

Report No.: SEWM2209000168RG04

Rev.: 01

Page: 1 of 118

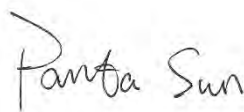
TEST REPORT

Application No.: SEWM2209000168RG
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.: 22101320G
Trade Mark: POCO
FCC ID: 2AFZZ1320G
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/09/29
Date of Test: 2022/10/01 to 2022/10/25
Date of Issue: 2022/10/26

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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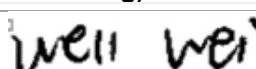
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 2 of 118

1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/10/26		Original

Prepared By	
	(Lves Cheng) / Test Engineer
Checked By	
	(Well Wei) / Reviewer



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 3 of 118

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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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 4 of 118

Contents

1	Version	2
2	Test Summary	3
3	General Information	5
3.1	Details of Client	5
3.2	Test Location	5
3.3	Test Facility	5
3.4	General Description of EUT	6
3.5	Test Environment	8
3.6	Description of Support Units	8
4	Test results and Measurement Data	9
4.1	Antenna Requirement	9
4.2	AC Power Line Conducted Emissions	10
4.3	Duty Cycle	14
4.4	Conducted Output Power	15
4.5	DTS (6 dB) Bandwidth	16
4.6	Power Spectral Density	17
4.7	Band-edge for RF Conducted Emissions	18
4.8	RF Conducted Spurious Emissions	19
4.9	Radiated Spurious Emissions	20
4.10	Restricted bands around fundamental frequency	23
5	Measurement Uncertainty (95% confidence levels, k=2)	25
6	Equipment List	26
7	Photographs - EUT Constructional Details	28



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 5 of 118

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:	Lves Cheng, King-p Li

3.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 6 of 118

3.4 General Description of EUT

EUT Description:	Mobile Phone		
Model No.:	22101320G		
Trade Mark:	POCO		
Hardware Version:	P2		
Software Version:	MIUI 14		
IMEI:	RF Conducted	869168060047466 869168060047474	
	RSE & AC power line	869168060034183 869168060034191	
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*:	☒ Provided by client		
	1M PHY	2M PHY	
Antenna Type:	PIFA Antenna		
Antenna Gain:	-0.3dBi(ANT7); -1.87dBi(ANT8);		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1db		

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

Remark:

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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 7 of 118

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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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 8 of 118

3.5 Test Environment

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

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 9 of 118

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -0.3dBi(ANT7); -1.87dBi(ANT8);* <i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <i>Remark:</i> <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.</i>	



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Report No.: SEWM2209000168RG04
 Rev.: 01
 Page: 10 of 118

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:	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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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 11 of 118

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



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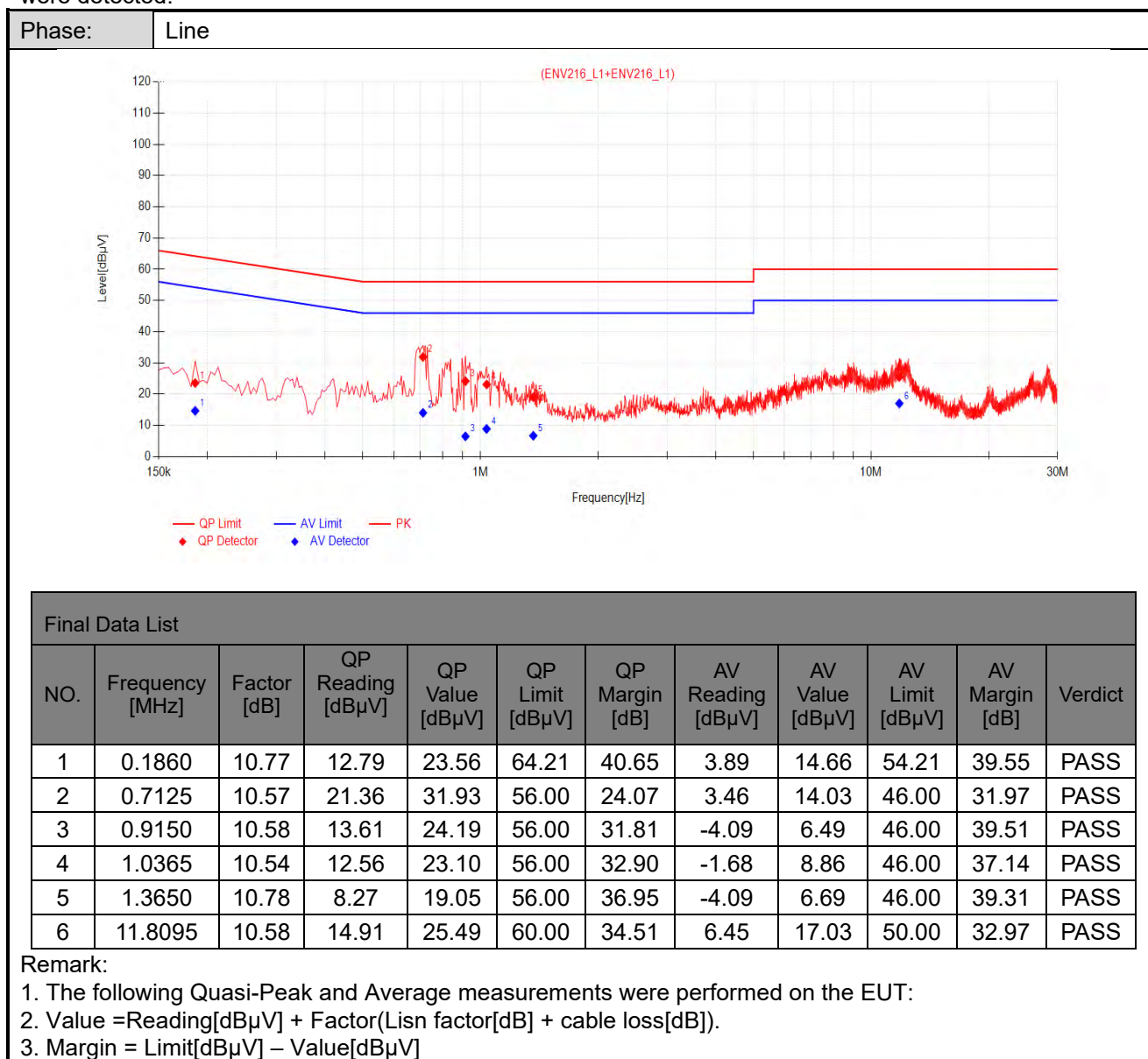
Rev.: 01

Page: 12 of 118

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.

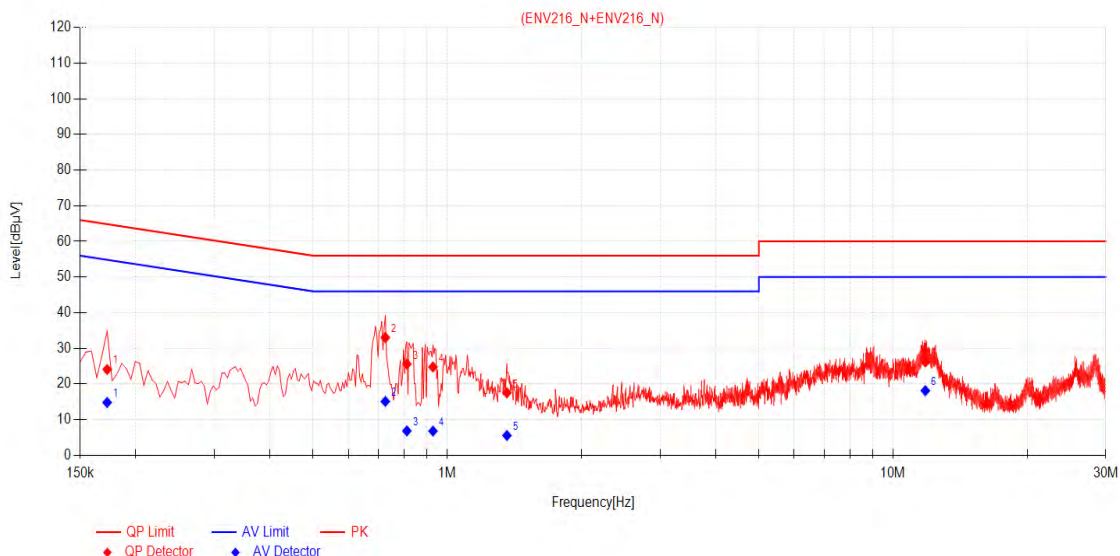


Report No.: SEWM2209000168RG04

Rev.: 01

Page: 13 of 118

Phase: Neutral



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	0.1725	10.71	13.39	24.10	64.84	40.74	4.11	14.82	54.84	40.02	PASS
2	0.7260	10.81	22.22	33.03	56.00	22.97	4.31	15.12	46.00	30.88	PASS
3	0.8115	10.80	14.78	25.58	56.00	30.42	-3.95	6.85	46.00	39.15	PASS
4	0.9285	10.73	14.05	24.78	56.00	31.22	-3.92	6.81	46.00	39.19	PASS
5	1.3605	10.78	6.75	17.53	56.00	38.47	-5.23	5.55	46.00	40.45	PASS
6	11.8185	10.64	15.56	26.20	60.00	33.80	7.49	18.13	50.00	31.87	PASS

Remark:

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



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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 14 of 118

4.3 Duty Cycle

The detailed test data see: **Appendix**



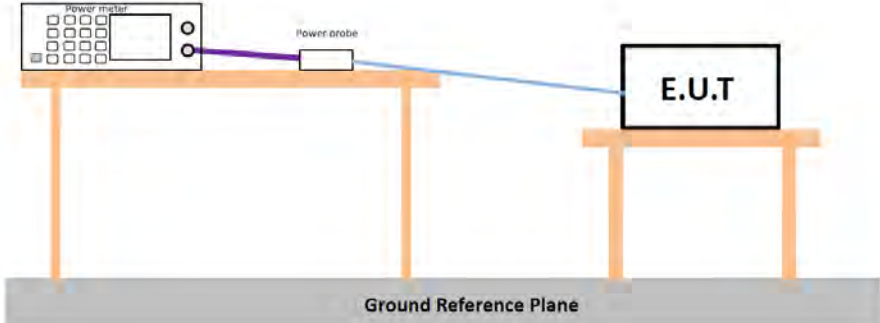
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 15 of 118

4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 * Test with power meter (Detector function: Peak)
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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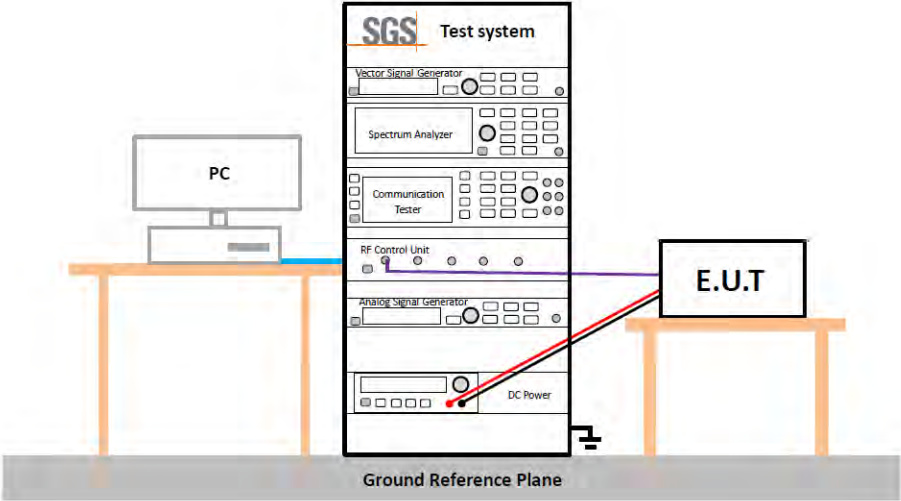
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 16 of 118

