

Report No.: SUAR/2021/C000304

Rev.: 01

Page: 1 of 124

TEST REPORT

Application No.: AR/2021/C0003

Applicant: Xiaomi Communications Co., Ltd.

Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer: Xiaomi Communications Co., Ltd.

Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

EUT Description: Mobile Phone

Model No.: 22021211RG

Brand Name: POCO

FCC ID: 2AFZZ211RG

Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C

Date of Receipt: 2022/1/14

Date of Test: 2022/1/28 to 2022/2/21

Date of Issue: 2022/2/22

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

Authorized Signature:

Panta Sun
Wireless Laboratory Manager



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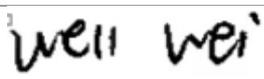
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/2/22		Original

Prepared By		 <hr/> (Weller Liu) / Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS



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3 General Information

3.1 Details of Client

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

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (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:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

3.3 Test Facility

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

<ul style="list-style-type: none"> 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:	Mobile Phone		
Model No.:	22021211RG		
Brand Name:	POCO		
Hardware Version:	P2		
Software Version:	MIUI 13		
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 applicant		
	1M PHY	2M PHY	
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module		
Antenna Type:	PIFA Antenna		
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client		
	-1.6dBi(ANT16); -0.24dBi(ANT18);		
RF Cable*:	<input checked="" type="checkbox"/> Provided by client		
	1dB(Below 1GHz)	1.2dB (1~2GHz)	2.0 dB(Above 2GHz)
Remark:	*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.		



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
LTNV	0	3.87
HTNV	40	3.87

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

3.6 Description of Support Units

The EUT has been tested 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(c)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -1.6dBi (ANT16); -0.24dBi(ANT18);</p>	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range(MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 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 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. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		



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<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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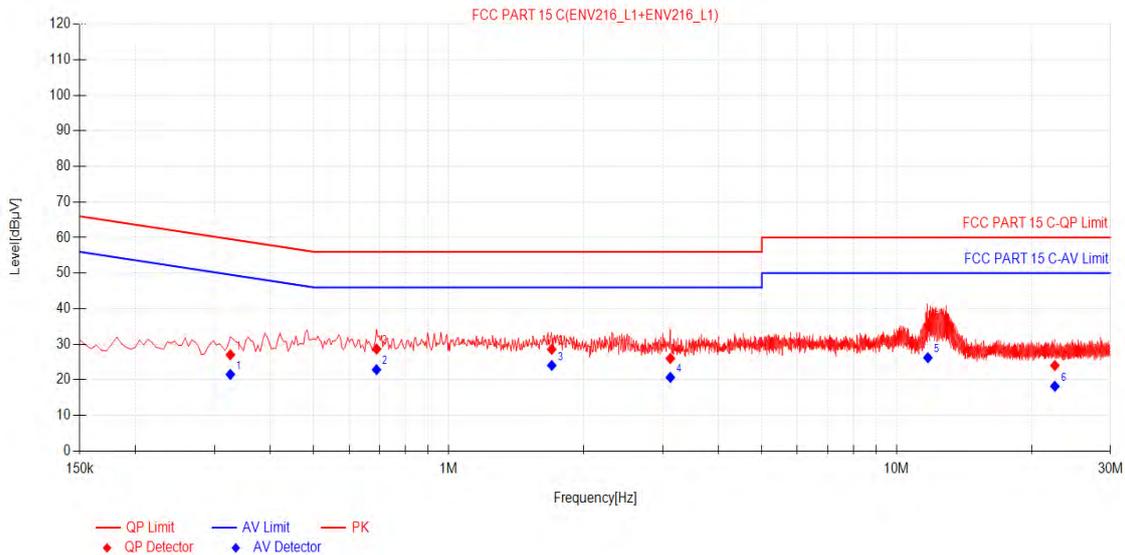
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Measurement Data

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.

Live Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.3255	10.56	27.06	59.57	32.51	21.53	49.57	28.04	PASS
2	0.6900	10.57	28.67	56.00	27.33	22.87	46.00	23.13	PASS
3	1.6980	10.73	28.58	56.00	27.42	24.04	46.00	21.96	PASS
4	3.1245	10.67	26.01	56.00	29.99	20.69	46.00	25.31	PASS
5	11.7420	10.59	35.49	60.00	24.51	26.22	50.00	23.78	PASS
6	22.5510	10.34	24.02	60.00	35.98	18.20	50.00	31.80	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

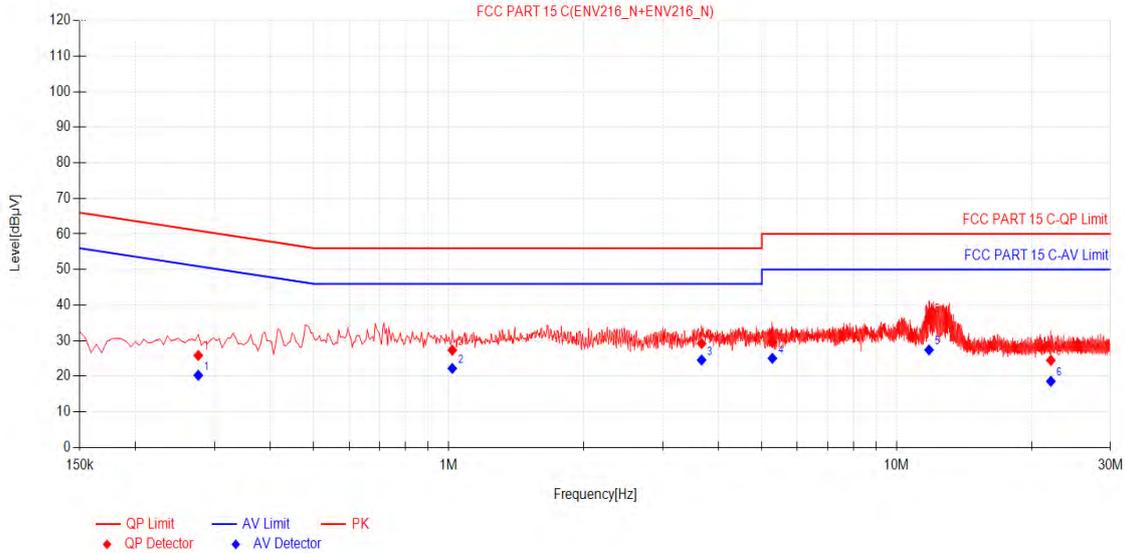


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Neutral Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2760	10.74	25.86	60.94	35.08	20.28	50.94	30.66	PASS
2	1.0185	10.63	27.35	56.00	28.65	22.20	46.00	23.80	PASS
3	3.6690	10.69	29.22	56.00	26.78	24.57	46.00	21.43	PASS
4	5.2800	10.62	29.53	60.00	30.47	25.04	50.00	24.96	PASS
5	11.8095	10.64	36.57	60.00	23.43	27.40	50.00	22.60	PASS
6	22.0875	10.45	24.48	60.00	35.52	18.59	50.00	31.41	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.1
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



4.5 DTS (6 dB) Bandwidth & 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
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	



4.6 Power Spectral Density

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



4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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)				
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:

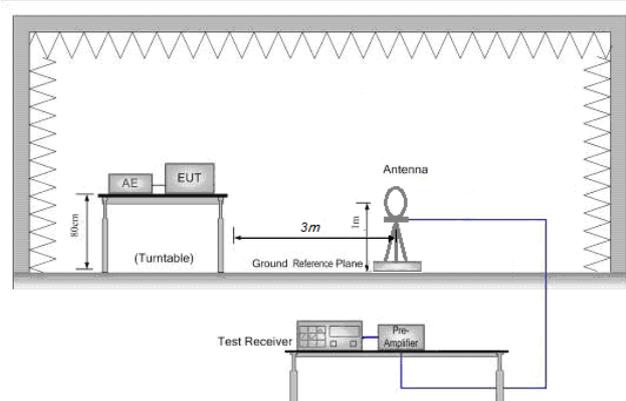


Figure 1. Below 30MHz

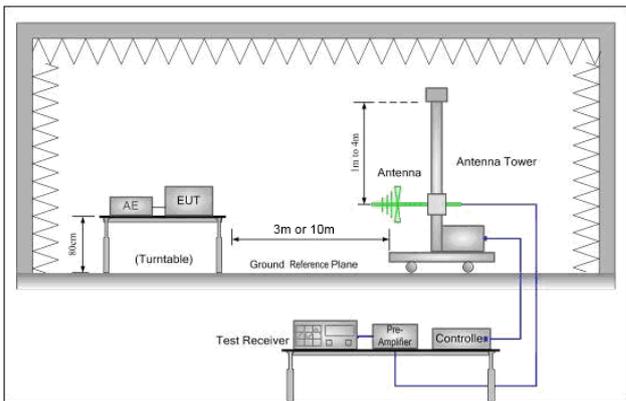


Figure 2. 30MHz to 1GHz



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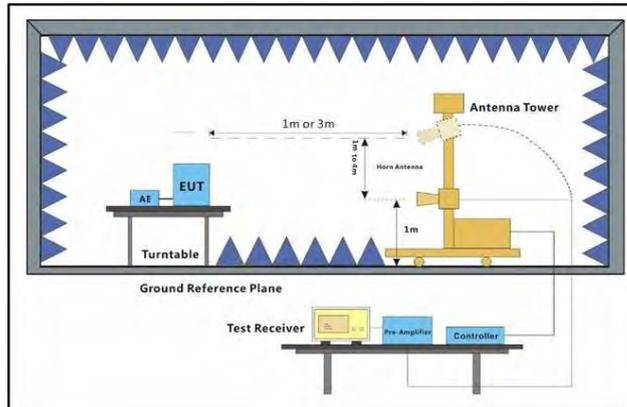


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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 (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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 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 Y 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 above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> RBW = 120 kHz VBW = 300 kHz Detector = Peak



	<ul style="list-style-type: none"> • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 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 ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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:

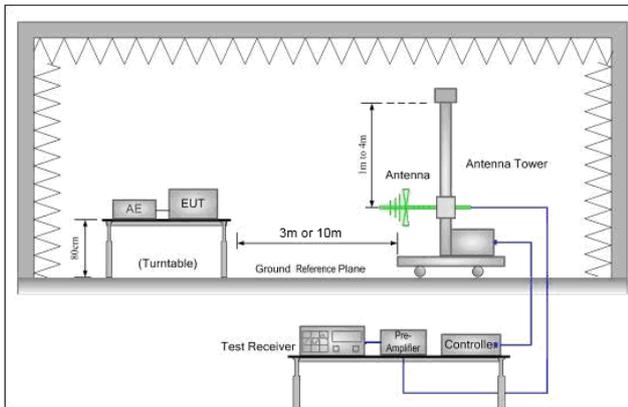


Figure 1. 30MHz to 1GHz

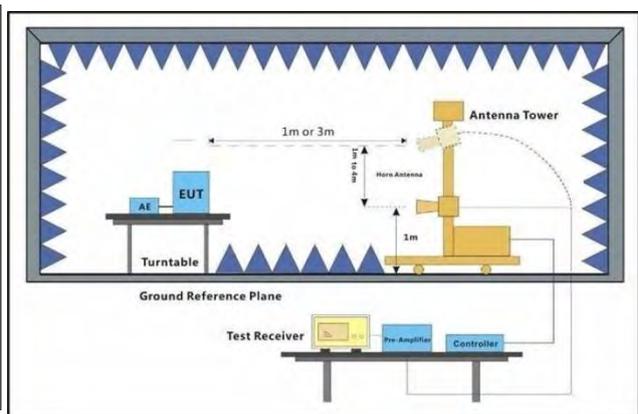


Figure 2. Above 1 GHz

Test Procedure:

- 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 = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 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 ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
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:	<p>Refer to section 6 for details</p>
Test Results:	<p>Pass</p>
<p>The detailed test data see: Appendix</p>	



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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	±7.25x 10 ⁻⁸
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 ⁻⁸
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.51	SUWI-02-09-09	NCR	NCR
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18



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RSE Test Equipment 996-01					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR



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Report No.: SUAR/2021/C000304

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7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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**DTS Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant16	2402	0.68	2401.66	2402.34	0.5	PASS
		2440	0.68	2439.66	2440.34	0.5	PASS
		2480	0.67	2479.66	2480.33	0.5	PASS
BLE_2M	Ant16	2402	1.16	2401.42	2402.58	0.5	PASS
		2440	1.16	2439.42	2440.58	0.5	PASS
		2480	1.16	2479.42	2480.58	0.5	PASS

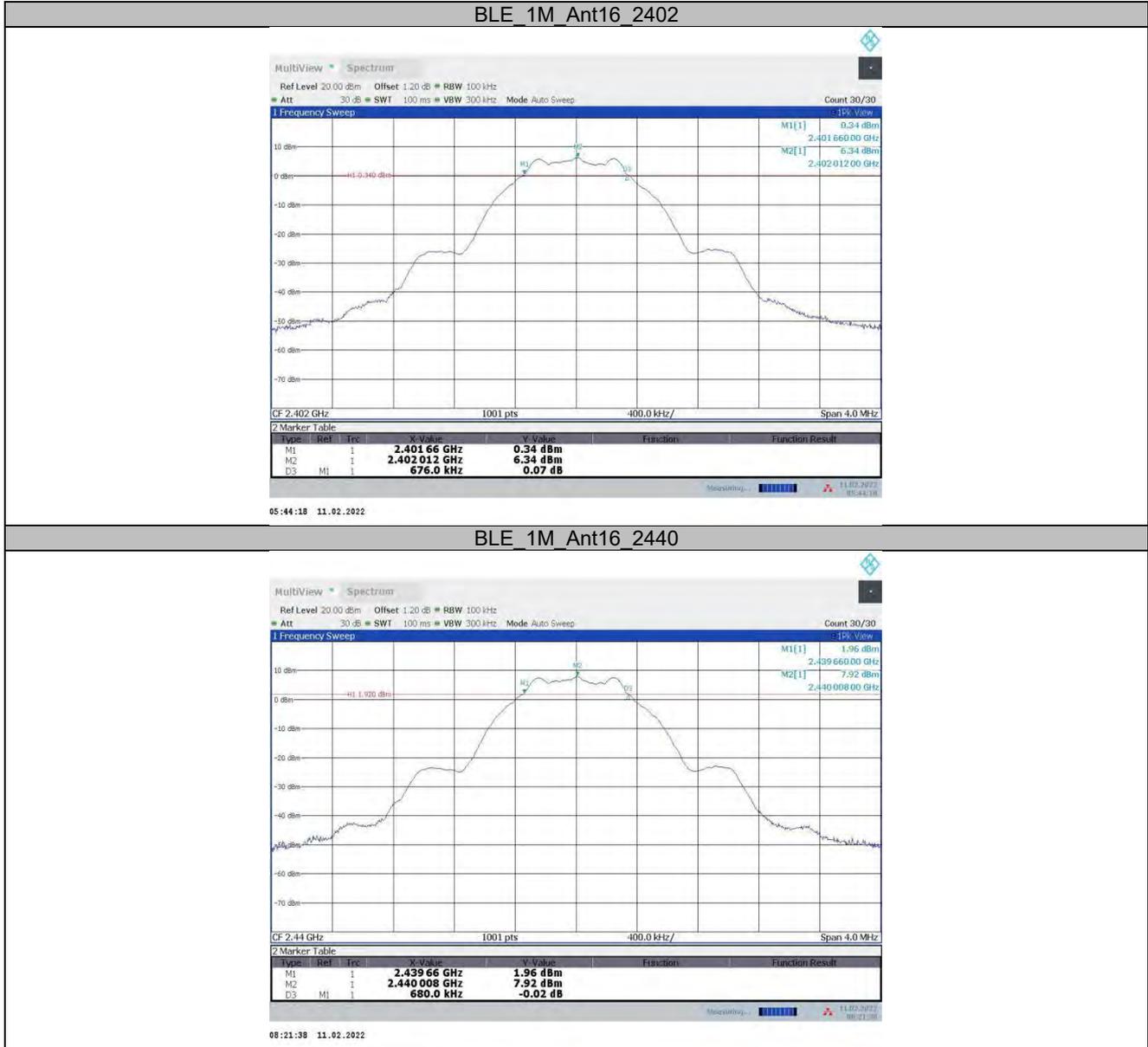
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant18	2402	0.68	2401.65	2402.34	0.5	PASS
		2440	0.68	2439.65	2440.34	0.5	PASS
		2480	0.68	2479.65	2480.33	0.5	PASS
BLE_2M	Ant18	2402	1.17	2401.42	2402.58	0.5	PASS
		2440	1.17	2439.41	2440.58	0.5	PASS
		2480	1.17	2479.41	2480.58	0.5	PASS



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Test Graphs



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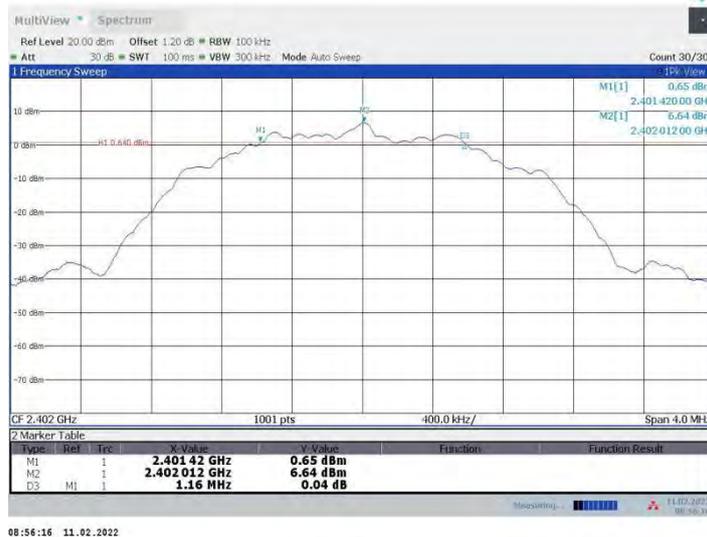
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BLE_2M_Ant16_2402



08:56:16 11.02.2022



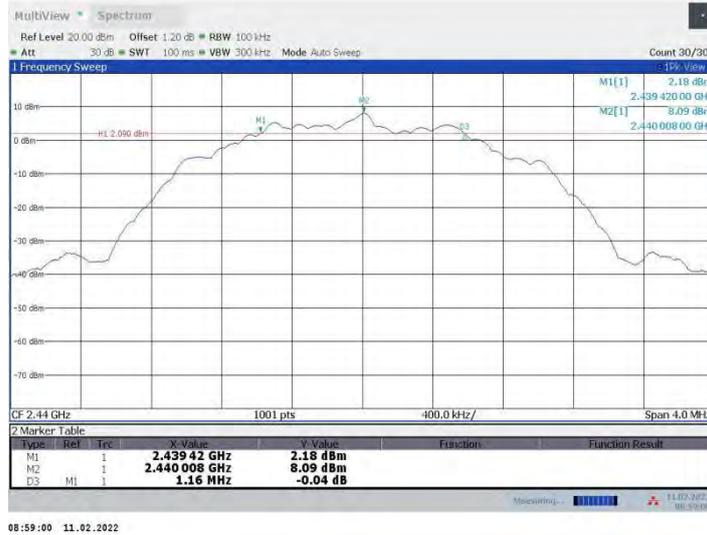
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BLE_2M_Ant16_2440



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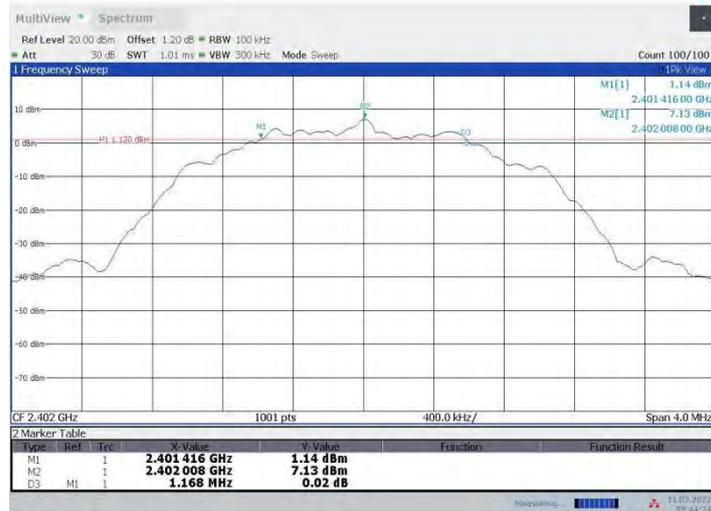
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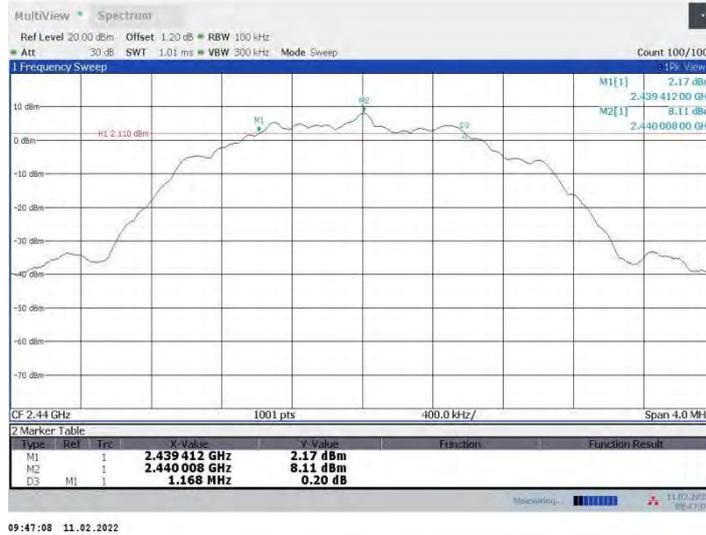
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09:49:58 11.02.2022



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant16	2402	1.025	2401.494	2402.519	---	---
		2440	1.027	2439.492	2440.519	---	---
		2480	1.025	2479.491	2480.516	---	---
BLE_2M	Ant16	2402	2.019	2401.006	2403.025	---	---
		2440	2.022	2439.003	2441.025	---	---
		2480	2.017	2479.002	2481.019	---	---

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant18	2402	1.017	2401.493	2402.511	---	---
		2440	1.019	2439.492	2440.512	---	---
		2480	1.017	2479.492	2480.509	---	---
BLE_2M	Ant18	2402	2.005	2401.010	2403.014	---	---
		2440	2.007	2439.007	2441.014	---	---
		2480	2.002	2479.005	2481.007	---	---

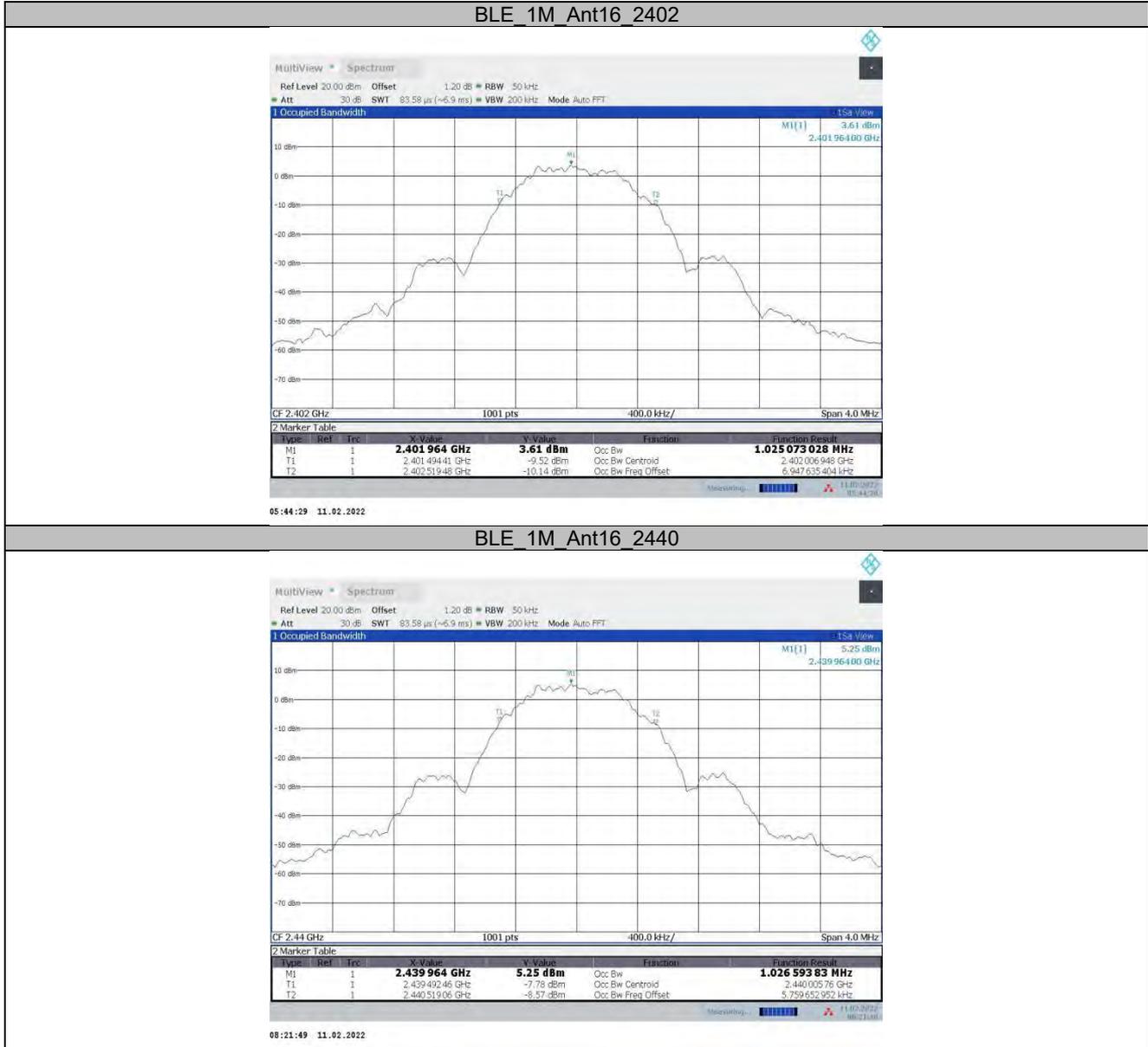


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Test Graphs



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BLE_1M_Ant16_2480



BLE_2M_Ant16_2402



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BLE 2M Ant16 2440



08:59:11 11.02.2022

BLE 2M Ant16 2480



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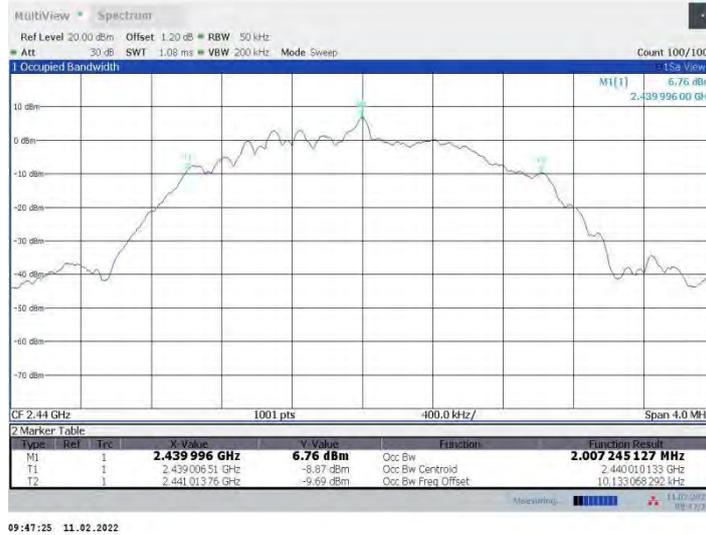
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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant16	2402	7.02	≤30	PASS
		2440	8.57	≤30	PASS
		2480	8.16	≤30	PASS
BLE_2M	Ant16	2402	7.33	≤30	PASS
		2440	8.82	≤30	PASS
		2480	8.58	≤30	PASS

