

Report No.: SEWM2302000047RG02  
 Rev.: 01  
 Page: 1 of 122

# TEST REPORT

**Application No.:** SEWM2302000047RG  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Tablet Computer  
**Model No.:** 23043RP34G  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZRP34G  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2023/02/22  
**Date of Test:** 2023/02/24 to 2023/03/16  
**Date of Issue:** 2023/03/16

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

Authorized Signature:


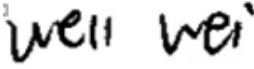
Panta Sun  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/03/16		Original

<b>Prepared By</b>		 <hr/> (Tizy Song) / Test Engineer
<b>Checked By</b>		 <hr/> (Well Wei) / Reviewer



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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 Section 11.9.2.3	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

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

#### 3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (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:

<ul style="list-style-type: none"> <li> <b>A2LA (Certificate No. 6336.01)</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.         </li> <li> <b>Innovation, Science and Economic Development Canada</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.            CAB identifier: CN0120.            IC#: 27594.         </li> <li> <b>FCC –Designation Number: CN1312</b>            SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.            Designation Number: CN1312.            Test Firm Registration Number: 717327         </li> </ul>
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### 3.4 General Description of EUT

EUT Description:	Tablet Computer	
Model No.:	23043RP34G	
Trade Mark:	XIAOMI	
Hardware Version:	P2	
Software Version:	MIUI 14	
SN:	RF Conducted	VY307K000227
	RSE & AC power line	VY305K000535
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$ , where: - $f_c$ = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.	
Bluetooth version:	Bluetooth V5.2	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type*:	<input checked="" type="checkbox"/> Provided by client	
	1M PHY	2M PHY
Antenna Type:	Ant0: PIFA Antenna	
	Ant1: Resonant cavity Antenna	
Antenna Gain:	-3.53dBi (Ant0); -2.22dBi (Ant1)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
<p>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.</p> <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>		



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	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.87
Remark: NV: Normal Voltage NT: Normal 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

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(b)
<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 PIFA Antenna and Resonant cavity Antenna and no consideration of replacement.                  The best case gain of the antenna is -3.53dBi (Ant0); -2.22dBi (Ant1). *</p>	
<p><i>*Note:</i>                  The antenna gain are derived from the gain information report provided by the manufacturer.</p> <p><i>Remark:</i>                  As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>	



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### 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 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"> <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>



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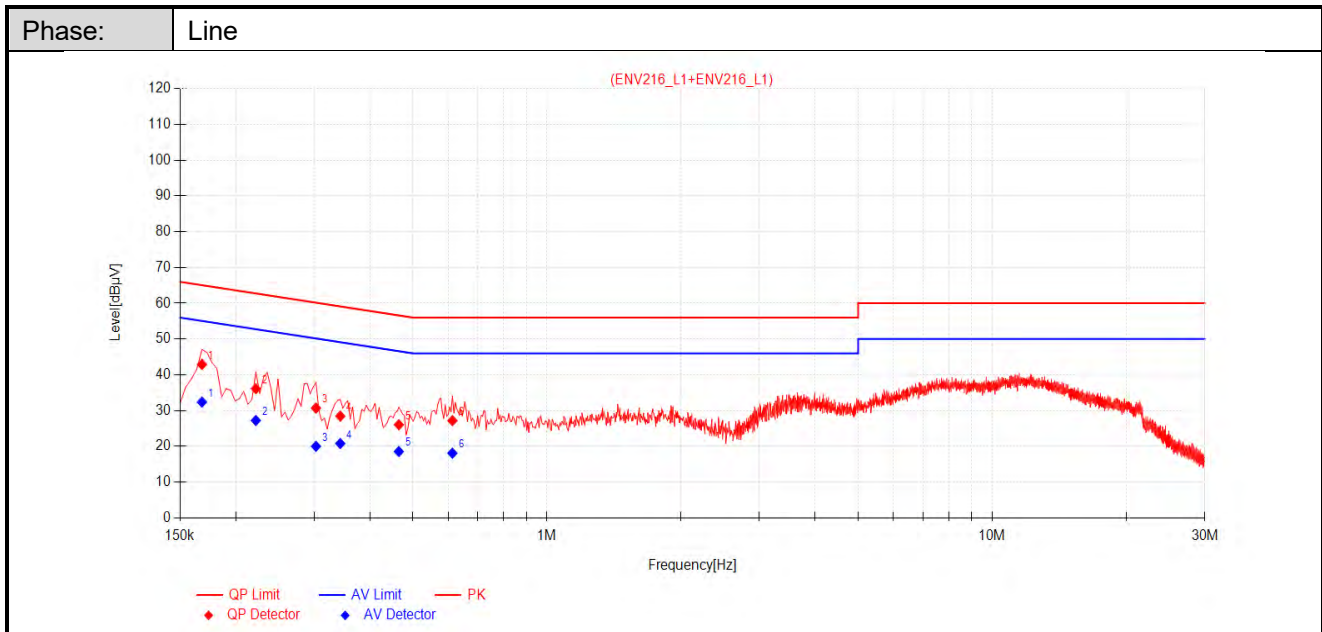
**Measurement Data**

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.

**For Ant 0:**

**BLE 1M:**



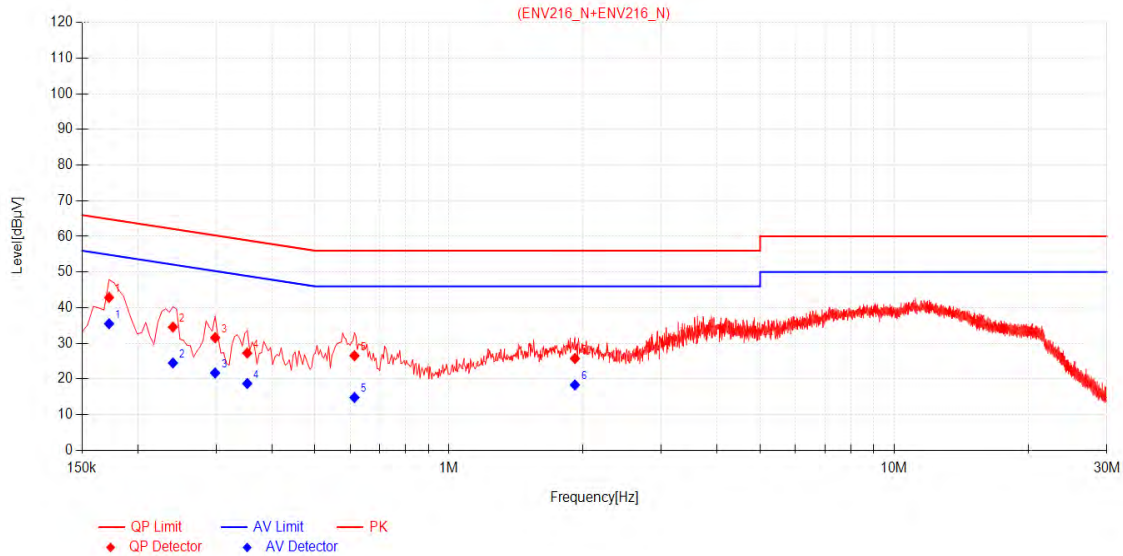
Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	10.71	32.17	42.88	65.06	22.18	21.67	32.38	55.06	22.68	PASS
2	0.2220	10.81	25.31	36.12	62.74	26.62	16.41	27.22	52.74	25.52	PASS
3	0.3030	10.62	20.08	30.70	60.16	29.46	9.38	20.00	50.16	30.16	PASS
4	0.3435	10.52	17.92	28.44	59.12	30.68	10.27	20.79	49.12	28.33	PASS
5	0.4650	10.57	15.48	26.05	56.60	30.55	7.98	18.55	46.60	28.05	PASS
6	0.6135	10.51	16.68	27.19	56.00	28.81	7.59	18.10	46.00	27.90	PASS

**Remark:**

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1725	10.71	32.15	42.86	64.84	21.98	24.78	35.49	54.84	19.35	PASS
2	0.2400	10.72	23.84	34.56	62.10	27.54	13.78	24.50	52.10	27.60	PASS
3	0.2985	10.76	20.84	31.60	60.28	28.68	10.94	21.70	50.28	28.58	PASS
4	0.3525	10.81	16.46	27.27	58.90	31.63	7.92	18.73	48.90	30.17	PASS
5	0.6135	10.70	15.84	26.54	56.00	29.46	4.11	14.81	46.00	31.19	PASS
6	1.9185	10.77	14.98	25.75	56.00	30.25	7.57	18.34	46.00	27.66	PASS

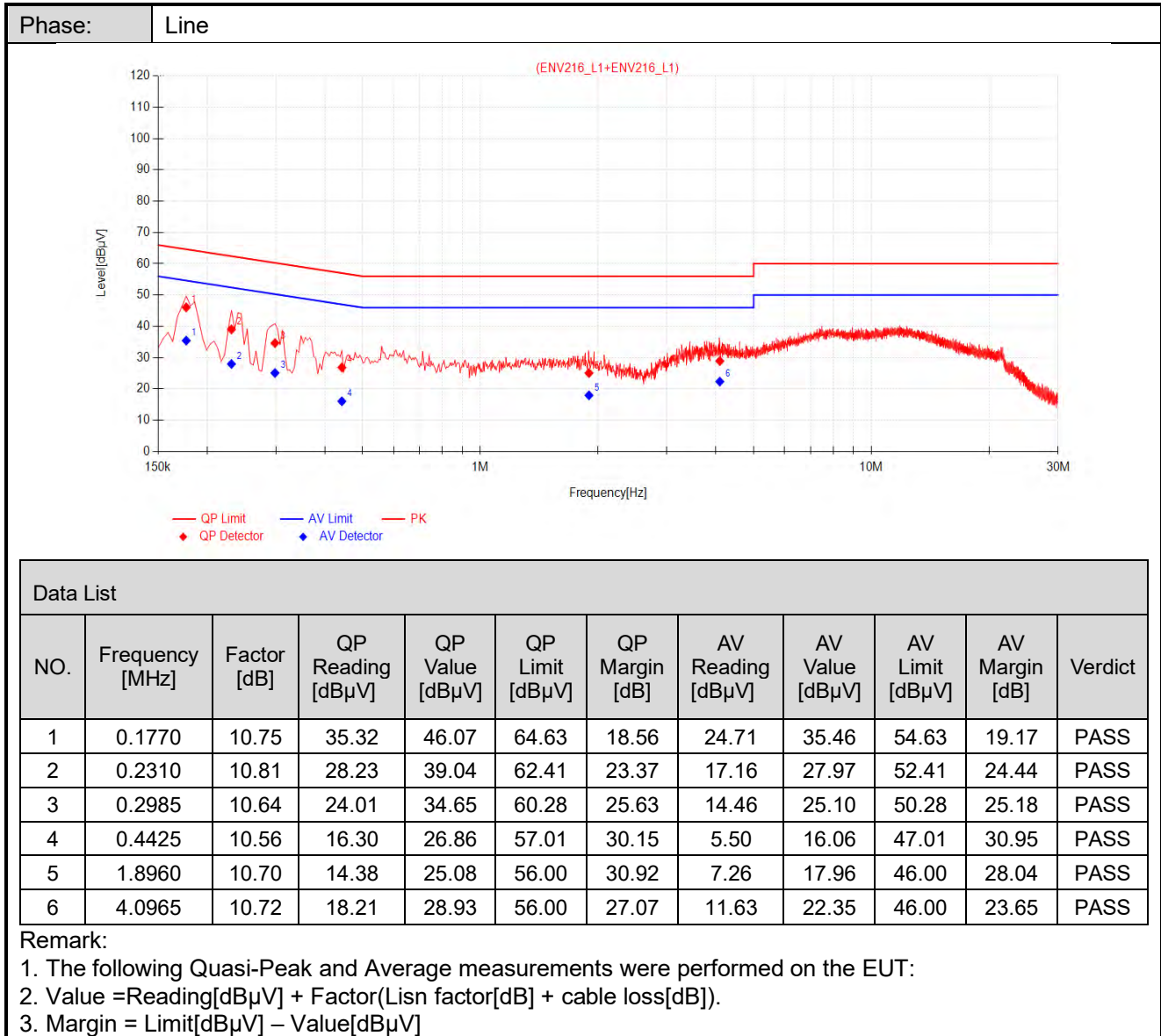
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]

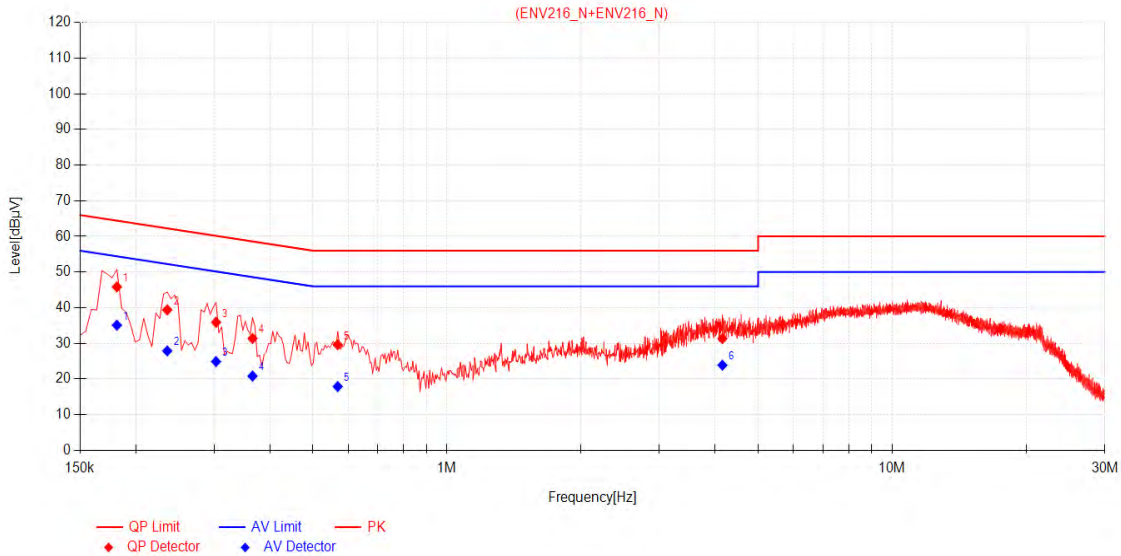


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**BLE 2M:**



Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1815	10.70	35.14	45.84	64.42	18.58	24.38	35.08	54.42	19.34	PASS
2	0.2355	10.71	28.67	39.38	62.25	22.87	17.17	27.88	52.25	24.37	PASS
3	0.3030	10.76	25.15	35.91	60.16	24.25	14.13	24.89	50.16	25.27	PASS
4	0.3660	10.81	20.58	31.39	58.59	27.20	10.01	20.82	48.59	27.77	PASS
5	0.5685	10.72	18.89	29.61	56.00	26.39	7.16	17.88	46.00	28.12	PASS
6	4.1550	10.72	20.64	31.36	56.00	24.64	13.16	23.88	46.00	22.12	PASS

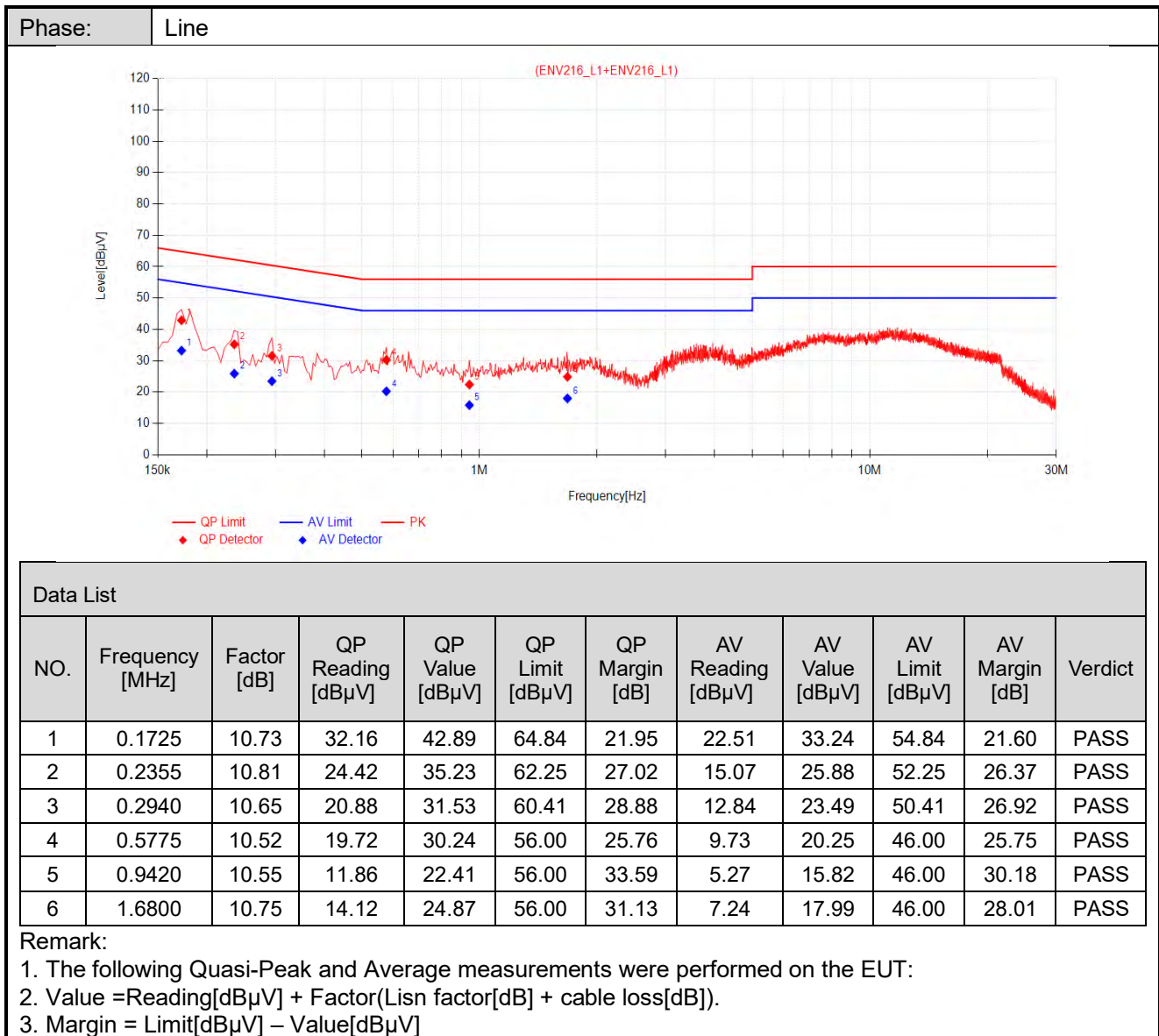
Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



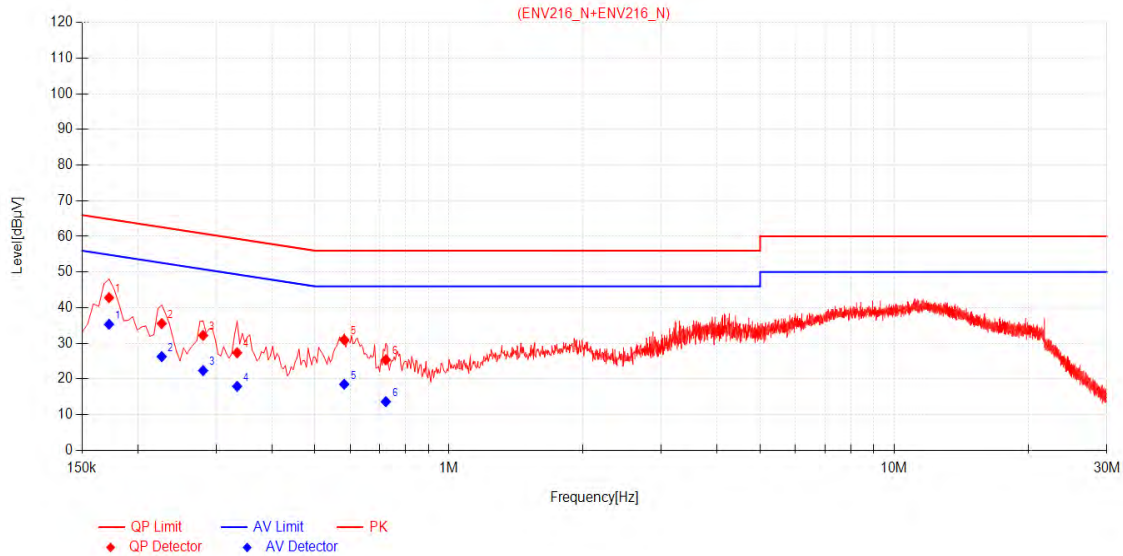
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**For Ant 1(Worst):**  
**BLE 1M:**





Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1725	10.71	32.09	42.80	64.84	22.04	24.63	35.34	54.84	19.50	PASS
2	0.2265	10.70	24.86	35.56	62.58	27.02	15.58	26.28	52.58	26.30	PASS
3	0.2805	10.74	21.49	32.23	60.80	28.57	11.63	22.37	50.80	28.43	PASS
4	0.3345	10.79	16.58	27.37	59.34	31.97	7.15	17.94	49.34	31.40	PASS
5	0.5820	10.70	20.30	31.00	56.00	25.00	7.83	18.53	46.00	27.47	PASS
6	0.7215	10.81	14.57	25.38	56.00	30.62	2.84	13.65	46.00	32.35	PASS

Remark:

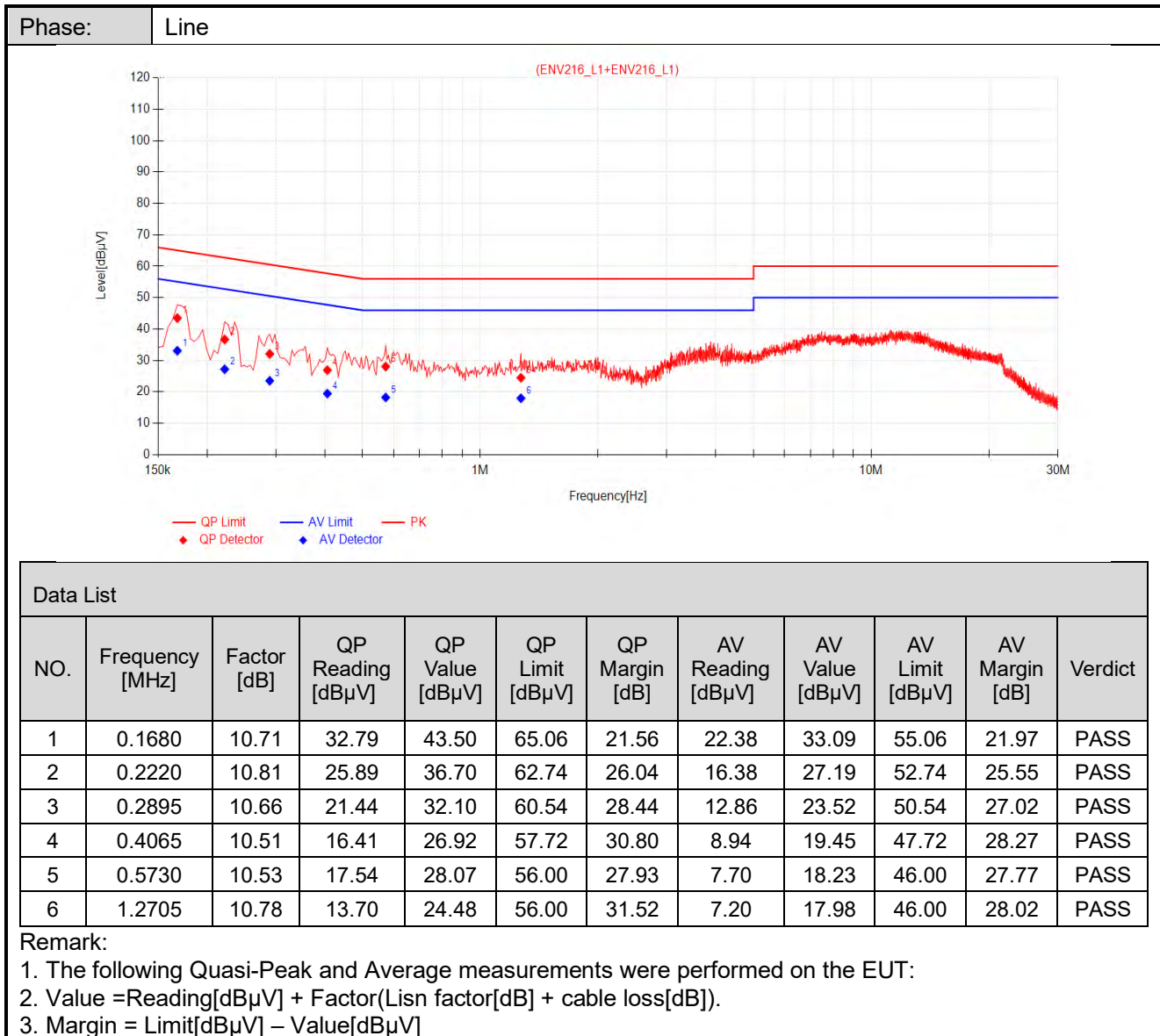
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



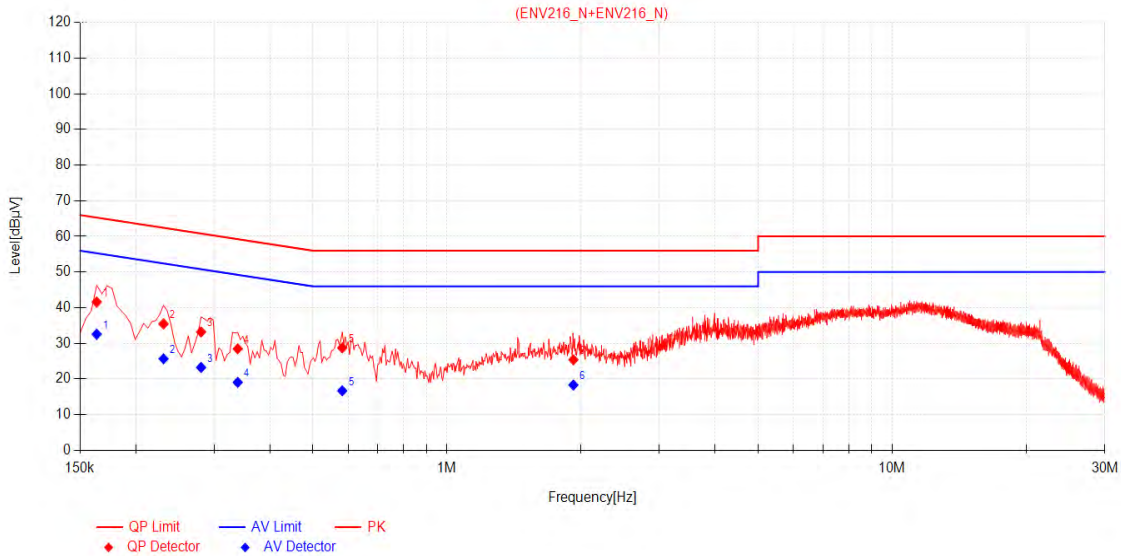
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**BLE 2M:**