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	



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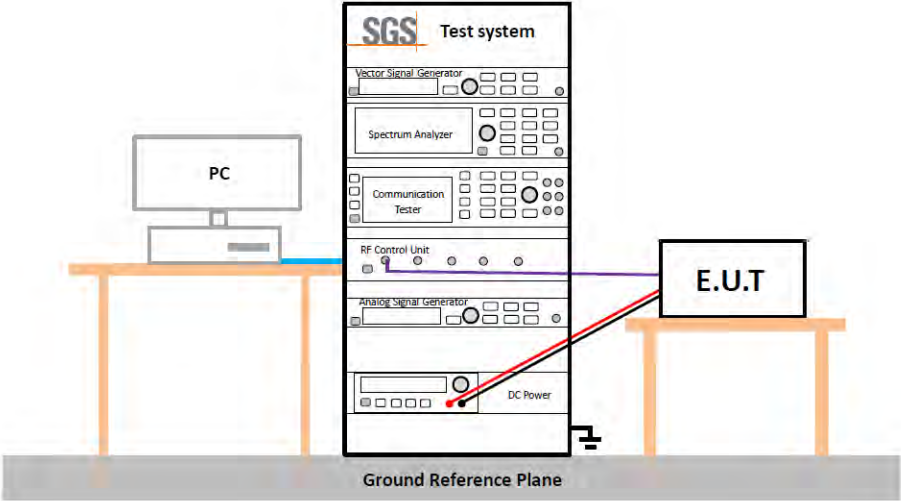
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 17 of 118

4.6 Power Spectral Density

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



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Rev.: 01
Page: 18 of 118

4.7 Band-edge for RF Conducted Emissions

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



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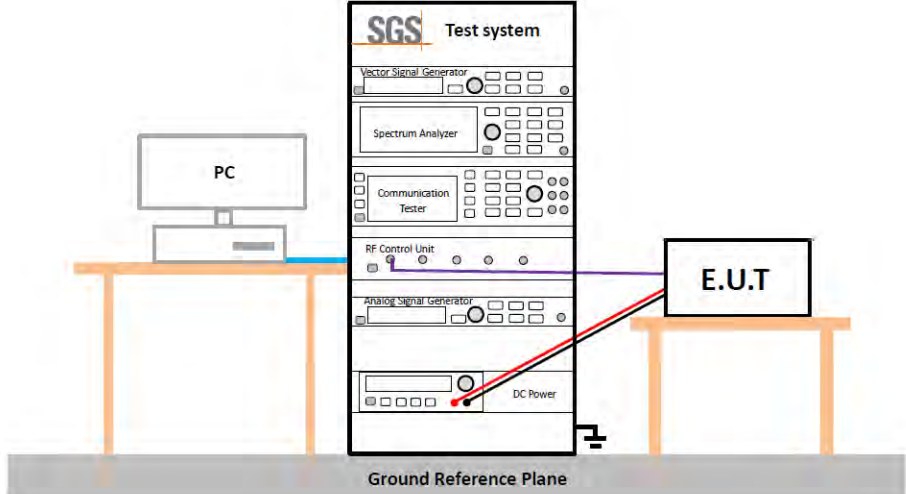
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 19 of 118

4.8 RF Conducted Spurious Emissions

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



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 20 of 118

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:

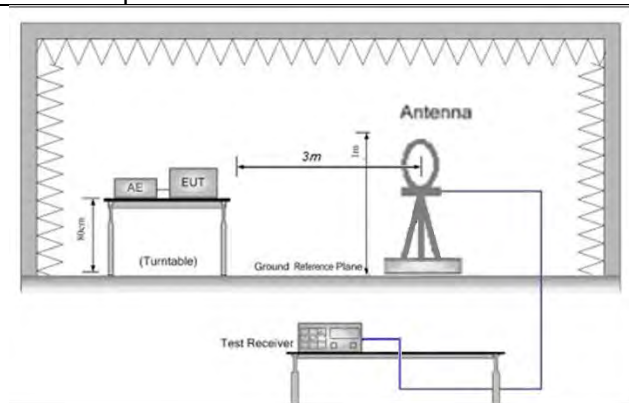


Figure 1. Below 30MHz

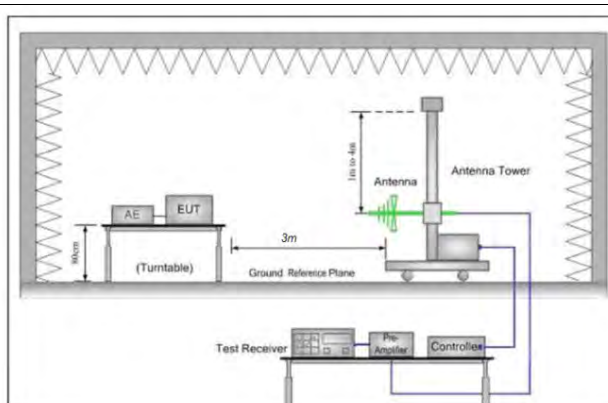


Figure 2. 30MHz to 1GHz



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Rev.: 01

Page: 21 of 118

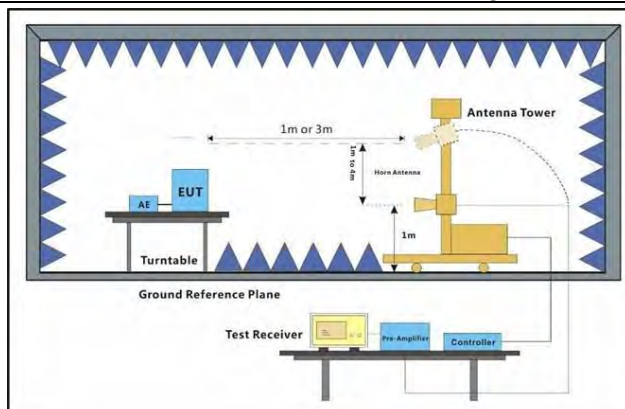


Figure 3. Above 1 GHz

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 (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 $20 \cdot \log(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements Below 1000MHz - RBW = 120 kHz - VBW = 300 kHz - Detector = Peak - Trace mode = max hold



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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 22 of 118

	Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • 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	



Report No.: SEWM2209000168RG04
Rev.: 01
Page: 23 of 118

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:

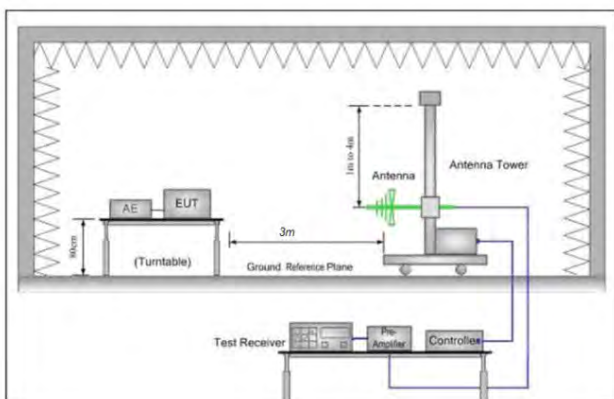


Figure 1. 30MHz to 1GHz

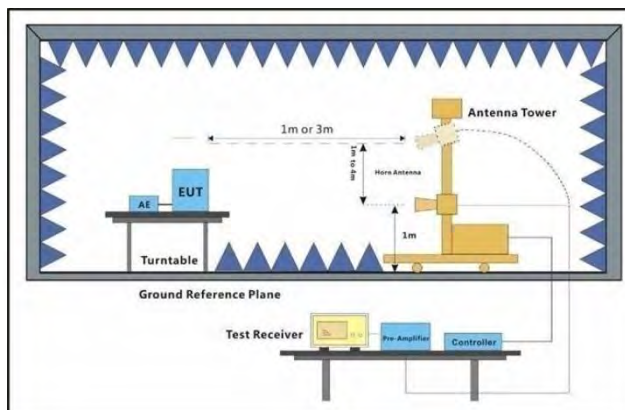


Figure 2. Above 1 GHz

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 frequency to show compliance. Also measure any emissions in the restricted



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 24 of 118

	bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel 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. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • 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. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 25 of 118

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

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

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 26 of 118

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
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
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
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

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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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 27 of 118

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 V4.0.0.1	SUWI-02-09-06	NCR	NCR



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Rev.: 01
Page: 28 of 118

7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Rev.: 01

Page: 29 of 118

Appendix



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Report No.: SEWM2209000168RG04
 Rev.: 01
 Page: 30 of 118

DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant7	2402	0.68	2401.66	2402.33	≥0.5	PASS
		2440	0.67	2439.66	2440.33	≥0.5	PASS
		2480	0.68	2479.66	2480.33	≥0.5	PASS
BLE_2M	Ant7	2402	1.15	2401.43	2402.58	≥0.5	PASS
		2440	1.15	2439.42	2440.58	≥0.5	PASS
		2480	1.14	2479.43	2480.58	≥0.5	PASS

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant8	2402	0.68	2401.66	2402.34	≥0.5	PASS
		2440	0.68	2439.65	2440.34	≥0.5	PASS
		2480	0.68	2479.66	2480.34	≥0.5	PASS
BLE_2M	Ant8	2402	1.16	2401.42	2402.59	≥0.5	PASS
		2440	1.16	2439.42	2440.58	≥0.5	PASS
		2480	1.16	2479.42	2480.58	≥0.5	PASS



