

Report No.: SEWM2207000122RG03

Rev.: 01

Page: 1 of 87

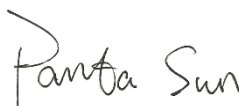
TEST REPORT

Application No.: SEWM2207000122RG
Applicant: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer: Lenovo PC HK Limited
Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
EUT Description: Portable Tablet Computer
Model No.: TB350XU
Trade Mark: Lenovo
FCC ID: O57TB350XU
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/07/13
Date of Test: 2022/07/20 to 2022/08/10
Date of Issue: 2022/08/15

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:




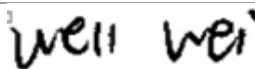
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/08/15		Original

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



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

3.2 Test Location

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

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:	Portable Tablet Computer	
Model No.:	TB350XU	
Trade Mark:	Lenovo	
Hardware Version:	TB350XU	
Software Version:	TB350XU_RF01_220808	
IMEI:	RF Conducted	869309060013013 869309060013078
	RSE & AC power line	869309060013369 869309060011819
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.	
Bluetooth version:	Bluetooth V5.2	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type*:	<input checked="" type="checkbox"/> Provided by client	
	1M PHY	2M PHY
Antenna Type:	PIFA Antenna	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	-1.2dBi(Ant4)	
RF Cable:	1.0dB	
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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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 Wireless Laboratory

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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	3.86
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)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -1.2dBi(Ant4). (Provided by client)*.</p> <p><i>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.</i></p> <p><i>Remark:</i> As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range(MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> 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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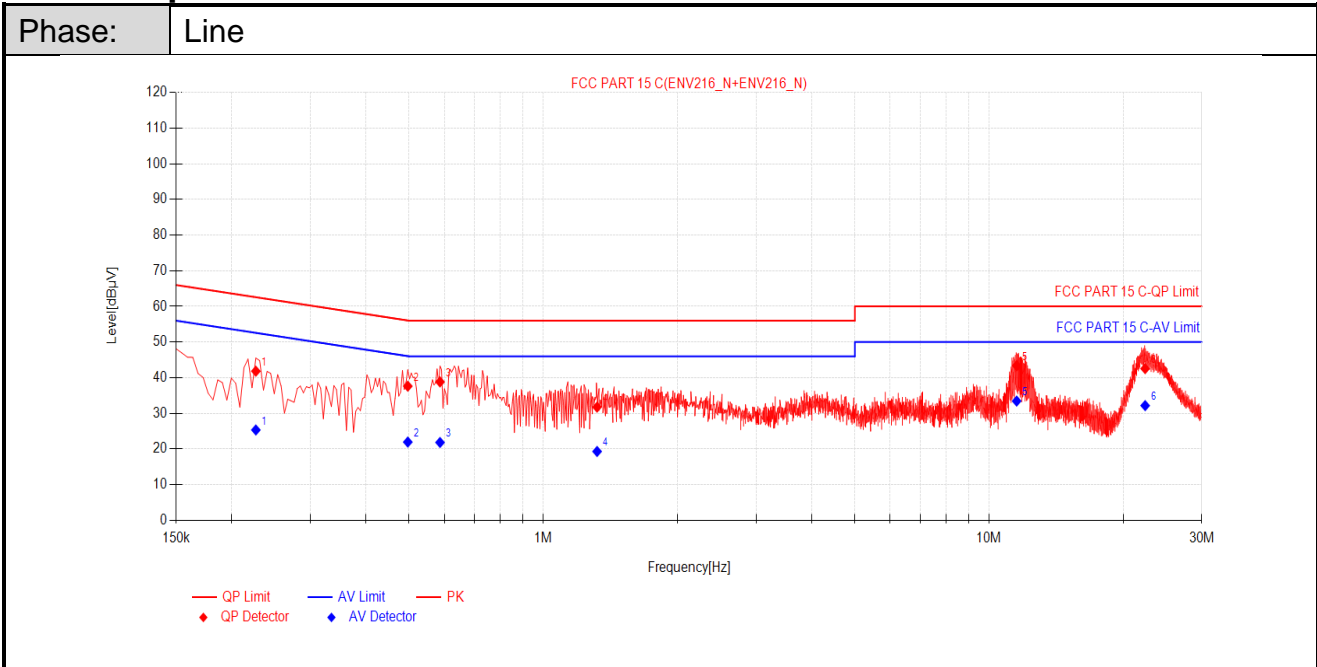
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Measurement Data

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.

For Sample #1:



Final 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	0.2265	10.70	31.13	41.83	62.58	20.75	14.64	25.34	52.58	27.24	PASS
2	0.4965	10.81	26.82	37.63	56.06	18.43	11.15	21.96	46.06	24.10	PASS
3	0.5865	10.70	28.12	38.82	56.00	17.18	11.14	21.84	46.00	24.16	PASS
4	1.3200	10.78	20.97	31.75	56.00	24.25	8.53	19.31	46.00	26.69	PASS
5	11.5350	10.65	32.73	43.38	60.00	16.62	22.80	33.45	50.00	16.55	PASS
6	22.4025	10.45	32.10	42.55	60.00	17.45	21.72	32.17	50.00	17.83	PASS

Remark:

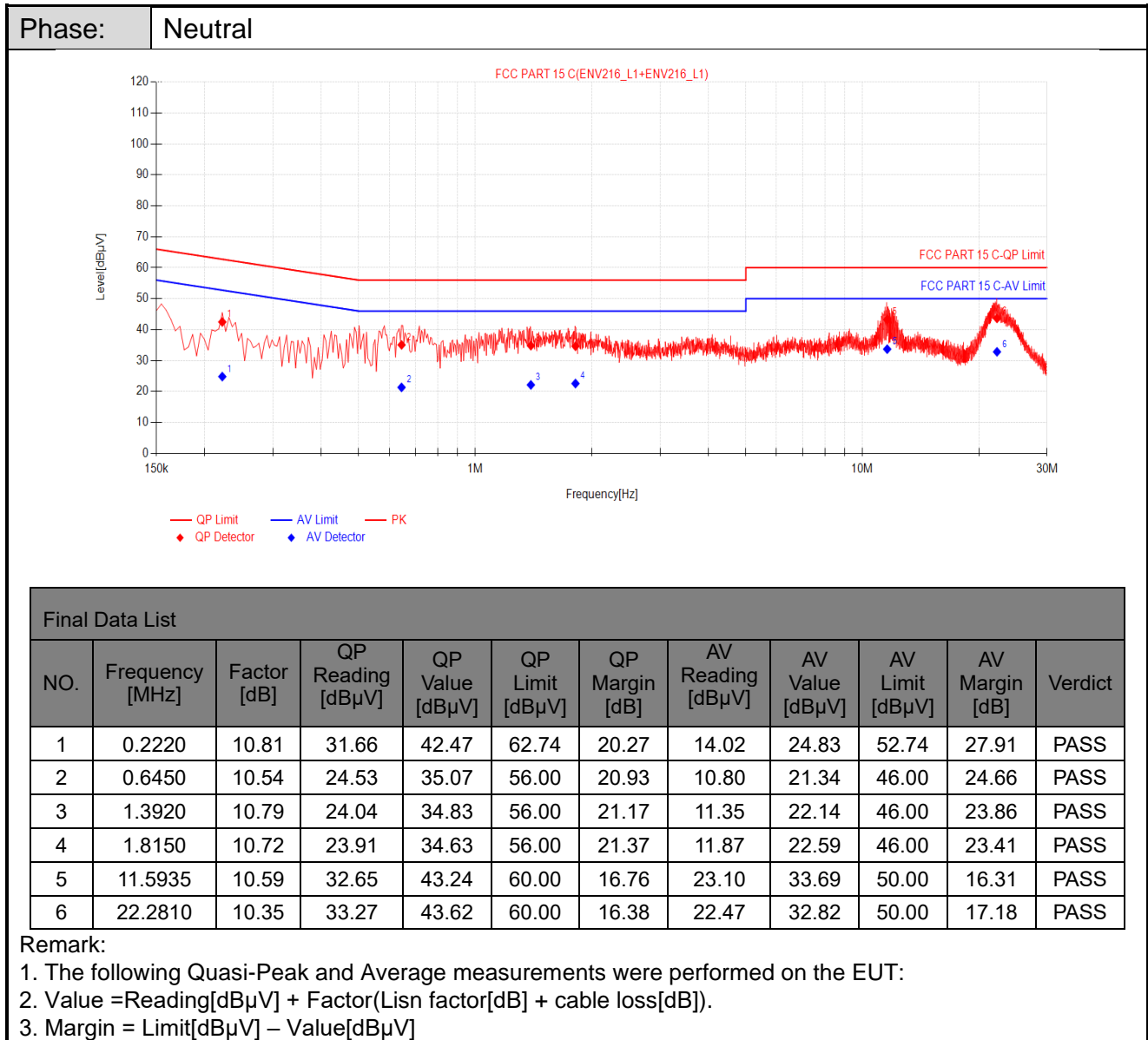
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading [dBµV] + Factor (Lisn factor [dB] + cable loss [dB]).
- Margin = Limit [dBµV] – Value [dBµV]



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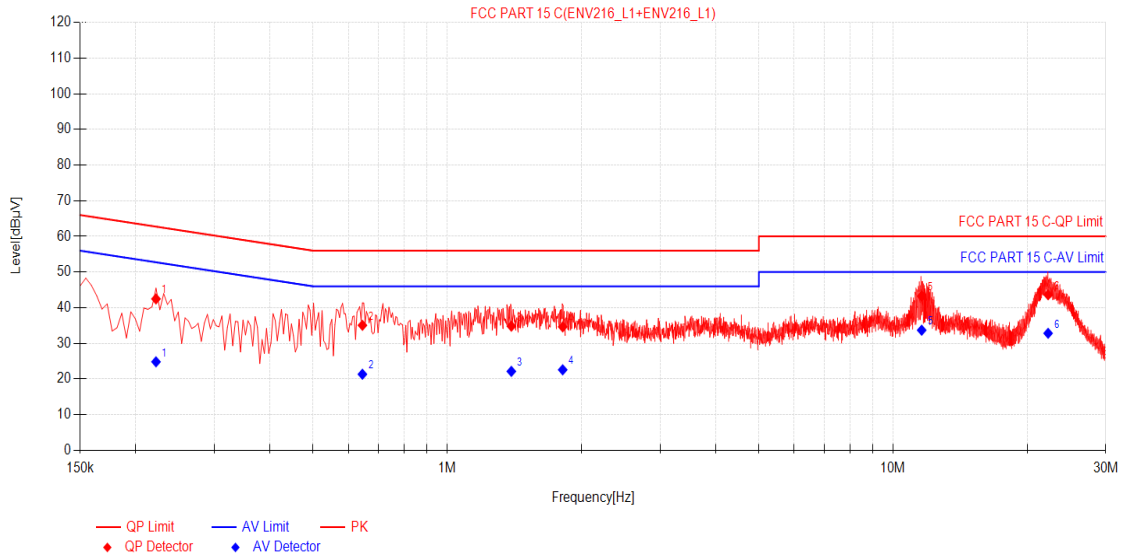
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For Sample #2:

Phase:	Line
--------	------



Final 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	0.2220	10.81	31.66	42.47	62.74	20.27	14.02	24.83	52.74	27.91	PASS
2	0.6450	10.54	24.53	35.07	56.00	20.93	10.80	21.34	46.00	24.66	PASS
3	1.3920	10.79	24.04	34.83	56.00	21.17	11.35	22.14	46.00	23.86	PASS
4	1.8150	10.72	23.91	34.63	56.00	21.37	11.87	22.59	46.00	23.41	PASS
5	11.5935	10.59	32.65	43.24	60.00	16.76	23.10	33.69	50.00	16.31	PASS
6	22.2810	10.35	33.27	43.62	60.00	16.38	22.47	32.82	50.00	17.18	PASS

Remark:

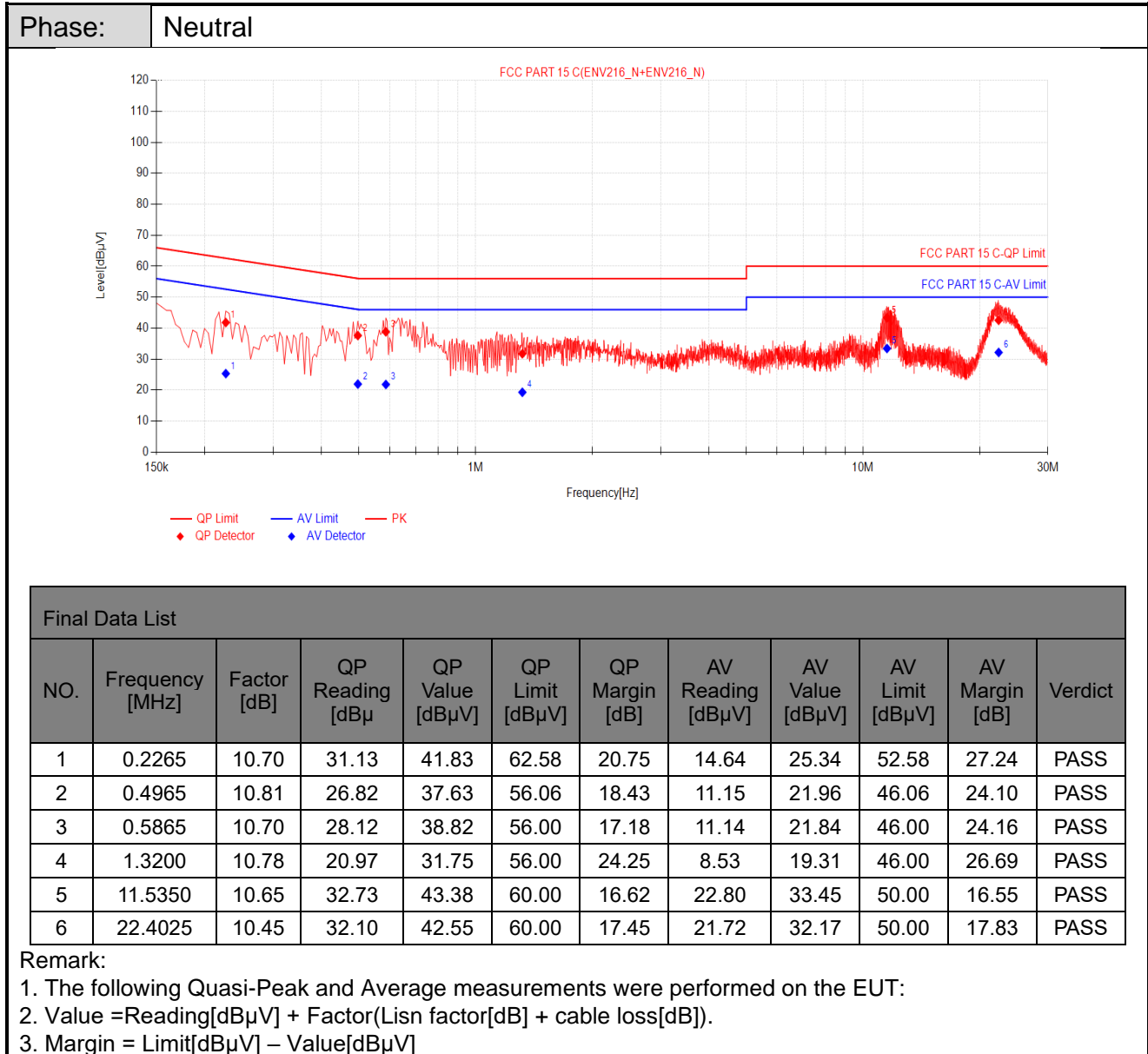
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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Report No.: SEWM2207000122RG03

Rev.: 01

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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: 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 11.11
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	



4.8 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)				
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

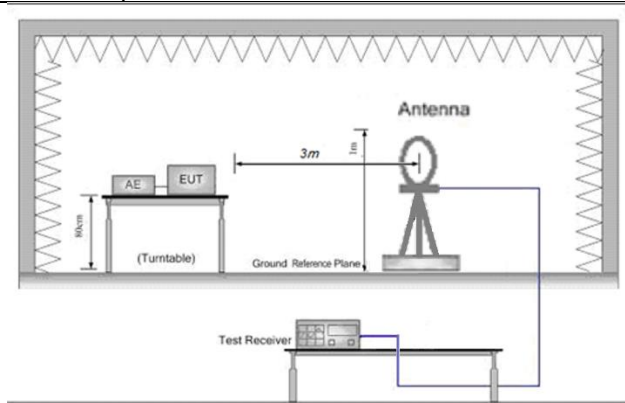


Figure 1. Below 30MHz

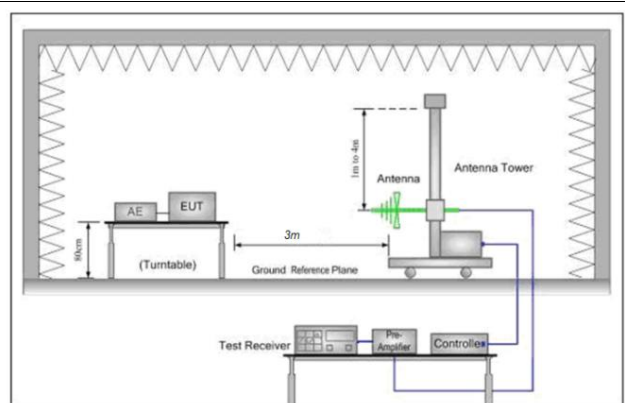


Figure 2. 30MHz to 1GHz



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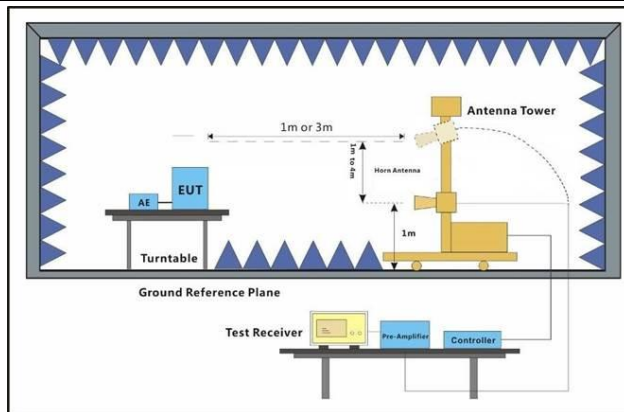


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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 $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
<p>Test Configuration:</p>	<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, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