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant18	2402	7.51	≤30	PASS
		2440	8.59	≤30	PASS
		2480	8.19	≤30	PASS
BLE_2M	Ant18	2402	7.83	≤30	PASS
		2440	8.78	≤30	PASS
		2480	8.51	≤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	Ant16	2402	-8.15	≤8.00	PASS
		2440	-6.64	≤8.00	PASS
		2480	-7.07	≤8.00	PASS
BLE_2M	Ant16	2402	-10.82	≤8.00	PASS
		2440	-9.37	≤8.00	PASS
		2480	-9.56	≤8.00	PASS

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant18	2402	-7.59	≤8.00	PASS
		2440	-6.57	≤8.00	PASS
		2480	-6.93	≤8.00	PASS
BLE_2M	Ant18	2402	-10.27	≤8.00	PASS
		2440	-9.36	≤8.00	PASS
		2480	-9.62	≤8.00	PASS

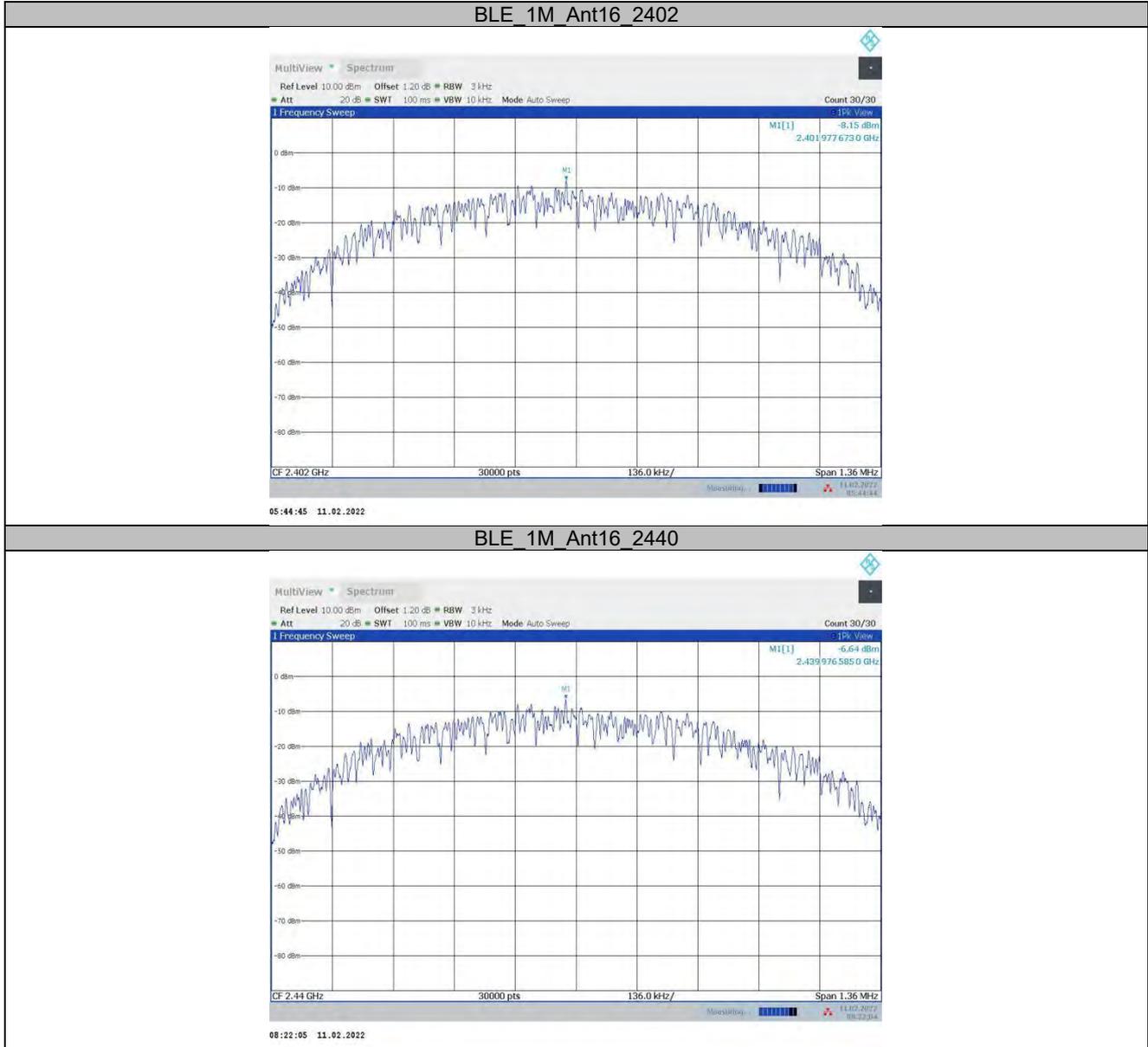


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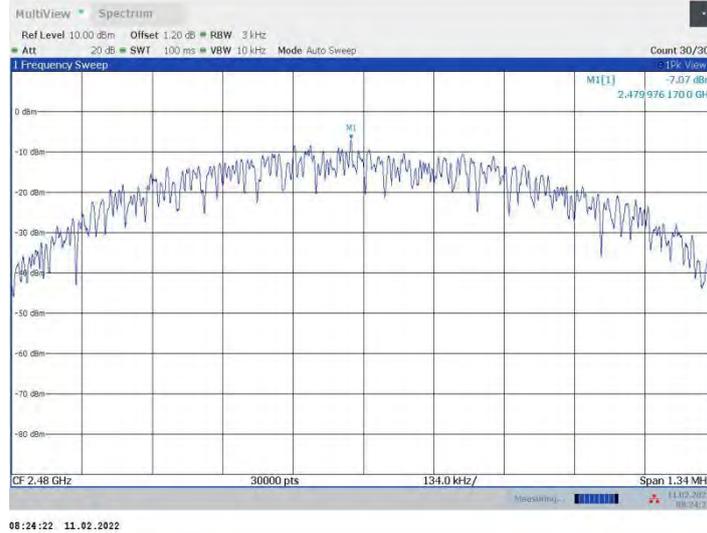


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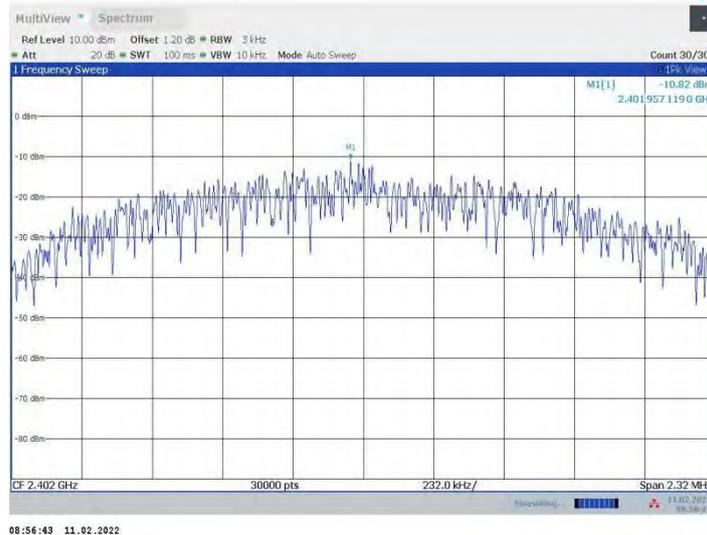
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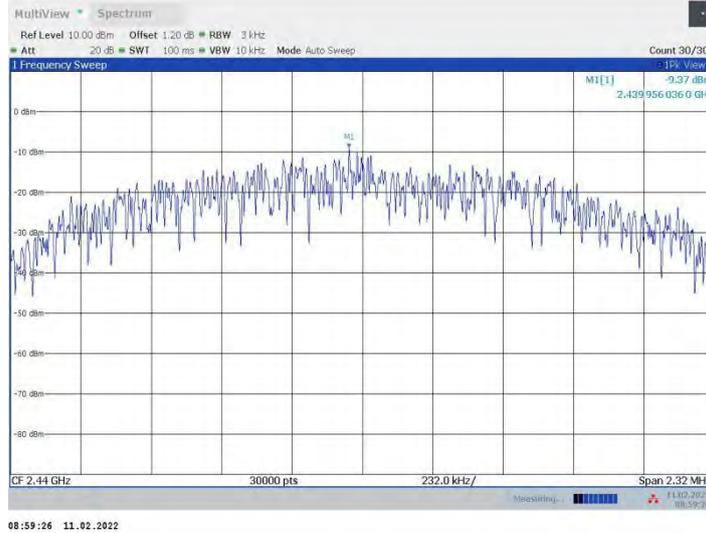


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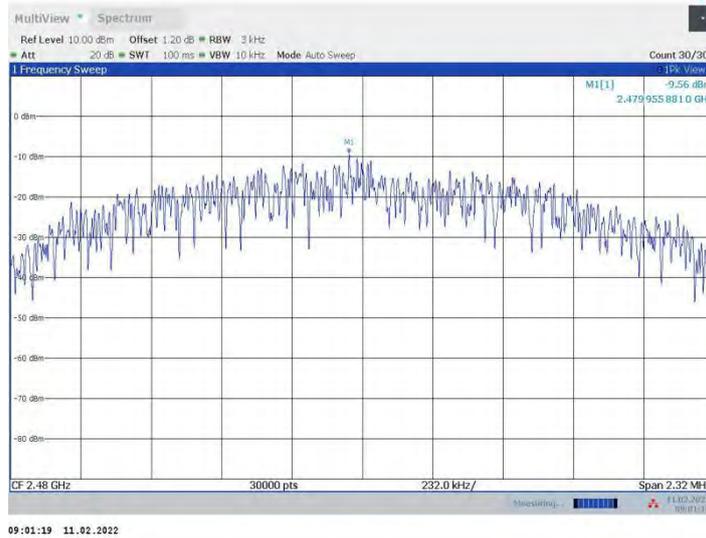
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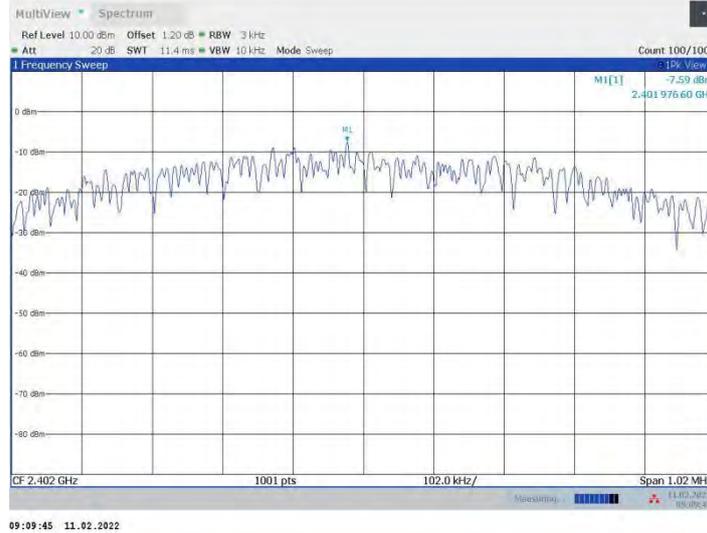


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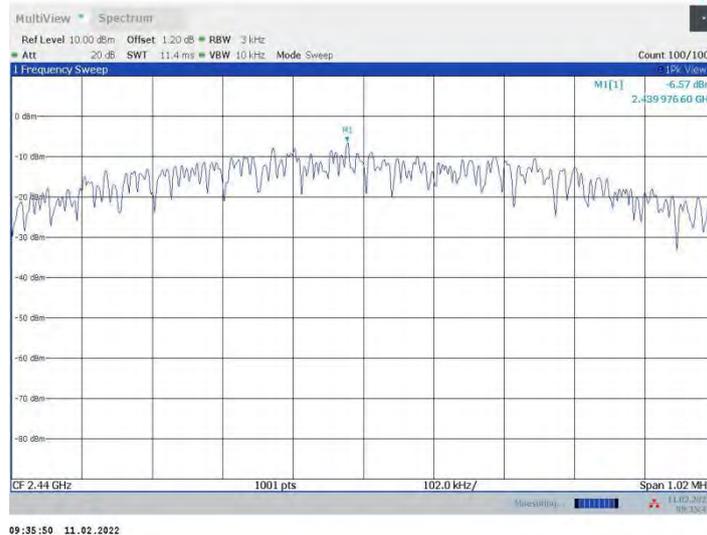
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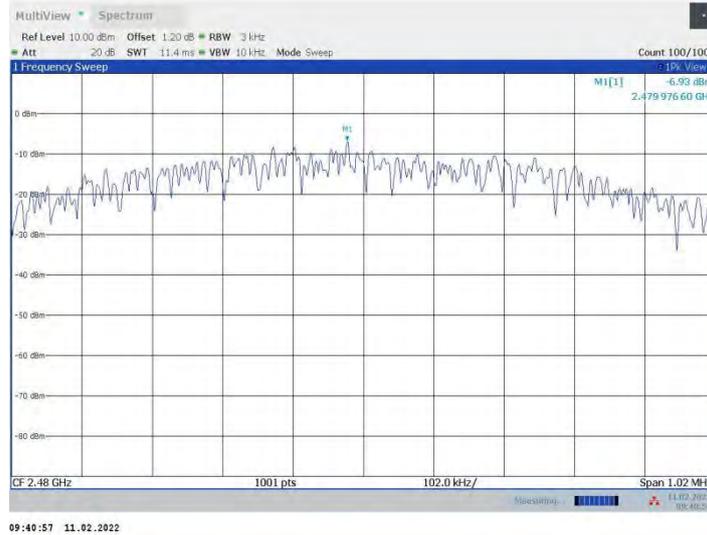


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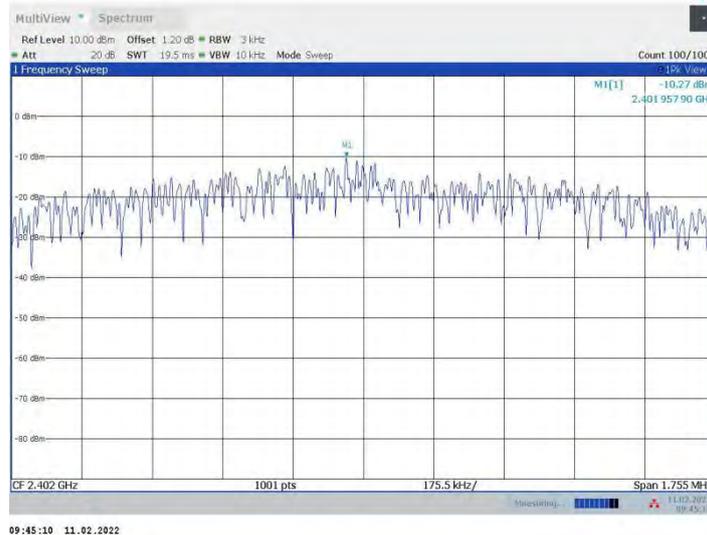
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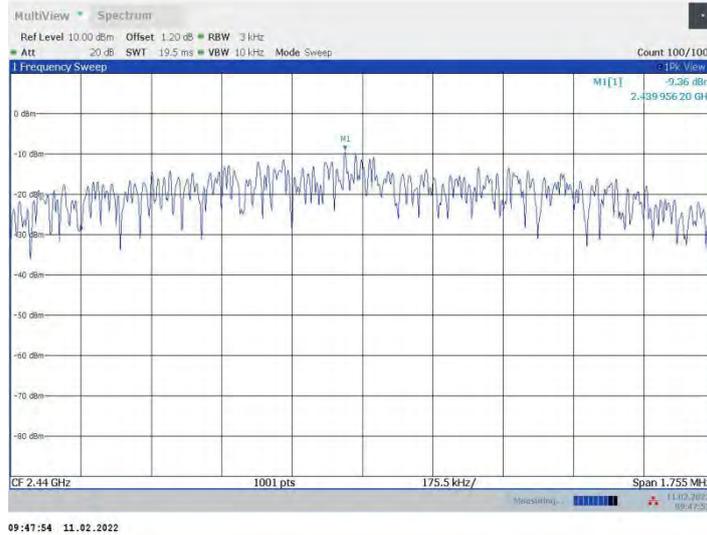


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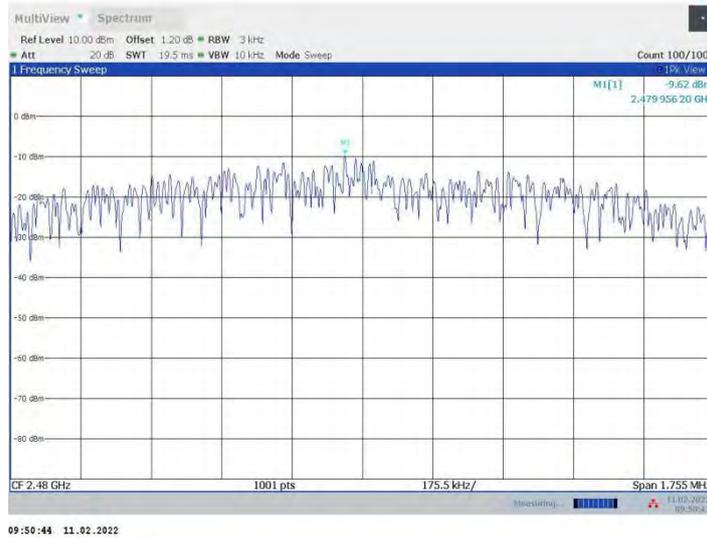
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BLE_2M_Ant18_2440



BLE_2M_Ant18_2480



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**Band edge measurements
Test Result**

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant16	Low	2402	6.25	-53.49	≤-13.75	PASS
		High	2480	7.36	-56.21	≤-12.64	PASS
BLE_2M	Ant16	Low	2402	6.57	-42.64	≤-13.43	PASS
		High	2480	7.74	-56.30	≤-12.26	PASS

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant18	Low	2402	6.76	-54.16	≤-13.24	PASS
		High	2480	7.37	-55.73	≤-12.63	PASS
BLE_2M	Ant18	Low	2402	7.06	-41.25	≤-12.94	PASS
		High	2480	7.63	-56.21	≤-12.37	PASS

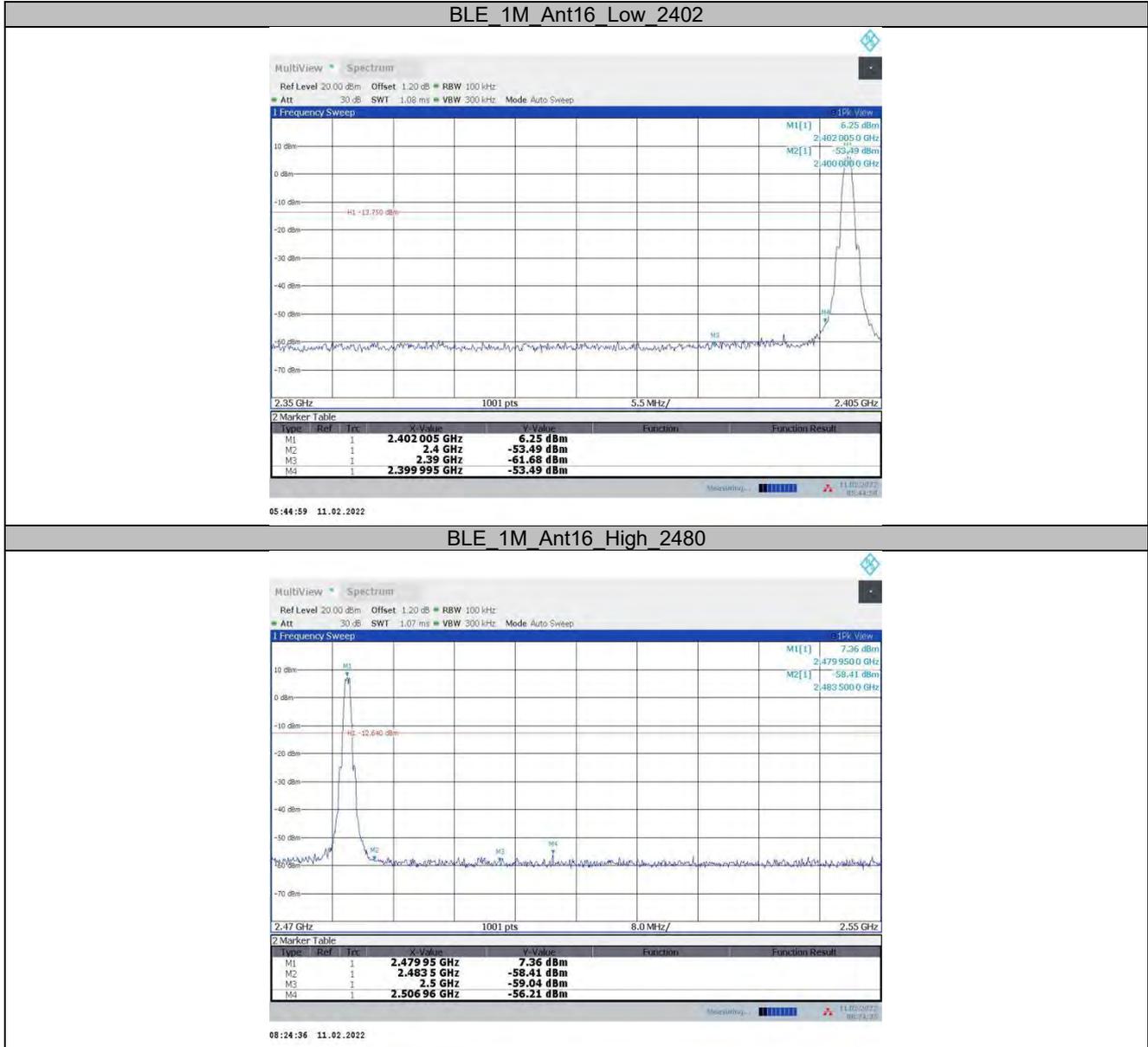


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Test Graphs

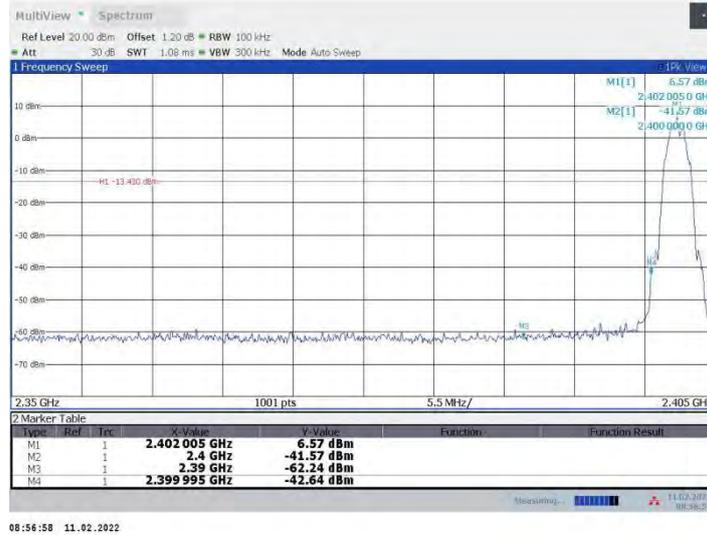


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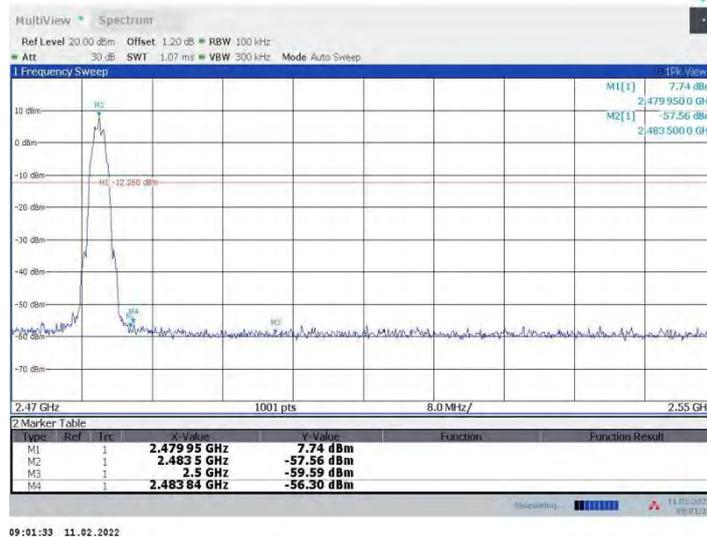
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BLE_2M_Ant16_Low_2402



BLE_2M_Ant16_High_2480

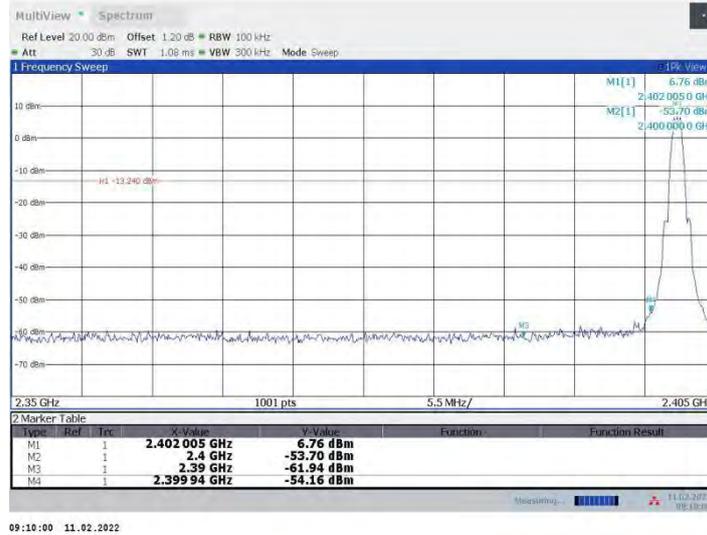


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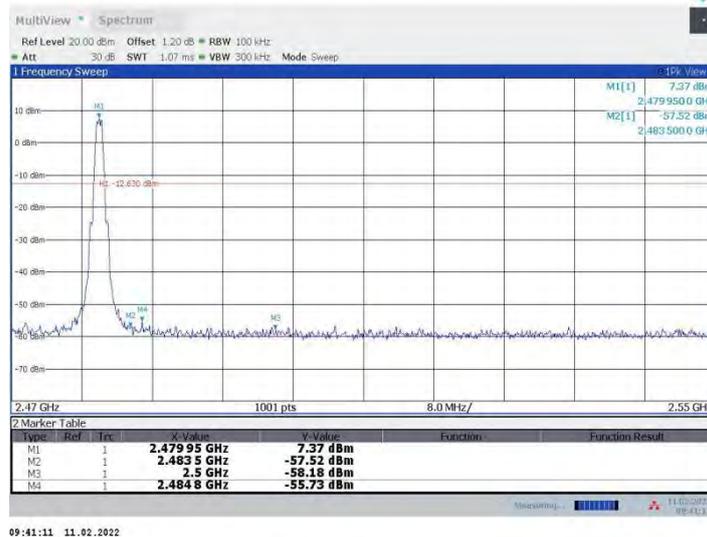
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BLE_1M_Ant18_Low_2402