Phase: Neutral



Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.72	30.87	41.59	65.28	23.69	21.84	32.56	55.28	22.72	PASS
2	0.2310	10.70	24.76	35.46	62.41	26.95	14.97	25.67	52.41	26.74	PASS
3	0.2805	10.74	22.46	33.20	60.80	27.60	12.50	23.24	50.80	27.56	PASS
4	0.3390	10.80	17.67	28.47	59.23	30.76	8.27	19.07	49.23	30.16	PASS
5	0.5820	10.70	18.05	28.75	56.00	27.25	5.99	16.69	46.00	29.31	PASS
6	1.9230	10.77	14.63	25.40	56.00	30.60	7.55	18.32	46.00	27.68	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
3. Margin = Limit[dBµV] – Value[dBµV]



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Report No.: SEWM2302000047RG02

Rev.: 01

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### 4.3 Duty Cycle

The detailed test data see: **Appendix**

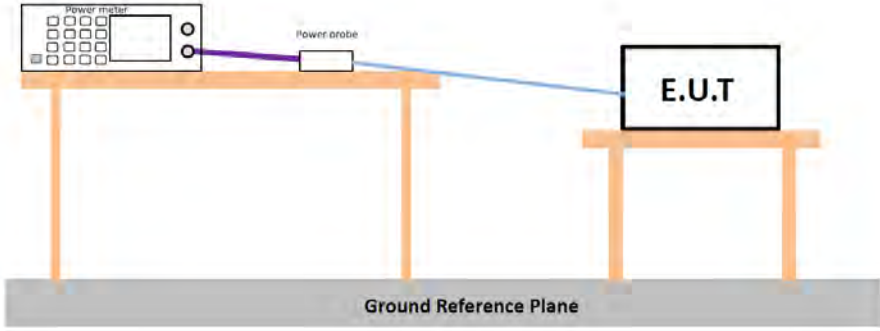


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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 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: <b>Appendix</b>	



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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:	
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: <b>Appendix</b>	



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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: <b>Appendix</b>	



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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: <b>Appendix</b>	



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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: <b>Appendix</b>	



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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:

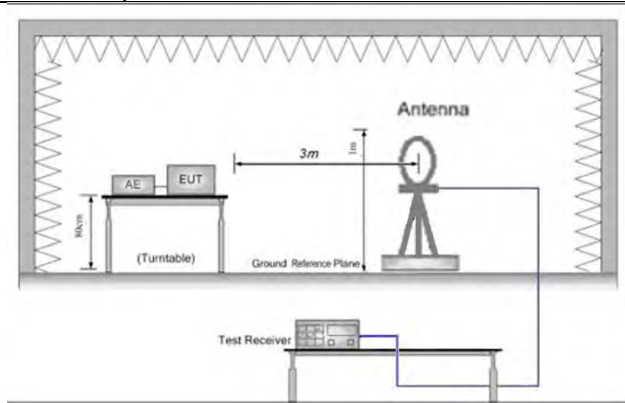


Figure 1. Below 30MHz

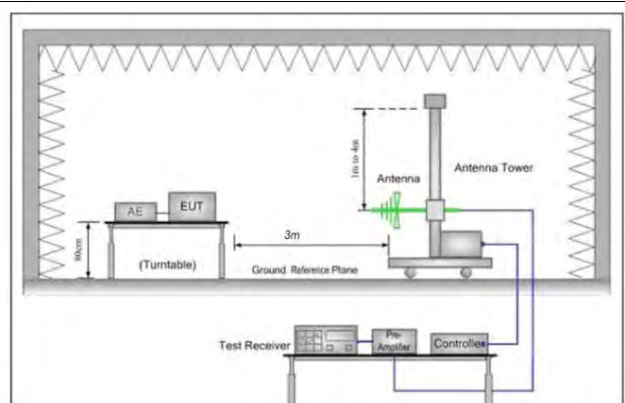


Figure 2. 30MHz to 1GHz



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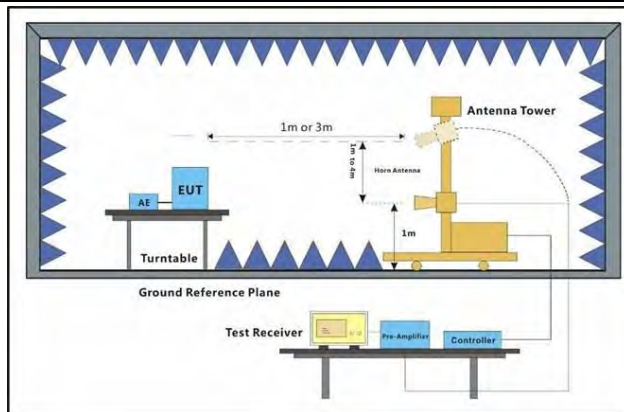


Figure 3. Above 1 GHz

<p>Test Procedure:</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 (Distance from antenna to EUT is 1m for measurements &gt;18GHz).</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Test the EUT in the lowest channel, the middle channel, the Highest channel.</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> <li>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</li> <li>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.</li> <li>At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>RBW = 10 kHz</li> <li>VBW = 30 kHz</li> <li>Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>Trace mode = max hold</li> </ul>



	<p>Measurements 30 ~ 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
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: <b>Appendix</b>	



### 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:

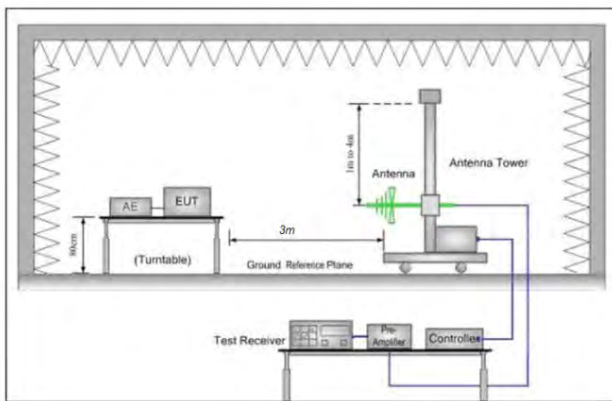


Figure 1. 30MHz to 1GHz

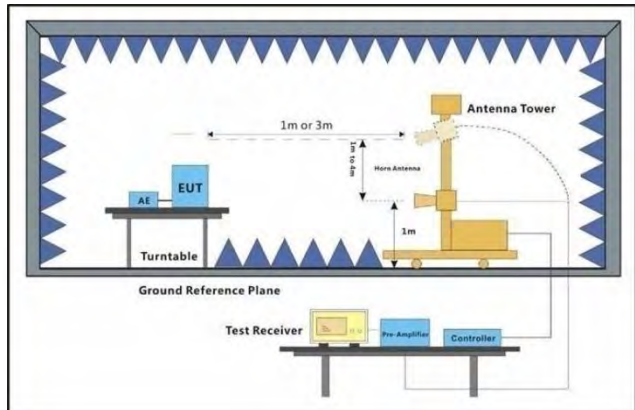


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> <li>For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit</li> </ol>
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	<p>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</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"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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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)
		± 4.88dB (30M -1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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## 6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05



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CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-04	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2021/12/05	2023/12/04
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2022/11/23	2023/11/22
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2022/11/23	2023/11/22
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2022/09/16	2023/09/15
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: SEWM2302000047RG02

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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	Ant0	2402	0.69	2401.65	2402.34	≥0.5	PASS
		2440	0.69	2439.65	2440.34	≥0.5	PASS
		2480	0.70	2479.64	2480.34	≥0.5	PASS
BLE_2M	Ant0	2402	1.18	2401.41	2402.59	≥0.5	PASS
		2440	1.18	2439.41	2440.59	≥0.5	PASS
		2480	1.18	2479.40	2480.59	≥0.5	PASS

Note: This antenna is the worst

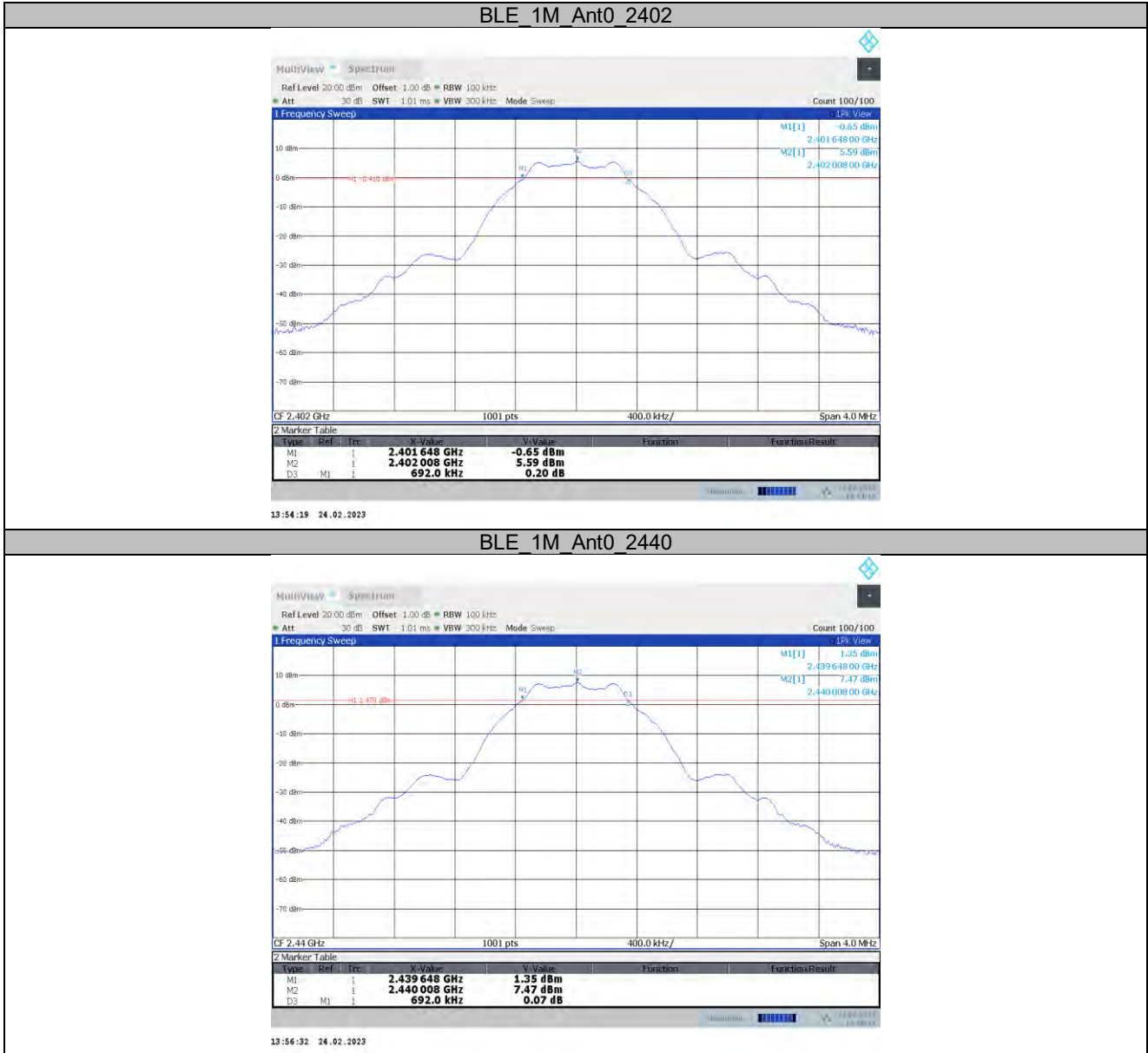


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Test Graphs



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BLE\_1M\_Ant0\_2480



13:58:31 24.02.2023

BLE\_2M\_Ant0\_2402



14:07:26 24.02.2023



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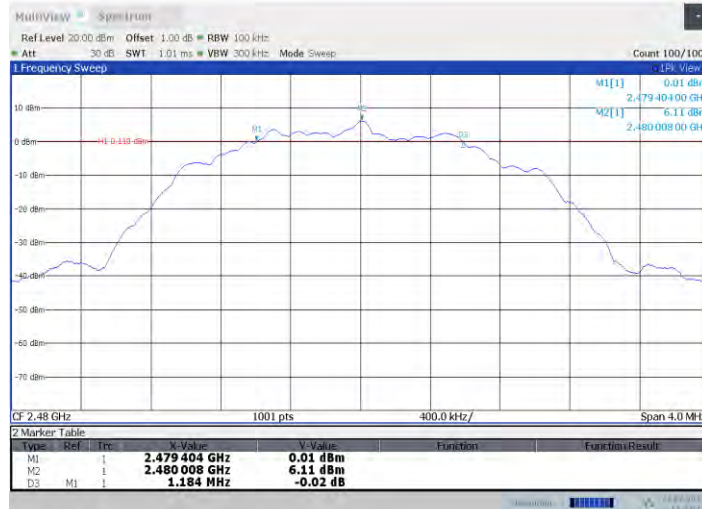
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BLE\_2M\_Ant0\_2440



14:19:39 24.02.2023

BLE\_2M\_Ant0\_2480



14:22:48 24.02.2023



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### Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant0	2402	1.021	2401.493	2402.514	Reporting only
		2440	1.02	2439.492	2440.513	
		2480	1.019	2479.491	2480.510	
BLE_2M	Ant0	2402	2.011	2401.009	2403.020	
		2440	2.01	2439.007	2441.017	
		2480	2.009	2479.004	2481.013	

Note: This antenna is the worst



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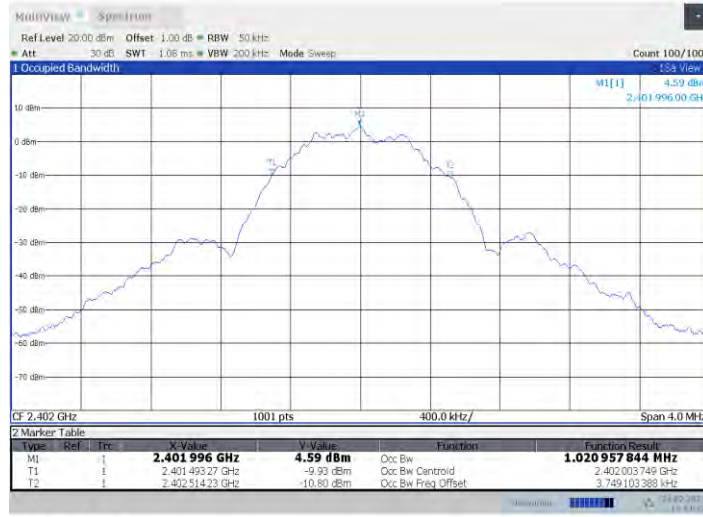
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Test Graphs

BLE\_1M\_Ant0\_2402



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BLE\_1M\_Ant0\_2440



13:56:45 24.02.2023



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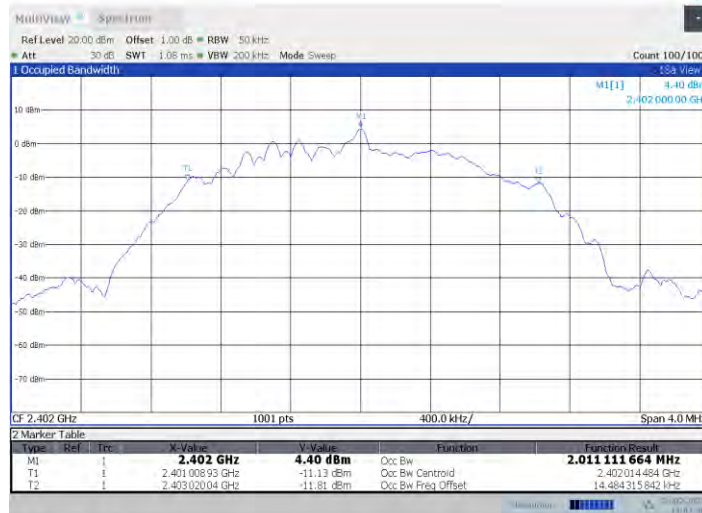
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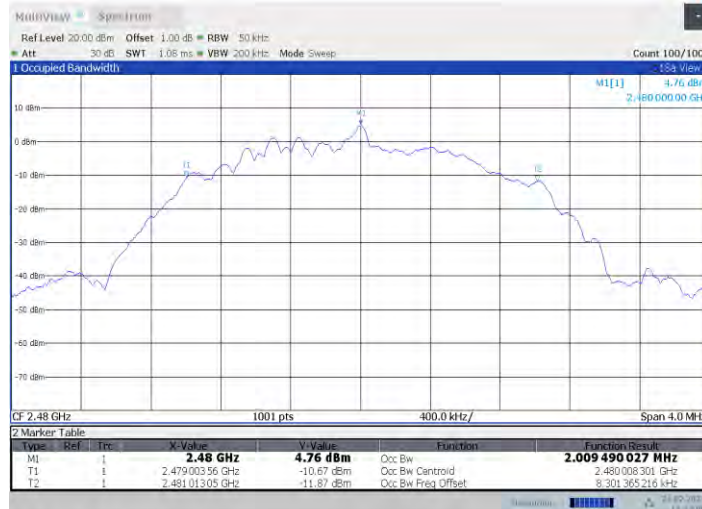
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**Maximum conducted output power  
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant0	2402	6.56	≤30	PASS
		2440	8.15	≤30	PASS
		2480	6.88	≤30	PASS
BLE_2M	Ant0	2402	6.67	≤30	PASS
		2440	8.57	≤30	PASS
		2480	6.78	≤30	PASS
BLE_1M	Ant1	2402	6.74	≤30	PASS
		2440	8.01	≤30	PASS
		2480	6.26	≤30	PASS
BLE_2M	Ant1	2402	6.89	≤30	PASS
		2440	8.31	≤30	PASS
		2480	6.33	≤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	Ant0	2402	-8.82	≤8.00	PASS
		2440	-7.06	≤8.00	PASS
		2480	-8.63	≤8.00	PASS
BLE_2M	Ant0	2402	-11.7	≤8.00	PASS
		2440	-9.68	≤8.00	PASS
		2480	-11.22	≤8.00	PASS

Note: This antenna is the worst



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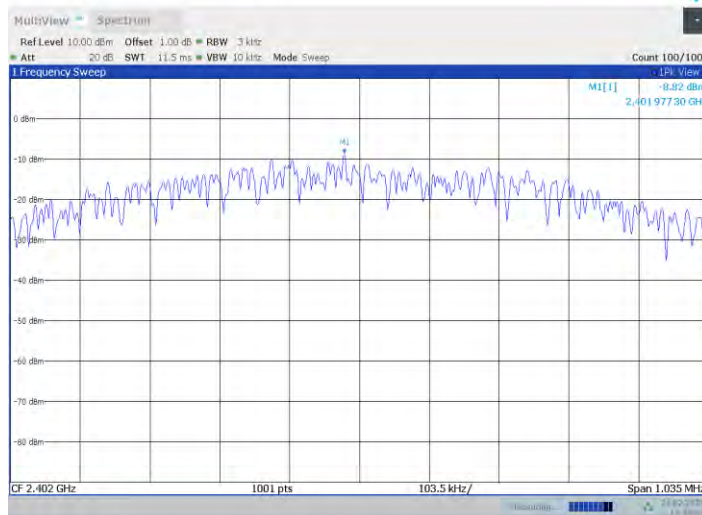
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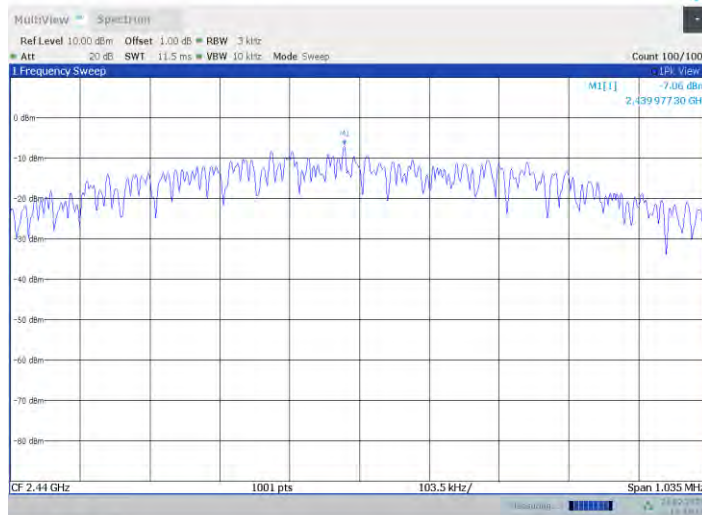
Test Graphs

BLE\_1M\_Ant0\_2402



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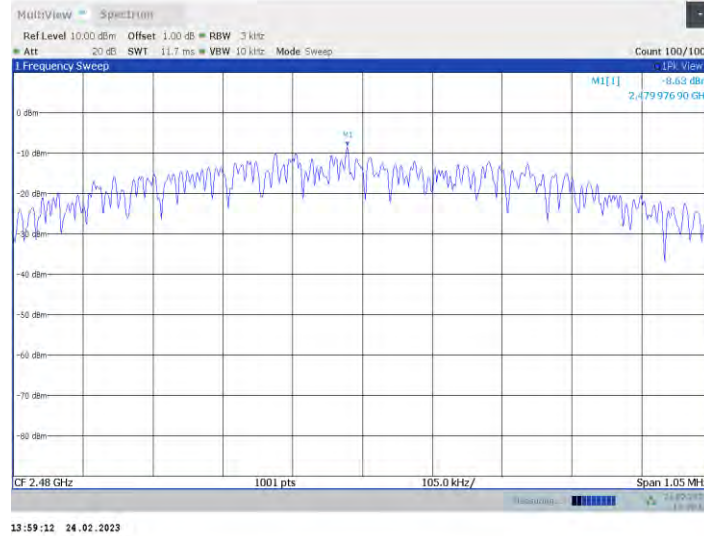


13:57:13 24.02.2023

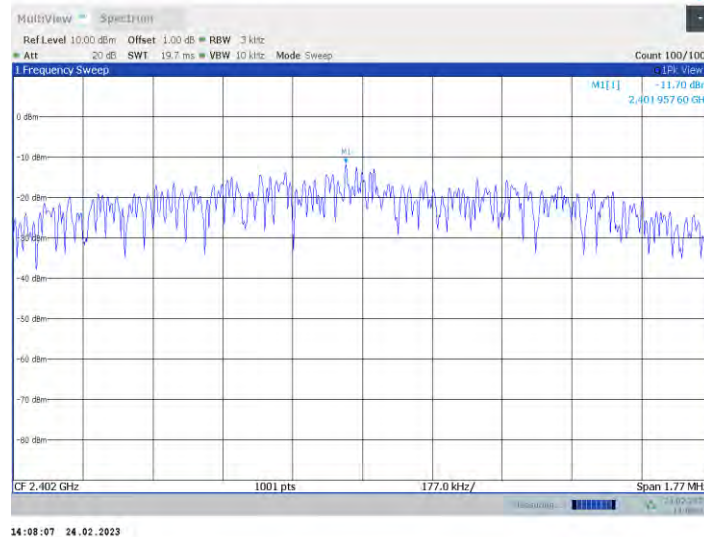


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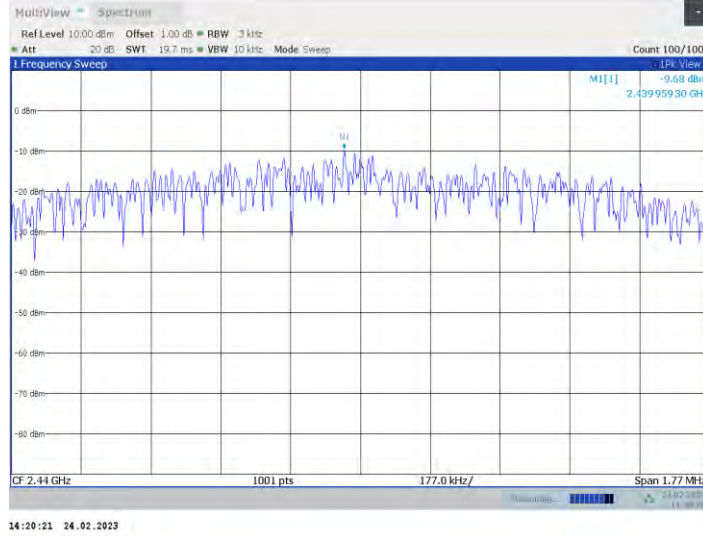
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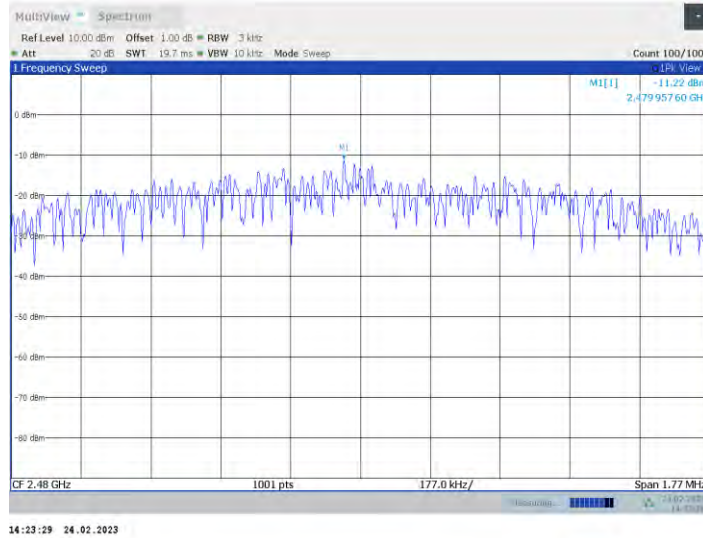
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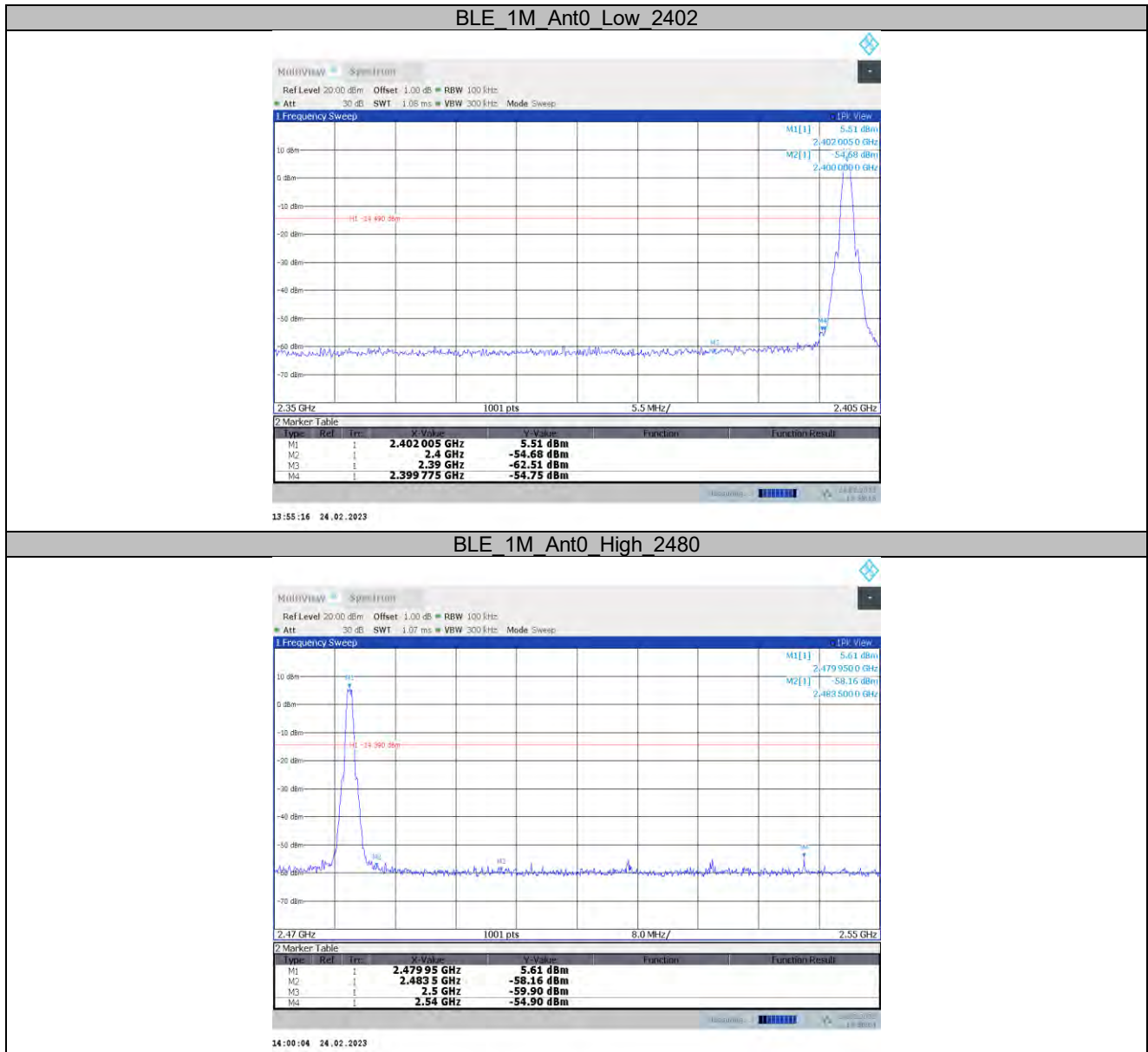


