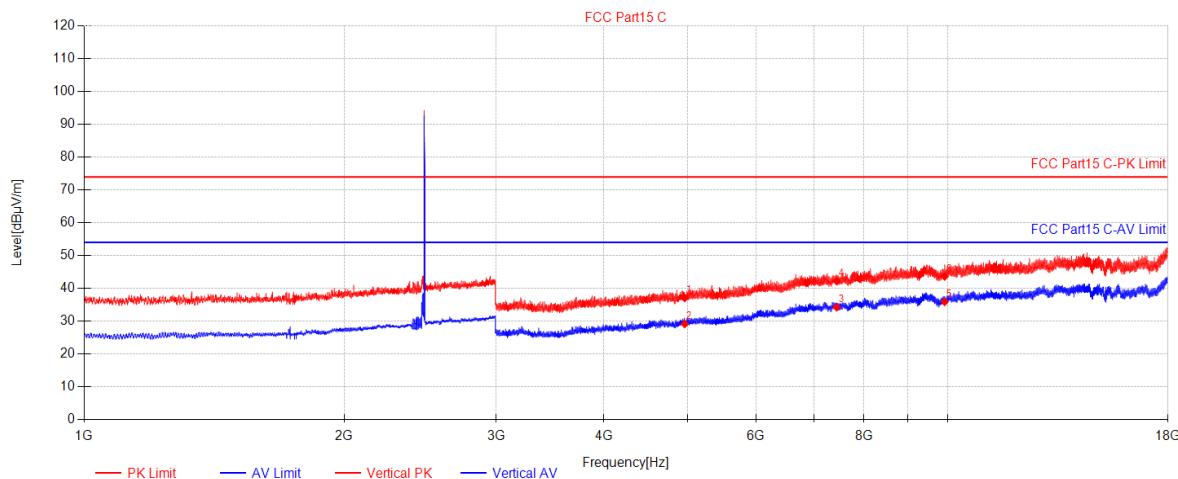
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1	4960.0000	49.90	-12.83	37.07	74.00	36.93	122	357	Vertical	
2	4960.0000	41.97	-12.83	29.14	54.00	24.86	213	317	Vertical	
3	7440.0000	41.05	-6.83	34.22	54.00	19.78	172	158	Vertical	
4	7440.0000	49.03	-6.83	42.20	74.00	31.80	216	3	Vertical	
5	9920.0000	36.80	-0.93	35.87	54.00	18.13	199	157	Vertical	
6	9920.0000	44.58	-0.93	43.65	74.00	30.35	184	238	Vertical	

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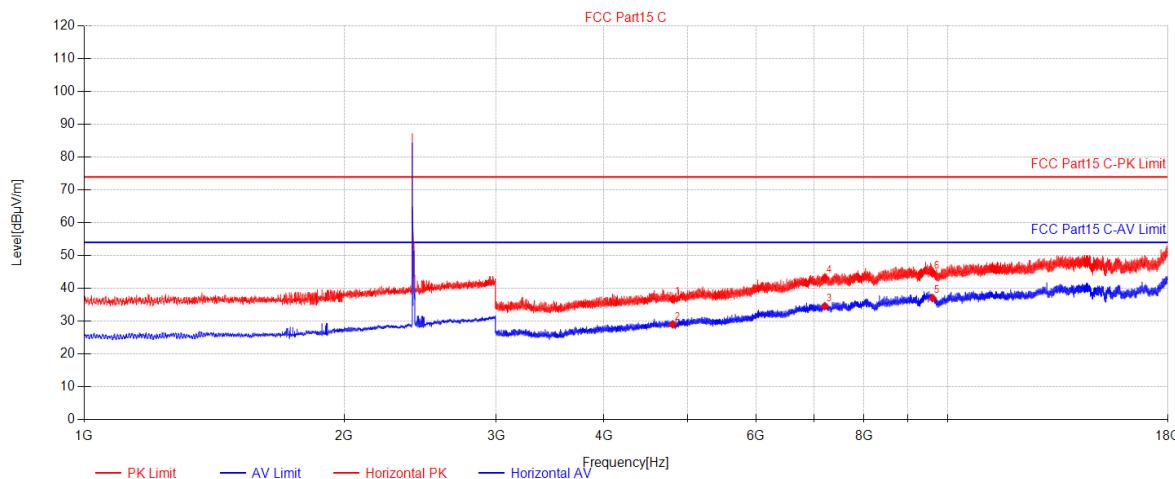
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BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	49.87	-13.21	36.66	74.00	37.34	124	144	Horizontal
2	4804.0000	42.24	-13.21	29.03	54.00	24.97	155	310	Horizontal
3	7206.0000	41.41	-6.84	34.57	54.00	19.43	201	345	Horizontal
4	7206.0000	50.01	-6.84	43.17	74.00	30.83	236	211	Horizontal
5	9608.0000	38.23	-1.22	37.01	54.00	16.99	175	145	Horizontal
6	9608.0000	45.79	-1.22	44.57	74.00	29.43	195	239	Horizontal

