

Report No.: SEWM2304000111RG03
Rev.: 01
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TEST REPORT

Application No: SEWM2304000111RG
Applicant: Shenzhen Tinno Mobile Technology Corp.
Address of Applicant: TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
Manufacturer: Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer: TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
EUT Description: Smart Phone
Model No.: U680AA, U680AC
FCC ID: XD6U680AA
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/04/20
Date of Test: 2023/05/10 to 2023/06/06
Date of Issue: 2023/06/07

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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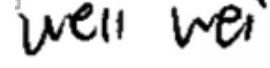
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1 Version

Revision Record

Version	Chapter	Date	Modifier	Remark
01		2023/06/07		Original

Prepared By	
	(Tizzy Song) / Test Engineer
Checked By	
	(Well Wei) / Reviewer



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 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 C63.10-2020 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10-2020 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:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province
Manufacturer:	Shenzhen Tinno Mobile Technology Corp.
Address of Manufacturer:	TINNO HQ Building, Tongfa South Road Nanshan District Shenzhen, Guangdong Province

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:	Ives Cheng, Tizzy Song

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

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Smart Phone			
Model No.:	U680AA, U680AC			
Hardware Version:	V1.0			
Software Version:	U680AAV01.02.10			
IMEI:	RF Conducted	861745060000385		
	RSE & AC power line	861745060008388		
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 V5.0			
Modulation Type:	GFSK			
Number of Channel:	40			
Rates Type*:	<input checked="" type="checkbox"/> Provided by client 1M PHY 2M PHY			
	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated			
Antenna Gain:	-0.6dBi(Ant2)			
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
RF Cable:	1.0dB			
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: 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.				



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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	101.0kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.70

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

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 Antenna and no consideration of replacement.	
The best case gain of the antenna is -0.6dB(Ant2).*	
*Note:	
<i>The antenna gain are derived from the gain information report provided by the manufacturer.</i>	
Remark:	
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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020 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 C63.10-2020 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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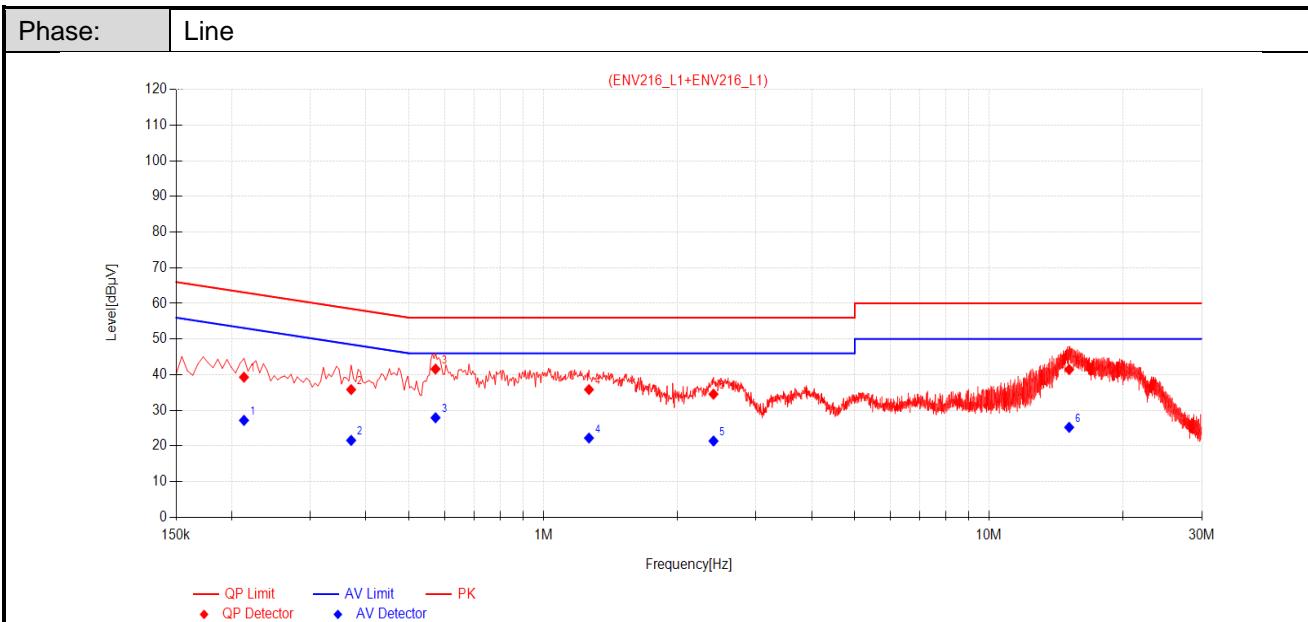
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Measurement Data

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.

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	0.2130	11.65	27.65	39.30	63.09	23.79	15.55	27.20	53.09	25.89	PASS
2	0.3705	11.61	24.21	35.82	58.49	22.67	9.96	21.57	48.49	26.92	PASS
3	0.5730	11.62	29.96	41.58	56.00	14.42	16.30	27.92	46.00	18.08	PASS
4	1.2660	11.73	24.10	35.83	56.00	20.17	10.51	22.24	46.00	23.76	PASS
5	2.4090	11.73	22.81	34.54	56.00	21.46	9.68	21.41	46.00	24.59	PASS
6	15.1305	11.93	29.52	41.45	60.00	18.55	13.30	25.23	50.00	24.77	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]

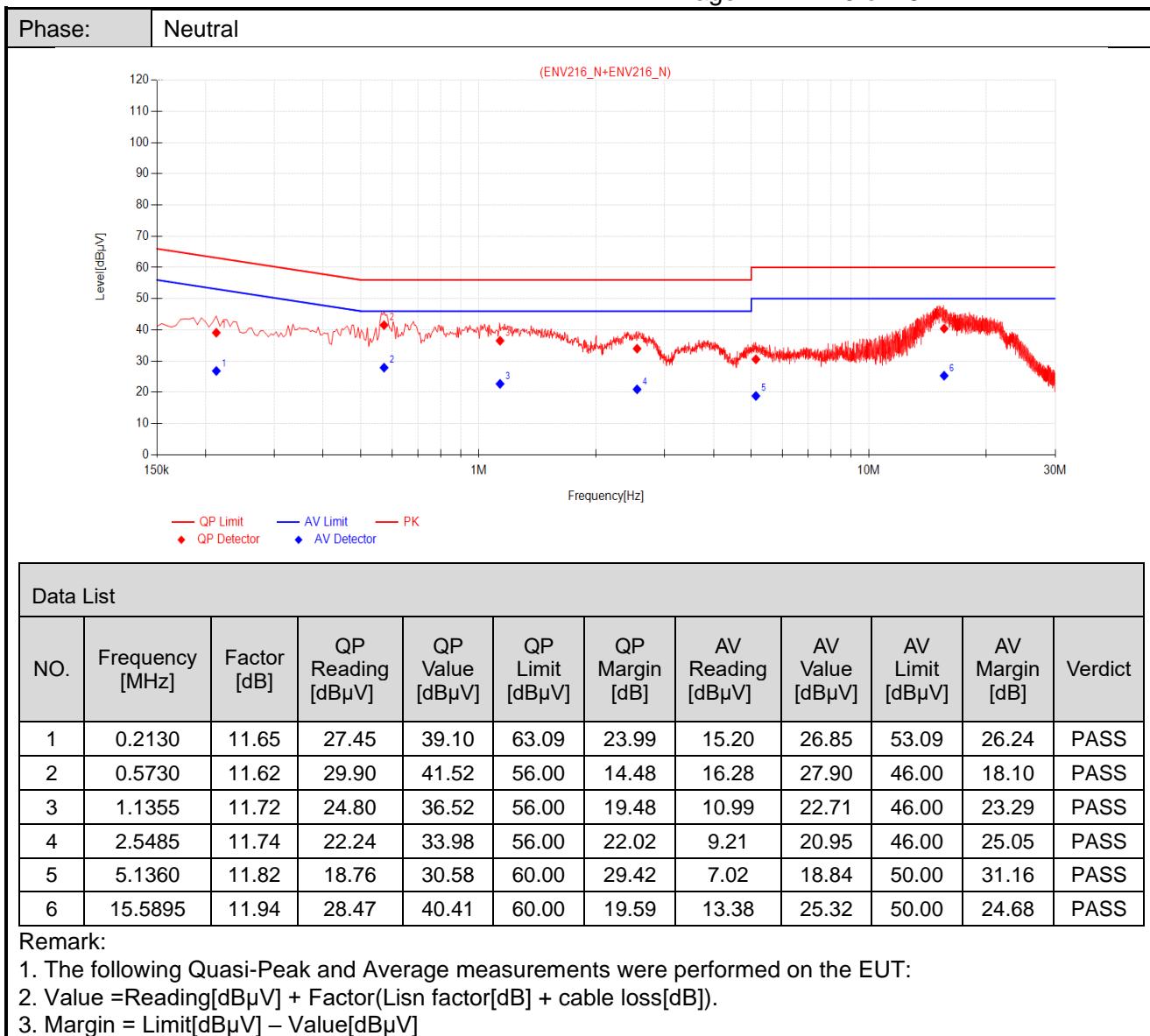
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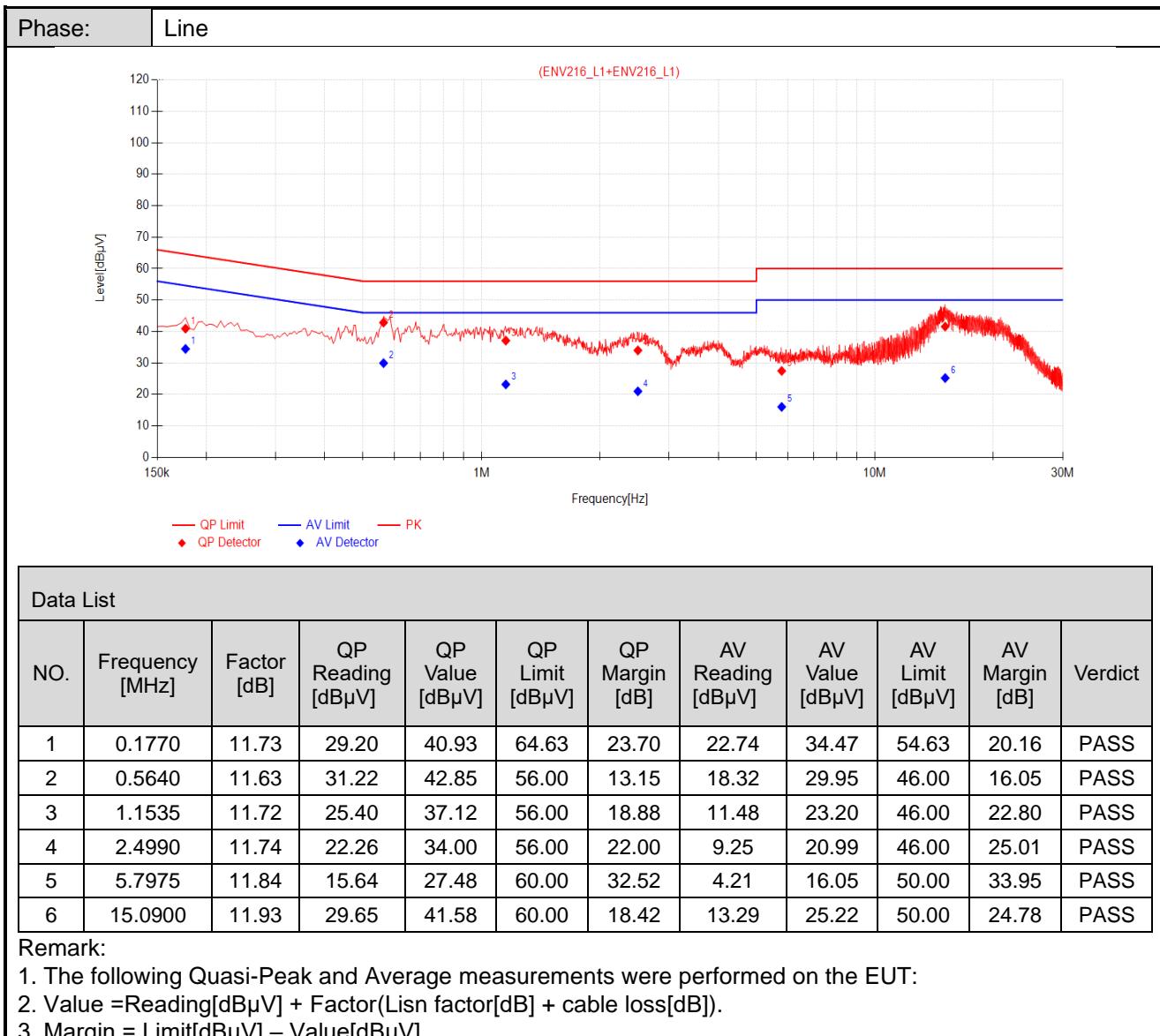
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BLE 2M:



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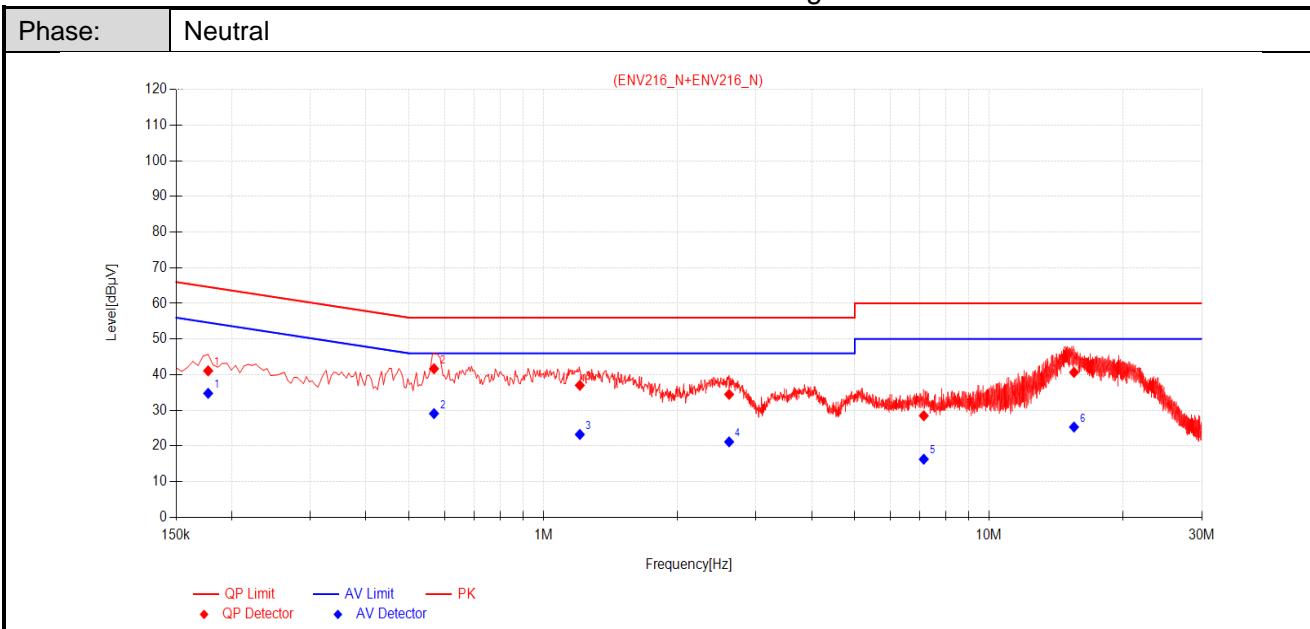
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Data List