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### Band edge measurements Test Graphs

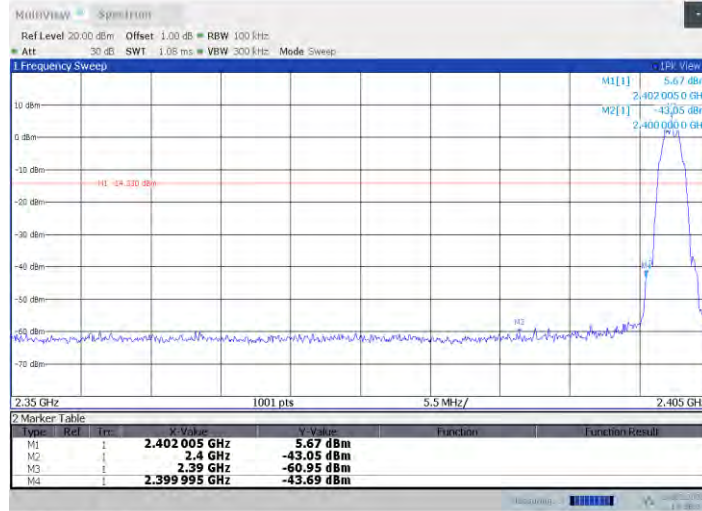


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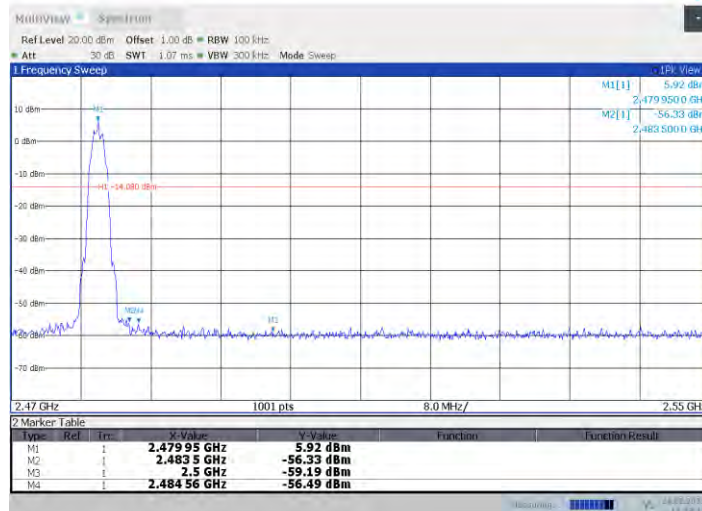
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BLE 2M Ant0 Low 2402



14:08:21 24.02.2023

BLE 2M Ant0 High 2480



14:23:44 24.02.2023

Note: This antenna is the worst

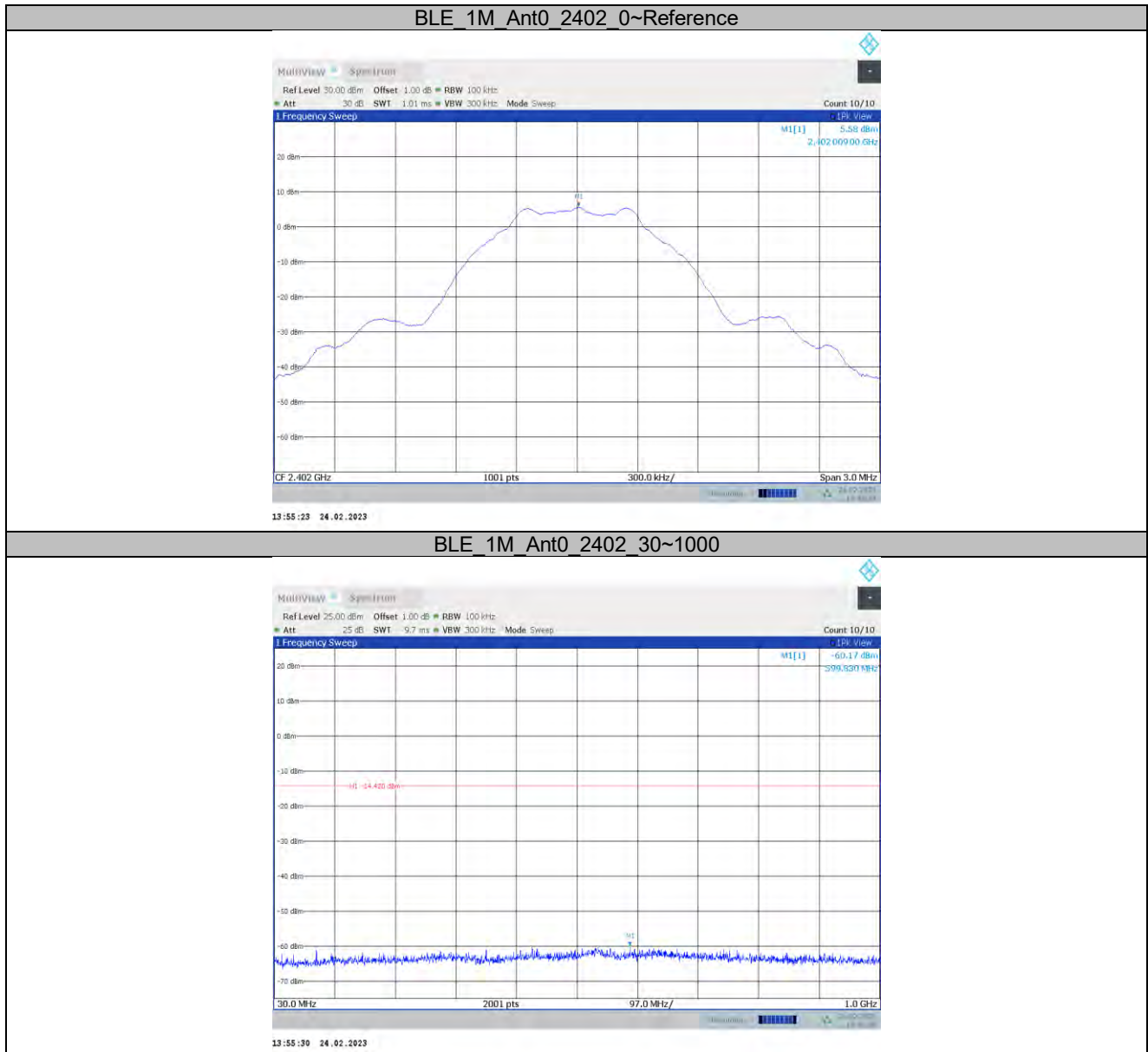


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## Conducted Spurious Emission Test Graphs



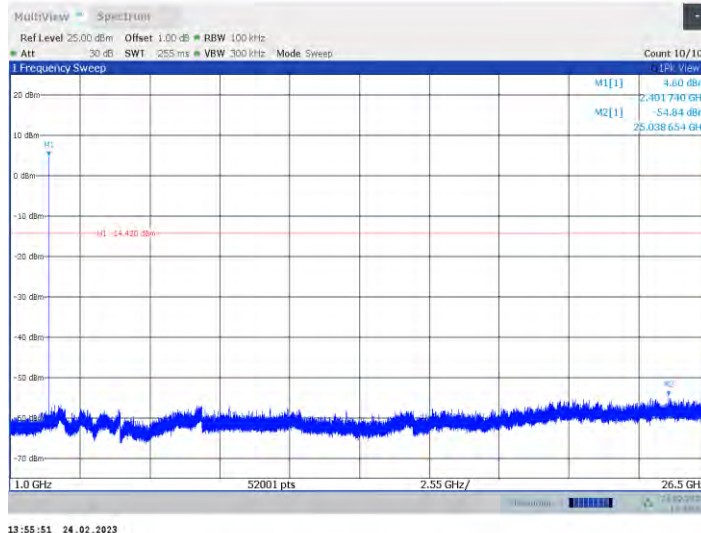
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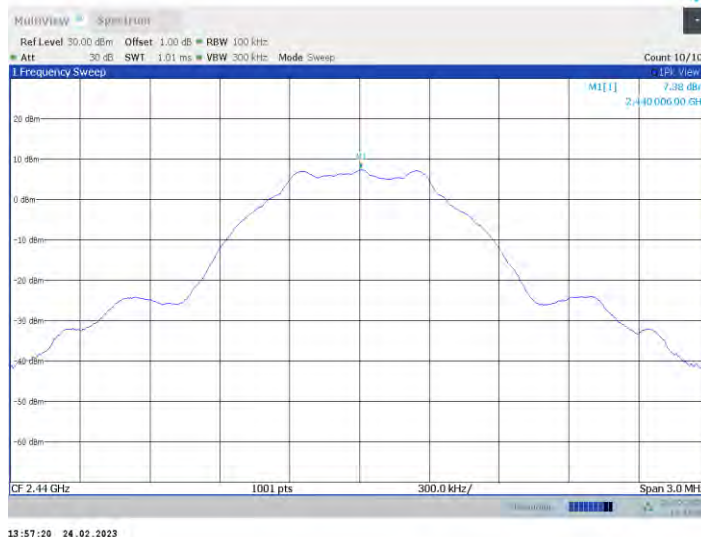
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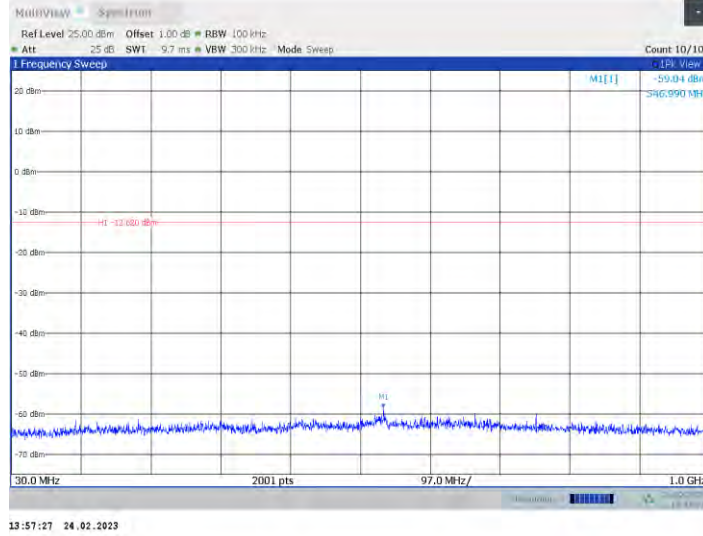


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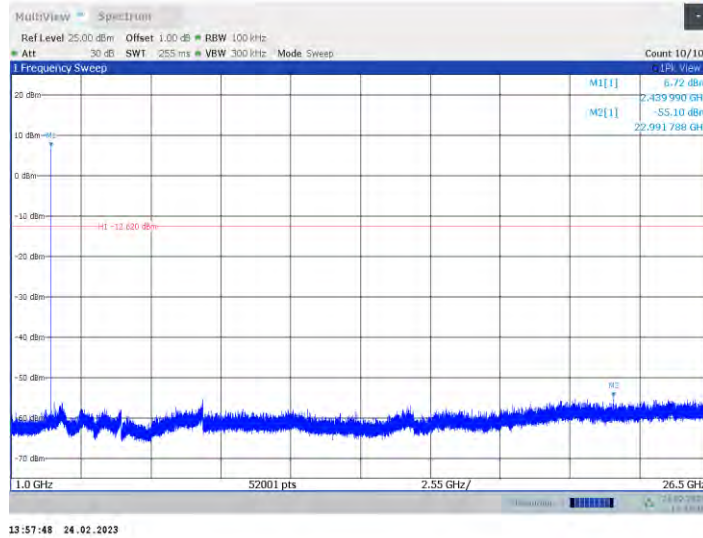
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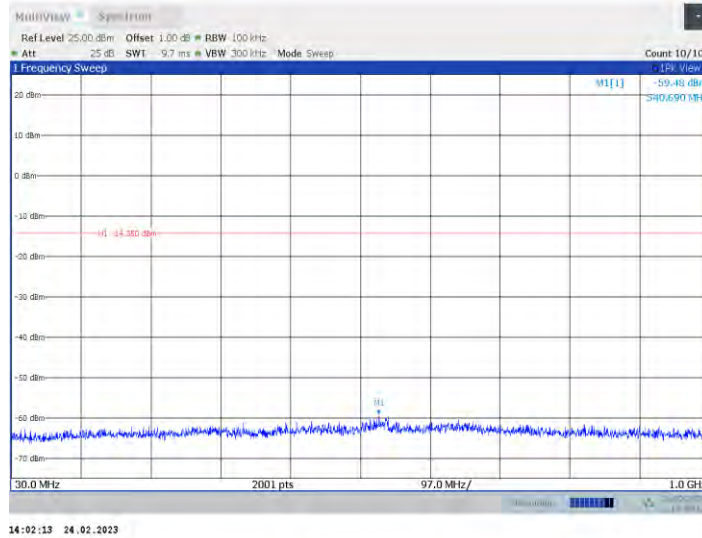
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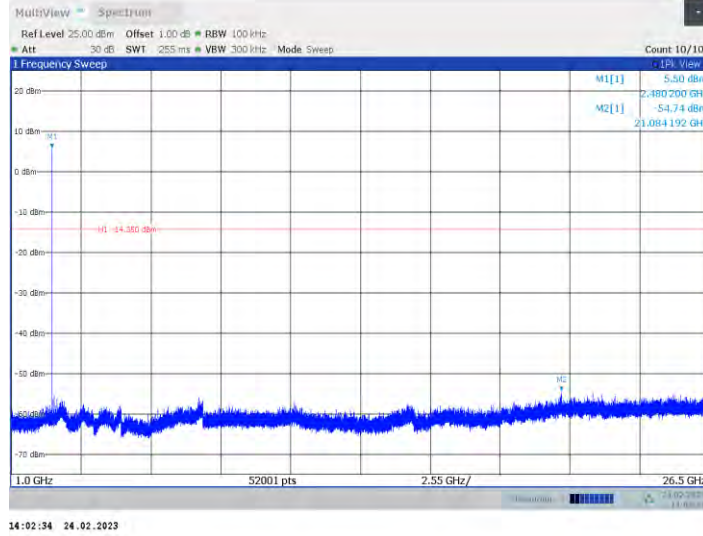
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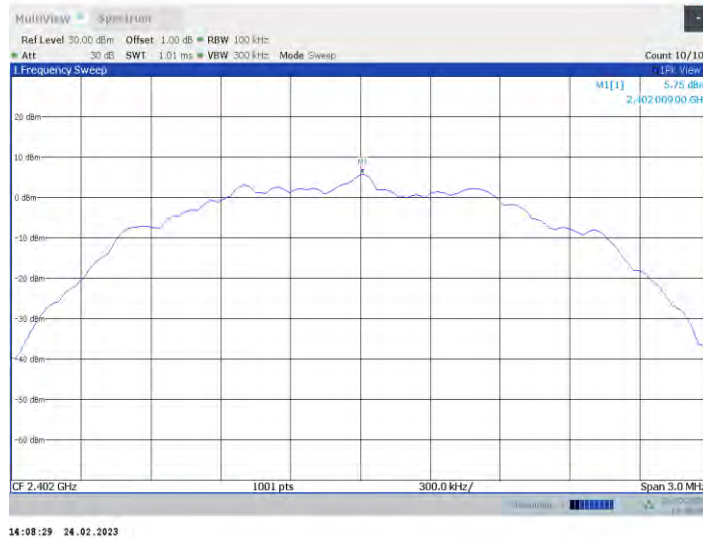
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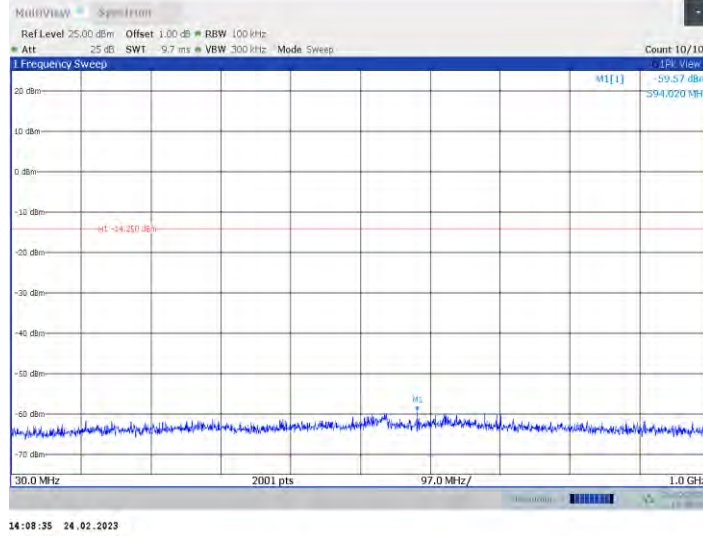
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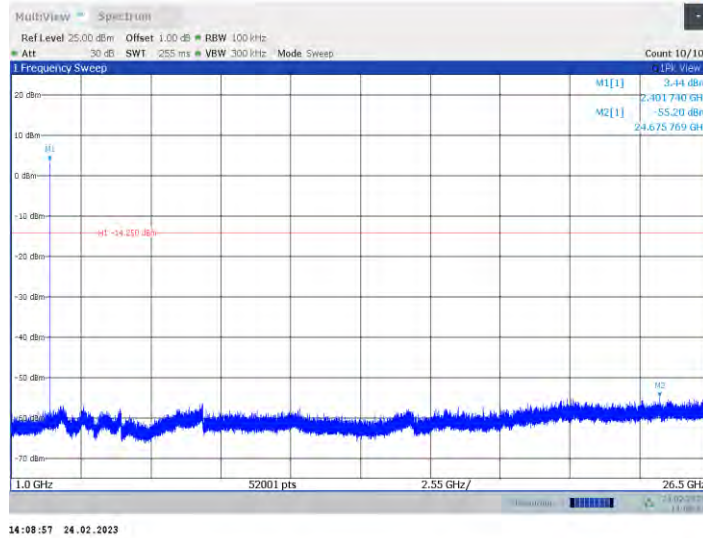
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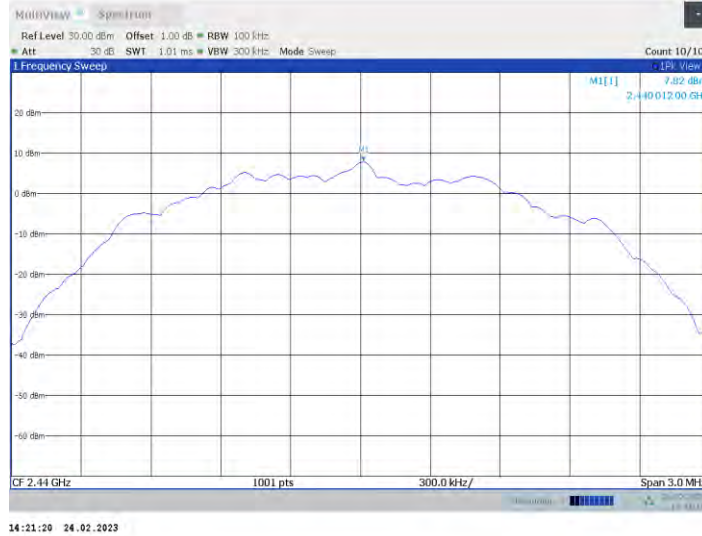


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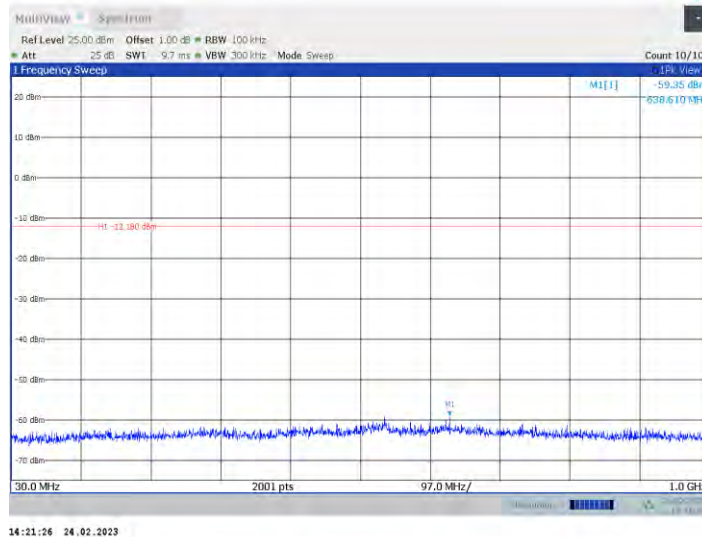
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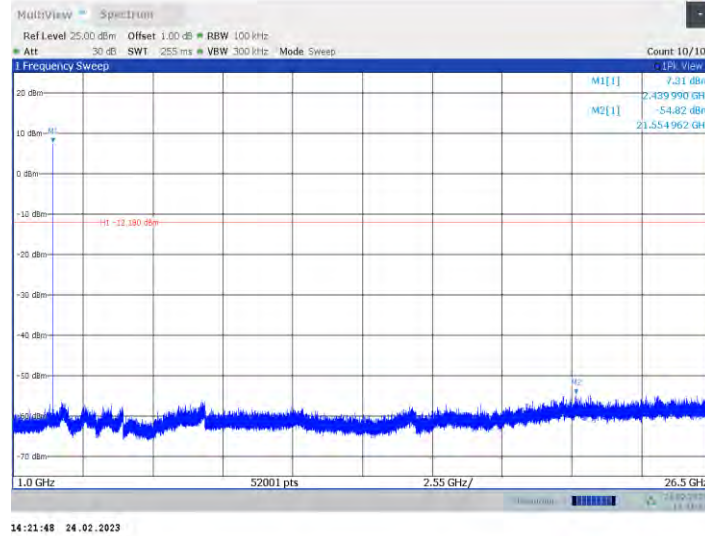
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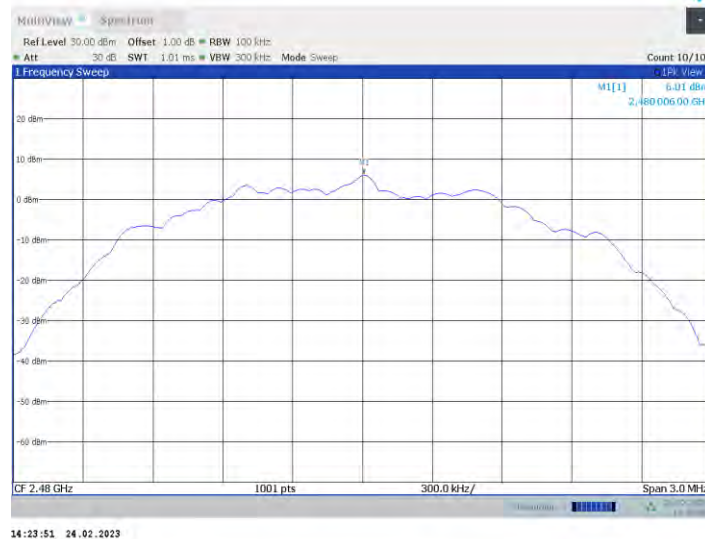
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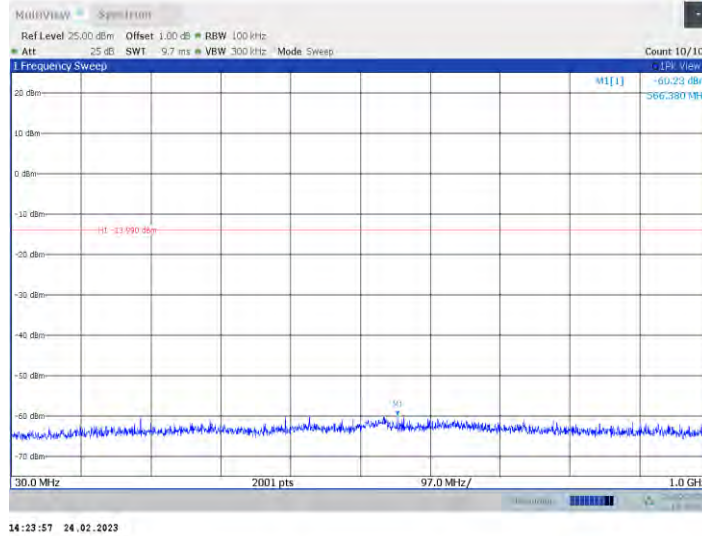
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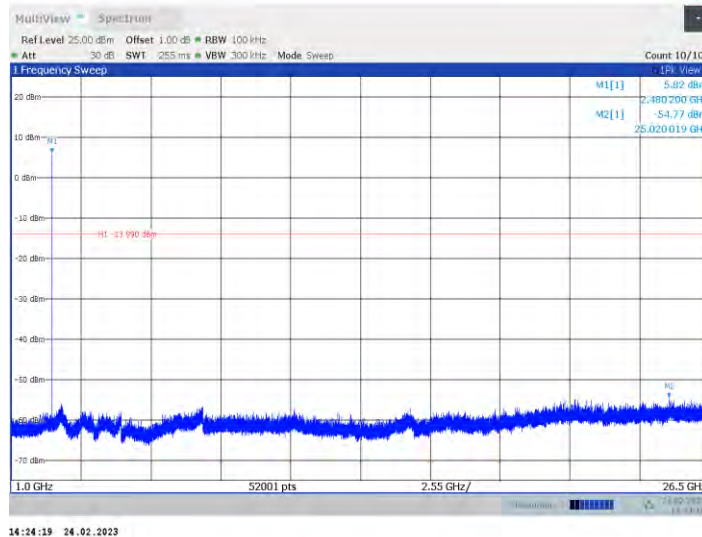
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BLE\_2M\_Ant0\_2480\_30~1000