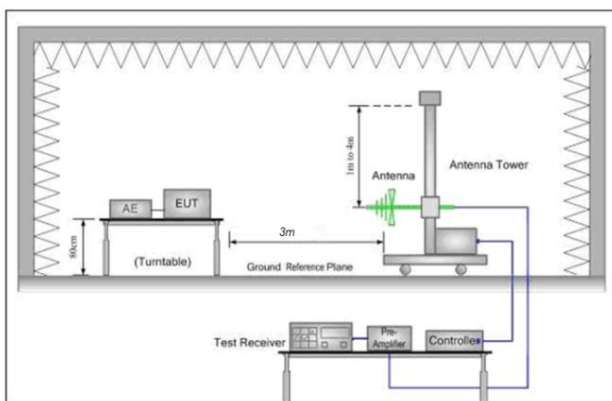


Figure 1. 30MHz to 1GHz

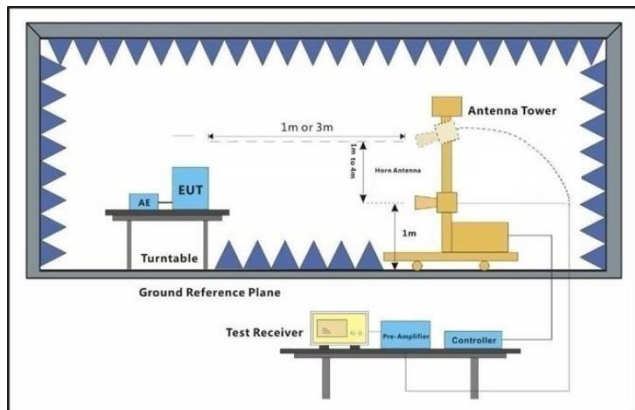


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted
-----------------	--



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	<p>bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 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:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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

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

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					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
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	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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RSE Test System					
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-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.0	SUWI-02-09-06	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant4	2402	0.70	2401.65	2402.35	≥0.5	PASS
		2440	0.70	2439.65	2440.35	≥0.5	PASS
		2480	0.70	2479.64	2480.35	≥0.5	PASS
BLE_2M	Ant4	2402	1.19	2401.41	2402.60	≥0.5	PASS
		2440	1.19	2439.40	2440.60	≥0.5	PASS
		2480	1.19	2479.40	2480.60	≥0.5	PASS



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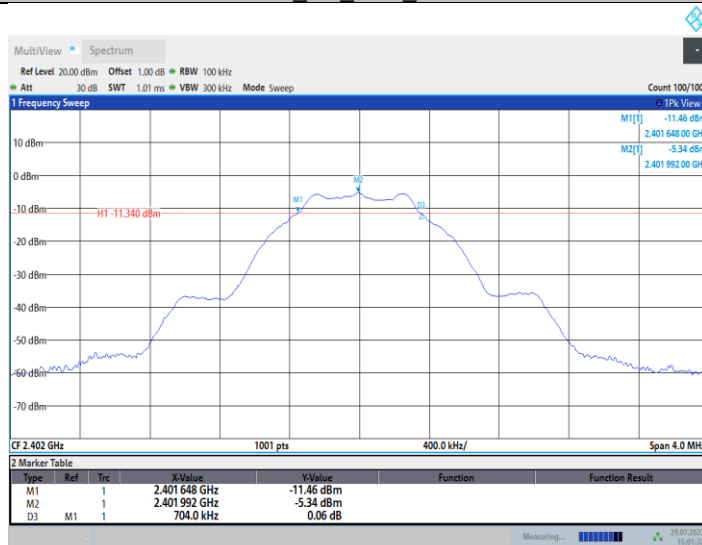
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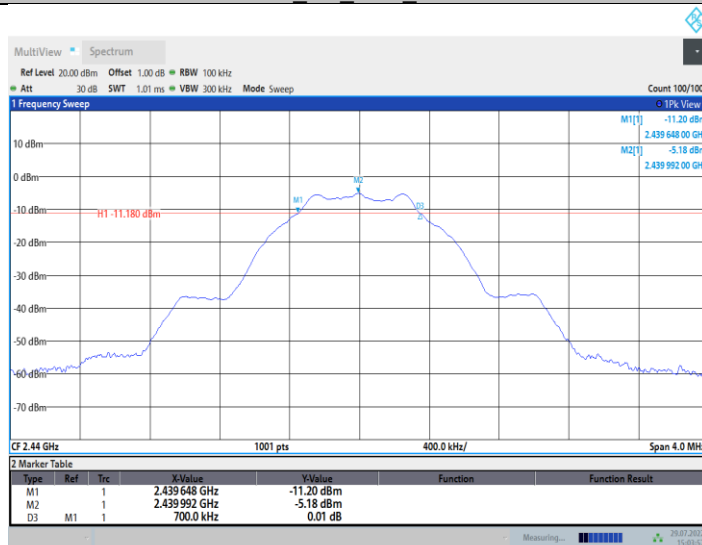
Test Graphs

BLE_1M_Ant4_2402



15:01:32 29.07.2022

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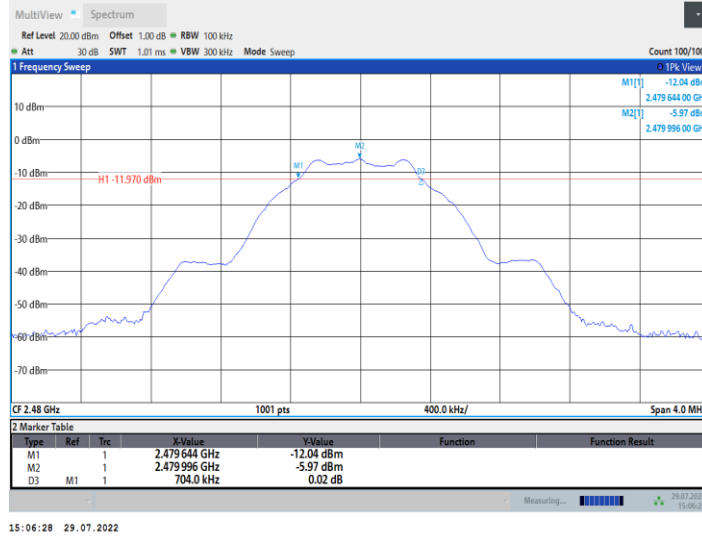


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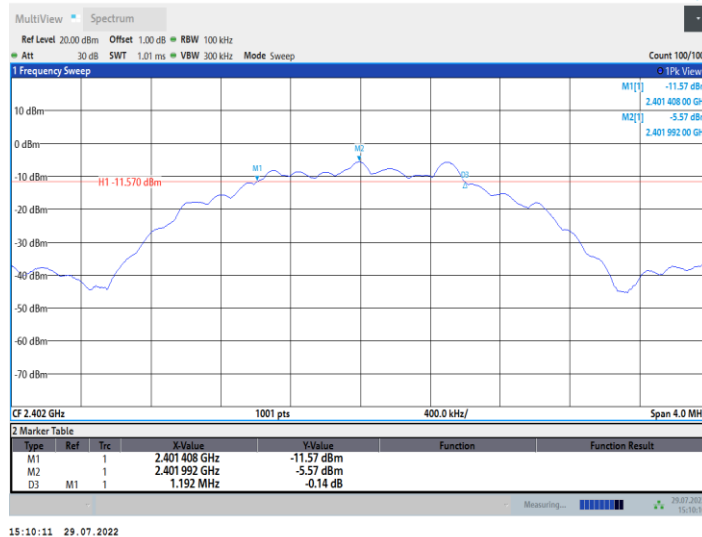


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BLE_1M_Ant4_2480



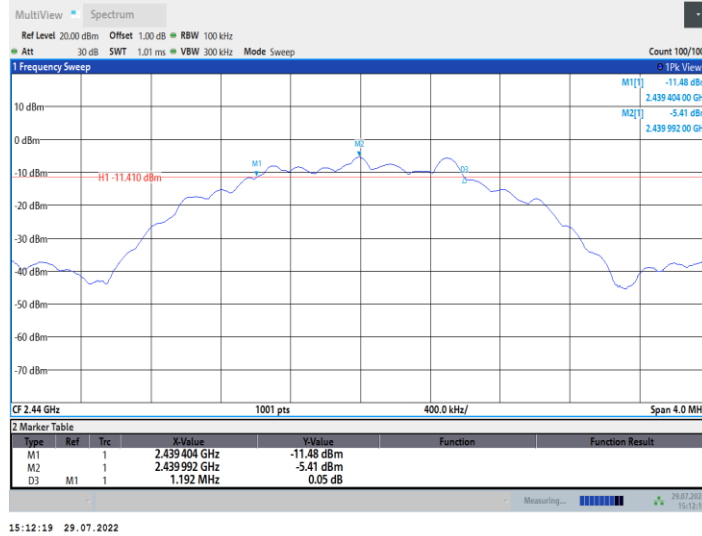
BLE_2M_Ant4_2402



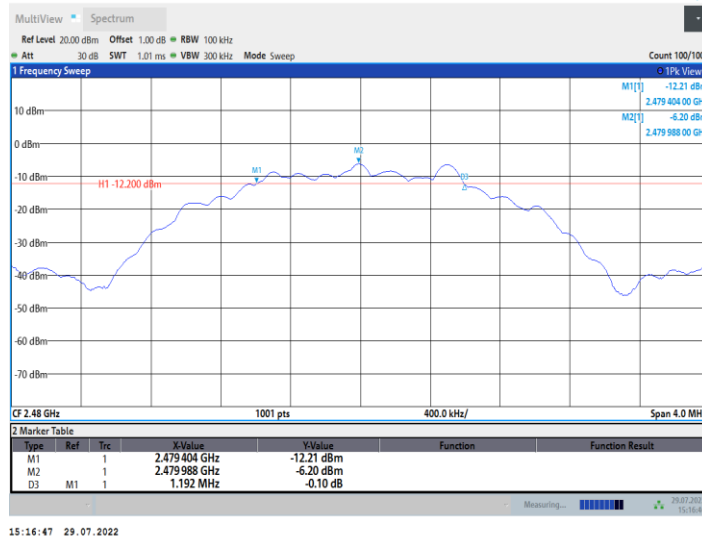
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BLE_2M_Ant4_2440



BLE_2M_Ant4_2480



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
BLE_1M	Ant4	2402	1.036	2401.490	2402.526	Reporting only
		2440	1.036	2439.489	2440.525	
		2480	1.037	2479.488	2480.525	
BLE_2M	Ant4	2402	2.057	2400.991	2403.047	
		2440	2.056	2438.987	2441.043	
		2480	2.058	2478.984	2481.042	



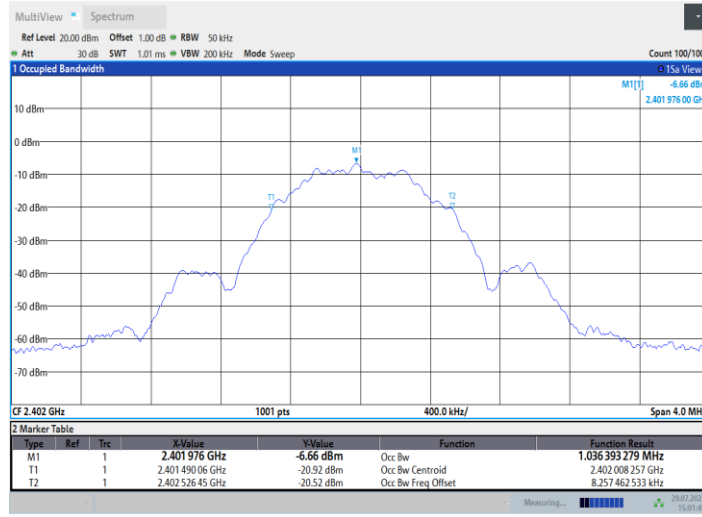
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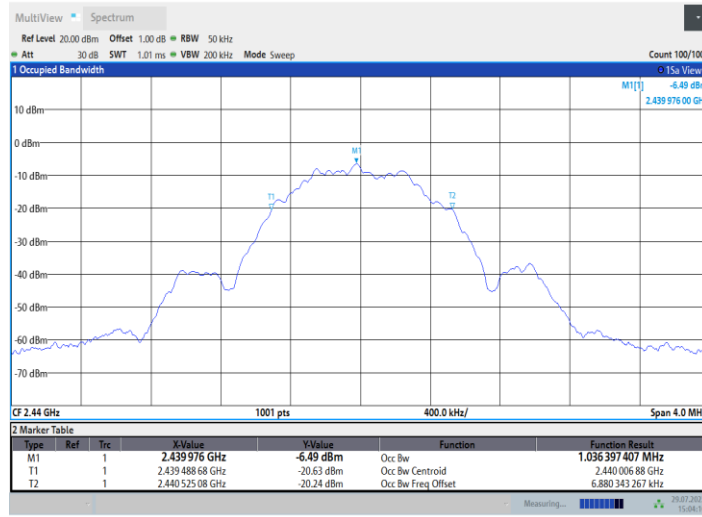
Test Graphs

BLE_1M_Ant4_2402



15:01:45 29.07.2022

BLE_1M_Ant4_2440



15:04:11 29.07.2022

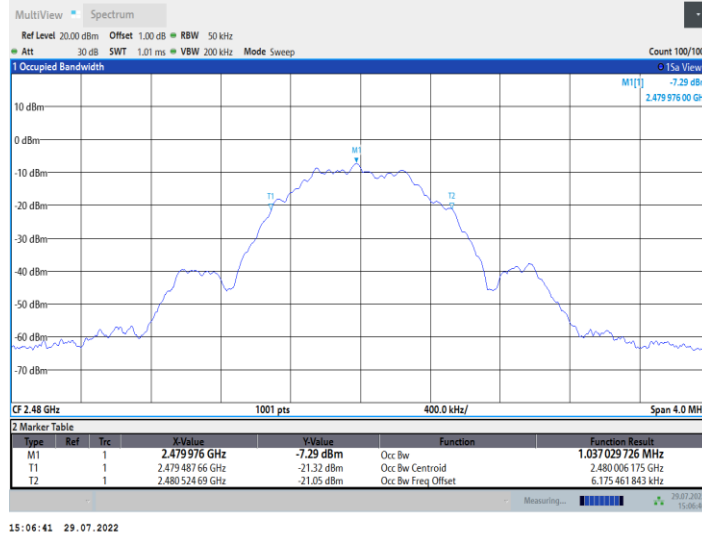


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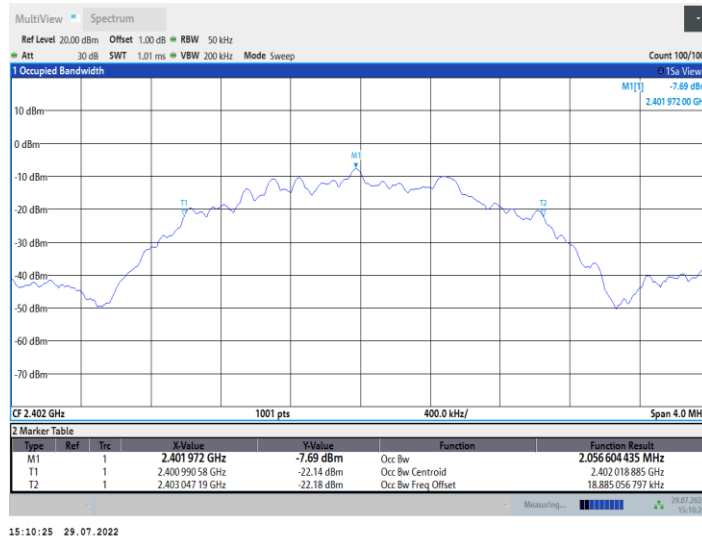
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BLE_1M_Ant4_2480



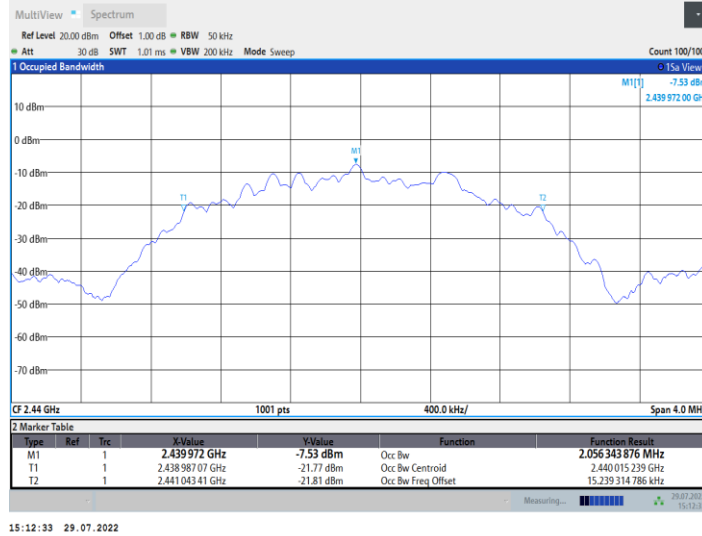
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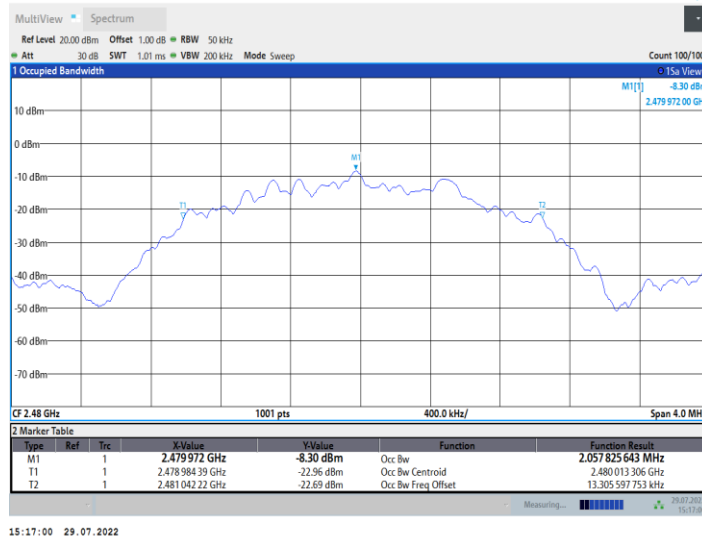
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BLE_2M_Ant4_2440



BLE_2M_Ant4_2480



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Report No.: SEWM2207000122RG03

Rev.: 01

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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	Ant4	2402	-4.46	≤30	PASS
		2440	-4.45	≤30	PASS
		2480	-5.31	≤30	PASS
BLE_2M	Ant4	2402	-4.44	≤30	PASS
		2440	-4.41	≤30	PASS
		2480	-5.29	≤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	Ant4	2402	-19.95	≤8.00	PASS
		2440	-19.77	≤8.00	PASS
		2480	-20.52	≤8.00	PASS
BLE_2M	Ant4	2402	-23.52	≤8.00	PASS
		2440	-23.36	≤8.00	PASS
		2480	-24.12	≤8.00	PASS