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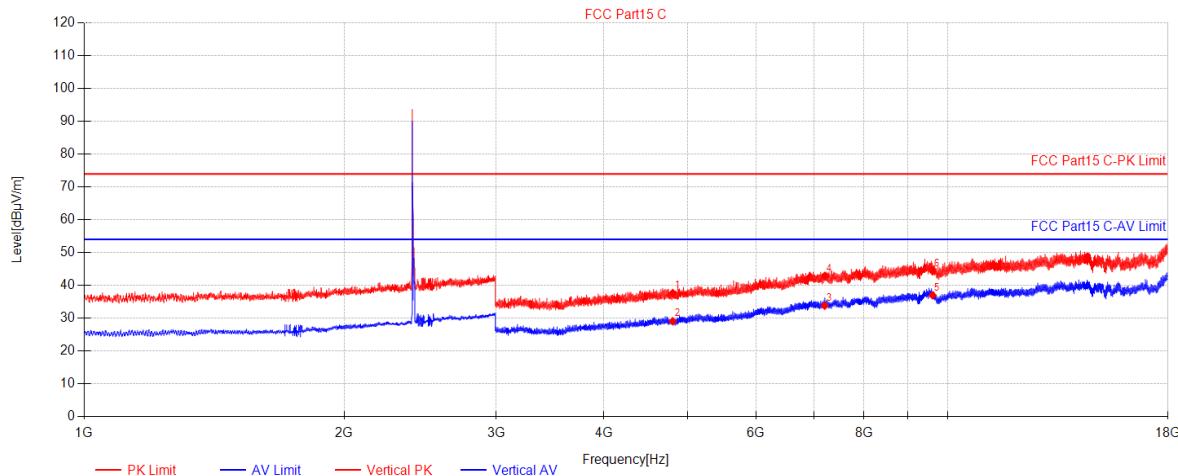
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BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	50.85	-13.21	37.64	74.00	36.36	136	261	Vertical
2	4804.0000	42.26	-13.21	29.05	54.00	24.95	201	317	Vertical
3	7206.0000	40.64	-6.84	33.80	54.00	20.20	213	212	Vertical
4	7206.0000	49.71	-6.84	42.87	74.00	31.13	299	188	Vertical
5	9608.0000	38.17	-1.22	36.95	54.00	17.05	140	292	Vertical
6	9608.0000	45.52	-1.22	44.30	74.00	29.70	175	125	Vertical

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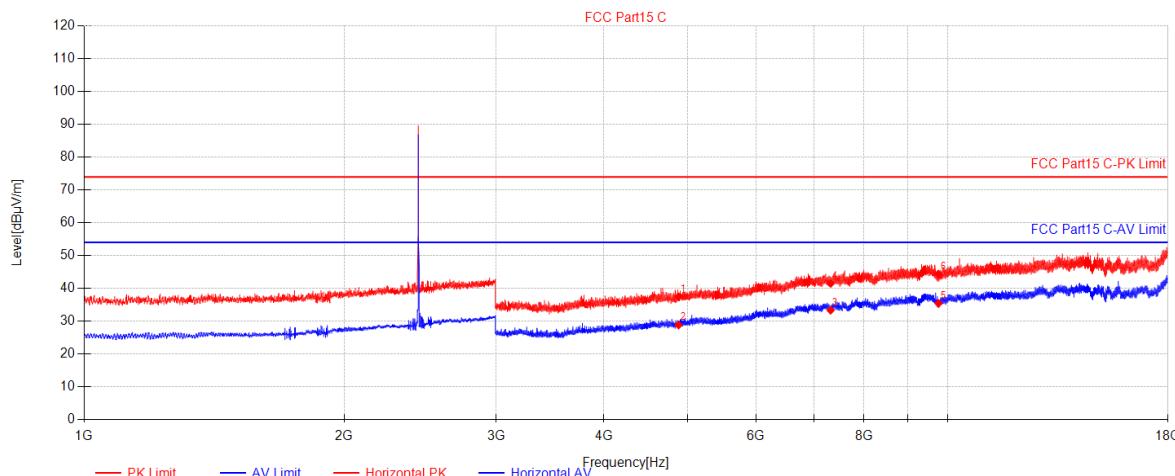
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1	4880.0000	50.43	-12.99	37.44	74.00	36.56	186	137	Horizontal
2	4880.0000	41.80	-12.99	28.81	54.00	25.19	166	251	Horizontal
3	7320.0000	40.45	-7.15	33.30	54.00	20.70	255	55	Horizontal
4	7320.0000	48.65	-7.15	41.50	74.00	32.50	194	144	Horizontal
5	9760.0000	36.62	-1.20	35.42	54.00	18.58	203	4	Horizontal
6	9760.0000	45.52	-1.20	44.32	74.00	29.68	172	315	Horizontal