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Test Graphs

BLE_1M_Ant7_2402



13:07:02 05.10.2022

BLE_1M_Ant7_2440



13:11:51 05.10.2022



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Rev.: 01

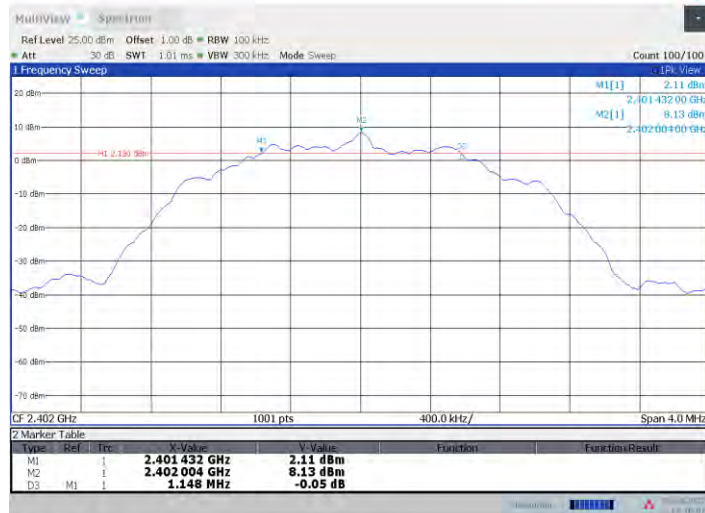
Page: 32 of 118

BLE_1M_Ant7_2480



13:13:36 05.10.2022

BLE_2M_Ant7_2402



13:16:08 05.10.2022



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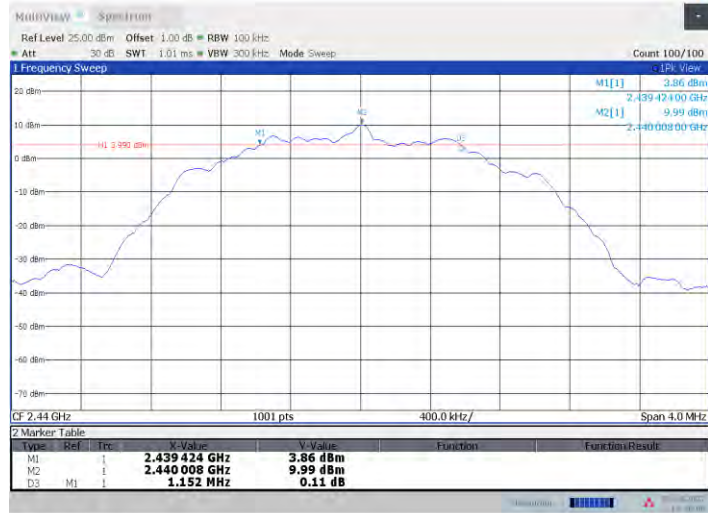
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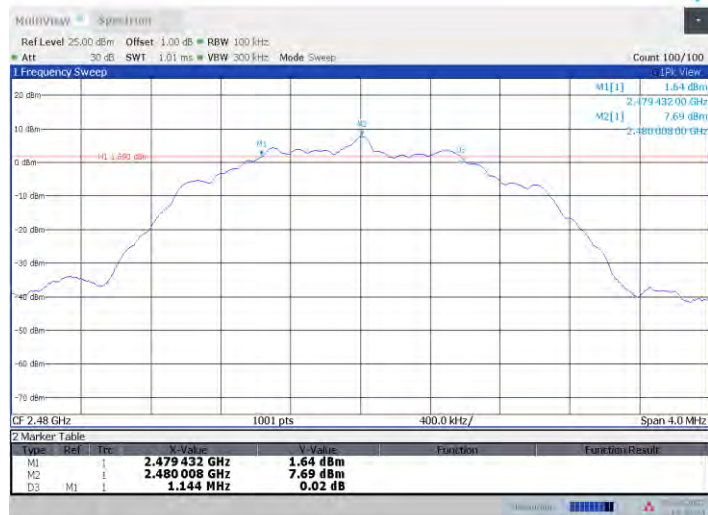
Page: 33 of 118

BLE_2M_Ant7_2440



13:18:09 05.10.2022

BLE_2M_Ant7_2480



13:22:25 05.10.2022



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 34 of 118

BLE_1M_Ant8_2402



11:10:19 07.10.2022

BLE_1M_Ant8_2440



11:13:29 07.10.2022



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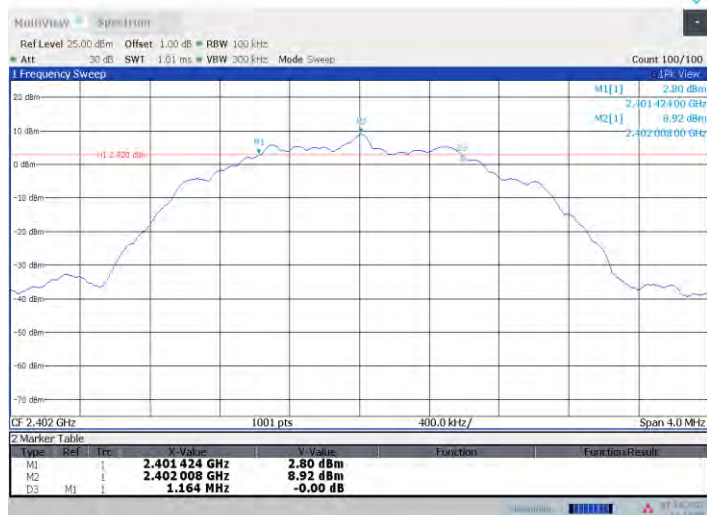
Page: 35 of 118

BLE_1M_Ant8_2480



11:15:11 07.10.2022

BLE_2M_Ant8_2402



11:17:09 07.10.2022



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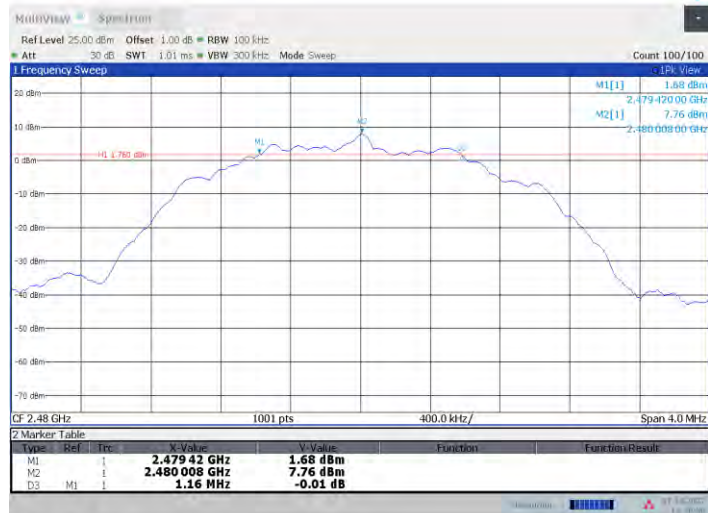
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BLE_2M_Ant8_2440



11:19:06 07.10.2022

BLE_2M_Ant8_2480



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 37 of 118

Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant7	2402	1.021	2401.494	2402.515	---	---
		2440	1.018	2439.495	2440.512	---	---
		2480	1.018	2479.495	2480.513	---	---
BLE_2M	Ant7	2402	2.009	2401.013	2403.022	---	---
		2440	2.007	2439.009	2441.016	---	---
		2480	2.009	2479.010	2481.019	---	---

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant8	2402	1.022	2401.495	2402.518	---	---
		2440	1.018	2439.494	2440.513	---	---
		2480	1.018	2479.494	2480.512	---	---
BLE_2M	Ant8	2402	2.009	2401.016	2403.024	---	---
		2440	2.006	2439.009	2441.015	---	---
		2480	2.007	2479.007	2481.015	---	---



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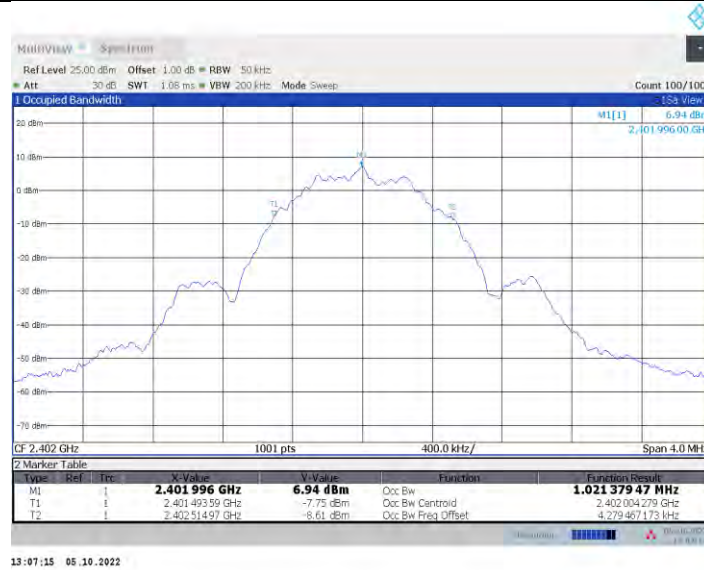
Report No.: SEWM2209000168RG04

Rev.: 01

Page: 38 of 118

Test Graphs

BLE_1M_Ant7_2402



BLE_1M_Ant7_2440



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Page: 39 of 118

BLE_1M_Ant7_2480



BLE_2M_Ant7_2402



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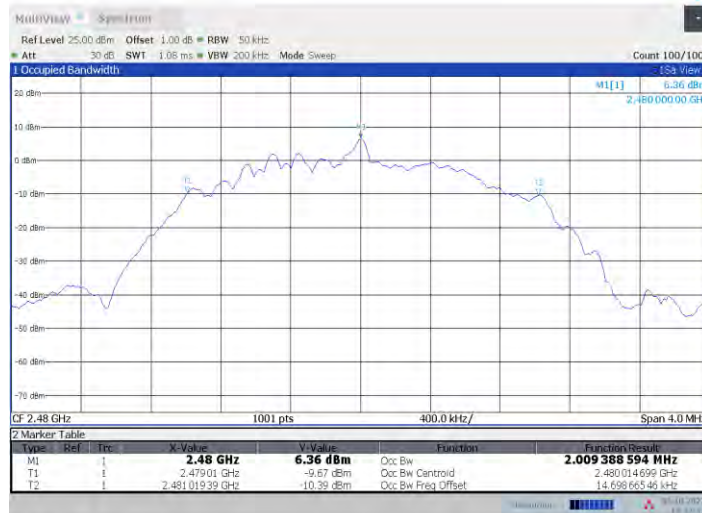
Page: 40 of 118

BLE_2M_Ant7_2440



13:18:21 05.10.2022

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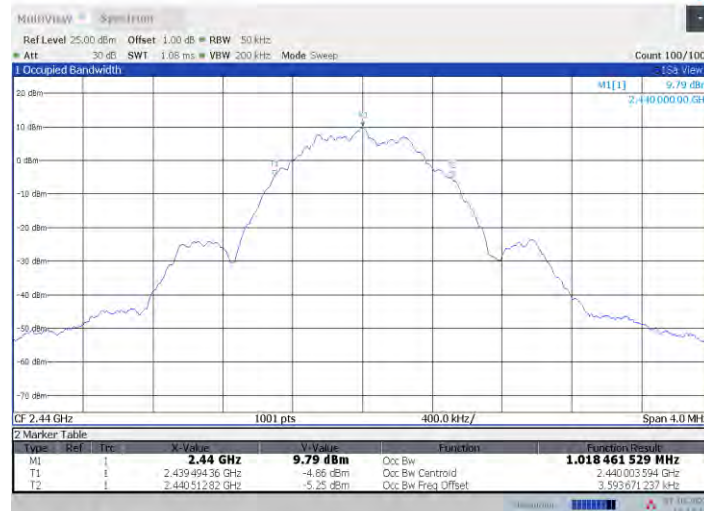
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BLE_1M_Ant8_2402



11:10:31 07.10.2022

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11:17:22 07.10.2022



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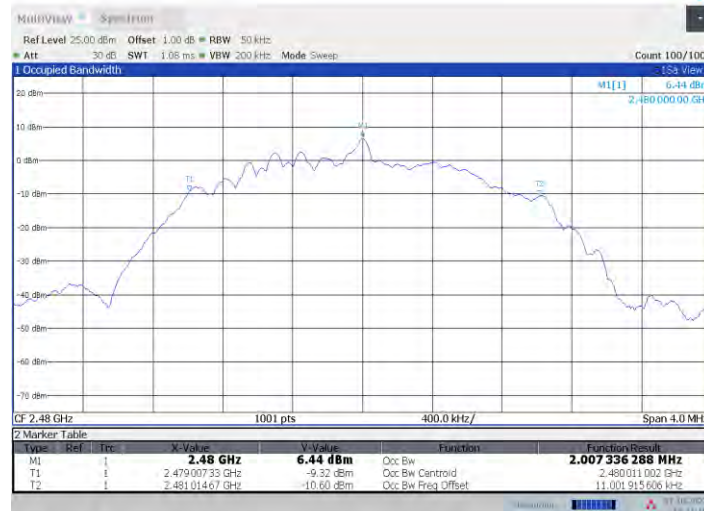
Page: 43 of 118