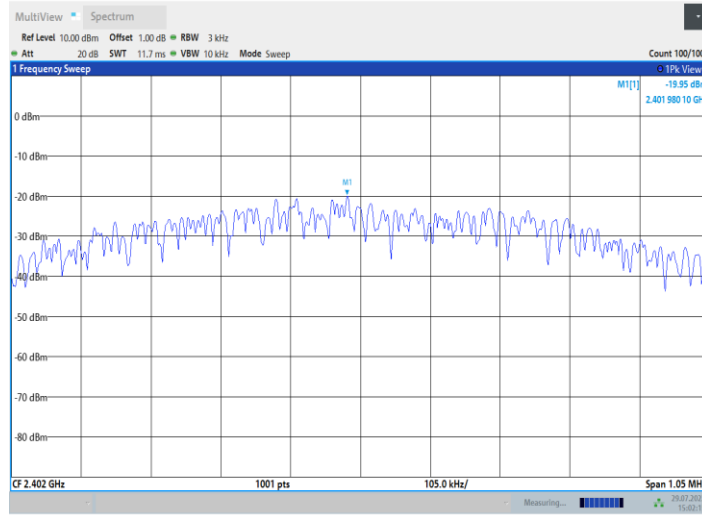
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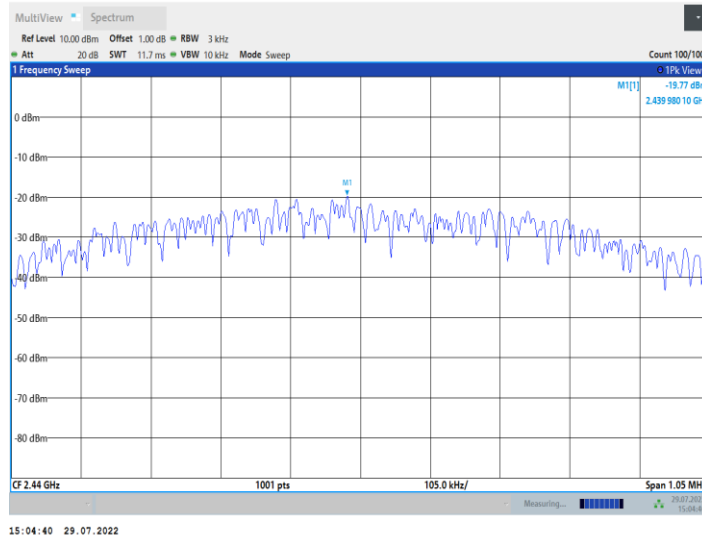
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Test Graphs

BLE_1M_Ant4_2402

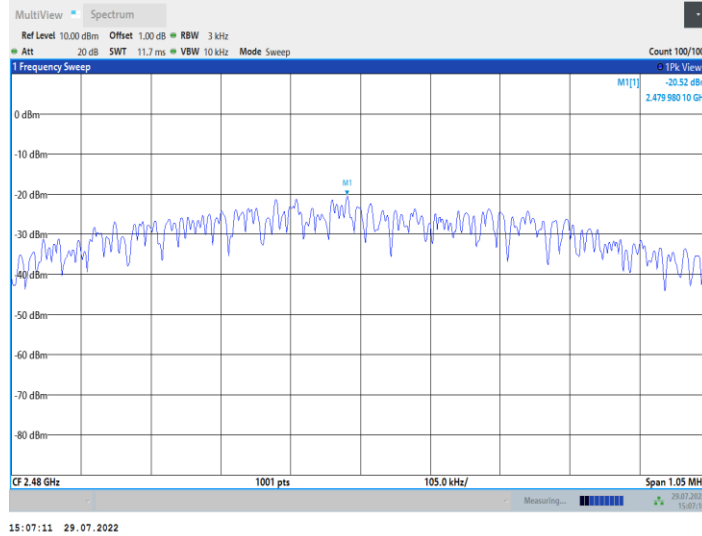


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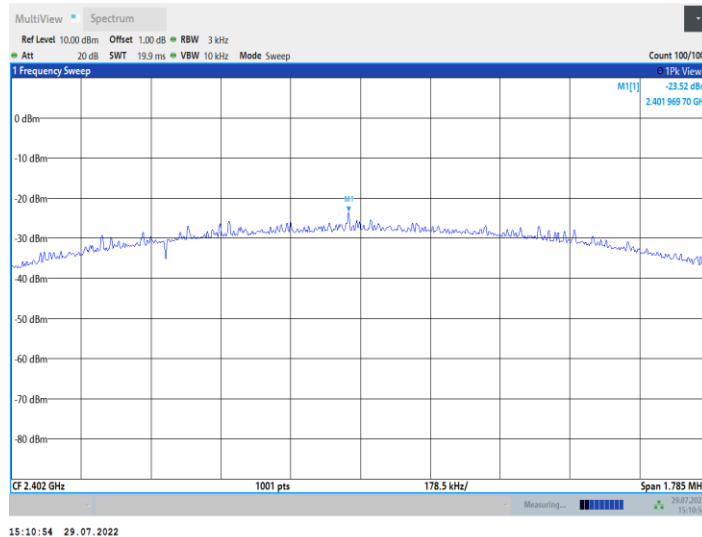


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BLE_1M_Ant4_2480



BLE_2M_Ant4_2402

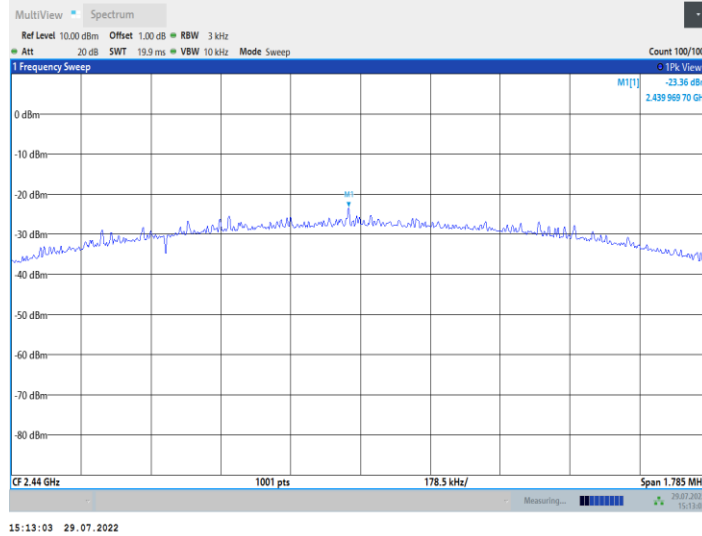


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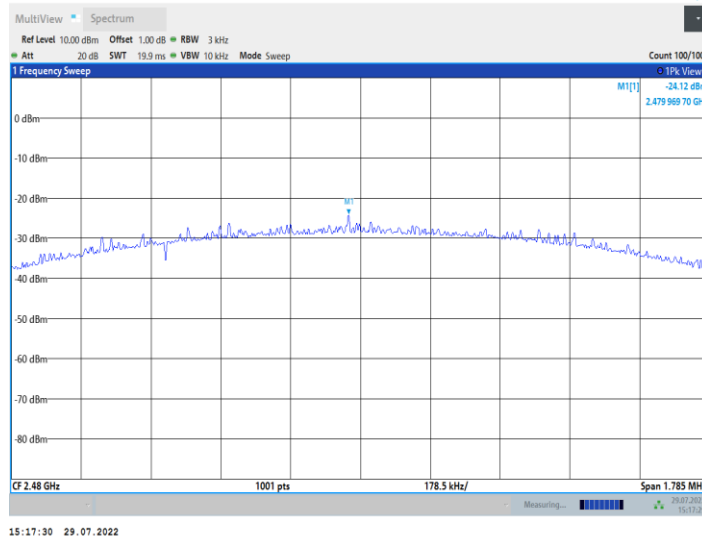
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BLE_2M_Ant4_2440



BLE_2M_Ant4_2480

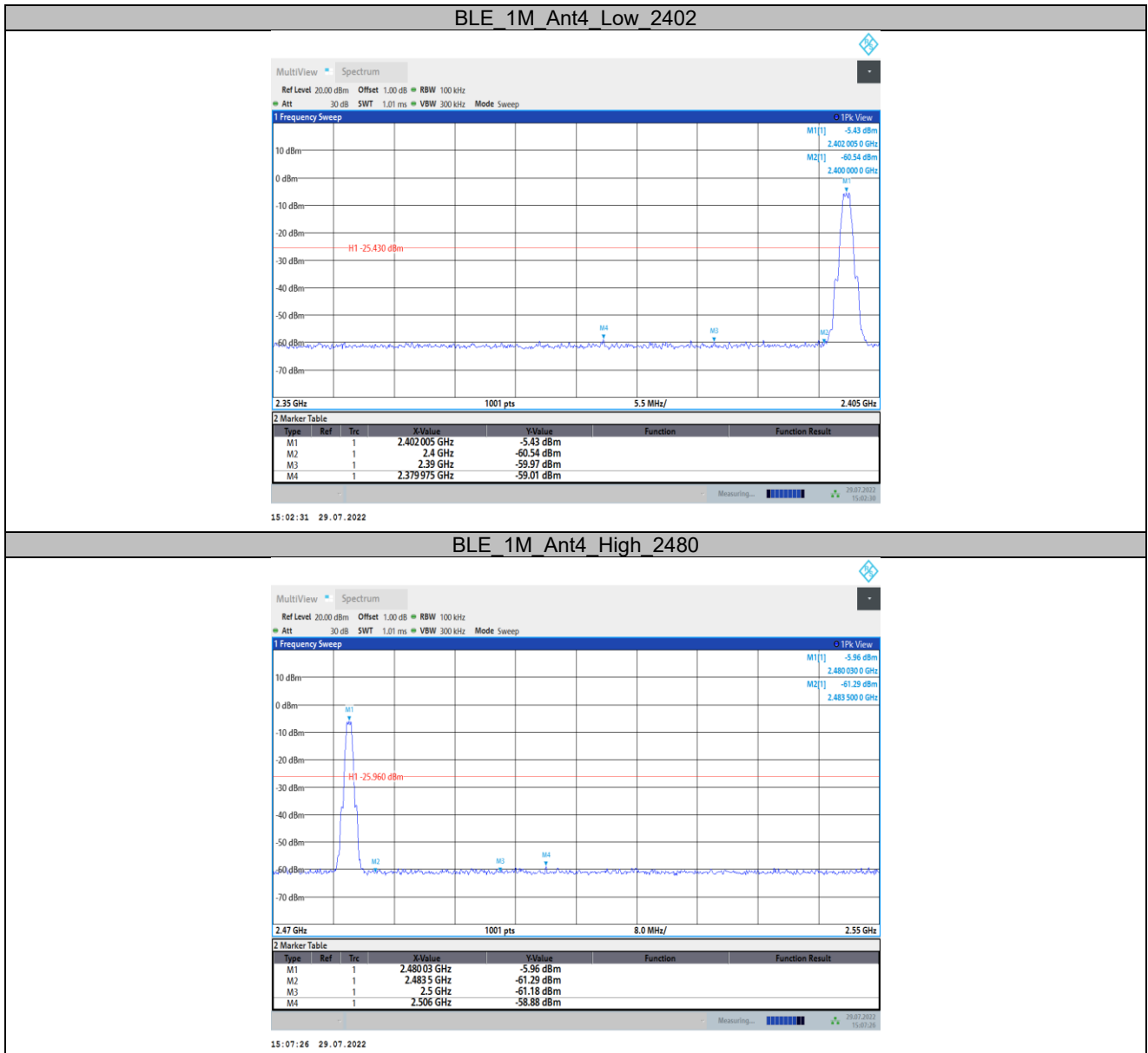


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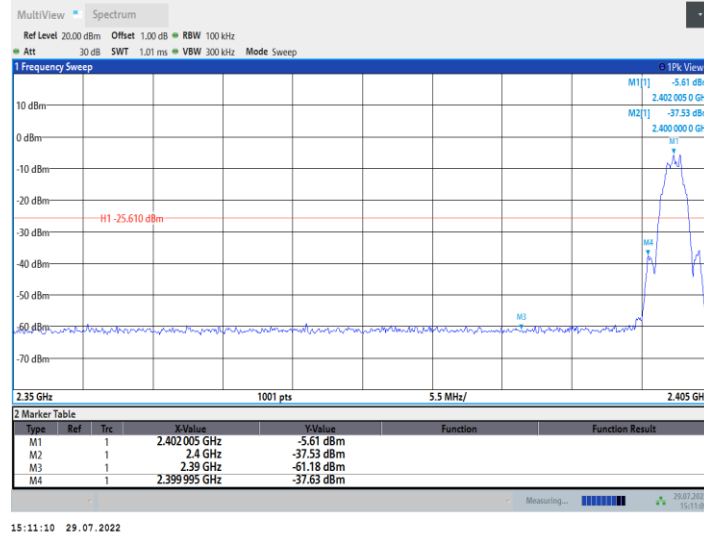
Band edge measurements Test Graphs



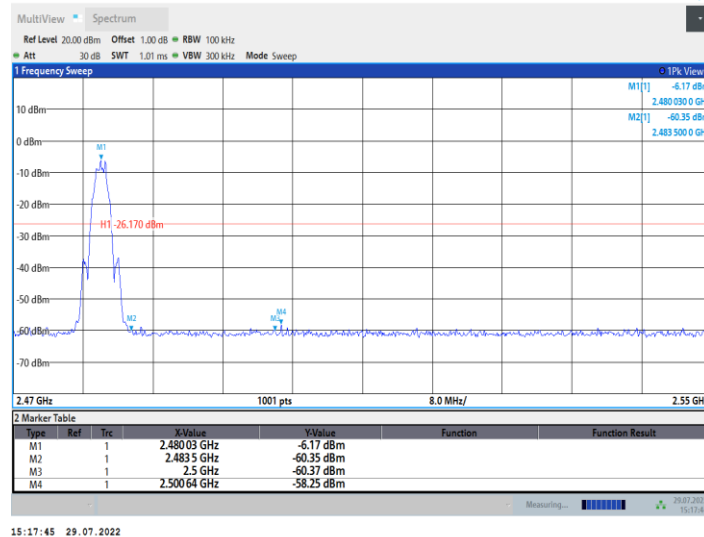
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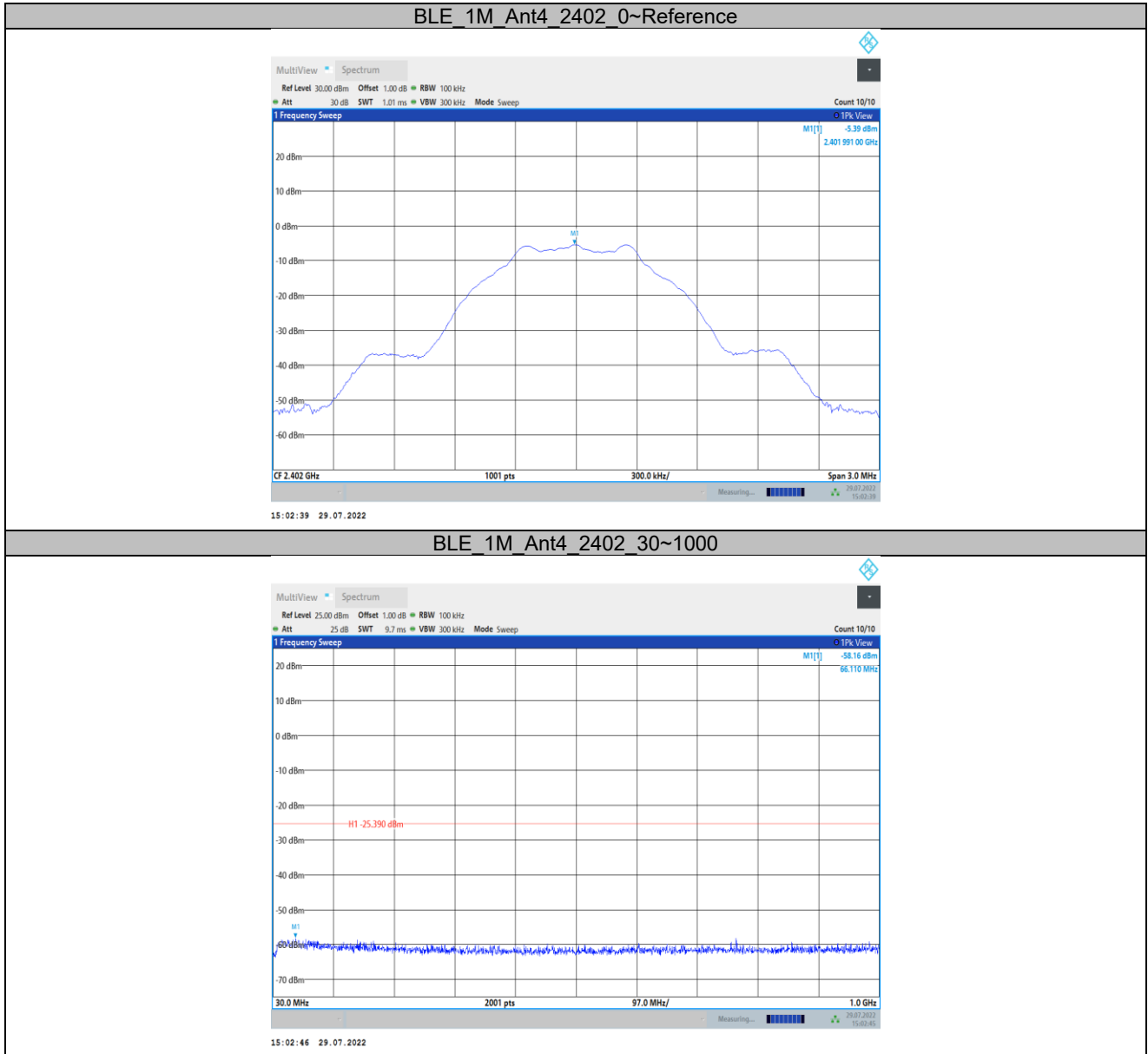
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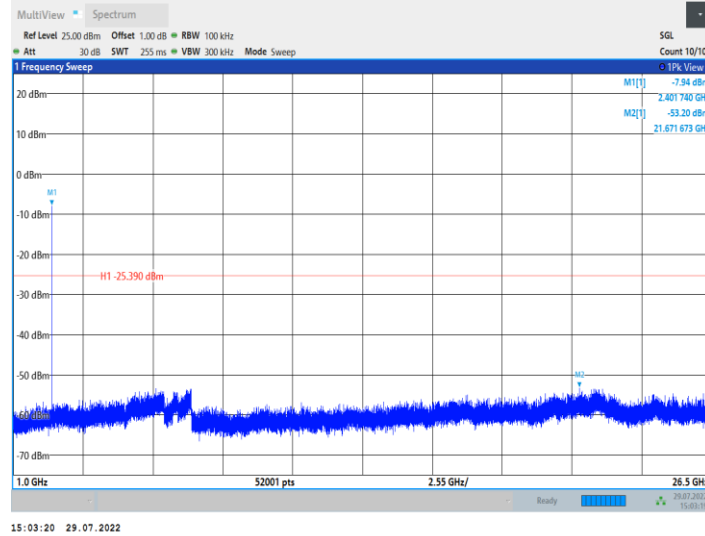
Conducted Spurious Emission Test Graphs