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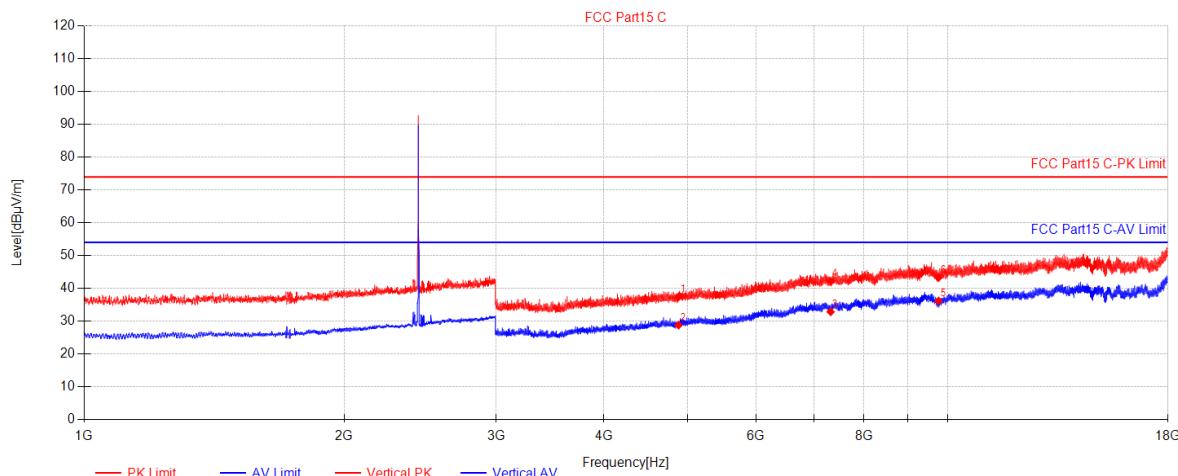
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1	4880.0000	50.41	-12.99	37.42	74.00	36.58	148	106	Vertical
2	4880.0000	41.75	-12.99	28.76	54.00	25.24	170	162	Vertical
3	7320.0000	39.99	-7.15	32.84	54.00	21.16	238	239	Vertical
4	7320.0000	49.28	-7.15	42.13	74.00	31.87	197	54	Vertical
5	9760.0000	37.34	-1.20	36.14	54.00	17.86	163	188	Vertical
6	9760.0000	44.53	-1.20	43.33	74.00	30.67	182	188	Vertical