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Rev.: 01

Page: 44 of 118

Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant7	2402	8.04	≤30	PASS
		2440	9.75	≤30	PASS
		2480	7.69	≤30	PASS
BLE_2M	Ant7	2402	8.2	≤30	PASS
		2440	9.98	≤30	PASS
		2480	7.89	≤30	PASS

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant8	2402	8.89	≤30	PASS
		2440	10.34	≤30	PASS
		2480	7.62	≤30	PASS
BLE_2M	Ant8	2402	8.83	≤30	PASS
		2440	10.3	≤30	PASS
		2480	7.79	≤30	PASS



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 45 of 118

Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant7	2402	-6.8	≤8.00	PASS
		2440	-4.96	≤8.00	PASS
		2480	-7.21	≤8.00	PASS
BLE_2M	Ant7	2402	-9.45	≤8.00	PASS
		2440	-7.62	≤8.00	PASS
		2480	-9.92	≤8.00	PASS

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant8	2402	-5.73	≤8.00	PASS
		2440	-3.87	≤8.00	PASS
		2480	-6.92	≤8.00	PASS
BLE_2M	Ant8	2402	-8.44	≤8.00	PASS
		2440	-6.6	≤8.00	PASS
		2480	-9.63	≤8.00	PASS



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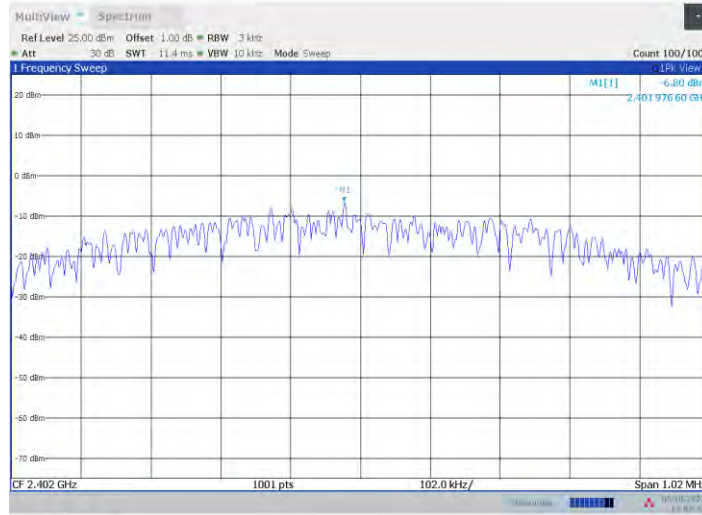
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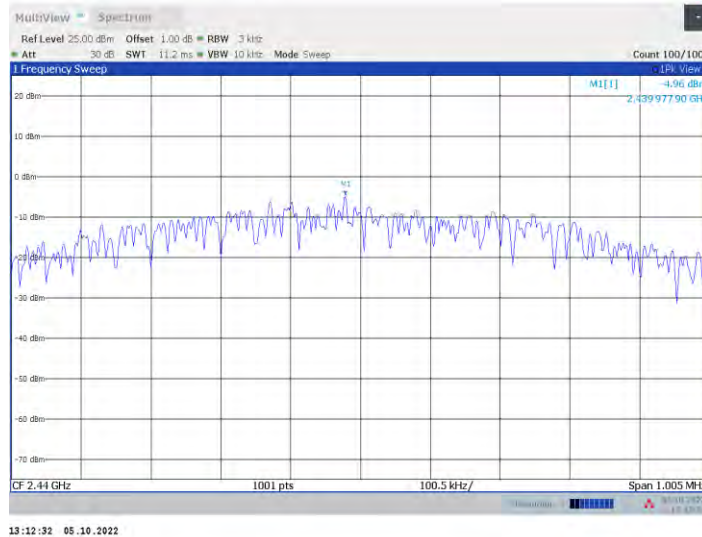
Page: 46 of 118

Test Graphs

BLE_1M_Ant7_2402



BLE_1M_Ant7_2440



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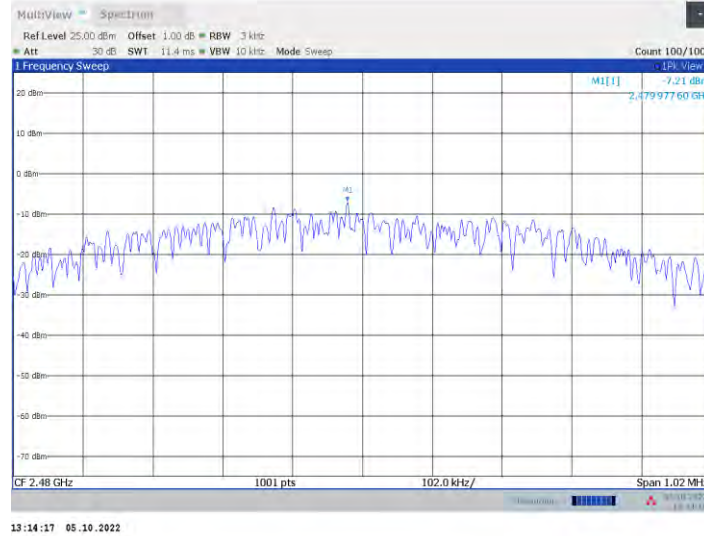
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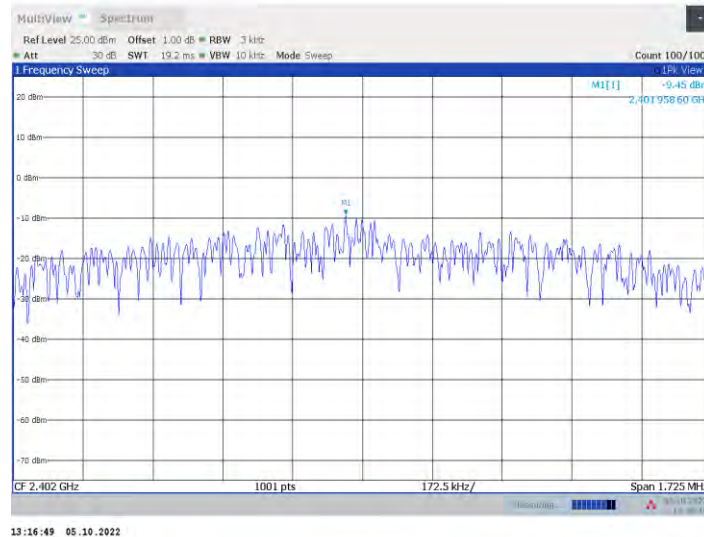
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BLE_1M_Ant7_2480



BLE_2M_Ant7_2402



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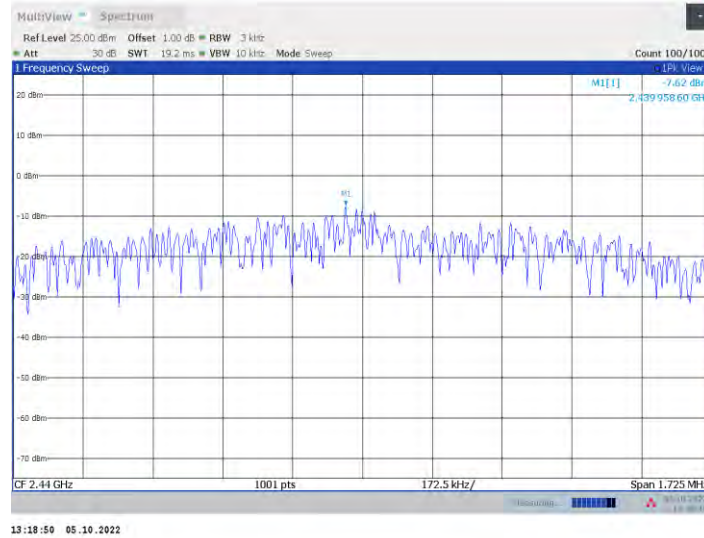
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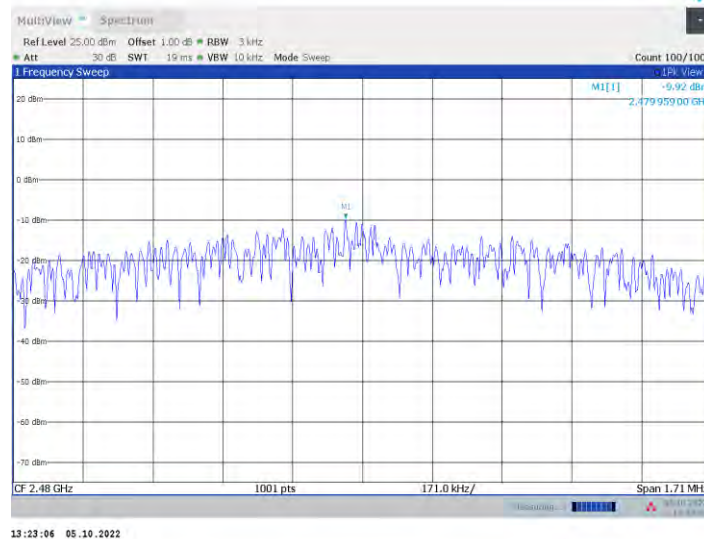
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Page: 48 of 118

BLE_2M_Ant7_2440



BLE_2M_Ant7_2480



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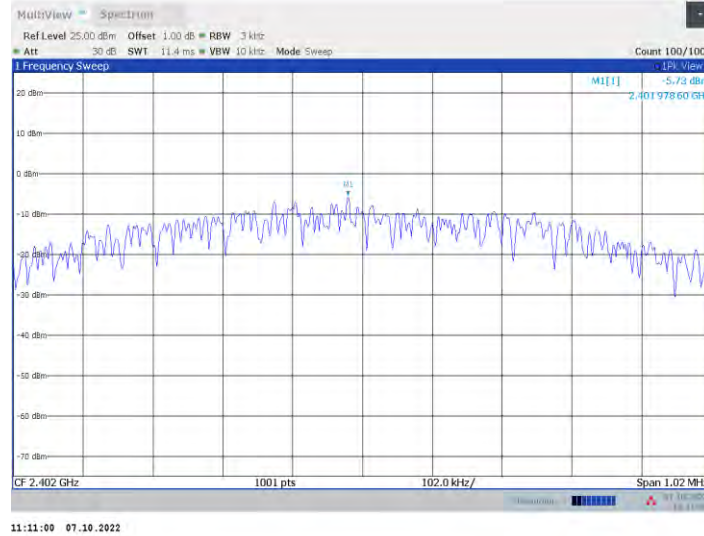
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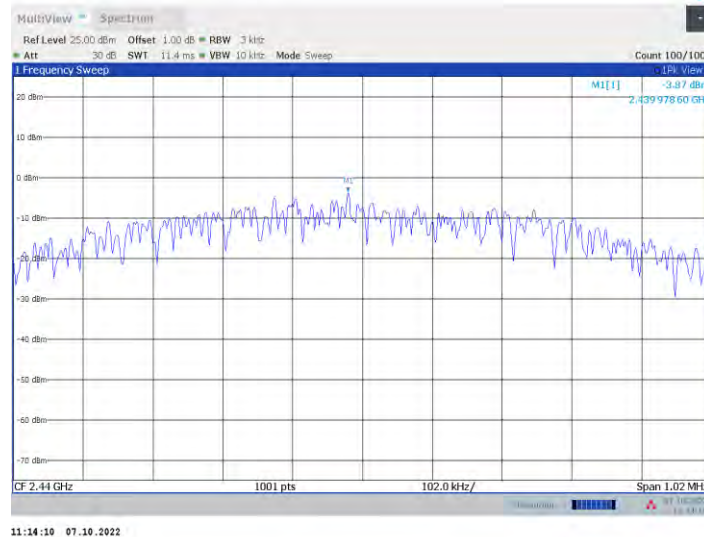
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BLE_1M_Ant8_2402