BLE_1M_Ant18_High_2480



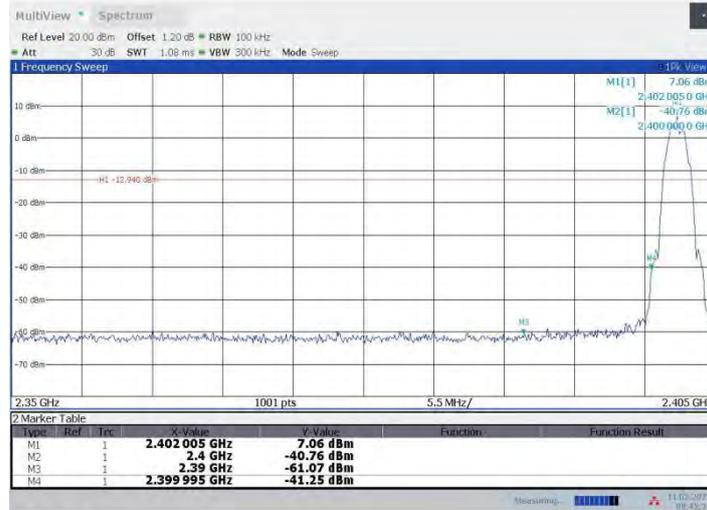
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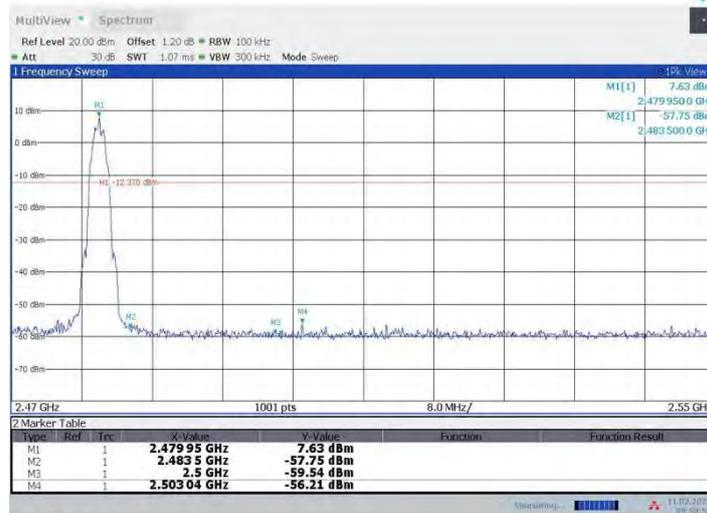
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BLE_2M_Ant18_Low_2402



09:45:25 11.02.2022

BLE_2M_Ant18_High_2480



09:50:59 11.02.2022



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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant16	2402	Reference	4.94	4.94	---	PASS
			30~1000	4.94	-59.45	≤-15.06	PASS
			1000~26500	4.94	-54.21	≤-15.06	PASS
		2440	Reference	6.30	6.30	---	PASS
			30~1000	6.30	-59.26	≤-13.7	PASS
			1000~26500	6.30	-55.03	≤-13.7	PASS
		2480	Reference	5.93	5.93	---	PASS
			30~1000	5.93	-59.56	≤-14.07	PASS
			1000~26500	5.93	-54.49	≤-14.07	PASS
BLE_2M	Ant16	2402	Reference	3.61	3.61	---	PASS
			30~1000	3.61	-59.36	≤-16.39	PASS
			1000~26500	3.61	-54.59	≤-16.39	PASS
		2440	Reference	5.31	5.31	---	PASS
			30~1000	5.31	-58.65	≤-14.69	PASS
			1000~26500	5.31	-54.61	≤-14.69	PASS
		2480	Reference	4.83	4.83	---	PASS
			30~1000	4.83	-59.79	≤-15.17	PASS
			1000~26500	4.83	-54.18	≤-15.17	PASS

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant18	2402	Reference	6.85	6.85	---	PASS
			30~1000	6.85	-59.97	≤-13.15	PASS
			1000~26500	6.85	-54.62	≤-13.15	PASS
		2440	Reference	7.89	7.89	---	PASS
			30~1000	7.89	-60.01	≤-12.11	PASS
			1000~26500	7.89	-54.5	≤-12.11	PASS
		2480	Reference	7.54	7.54	---	PASS
			30~1000	7.54	-59.67	≤-12.46	PASS
			1000~26500	7.54	-54.95	≤-12.46	PASS
BLE_2M	Ant18	2402	Reference	7.11	7.11	---	PASS
			30~1000	7.11	-59.81	≤-12.89	PASS
			1000~26500	7.11	-54.88	≤-12.89	PASS
		2440	Reference	8.06	8.06	---	PASS
			30~1000	8.06	-58.71	≤-11.94	PASS
			1000~26500	8.06	-54.82	≤-11.94	PASS
		2480	Reference	7.80	7.80	---	PASS
			30~1000	7.80	-59.52	≤-12.2	PASS
			1000~26500	7.80	-55.04	≤-12.2	PASS



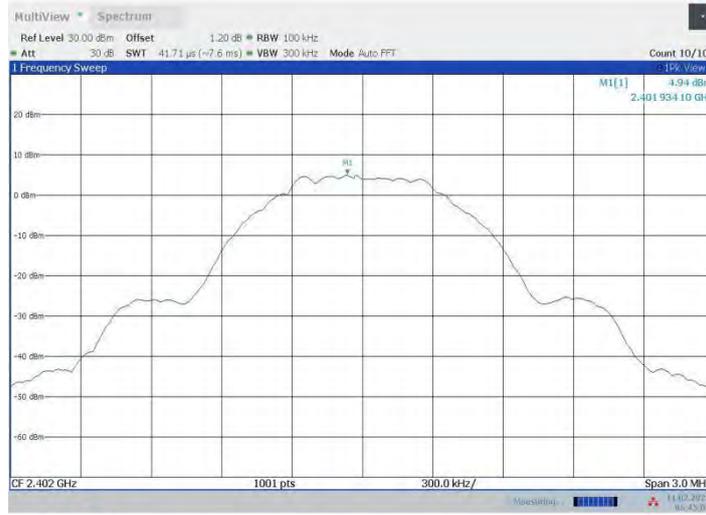
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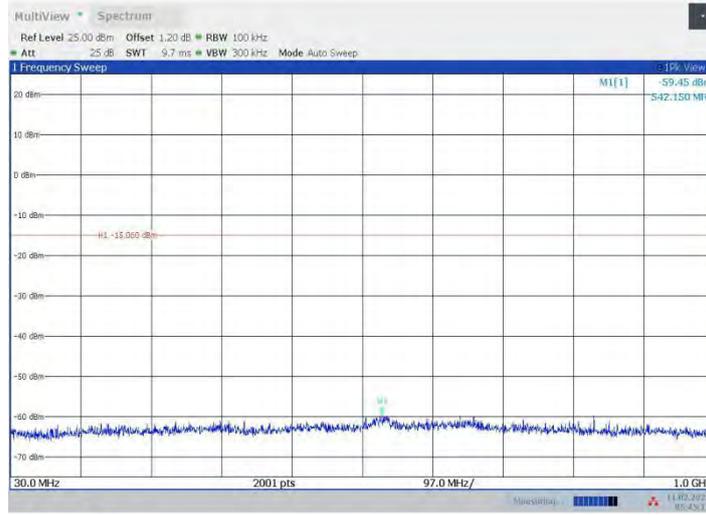
Test Graphs

BLE_1M_Ant16_2402_0~Reference



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BLE_1M_Ant16_2402_30~1000



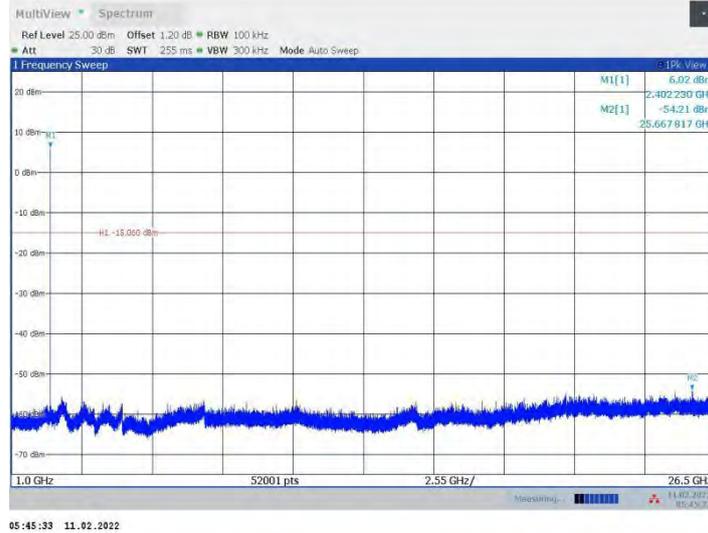
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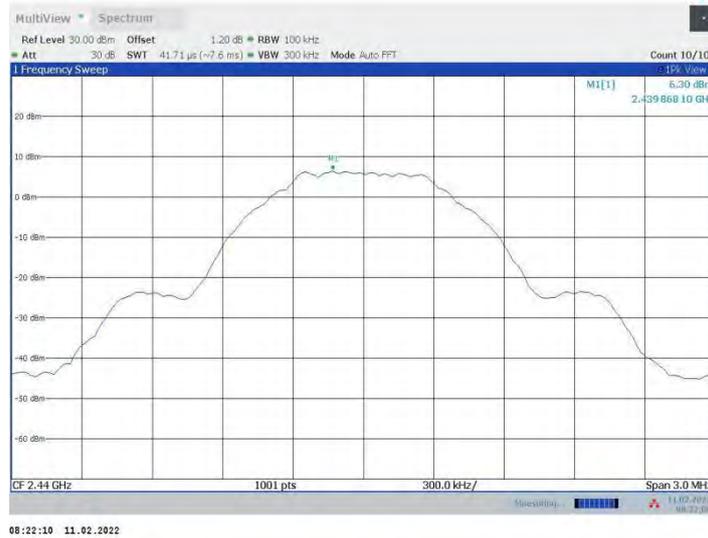
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BLE_1M_Ant16_2402_1000~26500



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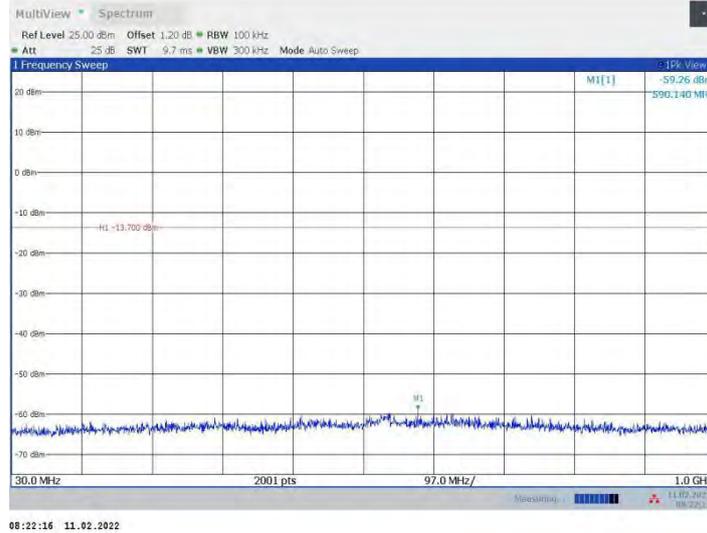


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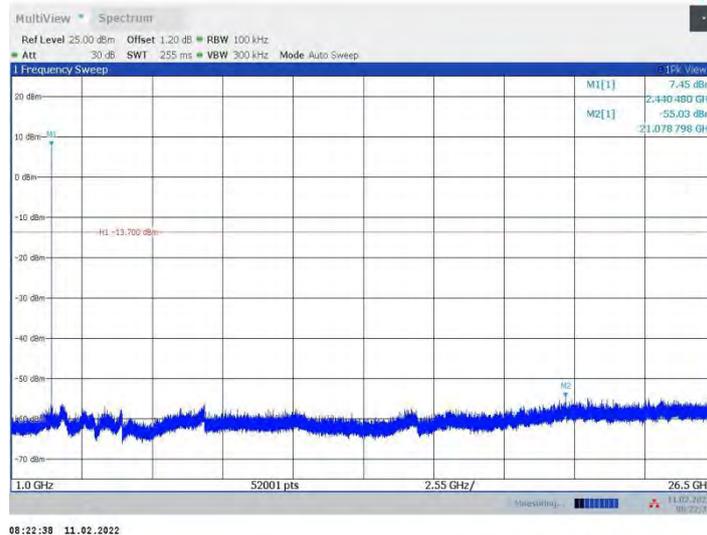
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BLE 1M Ant16_2440_30~1000



BLE 1M Ant16_2440_1000~26500



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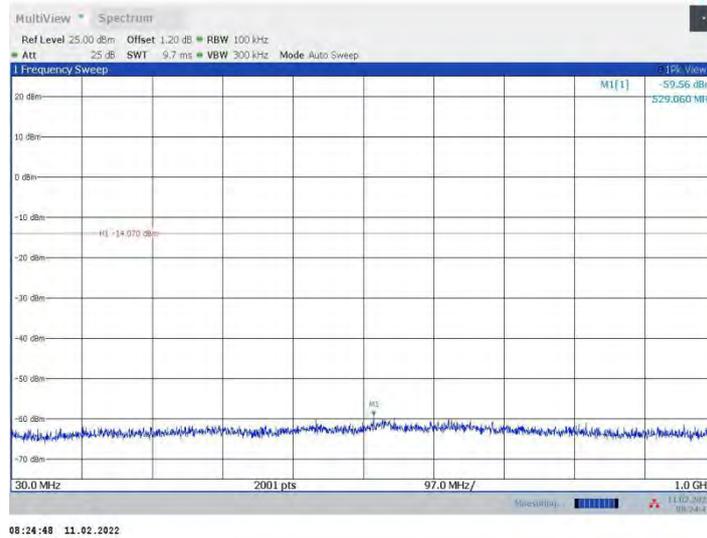
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BLE_1M_Ant16_2480_0~Reference



BLE_1M_Ant16_2480_30~1000



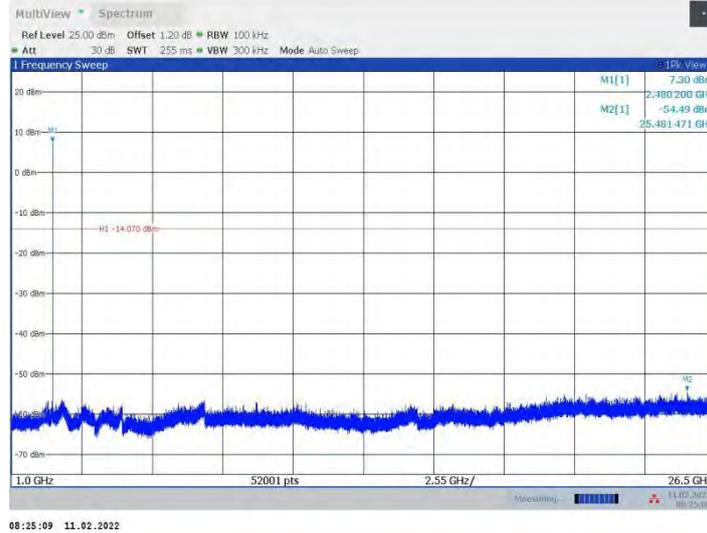
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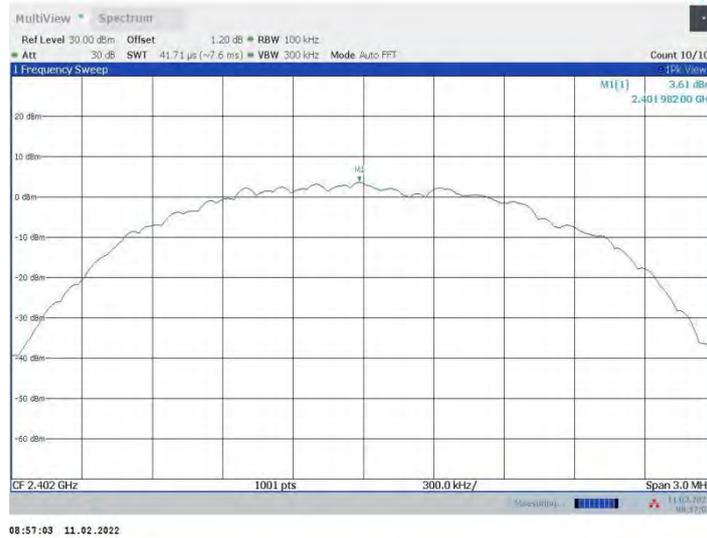
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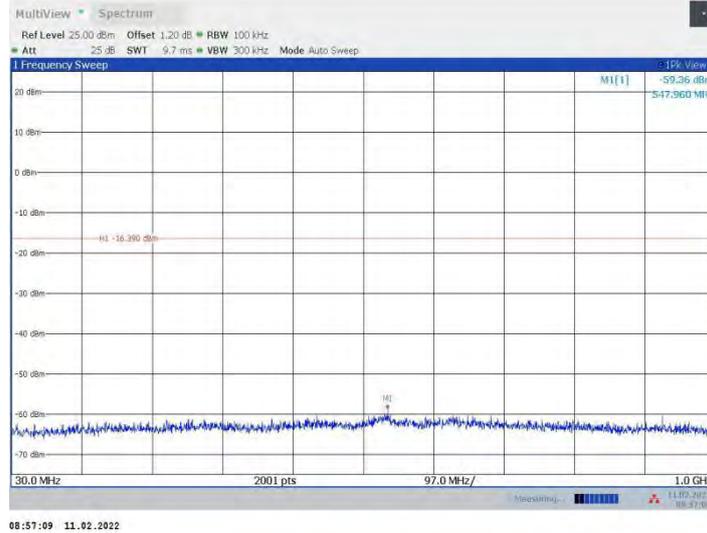
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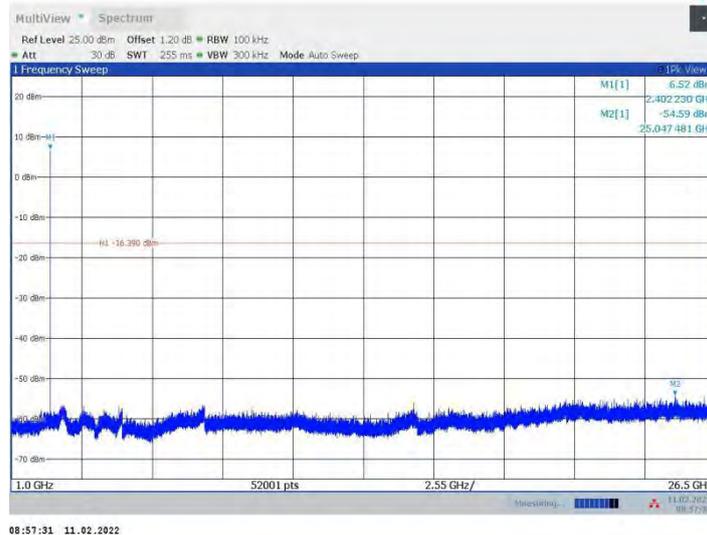
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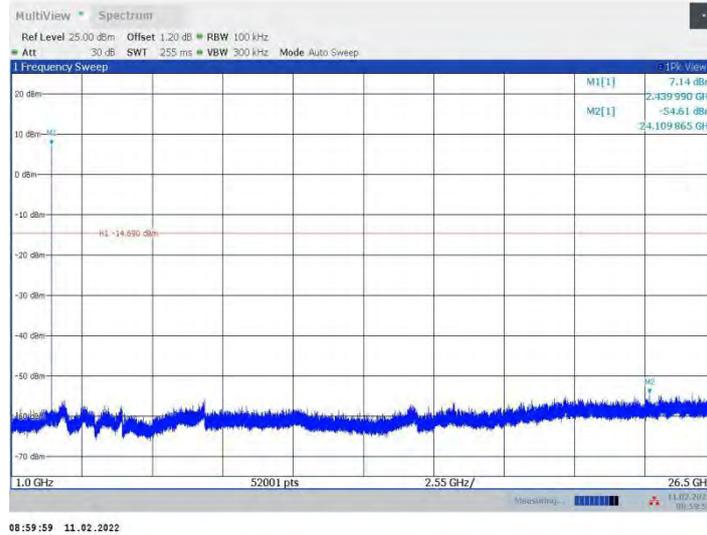


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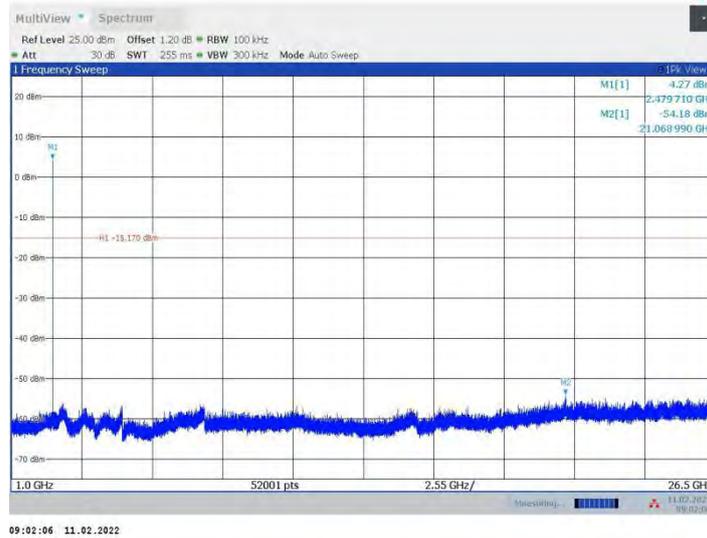
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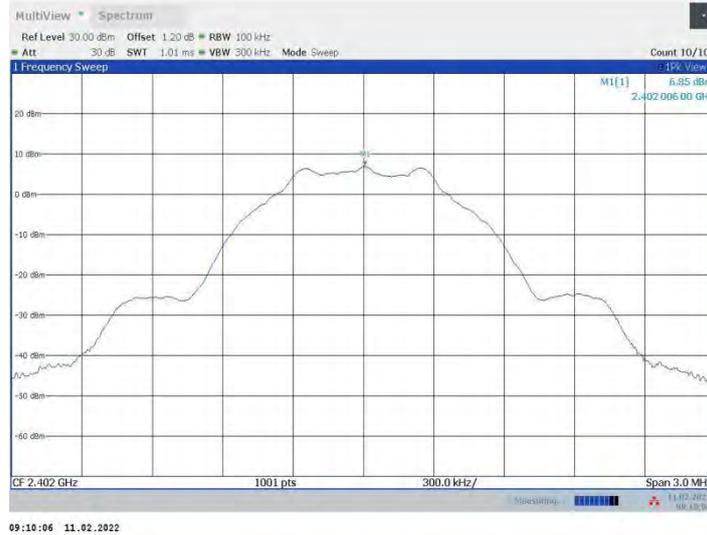
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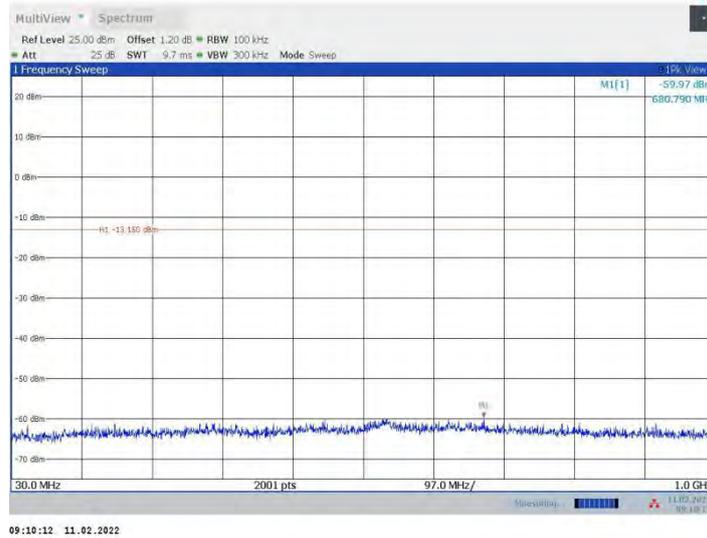
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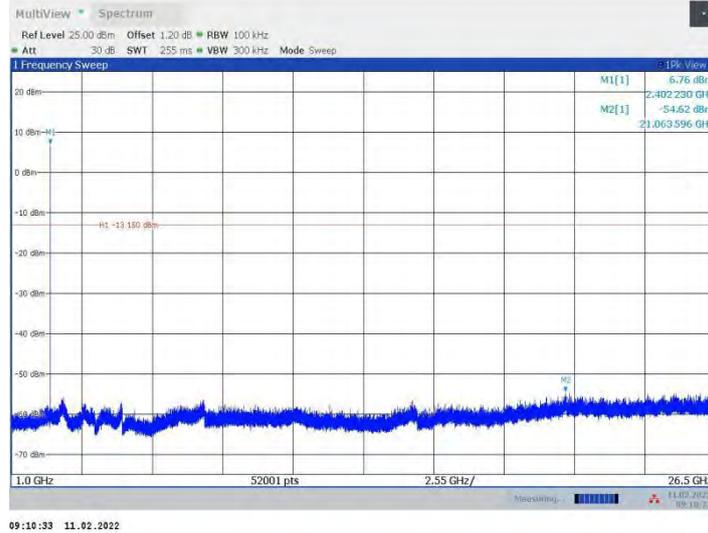