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	0.1770	11.73	29.35	41.08	64.63	23.55	23.04	34.77	54.63	19.86	PASS
2	0.5685	11.62	30.06	41.68	56.00	14.32	17.47	29.09	46.00	16.91	PASS
3	1.2075	11.73	25.29	37.02	56.00	18.98	11.51	23.24	46.00	22.76	PASS
4	2.6115	11.73	22.74	34.47	56.00	21.53	9.44	21.17	46.00	24.83	PASS
5	7.1385	11.89	16.60	28.49	60.00	31.51	4.41	16.30	50.00	33.70	PASS
6	15.5130	11.94	28.70	40.64	60.00	19.36	13.38	25.32	50.00	24.68	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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4.3 Duty Cycle

The detailed test data see: **Appendix**



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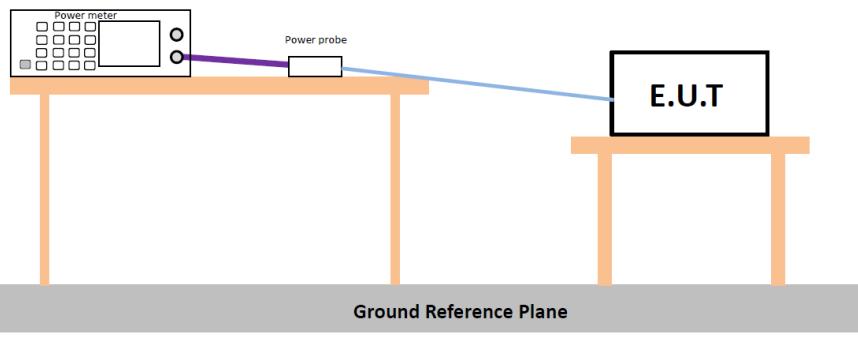
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 Section 11.9.1.2
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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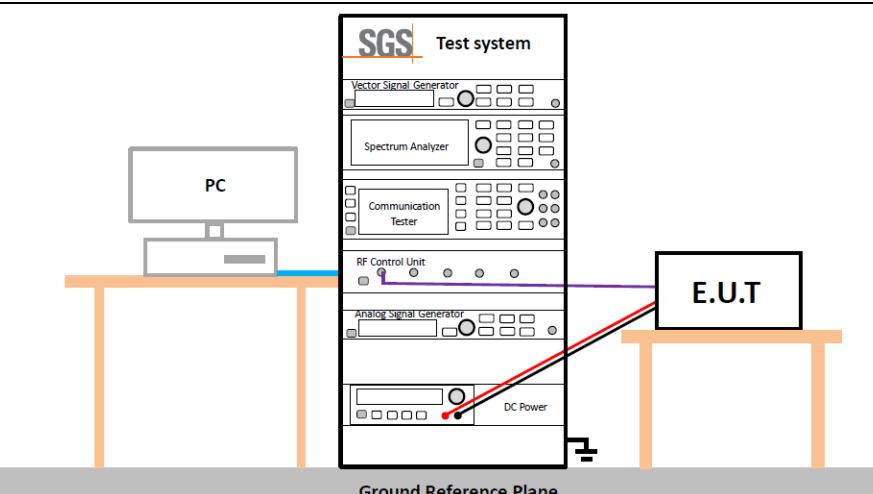
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 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: Appendix	



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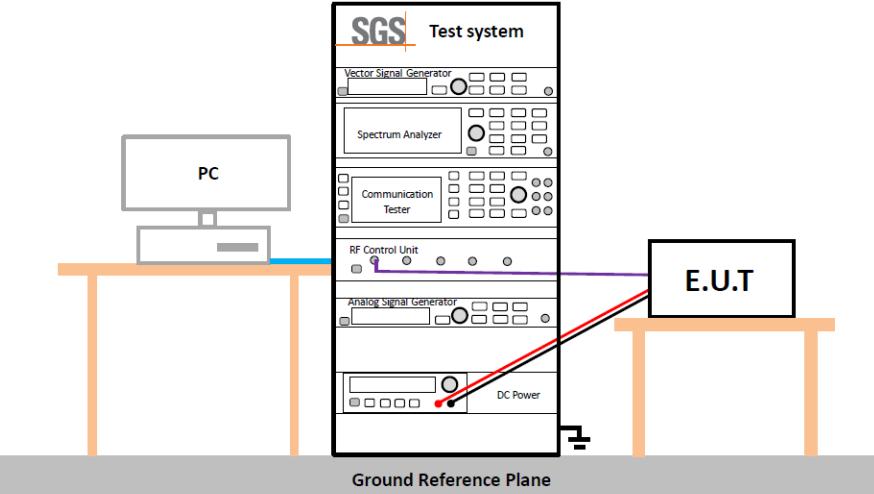
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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	$\leq 8.00 \text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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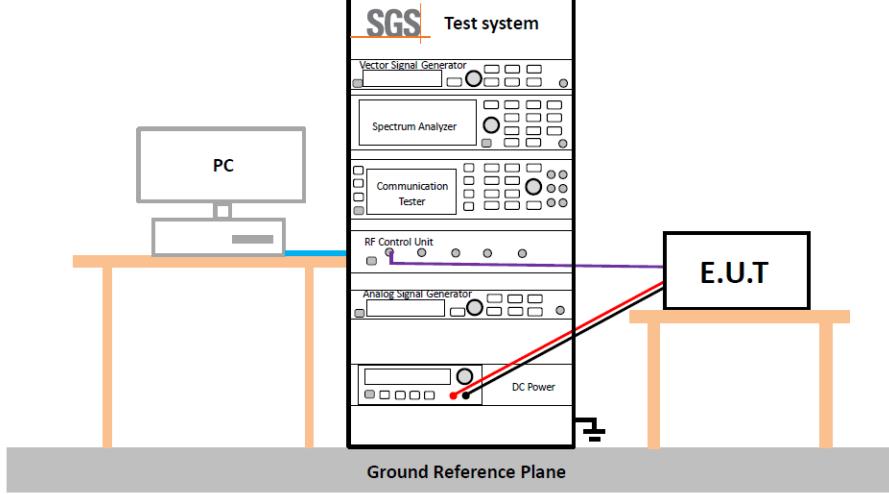
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 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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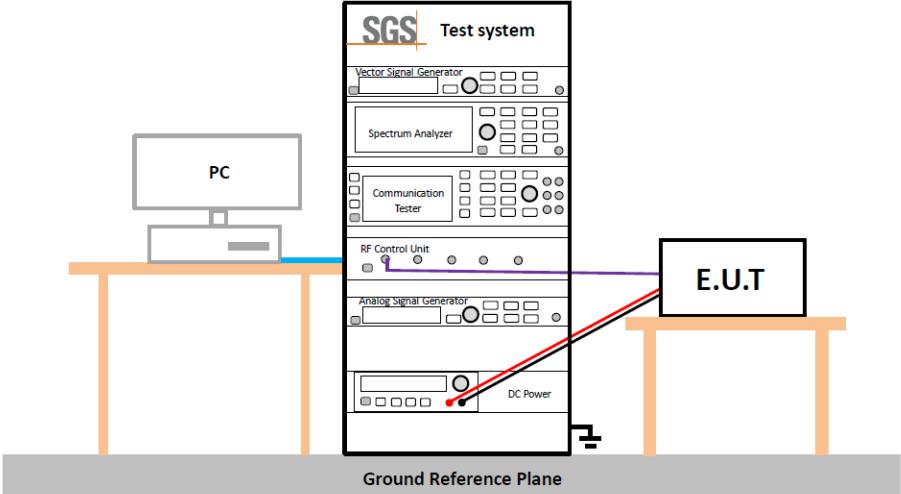
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 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 C63.10-2020 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:

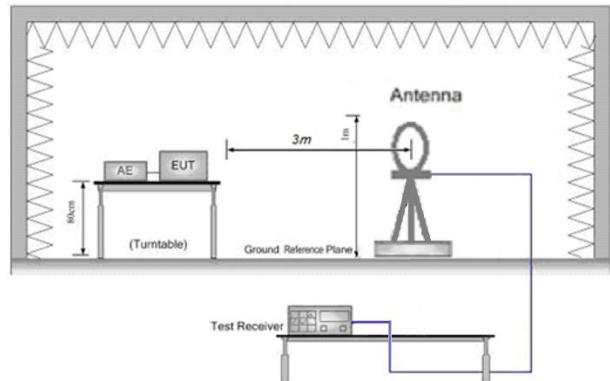


Figure 1. Below 30MHz

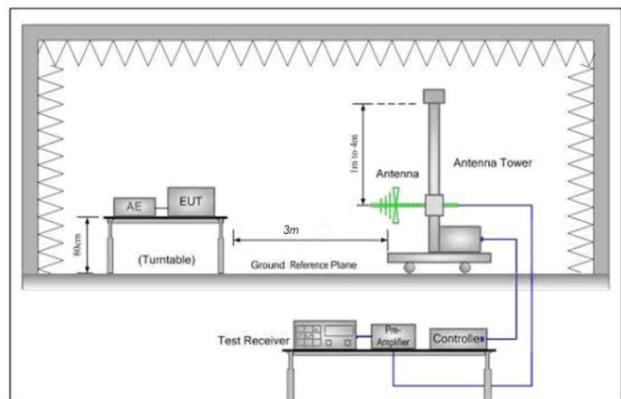


Figure 2. 30MHz to 1GHz

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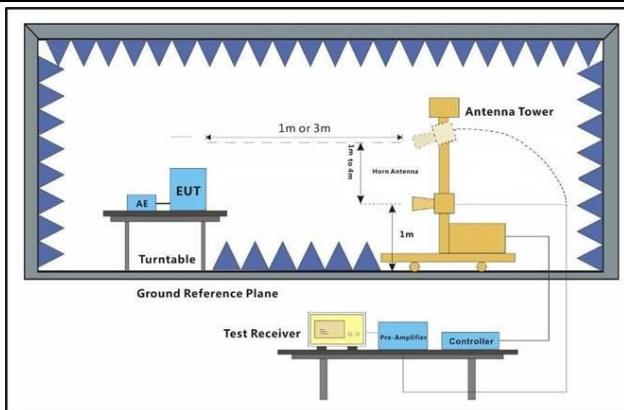


Figure 3. Above 1 GHz

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 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold



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	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent. • VBW \geq 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.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2020 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:

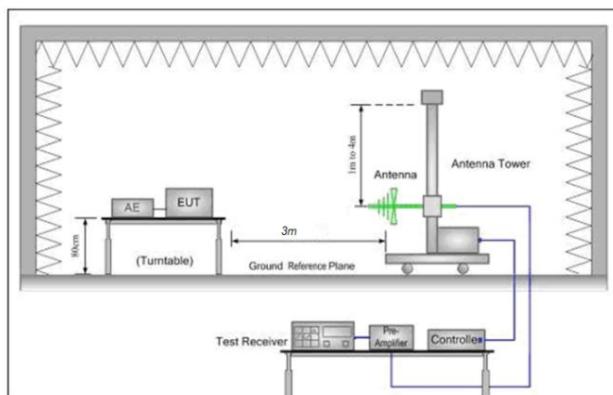


Figure 1. 30MHz to 1GHz

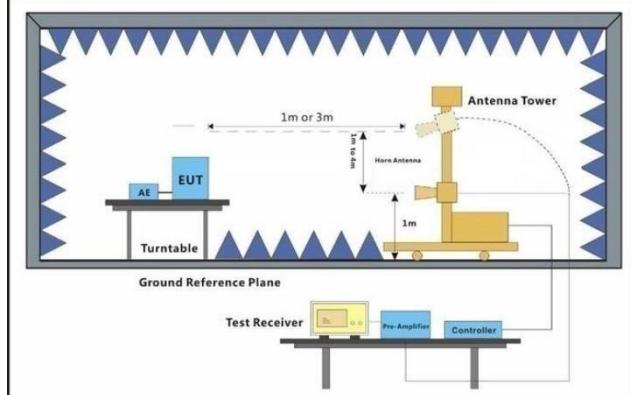


Figure 2. Above 1 GHz

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
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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"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent. • VBW \geq 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.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	<p>Refer to section 6 for details</p>
Test Results:	<p>Pass</p>
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 to 30MHz)
		± 4.88dB (30M to 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
				2023/05/11	2024/05/10
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
				2023/05/11	2024/05/10
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
Signal Generator	ROHDE&SCHWARZ	SMM100A	SN:101716	2023/02/22	2024/02/21

Conduction 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-04-03-01	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 V4.0.0.2	SUWI-02-09-05	NCR	NCR

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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
				2023/05/11	2024/05/10
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 9168	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
				2023/05/12	2024/05/11
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
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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The logo is circular with a red border. Inside the border, the text "SGS-CSTC 通标检测技术服务(苏州)有限公司" is written in a clockwise direction. In the center of the circle is a five-pointed red star. Below the star, the text "检验检测专用章" and "Inspection & Testing Services" is written in a horizontal line. At the bottom of the circle, the text "SGS-CSTC Inspection & Testing Services (Suzhou) Co., Ltd." is written in a curved line.

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DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant2	2402	0.70	2401.65	2402.35	≥0.5	PASS
BLE_1M	Ant2	2440	0.70	2439.65	2440.34	≥0.5	PASS
BLE_1M	Ant2	2480	0.70	2479.64	2480.34	≥0.5	PASS
BLE_2M	Ant2	2402	1.18	2401.41	2402.59	≥0.5	PASS
BLE_2M	Ant2	2440	1.18	2439.41	2440.59	≥0.5	PASS
BLE_2M	Ant2	2480	1.19	2479.40	2480.59	≥0.5	PASS



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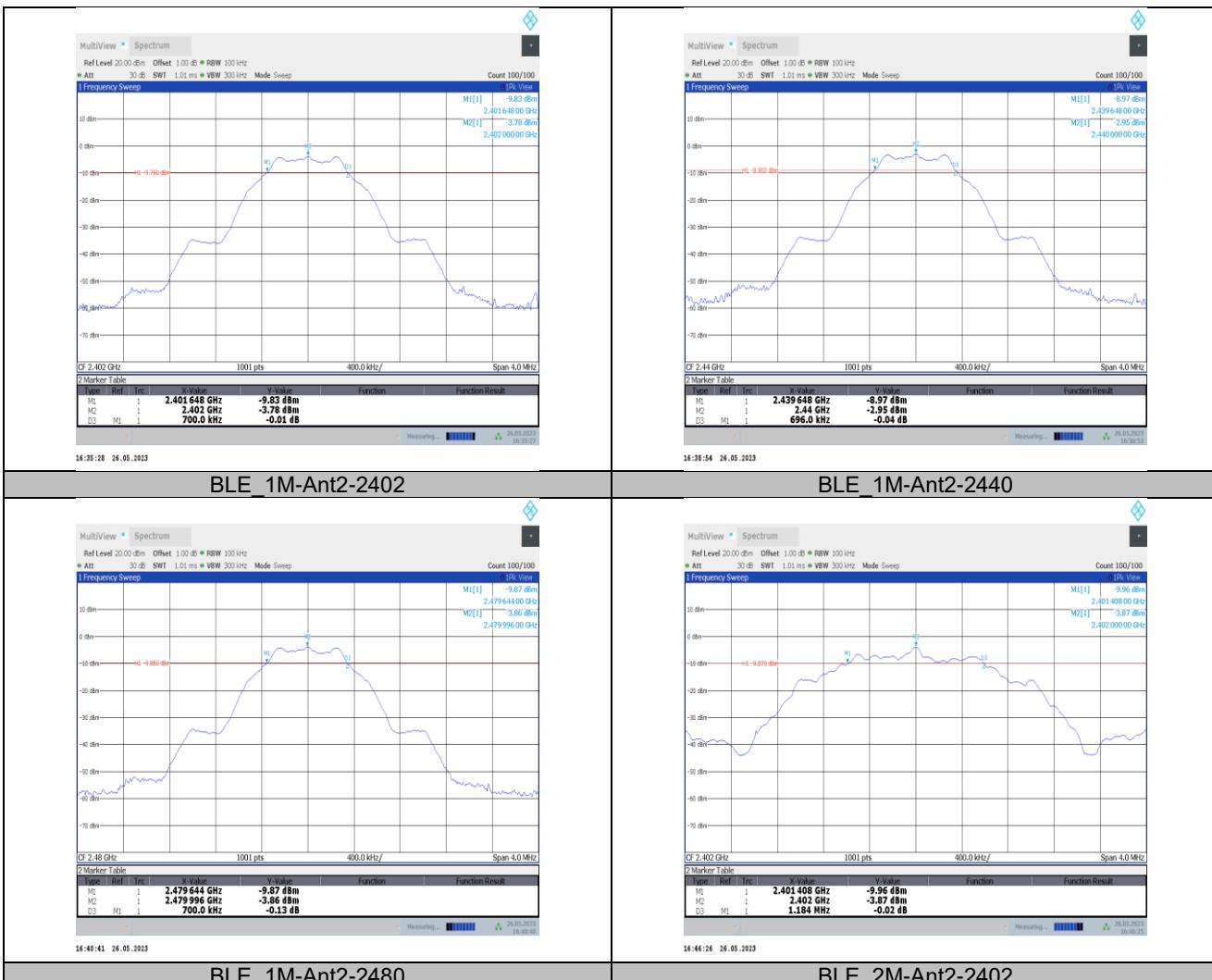
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Test Graphs