BLE_1M_Ant8_2440



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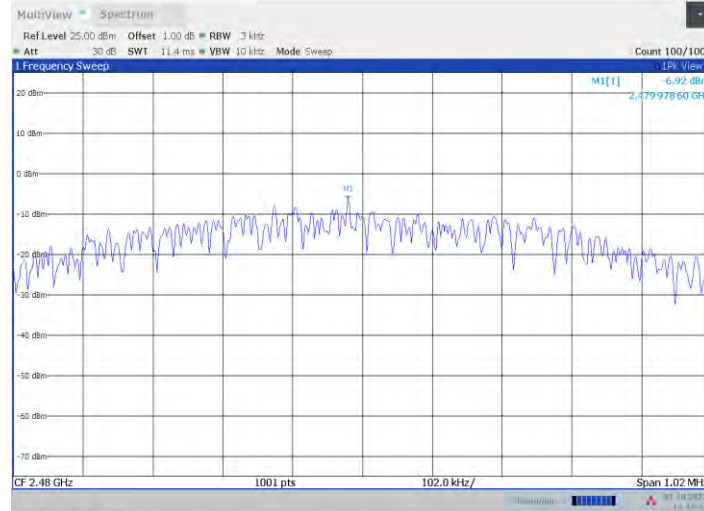
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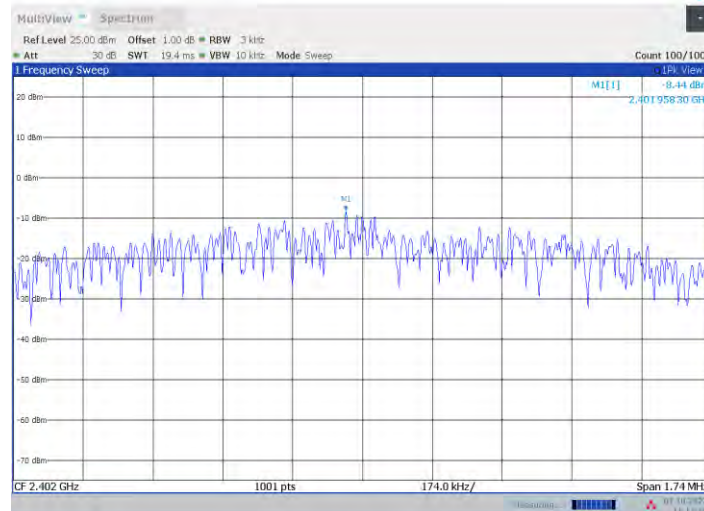
Page: 50 of 118

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11:15:52 07.10.2022

BLE_2M_Ant8_2402



11:17:50 07.10.2022



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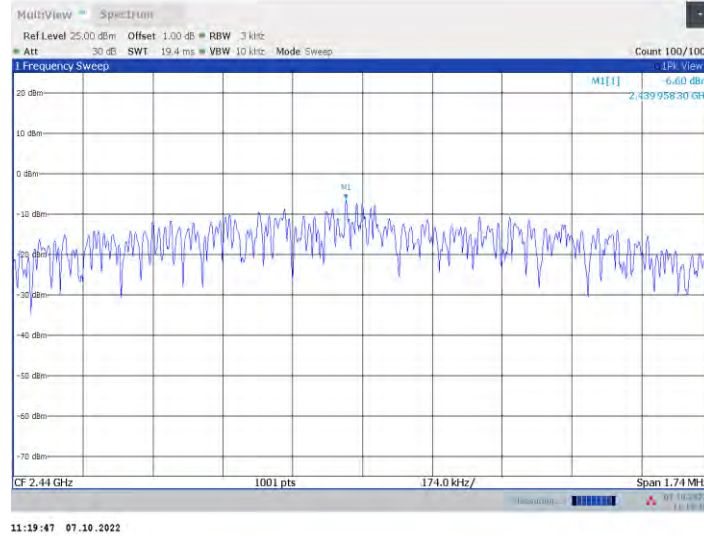
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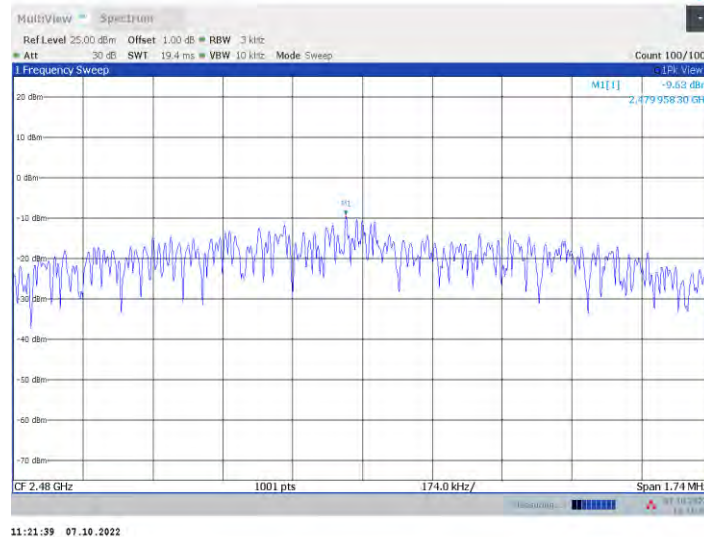
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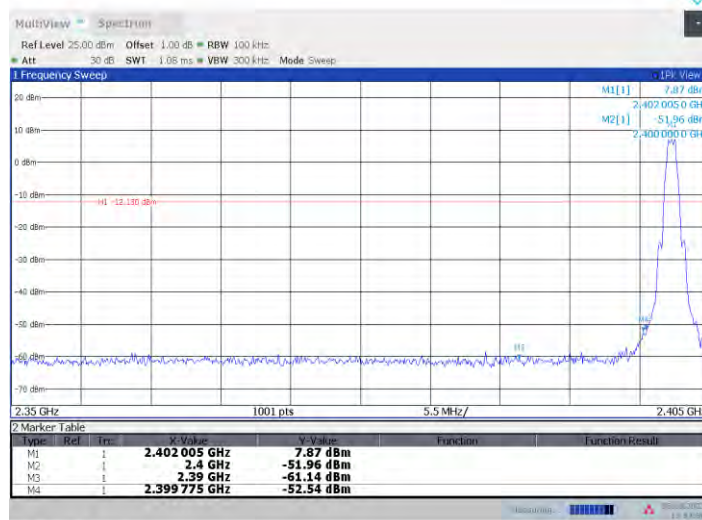
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Page: 52 of 118

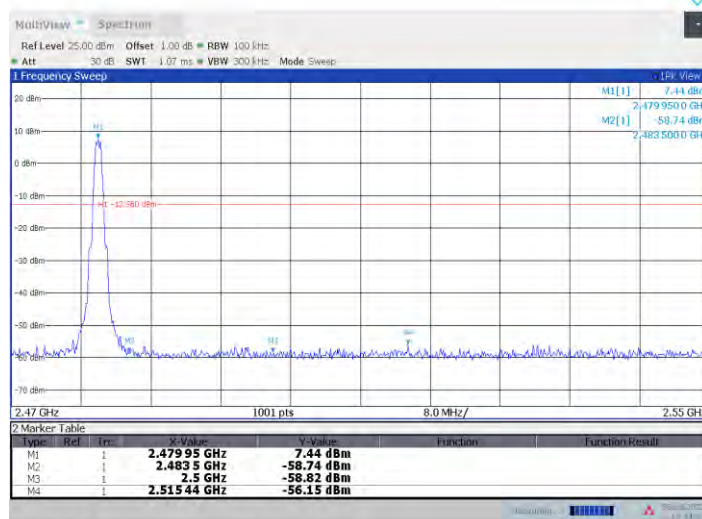
Band edge measurements Test Graphs

BLE 1M Ant7 Low 2402



13:07:58 05.10.2022

BLE 1M Ant7 High 2480



13:14:32 05.10.2022



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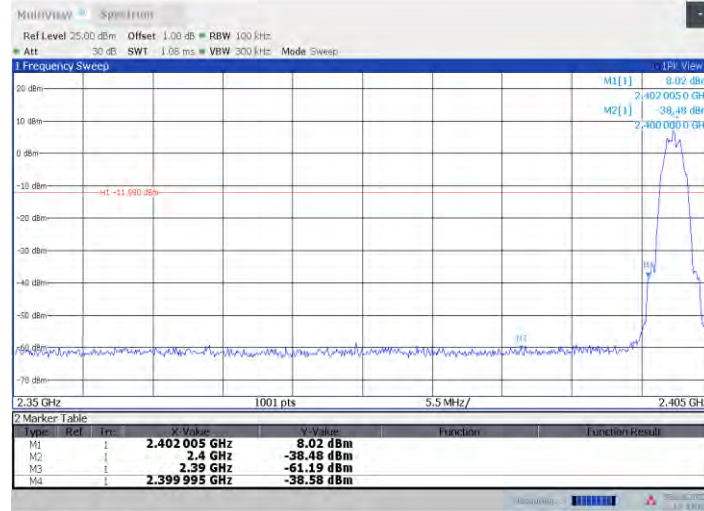
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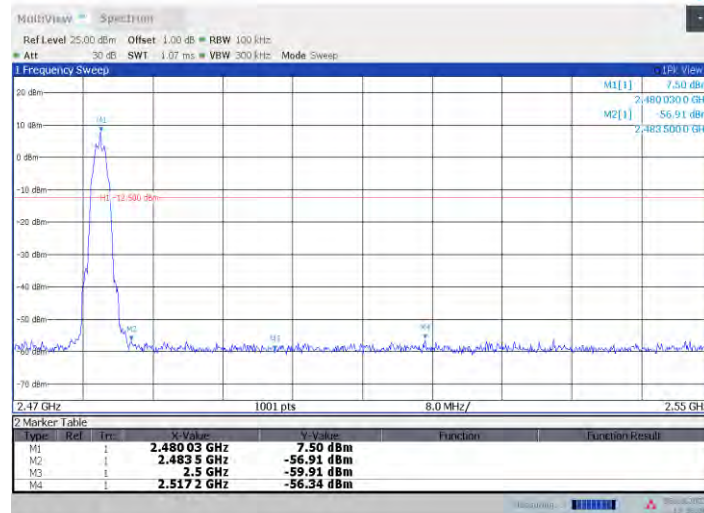
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BLE 2M Ant7 Low 2402