BLE\_2M\_Ant0\_2480\_1000~26500



Note: This antenna is the worst



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Report No.: SEWM2302000047RG02

Rev.: 01

Page: 60 of 122

### Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant0	2402	0.39	0.63	61.90	2.08
	Ant1	2402	0.39	0.63	61.90	2.08
BLE_2M	Ant0	2402	0.20	0.62	32.26	4.91
	Ant1	2402	0.20	0.62	32.26	4.91

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.39	0.63	61.90	2.56410	3kHz
BLE_2M	0.20	0.62	32.26	5.00000	10kHz



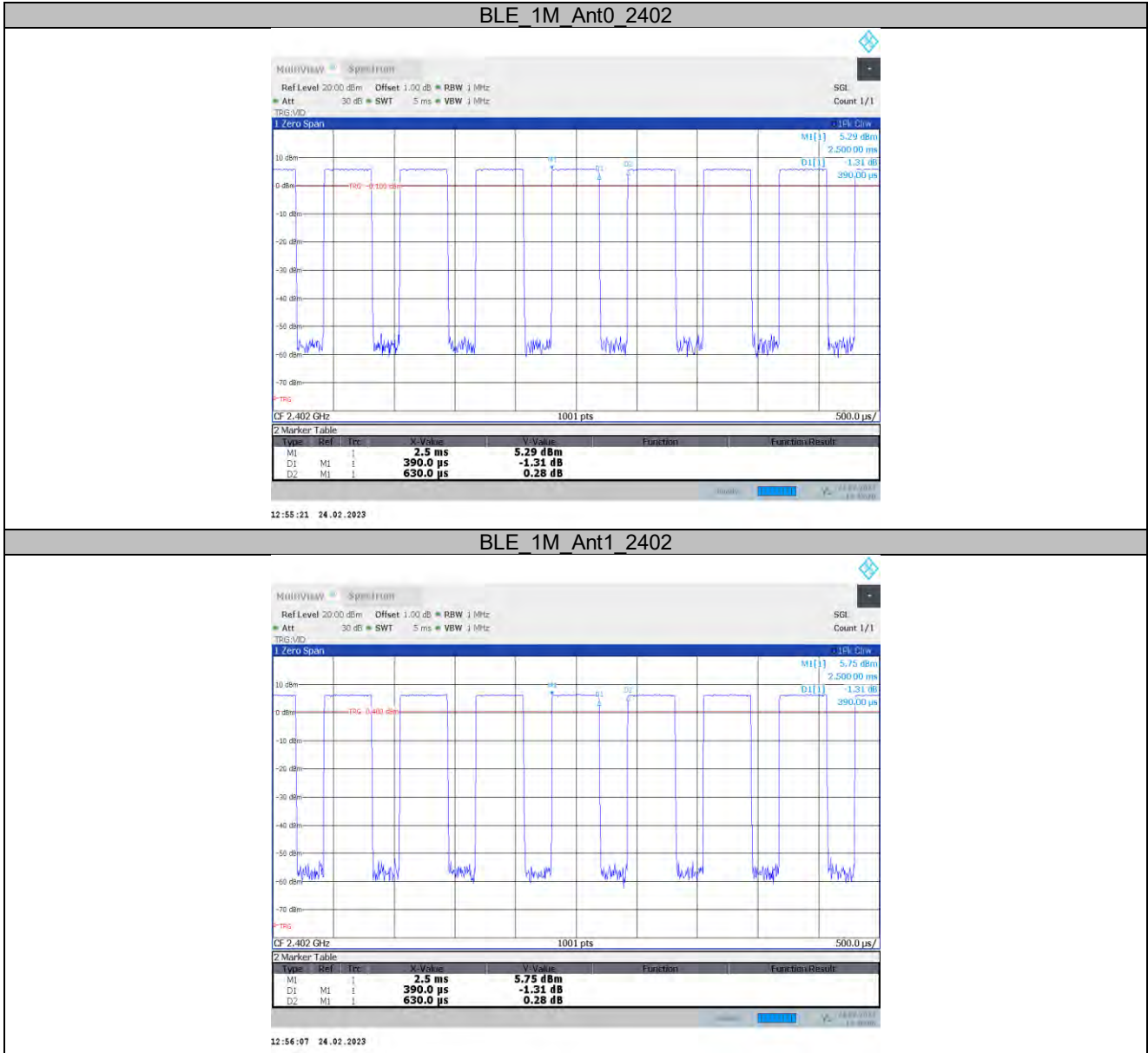
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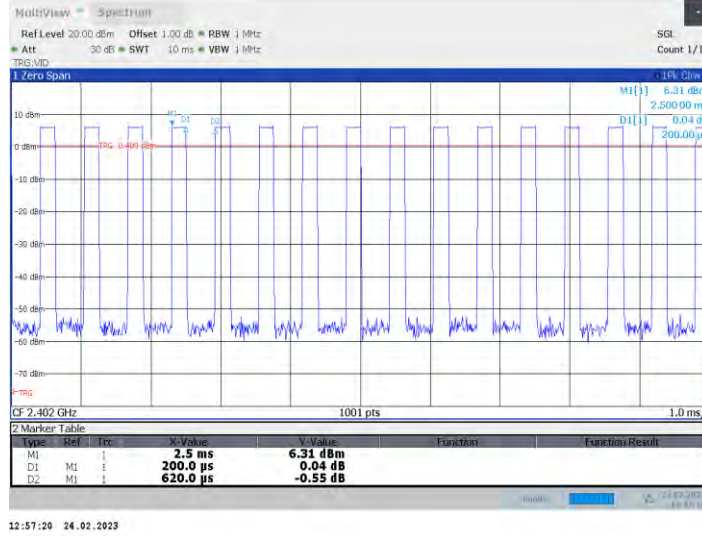
Test Graphs



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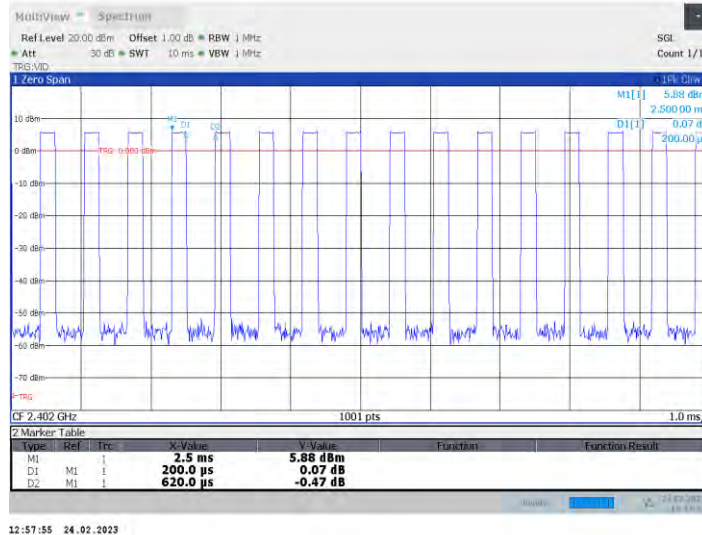
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BLE\_2M\_Ant0\_2402



12:57:20 24.02.2023

BLE\_2M\_Ant1\_2402



12:57:55 24.02.2023



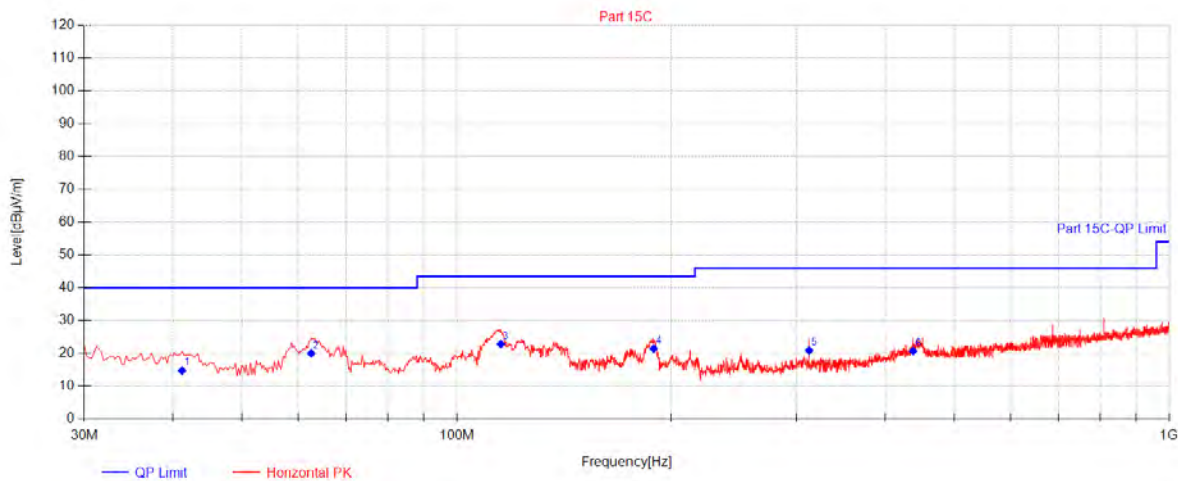
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**Radiated Spurious Emissions**  
**Radiated emission below 1GHz**

For Ant 0:

Worst case Mode: BLE 1M\_Channel 39



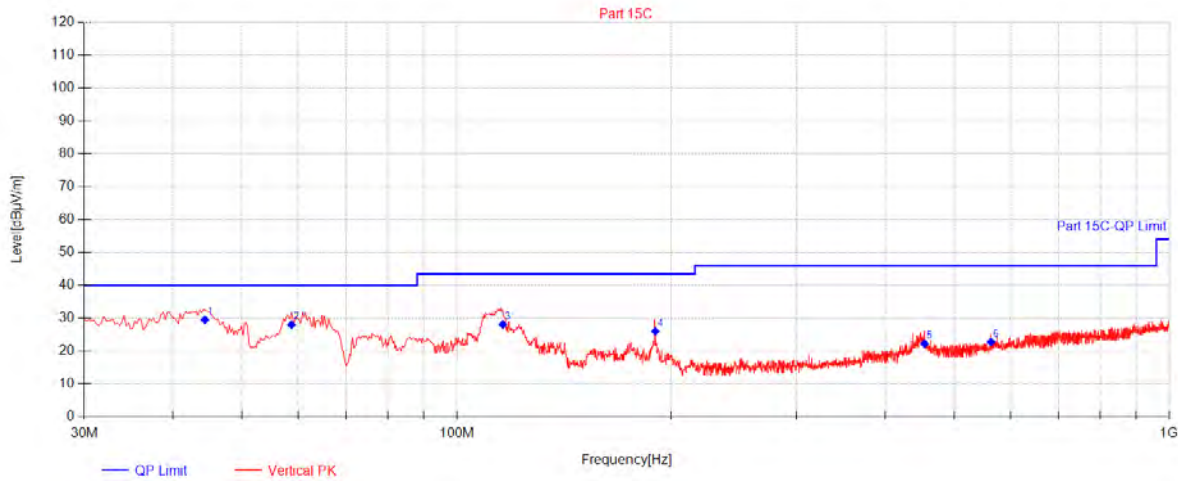
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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.155	37.02	-36.25	13.97	14.74	40.00	25.26	256	156	Horizontal
2	62.495	44.16	-36.43	12.27	20.00	40.00	20.00	142	146	Horizontal
3	115.36	47.26	-36.15	11.72	22.83	43.50	20.67	155	115	Horizontal
4	189.08	44.33	-35.40	12.51	21.44	43.50	22.06	186	249	Horizontal
5	312.5125	42.12	-34.29	13.06	20.89	46.00	25.11	256	239	Horizontal
6	437.4	38.59	-33.53	15.66	20.72	46.00	25.28	239	239	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.3075	52.03	-36.21	13.71	29.52	40.00	10.48	100	208	Vertical
2	58.615	51.56	-36.36	12.86	28.06	40.00	11.94	100	313	Vertical
3	116.0875	52.48	-36.15	11.81	28.14	43.50	15.36	100	313	Vertical
4	190.05	49.11	-35.42	12.28	25.97	43.50	17.53	100	208	Vertical
5	453.89	39.28	-33.08	16.01	22.21	46.00	23.79	100	282	Vertical
6	562.53	37.82	-32.72	17.62	22.73	46.00	23.27	100	126	Vertical



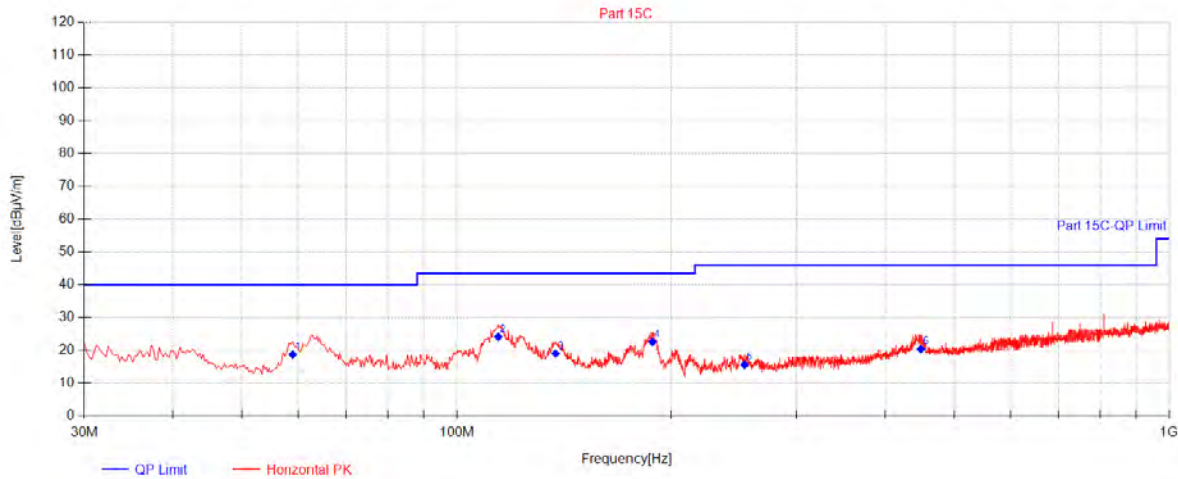
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For Ant 1(Worst):

Worst case Mode: BLE 1M\_Channel 39

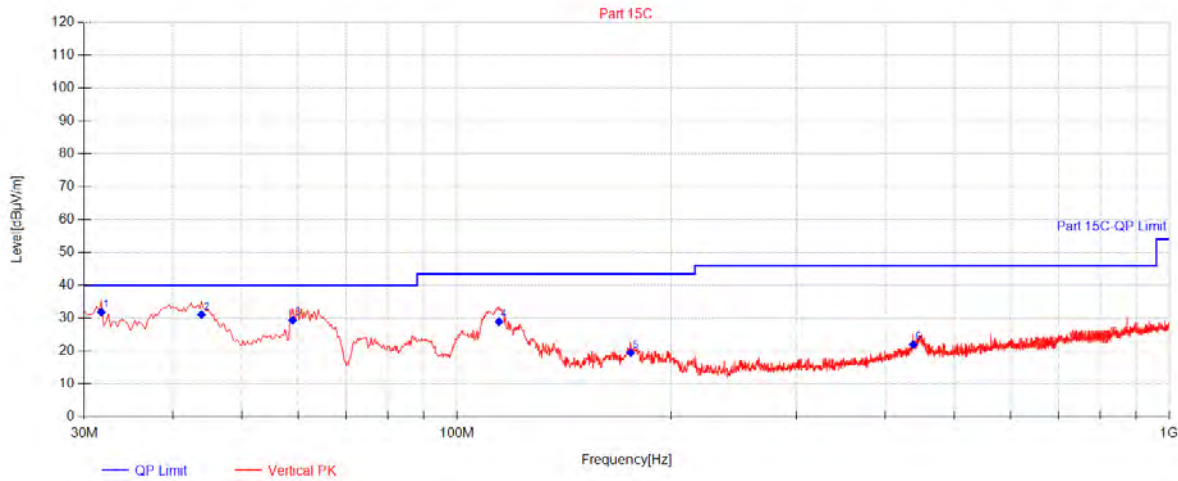


Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	58.8575	42.22	-36.37	12.84	18.69	40.00	21.31	156	162	Horizontal
2	114.39	48.61	-36.15	11.62	24.08	43.50	19.42	236	109	Horizontal
3	137.67	41.23	-35.57	13.34	19.00	43.50	24.50	251	202	Horizontal
4	188.3525	45.26	-35.39	12.68	22.56	43.50	20.94	145	266	Horizontal
5	253.585	38.16	-34.23	11.66	15.59	46.00	30.41	188	68	Horizontal
6	448.555	37.56	-33.10	15.93	20.40	46.00	25.60	196	130	Horizontal



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Data List										
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1	31.6975	55.16	-36.63	13.28	31.81	40.00	8.19	211	356	Vertical
2	43.8225	53.56	-36.22	13.75	31.09	40.00	8.91	236	215	Vertical
3	58.8575	52.91	-36.37	12.84	29.38	40.00	10.62	261	308	Vertical
4	114.6325	53.46	-36.15	11.64	28.95	43.50	14.55	145	318	Vertical
5	175.5	40.03	-35.19	14.56	19.40	43.50	24.10	195	164	Vertical
6	437.4	39.81	-33.53	15.66	21.94	46.00	24.06	113	277	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:  
 Value = Reading(dBμV) + AF(dB/m) + Factor(dB):  
 AF = Antenna Factor(dB/m)  
 Factor = Cable Factor(dB) - Preamplifier gain(dB)  
 Margin = Limit(dBμV/m) – Value(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.



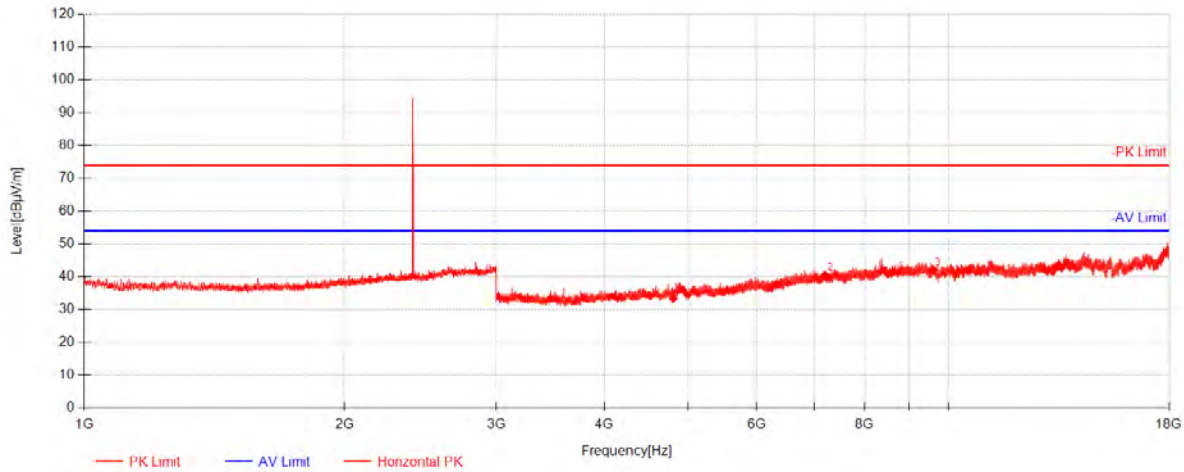
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### Transmitter emission Above 1GHz

For Ant 0:

BLE 1M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	46.49	32.33	-45.54	33.28	74.00	40.72	186	150	Horizontal
2	7206.0000	47.22	36.60	-43.44	40.38	74.00	33.62	236	1	Horizontal
3	9608.0000	43.33	38.43	-39.65	42.11	74.00	31.89	295	275	Horizontal

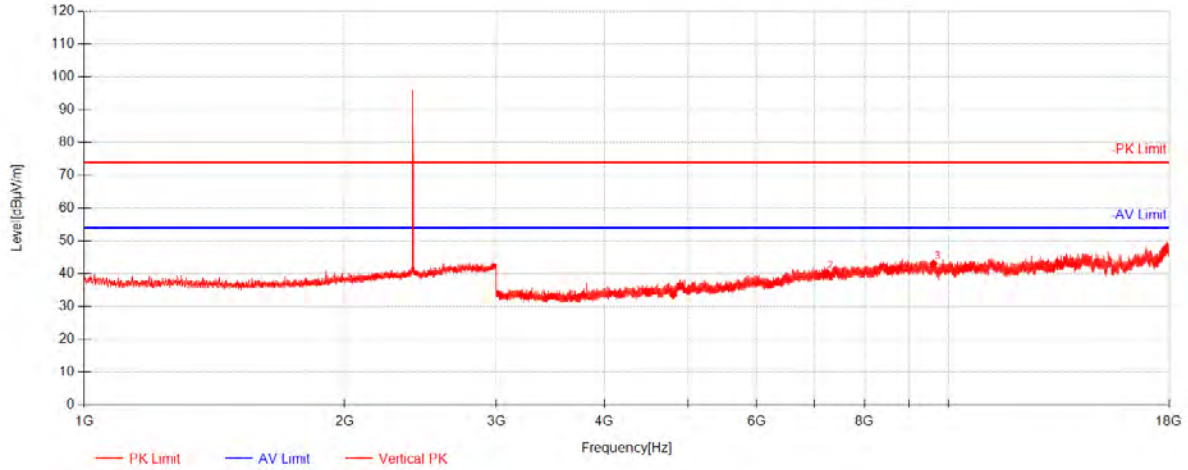


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BLE 1M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	46.74	32.33	-45.54	33.53	74.00	40.47	174	336	Vertical
2	7206.0000	47.02	36.60	-43.44	40.18	74.00	33.82	236	20	Vertical
3	9608.0000	44.30	38.43	-39.65	43.08	74.00	30.92	152	147	Vertical

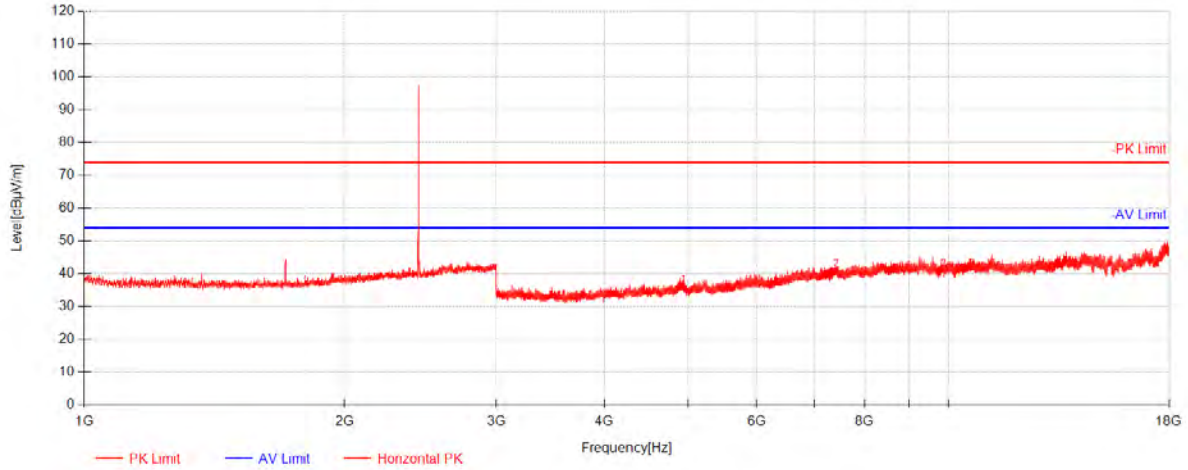


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BLE 1M\_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	48.95	32.54	-45.53	35.96	74.00	38.04	179	42	Horizontal
2	7320.0000	47.89	36.53	-43.68	40.74	74.00	33.26	263	62	Horizontal
3	9760.0000	42.03	38.26	-39.46	40.83	74.00	33.17	195	336	Horizontal