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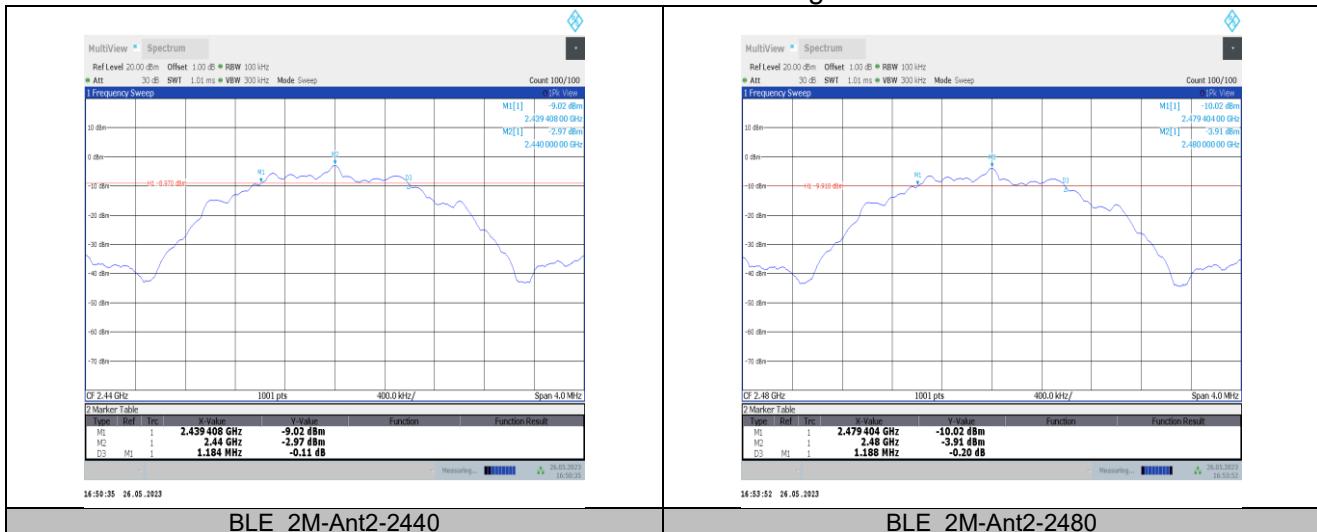


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Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant2	2402	1.038	2401.4857	2402.5237	For Report Purpose
BLE_1M	Ant2	2440	1.038	2439.4847	2440.5230	
BLE_1M	Ant2	2480	1.038	2479.4835	2480.5220	
BLE_2M	Ant2	2402	2.066	2400.9777	2403.0434	
BLE_2M	Ant2	2440	2.066	2438.9758	2441.0415	
BLE_2M	Ant2	2480	2.065	2478.9736	2481.0383	



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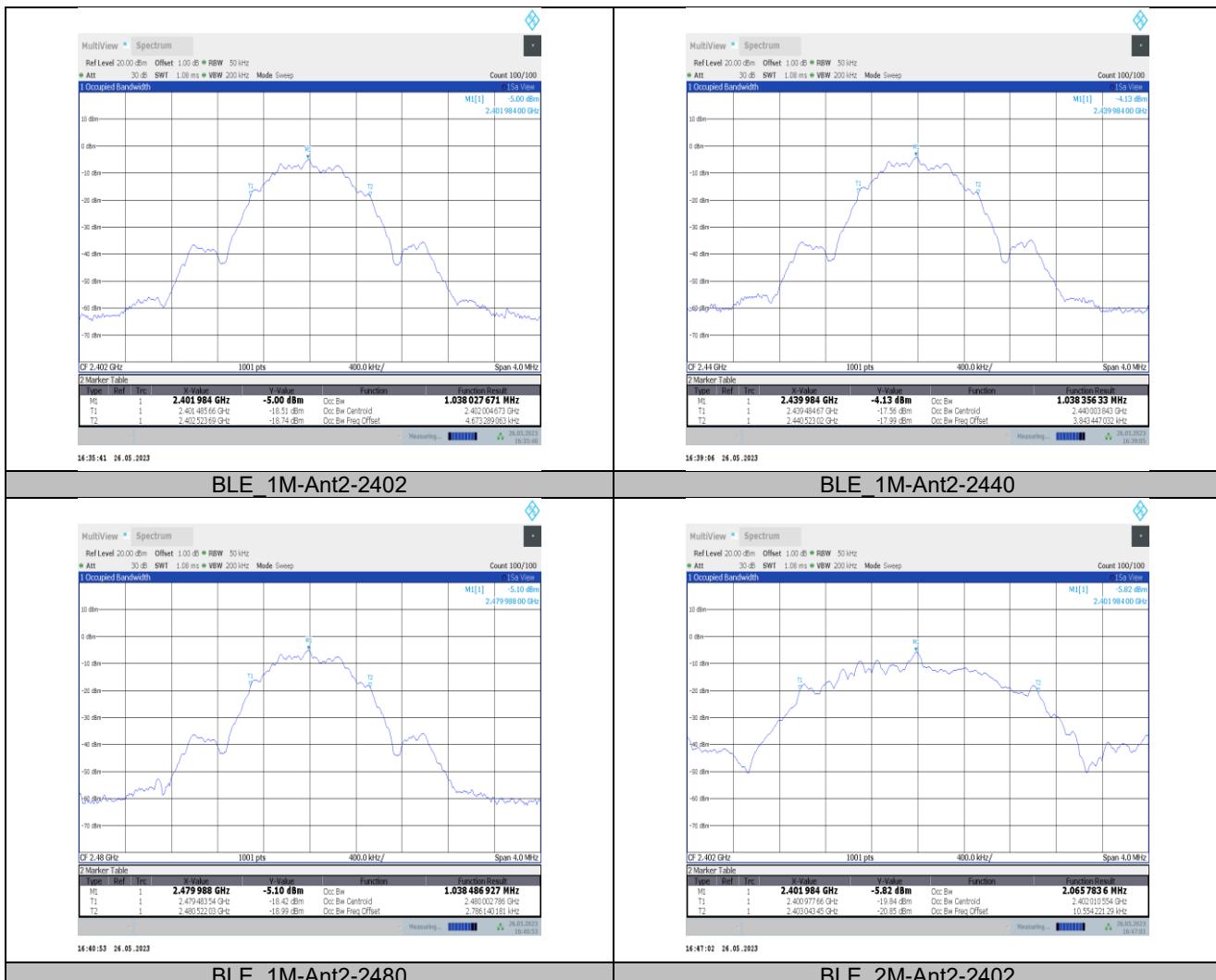
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Test Graphs



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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	Ant2	2402	-3.66	≤30	PASS
BLE_1M	Ant2	2440	-2.86	≤30	PASS
BLE_1M	Ant2	2480	-3.79	≤30	PASS
BLE_2M	Ant2	2402	-3.67	≤30	PASS
BLE_2M	Ant2	2440	-2.82	≤30	PASS
BLE_2M	Ant2	2480	-3.74	≤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	Ant2	2402	-18.21	≤8.00	PASS
BLE_1M	Ant2	2440	-17.41	≤8.00	PASS
BLE_1M	Ant2	2480	-18.34	≤8.00	PASS
BLE_2M	Ant2	2402	-20.85	≤8.00	PASS
BLE_2M	Ant2	2440	-20.02	≤8.00	PASS
BLE_2M	Ant2	2480	-20.86	≤8.00	PASS



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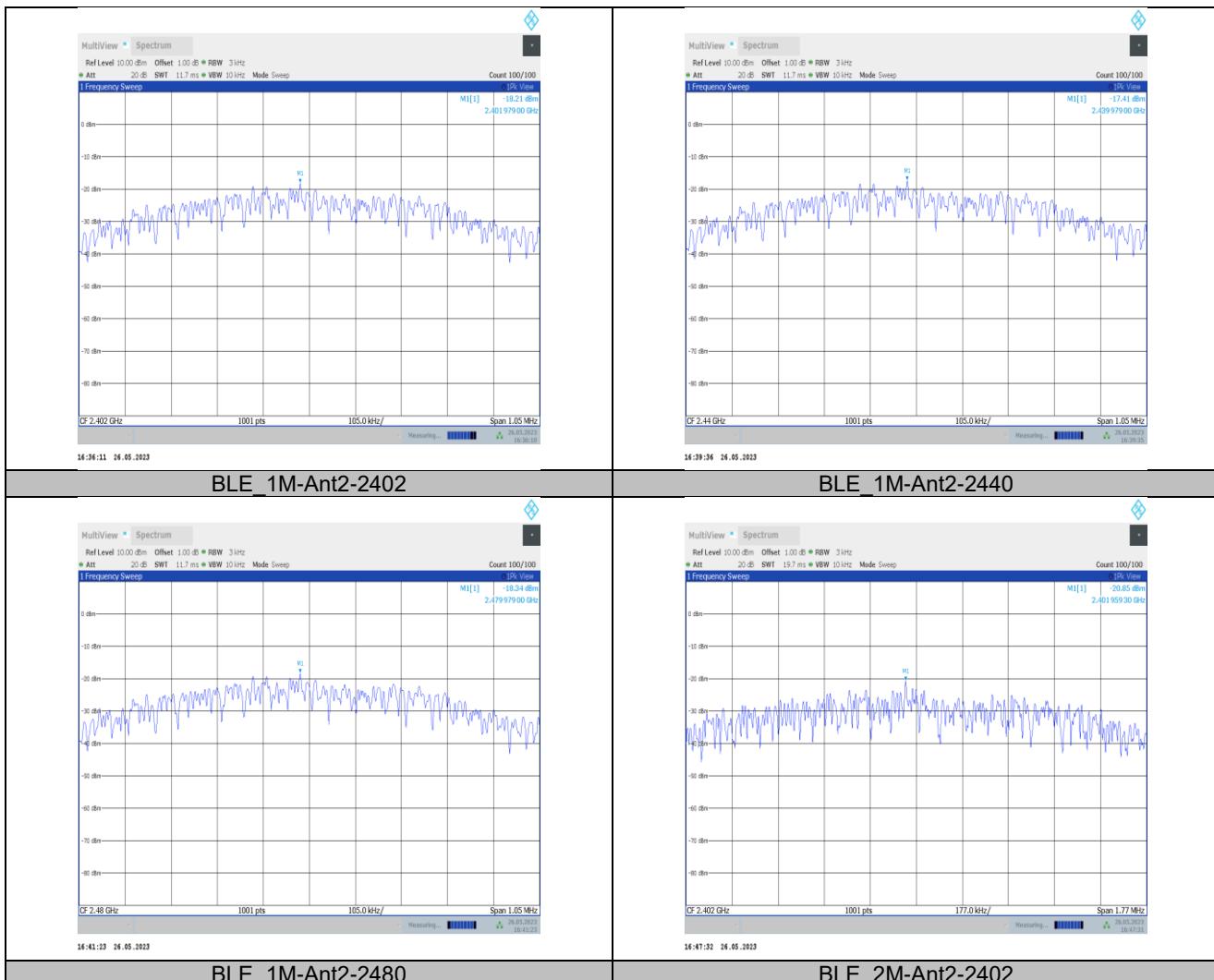
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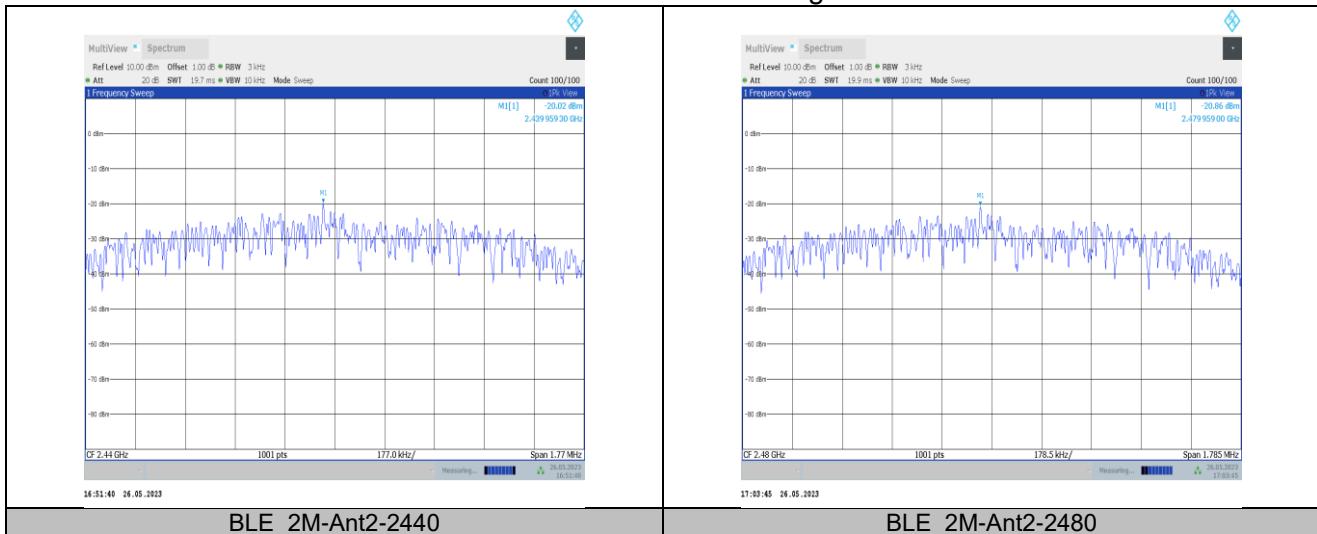
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Band edge measurements