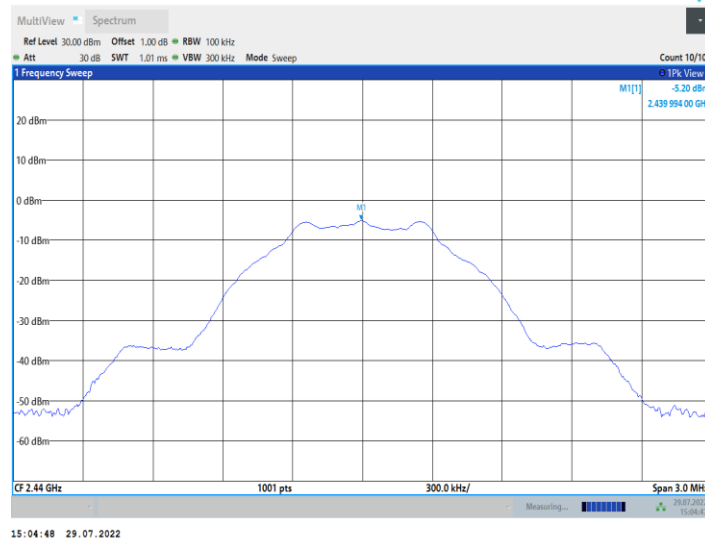
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BLE 1M Ant4 2402_1000~26500



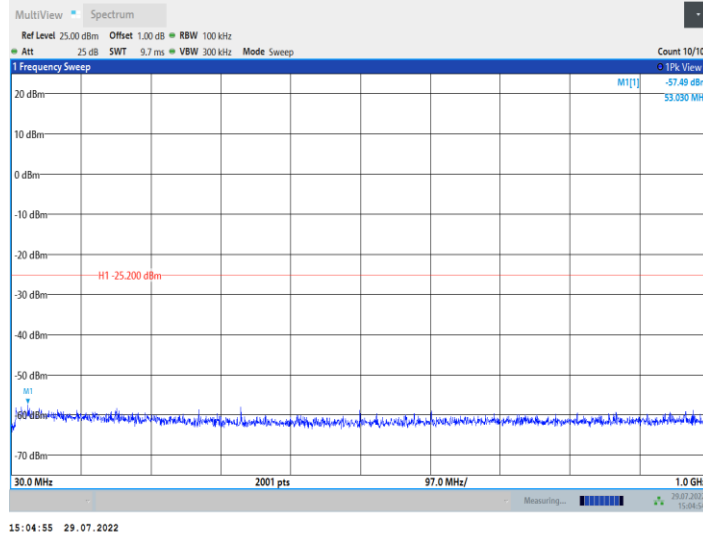
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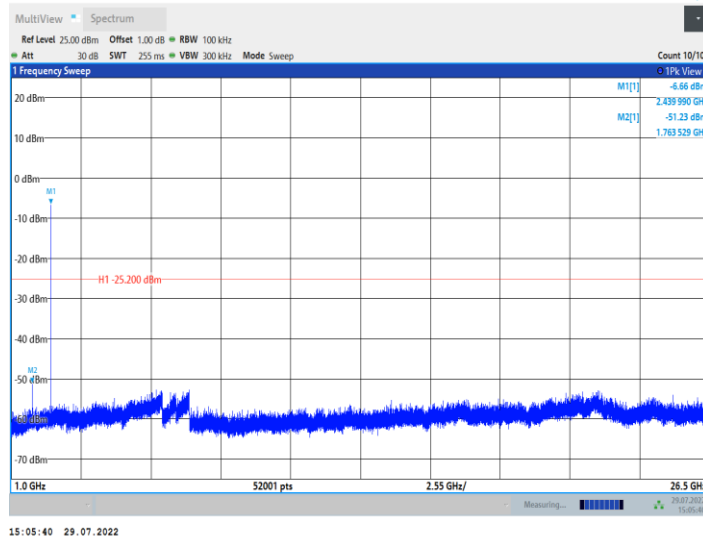
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BLE_1M_Ant4_2440_30~1000



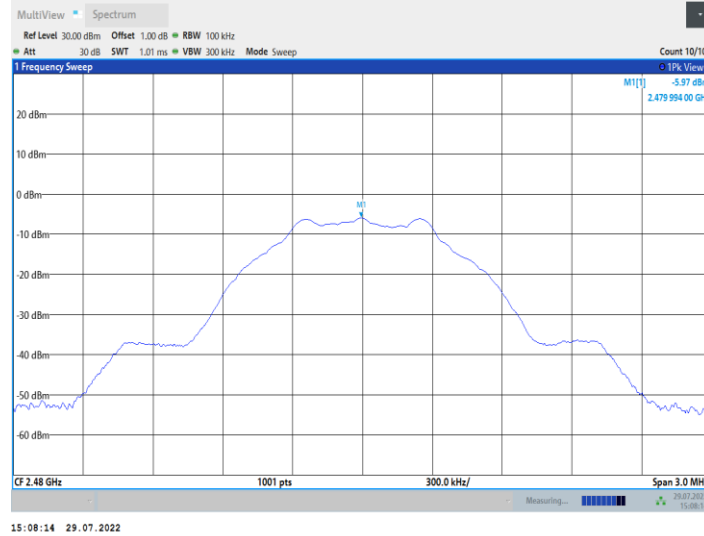
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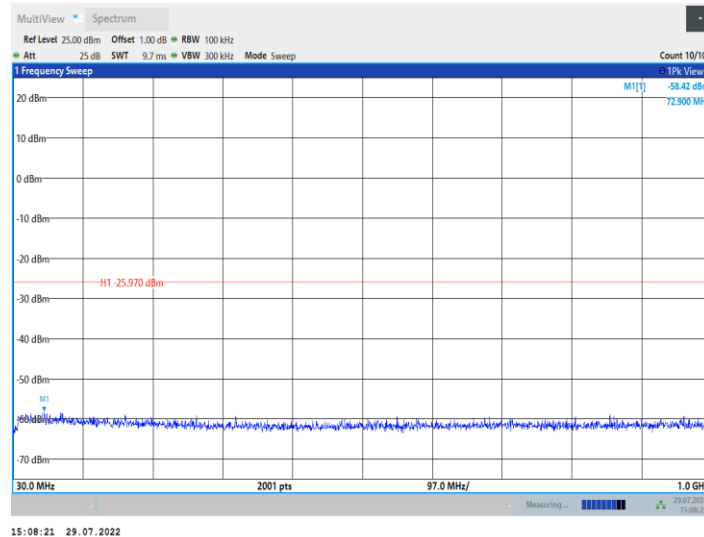
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BLE 1M Ant4 2480 30~1000



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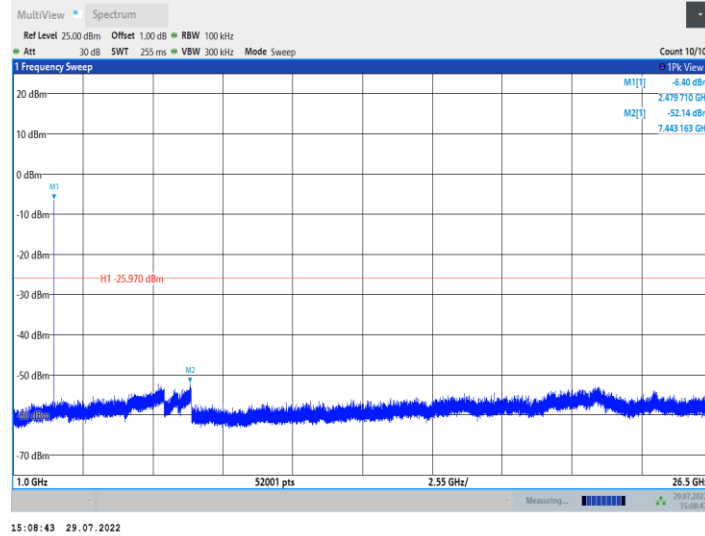
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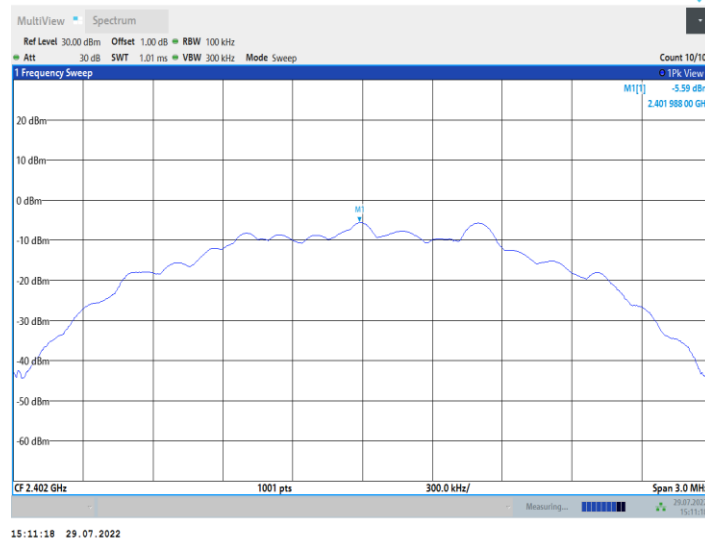
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BLE 1M Ant4 2480 1000~26500



BLE 2M Ant4 2402 0~Reference



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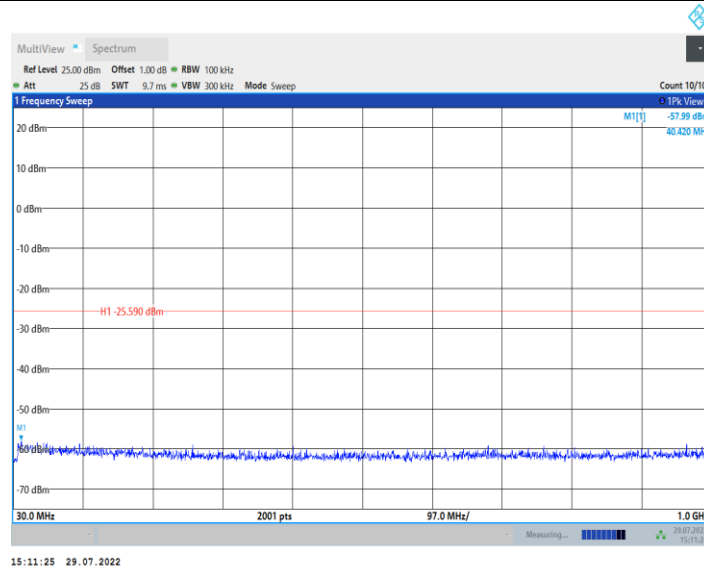
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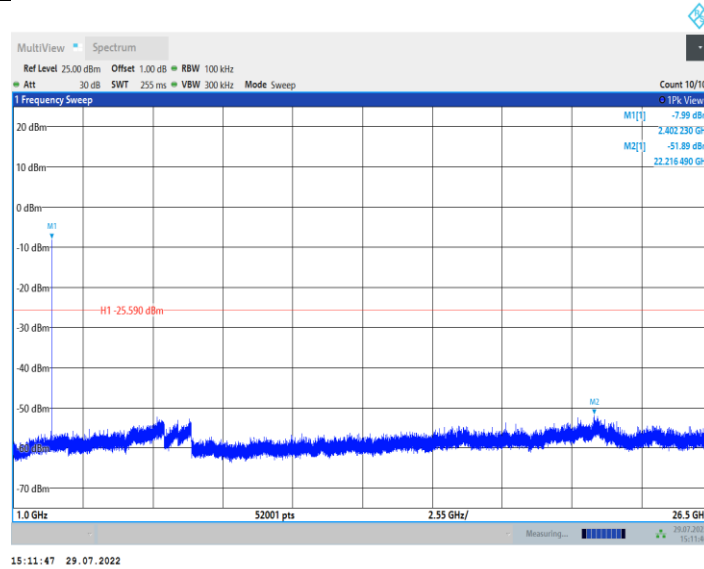
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BLE_2M_Ant4_2402_30~1000



BLE_2M_Ant4_2402_1000~26500

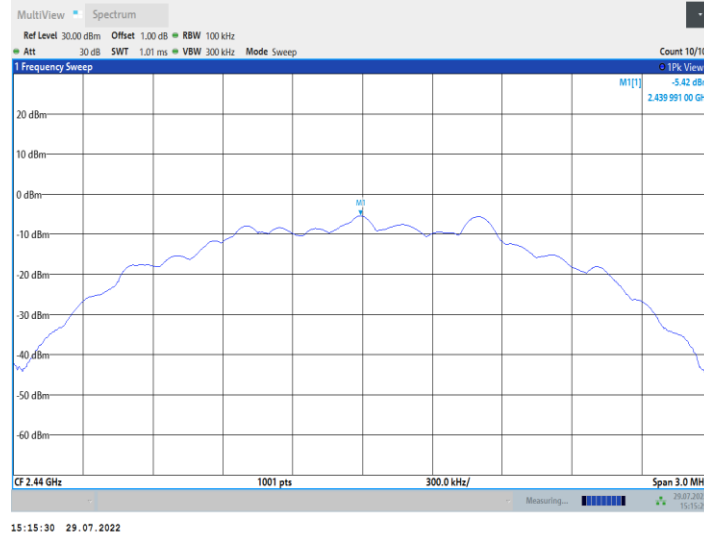


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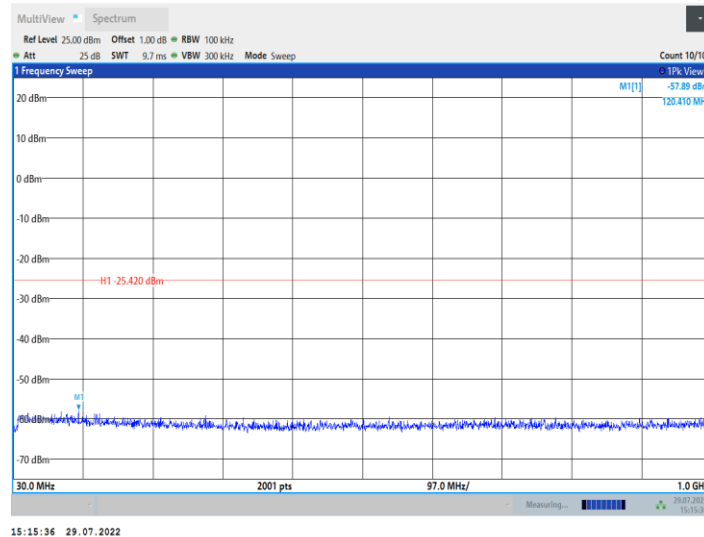
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BLE 2M Ant4 2440 0~Reference



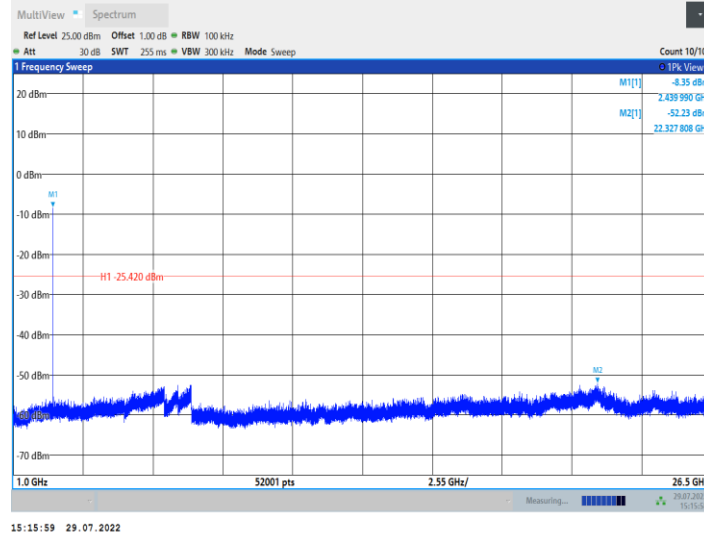
BLE 2M Ant4 2440 30~1000



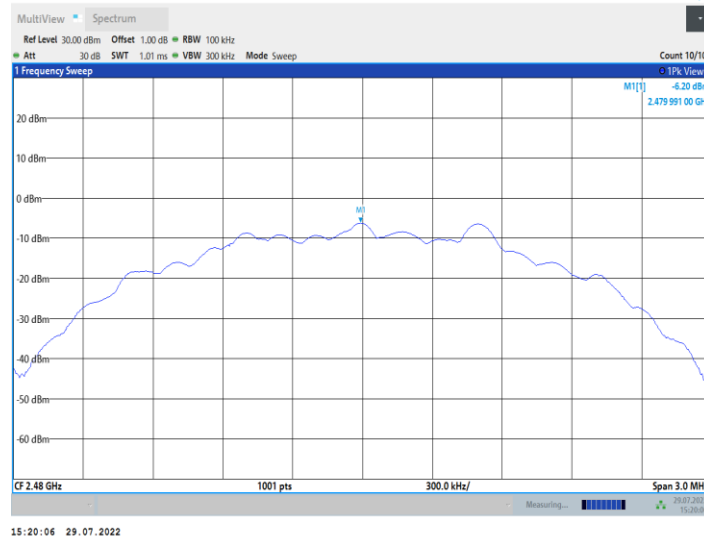
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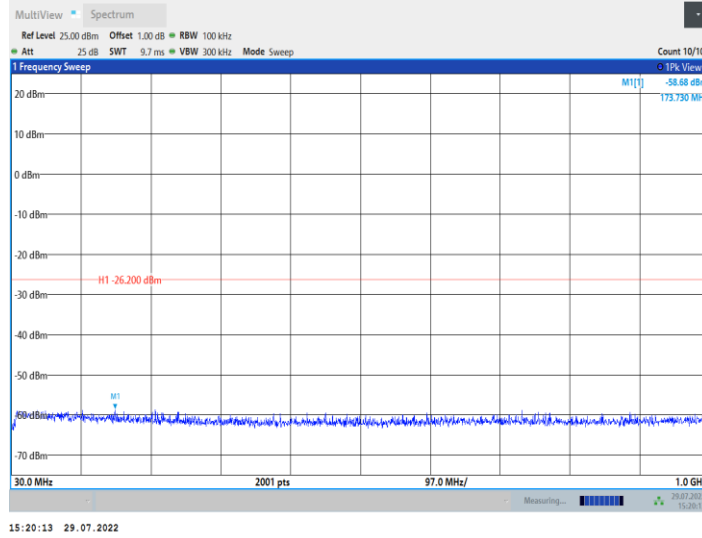
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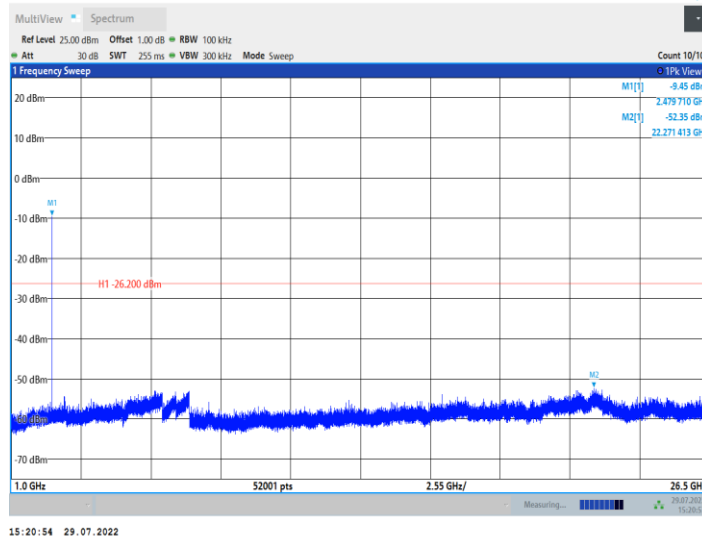
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Report No.: SEWM2207000122RG03