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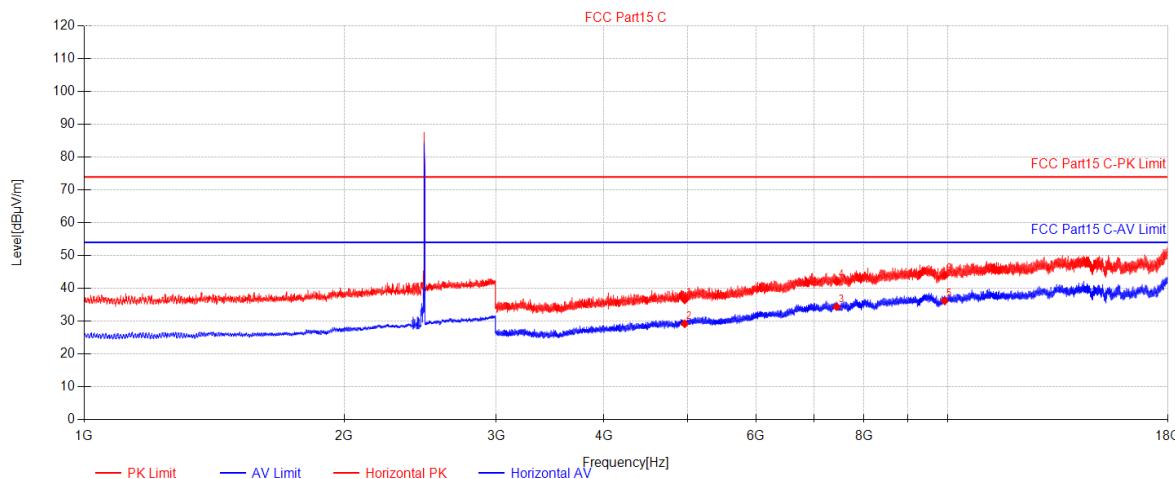
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1	4960.0000	49.30	-12.83	36.47	74.00	37.53	199	84	Horizontal
2	4960.0000	42.02	-12.83	29.19	54.00	24.81	143	29	Horizontal
3	7440.0000	41.19	-6.83	34.36	54.00	19.64	286	242	Horizontal
4	7440.0000	48.87	-6.83	42.04	74.00	31.96	122	145	Horizontal
5	9920.0000	37.14	-0.93	36.21	54.00	17.79	188	342	Horizontal
6	9920.0000	44.82	-0.93	43.89	74.00	30.11	207	161	Horizontal

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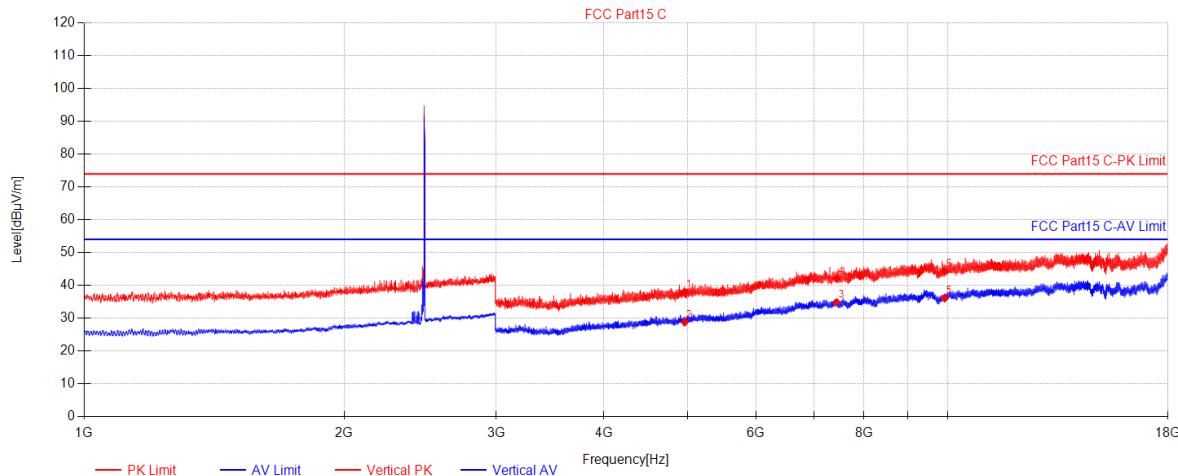
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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960.0000	50.80	-12.83	37.97	74.00	36.03	111	336	Vertical	
2	4960.0000	41.57	-12.83	28.74	54.00	25.26	201	349	Vertical	
3	7440.0000	41.63	-6.83	34.80	54.00	19.20	233	169	Vertical	
4	7440.0000	48.85	-6.83	42.02	74.00	31.98	258	309	Vertical	
5	9920.0000	37.00	-0.93	36.07	54.00	17.93	172	131	Vertical	
6	9920.0000	45.19	-0.93	44.26	74.00	29.74	194	54	Vertical	