13:17:04 05.10.2022

BLE 2M Ant7 High 2480



13:23:21 05.10.2022



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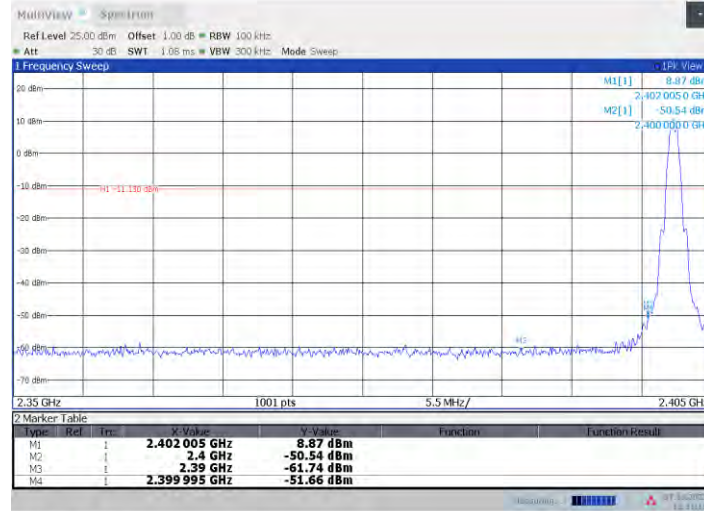
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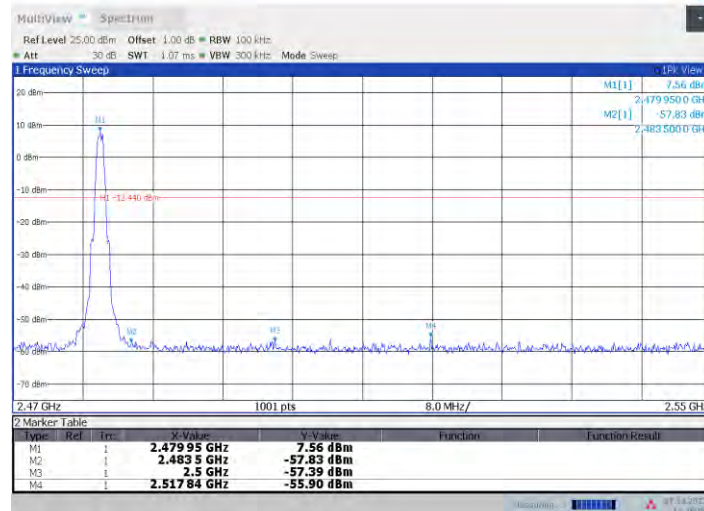
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BLE 1M Ant8 Low 2402



11:11:15 07.10.2022

BLE 1M Ant8 High 2480



11:16:06 07.10.2022



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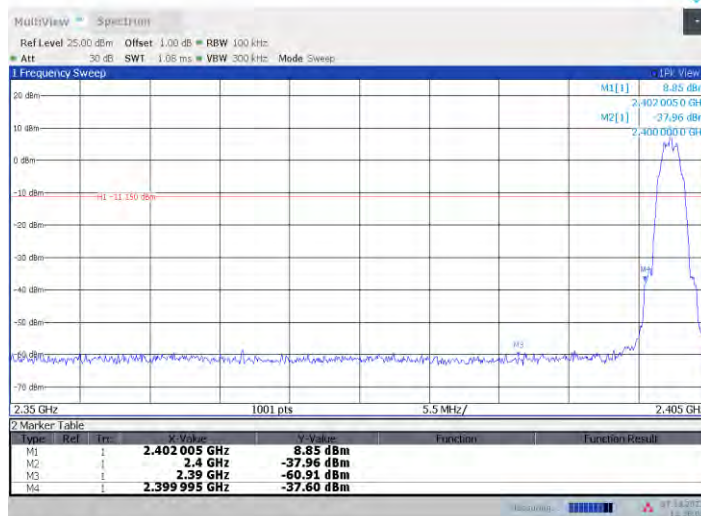
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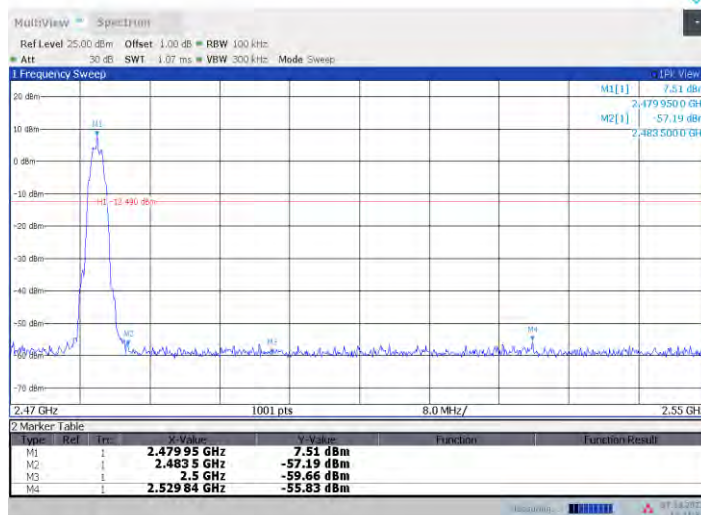
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11:18:05 07.10.2022

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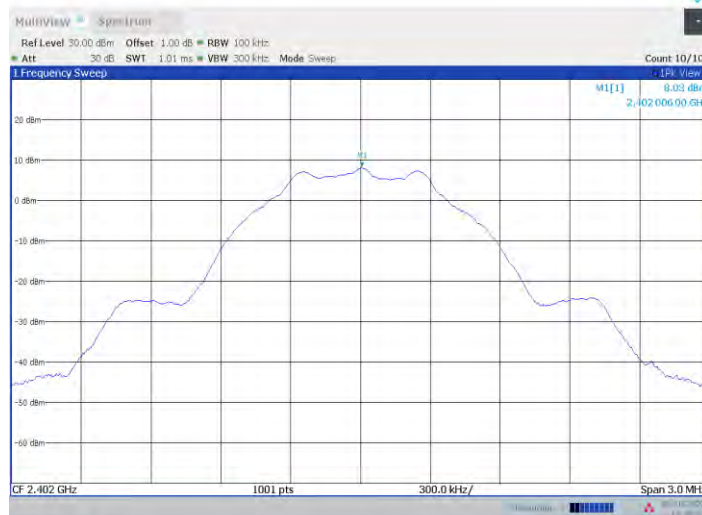
Report No.: SEWM2209000168RG04

Rev.: 01

Page: 56 of 118

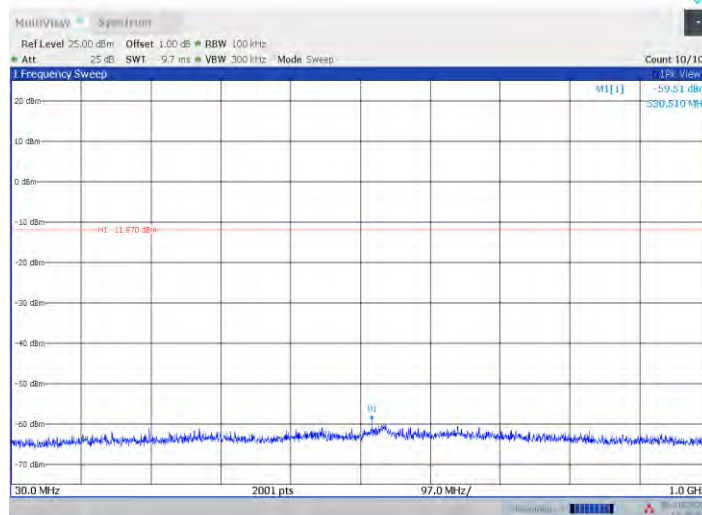
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13:10:37 05.10.2022

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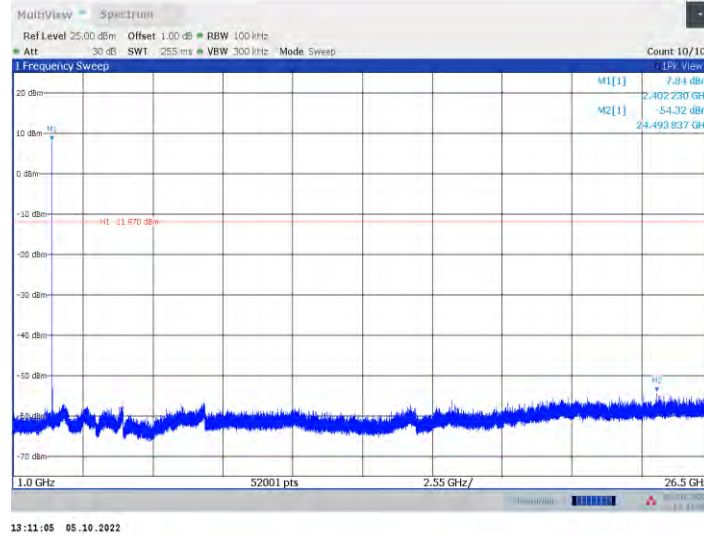
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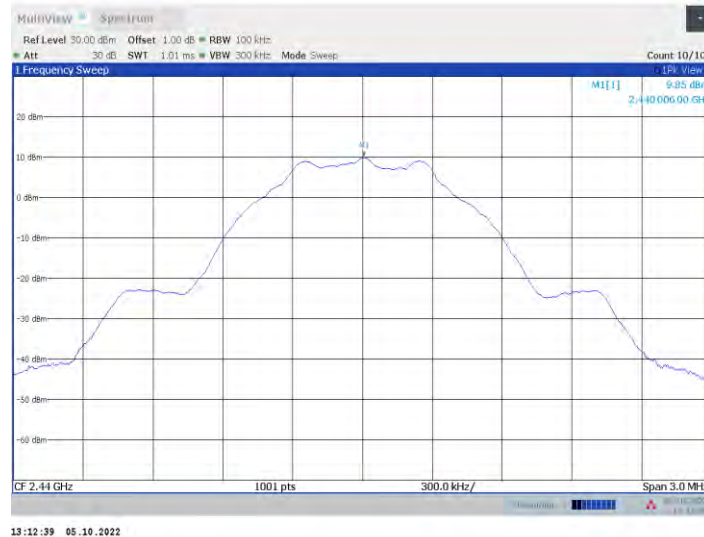
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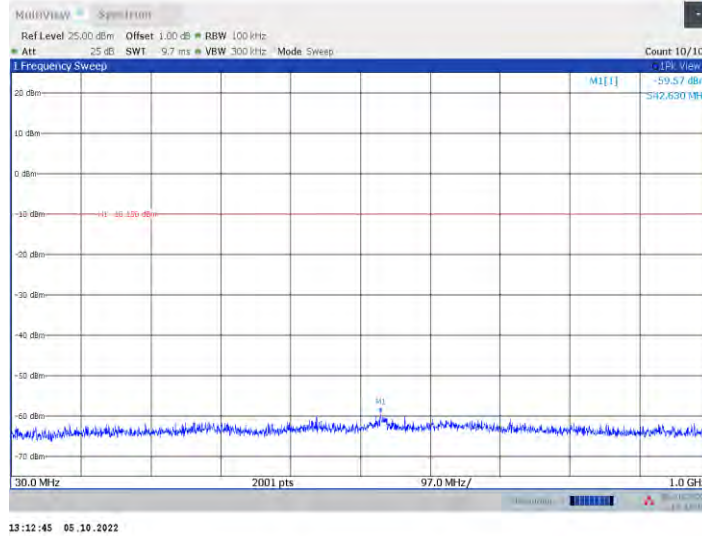
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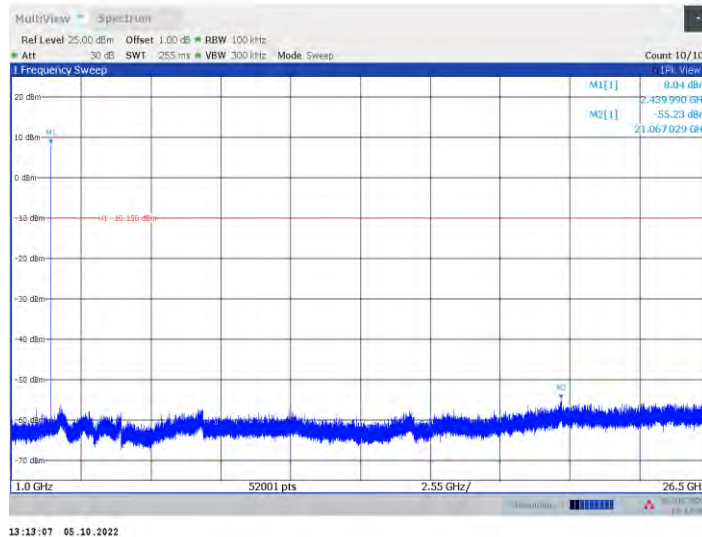
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BLE_1M_Ant7_2440_30~1000