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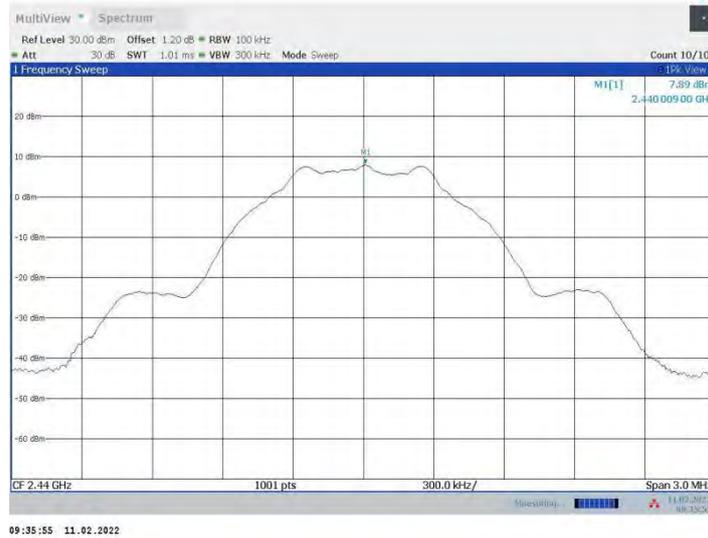
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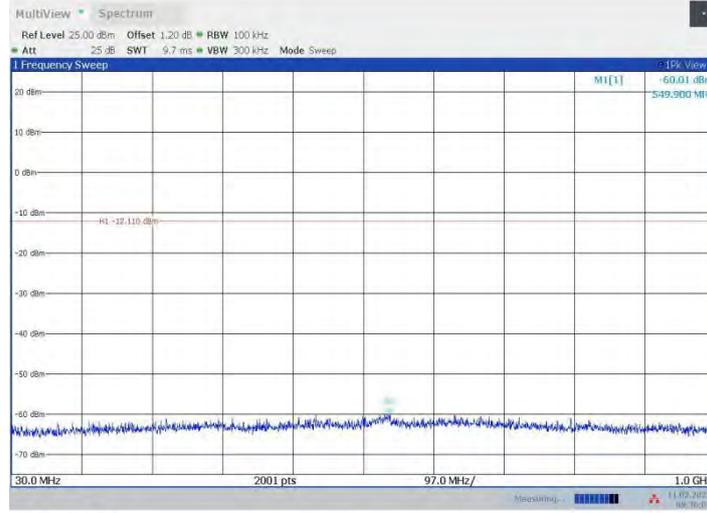


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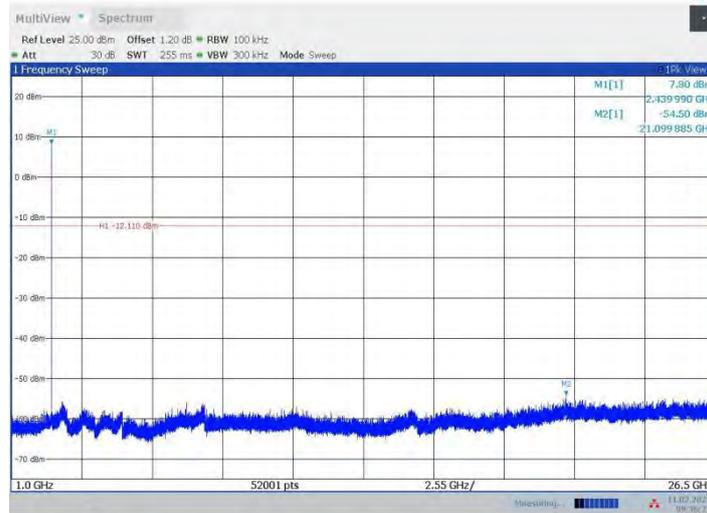
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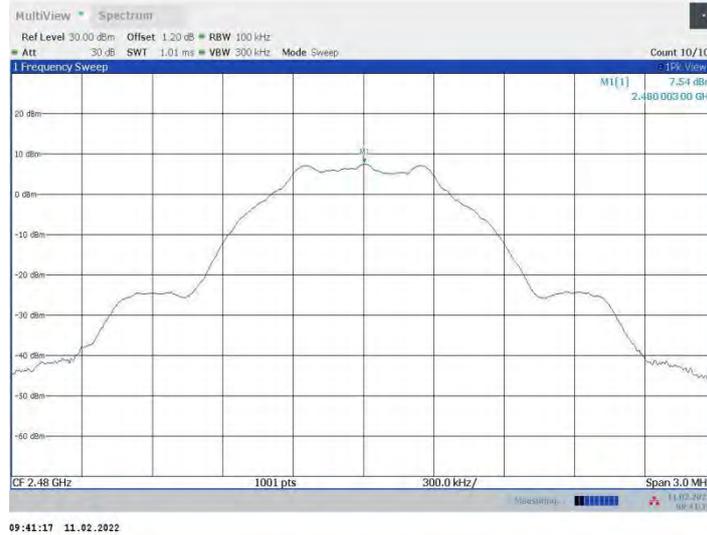
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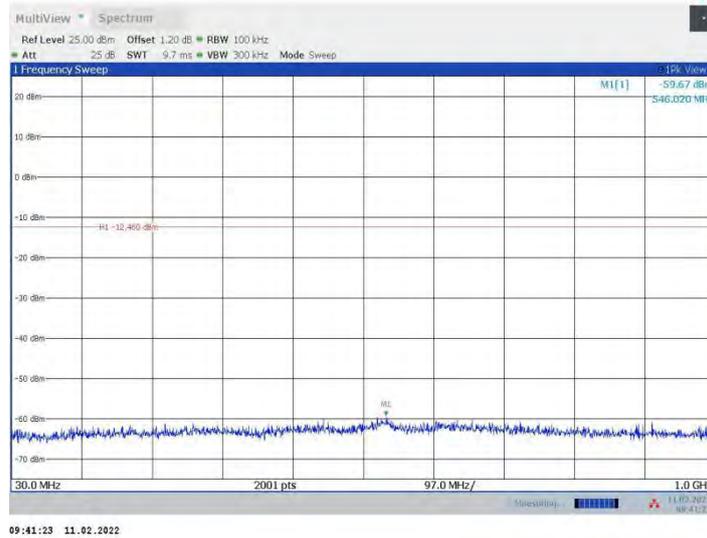
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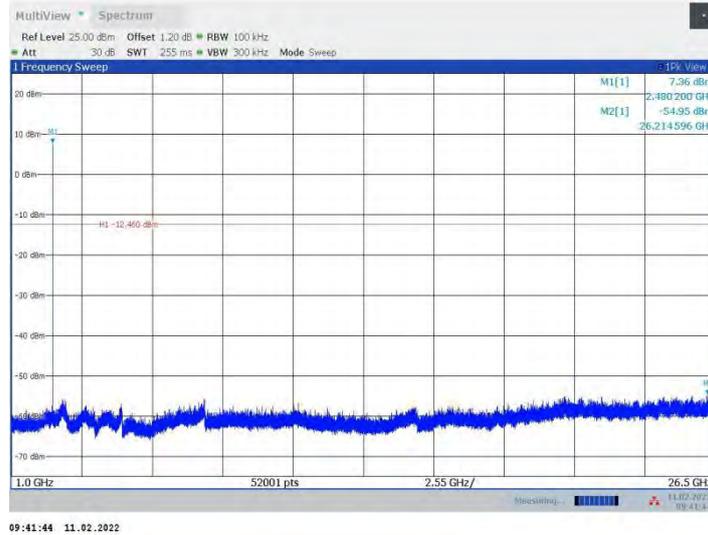


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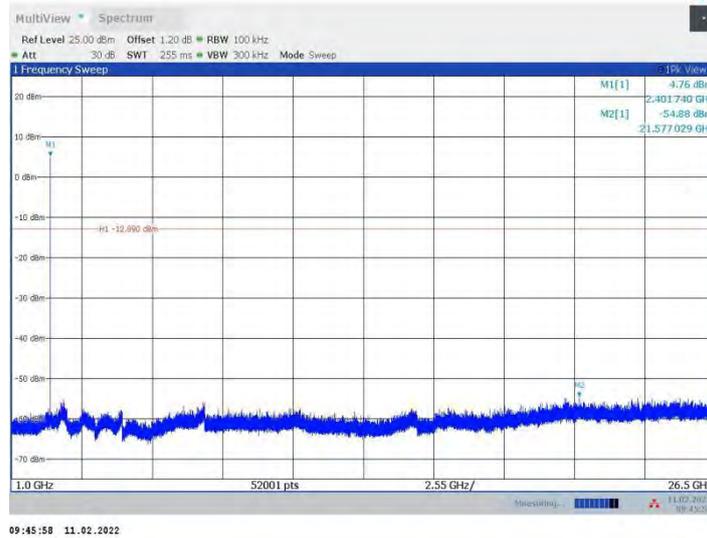
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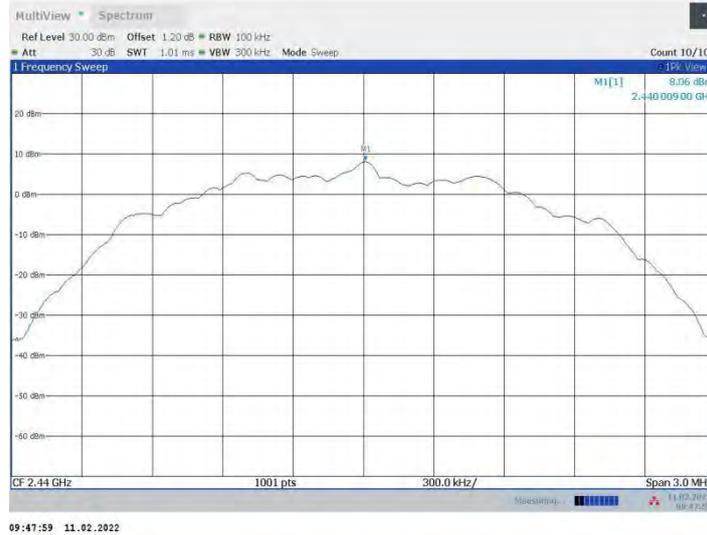
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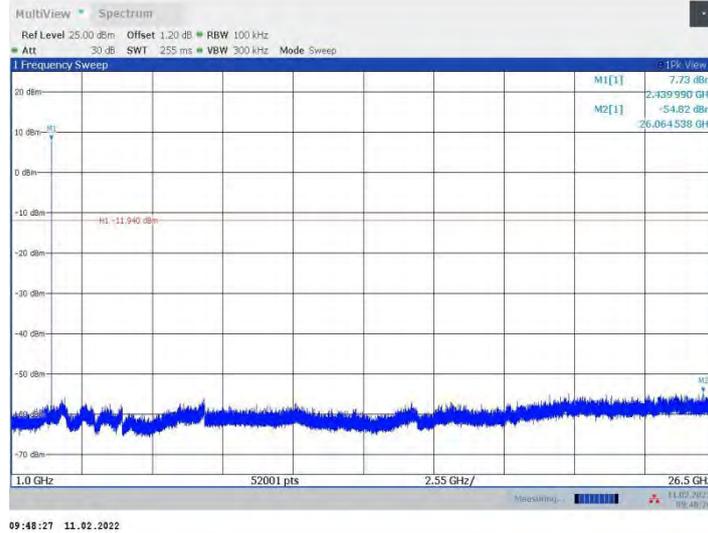
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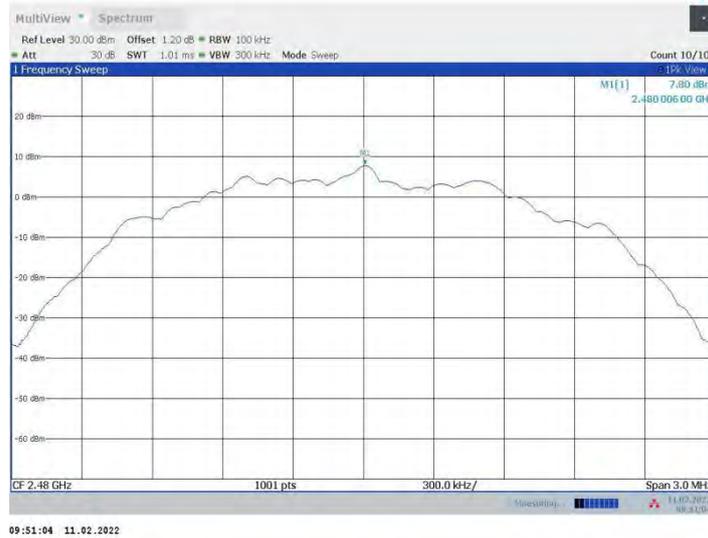
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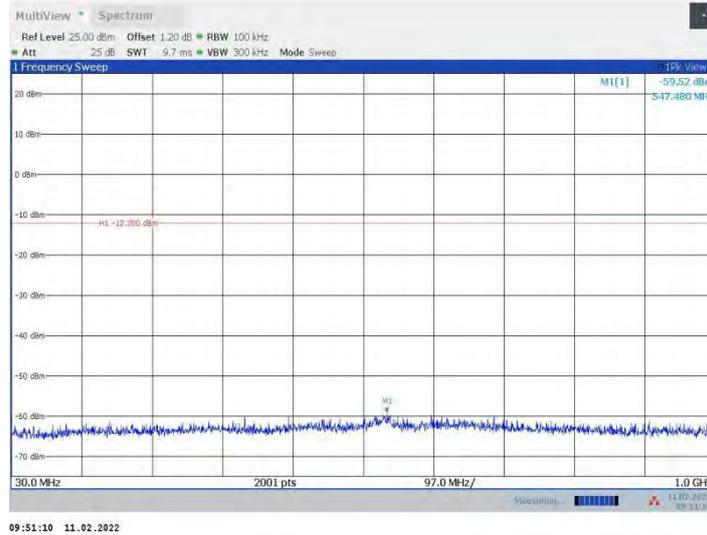


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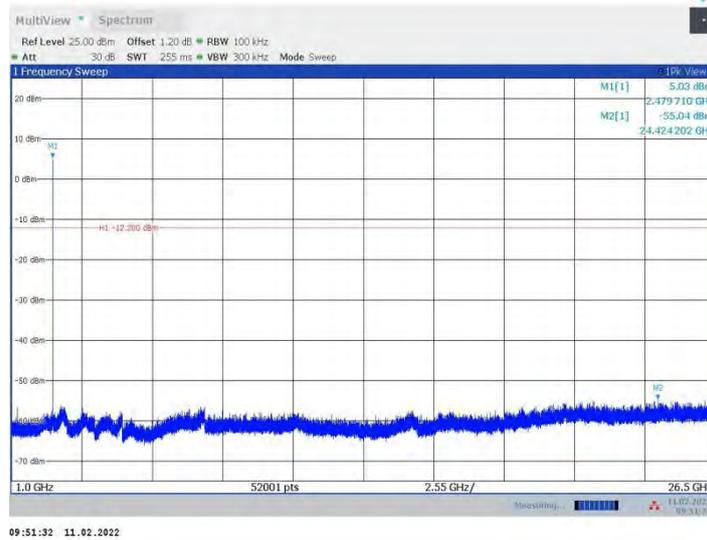
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BLE 2M Ant18_2480_30~1000



BLE 2M Ant18_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	Ant16	2402	0.390	0.630	61.90	2.08
		2440	0.390	0.630	61.90	2.08
		2480	0.390	0.630	61.90	2.08
BLE_2M	Ant16	2402	0.205	0.630	32.54	4.77
		2440	0.205	0.630	32.54	4.77
		2480	0.205	0.630	32.54	4.77

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant18	2402	0.390	0.630	61.90	2.08
		2440	0.390	0.630	61.90	2.08
		2480	0.390	0.630	61.90	2.08
BLE_2M	Ant18	2402	0.205	0.630	33.33	4.77
		2440	0.205	0.630	33.33	4.77
		2480	0.205	0.630	33.33	4.77

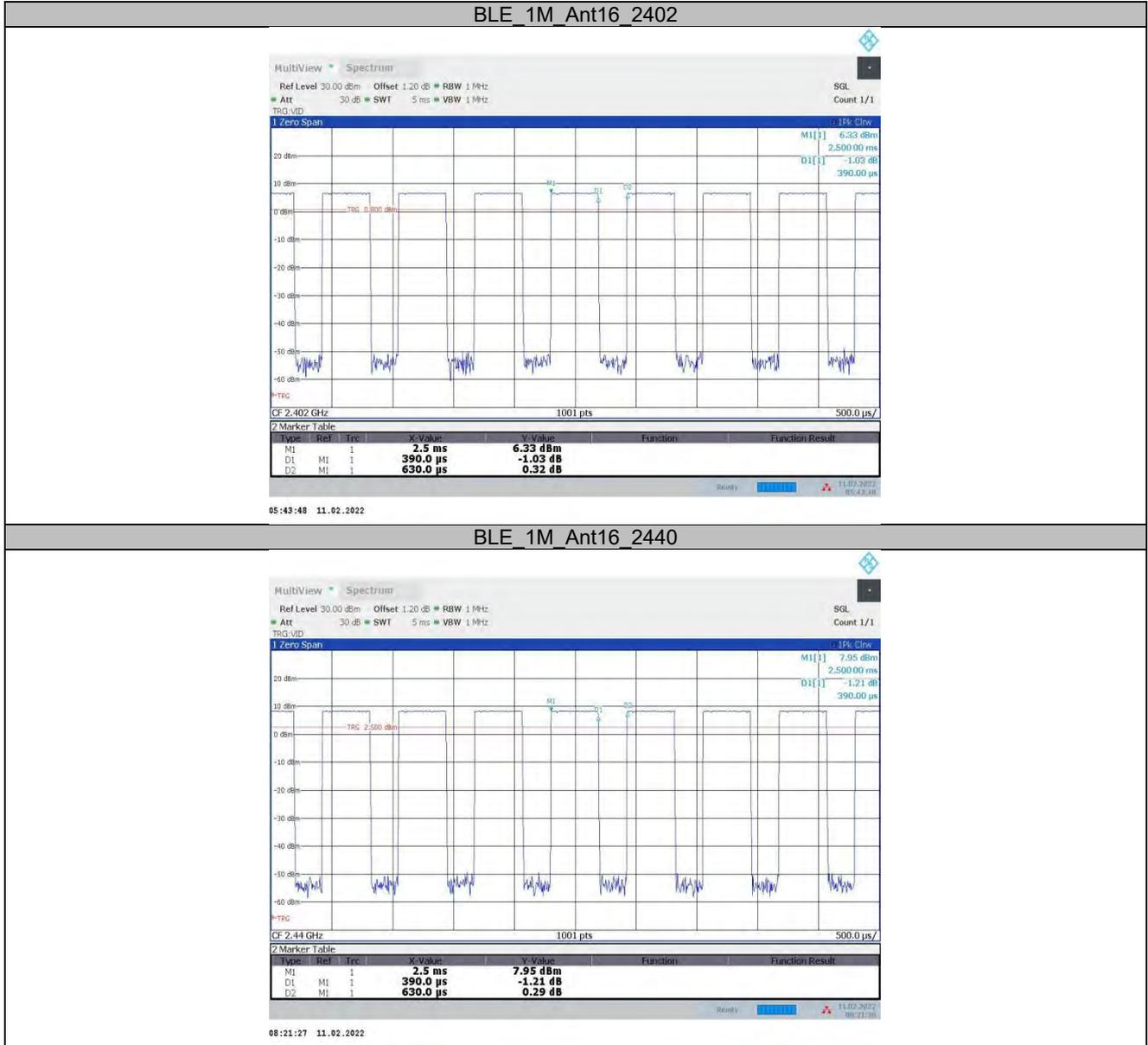


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Test Graphs



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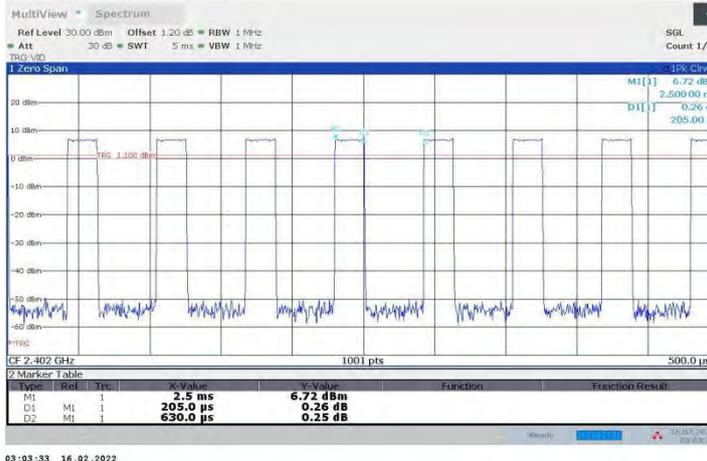
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BLE_1M_Ant16_2480



08:23:44 11.02.2022

BLE_2M_Ant16_2402



03:03:33 16.02.2022

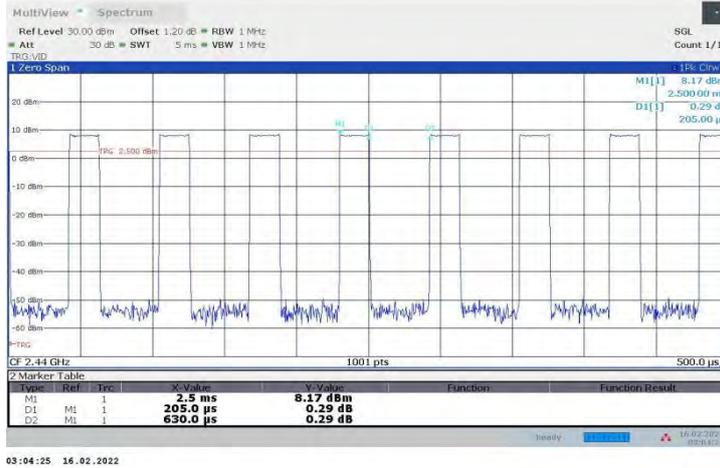


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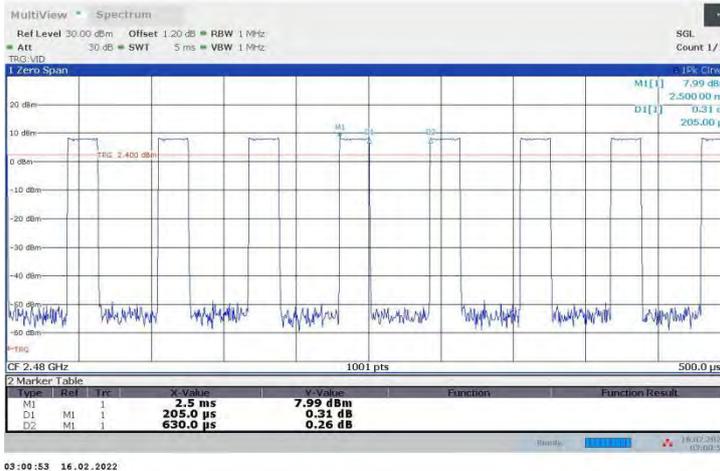
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BLE_2M_Ant16_2440



BLE_2M_Ant16_2480



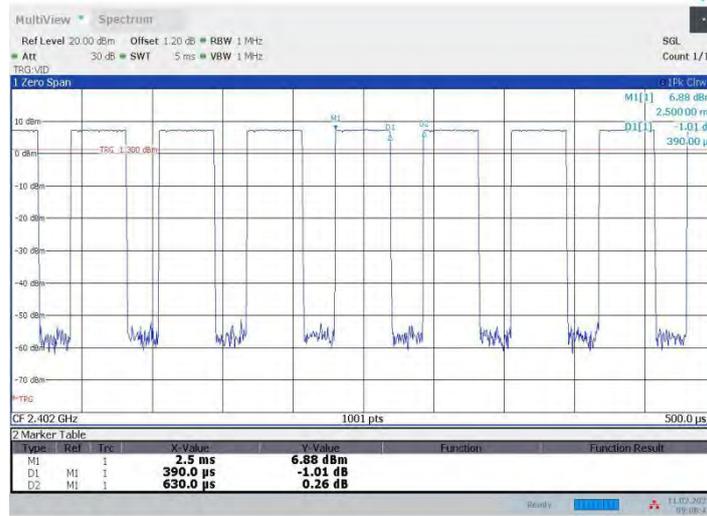
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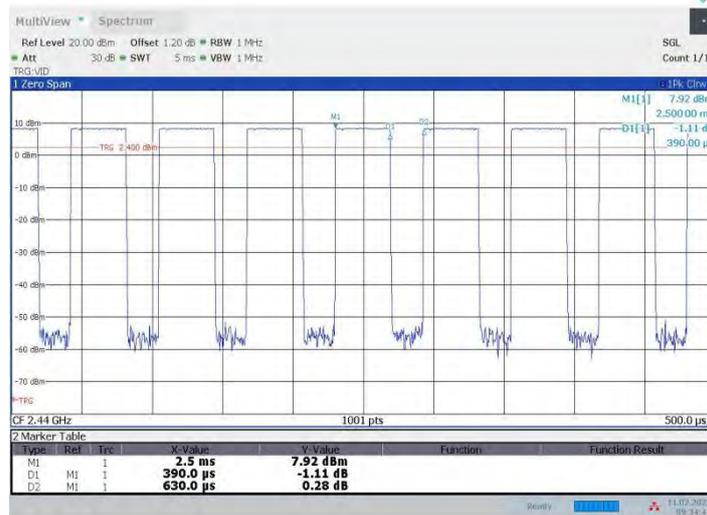
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BLE_1M_Ant18_2402



09:08:43 11.02.2022

BLE_1M_Ant18_2440



09:34:47 11.02.2022

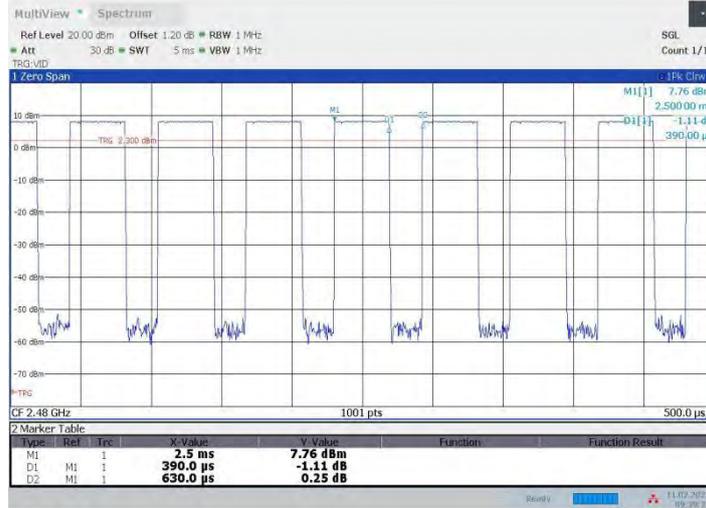


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BLE_1M_Ant18_2480



09:39:32 11.02.2022

BLE_2M_Ant18_2402



03:39:30 16.02.2022

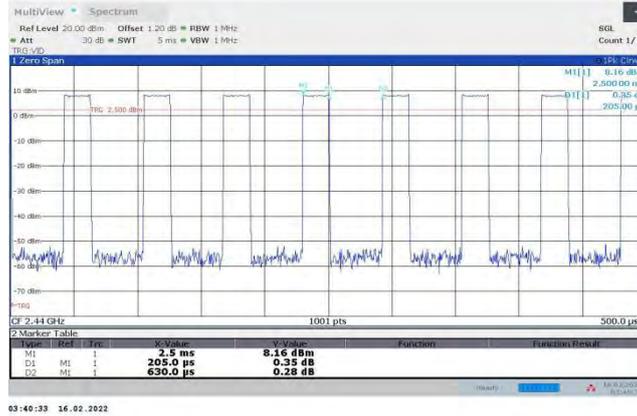


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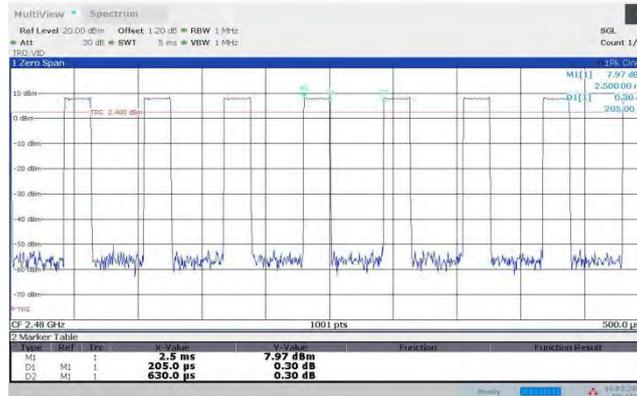
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BLE_2M_Ant18_2440