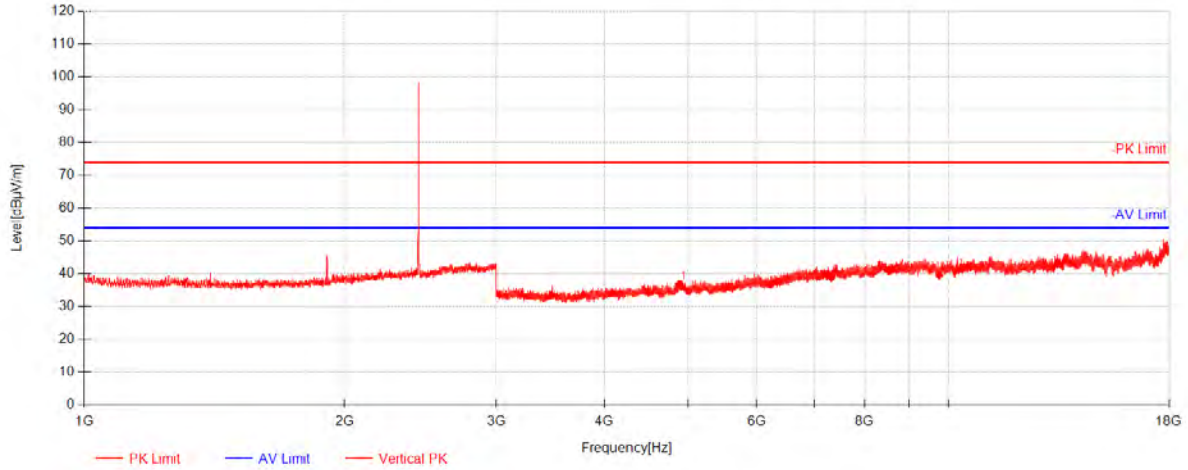


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BLE 1M\_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.83	32.54	-45.53	36.84	74.00	37.16	297	23	Vertical
2	7320.0000	45.97	36.53	-43.68	38.82	74.00	35.18	146	338	Vertical
3	9760.0000	40.71	38.26	-39.46	39.51	74.00	34.49	213	106	Vertical

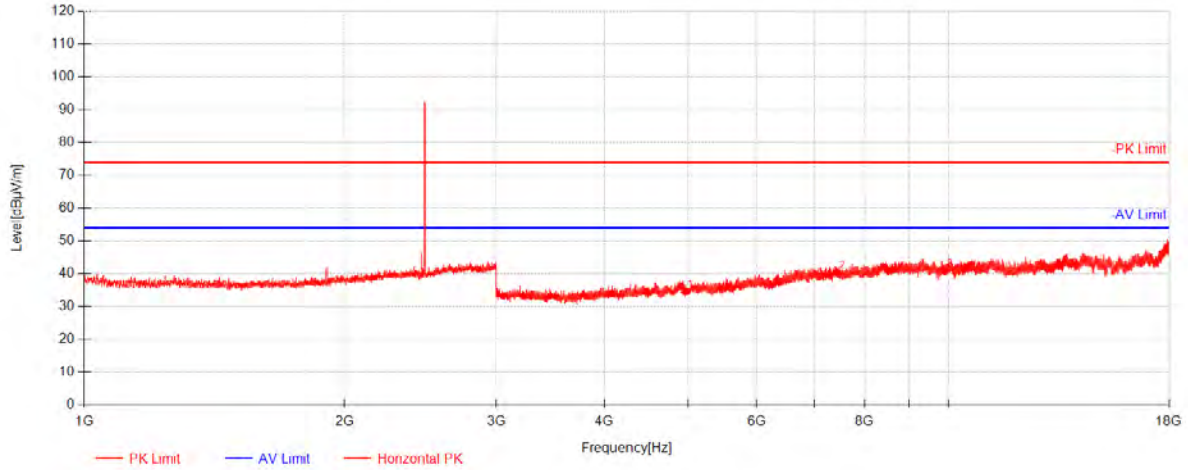


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	47.25	32.77	-45.60	34.42	74.00	39.58	162	1	Horizontal
2	7440.0000	47.04	36.47	-43.30	40.21	74.00	33.79	267	65	Horizontal
3	9920.0000	41.72	38.38	-39.31	40.79	74.00	33.21	158	0	Horizontal

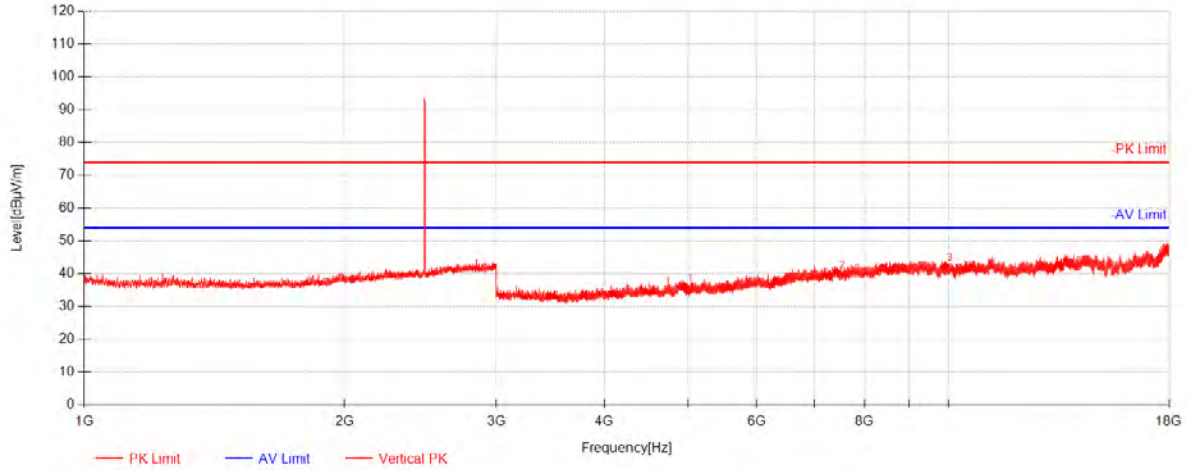


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1	4960.0000	48.93	32.77	-45.60	36.10	74.00	37.90	163	190	Vertical
2	7440.0000	47.10	36.47	-43.30	40.27	74.00	33.73	234	59	Vertical
3	9920.0000	43.41	38.38	-39.31	42.48	74.00	31.52	149	84	Vertical



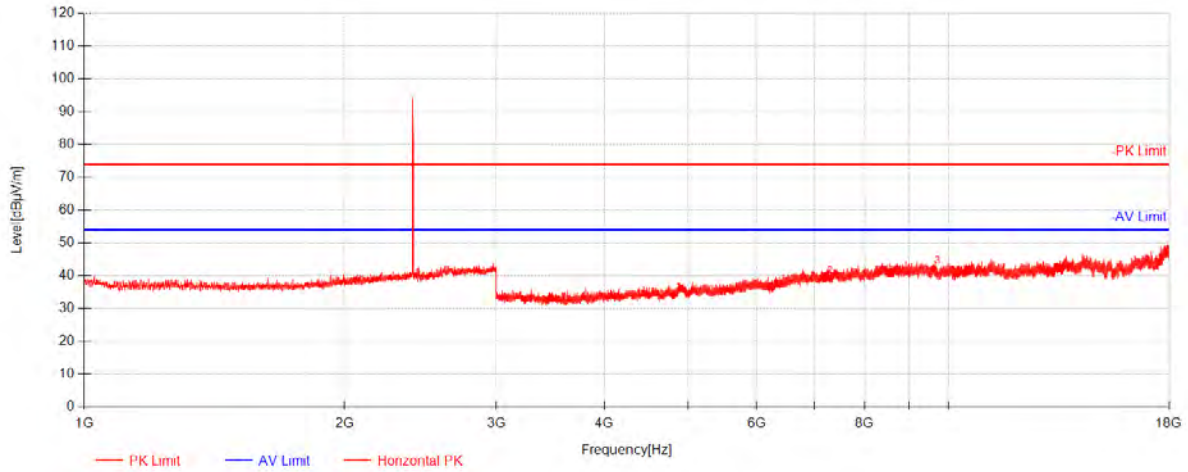
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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.28	32.33	-45.54	34.07	74.00	39.93	174	253	Horizontal
2	7206.0000	46.13	36.60	-43.44	39.29	74.00	34.71	198	315	Horizontal
3	9608.0000	43.42	38.43	-39.65	42.20	74.00	31.80	251	44	Horizontal

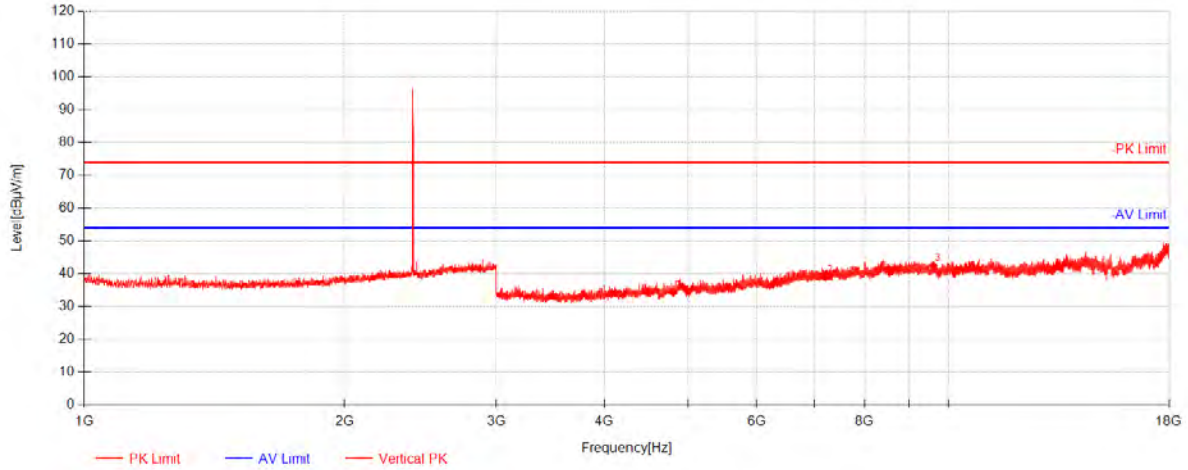


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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.46	32.33	-45.54	34.25	74.00	39.75	162	171	Vertical
2	7206.0000	45.85	36.60	-43.44	39.01	74.00	34.99	235	232	Vertical
3	9608.0000	43.70	38.43	-39.65	42.48	74.00	31.52	284	276	Vertical

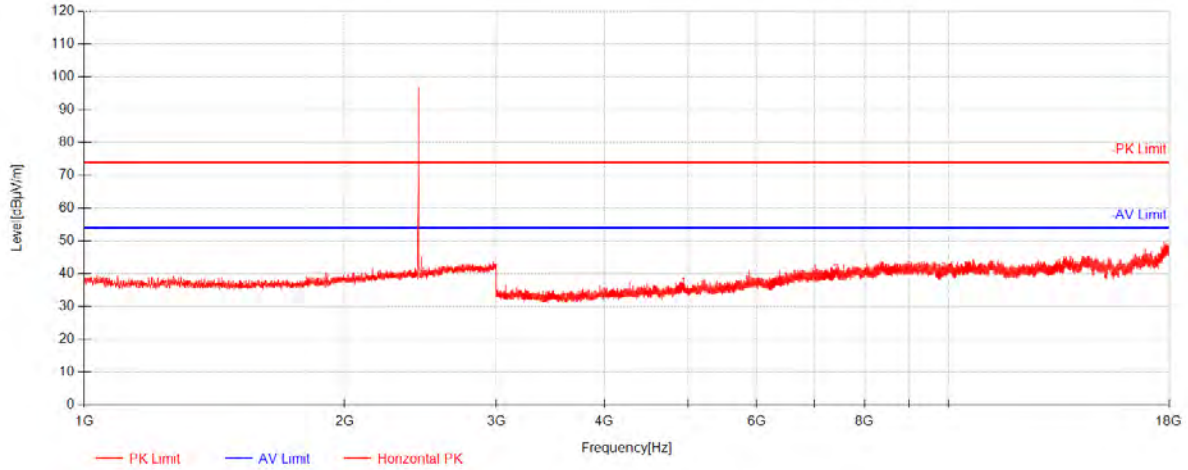


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	48.06	32.54	-45.53	35.07	74.00	38.93	128	250	Horizontal
2	7320.0000	46.22	36.53	-43.68	39.07	74.00	34.93	239	0	Horizontal
3	9760.0000	40.77	38.26	-39.46	39.57	74.00	34.43	271	208	Horizontal

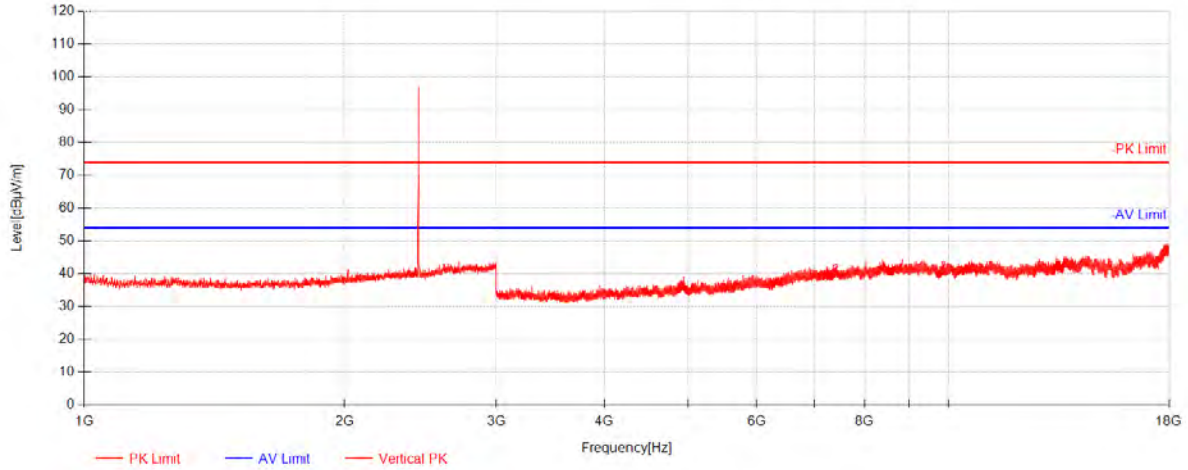


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1	4880.0000	48.38	32.54	-45.53	35.39	74.00	38.61	152	0	Vertical
2	7320.0000	46.30	36.53	-43.68	39.15	74.00	34.85	239	252	Vertical
3	9760.0000	41.10	38.26	-39.46	39.90	74.00	34.10	284	338	Vertical

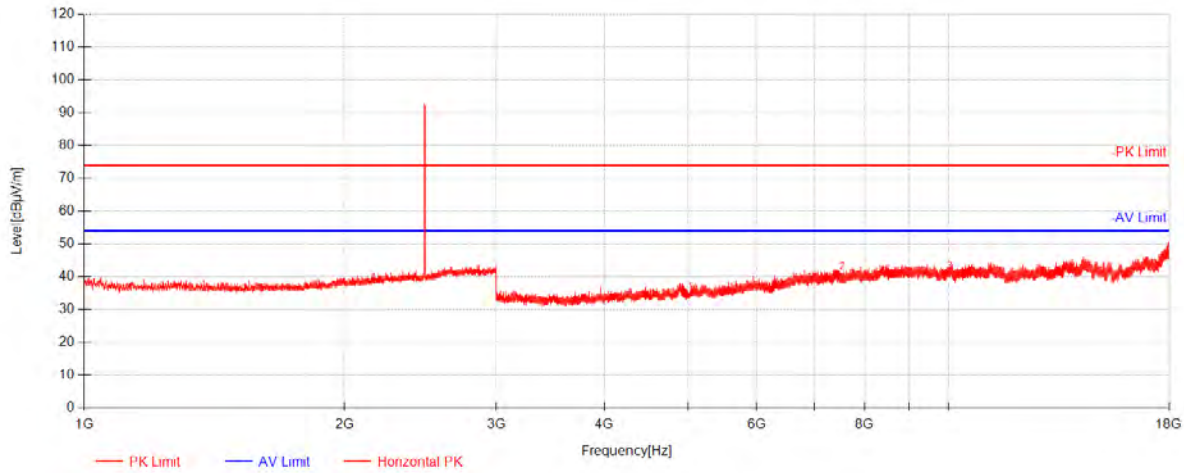


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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	47.43	32.77	-45.60	34.60	74.00	39.40	154	192	Horizontal
2	7440.0000	47.47	36.47	-43.30	40.64	74.00	33.36	265	24	Horizontal
3	9920.0000	41.94	38.38	-39.31	41.01	74.00	32.99	221	233	Horizontal

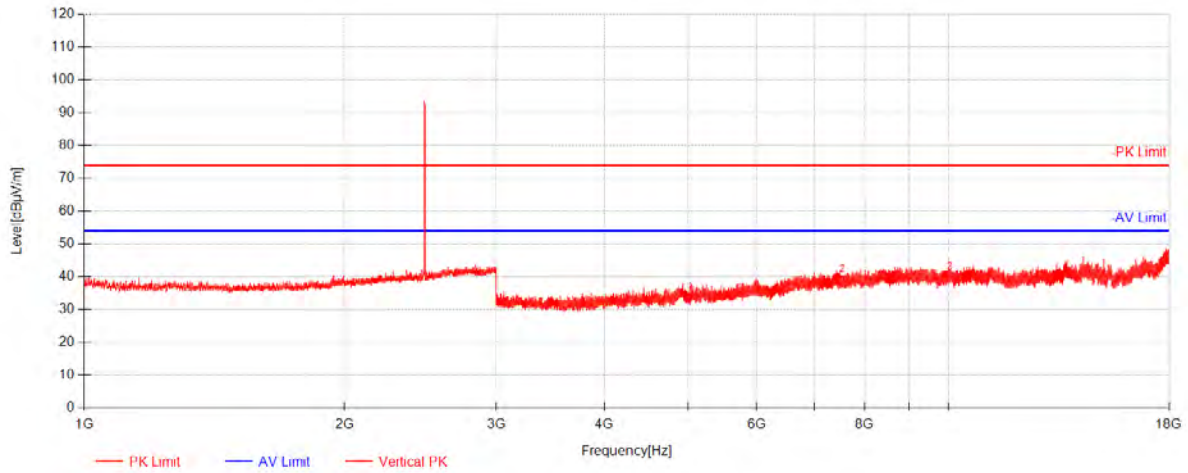


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1	4960.0000	47.48	32.77	-45.60	34.65	74.00	39.35	185	357	Vertical
2	7440.0000	46.79	36.47	-43.30	39.96	74.00	34.04	205	317	Vertical
3	9920.0000	41.53	38.38	-39.31	40.60	74.00	33.40	139	317	Vertical



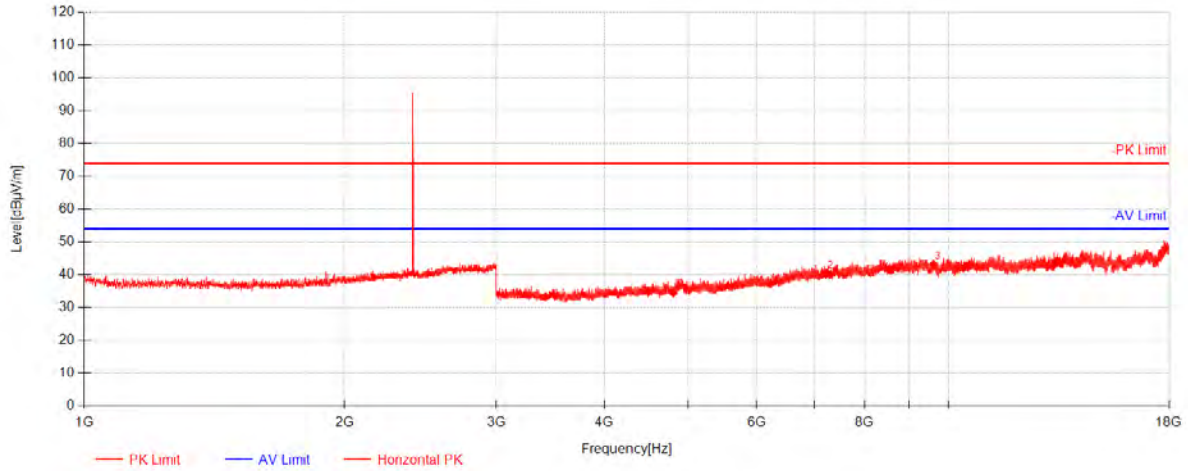
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**For Ant 1(Worst):**

**BLE 1M\_Channel 00**



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.59	32.33	-45.54	34.38	74.00	39.62	238	296	Horizontal
2	7206.0000	47.32	36.60	-43.44	40.48	74.00	33.52	159	170	Horizontal
3	9608.0000	44.48	38.43	-39.65	43.26	74.00	30.74	241	148	Horizontal

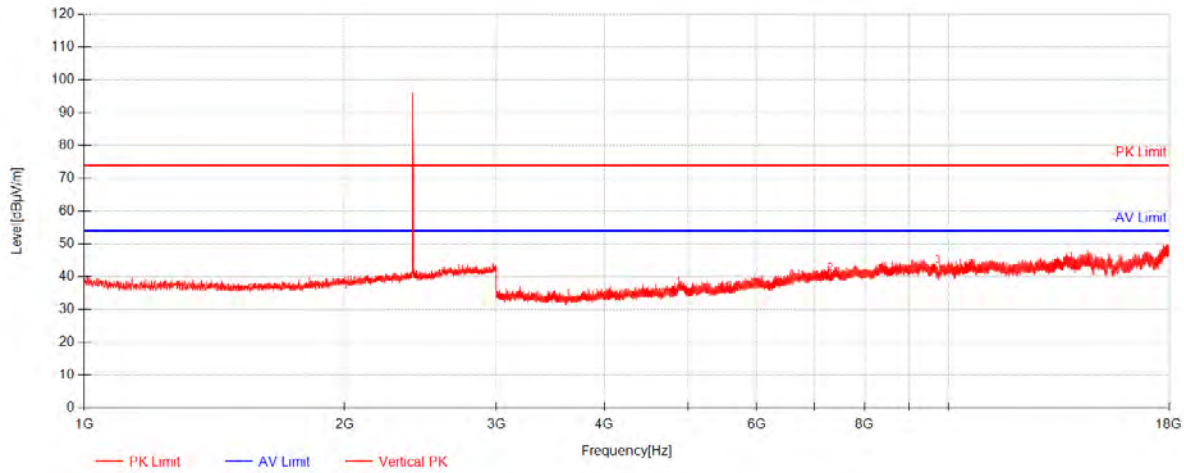


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BLE 1M\_Channel 00



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1	4804.0000	49.23	32.33	-45.54	36.02	74.00	37.98	168	44	Vertical
2	7206.0000	47.35	36.60	-43.44	40.51	74.00	33.49	259	0	Vertical
3	9608.0000	43.95	38.43	-39.65	42.73	74.00	31.27	205	317	Vertical



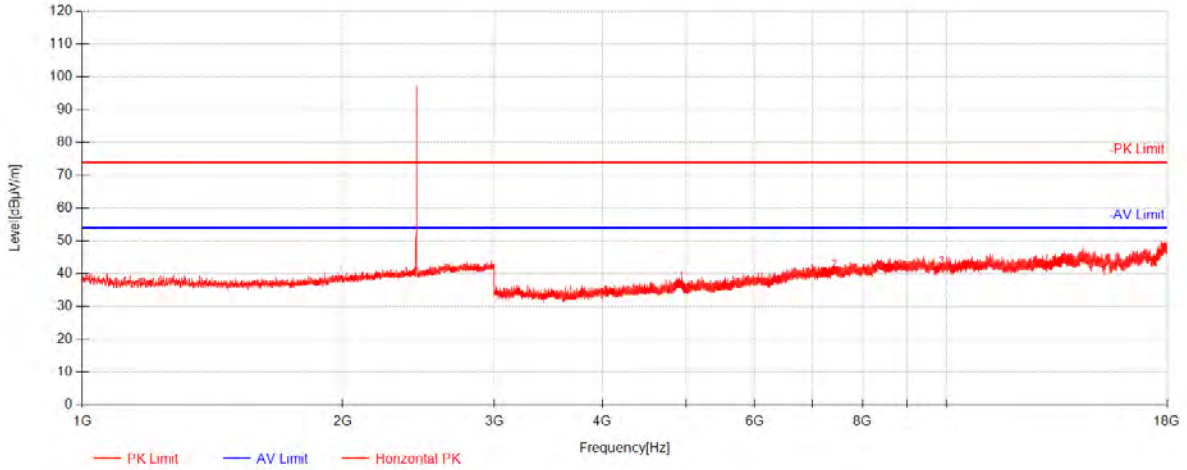
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1	4880.0000	49.94	32.54	-45.53	36.95	74.00	37.05	156	336	Horizontal
2	7320.0000	47.57	36.53	-43.68	40.42	74.00	33.58	293	336	Horizontal
3	9760.0000	42.63	38.26	-39.46	41.43	74.00	32.57	231	23	Horizontal

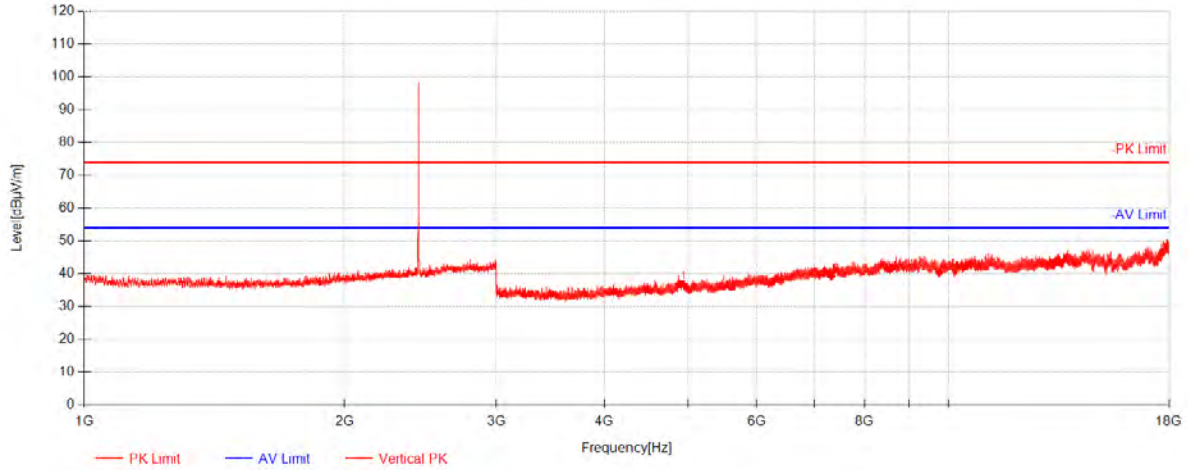


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1	4880.0000	49.86	32.54	-45.53	36.87	74.00	37.13	174	210	Vertical
2	7320.0000	46.46	36.53	-43.68	39.31	74.00	34.69	215	43	Vertical
3	9760.0000	41.56	38.26	-39.46	40.36	74.00	33.64	286	190	Vertical