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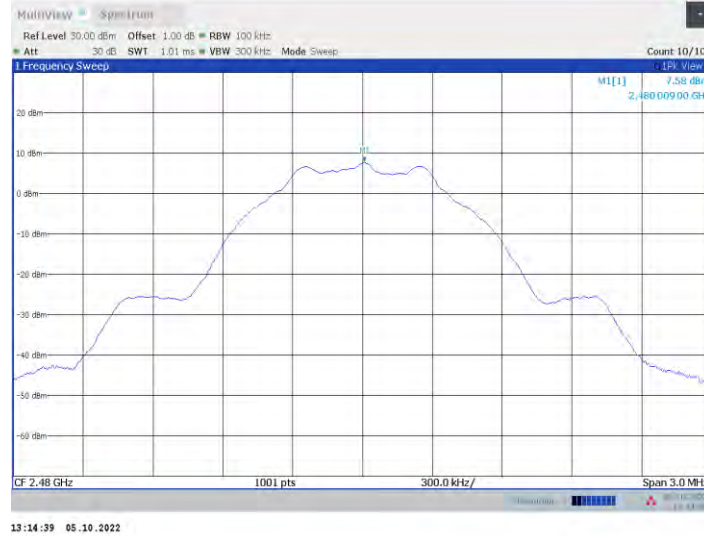
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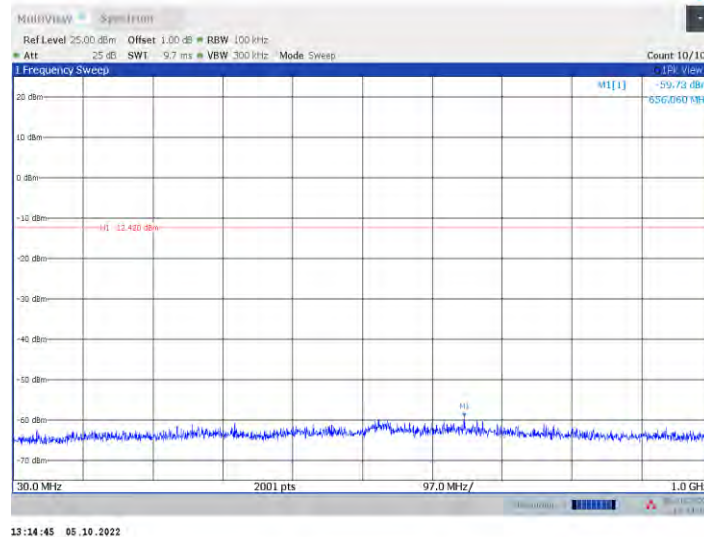
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BLE 1M Ant7 2480 0~Reference