Rev.: 01

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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	Ant4	2402	0.38	0.63	60.32	2.20
BLE_2M	Ant4	2402	1.07	1.88	56.91	2.45



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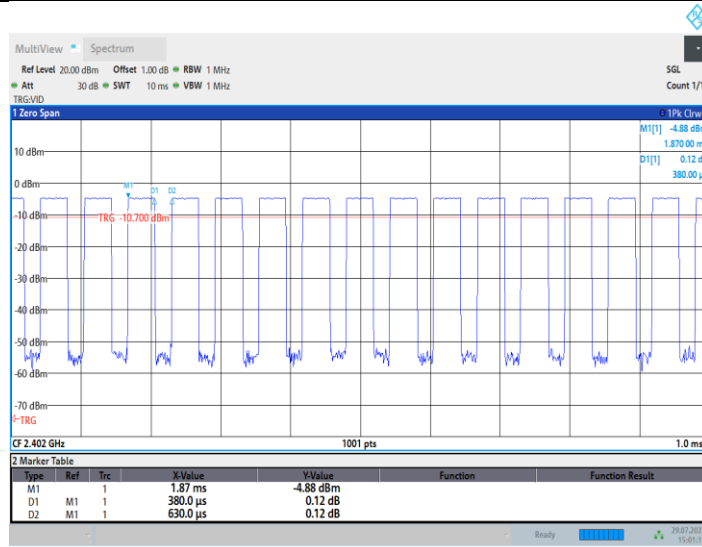
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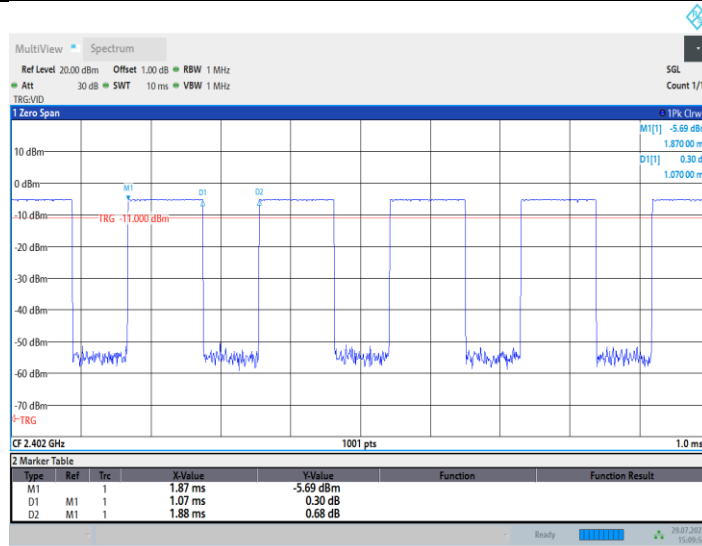
Test Graphs

BLE_1M_Ant4_2402



15:01:17 29.07.2022

BLE_2M_Ant4_2402



15:09:56 29.07.2022



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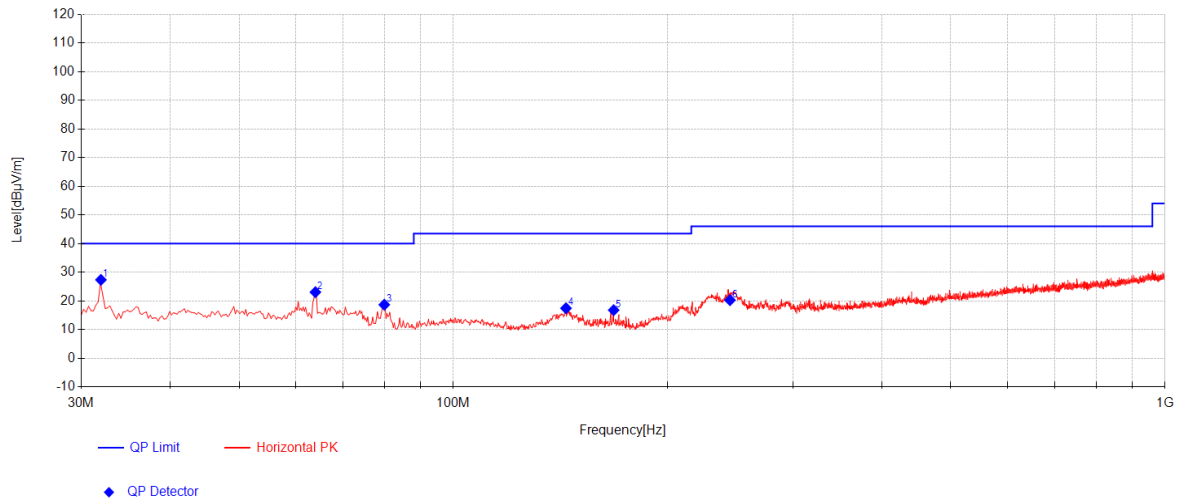
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Radiated Spurious Emissions

Radiated emission below 1GHz

For Sample #1:

Worst case Mode: BLE 1M_Channel 19



Final 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	31.9835	45.37	-28.48	10.46	27.35	40.00	12.65	190	302	Horizontal
2	64.0065	40.38	-27.67	10.33	23.04	40.00	16.96	220	102	Horizontal
3	79.9859	39.55	-27.93	7.05	18.67	40.00	21.33	218	309	Horizontal
4	143.9958	37.39	-27.29	7.34	17.44	43.50	26.06	200	345	Horizontal
5	168.0093	35.41	-26.52	7.88	16.77	43.50	26.73	188	6	Horizontal
6	244.7497	34.54	-26.13	11.85	20.26	46.00	25.74	113	4	Horizontal



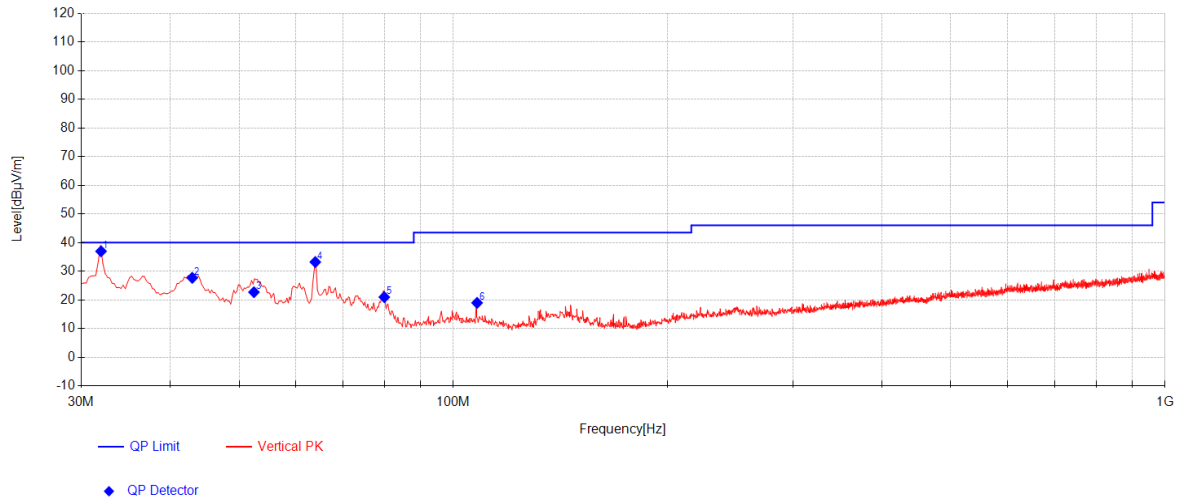
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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.9941	54.98	-28.48	10.46	36.96	40.00	3.04	118	144	Vertical
2	42.9728	43.08	-28.06	12.67	27.69	40.00	12.31	106	232	Vertical
3	52.4719	37.42	-27.91	13.19	22.70	40.00	17.30	113	199	Vertical
4	63.9889	50.54	-27.67	10.33	33.20	40.00	6.80	203	56	Vertical
5	79.9897	41.90	-27.94	7.01	20.97	40.00	19.03	106	314	Vertical
6	108.0126	35.65	-27.41	10.72	18.96	43.50	24.54	189	102	Vertical



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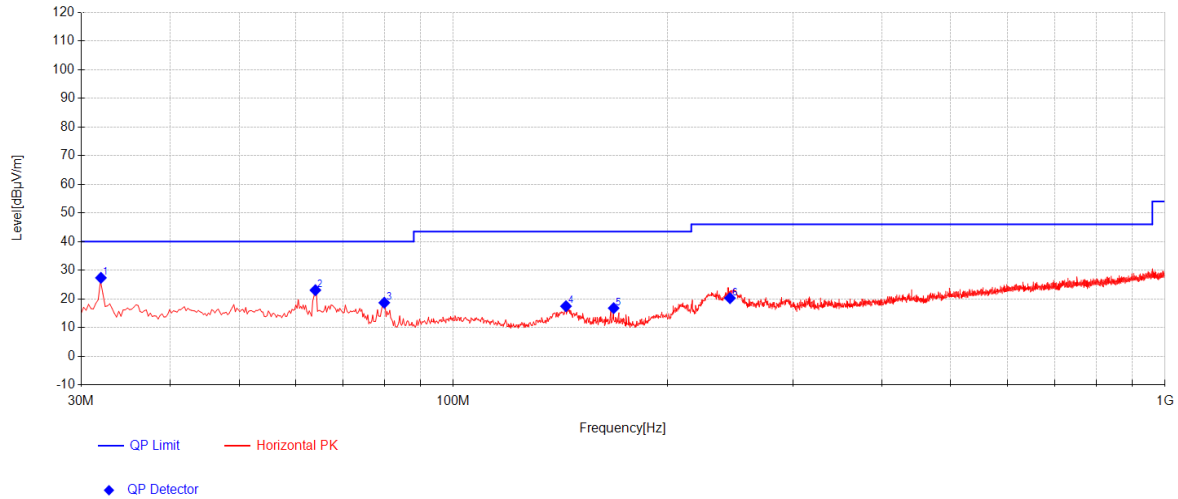
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For Sample #2:

Worst case Mode: BLE 1M_Channel 19



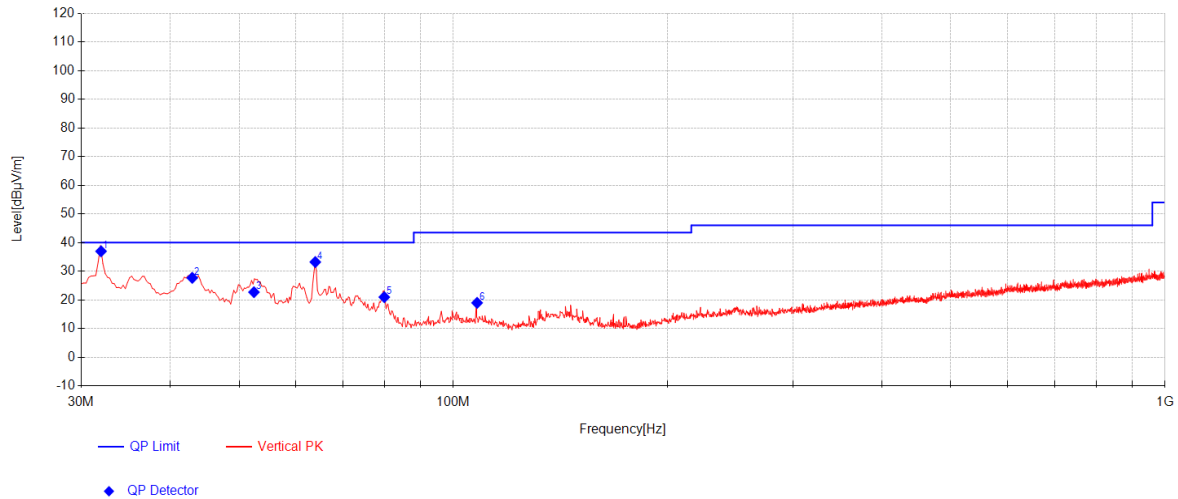
Final Data List										
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1	31.9835	45.37	-28.48	10.46	27.35	40.00	12.65	190	302	Horizontal
2	64.0065	40.38	-27.67	10.33	23.04	40.00	16.96	220	102	Horizontal
3	79.9859	39.55	-27.93	7.05	18.67	40.00	21.33	218	309	Horizontal
4	143.9958	37.39	-27.29	7.34	17.44	43.50	26.06	200	345	Horizontal
5	168.0093	35.41	-26.52	7.88	16.77	43.50	26.73	188	6	Horizontal
6	244.7497	34.54	-26.13	11.85	20.26	46.00	25.74	113	4	Horizontal



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1	31.9941	54.98	-28.48	10.46	36.96	40.00	3.04	118	144	Vertical
2	42.9728	43.08	-28.06	12.67	27.69	40.00	12.31	106	232	Vertical
3	52.4719	37.42	-27.91	13.19	22.70	40.00	17.30	113	199	Vertical
4	63.9889	50.54	-27.67	10.33	33.20	40.00	6.80	203	56	Vertical
5	79.9897	41.90	-27.94	7.01	20.97	40.00	19.03	106	314	Vertical
6	108.0126	35.65	-27.41	10.72	18.96	43.50	24.54	189	102	Vertical

Remark:

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

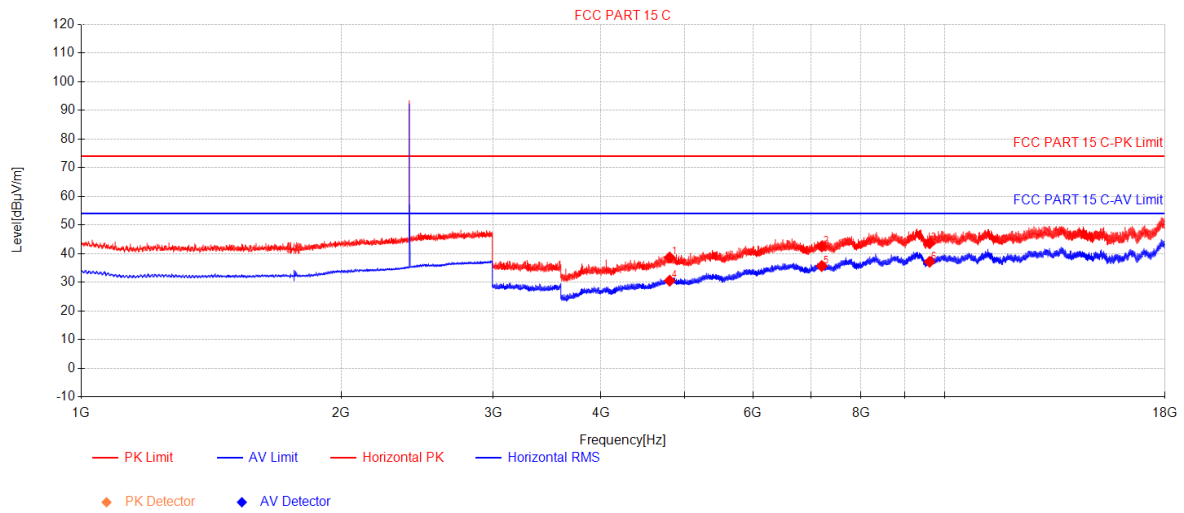


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Transmitter emission Above 1GHz

For Sample #1:

BLE 1M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.96	32.13	-44.46	38.63	74.00	35.37	142	80	Horizontal
2	7206	48.40	36.32	-42.23	42.49	74.00	31.51	285	28	Horizontal
3	9608	43.09	38.54	-38.05	43.58	74.00	30.42	263	360	Horizontal
4	4804	42.86	32.13	-44.46	30.53	54.00	23.47	265	105	Horizontal
5	7206	41.55	36.32	-42.23	35.64	54.00	18.36	241	105	Horizontal
6	9608	36.64	38.54	-38.05	37.13	54.00	16.87	196	80	Horizontal

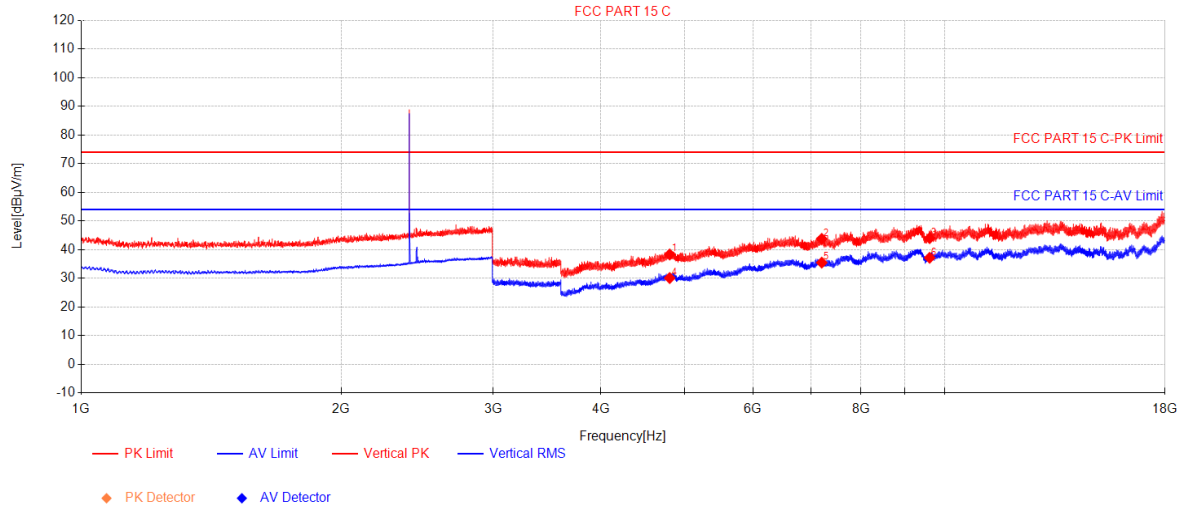


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BLE 1M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.62	32.13	-44.46	38.29	74.00	35.71	142	359	Vertical
2	7206	49.65	36.32	-42.23	43.74	74.00	30.26	286	154	Vertical
3	9608	43.48	38.54	-38.05	43.97	74.00	30.03	263	55	Vertical
4	4804	42.40	32.13	-44.46	30.07	54.00	23.93	265	309	Vertical
5	7206	41.36	36.32	-42.23	35.45	54.00	18.55	296	106	Vertical
6	9608	36.64	38.54	-38.05	37.13	54.00	16.87	241	4	Vertical