Test Graphs



BLE_2M-Ant2-2402

BLE_2M-Ant2-2480



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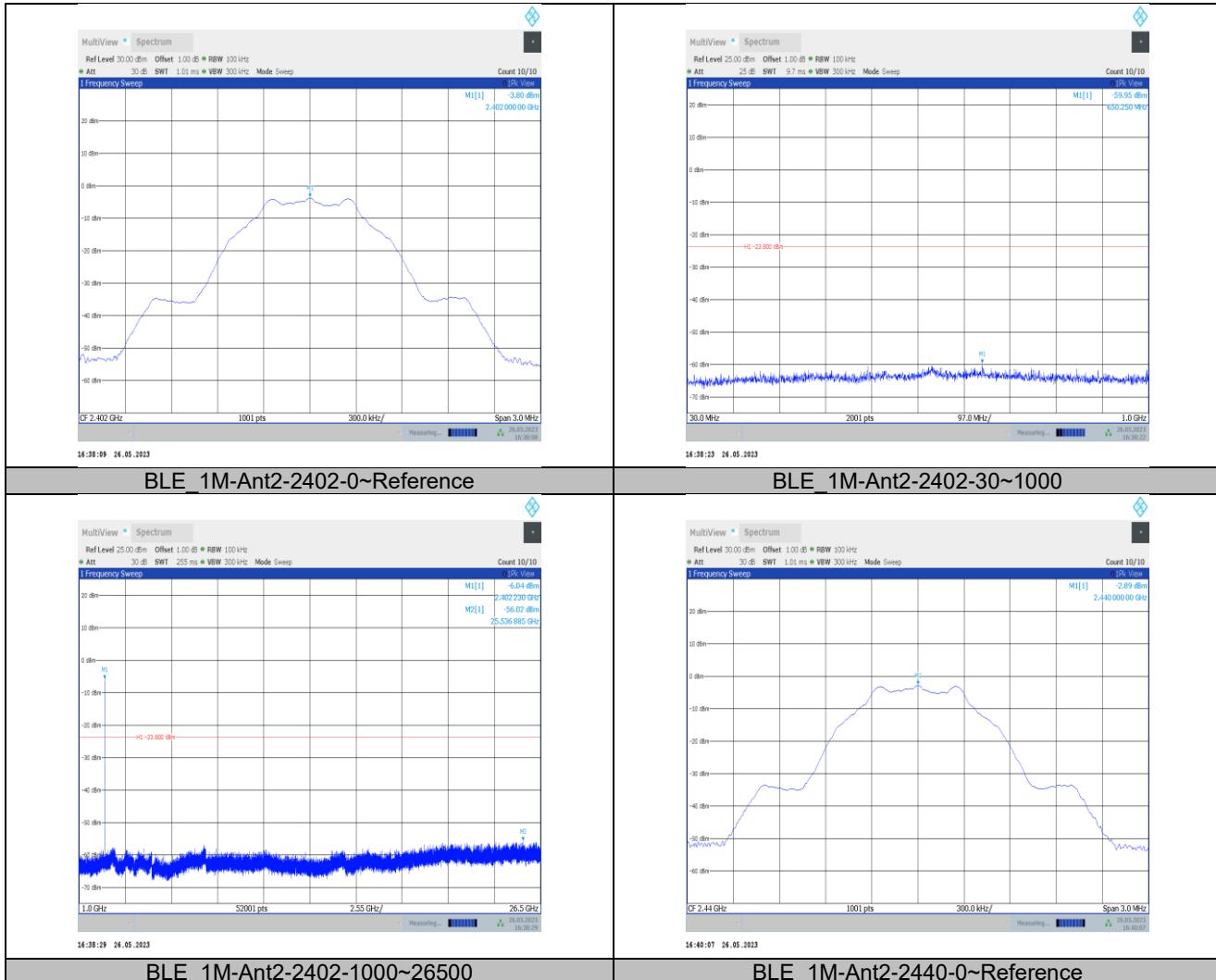
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Conducted Spurious Emission

Test Graphs



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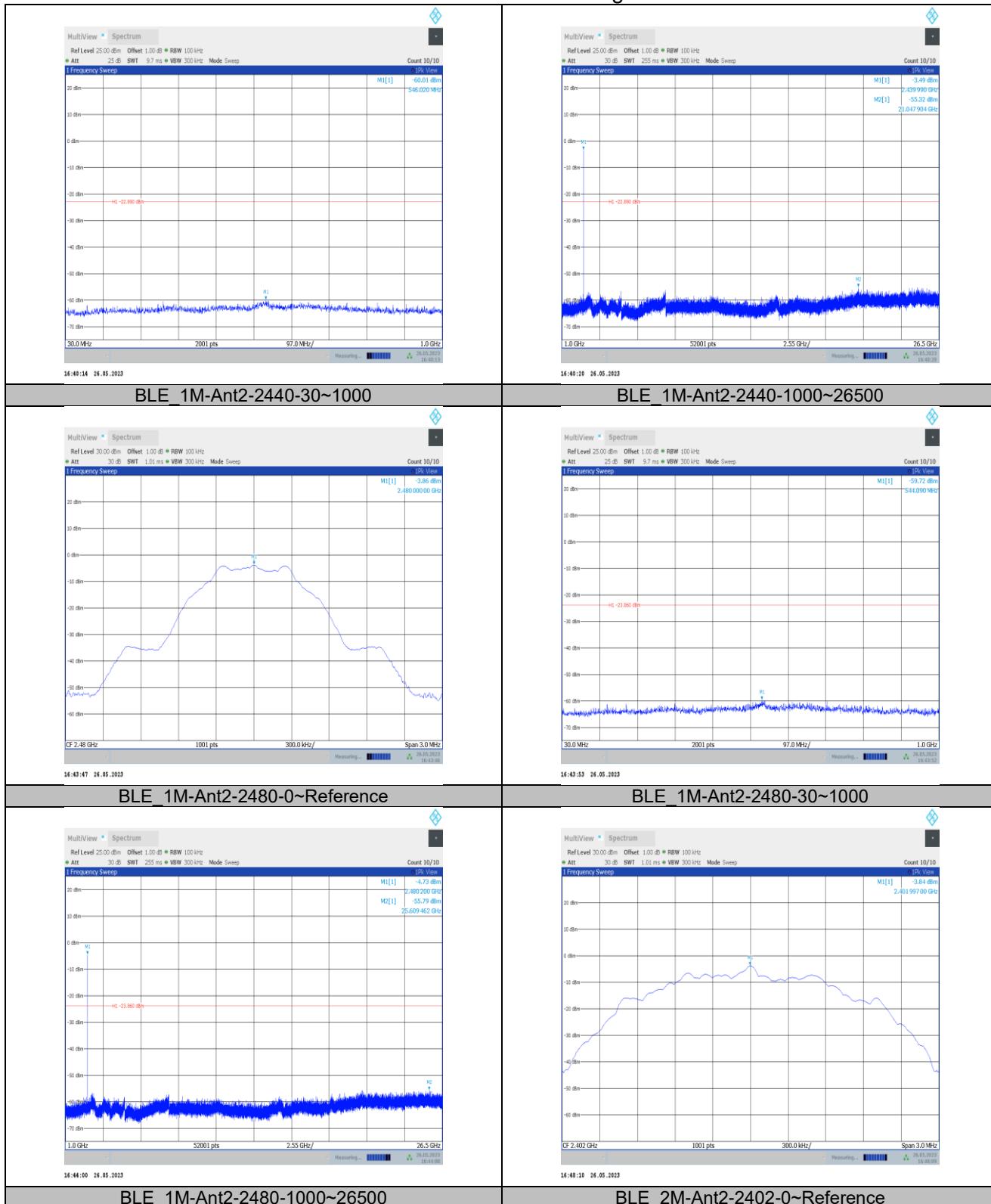
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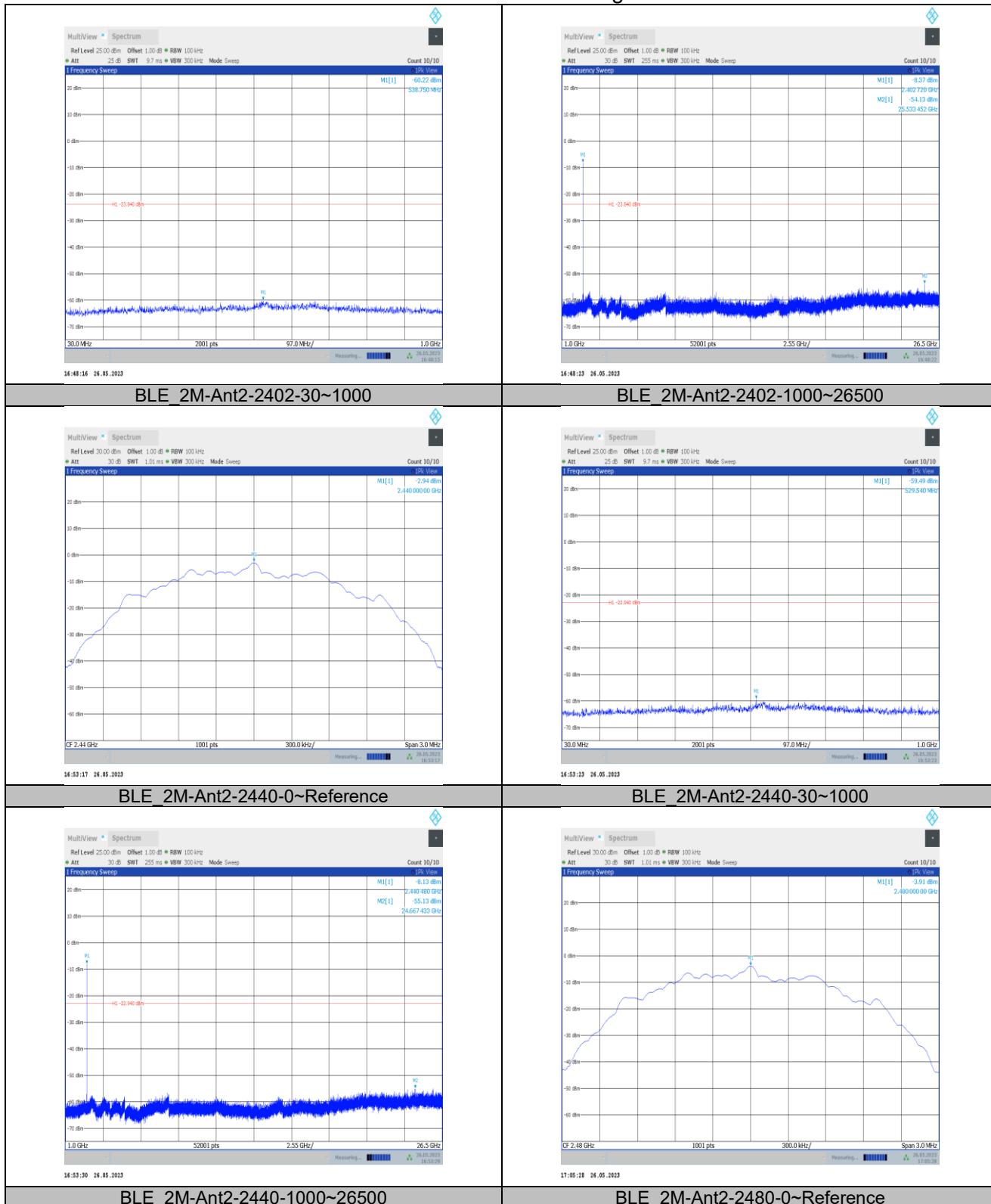
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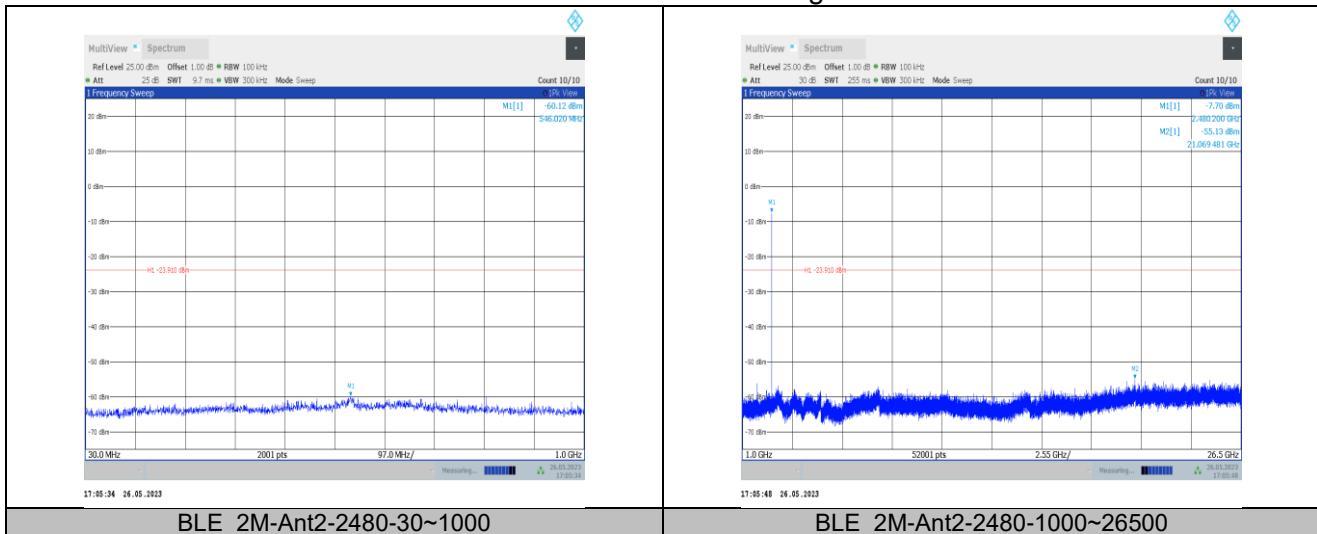
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BLE_2M-Ant2-2480-30~1000

BLE_2M-Ant2-2480-1000~26500

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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	Ant2	2402	0.38	0.63	60.32	2.20
BLE_2M	Ant2	2402	0.20	0.63	31.75	4.98

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
BLE_1M	0.38	0.63	60.32	2.63158	2.7KHz
BLE_2M	0.20	0.63	31.75	5	5.1KHz

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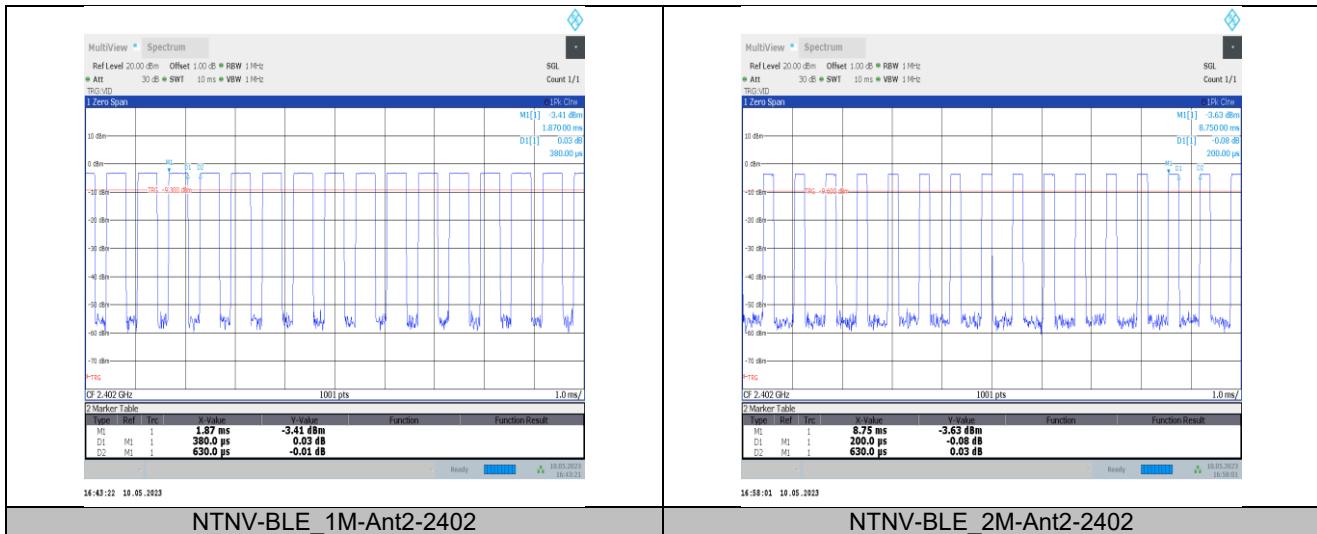