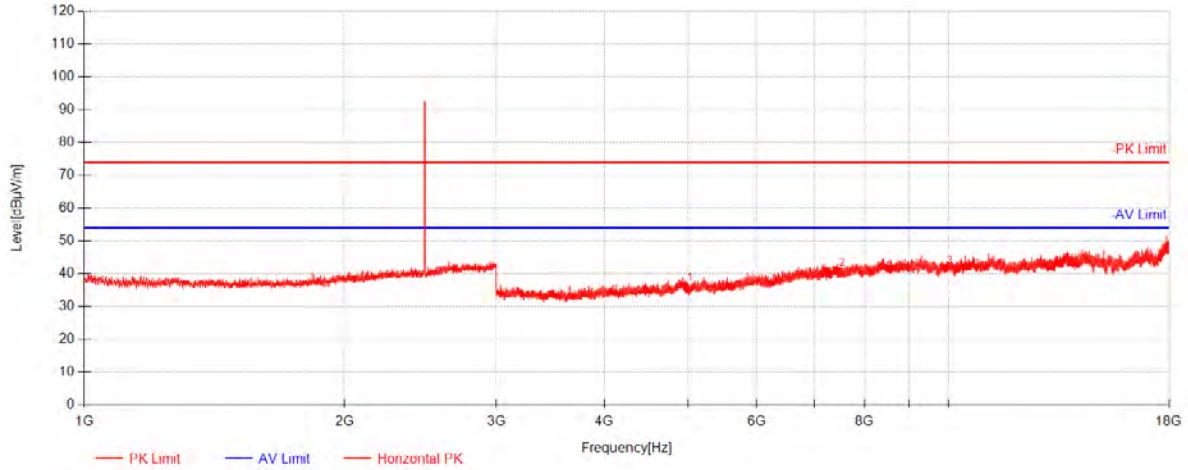


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Data List										
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1	4960.0000	49.28	32.77	-45.60	36.45	74.00	37.55	182	127	Horizontal
2	7440.0000	47.91	36.47	-43.30	41.08	74.00	32.92	235	294	Horizontal
3	9920.0000	42.67	38.38	-39.31	41.74	74.00	32.26	167	168	Horizontal

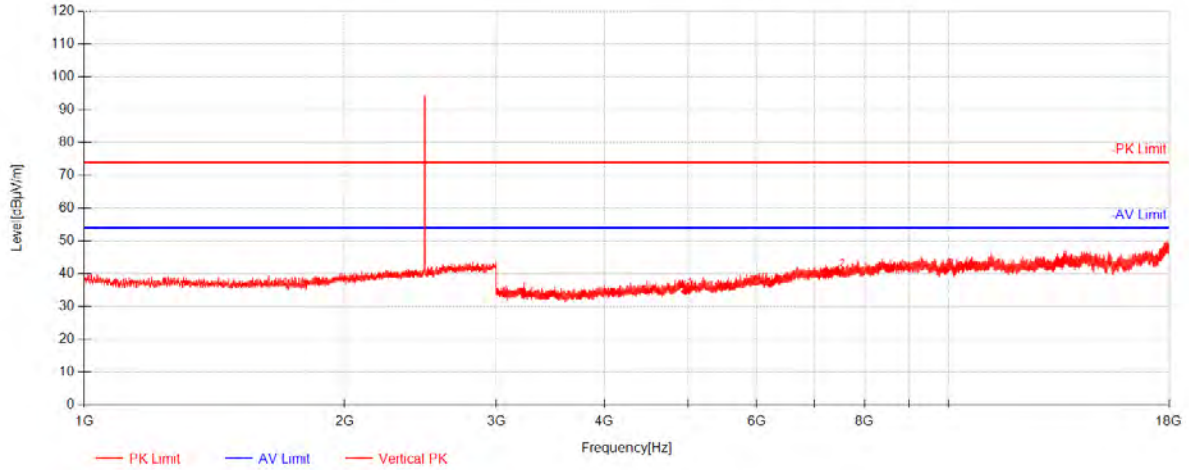


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1	4960.0000	47.53	32.77	-45.60	34.70	74.00	39.30	239	129	Vertical
2	7440.0000	47.50	36.47	-43.30	40.67	74.00	33.33	181	275	Vertical
3	9920.0000	41.91	38.38	-39.31	40.98	74.00	33.02	275	253	Vertical

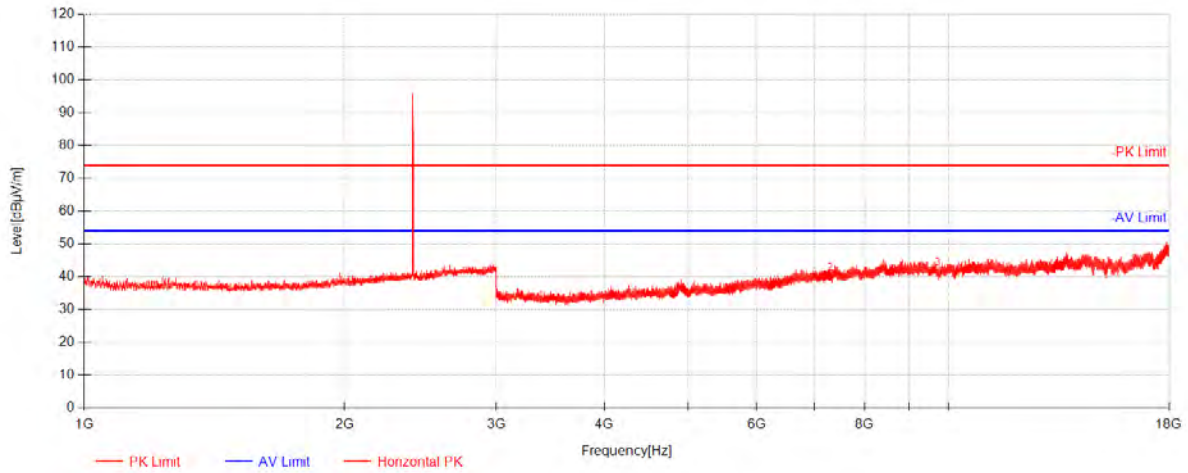


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BLE 2M\_Channel 00



Data List										
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1	4804.0000	47.80	32.33	-45.54	34.59	74.00	39.41	184	274	Horizontal
2	7206.0000	47.39	36.60	-43.44	40.55	74.00	33.45	162	294	Horizontal
3	9608.0000	43.26	38.43	-39.65	42.04	74.00	31.96	236	0	Horizontal

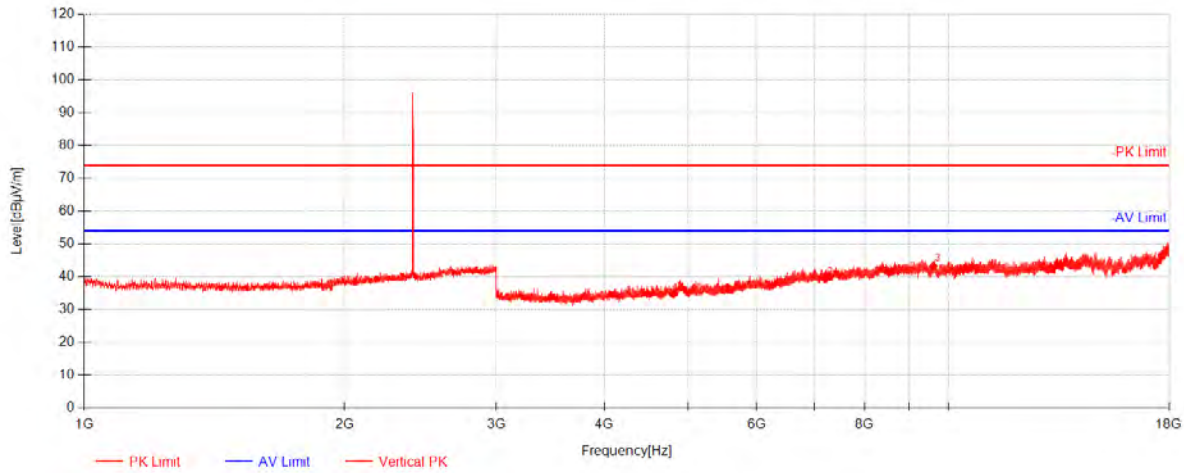


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1	4804.0000	47.81	32.33	-45.54	34.60	74.00	39.40	215	233	Vertical
2	7206.0000	46.09	36.60	-43.44	39.25	74.00	34.75	183	191	Vertical
3	9608.0000	44.55	38.43	-39.65	43.33	74.00	30.67	233	274	Vertical

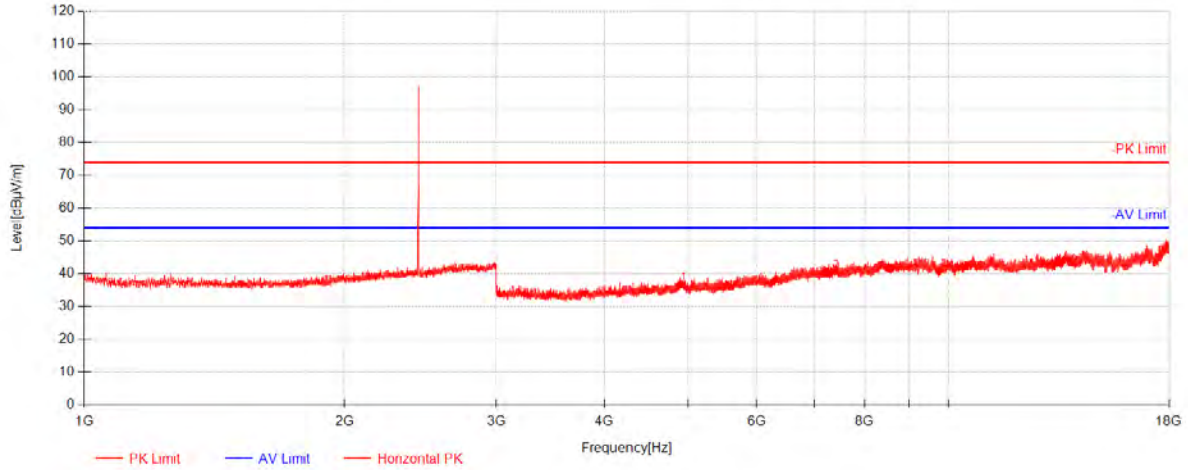


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1	4880.0000	49.48	32.54	-45.53	36.49	74.00	37.51	147	232	Horizontal
2	7320.0000	47.64	36.53	-43.68	40.49	74.00	33.51	215	253	Horizontal
3	9760.0000	41.91	38.26	-39.46	40.71	74.00	33.29	268	0	Horizontal

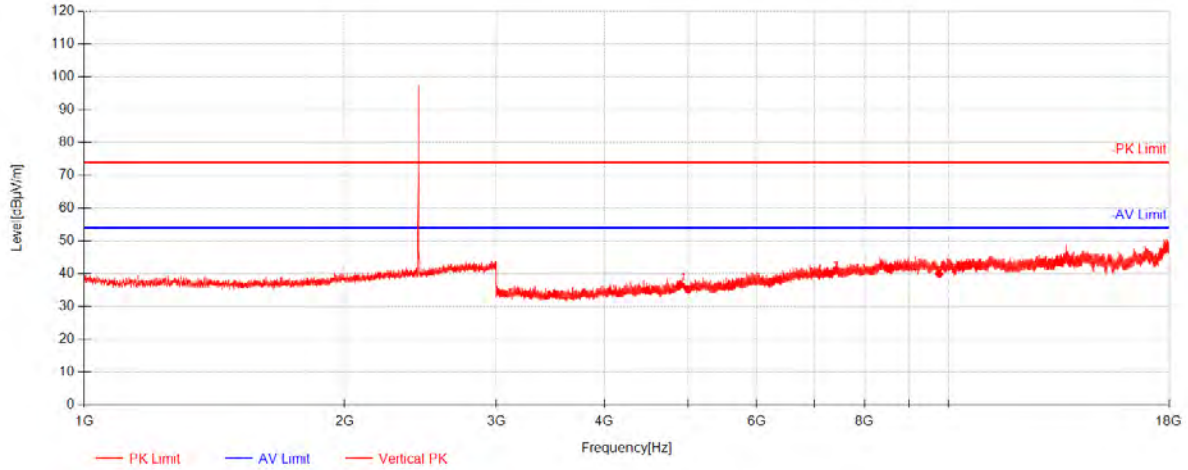


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1	4880.0000	49.25	32.54	-45.53	36.26	74.00	37.74	156	315	Vertical
2	7320.0000	47.15	36.53	-43.68	40.00	74.00	34.00	297	7	Vertical
3	9760.0000	41.08	38.26	-39.46	39.88	74.00	34.12	213	357	Vertical



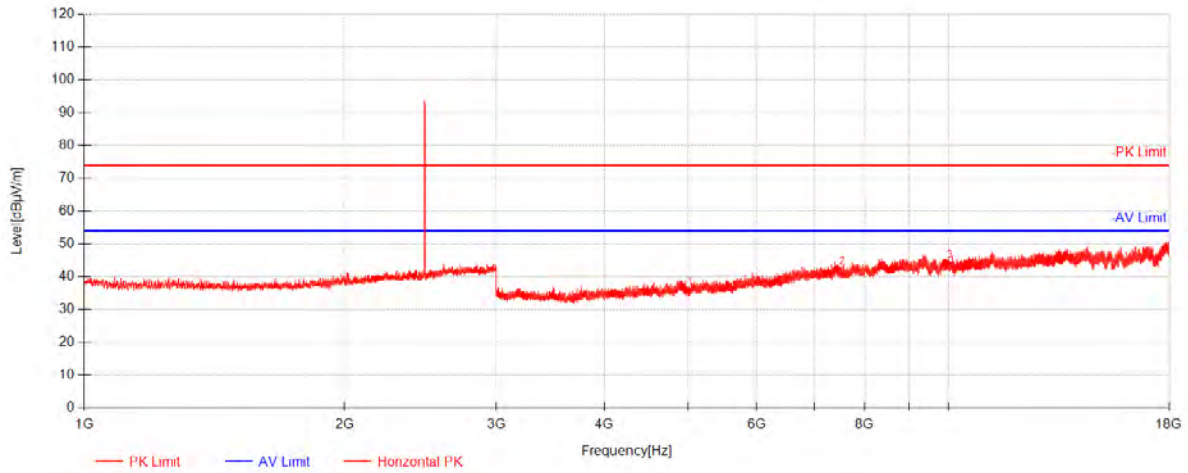
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1	4960.0000	48.95	32.77	-45.60	36.12	74.00	37.88	174	211	Horizontal
2	7440.0000	49.18	36.47	-43.30	42.35	74.00	31.65	134	356	Horizontal
3	9920.0000	45.15	38.38	-39.31	44.22	74.00	29.78	259	0	Horizontal

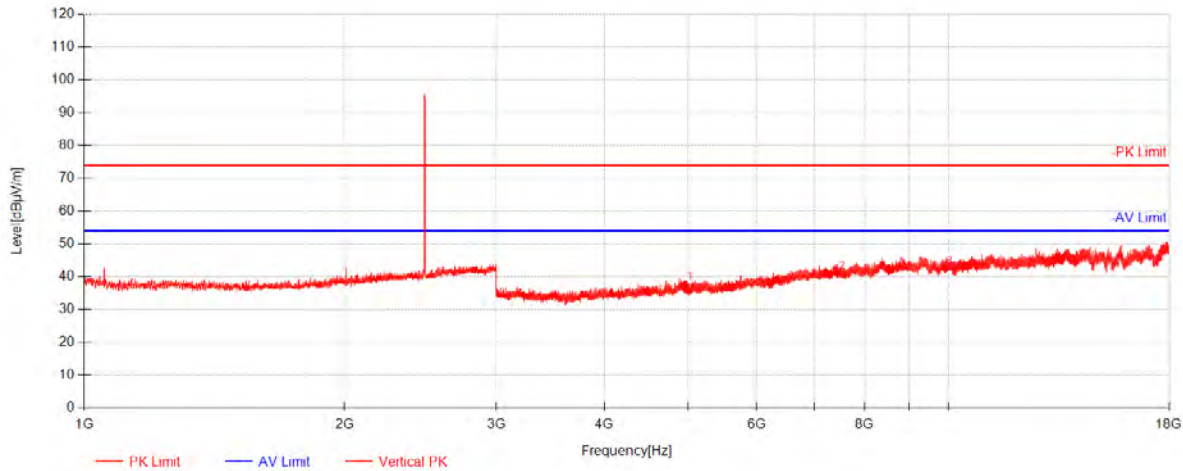


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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	50.49	32.77	-45.60	37.66	74.00	36.34	238	252	Vertical
2	7440.0000	47.76	36.47	-43.30	40.93	74.00	33.07	179	85	Vertical
3	9920.0000	43.32	38.38	-39.31	42.39	74.00	31.61	255	211	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:  
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$   
 $AF = Antenna\ Factor(dB/m)$   
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$   
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



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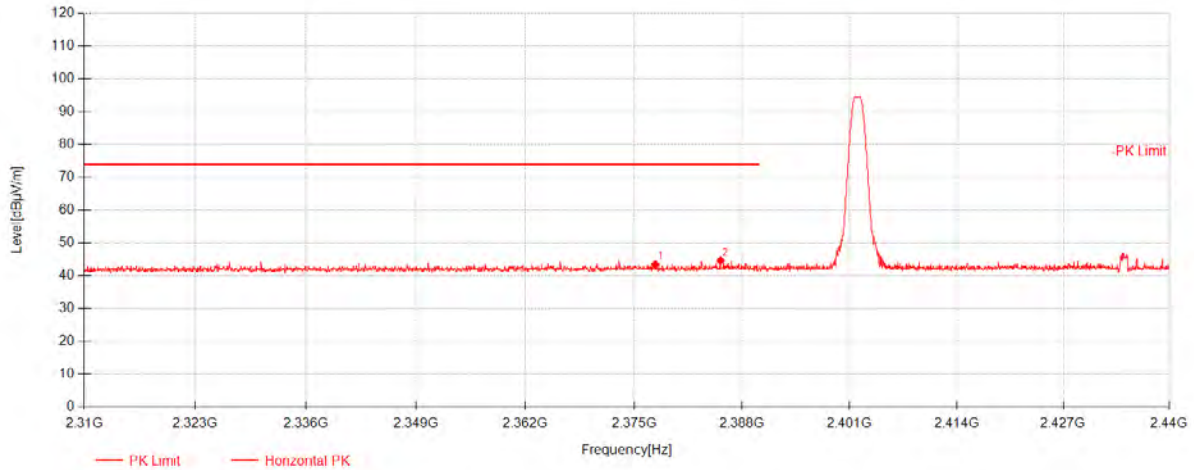
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### Restricted bands around fundamental frequency

For Ant 0:

BLE 1M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.5567	39.63	27.43	-23.57	43.49	74.00	30.51	169	245	Horizontal
2	2385.4	40.79	27.43	-23.57	44.65	74.00	29.35	169	245	Horizontal

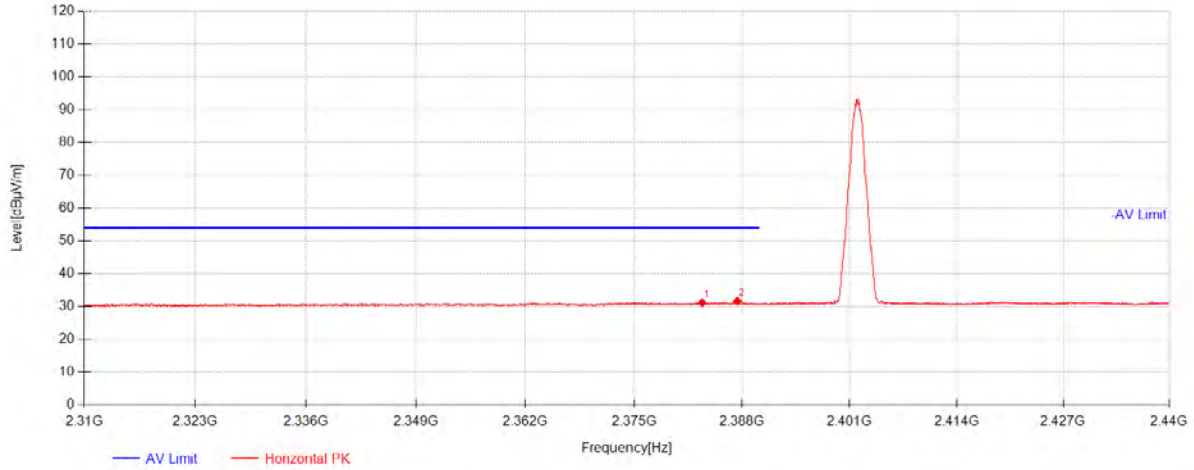


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BLE 1M\_Channel 00



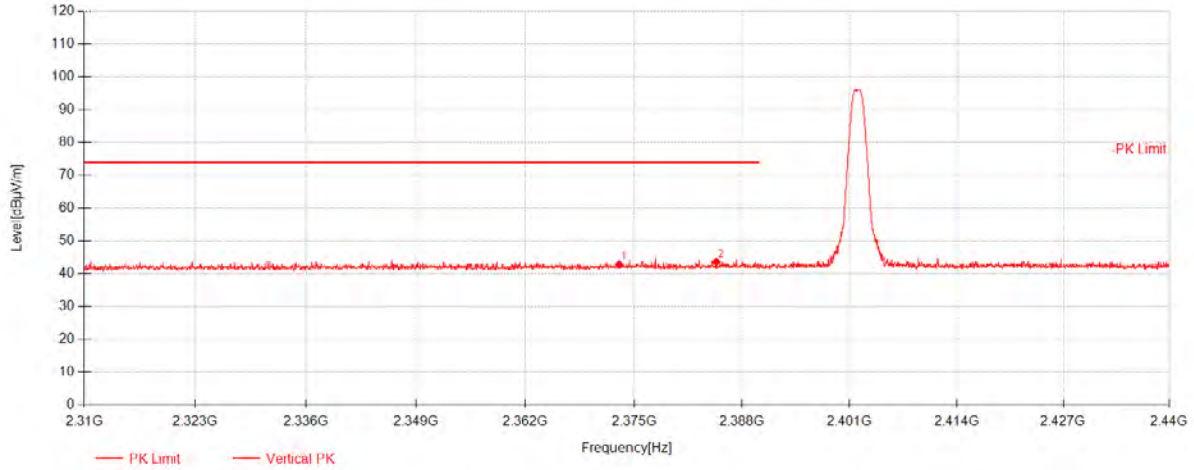
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.19	27.29	27.43	-23.57	31.15	54.00	22.85	169	245	Horizontal
2	2387.3933	27.79	27.43	-23.57	31.65	54.00	22.35	169	245	Horizontal



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BLE 1M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.2233	39.04	27.43	-23.57	42.89	74.00	31.11	213	55	Vertical
2	2384.88	39.78	27.43	-23.57	43.64	74.00	30.36	213	55	Vertical

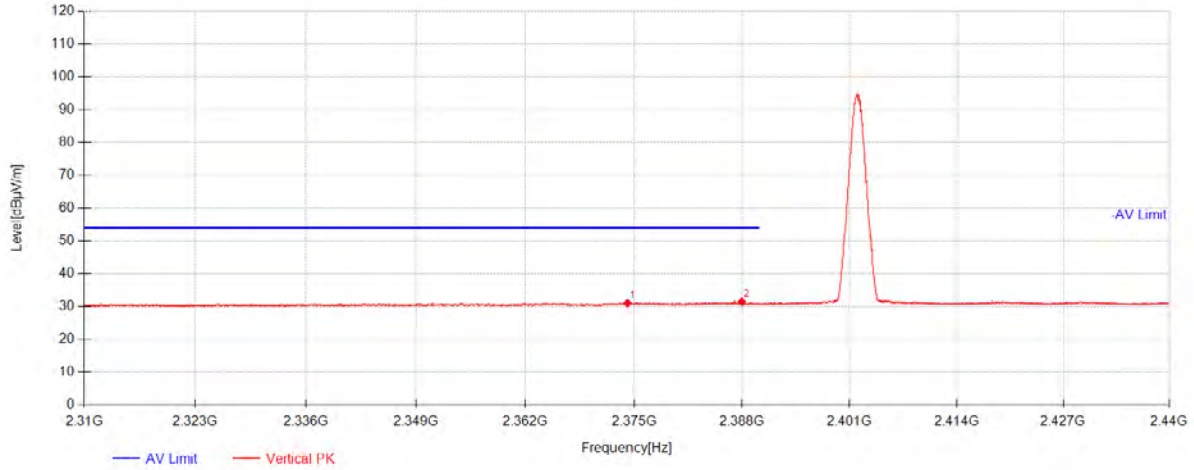


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.22	27.18	27.43	-23.57	31.03	54.00	22.97	213	55	Vertical
2	2387.9567	27.56	27.43	-23.57	31.42	54.00	22.58	213	55	Vertical

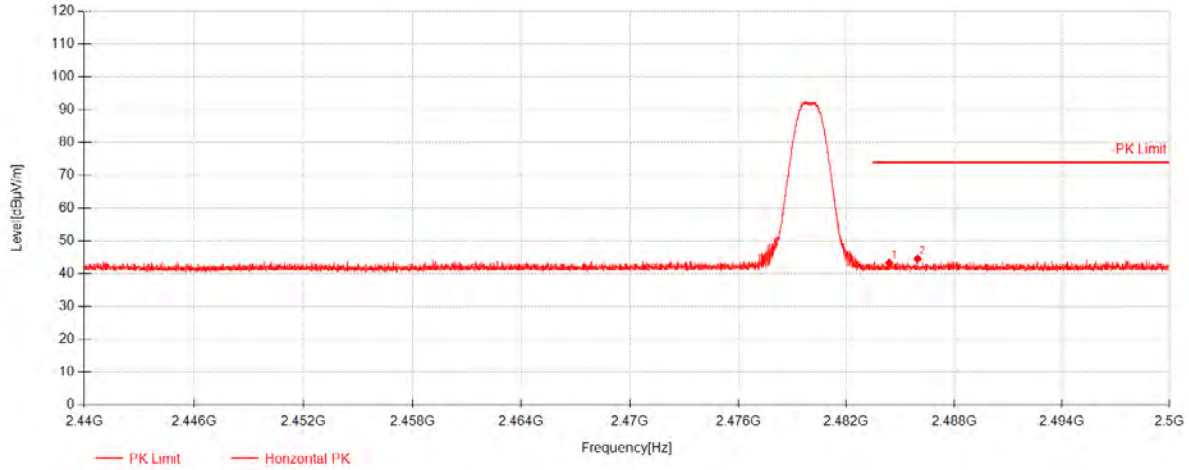


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BLE 1M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.385	39.12	27.72	-23.54	43.29	74.00	30.71	159	316	Horizontal
2	2485.9675	40.40	27.72	-23.54	44.58	74.00	29.42	159	316	Horizontal