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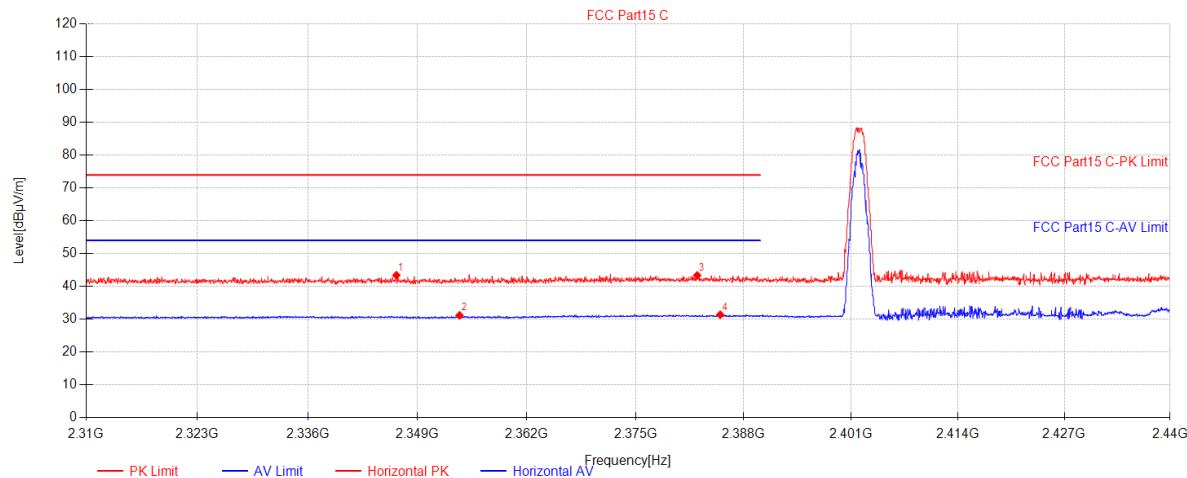


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Restricted bands around fundamental frequency

BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2346.4867	40.29	3.09	43.38	74.00	30.62	235	107	Horizontal
2	2353.9833	28.06	3.08	31.14	54.00	22.86	235	107	Horizontal
3	2382.41	40.25	3.08	43.33	74.00	30.67	235	107	Horizontal
4	2385.1833	28.27	3.07	31.34	54.00	22.66	235	107	Horizontal

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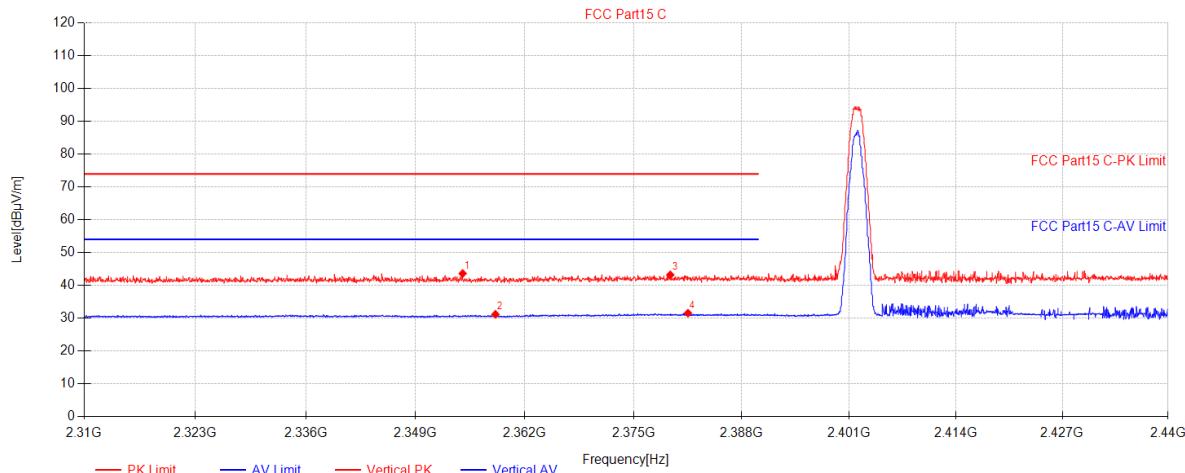
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BLE 1M Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2354.59	40.53	3.08	43.61	74.00	30.39	144	43	Vertical
2	2358.49	28.07	3.08	31.15	54.00	22.85	144	43	Vertical
3	2379.42	40.11	3.08	43.19	74.00	30.81	144	43	Vertical
4	2381.5433	28.43	3.08	31.51	54.00	22.49	144	43	Vertical