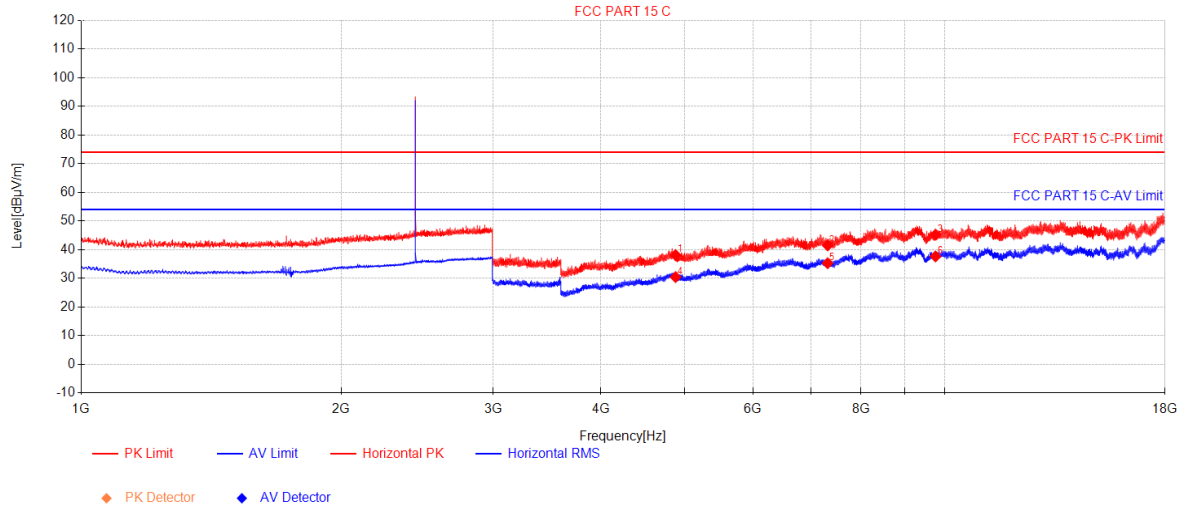
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BLE 1M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	50.57	32.31	-44.79	38.09	74.00	35.91	163	3	Horizontal
2	7320	46.84	36.39	-41.80	41.43	74.00	32.57	251	359	Horizontal
3	9760	44.15	38.52	-37.51	45.17	74.00	28.83	142	359	Horizontal
4	4880	42.88	32.31	-44.79	30.40	54.00	23.60	287	256	Horizontal
5	7320	40.64	36.39	-41.80	35.23	54.00	18.77	196	28	Horizontal
6	9760	36.59	38.52	-37.51	37.61	54.00	16.39	263	208	Horizontal



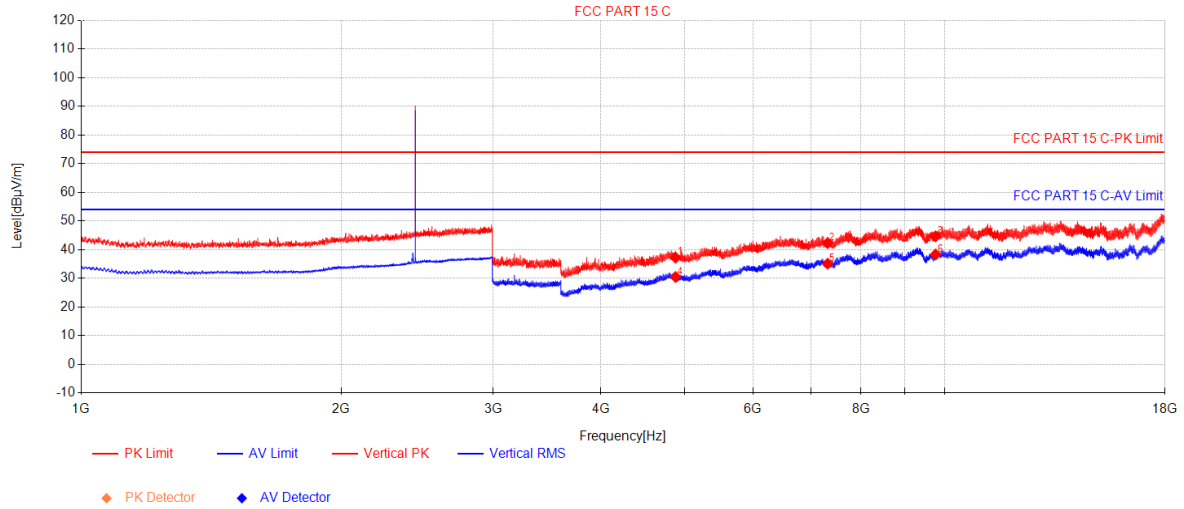
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BLE 1M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.66	32.31	-44.79	37.18	74.00	36.82	263	207	Vertical
2	7320	47.66	36.39	-41.80	42.25	74.00	31.75	302	360	Vertical
3	9760	43.60	38.52	-37.51	44.62	74.00	29.38	214	278	Vertical
4	4880	42.91	32.31	-44.79	30.43	54.00	23.57	175	27	Vertical
5	7320	40.48	36.39	-41.80	35.07	54.00	18.93	264	359	Vertical
6	9760	37.26	38.52	-37.51	38.28	54.00	15.72	341	3	Vertical

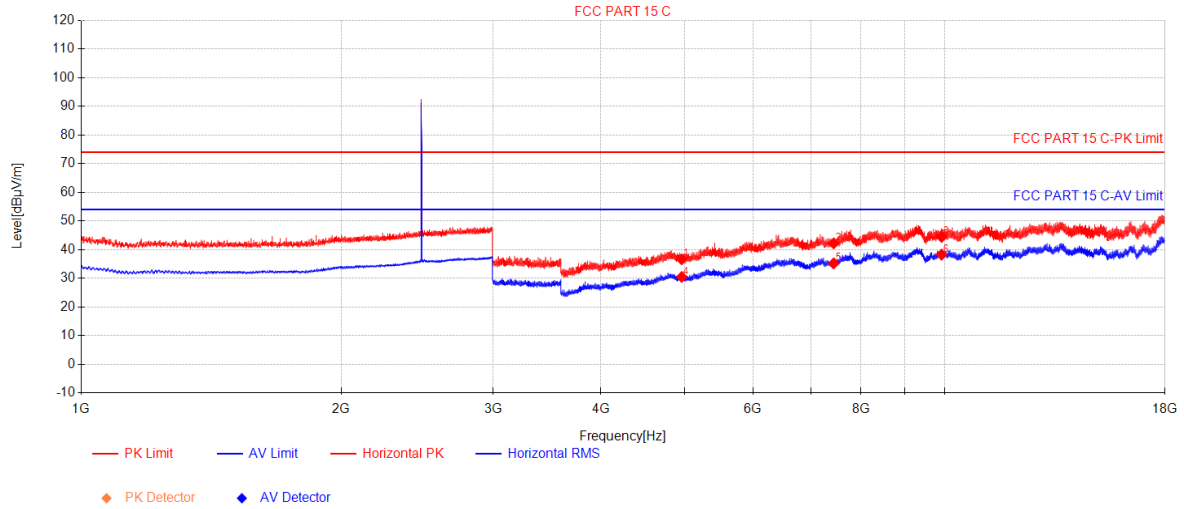


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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.00	32.50	-44.92	36.59	74.00	37.41	142	179	Horizontal
2	7440	47.52	36.46	-41.83	42.16	74.00	31.84	285	282	Horizontal
3	9920	43.09	38.51	-37.22	44.38	74.00	29.62	263	207	Horizontal
4	4960	42.85	32.50	-44.92	30.44	54.00	23.56	265	257	Horizontal
5	7440	40.55	36.46	-41.83	35.19	54.00	18.81	241	29	Horizontal
6	9920	36.93	38.51	-37.22	38.22	54.00	15.78	178	359	Horizontal



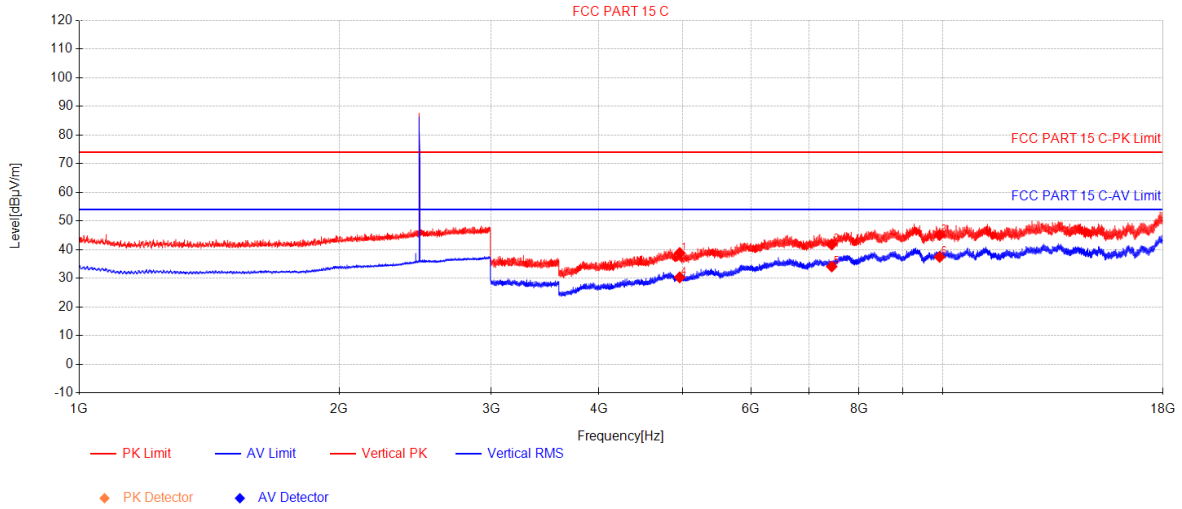
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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	51.21	32.50	-44.92	38.80	74.00	35.20	142	200	Vertical
2	7440	47.17	36.46	-41.83	41.81	74.00	32.19	285	3	Vertical
3	9920	43.79	38.51	-37.22	45.08	74.00	28.92	263	3	Vertical
4	4960	42.71	32.50	-44.92	30.30	54.00	23.70	265	258	Vertical
5	7440	39.44	36.46	-41.83	34.08	54.00	19.92	210	310	Vertical
6	9920	36.14	38.51	-37.22	37.43	54.00	16.57	196	28	Vertical

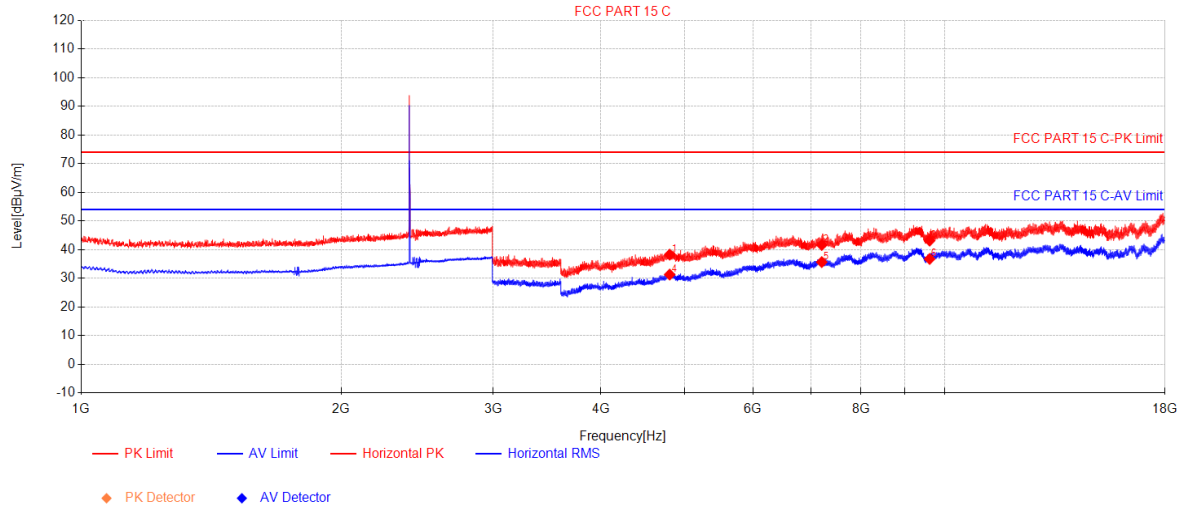


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BLE 2M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.56	32.13	-44.46	38.23	74.00	35.77	142	357	Horizontal
2	7206	47.51	36.32	-42.23	41.60	74.00	32.40	285	53	Horizontal
3	9608	42.62	38.54	-38.05	43.11	74.00	30.89	263	280	Horizontal
4	4804	43.61	32.13	-44.46	31.28	54.00	22.72	265	214	Horizontal
5	7206	41.53	36.32	-42.23	35.62	54.00	18.38	241	264	Horizontal
6	9608	36.23	38.54	-38.05	36.72	54.00	17.28	196	332	Horizontal

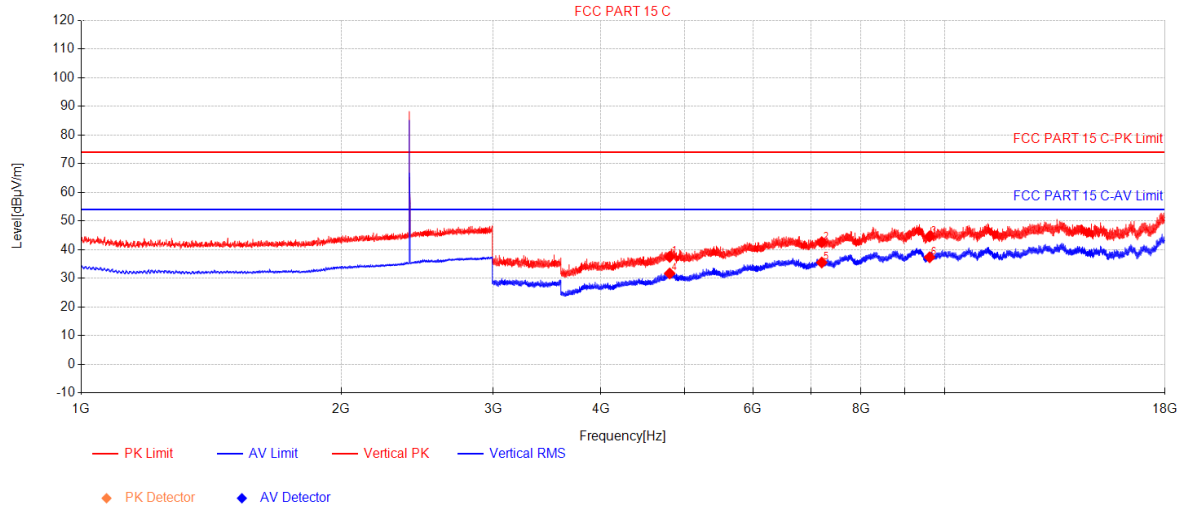


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BLE 2M_Channel 00



Data List										
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1	4804	49.79	32.13	-44.46	37.46	74.00	36.54	142	80	Vertical
2	7206	48.46	36.32	-42.23	42.55	74.00	31.45	285	334	Vertical
3	9608	44.12	38.54	-38.05	44.61	74.00	29.39	263	231	Vertical
4	4804	44.00	32.13	-44.46	31.67	54.00	22.33	265	206	Vertical
5	7206	41.39	36.32	-42.23	35.48	54.00	18.52	241	80	Vertical
6	9608	36.81	38.54	-38.05	37.30	54.00	16.70	174	3	Vertical

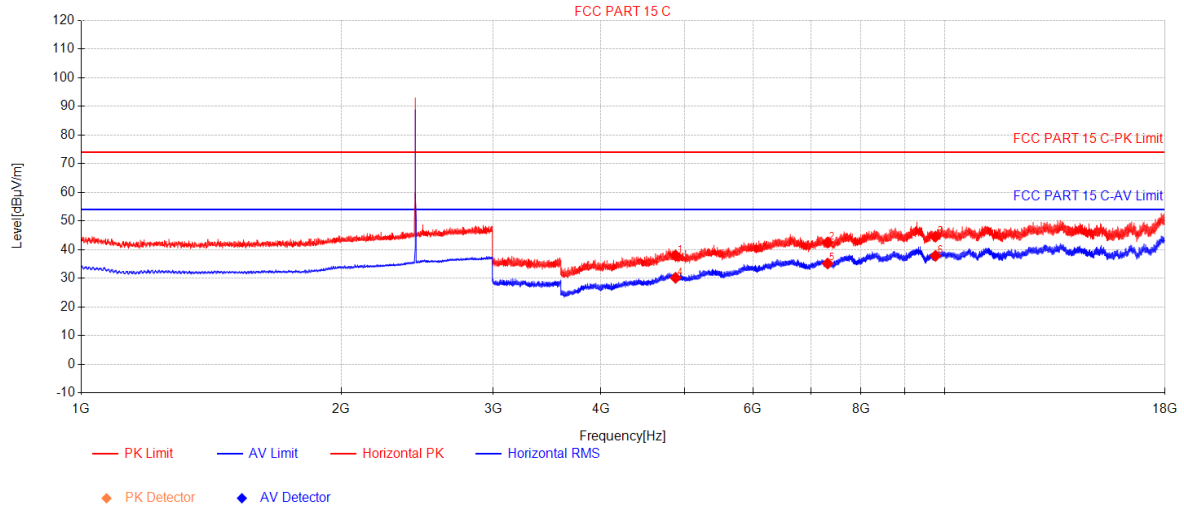


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BLE 2M_Channel 19



Data List										
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1	4880	50.40	32.31	-44.79	37.92	74.00	36.08	163	204	Horizontal
2	7320	47.88	36.39	-41.80	42.47	74.00	31.53	265	51	Horizontal
3	9760	43.49	38.52	-37.51	44.51	74.00	29.49	241	204	Horizontal
4	4880	42.63	32.31	-44.79	30.15	54.00	23.85	175	204	Horizontal
5	7320	40.53	36.39	-41.80	35.12	54.00	18.88	265	304	Horizontal
6	9760	36.78	38.52	-37.51	37.80	54.00	16.20	214	128	Horizontal