03:40:33 16.02.2022

BLE_2M_Ant18_2480



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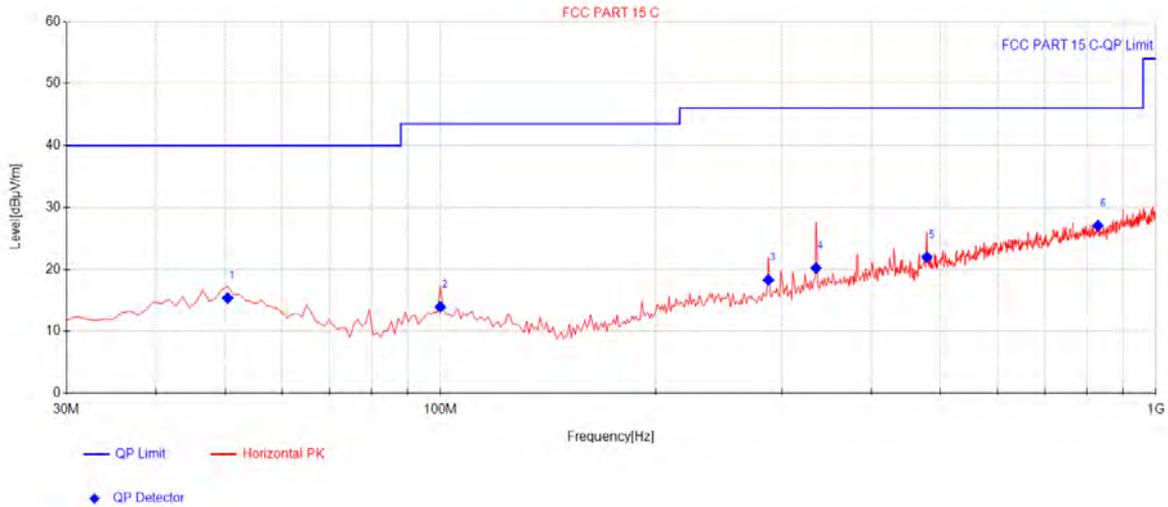
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 (Wireless Laboratory)

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Radiated emission below 1GHz

Worst case mode: BLE_2M_Channel 0 (ANT16)



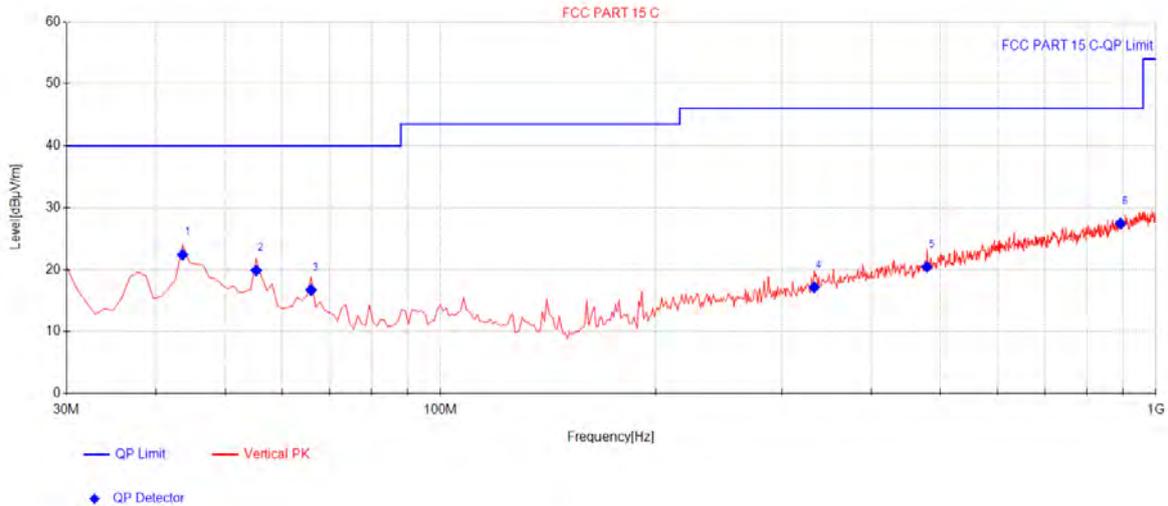
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1	50.3904	29.68	-14.29	15.39	40.00	24.61	162	120	Horizontal
2	99.9099	30.52	-16.57	13.95	43.50	29.55	185	167	Horizontal
3	287.3073	31.66	-13.36	18.30	46.00	27.70	196	93	Horizontal
4	334.8849	31.86	-11.64	20.22	46.00	25.78	248	274	Horizontal
5	478.5886	30.52	-8.54	21.98	46.00	24.02	115	149	Horizontal
6	830.0801	29.45	-2.39	27.06	46.00	18.94	162	230	Horizontal



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Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5936	37.65	-15.24	22.41	40.00	17.59	162	233	Vertical
2	55.2452	35.15	-15.27	19.88	40.00	20.12	185	223	Vertical
3	65.9259	34.62	-17.90	16.72	40.00	23.28	145	251	Vertical
4	332.9429	28.86	-11.70	17.16	46.00	28.84	245	351	Vertical
5	478.5886	28.99	-8.54	20.45	46.00	25.55	185	93	Vertical
6	892.2222	29	-1.55	27.45	46.00	18.55	144	86	Vertical

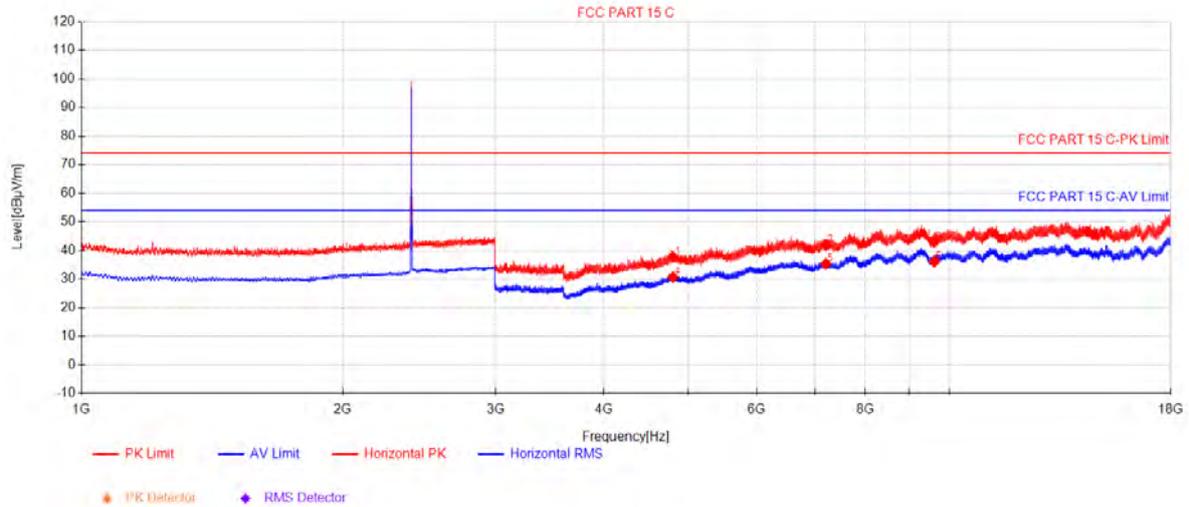


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**Radiated emission Above 1GHz
EMISSION BLE1M Channel 00 ANT16**

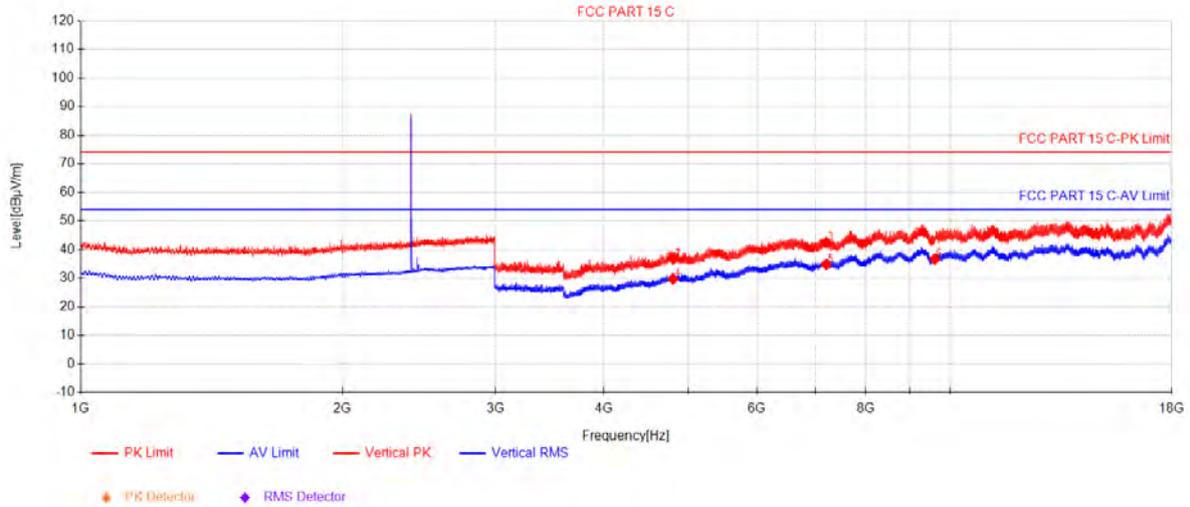


Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.03	-12.33	37.70	74.00	36.30	126	357	Horizontal
2	7206	47.69	-5.91	41.78	74.00	32.22	235	259	Horizontal
3	9608	42.37	0.49	42.86	74.00	31.14	145	190	Horizontal
4	4804	42.96	-12.33	30.63	54.00	23.37	196	19	Horizontal
5	7206	41.15	-5.91	35.24	54.00	18.76	248	259	Horizontal
6	9608	35.56	0.49	36.05	54.00	17.95	268	0	Horizontal



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EMISSION BLE1M Channel 00 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.00	-12.33	36.67	74.00	37.33	196	186	Vertical
2	4804	49.00	-12.33	36.67	74.00	37.33	150	294	Vertical
3	7206	48.38	-5.91	42.47	74.00	31.53	268	156	Vertical
4	4804	41.95	-12.33	29.62	54.00	24.38	169	286	Vertical
5	7206	40.64	-5.91	34.73	54.00	19.27	186	144	Vertical
6	9608	36.15	0.49	36.64	54.00	17.36	245	211	Vertical

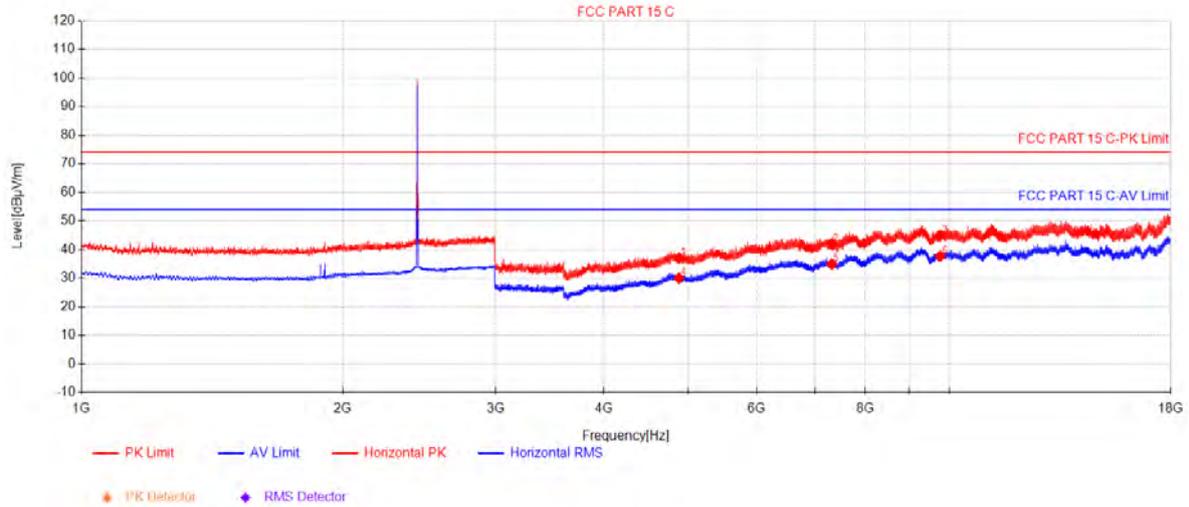


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EMISSION BLE1M Channel 19 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.47	-12.48	36.99	74.00	37.01	158	97	Horizontal
2	7320	47.35	-5.41	41.94	74.00	32.06	194	132	Horizontal
3	9760	43.88	1.02	44.90	74.00	29.10	236	132	Horizontal
4	4880	42.44	-12.48	29.96	54.00	24.04	175	97	Horizontal
5	7320	40.24	-5.41	34.83	54.00	19.17	168	63	Horizontal
6	9760	36.62	1.02	37.64	54.00	16.36	199	168	Horizontal

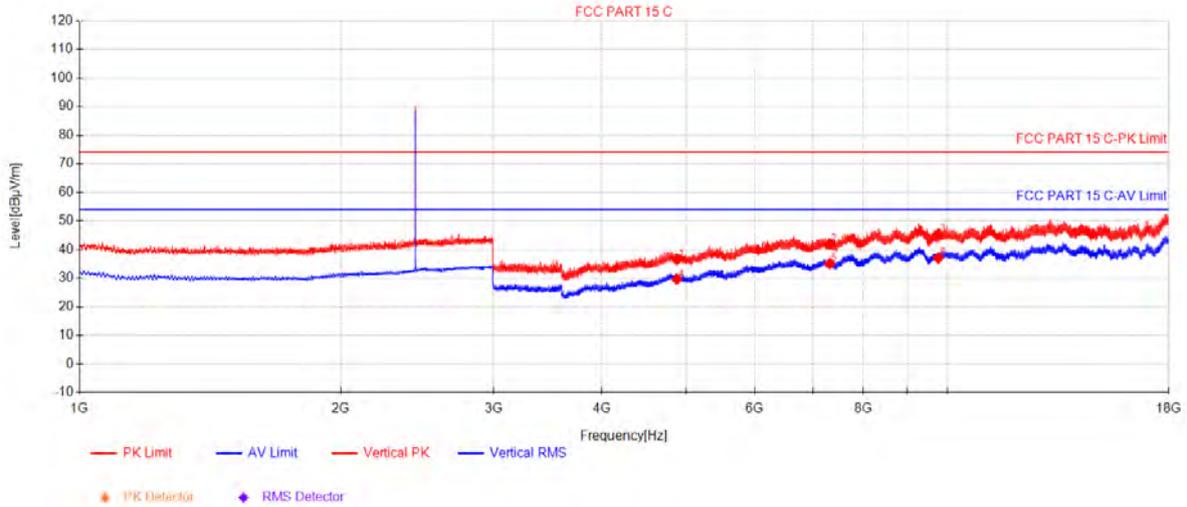


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EMISSION BLE1M Channel 19 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.00	-12.48	36.52	74.00	37.48	169	90	Vertical
2	7320	47.38	-5.41	41.97	74.00	32.03	142	262	Vertical
3	9760	44.33	1.02	45.35	74.00	28.65	188	90	Vertical
4	4880	42.05	-12.48	29.57	54.00	24.43	162	157	Vertical
5	7320	40.47	-5.41	35.06	54.00	18.94	186	126	Vertical
6	9760	35.98	1.02	37.00	54.00	17.00	248	357	Vertical

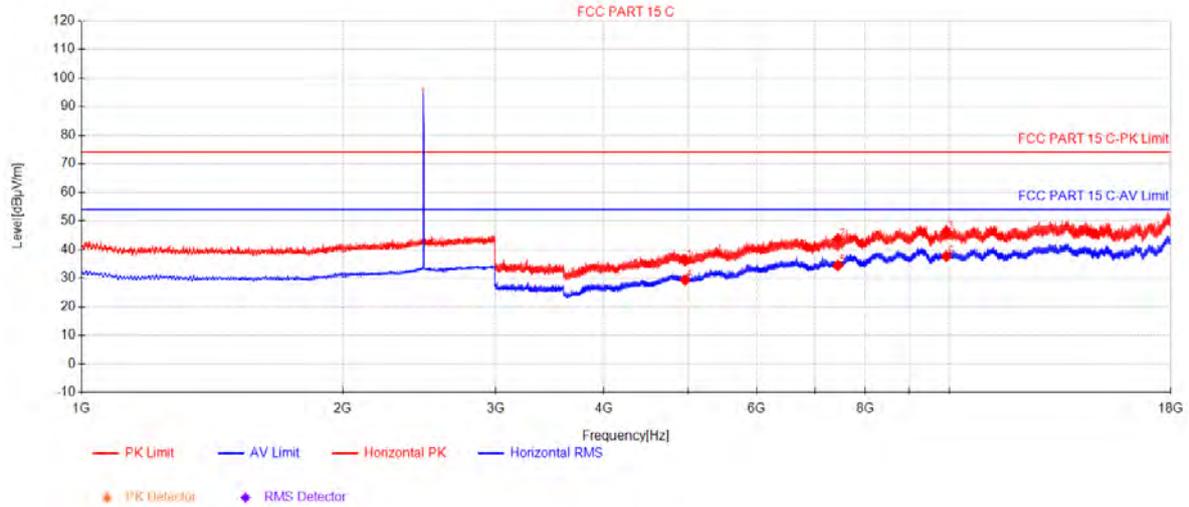


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EMISSION BLE1M Channel 39 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	48.59	-12.41	36.18	74.00	37.82	126	327	Horizontal
2	7440	49.05	-5.36	43.69	74.00	30.31	142	92	Horizontal
3	9920	45.00	1.29	46.29	74.00	27.71	235	125	Horizontal
4	4960	41.72	-12.41	29.31	54.00	24.69	196	228	Horizontal
5	7440	39.72	-5.36	34.36	54.00	19.64	124	19	Horizontal
6	9920	36.31	1.29	37.60	54.00	16.40	218	3	Horizontal

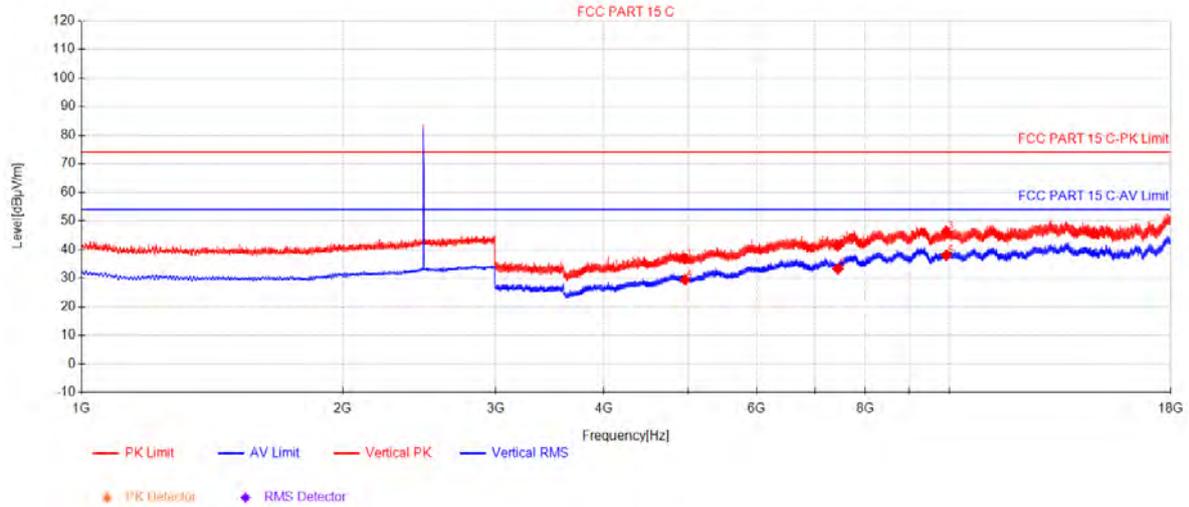


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EMISSION BLE1M Channel 39 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.18	-12.41	36.77	74.00	37.23	145	152	Vertical
2	7440	46.72	-5.36	41.36	74.00	32.64	189	49	Vertical
3	9920	44.98	1.29	46.27	74.00	27.73	126	119	Vertical
4	4960	41.80	-12.41	29.39	54.00	24.61	249	96	Vertical
5	7440	38.60	-5.36	33.24	54.00	20.76	186	48	Vertical
6	9920	36.66	1.29	37.95	54.00	16.05	215	258	Vertical

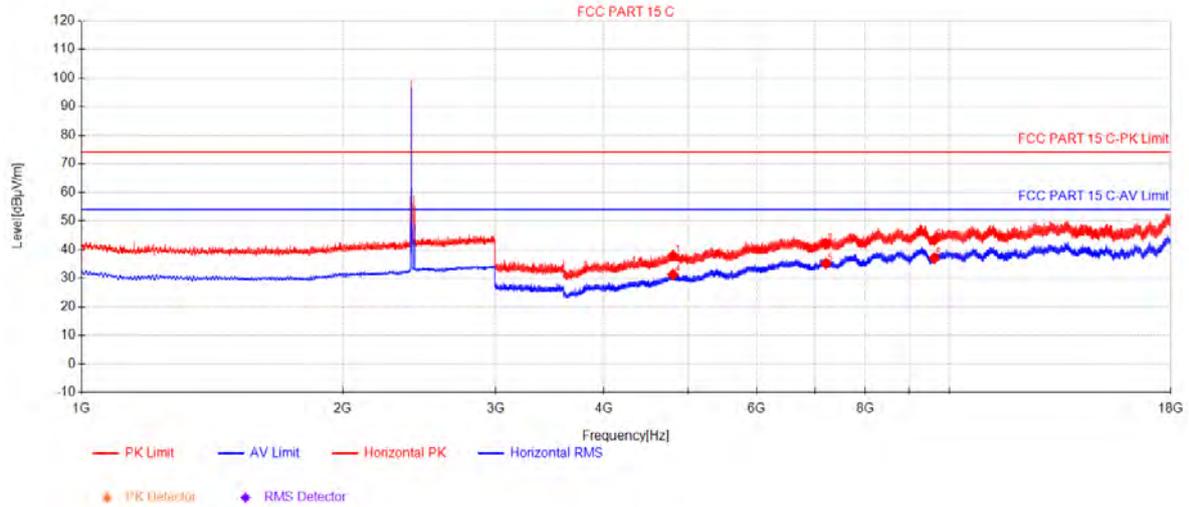


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EMISSION BLE1M Channel 00 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.17	-12.33	37.84	74.00	36.16	195	223	Horizontal
2	7206	47.90	-5.91	41.99	74.00	32.01	124	47	Horizontal
3	9608	42.80	0.49	43.29	74.00	30.71	168	295	Horizontal
4	4804	43.51	-12.33	31.18	54.00	22.82	196	96	Horizontal
5	7206	40.97	-5.91	35.06	54.00	18.94	246	186	Horizontal
6	9608	36.48	0.49	36.97	54.00	17.03	289	245	Horizontal

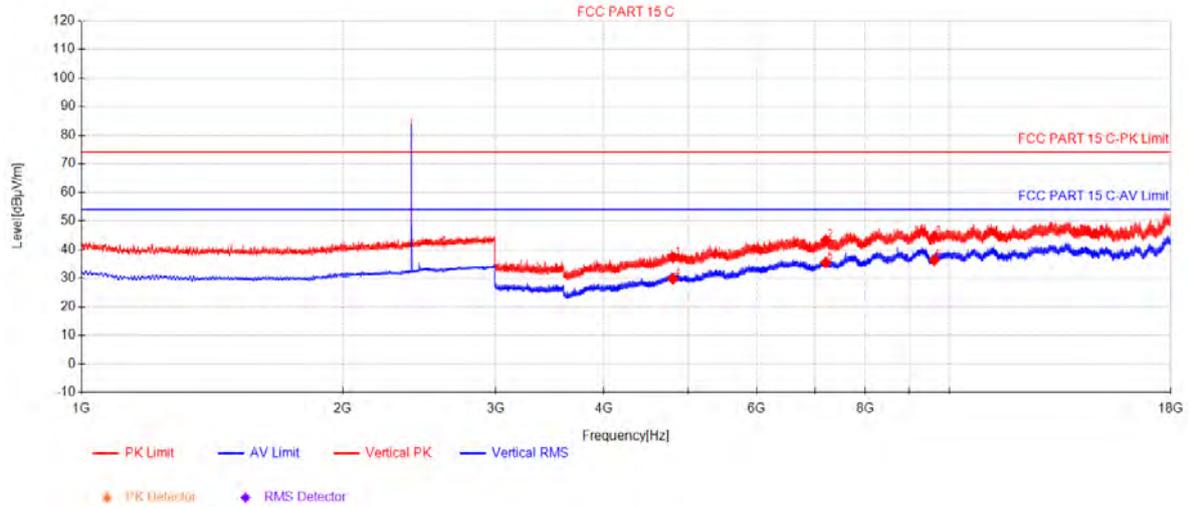


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Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.60	-12.33	37.27	74.00	36.73	198	15	Vertical
2	7206	49.16	-5.91	43.25	74.00	30.75	184	223	Vertical
3	9608	44.08	0.49	44.57	74.00	29.43	122	83	Vertical
4	4804	42.03	-12.33	29.70	54.00	24.30	168	152	Vertical
5	7206	41.32	-5.91	35.41	54.00	18.59	195	96	Vertical
6	9608	35.81	0.49	36.30	54.00	17.70	248	119	Vertical