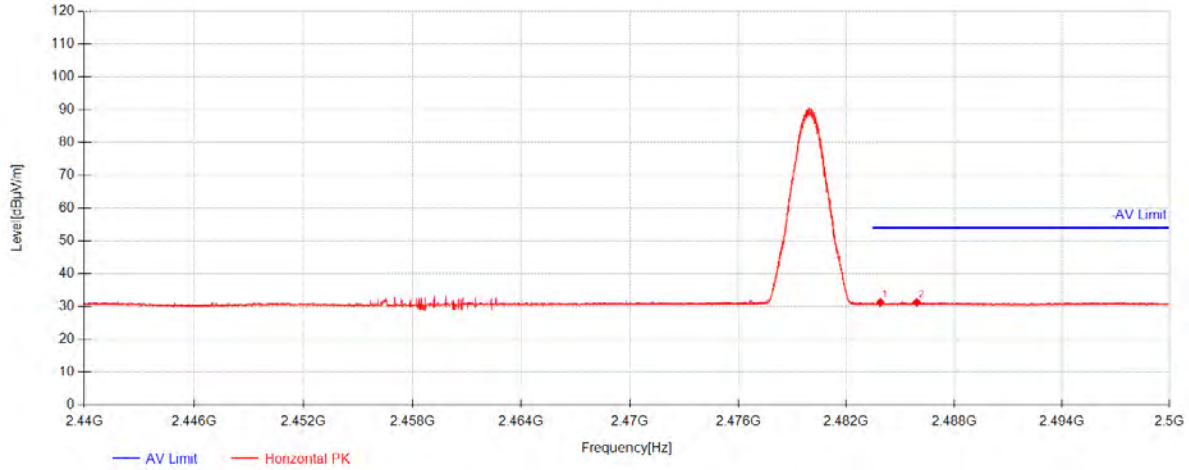


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.8975	27.05	27.72	-23.54	31.22	54.00	22.78	159	316	Horizontal
2	2485.9225	27.09	27.72	-23.54	31.27	54.00	22.73	159	316	Horizontal



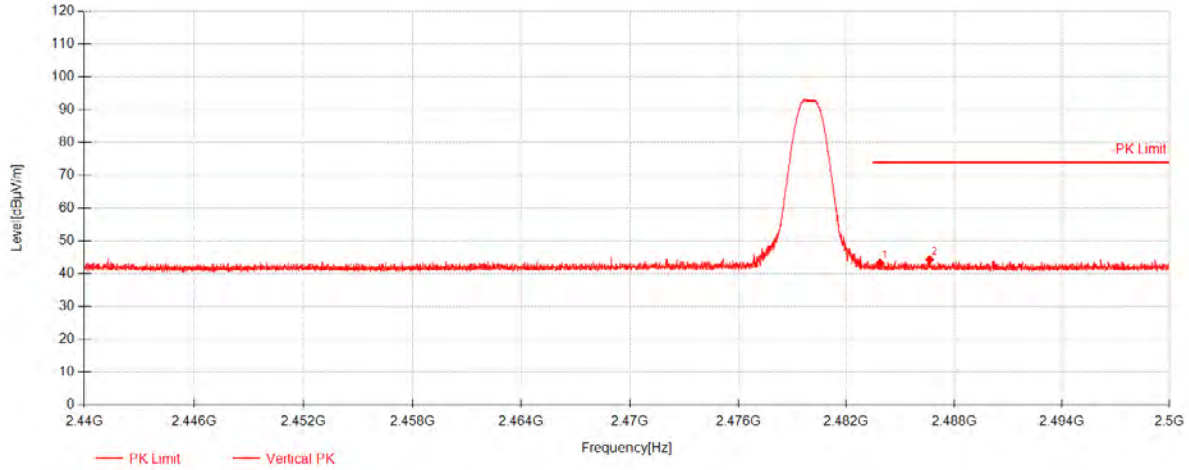
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.875	39.16	27.72	-23.54	43.33	74.00	30.67	206	128	Vertical
2	2486.635	40.15	27.73	-23.54	44.33	74.00	29.67	206	128	Vertical

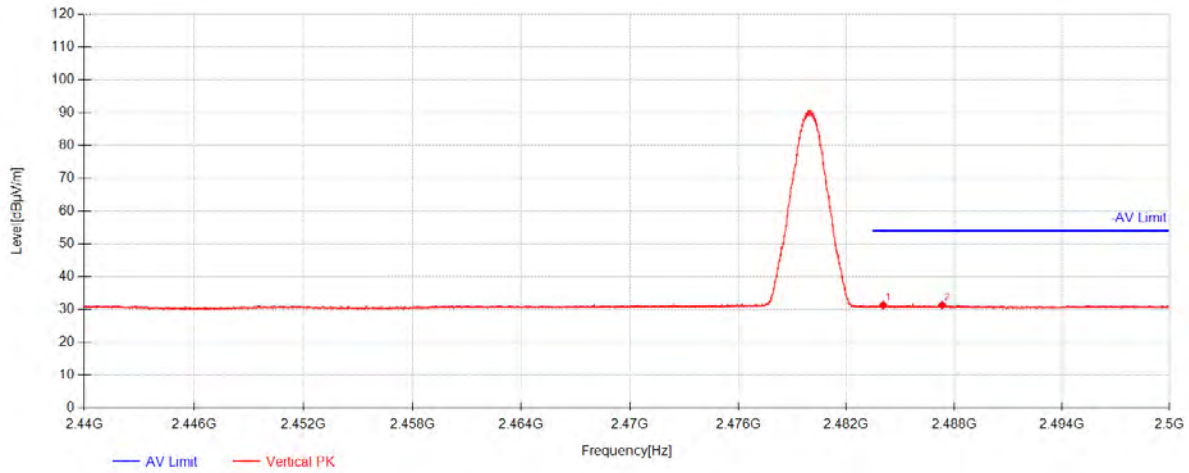


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BLE 1M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.0475	27.13	27.72	-23.54	31.30	54.00	22.70	206	128	Vertical
2	2487.34	27.13	27.73	-23.54	31.31	54.00	22.69	206	128	Vertical

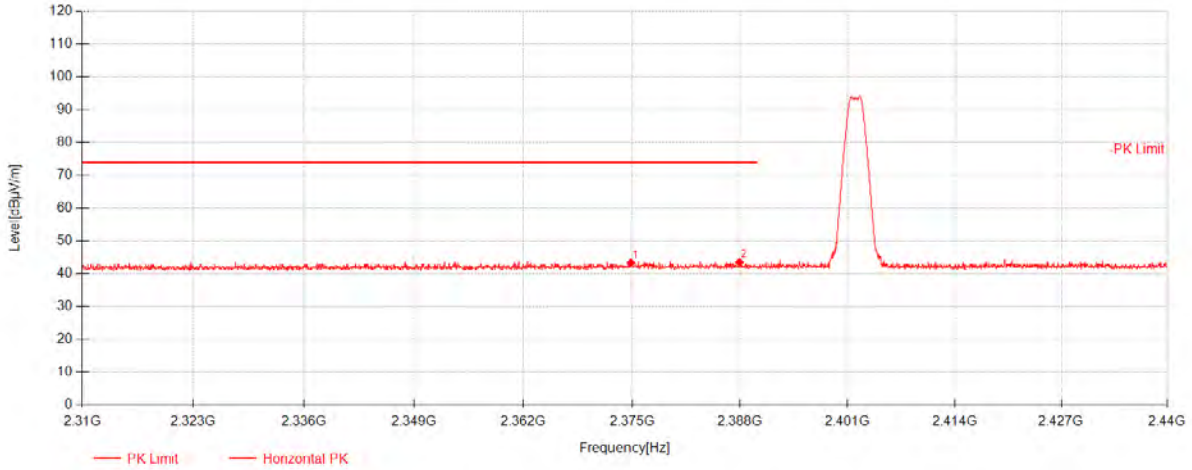


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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.87	39.53	27.43	-23.57	43.38	74.00	30.62	259	187	Horizontal
2	2387.9133	39.69	27.43	-23.57	43.55	74.00	30.45	259	187	Horizontal

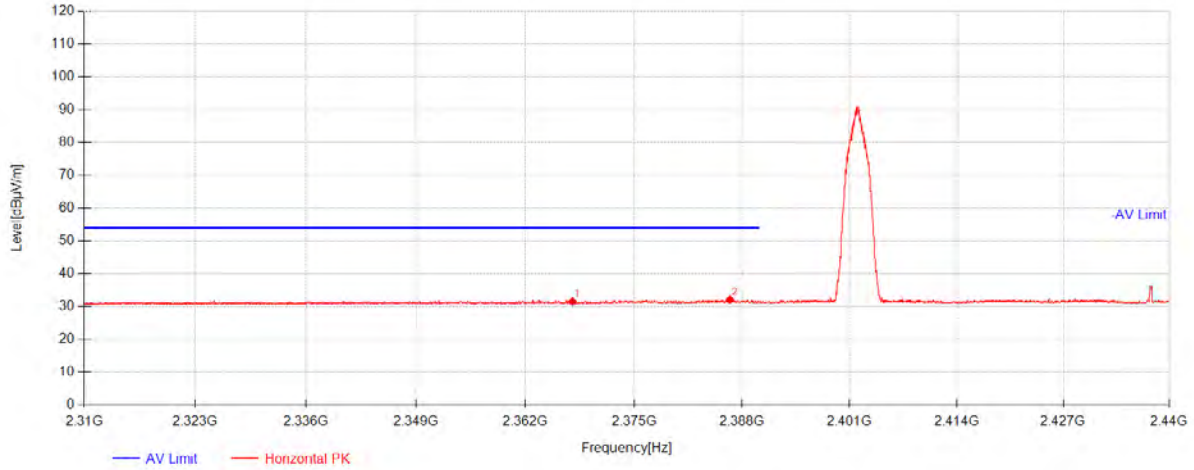


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.6333	27.68	27.42	-23.57	31.53	54.00	22.47	259	187	Horizontal
2	2386.5267	28.22	27.43	-23.57	32.08	54.00	21.92	259	187	Horizontal

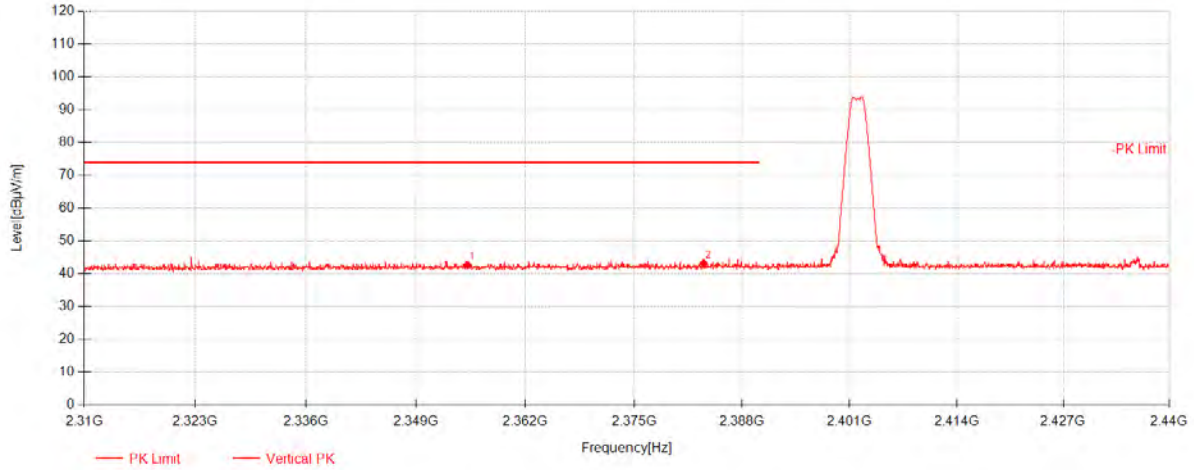


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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2355.11	38.90	27.42	-23.57	42.74	74.00	31.26	156	359	Vertical
2	2383.3633	39.39	27.43	-23.57	43.25	74.00	30.75	156	359	Vertical

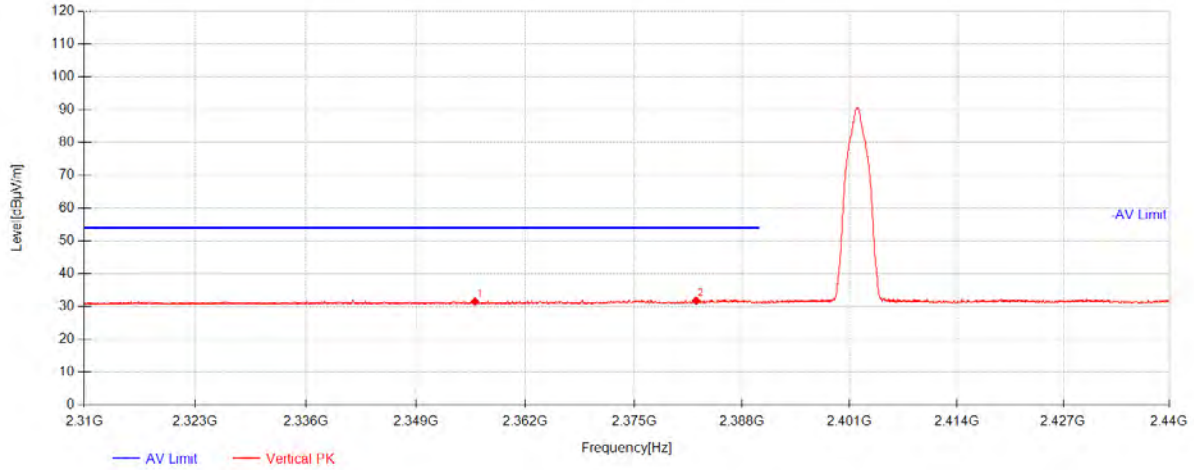


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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2356.02	27.66	27.42	-23.57	31.50	54.00	22.50	156	359	Vertical
2	2382.4533	27.90	27.43	-23.57	31.76	54.00	22.24	156	359	Vertical

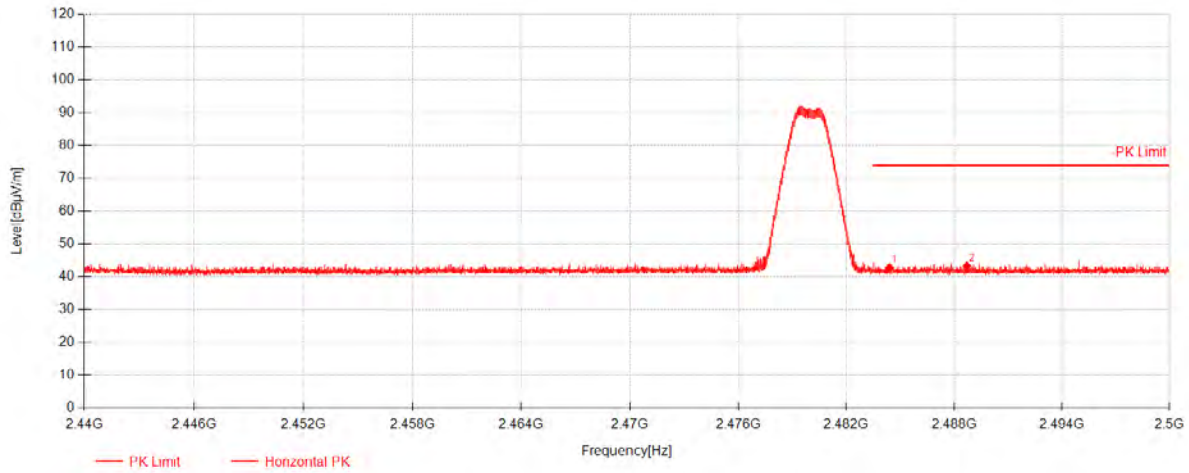


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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.4	38.71	27.72	-23.54	42.88	74.00	31.12	143	164	Horizontal
2	2488.7125	39.14	27.73	-23.54	43.33	74.00	30.67	143	164	Horizontal

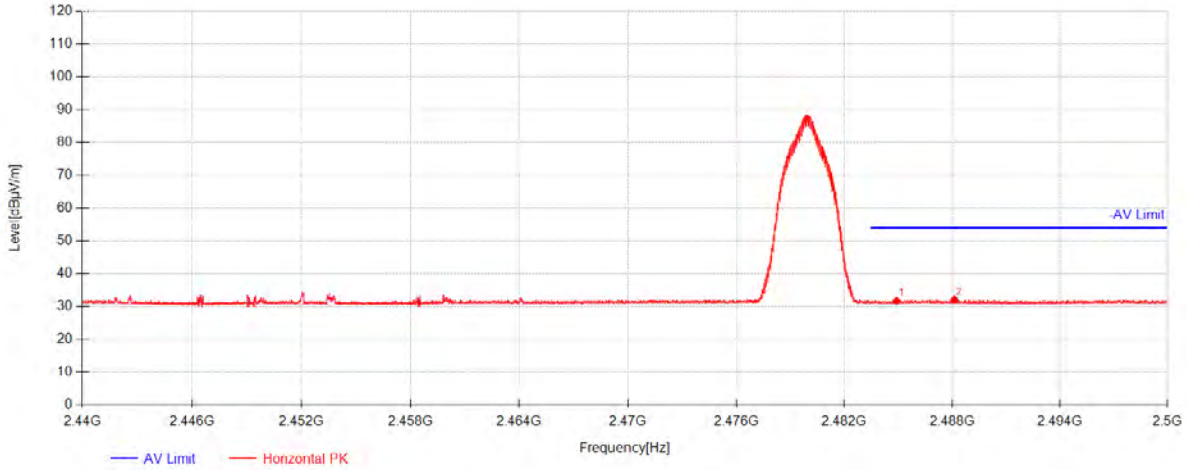


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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.91	27.49	27.72	-23.54	31.67	54.00	22.33	143	164	Horizontal
2	2488.1275	27.86	27.73	-23.54	32.05	54.00	21.95	143	164	Horizontal



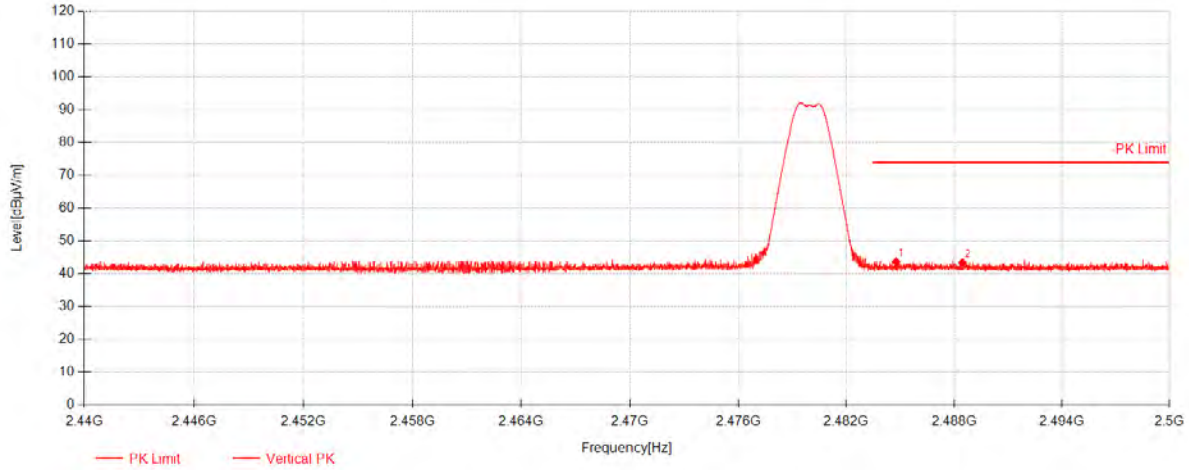
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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.7675	39.53	27.72	-23.54	43.71	74.00	30.29	246	223	Vertical
2	2488.465	39.23	27.73	-23.54	43.42	74.00	30.58	246	223	Vertical

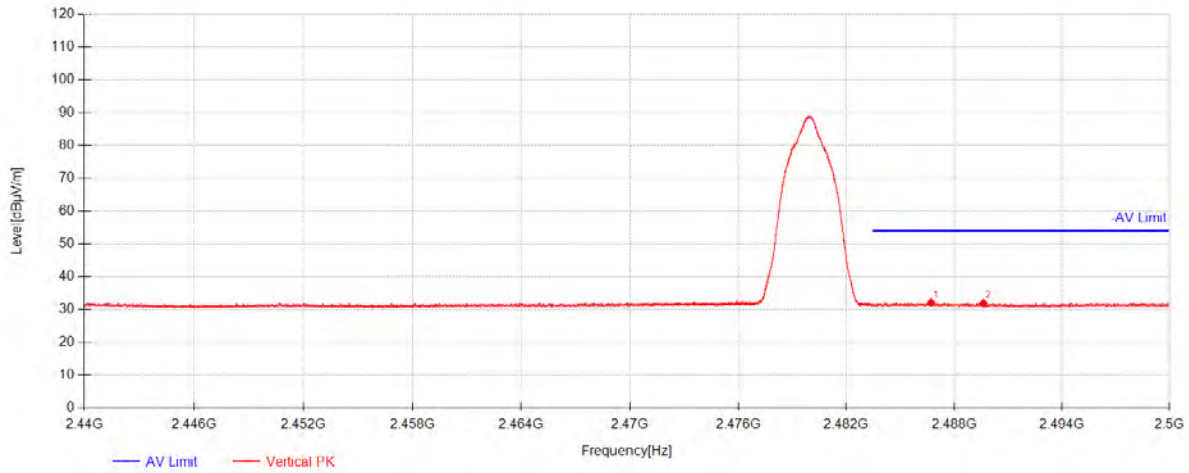


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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.7175	27.91	27.73	-23.54	32.09	54.00	21.91	246	223	Vertical
2	2489.635	27.71	27.74	-23.54	31.90	54.00	22.10	246	223	Vertical



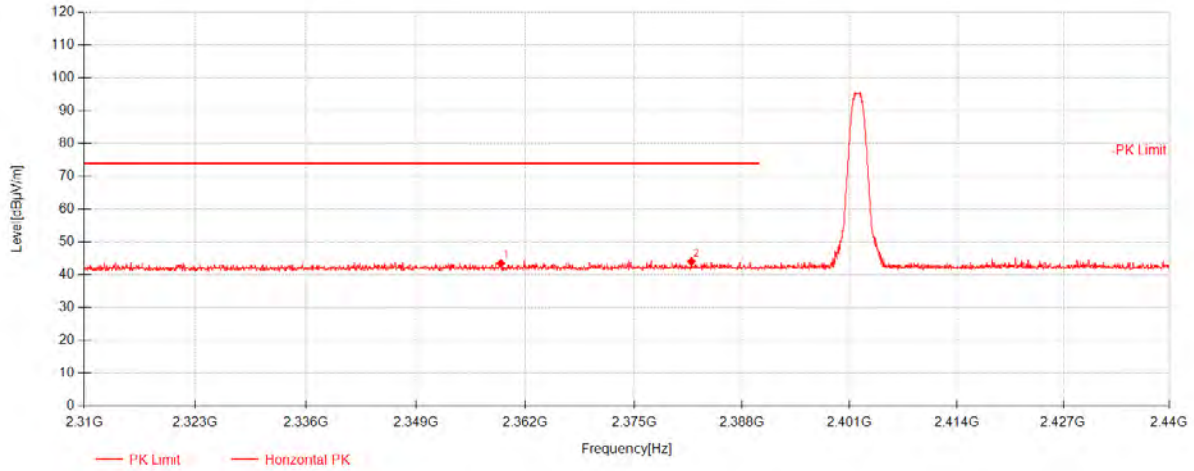
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**For Ant 1(Worst):**

**BLE 1M\_Channel 00**



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2359.0967	39.64	27.42	-23.57	43.49	74.00	30.51	154	84	Horizontal
2	2381.89	40.20	27.43	-23.57	44.06	74.00	29.94	154	84	Horizontal

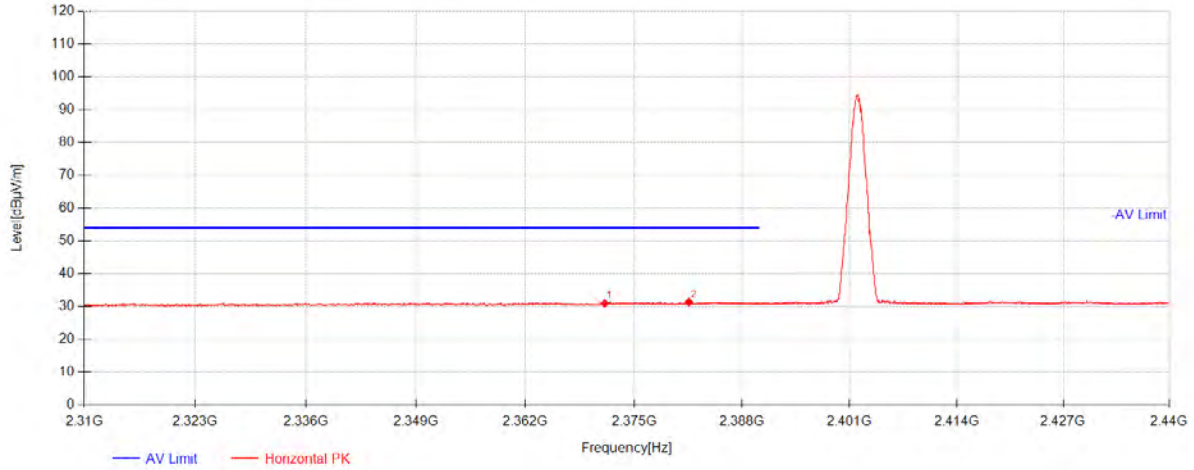


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BLE 1M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.49	27.13	27.43	-23.57	30.98	54.00	23.02	154	84	Horizontal
2	2381.5867	27.47	27.43	-23.57	31.33	54.00	22.67	154	84	Horizontal

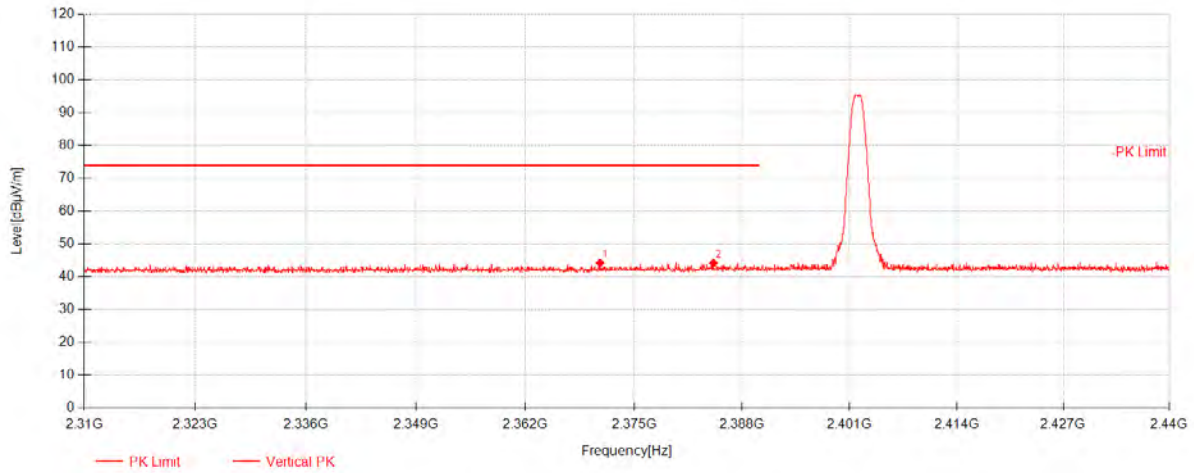


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BLE 1M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.9267	40.38	27.43	-23.57	44.23	74.00	29.77	167	179	Vertical
2	2384.5333	40.33	27.43	-23.57	44.19	74.00	29.81	167	179	Vertical