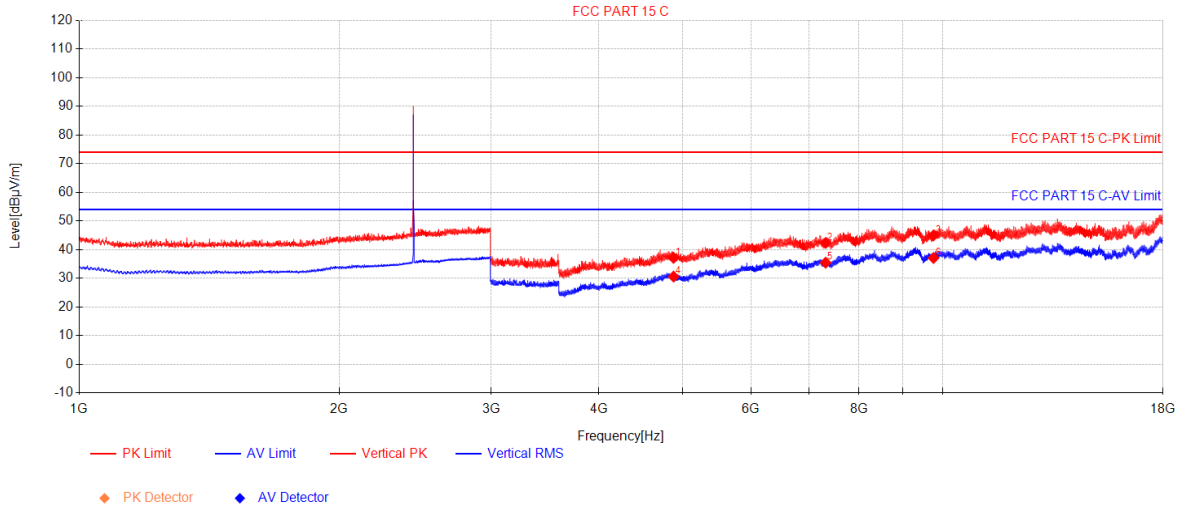
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.58	32.31	-44.79	37.10	74.00	36.90	169	129	Vertical
2	7320	47.72	36.39	-41.80	42.31	74.00	31.69	241	54	Vertical
3	9760	43.92	38.52	-37.51	44.94	74.00	29.06	178	79	Vertical
4	4880	43.04	32.31	-44.79	30.56	54.00	23.44	263	54	Vertical
5	7320	40.82	36.39	-41.80	35.41	54.00	18.59	201	360	Vertical
6	9760	36.05	38.52	-37.51	37.07	54.00	16.93	142	279	Vertical



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BLE 2M_Channel 39

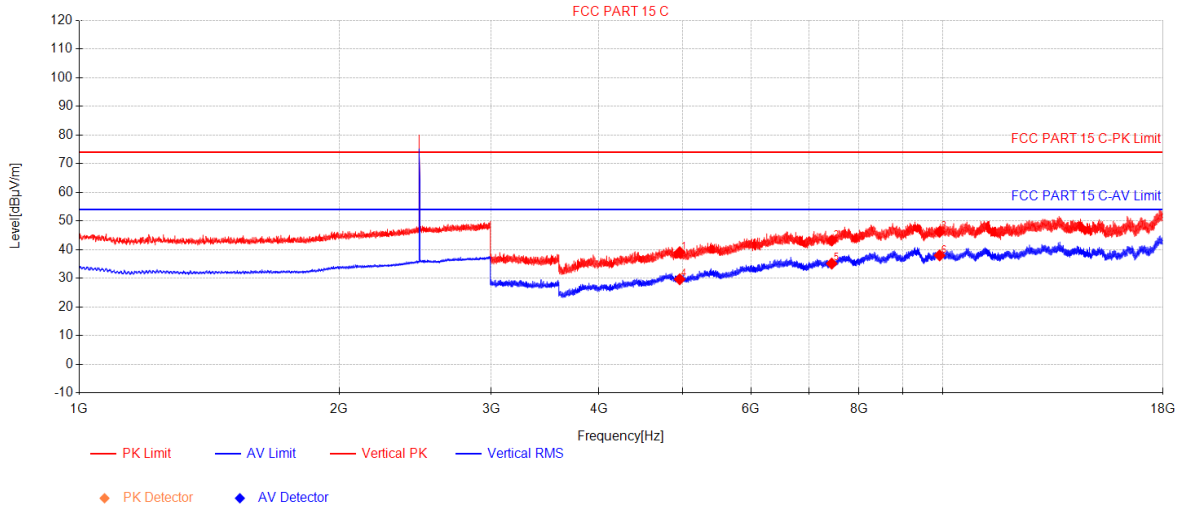
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	50.78	32.50	-44.92	38.37	74.00	35.63	163	51	Horizontal
2	7440	48.04	36.46	-41.83	42.68	74.00	31.32	265	255	Horizontal
3	9920	45.27	38.51	-37.22	46.56	74.00	27.44	241	51	Horizontal
4	4960	44.12	32.50	-44.92	31.71	54.00	22.29	196	360	Horizontal
5	7440	41.14	36.46	-41.83	35.78	54.00	18.22	266	255	Horizontal
6	9920	37.59	38.51	-37.22	38.88	54.00	15.12	241	78	Horizontal



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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	51.50	32.50	-44.92	39.09	74.00	36.41	142	310	Vertical
2	7440	48.50	36.46	-41.83	43.14	74.00	32.36	285	310	Vertical
3	9920	44.88	38.51	-37.22	46.17	74.00	29.33	263	180	Vertical
4	4960	42.04	32.50	-44.92	29.63	54.00	24.37	269	310	Vertical
5	7440	40.48	36.46	-41.83	35.12	54.00	18.88	284	3	Vertical
6	9920	36.66	38.51	-37.22	37.95	54.00	16.05	143	77	Vertical



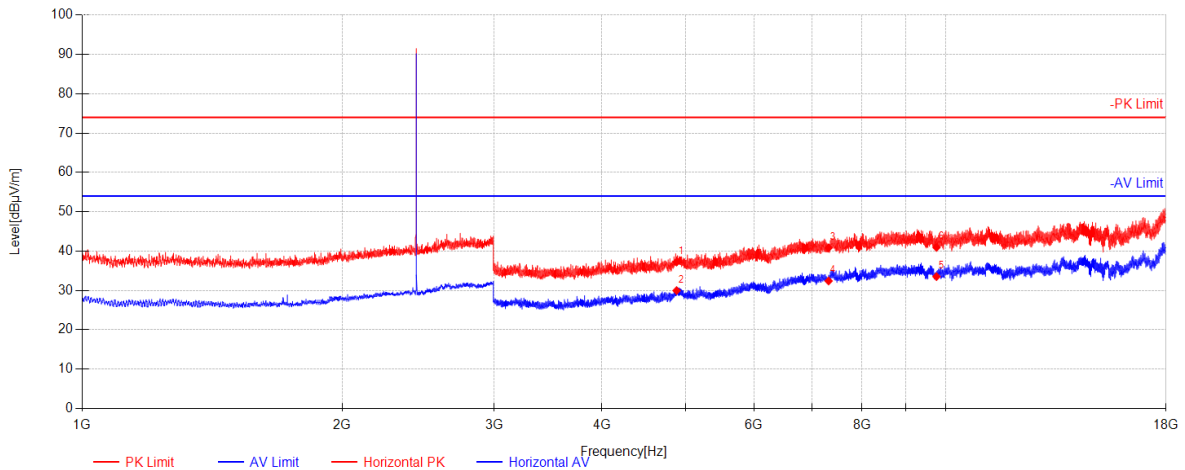
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For Sample #2(Worst):

BLE 1M_Channel 19



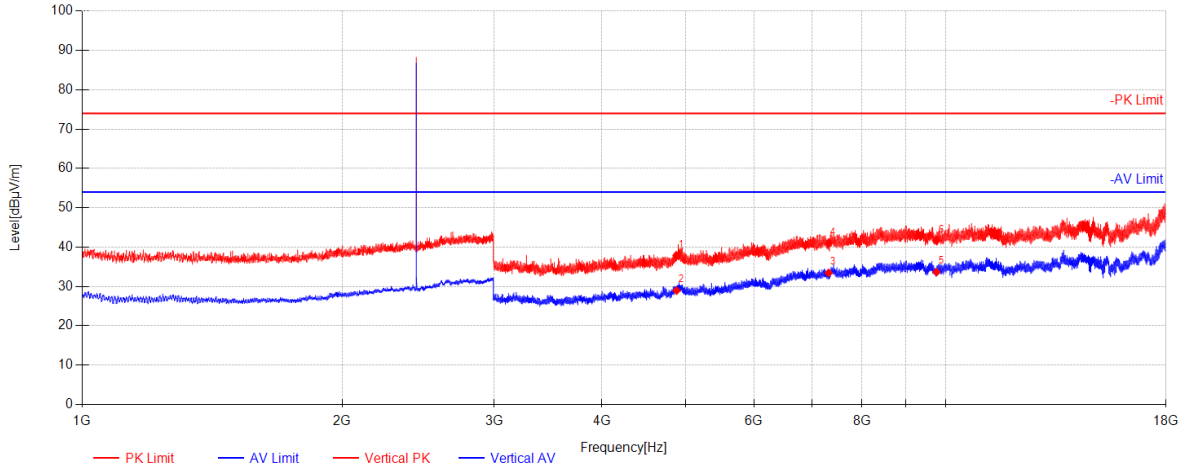
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	50.21	32.54	-45.53	37.22	74.00	36.78	216	29	Horizontal
2	4880.0000	42.95	32.54	-45.53	29.96	54.00	24.04	143	29	Horizontal
3	7320.0000	48.00	36.53	-43.68	40.85	74.00	33.15	199	221	Horizontal
4	7320.0000	39.56	36.53	-43.68	32.41	54.00	21.59	135	25	Horizontal
5	9760.0000	34.72	38.26	-39.46	33.52	54.00	20.48	122	0	Horizontal
6	9760.0000	42.15	38.26	-39.46	40.95	74.00	33.05	160	304	Horizontal



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BLE 1M_Channel 19



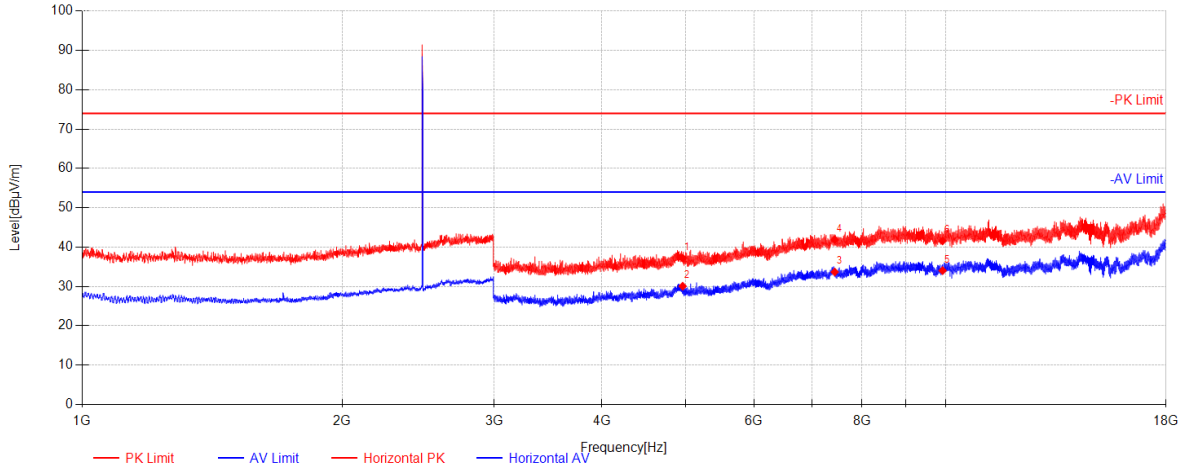
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	50.85	32.54	-45.53	37.86	74.00	36.14	175	332	Vertical
2	4880.0000	41.93	32.54	-45.53	28.94	54.00	25.06	164	166	Vertical
3	7320.0000	40.62	36.53	-43.68	33.47	54.00	20.53	142	305	Vertical
4	7320.0000	48.19	36.53	-43.68	41.04	74.00	32.96	182	0	Vertical
5	9760.0000	34.86	38.26	-39.46	33.66	54.00	20.34	166	139	Vertical
6	9760.0000	42.92	38.26	-39.46	41.72	74.00	32.28	122	357	Vertical



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BLE 2M_Channel 39



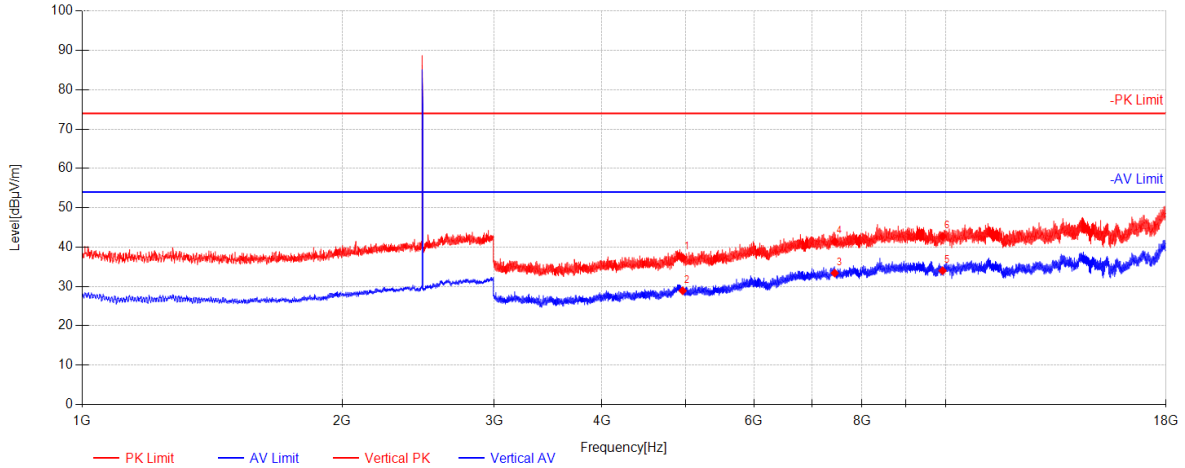
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	50.04	32.77	-45.60	37.21	74.00	36.79	215	278	Horizontal
2	4960.0000	42.90	32.77	-45.60	30.07	54.00	23.93	148	334	Horizontal
3	7440.0000	40.51	36.47	-43.30	33.68	54.00	20.32	136	54	Horizontal
4	7440.0000	48.72	36.47	-43.30	41.89	74.00	32.11	175	305	Horizontal
5	9920.0000	34.96	38.38	-39.31	34.03	54.00	19.97	261	7	Horizontal
6	9920.0000	42.51	38.38	-39.31	41.58	74.00	32.42	191	250	Horizontal



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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	50.17	32.77	-45.60	37.34	74.00	36.66	214	140	Vertical
2	4960.0000	41.74	32.77	-45.60	28.91	54.00	25.09	175	275	Vertical
3	7440.0000	40.21	36.47	-43.30	33.38	54.00	20.62	166	246	Vertical
4	7440.0000	48.23	36.47	-43.30	41.40	74.00	32.60	142	140	Vertical
5	9920.0000	34.93	38.38	-39.31	34.00	54.00	20.00	190	168	Vertical
6	9920.0000	43.65	38.38	-39.31	42.72	74.00	31.28	100	83	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:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB):$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.

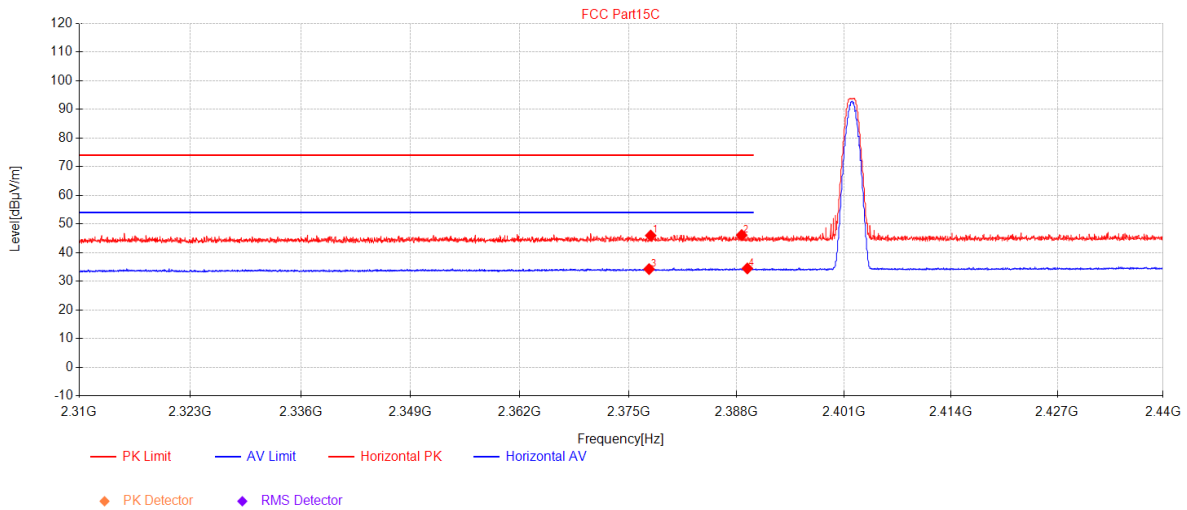


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Restricted bands around fundamental frequency

For Sample #1:

BLE 1M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.665	42.71	27.66	-24.45	45.92	74.00	28.08	112	241	Horizontal
2	2388.6175	42.83	27.68	-24.43	46.08	74.00	27.92	112	241	Horizontal
3	2377.47	31.02	27.65	-24.45	34.23	54.00	19.77	112	241	Horizontal
4	2389.3	31.20	27.68	-24.42	34.46	54.00	19.54	112	241	Horizontal



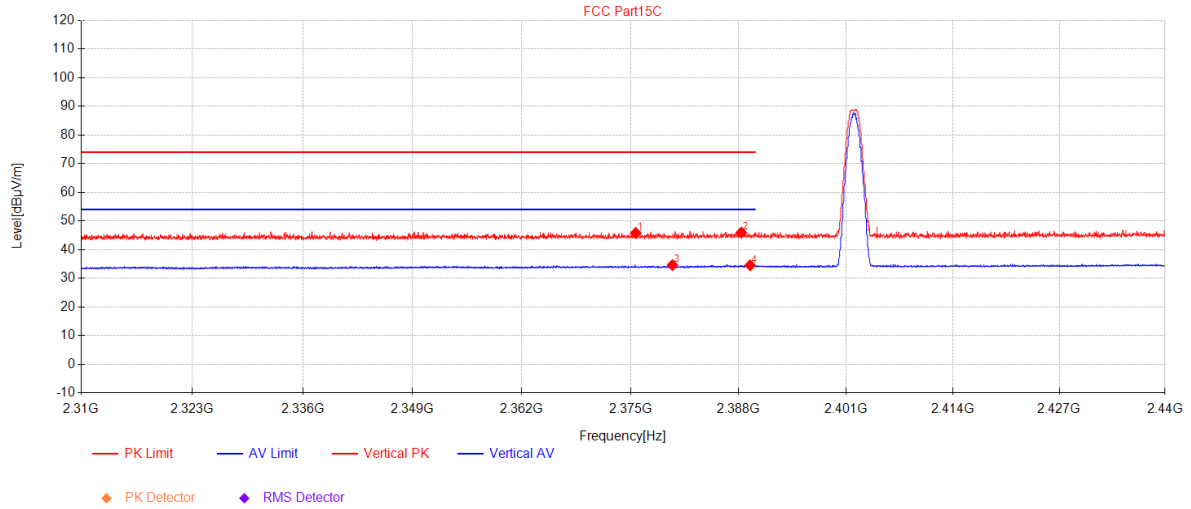
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BLE 1M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.6175	42.57	27.65	-24.45	45.77	74.00	28.23	336	184	Vertical
2	2388.325	42.66	27.68	-24.43	45.91	74.00	28.09	336	184	Vertical
3	2380.0375	31.38	27.66	-24.44	34.60	54.00	19.40	336	184	Vertical
4	2389.3975	31.25	27.68	-24.42	34.51	54.00	19.49	336	184	Vertical