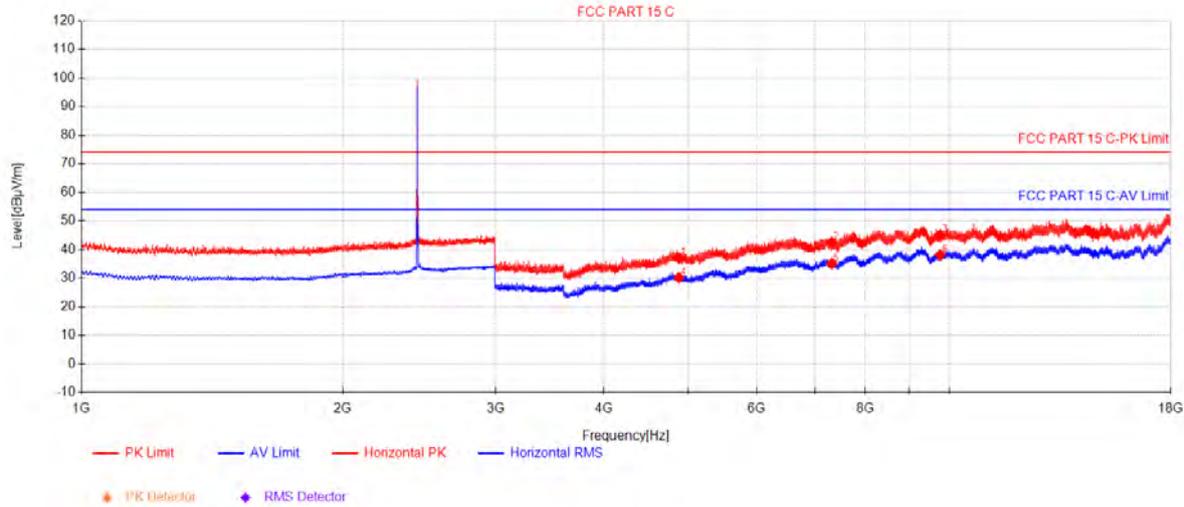


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NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.45	-12.48	36.97	74.00	37.03	185	327	Horizontal
2	7320	47.93	-5.41	42.52	74.00	31.48	164	356	Horizontal
3	9760	43.98	1.02	45.00	74.00	29.00	193	0	Horizontal
4	4880	42.60	-12.48	30.12	54.00	23.88	196	88	Horizontal
5	7320	40.47	-5.41	35.06	54.00	18.94	124	19	Horizontal
6	9760	37.06	1.02	38.08	54.00	15.92	294	292	Horizontal

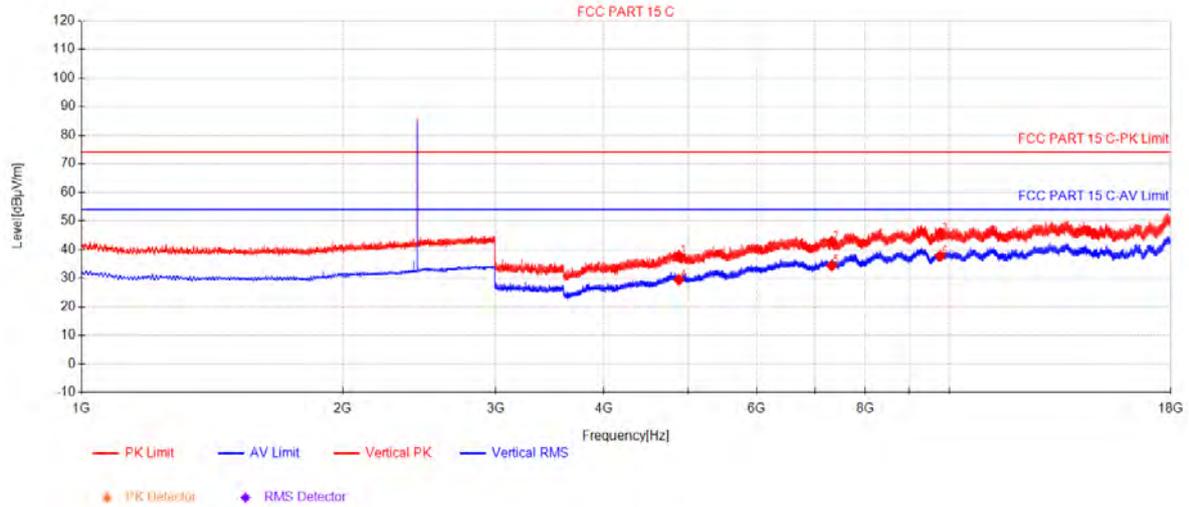


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EMISSION BLE1M Channel 19 ANT18

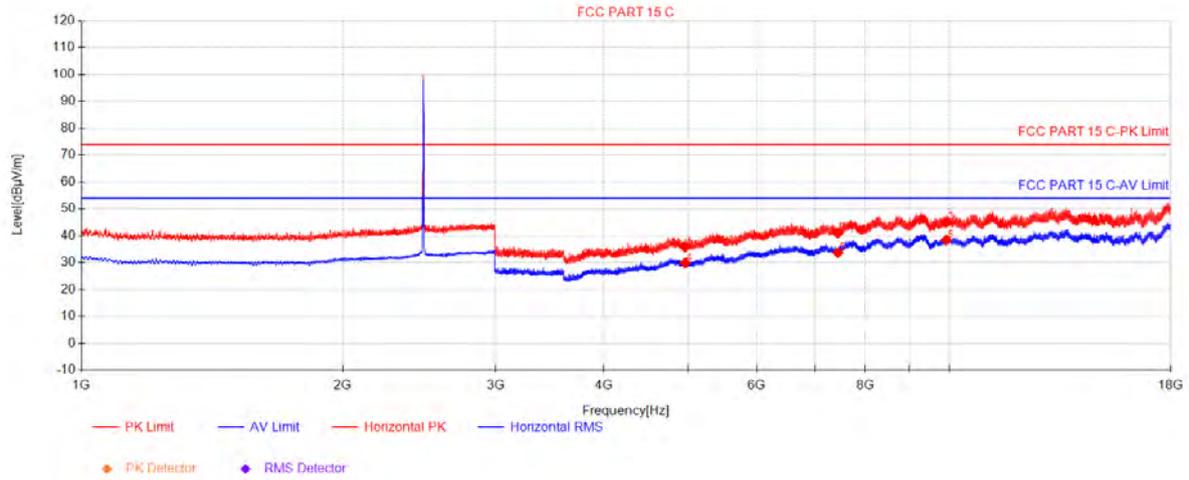


Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	50.25	-12.48	37.77	74.00	36.23	166	117	Vertical
2	7320	48.16	-5.41	42.75	74.00	31.25	145	223	Vertical
3	9760	44.69	1.02	45.71	74.00	28.29	195	17	Vertical
4	4880	41.86	-12.48	29.38	54.00	24.62	216	295	Vertical
5	7320	39.68	-5.41	34.27	54.00	19.73	189	259	Vertical
6	9760	36.65	1.02	37.67	54.00	16.33	254	2	Vertical



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1	4960	48.18	-12.41	35.77	74.00	38.23	169	26	Horizontal
2	7440	46.26	-5.36	40.90	74.00	33.10	246	86	Horizontal
3	9920	43.81	1.29	45.10	74.00	28.90	284	256	Horizontal
4	4960	42.29	-12.41	29.88	54.00	24.12	118	154	Horizontal
5	7440	39.04	-5.36	33.68	54.00	20.32	226	245	Horizontal
6	9920	37.12	1.29	38.41	54.00	15.59	186	196	Horizontal

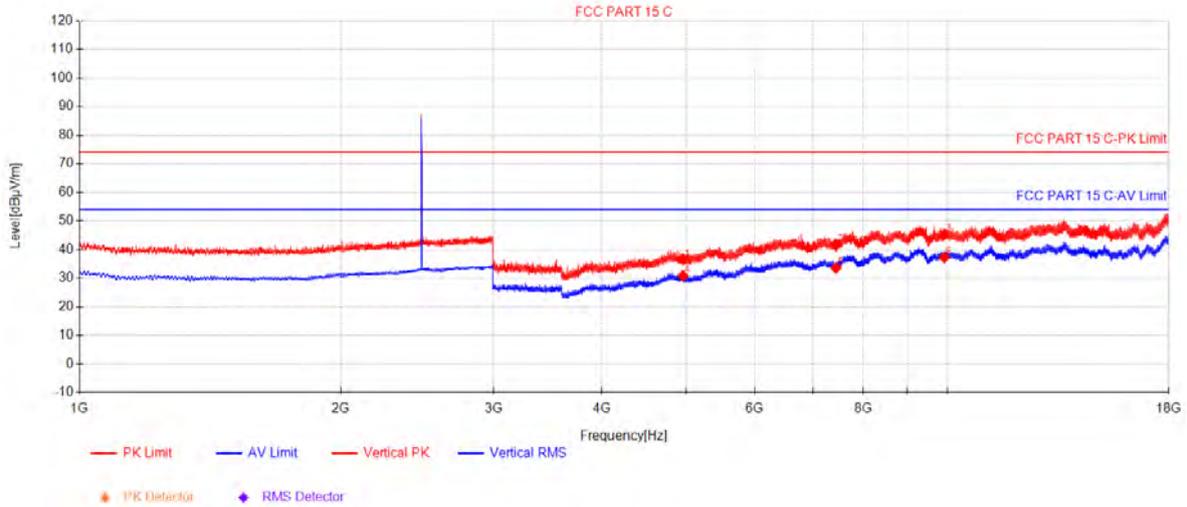


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EMISSION BLE1M Channel 39 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	48.94	-12.41	36.53	74.00	37.47	196	188	Vertical
2	7440	47.07	-5.36	41.71	74.00	32.29	248	223	Vertical
3	9920	43.97	1.29	45.26	74.00	28.74	267	119	Vertical
4	4960	43.19	-12.41	30.78	54.00	23.22	247	1	Vertical
5	7440	38.89	-5.36	33.53	54.00	20.47	225	119	Vertical
6	9920	35.96	1.29	37.25	54.00	16.75	188	86	Vertical

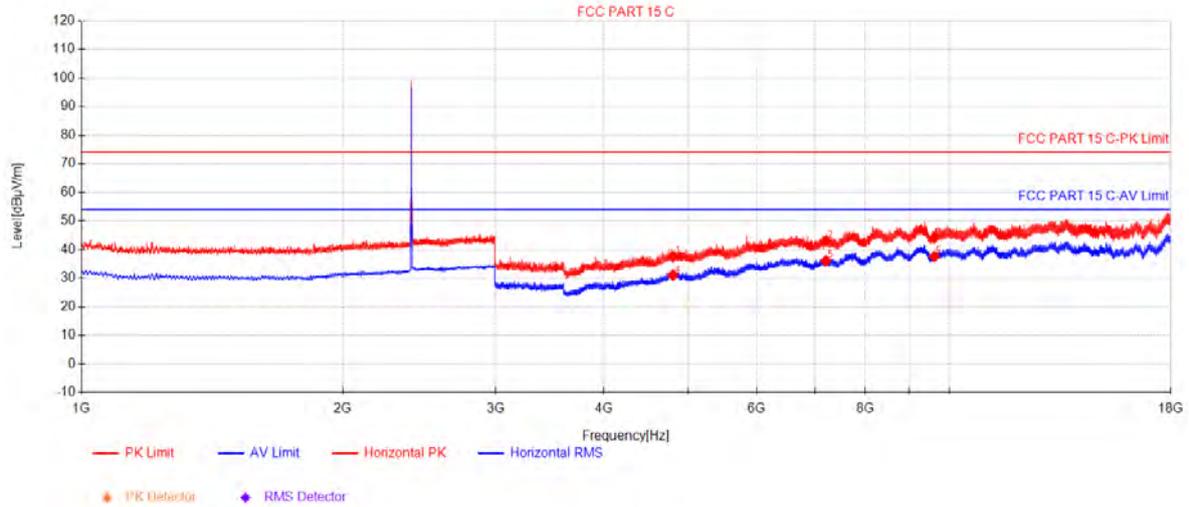


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EMISSION BLE2M Channel 00 ANT16

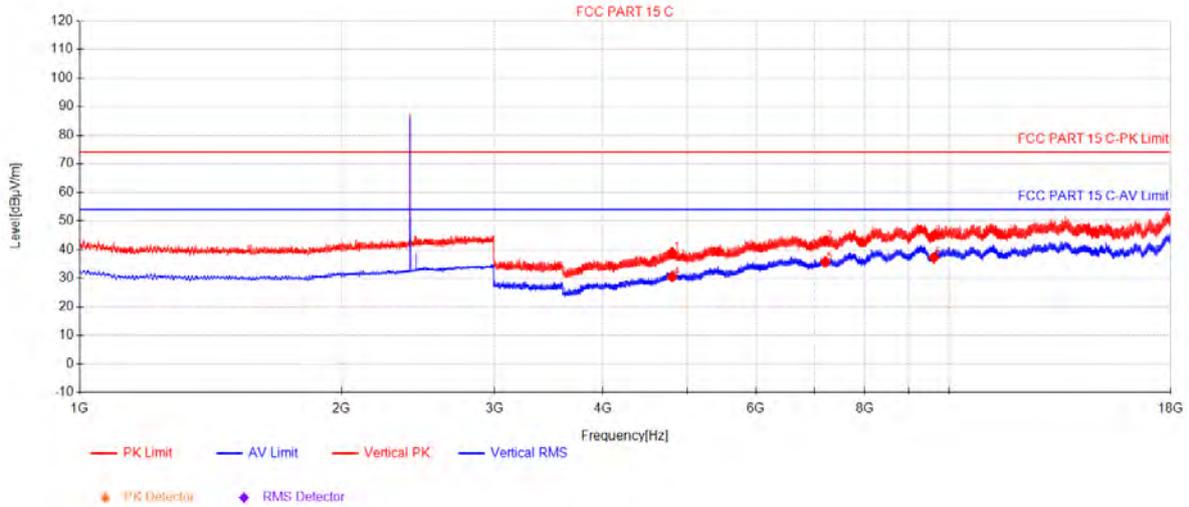


Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.78	-12.33	37.45	74.00	36.55	196	119	Horizontal
2	7206	48.86	-5.91	42.95	74.00	31.05	249	290	Horizontal
3	9608	43.54	0.49	44.03	74.00	29.97	321	256	Horizontal
4	4804	43.37	-12.33	31.04	54.00	22.96	268	83	Horizontal
5	7206	41.92	-5.91	36.01	54.00	17.99	186	50	Horizontal
6	9608	37.04	0.49	37.53	54.00	16.47	245	290	Horizontal



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EMISSION BLE2M Channel 00 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	51.21	-12.33	38.88	74.00	35.12	162	17	Vertical
2	7206	48.90	-5.91	42.99	74.00	31.01	186	86	Vertical
3	9608	44.43	0.49	44.92	74.00	29.08	246	96	Vertical
4	4804	42.79	-12.33	30.46	54.00	23.54	185	186	Vertical
5	7206	41.53	-5.91	35.62	54.00	18.38	156	154	Vertical
6	9608	36.66	0.49	37.15	54.00	16.85	162	2	Vertical

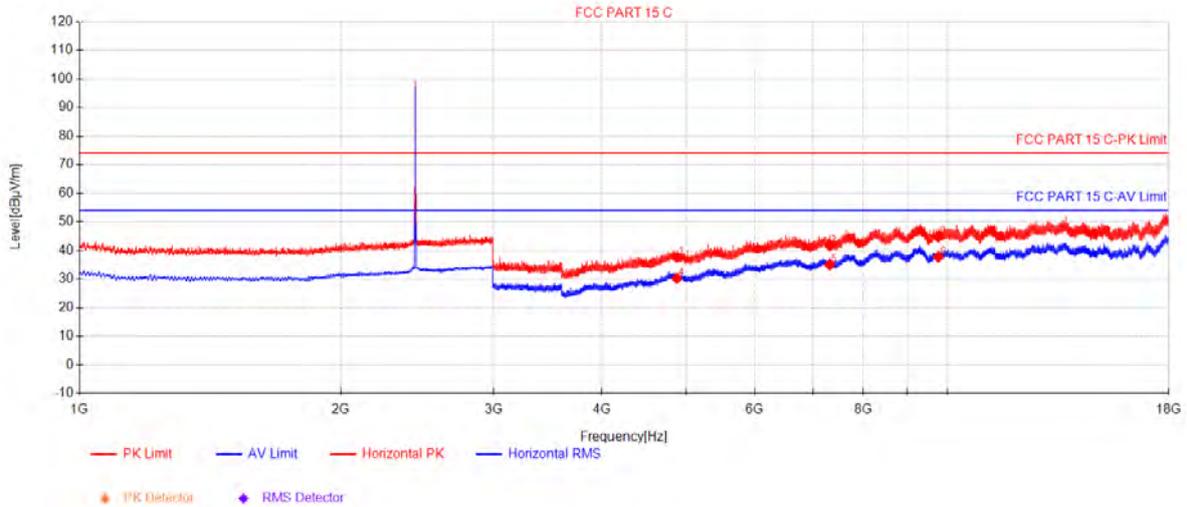


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EMISSION BLE2M Channel 19 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	50.12	-12.48	37.64	74.00	36.36	169	358	Horizontal
2	7320	47.10	-5.41	41.69	74.00	32.31	245	295	Horizontal
3	9760	43.67	1.02	44.69	74.00	29.31	286	117	Horizontal
4	4880	42.74	-12.48	30.26	54.00	23.74	186	295	Horizontal
5	7320	40.37	-5.41	34.96	54.00	19.04	175	328	Horizontal
6	9760	36.69	1.02	37.71	54.00	16.29	146	1	Horizontal

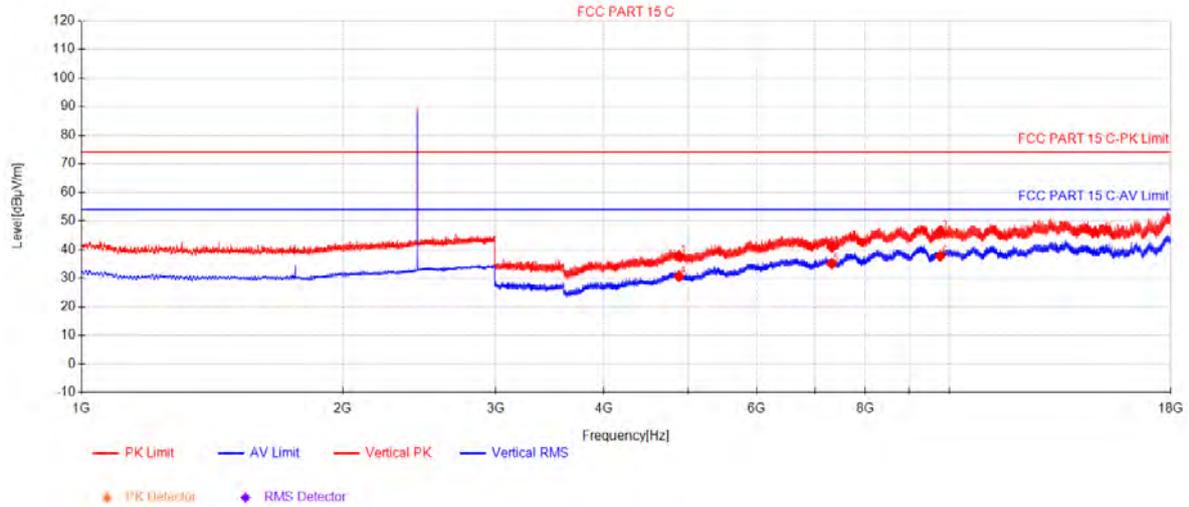


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NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	50.26	-12.48	37.78	74.00	36.22	196	52	Vertical
2	7320	46.26	-5.41	40.85	74.00	33.15	246	256	Vertical
3	9760	45.39	1.02	46.41	74.00	27.59	284	256	Vertical
4	4880	43.08	-12.48	30.60	54.00	23.40	196	0	Vertical
5	7320	40.46	-5.41	35.05	54.00	18.95	156	328	Vertical
6	9760	36.67	1.02	37.69	54.00	16.31	124	119	Vertical

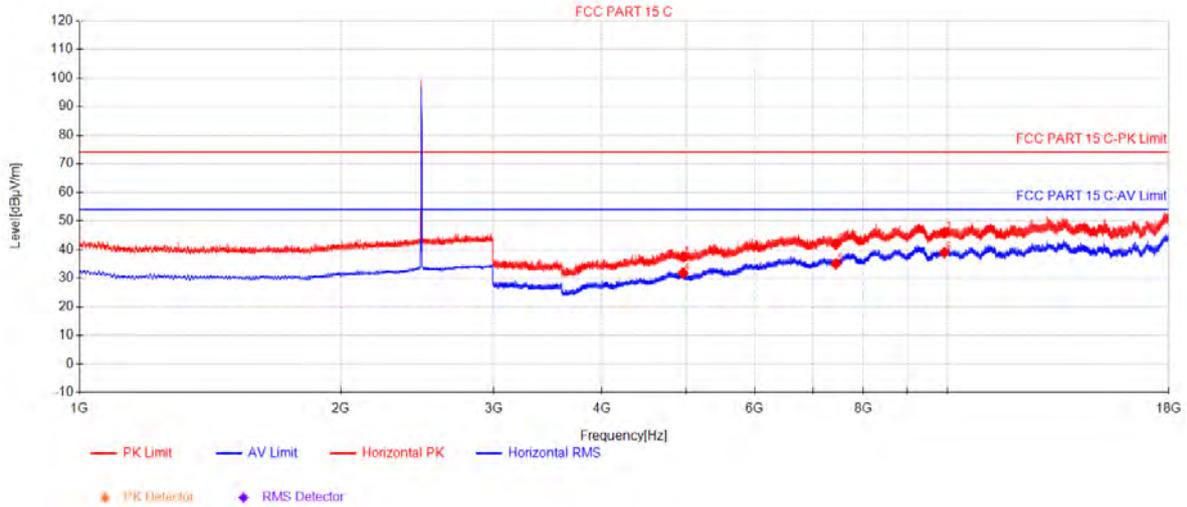


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NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.85	-12.41	37.44	74.00	36.56	269	356	Horizontal
2	7440	47.25	-5.36	41.89	74.00	32.11	126	258	Horizontal
3	9920	44.57	1.29	45.86	74.00	28.14	246	53	Horizontal
4	4960	44.16	-12.41	31.75	54.00	22.25	168	188	Horizontal
5	7440	40.31	-5.36	34.95	54.00	19.05	124	84	Horizontal
6	9920	37.63	1.29	38.92	54.00	15.08	196	123	Horizontal

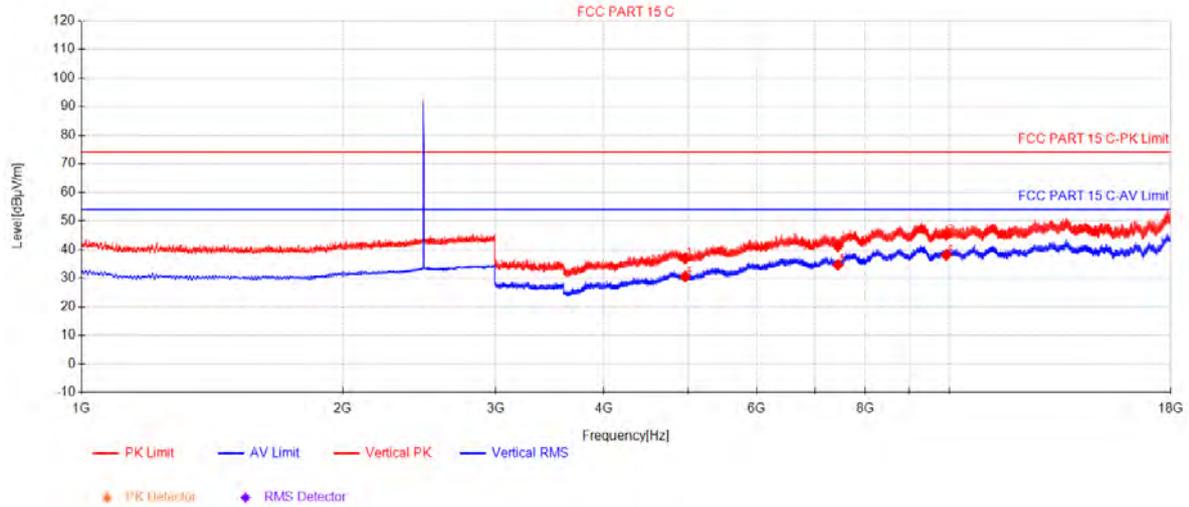


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1	4960	49.27	-12.41	36.86	74.00	37.14	185	117	Vertical
2	7440	46.50	-5.36	41.14	74.00	32.86	168	117	Vertical
3	9920	43.73	1.29	45.02	74.00	28.98	124	186	Vertical
4	4960	42.91	-12.41	30.50	54.00	23.50	268	15	Vertical
5	7440	39.92	-5.36	34.56	54.00	19.44	186	357	Vertical
6	9920	36.71	1.29	38.00	54.00	16.00	249	259	Vertical

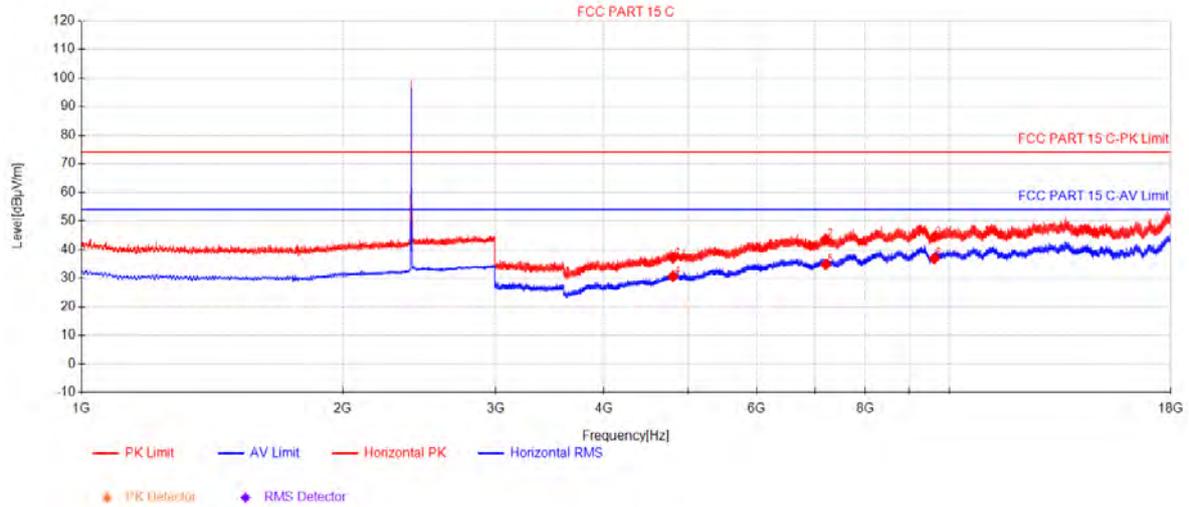


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EMISSION BLE2M Channel 00 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.41	-12.33	37.08	74.00	36.92	165	357	Horizontal
2	7206	49.49	-5.91	43.58	74.00	30.42	124	3	Horizontal
3	9608	43.83	0.49	44.32	74.00	29.68	265	204	Horizontal
4	4804	42.92	-12.33	30.59	54.00	23.41	189	170	Horizontal
5	7206	40.63	-5.91	34.72	54.00	19.28	246	170	Horizontal
6	9608	36.37	0.49	36.86	54.00	17.14	289	360	Horizontal