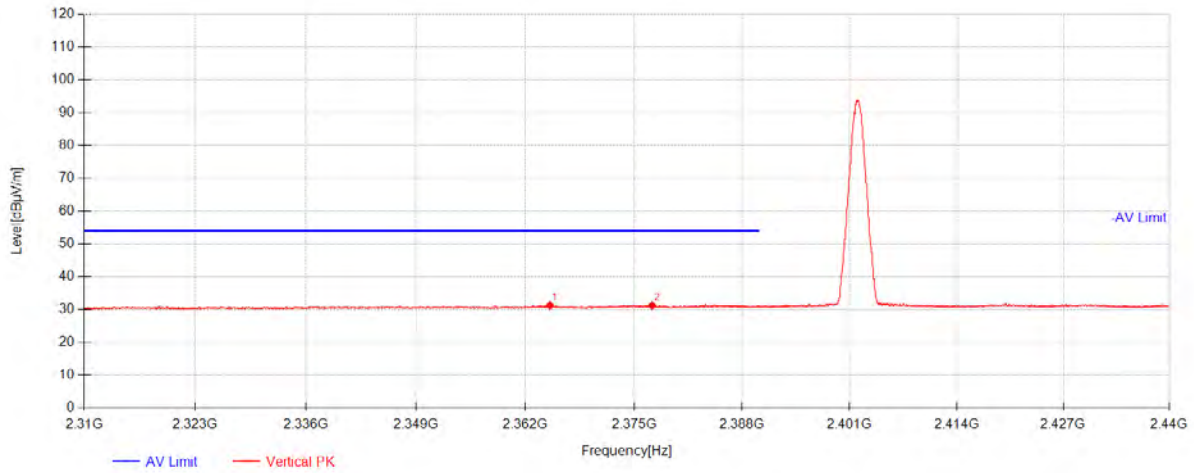


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BLE 1M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2364.9467	27.42	27.42	-23.57	31.27	54.00	22.73	167	179	Vertical
2	2377.1667	27.35	27.43	-23.57	31.21	54.00	22.79	167	179	Vertical

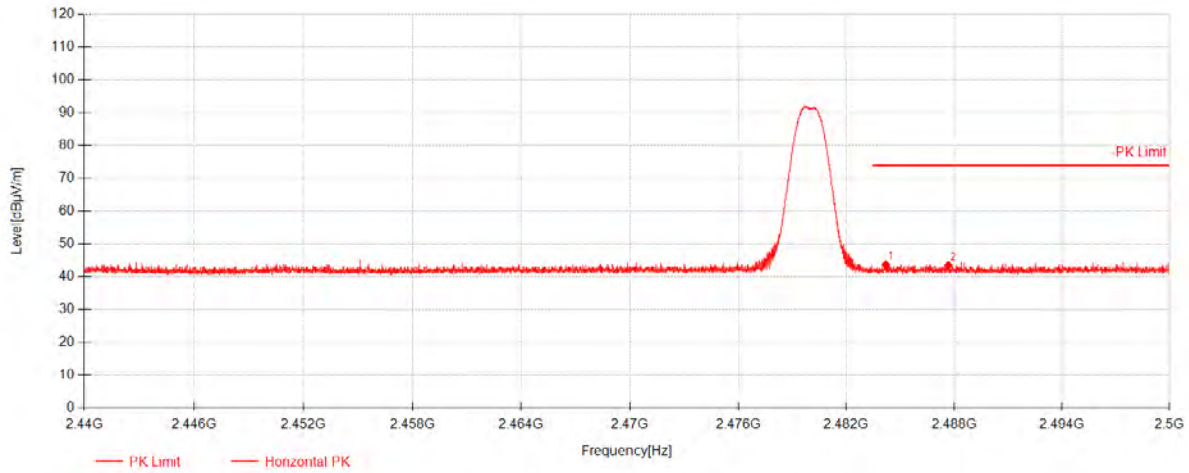


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.1975	39.56	27.72	-23.54	43.73	74.00	30.27	247	62	Horizontal
2	2487.6775	39.33	27.73	-23.54	43.52	74.00	30.48	247	62	Horizontal

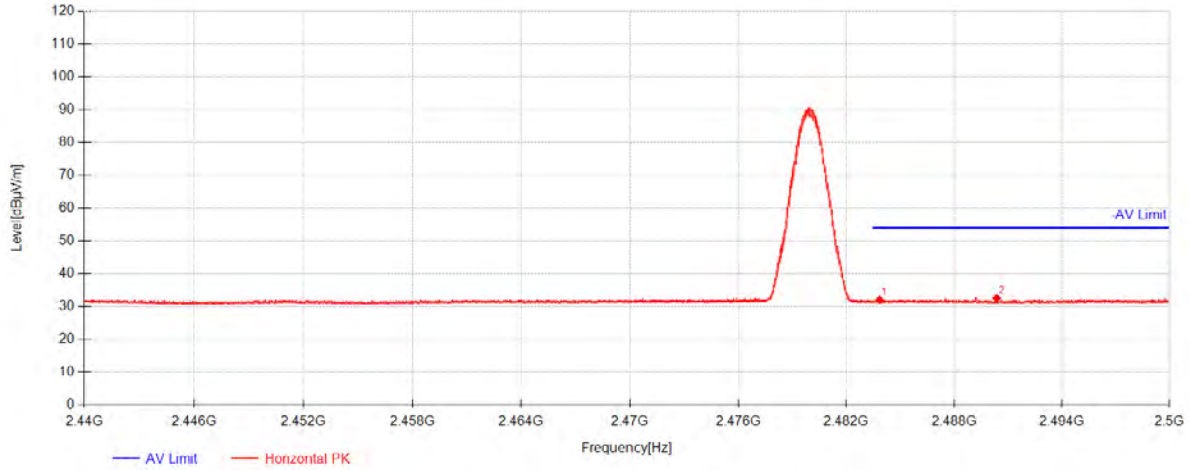


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BLE 1M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.8525	27.83	27.72	-23.54	32.00	54.00	22.00	247	62	Horizontal
2	2490.3775	28.31	27.74	-23.54	32.51	54.00	21.49	247	62	Horizontal



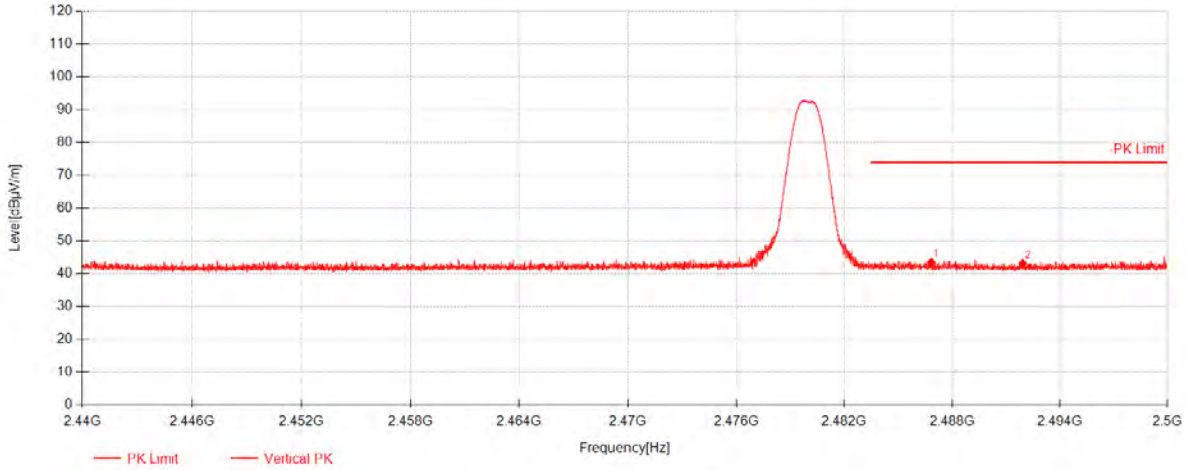
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BLE 1M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.8375	39.43	27.73	-23.54	43.61	74.00	30.39	142	45	Vertical
2	2491.9375	39.02	27.74	-23.54	43.22	74.00	30.78	142	45	Vertical

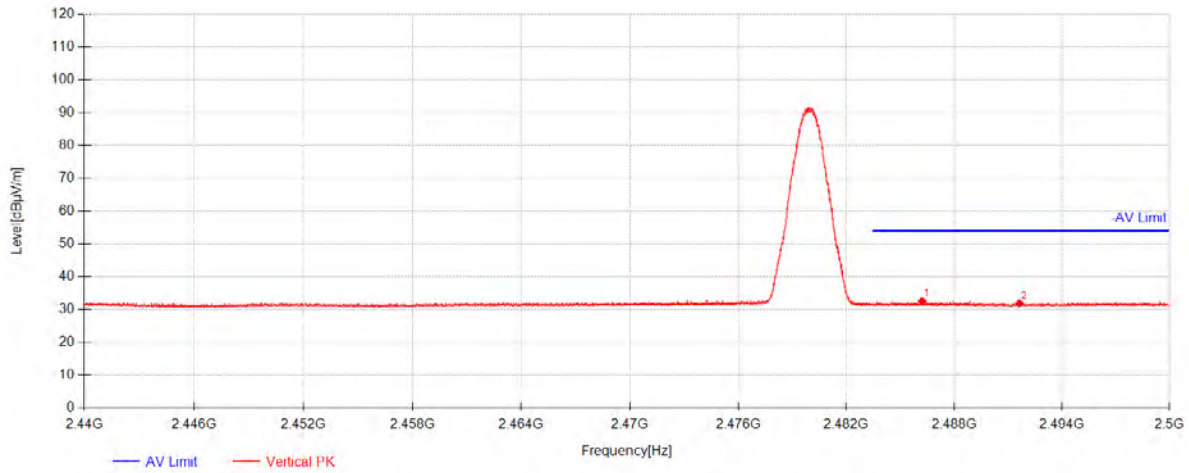


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BLE 1M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.2225	28.36	27.72	-23.54	32.54	54.00	21.46	142	45	Vertical
2	2491.645	27.66	27.74	-23.54	31.86	54.00	22.14	142	45	Vertical

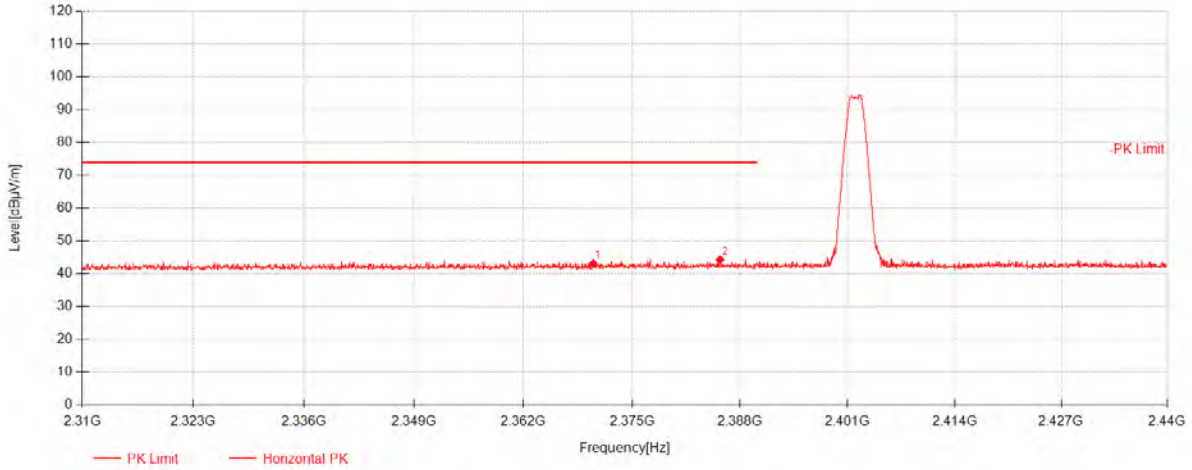


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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.3633	39.31	27.43	-23.57	43.16	74.00	30.84	216	326	Horizontal
2	2385.5733	40.49	27.43	-23.57	44.35	74.00	29.65	216	326	Horizontal

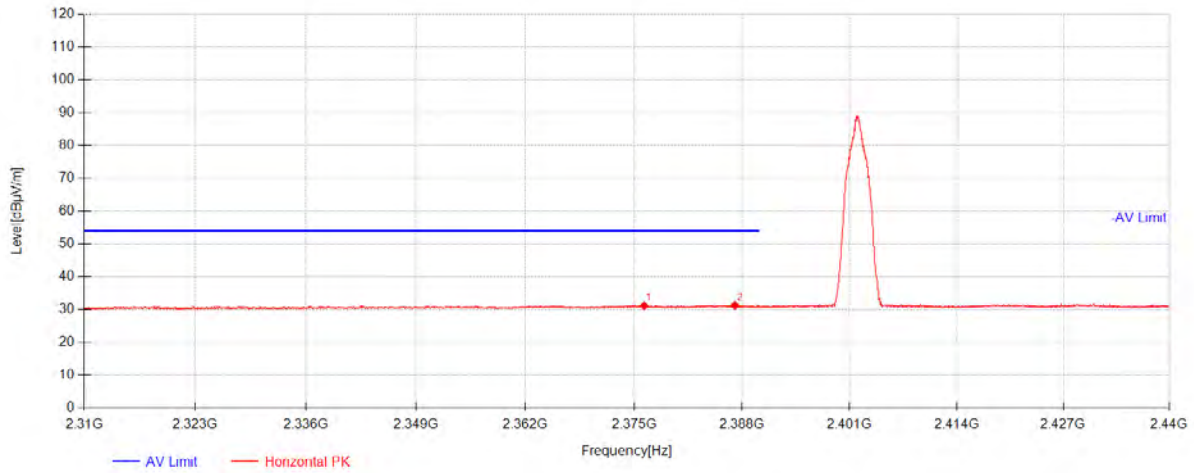


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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.2133	27.28	27.43	-23.57	31.14	54.00	22.86	216	326	Horizontal
2	2387.1333	27.40	27.43	-23.57	31.26	54.00	22.74	216	326	Horizontal

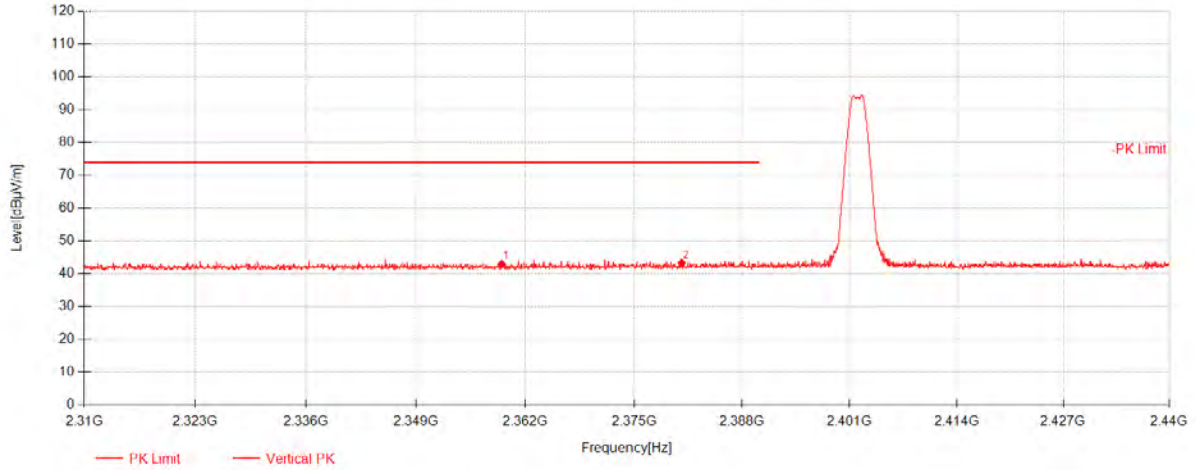


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BLE 2M\_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2359.1833	39.14	27.42	-23.57	42.99	74.00	31.01	176	3	Vertical
2	2380.72	39.42	27.43	-23.57	43.28	74.00	30.72	176	3	Vertical

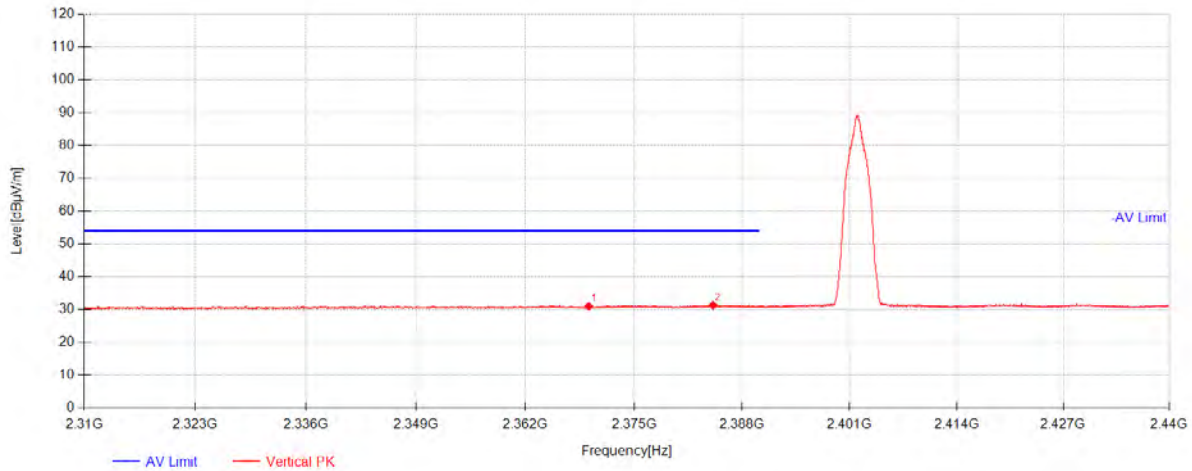


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.5833	27.16	27.42	-23.57	31.01	54.00	22.99	176	3	Vertical
2	2384.49	27.44	27.43	-23.57	31.30	54.00	22.70	176	3	Vertical

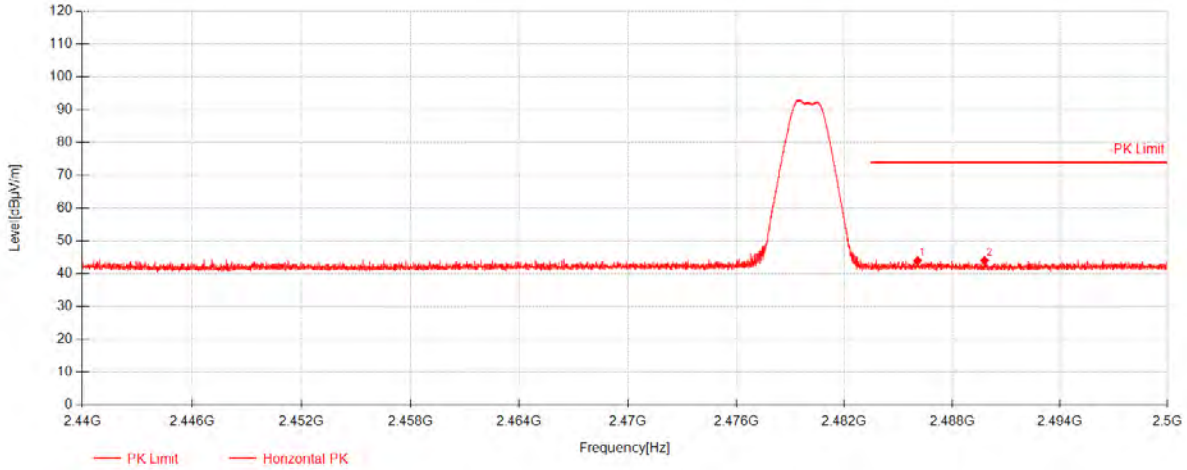


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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.08	39.83	27.72	-23.54	44.01	74.00	29.99	263	155	Horizontal
2	2489.8075	39.87	27.74	-23.54	44.06	74.00	29.94	263	155	Horizontal

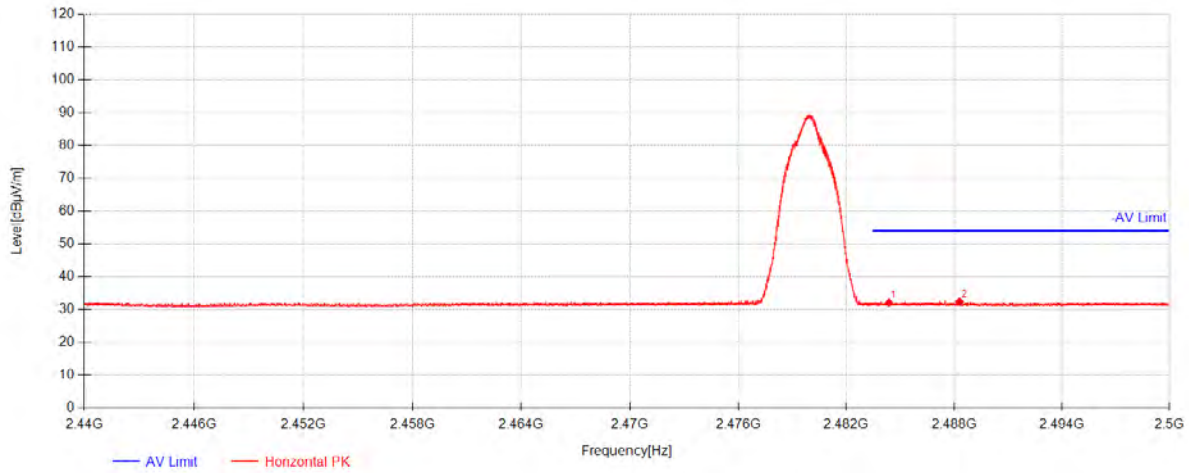


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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.3775	27.87	27.72	-23.54	32.04	54.00	21.96	263	155	Horizontal
2	2488.3	28.14	27.73	-23.54	32.33	54.00	21.67	263	155	Horizontal



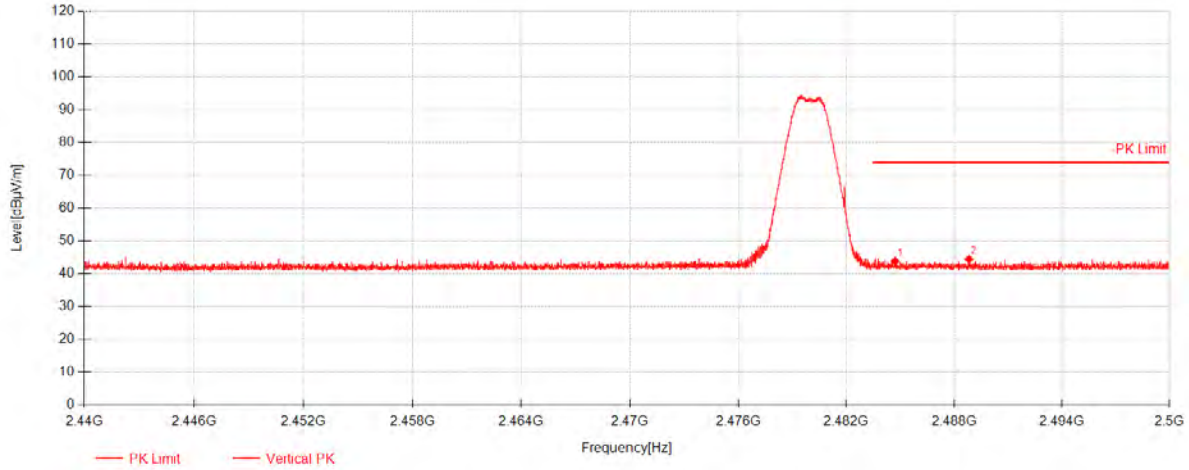
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BLE 2M\_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.715	39.71	27.72	-23.54	43.88	74.00	30.12	162	94	Vertical
2	2488.825	40.29	27.73	-23.54	44.48	74.00	29.52	162	94	Vertical

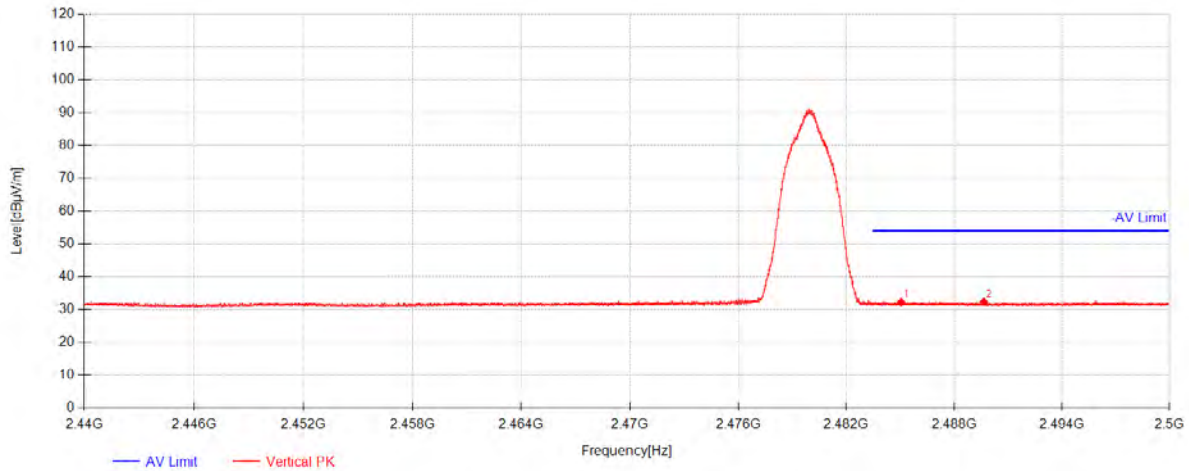


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**BLE 2M\_Channel 39**



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.045	28.01	27.72	-23.54	32.19	54.00	21.81	162	94	Vertical
2	2489.6575	28.09	27.74	-23.54	32.28	54.00	21.72	162	94	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain.

The basic equation with a sample calculation is as follows:

Level = Reading(dBµV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBµV/m) – Level(dBµV/m)

---End of Report---



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