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Test Graphs



NTVN-BLE_1M-Ant2-2402

NTVN-BLE_2M-Ant2-2402

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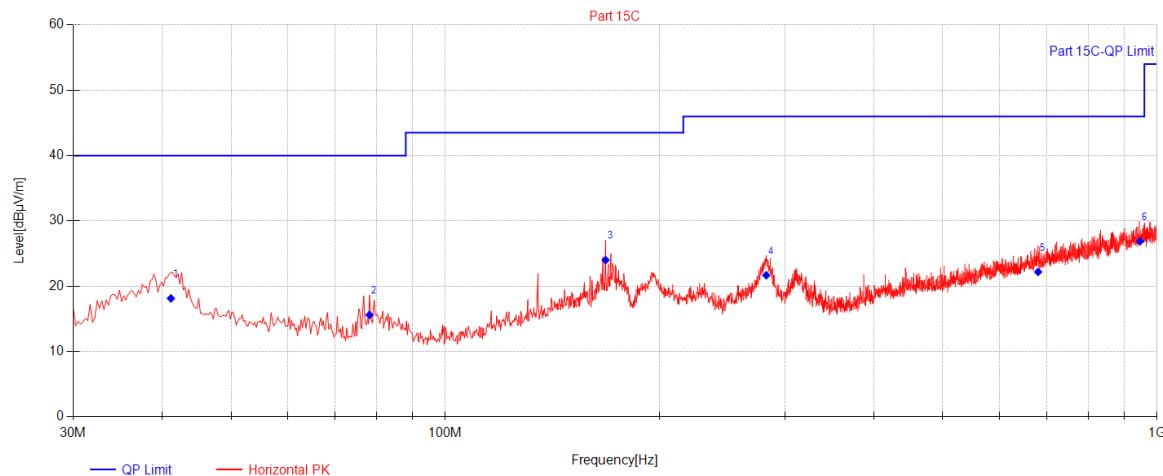
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Radiated Spurious Emissions

Radiated emission below 1GHz

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	41.155	40.41	-36.25	13.97	18.13	40.00	21.87	158	180	Horizontal
2	78.2575	41.83	-35.79	9.56	15.60	40.00	24.40	262	360	Horizontal
3	167.9825	44.82	-35.18	14.36	24.00	43.50	19.50	144	11	Horizontal
4	282.4425	43.72	-34.42	12.37	21.67	46.00	24.33	187	180	Horizontal
5	680.6275	34.74	-31.93	19.38	22.19	46.00	23.81	203	61	Horizontal
6	946.4075	35.30	-30.53	22.10	26.88	46.00	19.12	155	102	Horizontal



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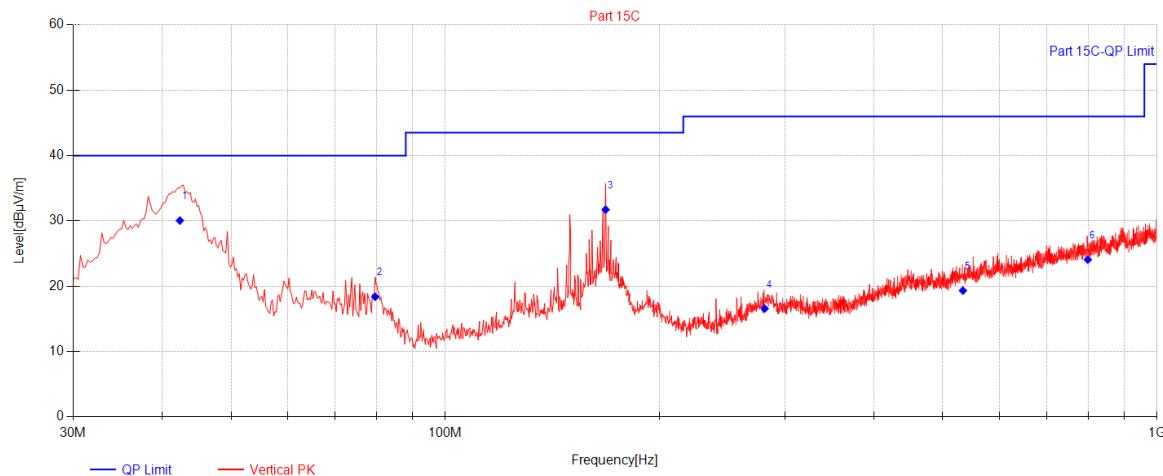
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Data List										
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1	42.3675	52.42	-36.24	13.87	30.05	40.00	9.95	152	118	Vertical
2	79.7125	44.70	-35.66	9.33	18.38	40.00	21.62	144	250	Vertical
3	167.9825	52.54	-35.18	14.36	31.72	43.50	11.78	189	0	Vertical
4	280.9875	38.74	-34.49	12.33	16.58	46.00	29.42	209	250	Vertical
5	533.6725	35.09	-32.86	17.10	19.33	46.00	26.67	166	0	Vertical
6	799.4525	34.87	-31.50	20.70	24.06	46.00	21.94	214	4	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:

$$\text{Value} = \text{Reading(dB}\mu\text{V)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit(dB}\mu\text{V/m)} - \text{Value(dB}\mu\text{V/m)}$$
- All channels have been tested, but only the worst case data displayed in this report.

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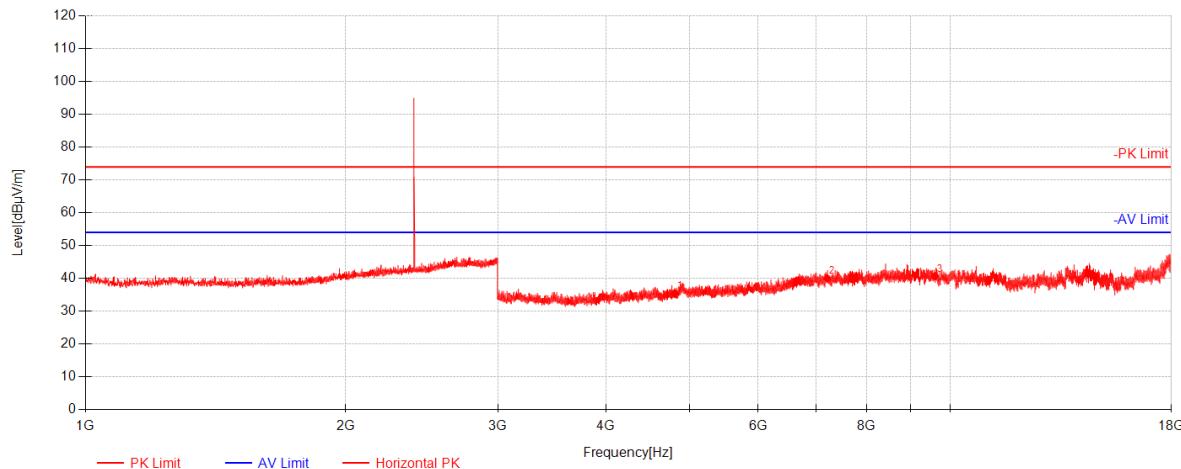


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Transmitter emission Above 1GHz

BLE 1M_Channel 00



Data List											
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1	4804.0000	48.59	32.33	-45.54	35.38	74.00	38.62	182	360	Horizontal	
2	7206.0000	46.85	36.60	-43.44	40.01	74.00	33.99	169	139	Horizontal	
3	9608.0000	41.80	38.43	-39.65	40.58	74.00	33.42	236	139	Horizontal	



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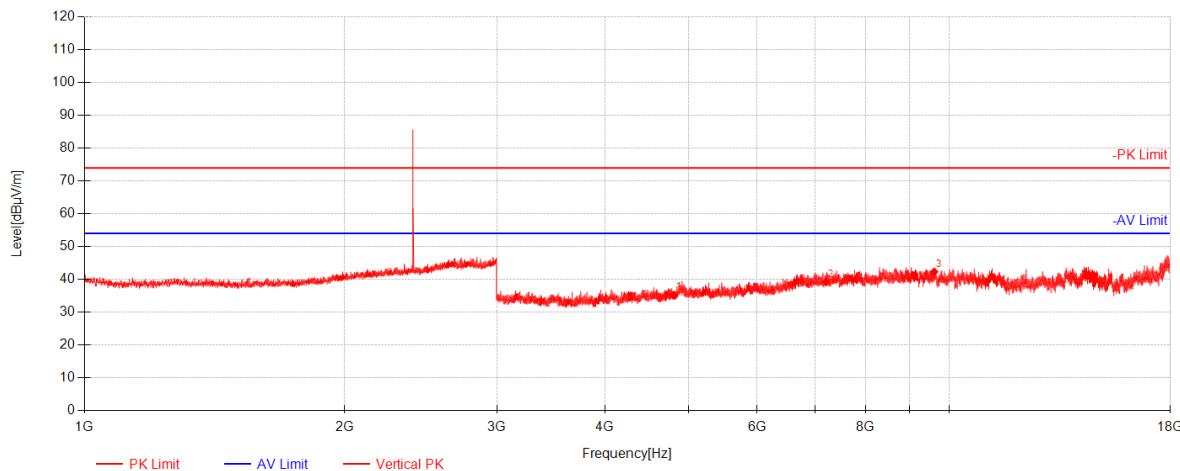
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BLE 1M_Channel 00



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4804.0000	48.43	32.33	-45.54	35.22	74.00	38.78	188	360	Vertical	
2	7206.0000	46.01	36.60	-43.44	39.17	74.00	34.83	162	167	Vertical	
3	9608.0000	43.50	38.43	-39.65	42.28	74.00	31.72	231	359	Vertical	



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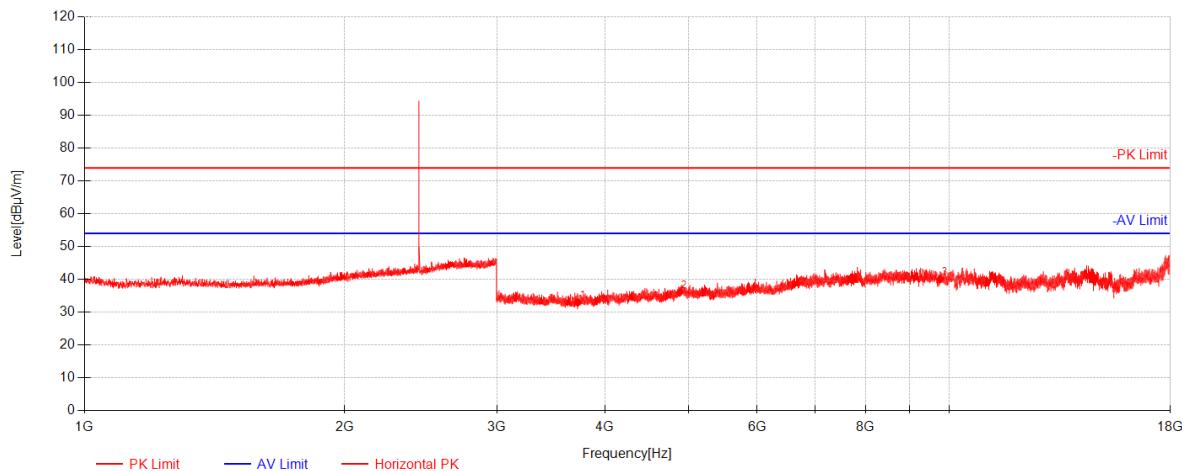
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BLE 1M_Channel 19



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3720.0000	48.42	30.04	-45.58	32.88	74.00	41.12	154	359	Horizontal	
2	4880.0000	48.95	32.54	-45.53	35.96	74.00	38.04	185	360	Horizontal	
3	9760.0000	41.22	38.26	-39.46	40.02	74.00	33.98	169	354	Horizontal	



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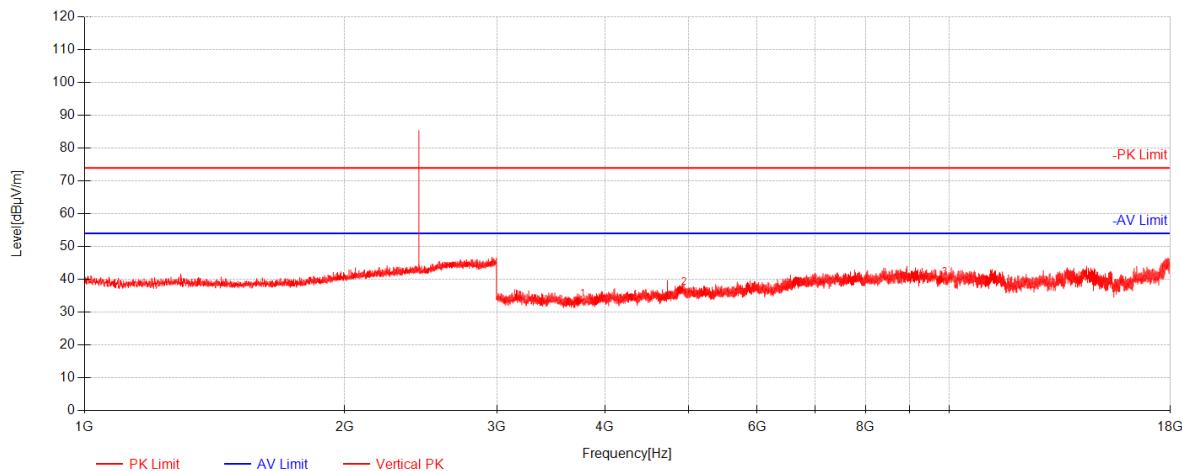
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BLE 1M_Channel 19



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3720.0000	48.90	30.04	-45.58	33.36	74.00	40.64	166	252	Vertical	
2	4880.0000	49.79	32.54	-45.53	36.80	74.00	37.20	213	4	Vertical	
3	9760.0000	41.10	38.26	-39.46	39.90	74.00	34.10	178	140	Vertical	



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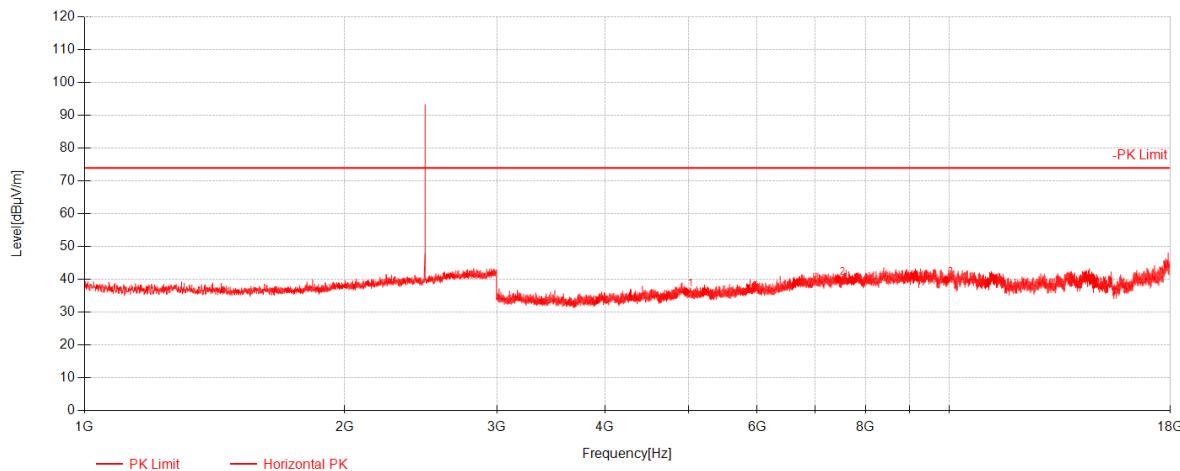
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BLE 1M_Channel 39



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960.0000	49.10	32.77	-45.60	36.27	74.00	37.73	189	252	Horizontal	
2	7440.0000	46.82	36.47	-43.30	39.99	74.00	34.01	271	182	Horizontal	
3	9920.0000	40.84	38.38	-39.31	39.91	74.00	34.09	155	163	Horizontal	