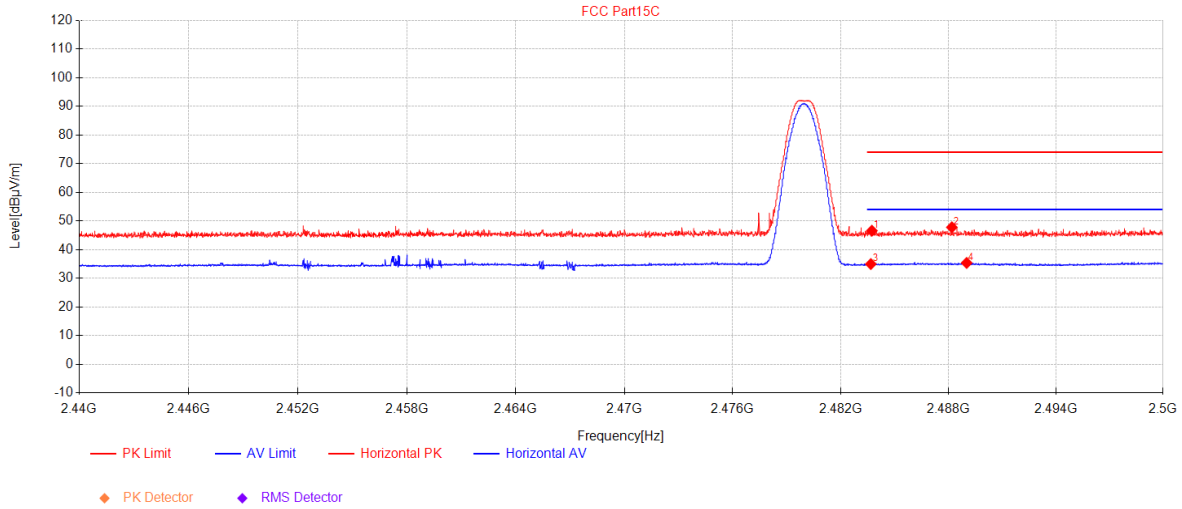


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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.74	42.66	27.87	-23.96	46.57	74.00	27.43	186	227	Horizontal
2	2488.195	43.83	27.88	-23.93	47.77	74.00	26.23	186	227	Horizontal
3	2483.68	31.04	27.87	-23.96	34.95	54.00	19.05	186	227	Horizontal
4	2489.02	31.39	27.88	-23.93	35.34	54.00	18.66	186	227	Horizontal

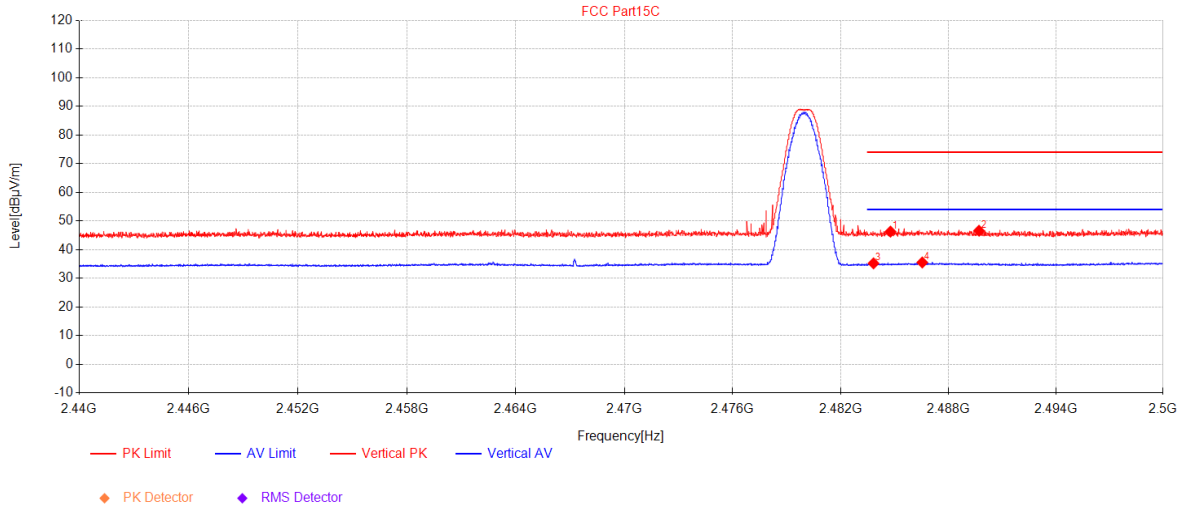


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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.775	42.33	27.87	-23.95	46.25	74.00	27.75	362	59	Vertical
2	2489.71	42.62	27.88	-23.92	46.57	74.00	27.43	362	59	Vertical
3	2483.83	31.28	27.87	-23.96	35.19	54.00	18.81	362	59	Vertical
4	2486.545	31.57	27.87	-23.94	35.50	54.00	18.50	362	59	Vertical

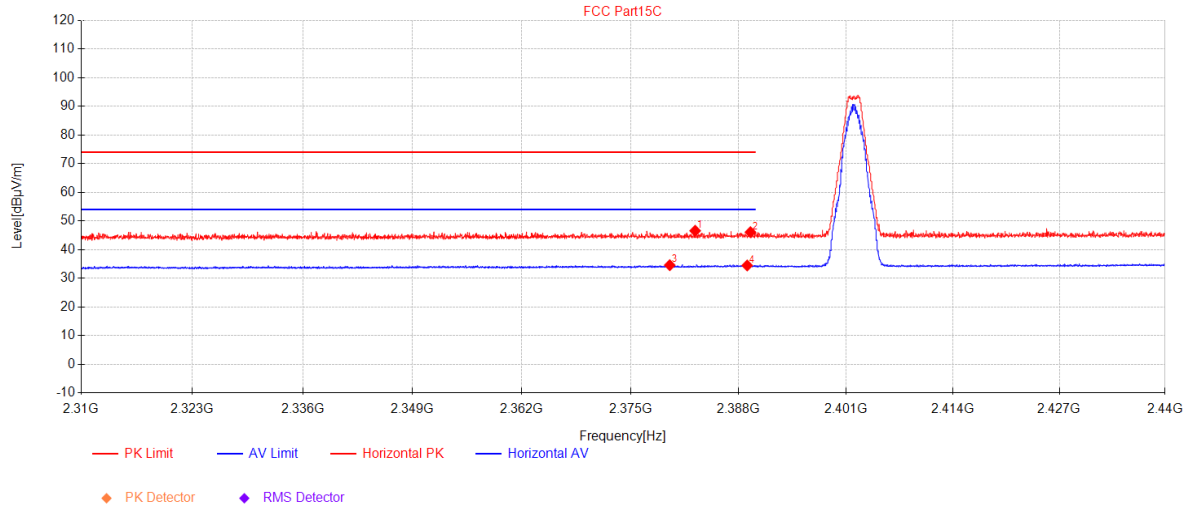


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BLE 2M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.7675	43.31	27.67	-24.44	46.54	74.00	27.46	104	245	Horizontal
2	2389.43	42.80	27.68	-24.42	46.06	74.00	27.94	104	245	Horizontal
3	2379.7125	31.33	27.66	-24.44	34.54	54.00	19.46	104	245	Horizontal
4	2389.04	31.19	27.68	-24.42	34.44	54.00	19.56	104	245	Horizontal



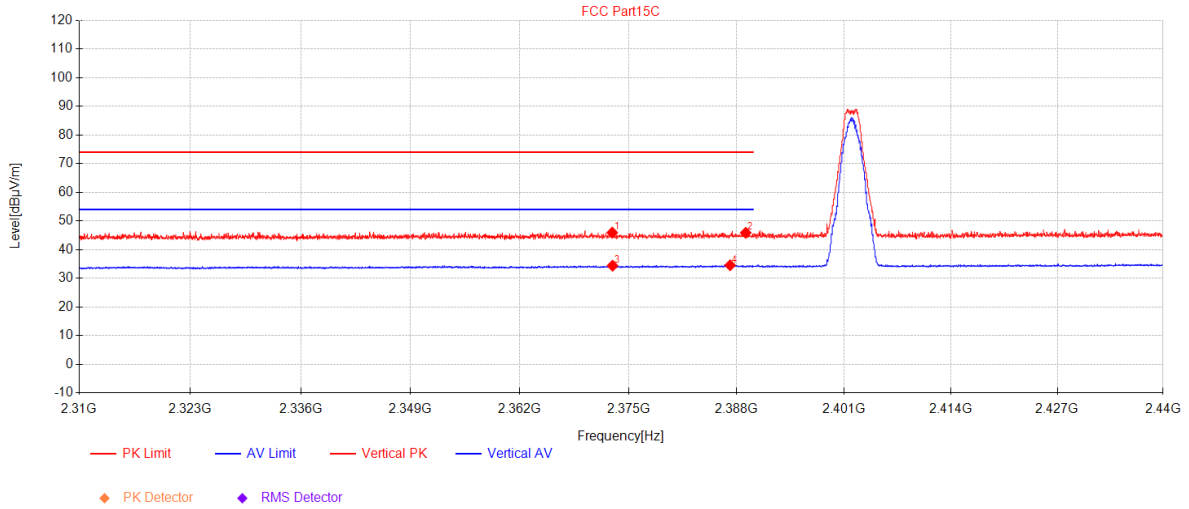
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BLE 2M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.05	42.70	27.65	-24.46	45.89	74.00	28.11	356	163	Vertical
2	2389.105	42.59	27.68	-24.42	45.84	74.00	28.16	356	163	Vertical
3	2373.0825	31.17	27.65	-24.46	34.36	54.00	19.64	356	163	Vertical
4	2387.22	31.27	27.67	-24.43	34.52	54.00	19.48	356	163	Vertical



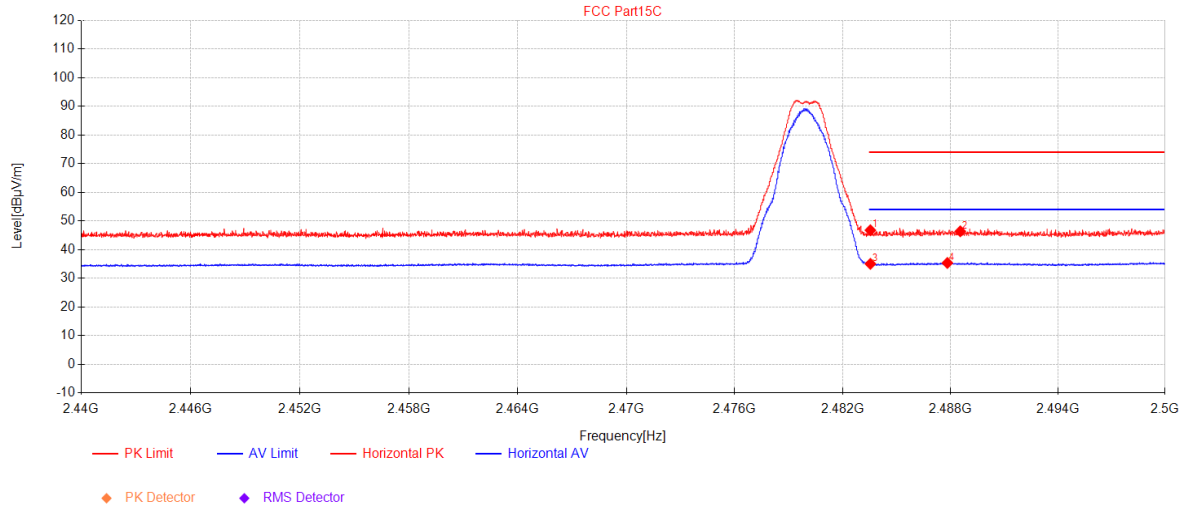
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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.545	42.82	27.87	-23.96	46.73	74.00	27.27	126	245	Horizontal
2	2488.555	42.42	27.88	-23.93	46.37	74.00	27.63	126	245	Horizontal
3	2483.545	31.11	27.87	-23.96	35.02	54.00	18.98	126	245	Horizontal
4	2487.835	31.39	27.88	-23.93	35.33	54.00	18.67	126	245	Horizontal

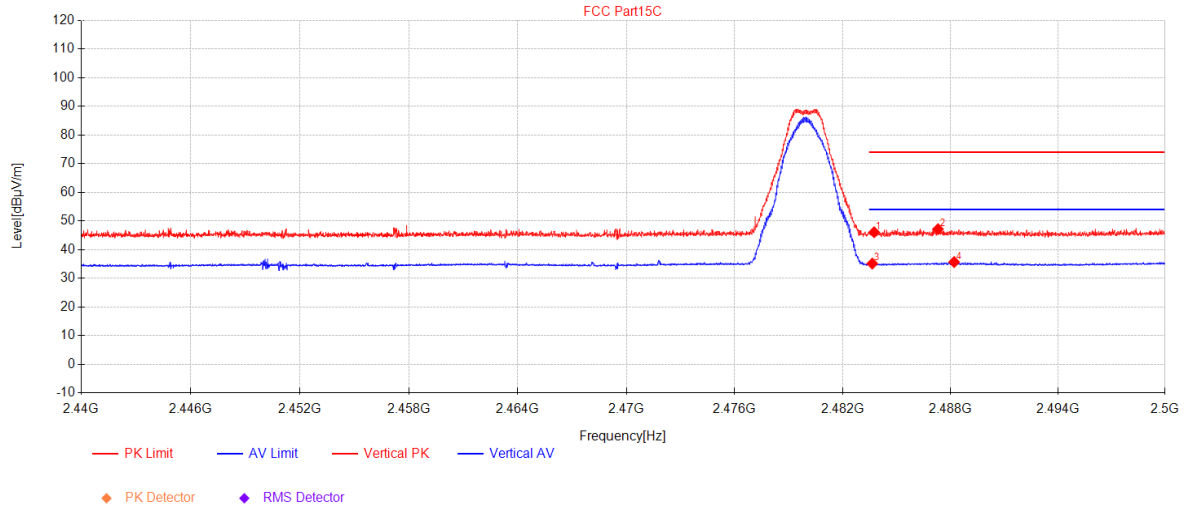


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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.755	42.13	27.87	-23.96	46.04	74.00	27.96	375	29	Vertical
2	2487.31	43.19	27.87	-23.94	47.13	74.00	26.87	375	29	Vertical
3	2483.65	31.20	27.87	-23.96	35.11	54.00	18.89	375	29	Vertical
4	2488.21	31.70	27.88	-23.93	35.64	54.00	18.36	375	29	Vertical



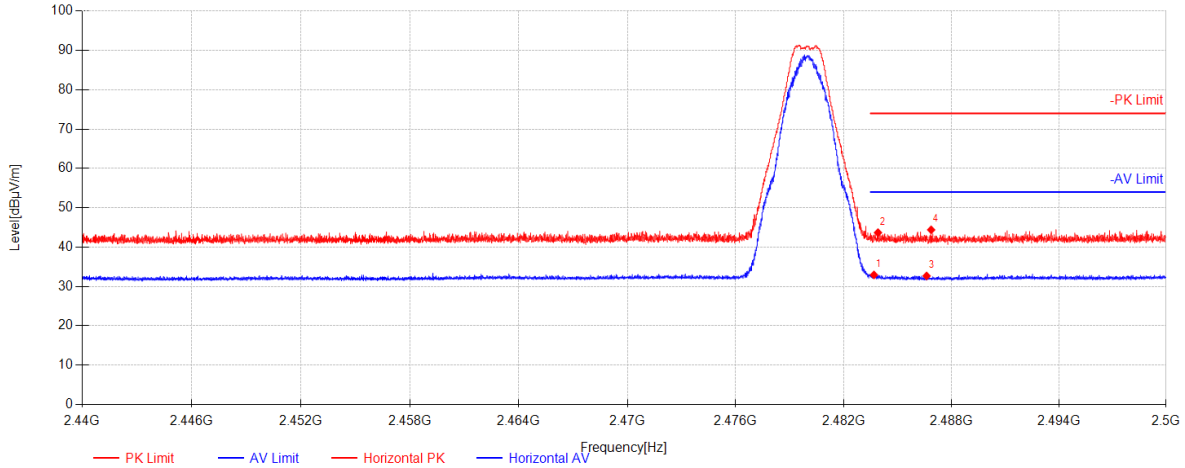
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For Sample #2(Worst):

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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	2483.6875	28.76	27.72	-23.54	32.93	54.00	21.07	185	206	Horizontal
2	2483.9125	39.50	27.72	-23.54	43.67	74.00	30.33	185	206	Horizontal
3	2486.62	28.50	27.73	-23.54	32.68	54.00	21.32	185	206	Horizontal
4	2486.875	40.21	27.73	-23.54	44.39	74.00	29.61	185	206	Horizontal



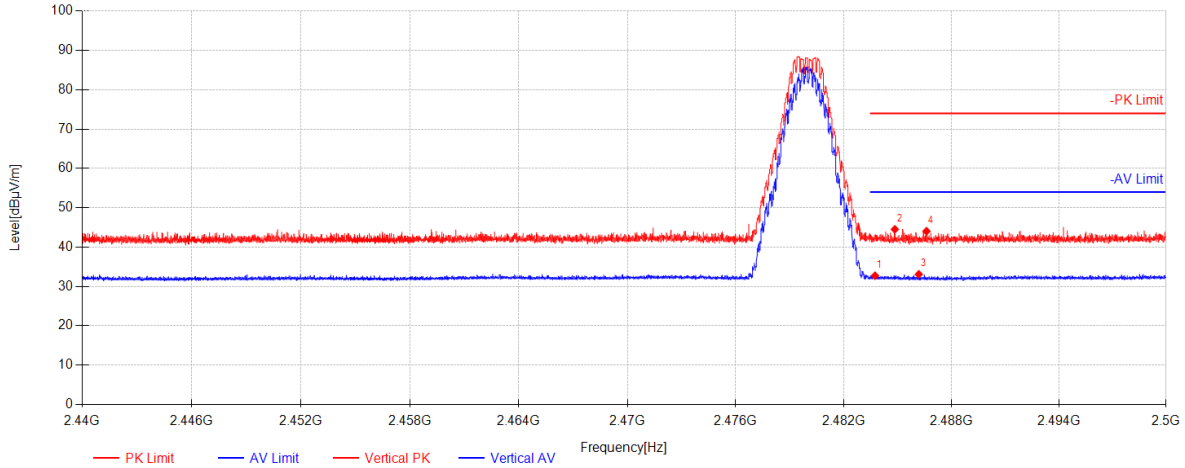
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1	2483.7475	28.56	27.72	-23.54	32.73	54.00	21.27	194	150	Vertical
2	2484.85	40.34	27.72	-23.54	44.52	74.00	29.48	194	150	Vertical
3	2486.185	28.91	27.72	-23.54	33.09	54.00	20.91	194	150	Vertical
4	2486.6125	39.87	27.73	-23.54	44.05	74.00	29.95	194	150	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:

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

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

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

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$

---End of Report---



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