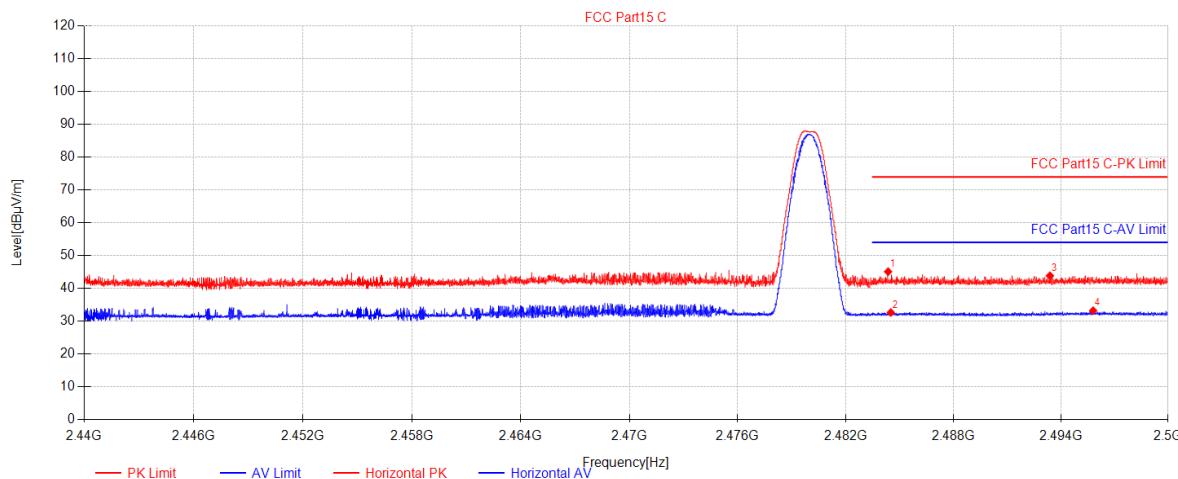
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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2484.3625	41.48	3.60	45.08	74.00	28.92	199	242	Horizontal	
2	2484.5125	29.03	3.60	32.63	54.00	21.37	199	242	Horizontal	
3	2493.3925	40.17	3.66	43.83	74.00	30.17	199	242	Horizontal	
4	2495.8075	29.53	3.67	33.20	54.00	20.80	199	242	Horizontal	

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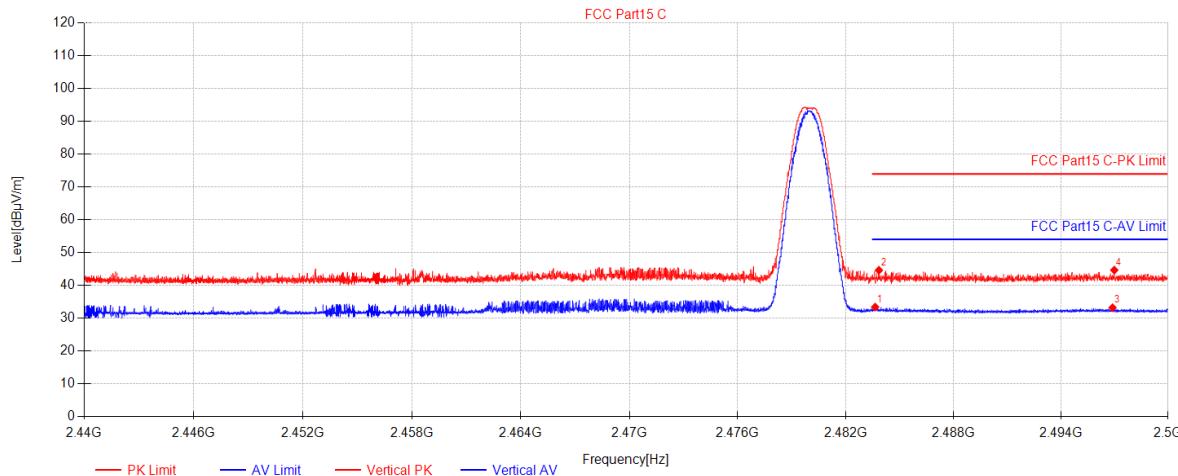
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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.6425	29.77	3.60	33.37	54.00	20.63	154	126	Vertical	
2	2483.8525	41.00	3.60	44.60	74.00	29.40	154	126	Vertical	
3	2496.895	29.50	3.68	33.18	54.00	20.82	154	126	Vertical	
4	2496.9925	40.97	3.68	44.65	74.00	29.35	154	126	Vertical	