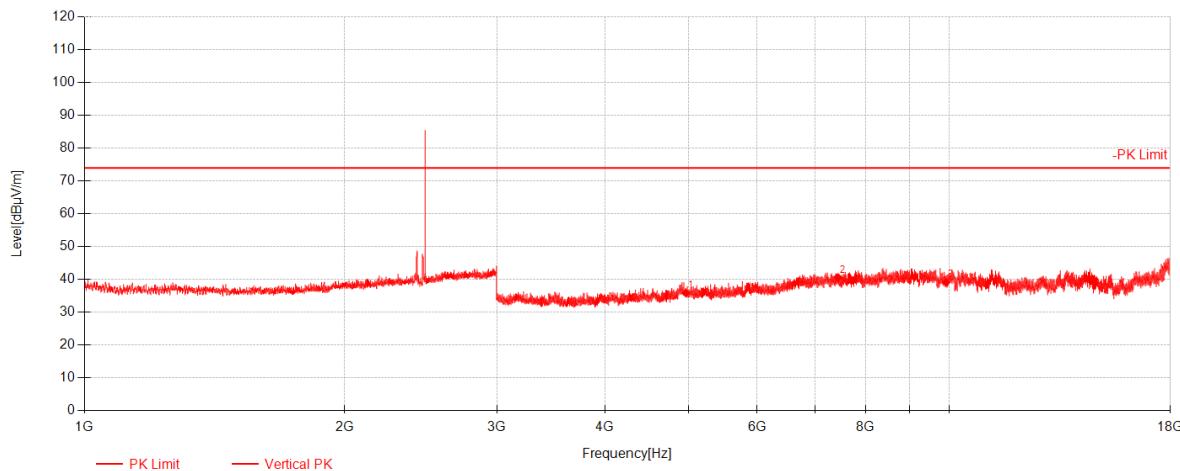
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BLE 1M_Channel 39



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4960.0000	48.69	32.77	-45.60	35.86	74.00	38.14	188	72	Vertical	
2	7440.0000	47.39	36.47	-43.30	40.56	74.00	33.44	103	124	Vertical	
3	9920.0000	40.02	38.38	-39.31	39.09	74.00	34.91	244	4	Vertical	



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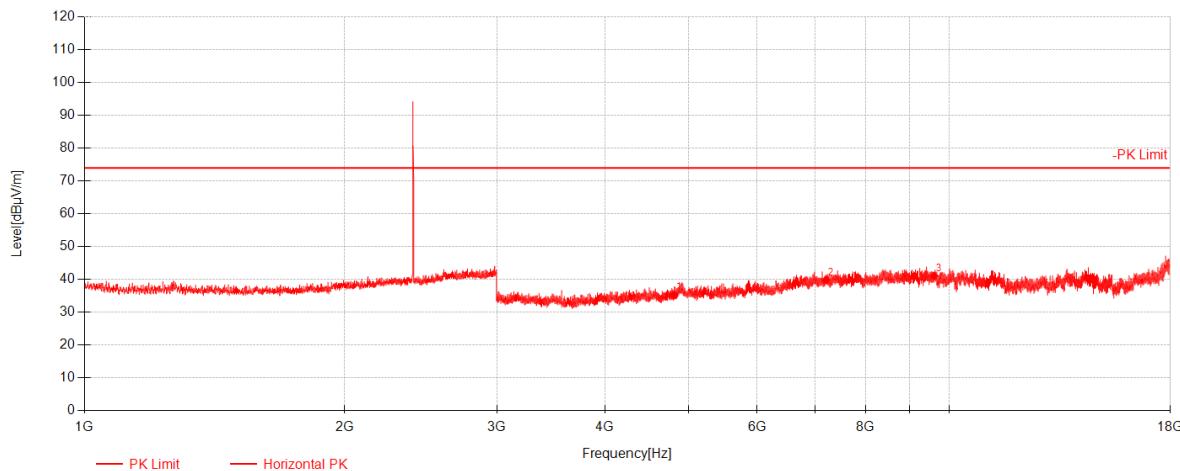
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BLE 2M_Channel 00



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	4804.0000	48.41	32.33	-45.54	35.20	74.00	38.80	154	341	Horizontal	
2	7206.0000	46.65	36.60	-43.44	39.81	74.00	34.19	221	360	Horizontal	
3	9608.0000	42.22	38.43	-39.65	41.00	74.00	33.00	162	325	Horizontal	



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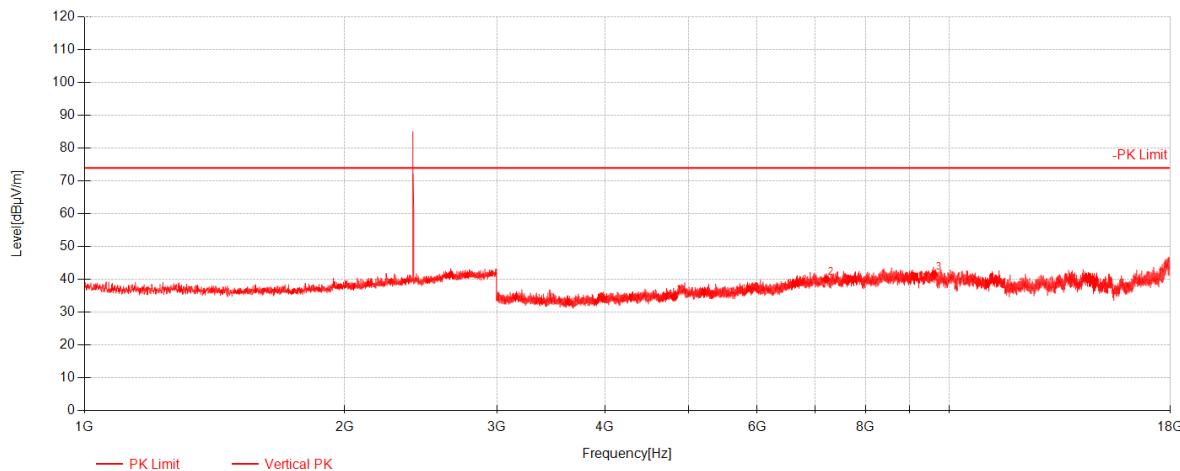
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BLE 2M_Channel 00



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	47.78	32.33	-45.54	34.57	74.00	39.43	166	340	Vertical	
2	7206.0000	46.85	36.60	-43.44	40.01	74.00	33.99	219	197	Vertical	
3	9608.0000	42.67	38.43	-39.65	41.45	74.00	32.55	194	3	Vertical	



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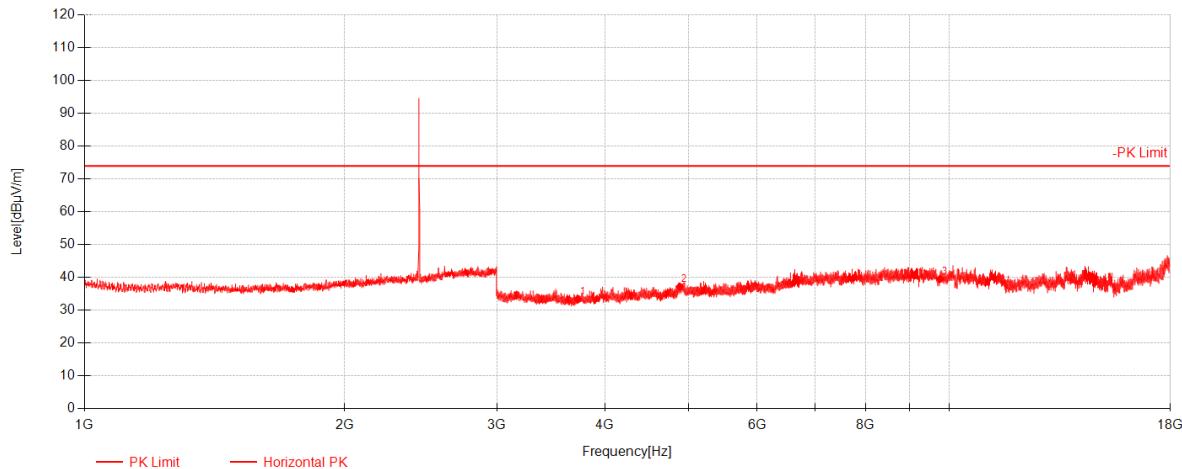
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NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	3720.0000	48.83	30.04	-45.58	33.29	74.00	40.71	156	216	Horizontal	
2	4880.0000	50.12	32.54	-45.53	37.13	74.00	36.87	229	216	Horizontal	
3	9760.0000	40.74	38.26	-39.46	39.54	74.00	34.46	197	233	Horizontal	



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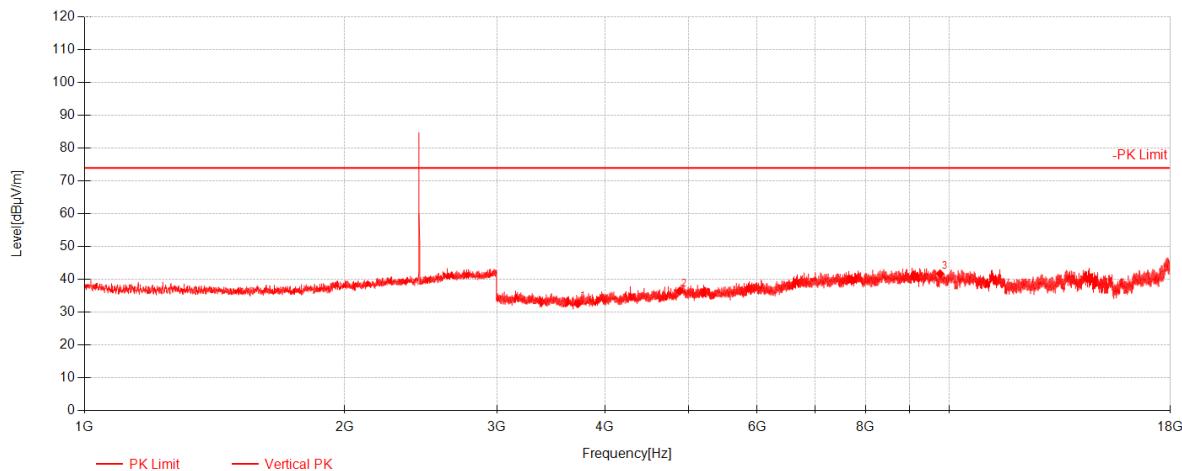
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1	3720.0000	48.05	30.04	-45.58	32.51	74.00	41.49	188	18	Vertical	
2	4880.0000	49.39	32.54	-45.53	36.40	74.00	37.60	284	305	Vertical	
3	9760.0000	42.92	38.26	-39.46	41.72	74.00	32.28	162	342	Vertical	



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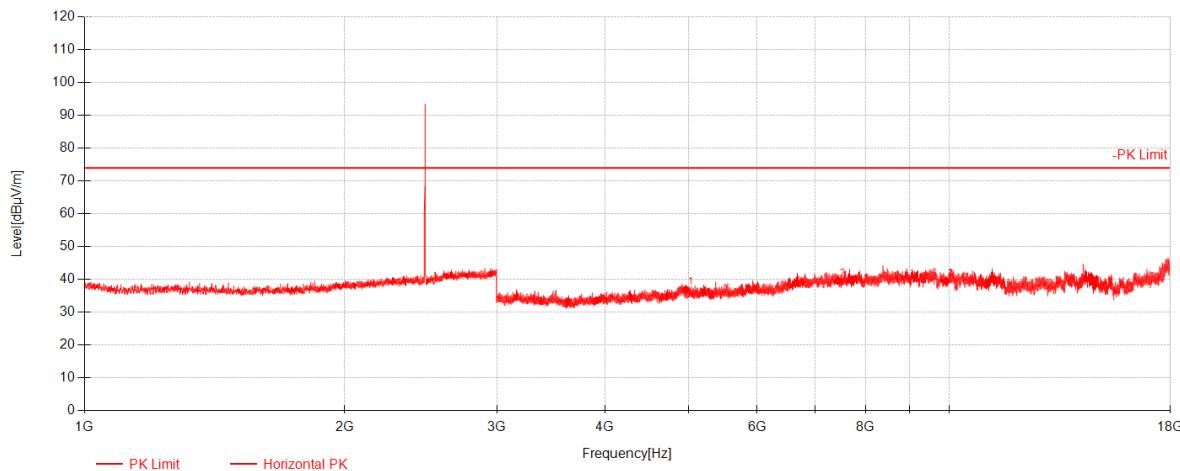
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Data List											
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1	4960.0000	49.79	32.77	-45.60	36.96	74.00	37.04	162	324	Horizontal	
2	7440.0000	46.35	36.47	-43.30	39.52	74.00	34.48	177	288	Horizontal	
3	9920.0000	40.32	38.38	-39.31	39.39	74.00	34.61	219	360	Horizontal	



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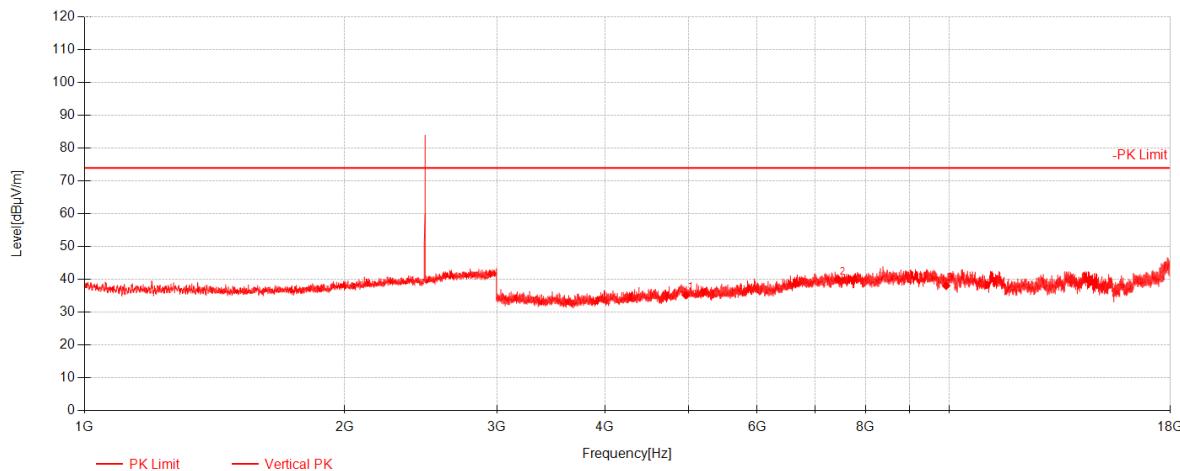
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1	4960.0000	48.07	32.77	-45.60	35.24	74.00	38.76	221	18	Vertical	
2	7440.0000	46.83	36.47	-43.30	40.00	74.00	34.00	163	352	Vertical	
3	9920.0000	38.99	38.38	-39.31	38.06	74.00	35.94	159	352	Vertical	

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:

$$\text{Level} = \text{Reading(dBμV)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit(dBμV/m)} - \text{Level(dBμV/m)}$$
- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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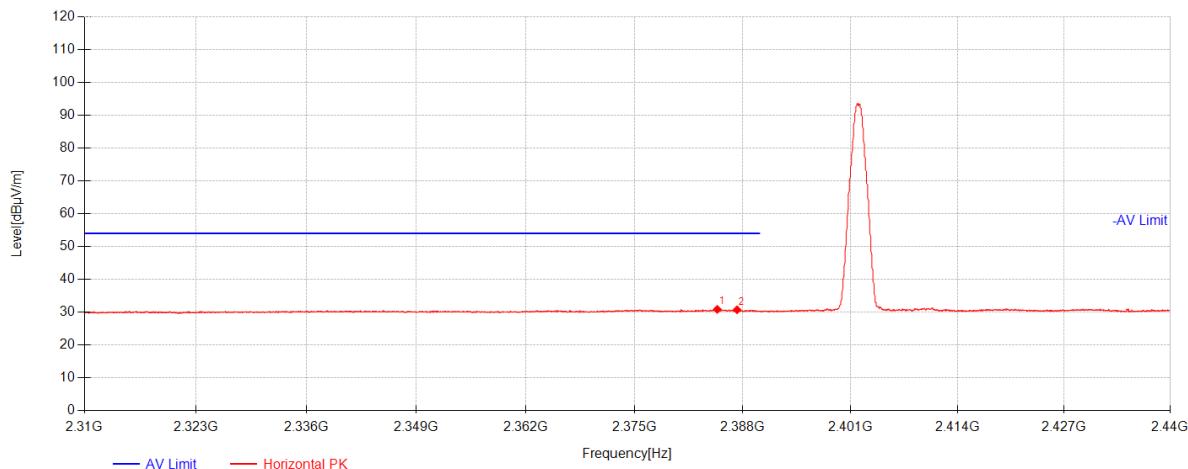
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Restricted bands around fundamental frequency