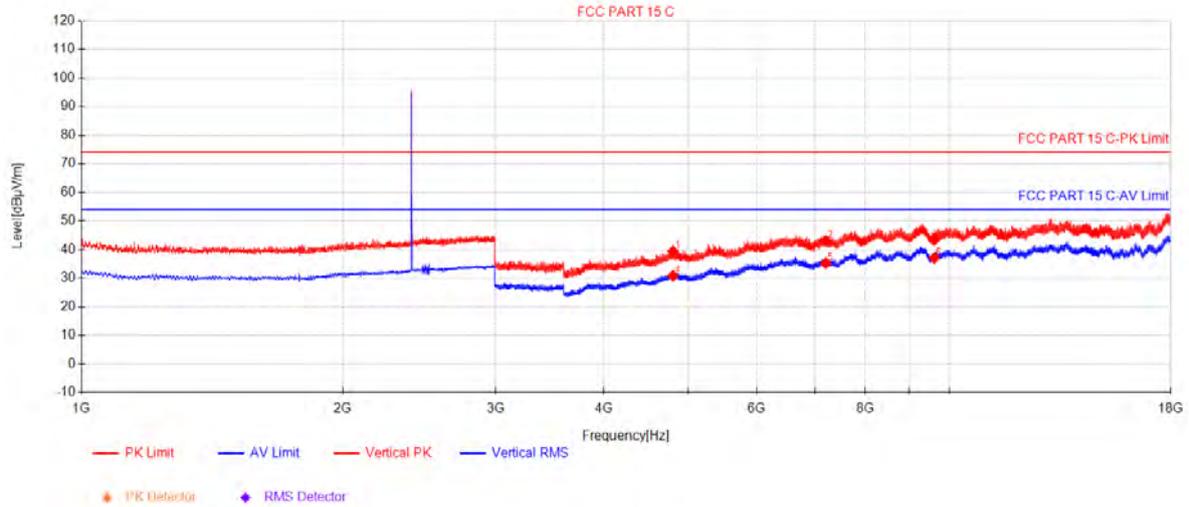


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Data List									
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1	4804	51.70	-12.33	39.37	74.00	34.63	169	357	Vertical
2	7206	48.98	-5.91	43.07	74.00	30.93	186	34	Vertical
3	9608	42.81	0.49	43.30	74.00	30.70	235	3	Vertical
4	4804	43.14	-12.33	30.81	54.00	23.19	297	101	Vertical
5	7206	41.12	-5.91	35.21	54.00	18.79	186	203	Vertical
6	9608	36.52	0.49	37.01	54.00	16.99	256	33	Vertical

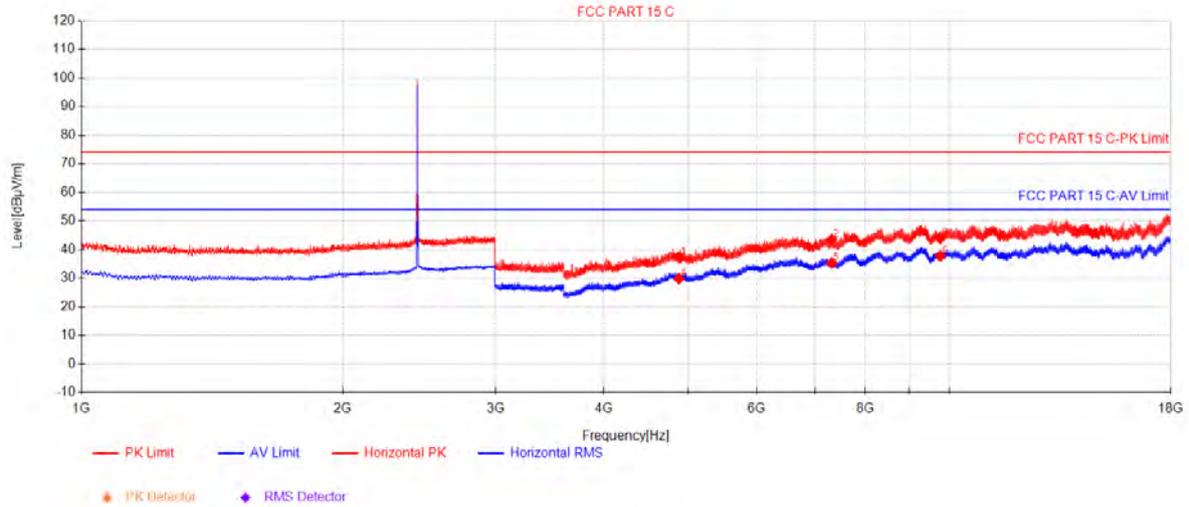


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1	4880	49.84	-12.48	37.36	74.00	36.64	163	66	Horizontal
2	7320	48.90	-5.41	43.49	74.00	30.51	264	342	Horizontal
3	9760	42.82	1.02	43.84	74.00	30.16	245	135	Horizontal
4	4880	42.25	-12.48	29.77	54.00	24.23	196	360	Horizontal
5	7320	40.66	-5.41	35.25	54.00	18.75	245	102	Horizontal
6	9760	36.69	1.02	37.71	54.00	16.29	298	308	Horizontal

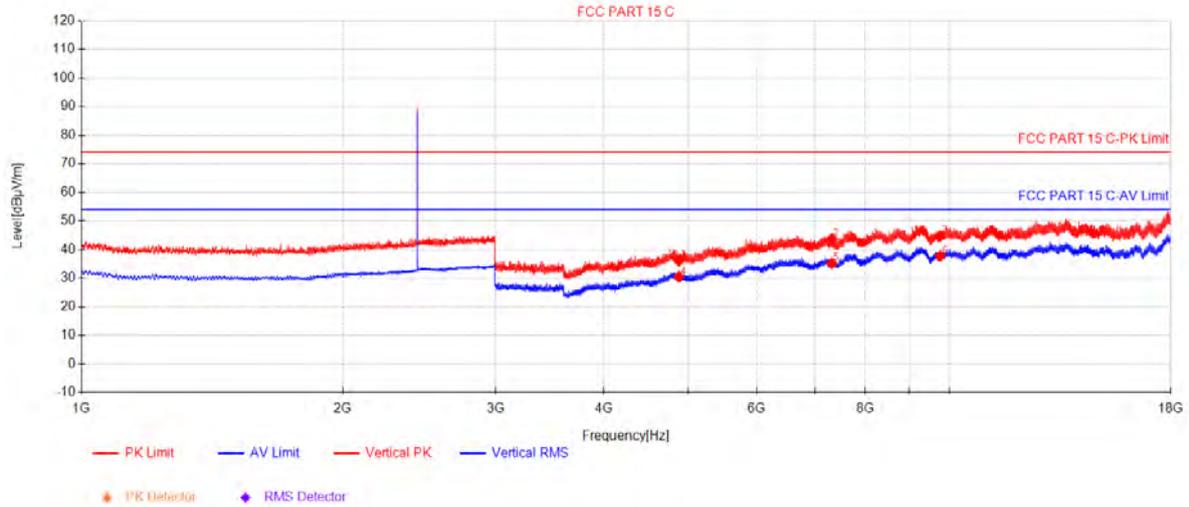


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EMISSION BLE2M Channel 19 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	48.53	-12.48	36.05	74.00	37.95	125	104	Vertical
2	7320	49.13	-5.41	43.72	74.00	30.28	186	310	Vertical
3	9760	43.69	1.02	44.71	74.00	29.29	196	206	Vertical
4	4880	42.93	-12.48	30.45	54.00	23.55	295	360	Vertical
5	7320	40.54	-5.41	35.13	54.00	18.87	189	243	Vertical
6	9760	36.67	1.02	37.69	54.00	16.31	244	33	Vertical

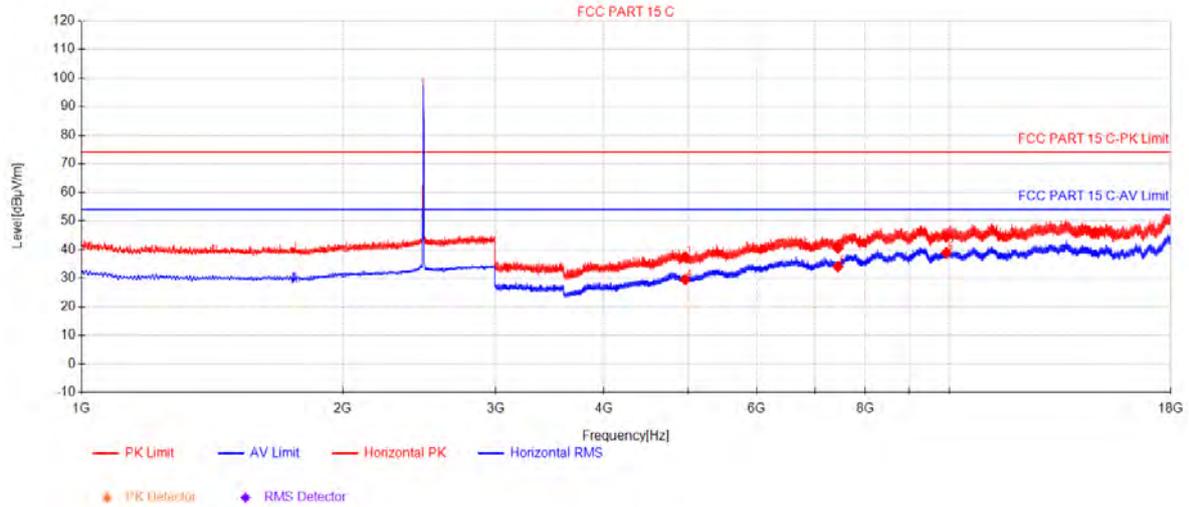


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EMISSION BLE2M Channel 39 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.87	-12.41	37.46	74.00	36.54	196	172	Horizontal
2	7440	45.85	-5.36	40.49	74.00	33.51	246	309	Horizontal
3	9920	43.06	1.29	44.35	74.00	29.65	284	358	Horizontal
4	4960	41.85	-12.41	29.44	54.00	24.56	218	309	Horizontal
5	7440	39.34	-5.36	33.98	54.00	20.02	186	35	Horizontal
6	9920	37.58	1.29	38.87	54.00	15.13	126	105	Horizontal

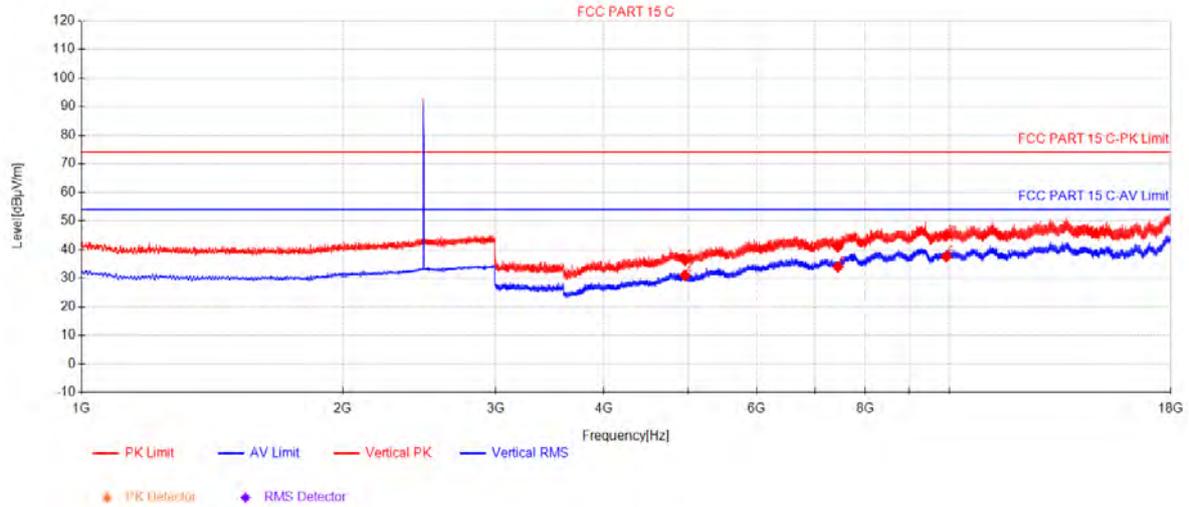


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EMISSION BLE2M Channel 39 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	48.71	-12.41	36.30	74.00	37.70	146	208	Vertical
2	7440	46.31	-5.36	40.95	74.00	33.05	248	360	Vertical
3	9920	43.48	1.29	44.77	74.00	29.23	176	172	Vertical
4	4960	43.36	-12.41	30.95	54.00	23.05	266	309	Vertical
5	7440	39.22	-5.36	33.86	54.00	20.14	154	172	Vertical
6	9920	36.19	1.29	37.48	54.00	16.52	115	343	Vertical



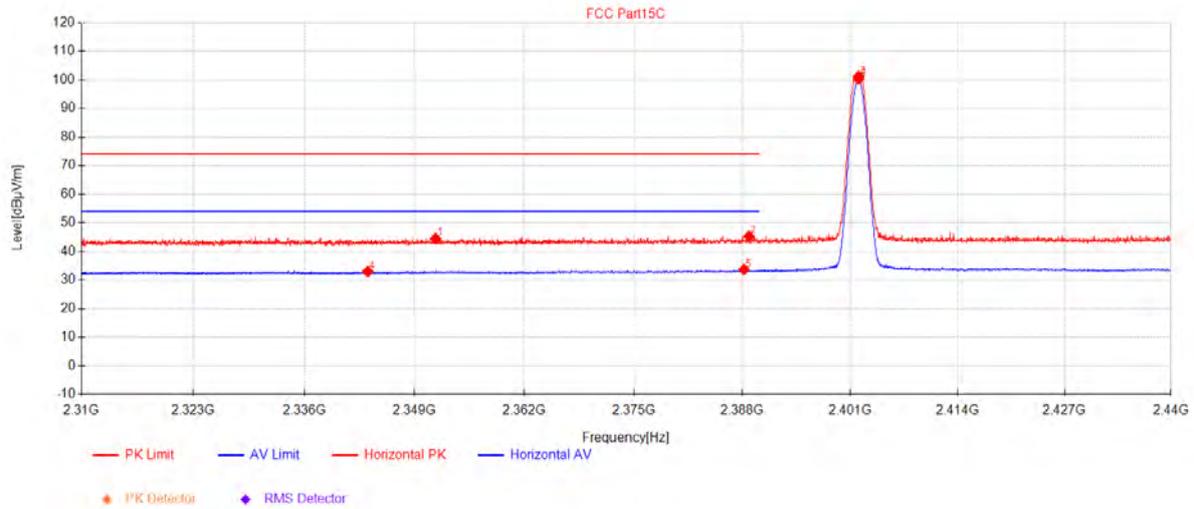
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Restricted bands around fundamental frequency

BAND_EDGE_BLE1M Channel 00 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2351.47	41.38	3.10	44.48	74.00	29.52	125	62	Horizontal
2	2388.8125	42.00	3.25	45.25	74.00	28.75	125	62	Horizontal
3	2402	97.79	3.31	101.10	-	-	125	62	Horizontal
4	2343.475	29.90	3.06	32.96	54.00	21.04	125	62	Horizontal
5	2388.195	30.39	3.25	33.64	54.00	20.36	125	62	Horizontal
6	2402	96.91	3.31	100.22	-	-	125	62	Horizontal



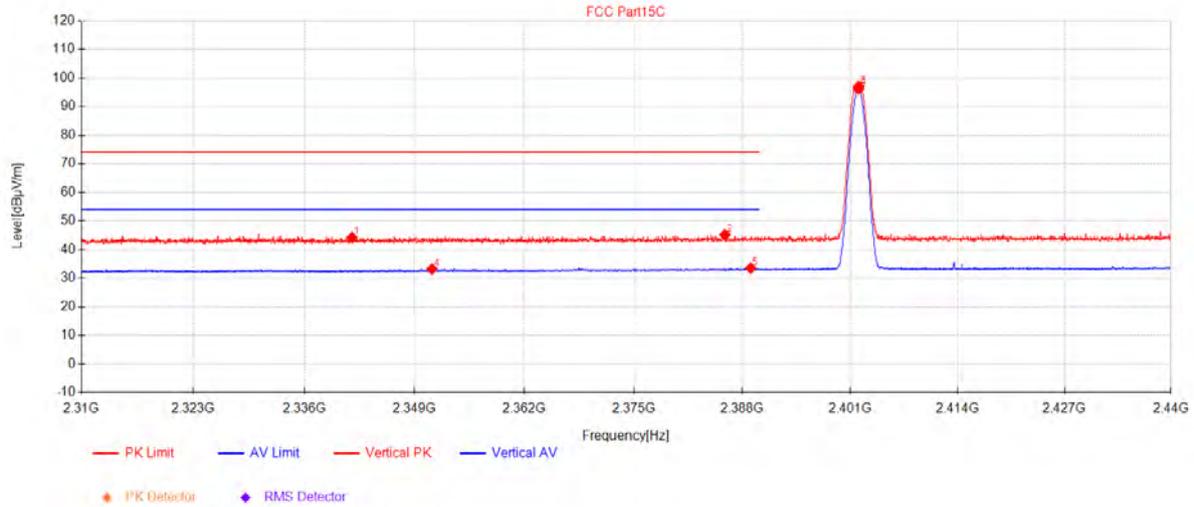
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BAND_EDGE_BLE1M Channel 00 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2341.6225	41.14	3.05	44.19	74.00	29.81	259	117	Vertical
2	2385.92	41.87	3.24	45.11	74.00	28.89	259	117	Vertical
3	2402	93.64	3.31	96.95	-	-	259	117	Vertical
4	2351.0475	30.09	3.09	33.18	54.00	20.82	259	117	Vertical
5	2389.0075	30.21	3.25	33.46	54.00	20.54	259	117	Vertical
6	2402	92.78	3.31	96.09	-	-	259	117	Vertical

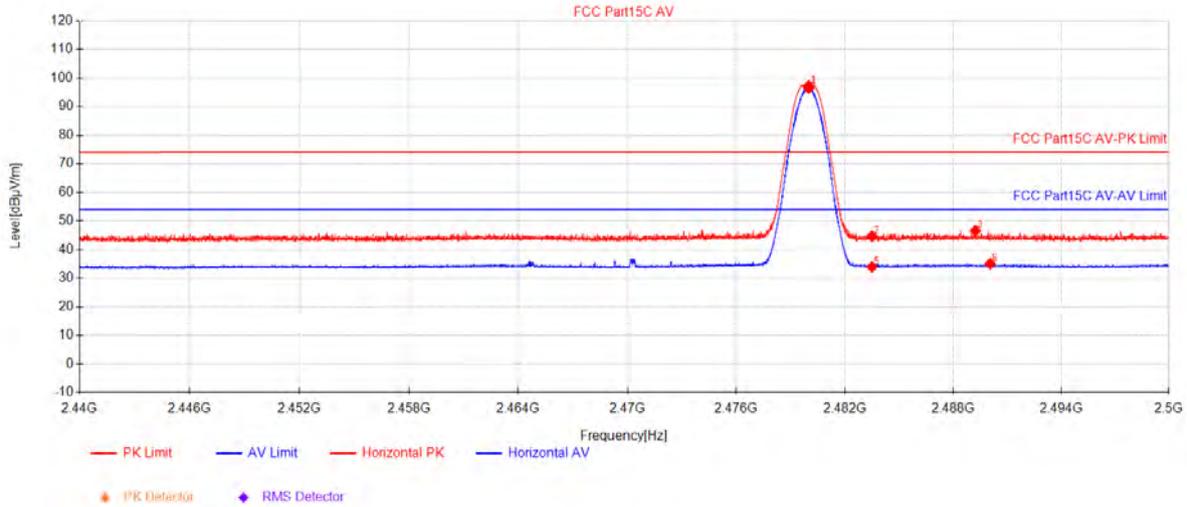


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BAND_EDGE_BLE1M Channel 39 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	93.25	3.88	97.13	-	-	112	156	Horizontal
2	2483.5	40.74	3.91	44.65	74.00	29.35	112	156	Horizontal
3	2489.2375	42.57	3.95	46.52	74.00	27.48	112	156	Horizontal
4	2480	92.50	3.88	96.38	-	-	112	156	Horizontal
5	2483.5	29.98	3.91	33.89	54.00	20.11	112	156	Horizontal
6	2490.055	31.06	3.96	35.02	54.00	18.98	112	156	Horizontal

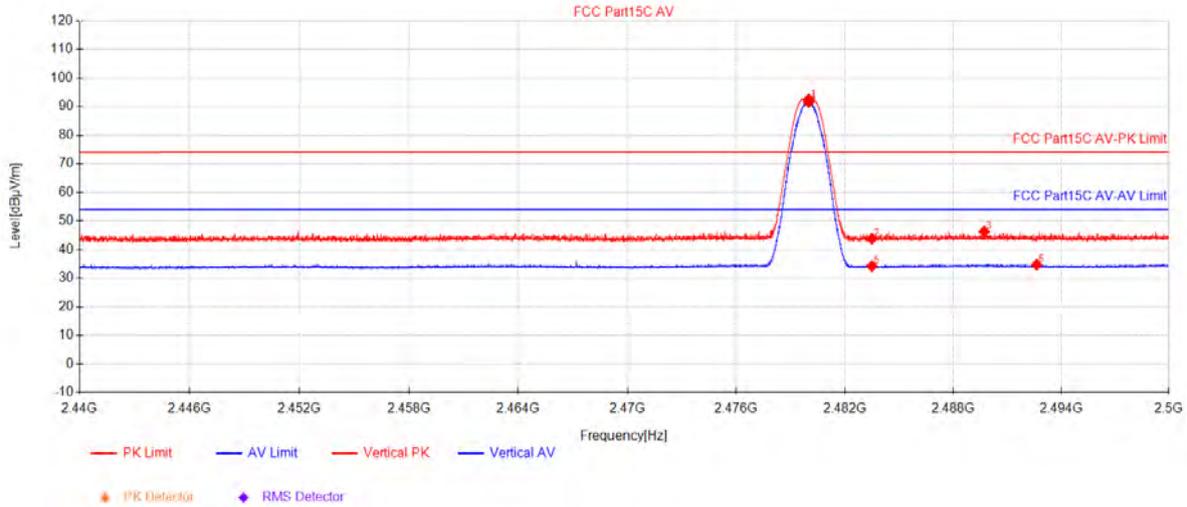


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BAND_EDGE_BLE1M Channel 39 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	88.51	3.88	92.39	-	-	125	190	Vertical
2	2483.5	39.87	3.91	43.78	74.00	30.22	125	190	Vertical
3	2489.725	42.28	3.95	46.23	74.00	27.77	125	190	Vertical
4	2480	87.63	3.88	91.51	-	-	125	190	Vertical
5	2483.5	30.27	3.91	34.18	54.00	19.82	125	190	Vertical
6	2492.6425	30.68	3.98	34.66	54.00	19.34	125	190	Vertical

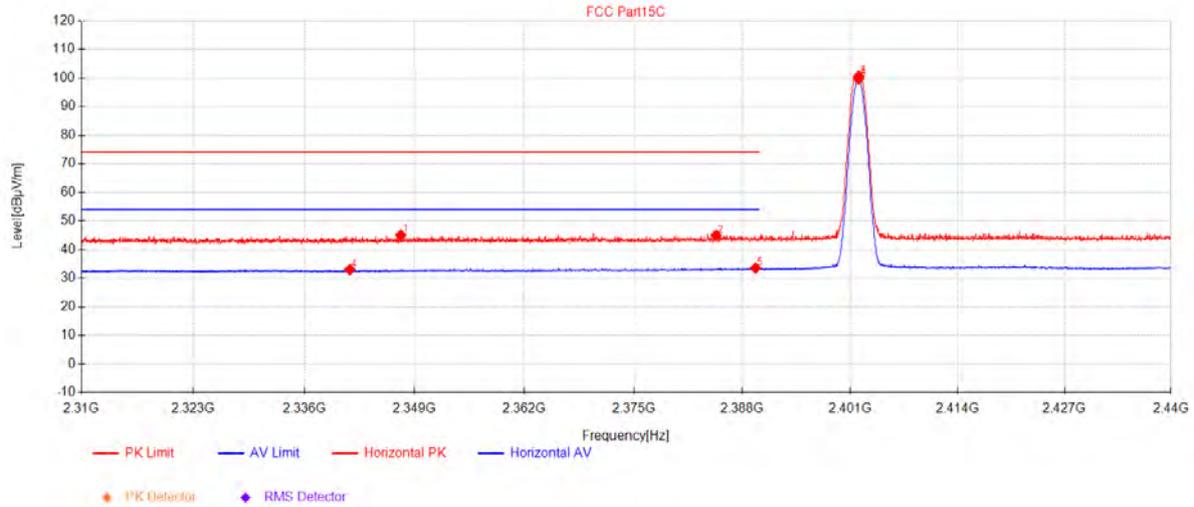


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BAND_EDGE_BLE1M Channel 00 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2347.375	41.91	3.08	44.99	74.00	29.01	126	330	Horizontal
2	2384.8475	41.70	3.24	44.94	74.00	29.06	126	330	Horizontal
3	2402	97.22	3.31	100.53	-	-	126	330	Horizontal
4	2341.3625	29.92	3.05	32.97	54.00	21.03	126	330	Horizontal
5	2389.5925	30.22	3.26	33.48	54.00	20.52	126	330	Horizontal
6	2402	96.31	3.31	99.62	-	-	126	330	Horizontal