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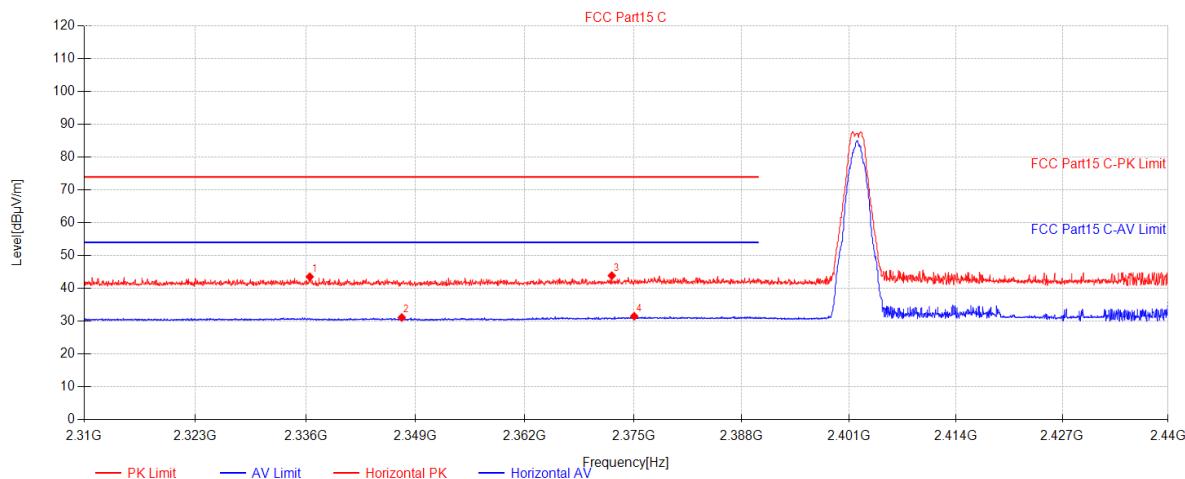
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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2336.4767	40.44	3.09	43.53	74.00	30.47	158	234	Horizontal	
2	2347.3533	28.01	3.09	31.10	54.00	22.90	158	234	Horizontal	
3	2372.4	40.79	3.08	43.87	74.00	30.13	158	234	Horizontal	
4	2375.0867	28.41	3.08	31.49	54.00	22.51	158	234	Horizontal	

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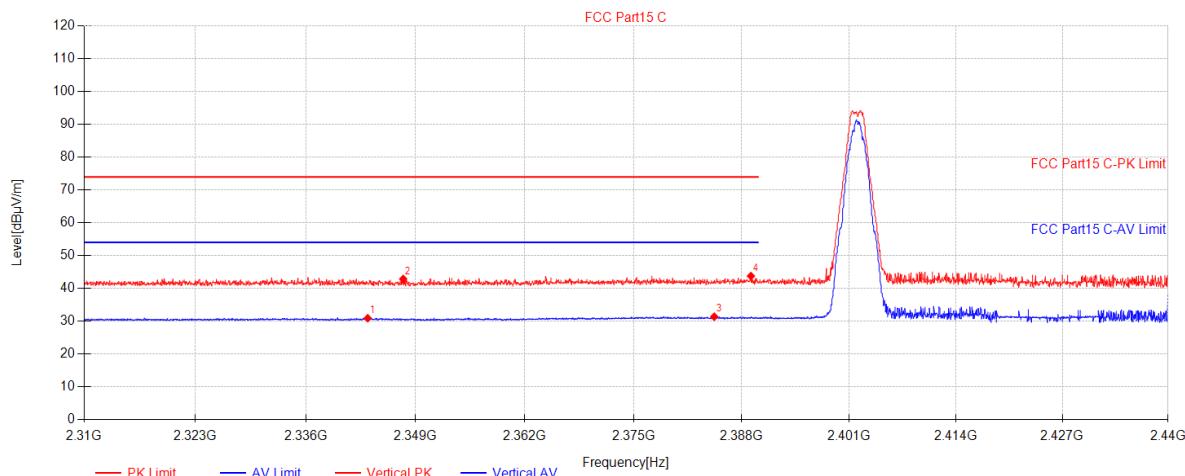
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Wireless Laboratory

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BLE 2M_Channel 00



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2343.3233	27.80	3.09	30.89	54.00	23.11	269	107	Vertical	
2	2347.5267	39.77	3.09	42.86	74.00	31.14	269	107	Vertical	
3	2384.7067	28.28	3.07	31.35	54.00	22.65	269	107	Vertical	
4	2389.1267	40.68	3.07	43.75	74.00	30.25	269	107	Vertical	