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	2384.9233	26.98	27.43	-23.57	30.84	54.00	23.16	255	147	Horizontal
2	2387.3067	26.85	27.43	-23.57	30.71	54.00	23.29	255	147	Horizontal



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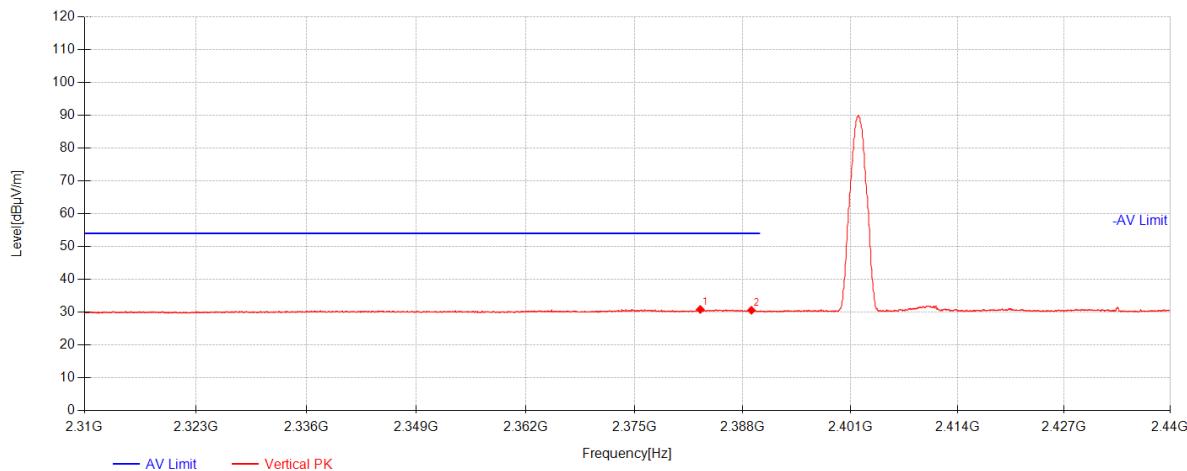
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BLE 1M_Channel 00



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2382.8867	26.95	27.43	-23.57	30.81	54.00	23.19	163	78	Vertical	
2	2389.04	26.70	27.43	-23.57	30.56	54.00	23.44	163	78	Vertical	



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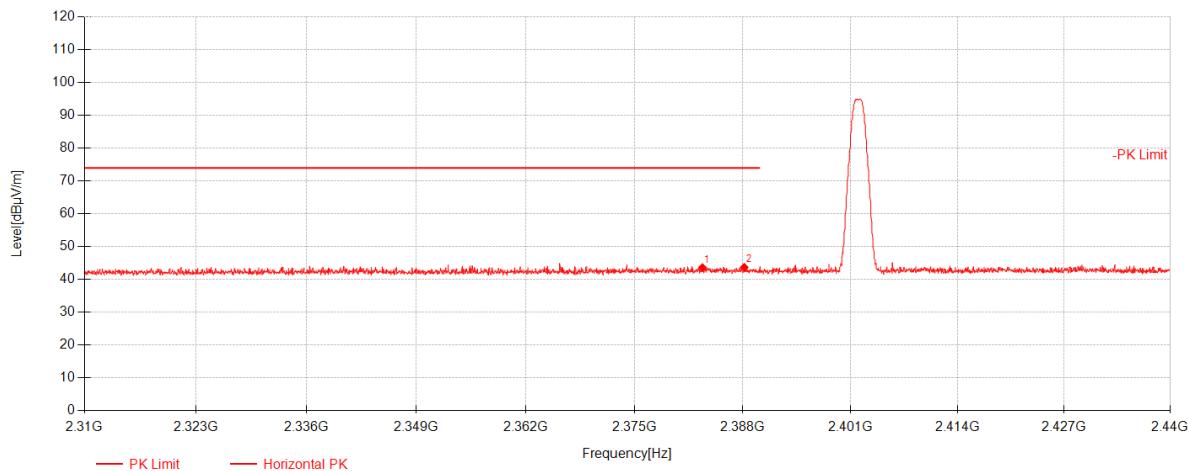
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BLE 1M_Channel 00

Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2383.1467	39.73	27.43	-23.57	43.59	74.00	30.41	255	147	Horizontal	
2	2388.1733	39.82	27.43	-23.57	43.68	74.00	30.32	255	147	Horizontal	



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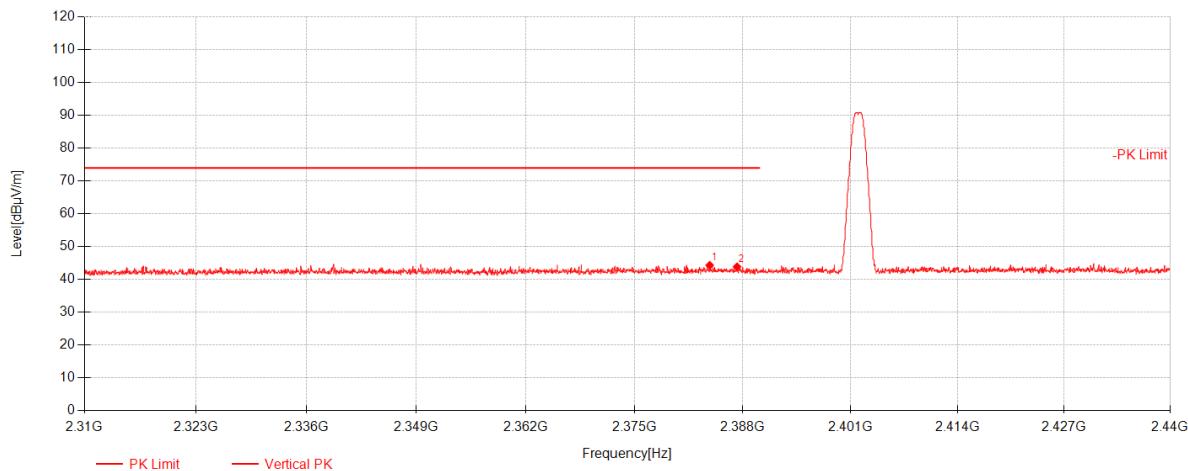
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BLE 1M_Channel 00

Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2384.0133	40.45	27.43	-23.57	44.31	74.00	29.69	163	78	Vertical	
2	2387.3067	39.97	27.43	-23.57	43.83	74.00	30.17	163	78	Vertical	



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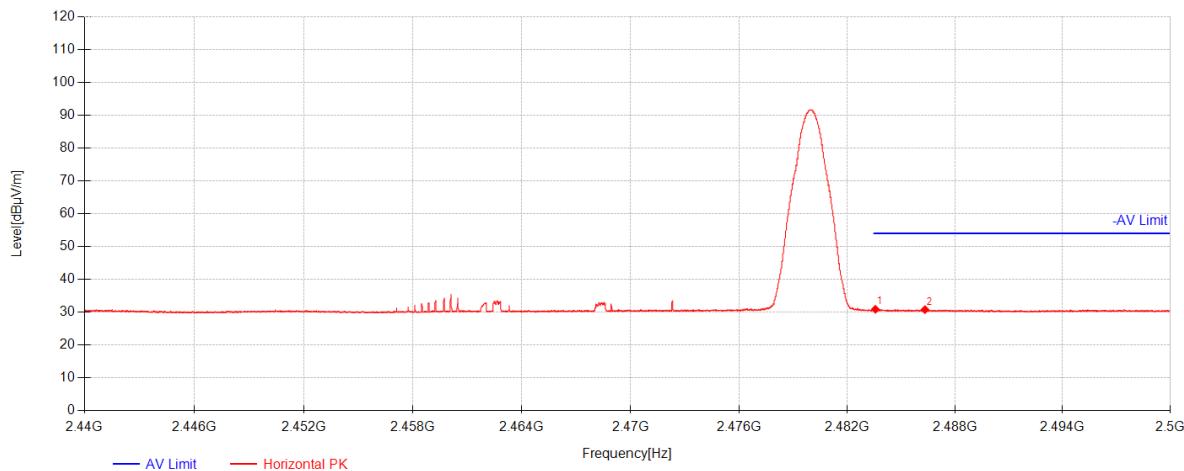
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BLE 1M_Channel 39



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	2483.575	26.70	27.72	-23.54	30.87	54.00	23.13	155	20	Horizontal	
2	2486.335	26.58	27.72	-23.54	30.76	54.00	23.24	155	20	Horizontal	



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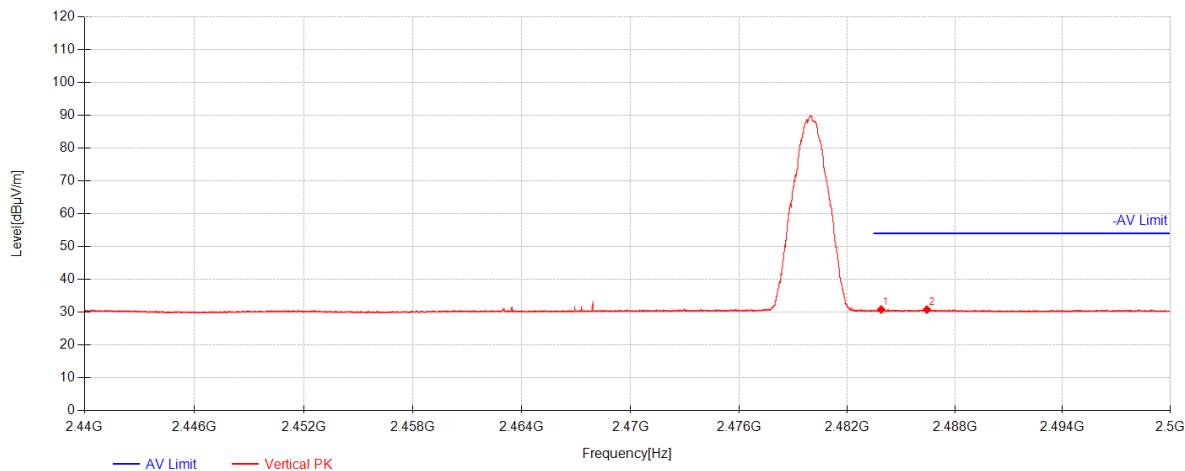
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NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.8975	26.62	27.72	-23.54	30.79	54.00	23.21	221	234	Vertical	
2	2486.44	26.57	27.73	-23.54	30.75	54.00	23.25	221	234	Vertical	



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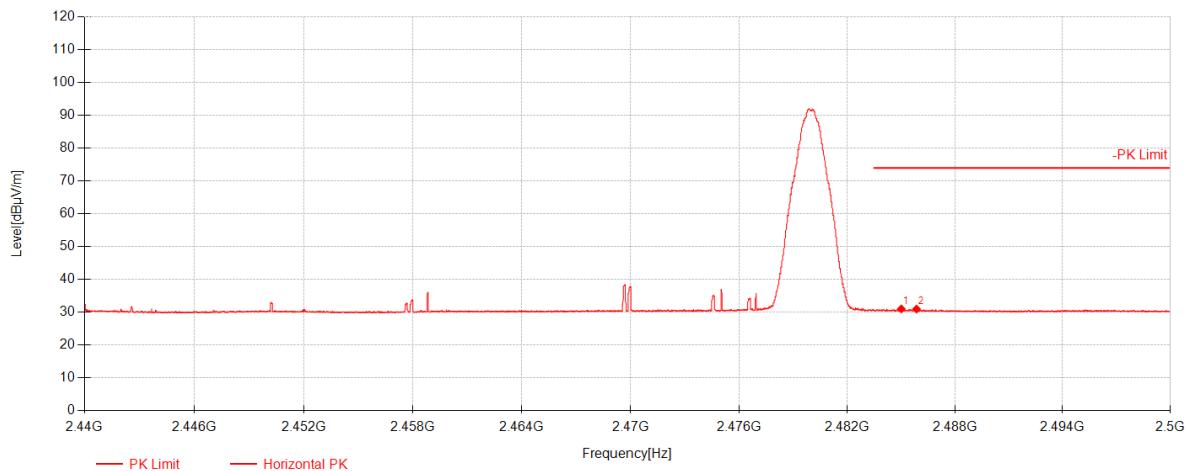
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BLE 1M_Channel 39



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	2485.015	26.80	27.72	-23.54	30.98	74.00	43.02	155	20	Horizontal	
2	2485.8625	26.76	27.72	-23.54	30.94	74.00	43.06	155	20	Horizontal	



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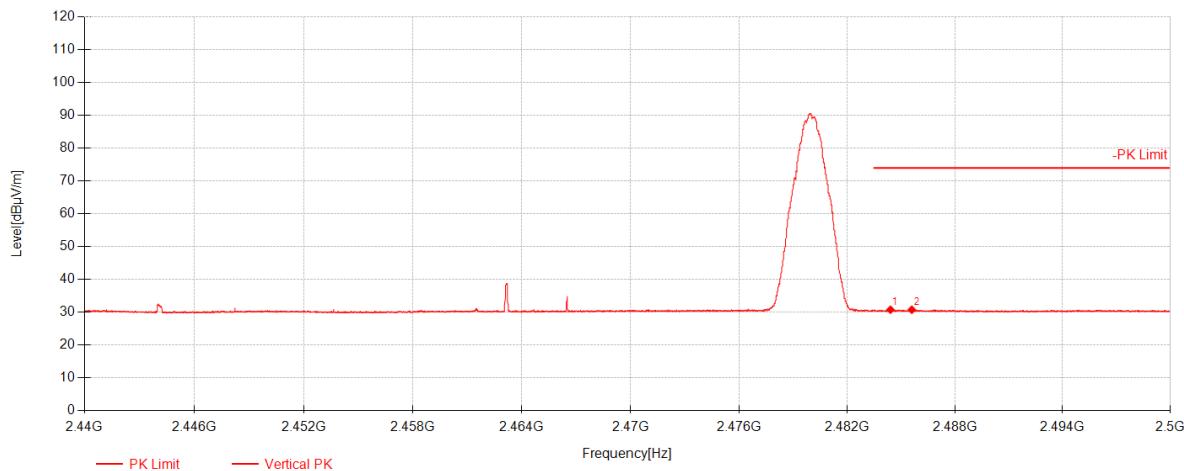
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Data List											
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1	2484.415	26.56	27.72	-23.54	30.73	74.00	43.27	221	234	Vertical	
2	2485.6	26.54	27.72	-23.54	30.72	74.00	43.28	221	234	Vertical	