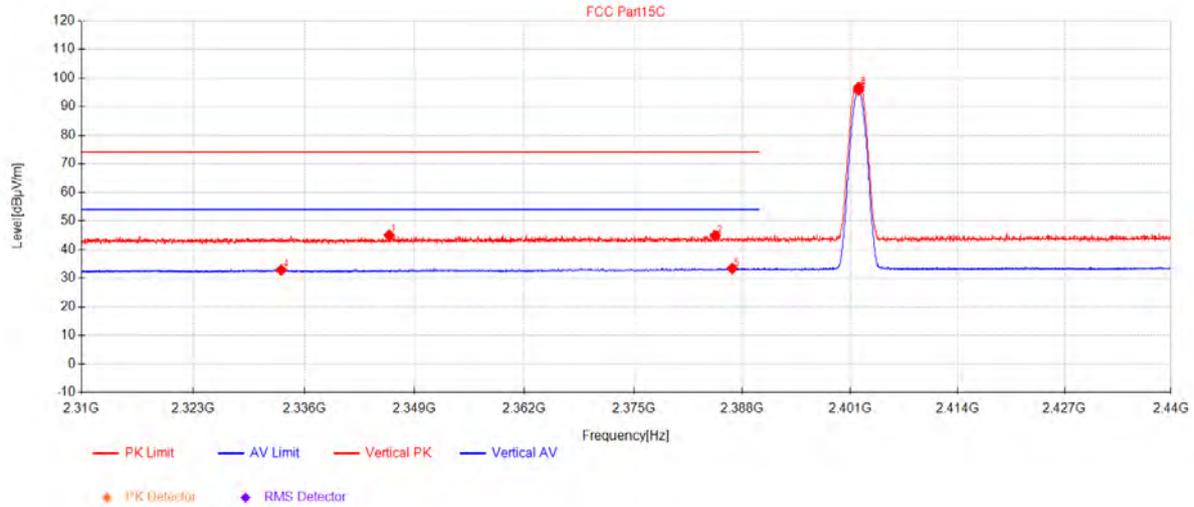


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BAND_EDGE_BLE1M Channel 00 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2346.01	41.93	3.07	45.00	74.00	29.00	233	72	Vertical
2	2384.75	41.70	3.24	44.94	74.00	29.06	233	72	Vertical
3	2402	93.27	3.31	96.58	-	-	233	72	Vertical
4	2333.3025	29.79	3.02	32.81	54.00	21.19	233	72	Vertical
5	2386.7975	30.12	3.24	33.36	54.00	20.64	233	72	Vertical
6	2402	92.42	3.31	95.73	-	-	233	72	Vertical

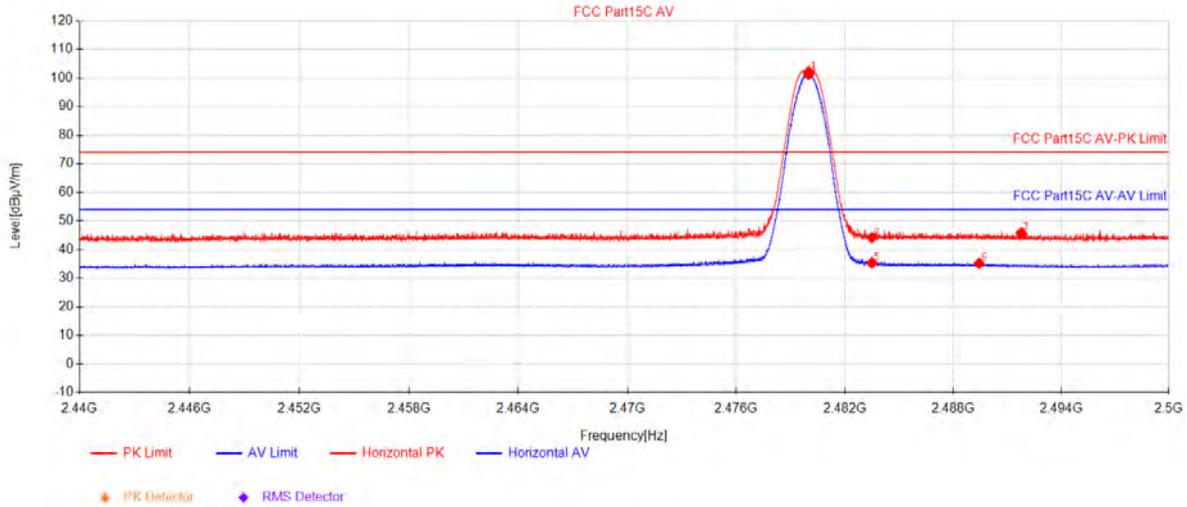


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BAND_EDGE_BLE1M Channel 39 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	98.18	3.88	102.06	-	-	106	327	Horizontal
2	2483.5	40.17	3.91	44.08	74.00	29.92	106	327	Horizontal
3	2491.7875	41.86	3.97	45.83	74.00	28.17	106	327	Horizontal
4	2480	97.26	3.88	101.14	-	-	106	327	Horizontal
5	2483.5	31.37	3.91	35.28	54.00	18.72	106	327	Horizontal
6	2489.4475	31.19	3.95	35.14	54.00	18.86	106	327	Horizontal

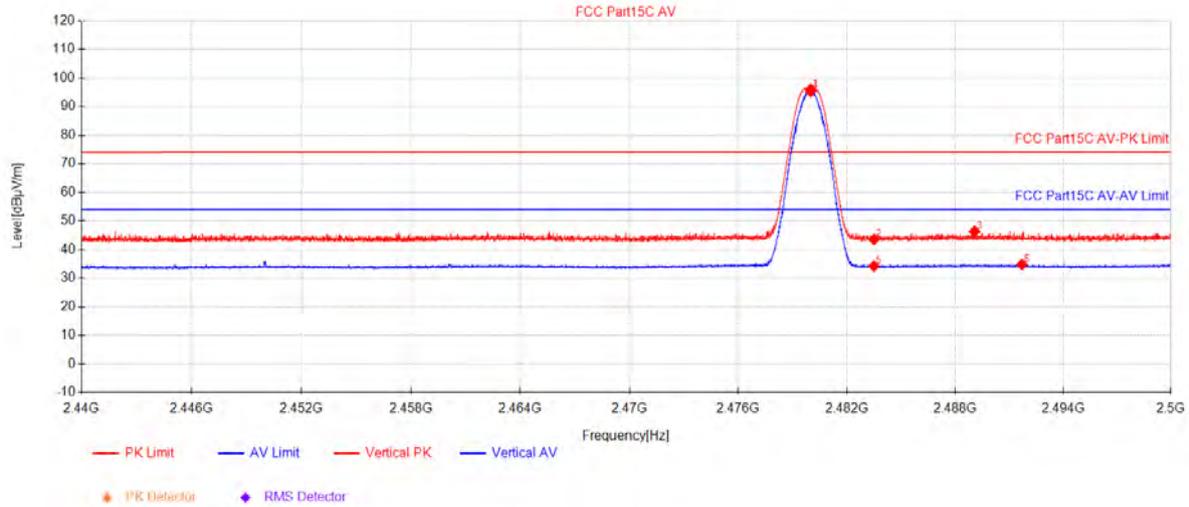


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BAND_EDGE_BLE1M Channel 39 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	92.06	3.88	95.94	-	-	321	236	Vertical
2	2483.5	39.56	3.91	43.47	74.00	30.53	321	236	Vertical
3	2489.08	42.35	3.95	46.30	74.00	27.70	321	236	Vertical
4	2480	91.31	3.88	95.19	-	-	321	236	Vertical
5	2483.5	30.29	3.91	34.20	54.00	19.80	321	236	Vertical
6	2491.7125	30.77	3.97	34.74	54.00	19.26	321	236	Vertical

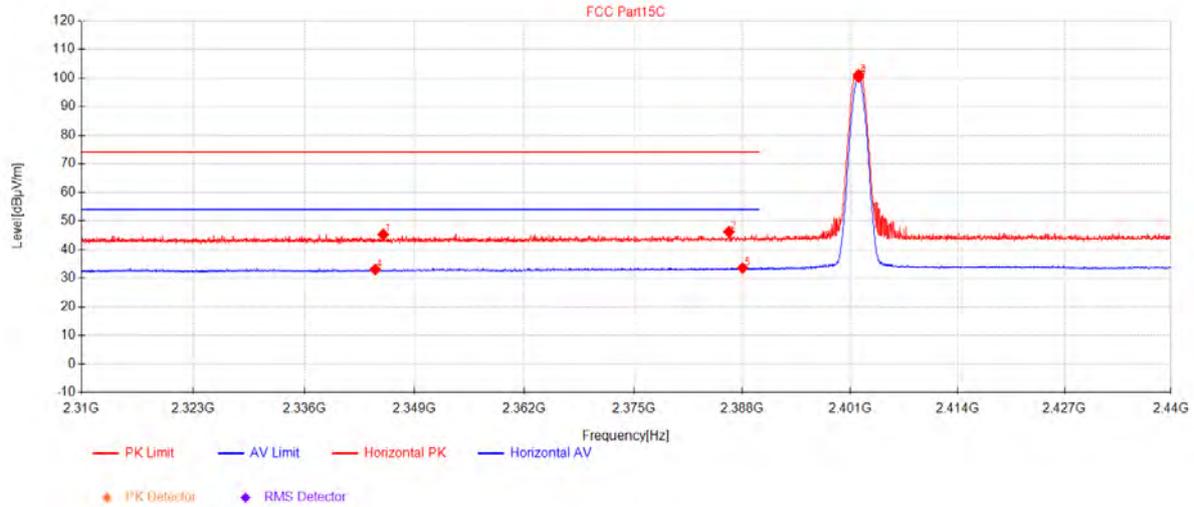


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BAND_EDGE_BLE2M Channel 00 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2345.295	42.18	3.07	45.25	74.00	28.75	186	124	Horizontal
2	2386.4075	42.94	3.24	46.18	74.00	27.82	186	124	Horizontal
3	2402	97.71	3.31	101.02	-	-	186	124	Horizontal
4	2344.3525	29.92	3.07	32.99	54.00	21.01	186	124	Horizontal
5	2388.0325	30.25	3.25	33.50	54.00	20.50	186	124	Horizontal
6	2402	96.86	3.31	100.17	-	-	186	124	Horizontal

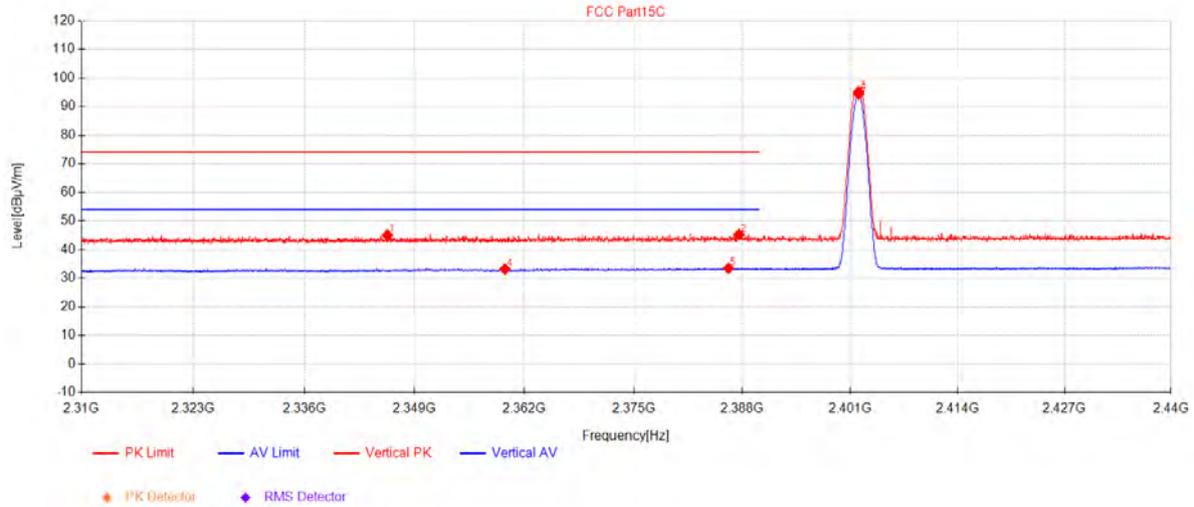


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BAND_EDGE_BLE2M Channel 00 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2345.7825	41.98	3.07	45.05	74.00	28.95	126	211	Vertical
2	2387.61	41.96	3.25	45.21	74.00	28.79	126	211	Vertical
3	2402	91.78	3.31	95.09	-	-	126	211	Vertical
4	2359.6925	30.03	3.13	33.16	54.00	20.84	126	211	Vertical
5	2386.3425	30.17	3.24	33.41	54.00	20.59	126	211	Vertical
6	2402	90.94	3.31	94.25	-	-	126	211	Vertical

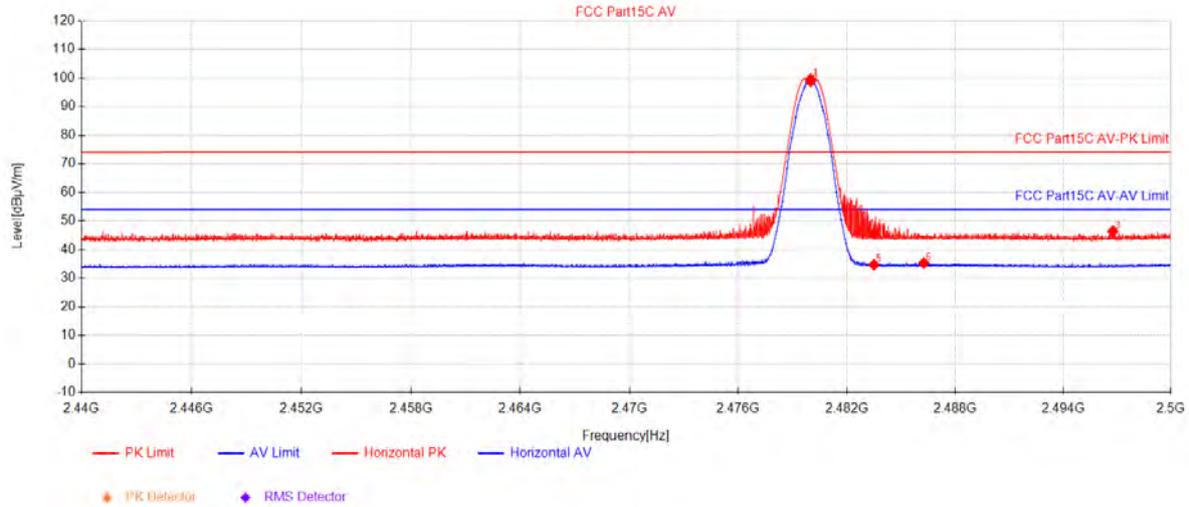


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BAND_EDGE_BLE2M Channel 39 ANT16



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	95.63	3.88	99.51	-	-	115	125	Horizontal
2	2483.5	41.63	3.91	45.54	74.00	28.46	115	125	Horizontal
3	2496.775	42.35	4.01	46.36	74.00	27.64	115	125	Horizontal
4	2480	94.97	3.88	98.85	-	-	115	125	Horizontal
5	2483.5	30.70	3.91	34.61	54.00	19.39	115	125	Horizontal
6	2486.2675	31.30	3.93	35.23	54.00	18.77	115	125	Horizontal

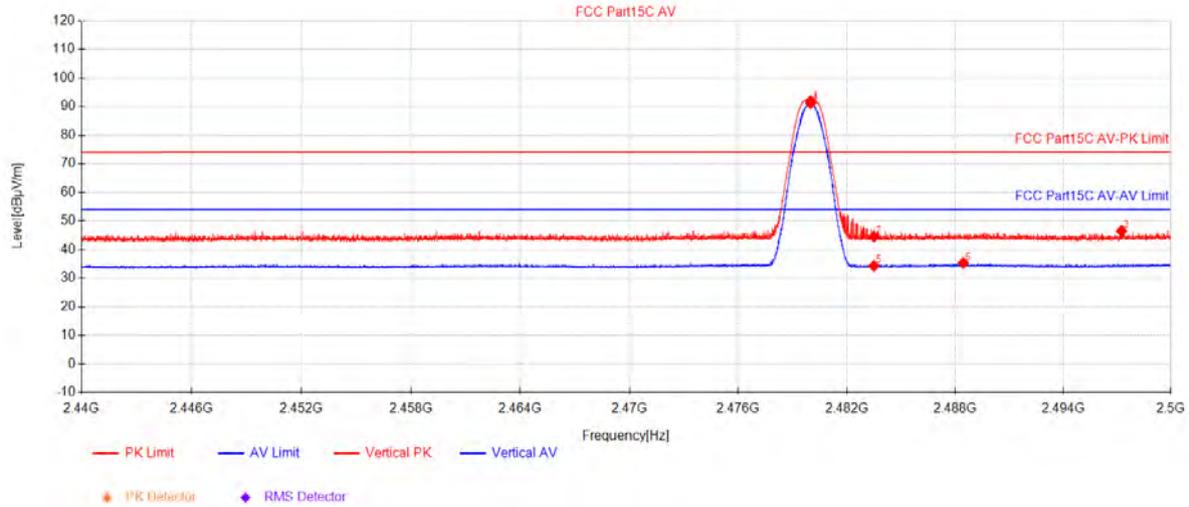


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BAND_EDGE_BLE2M Channel 39 ANT16



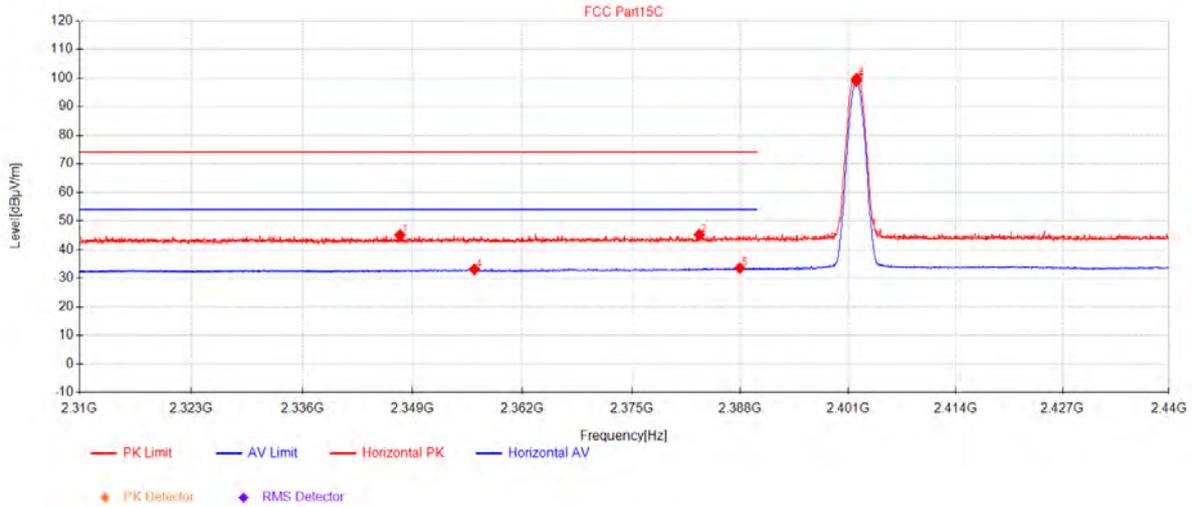
Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	87.95	3.88	91.83	-	-	316	188	Vertical
2	2483.5	40.51	3.91	44.42	74.00	29.58	316	188	Vertical
3	2497.255	42.46	4.01	46.47	74.00	27.53	316	188	Vertical
4	2480	87.20	3.88	91.08	-	-	316	188	Vertical
5	2483.5	30.33	3.91	34.24	54.00	19.76	316	188	Vertical
6	2488.45	31.30	3.95	35.25	54.00	18.75	316	188	Vertical



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BAND_EDGE_BLE2M Channel 00 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2347.505	41.99	3.08	45.07	74.00	28.93	142	325	Horizontal
2	2383.0925	41.94	3.23	45.17	74.00	28.83	142	325	Horizontal
3	2402	96.43	3.31	99.74	-	-	142	325	Horizontal
4	2356.3125	29.95	3.12	33.07	54.00	20.93	142	325	Horizontal
5	2387.935	30.24	3.25	33.49	54.00	20.51	142	325	Horizontal
6	2402	95.57	3.31	98.88	-	-	142	325	Horizontal

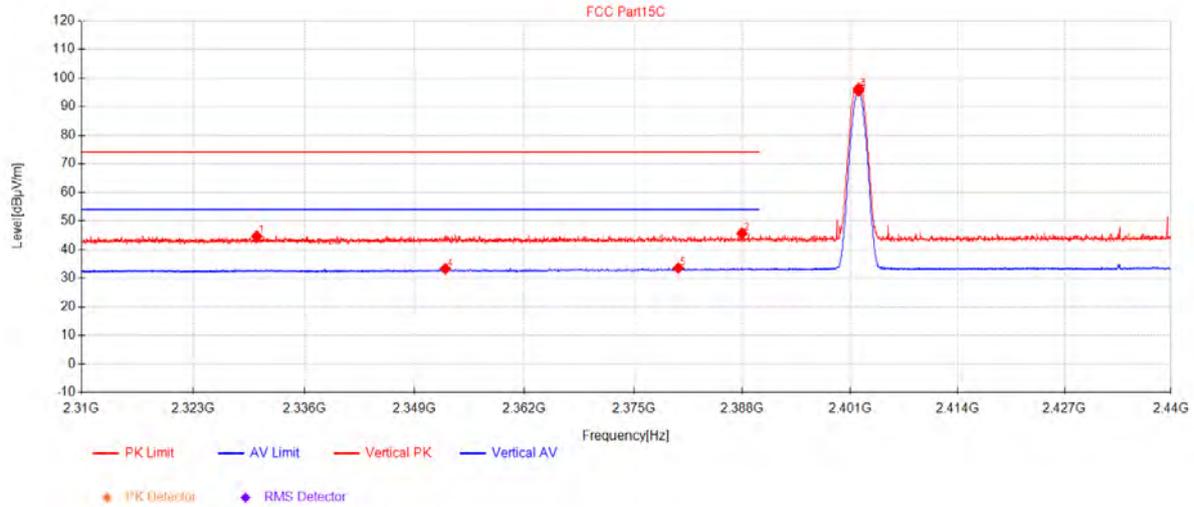


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BAND_EDGE_BLE2M Channel 00 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2330.4425	41.66	3.01	44.67	74.00	29.33	332	248	Vertical
2	2387.9675	42.39	3.25	45.64	74.00	28.36	332	248	Vertical
3	2402	92.87	3.31	96.18	-	-	332	248	Vertical
4	2352.64	30.18	3.10	33.28	54.00	20.72	332	248	Vertical
5	2380.33	30.26	3.22	33.48	54.00	20.52	332	248	Vertical
6	2402	92.03	3.31	95.34	-	-	332	248	Vertical

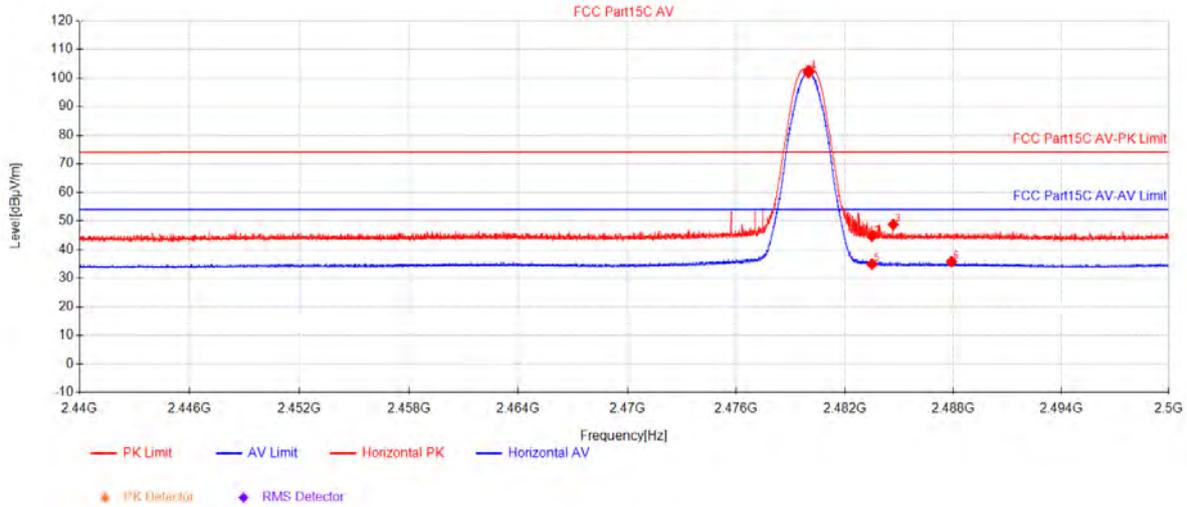


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BAND_EDGE_BLE2M Channel 39 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	98.63	3.88	102.51	-	-	116	314	Horizontal
2	2483.5	40.71	3.91	44.62	74.00	29.38	116	314	Horizontal
3	2484.685	44.83	3.92	48.75	74.00	25.25	116	314	Horizontal
4	2480	97.94	3.88	101.82	-	-	116	314	Horizontal
5	2483.5	30.98	3.91	34.89	54.00	19.11	116	314	Horizontal
6	2487.91	31.82	3.94	35.76	54.00	18.24	116	314	Horizontal

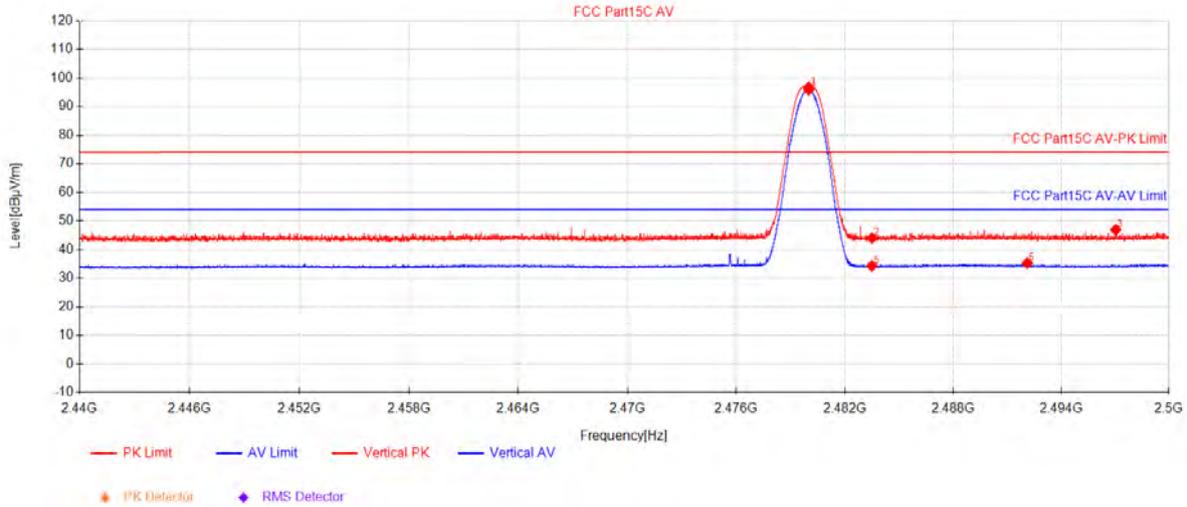


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BAND_EDGE_BLE2M Channel 39 ANT18



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	92.72	3.88	96.60	-	-	342	246	Vertical
2	2483.5	40.07	3.91	43.98	74.00	30.02	342	246	Vertical
3	2497.0375	42.87	4.01	46.88	74.00	27.12	342	246	Vertical
4	2480	91.91	3.88	95.79	-	-	342	246	Vertical
5	2483.5	30.32	3.91	34.23	54.00	19.77	342	246	Vertical
6	2492.1175	31.26	3.97	35.23	54.00	18.77	342	246	Vertical

The End



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