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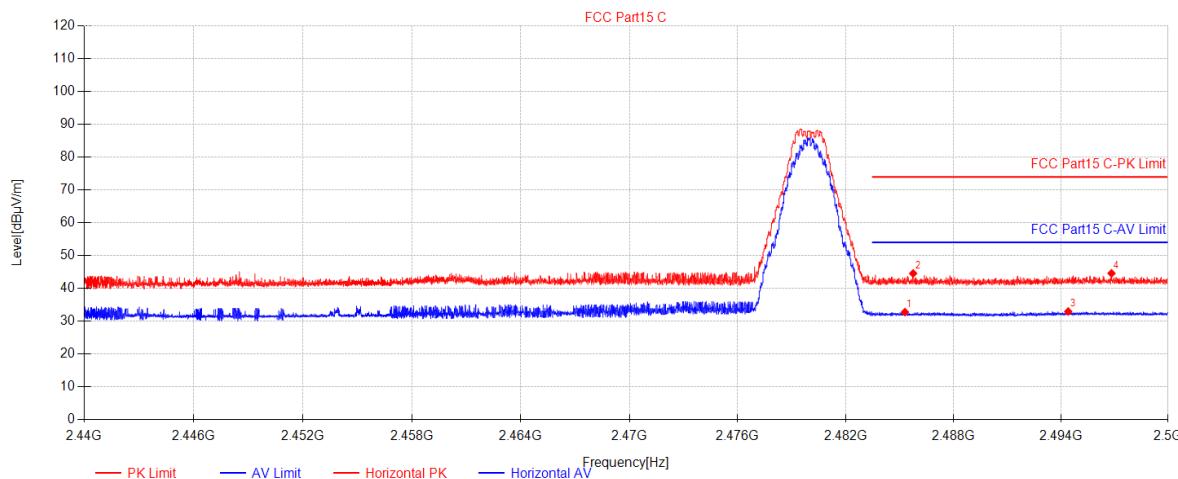


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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2485.3	29.14	3.61	32.75	54.00	21.25	199	213	Horizontal	
2	2485.7575	40.94	3.61	44.55	74.00	29.45	199	213	Horizontal	
3	2494.4125	29.27	3.66	32.93	54.00	21.07	199	213	Horizontal	
4	2496.835	40.90	3.68	44.58	74.00	29.42	199	213	Horizontal	

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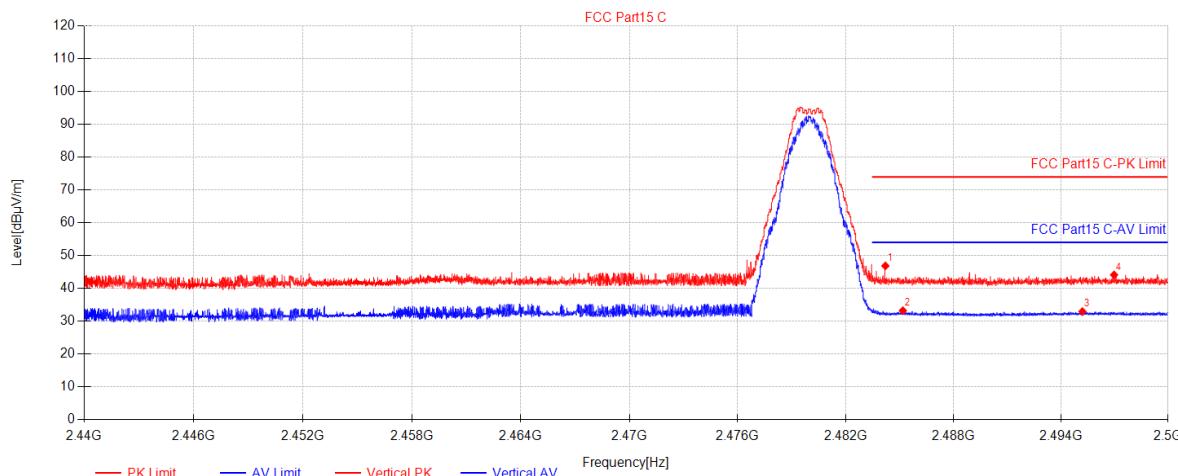
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2484.2125	43.24	3.60	46.84	74.00	27.16	145	120	Vertical	
2	2485.1875	29.58	3.61	33.19	54.00	20.81	145	120	Vertical	
3	2495.2075	29.25	3.67	32.92	54.00	21.08	145	120	Vertical	
4	2496.9775	40.43	3.68	44.11	74.00	29.89	145	120	Vertical	

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