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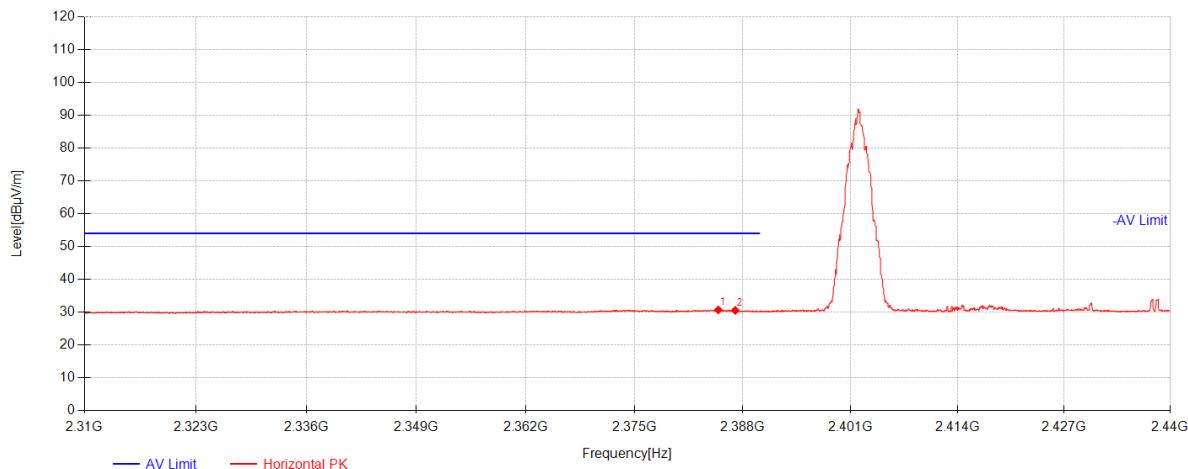
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BLE 2M_Channel 00



Data List											
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1	2385.0533	26.82	27.43	-23.57	30.68	54.00	23.32	106	213	Horizontal	
2	2387.09	26.66	27.43	-23.57	30.52	54.00	23.48	106	213	Horizontal	



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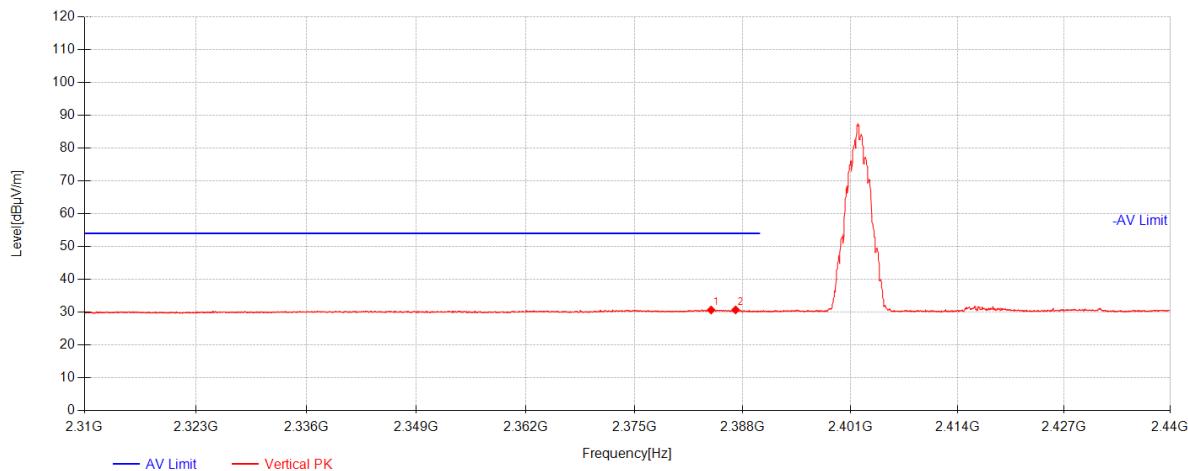
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1	2384.1867	26.79	27.43	-23.57	30.65	54.00	23.35	217	48	Vertical	
2	2387.1333	26.82	27.43	-23.57	30.68	54.00	23.32	217	48	Vertical	



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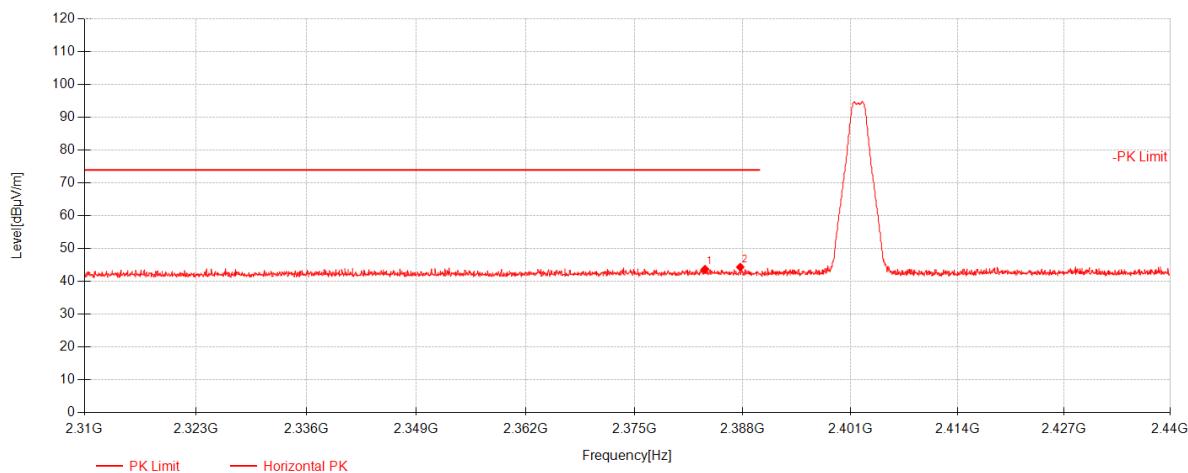
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South No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
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BLE 2M_Channel 00

Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2383.45	39.85	27.43	-23.57	43.71	74.00	30.29	106	213	Horizontal	
2	2387.6967	40.48	27.43	-23.57	44.34	74.00	29.66	106	213	Horizontal	



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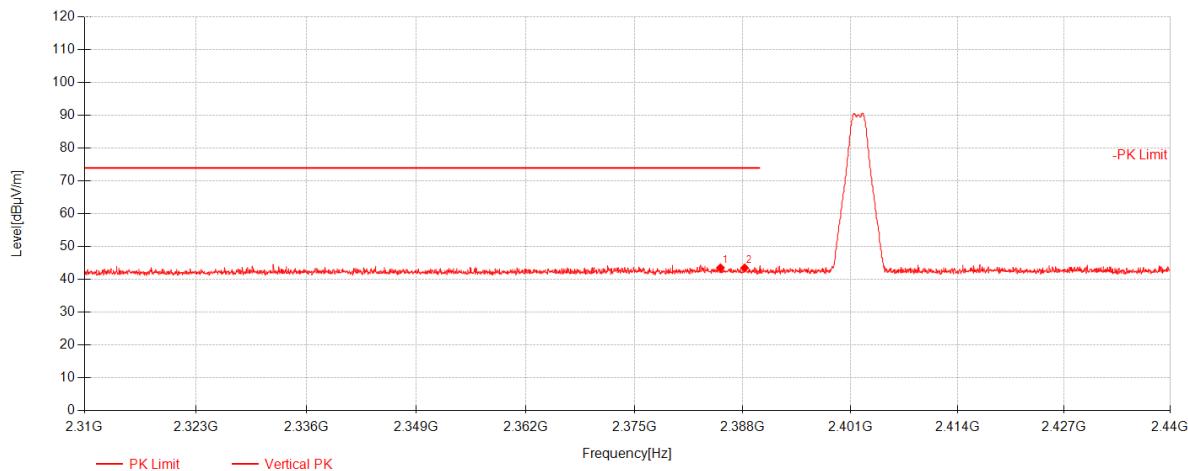
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BLE 2M_Channel 00

Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2385.3133	39.67	27.43	-23.57	43.53	74.00	30.47	217	48	Vertical	
2	2388.2167	39.63	27.43	-23.57	43.49	74.00	30.51	217	48	Vertical	



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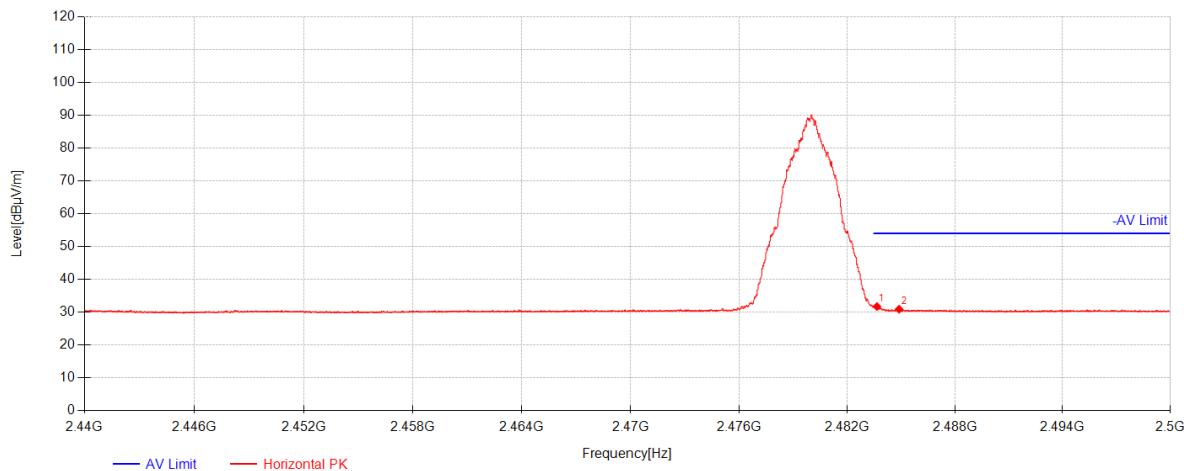
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BLE 2M_Channel 39

Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.665	27.54	27.72	-23.54	31.71	54.00	22.29	177	281	Horizontal	
2	2484.895	26.71	27.72	-23.54	30.89	54.00	23.11	177	281	Horizontal	



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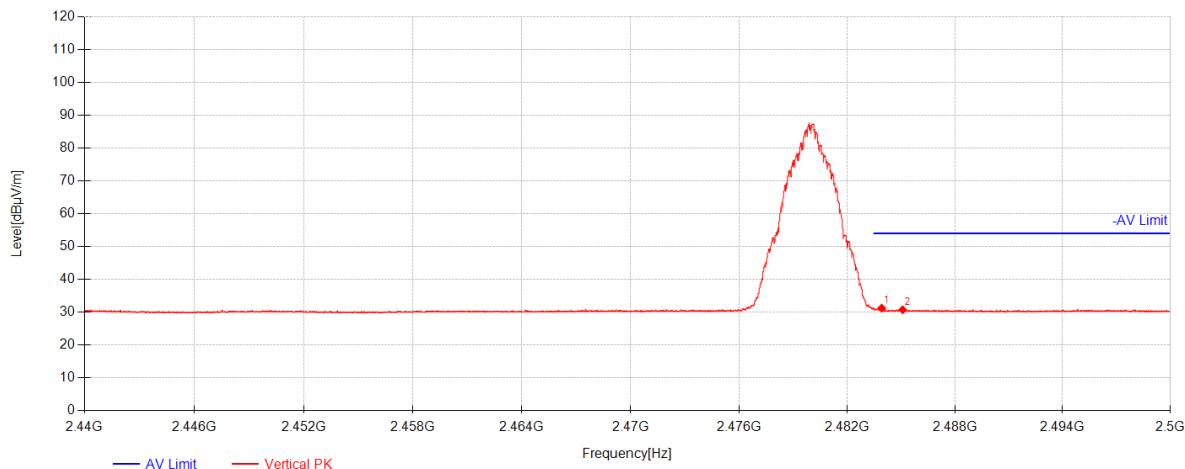
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Data List											
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.9275	27.05	27.72	-23.54	31.22	54.00	22.78	188	249	Vertical	
2	2485.09	26.55	27.72	-23.54	30.73	54.00	23.27	188	249	Vertical	



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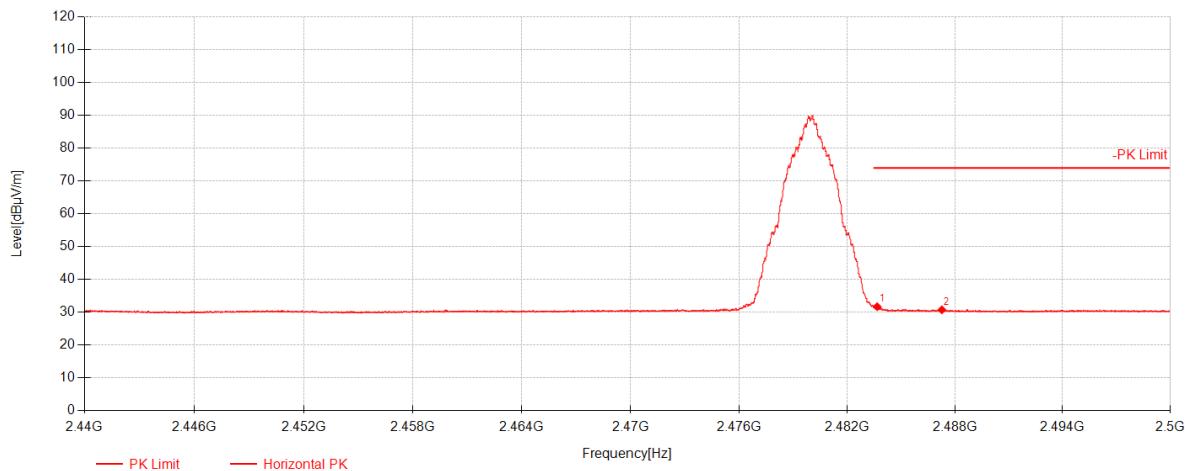
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BLE 2M_Channel 39



Data List											
NO.	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2483.6725	27.49	27.72	-23.54	31.66	74.00	42.34	177	281	Horizontal	
2	2487.2725	26.52	27.73	-23.54	30.70	74.00	43.30	177	281	Horizontal	



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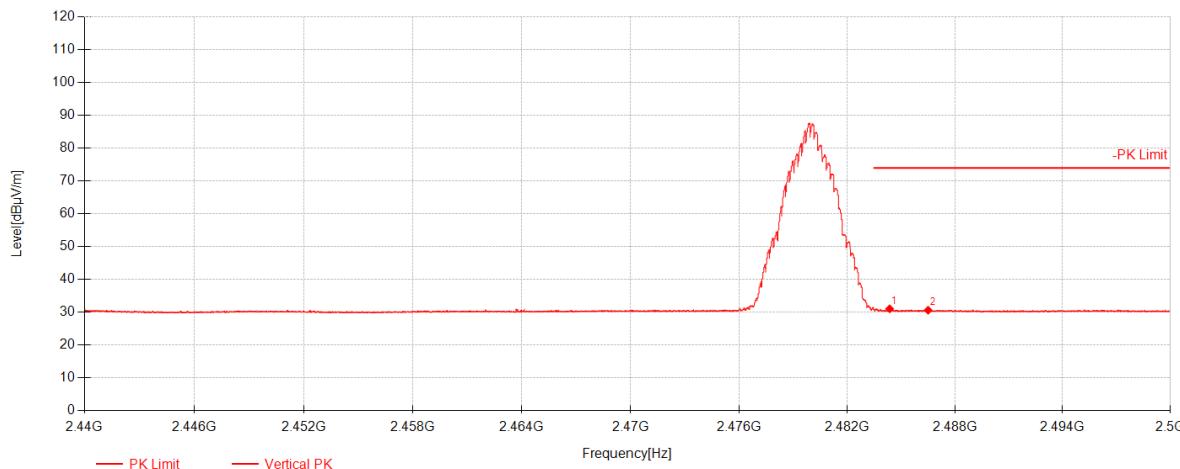
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BLE 2M_Channel 39



Data List											
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1	2484.37	26.84	27.72	-23.54	31.01	74.00	42.99	188	249	Vertical	
2	2486.5075	26.41	27.73	-23.54	30.59	74.00	43.41	188	249	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:

$$\text{Level} = \text{Reading(dBμV)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{Margin} = \text{Limit(dBμV/m)} - \text{Level(dBμV/m)}$$
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---



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