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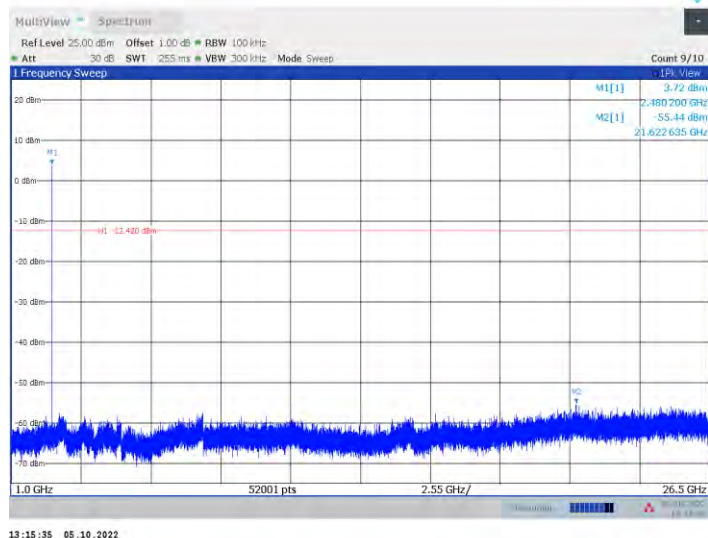
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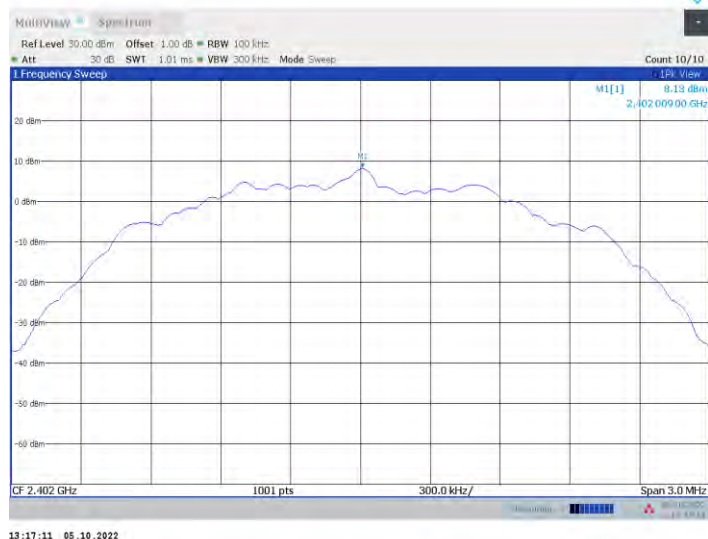
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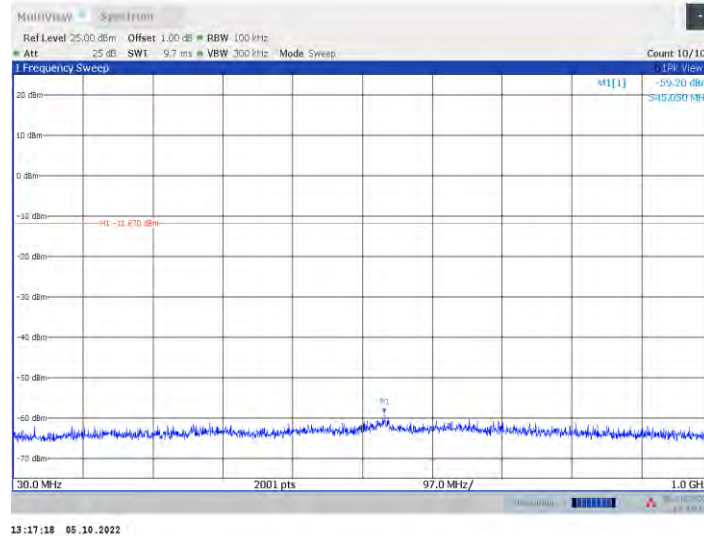
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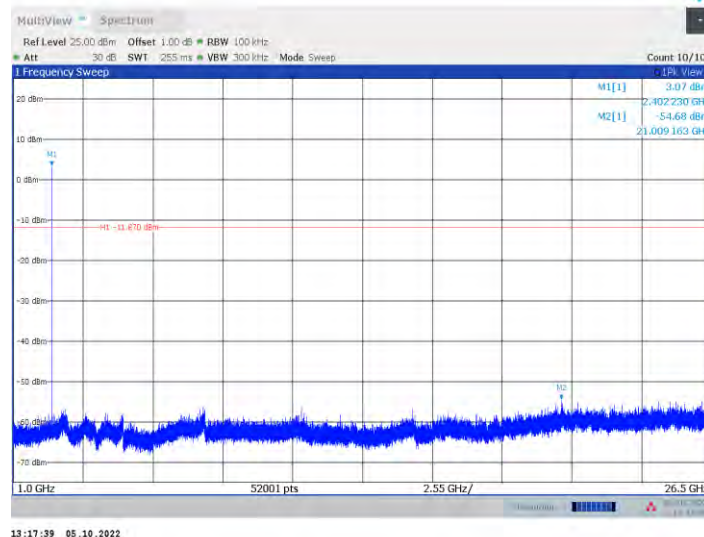
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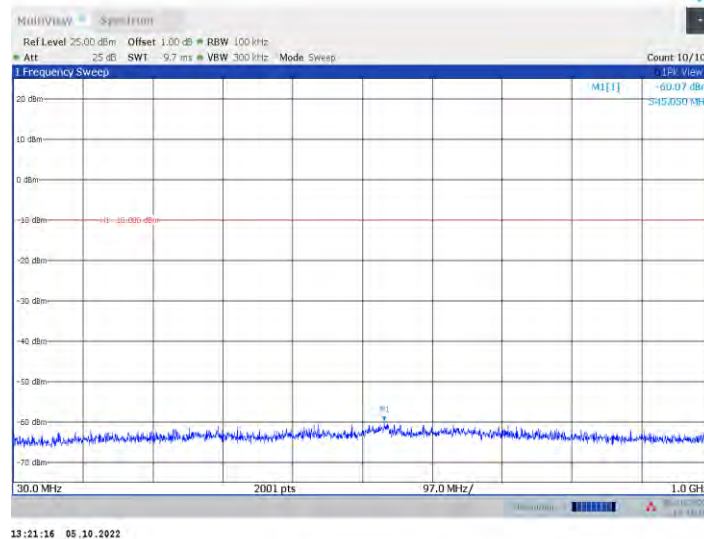
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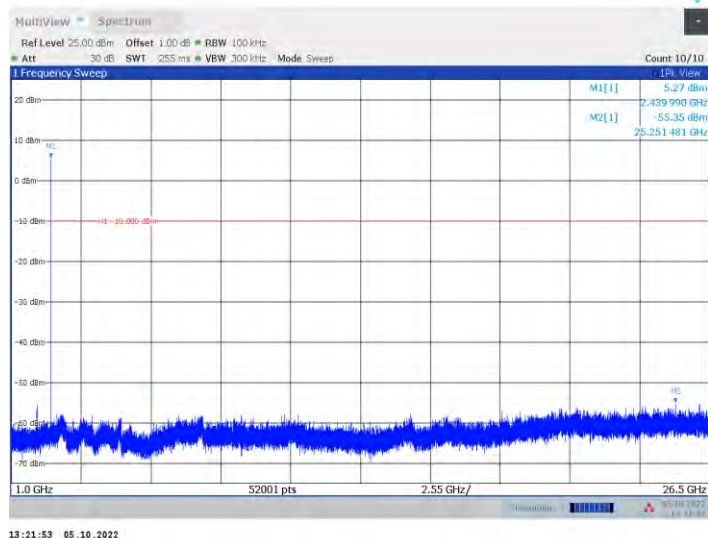
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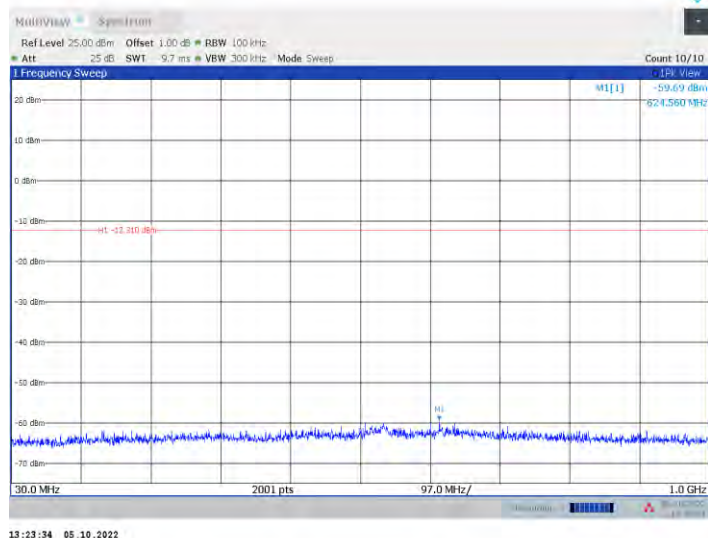
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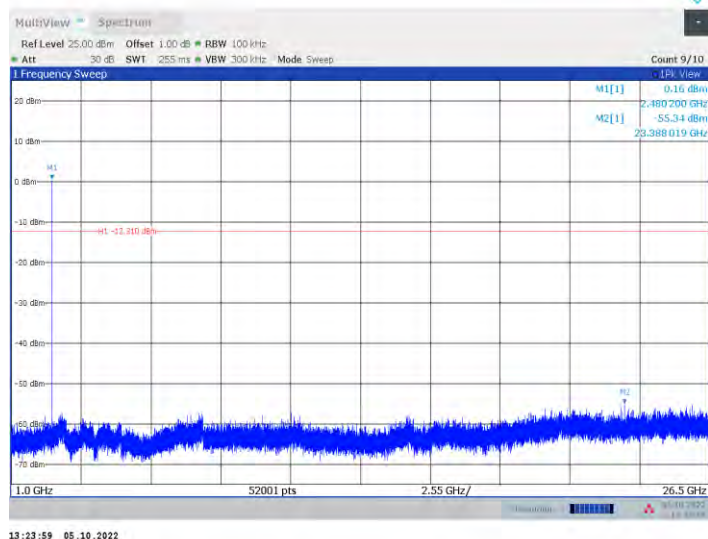
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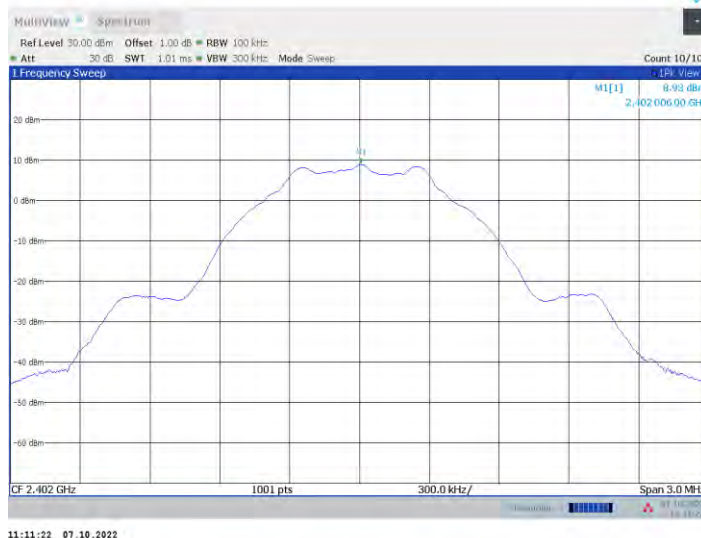
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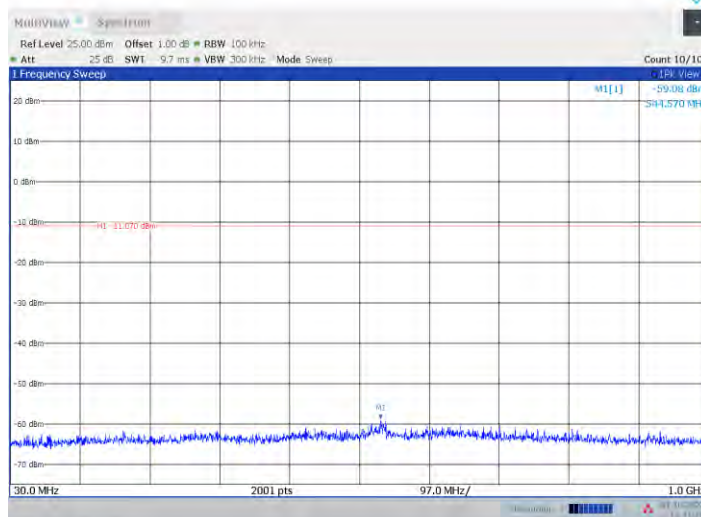
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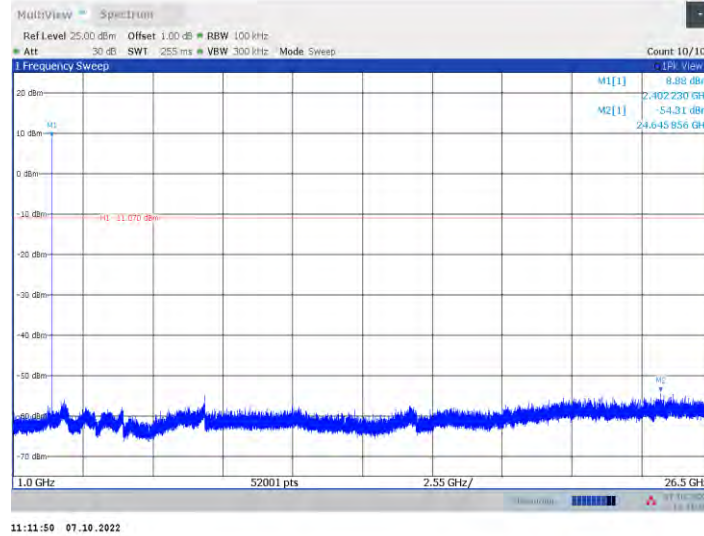
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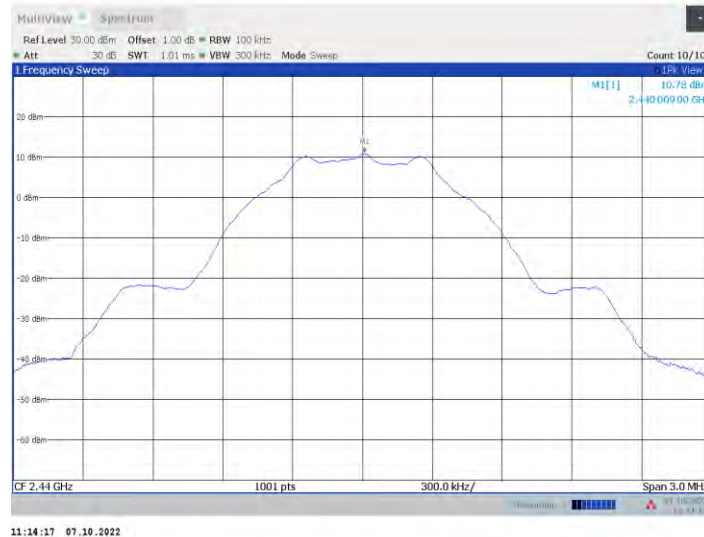
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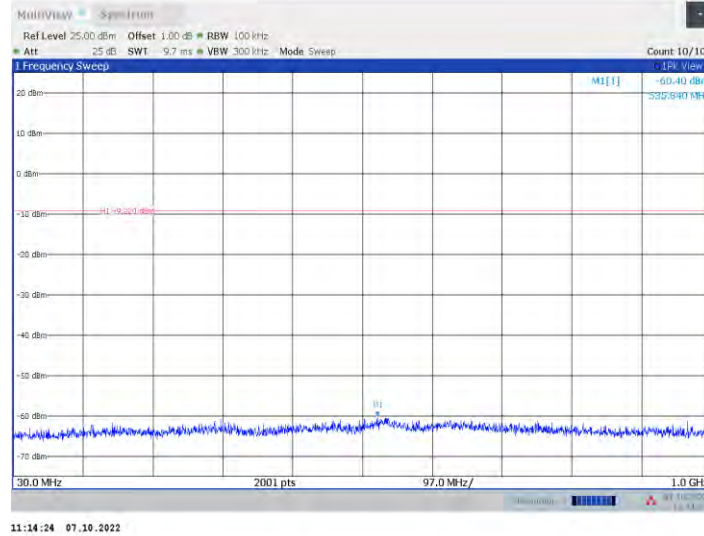
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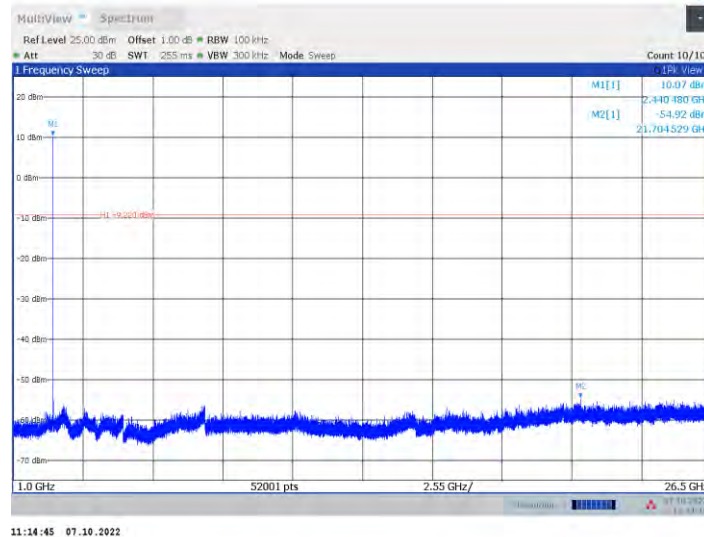
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Page: 67 of 118

BLE_1M_Ant8_2440_30~1000



BLE_1M_Ant8_2440_1000~26500



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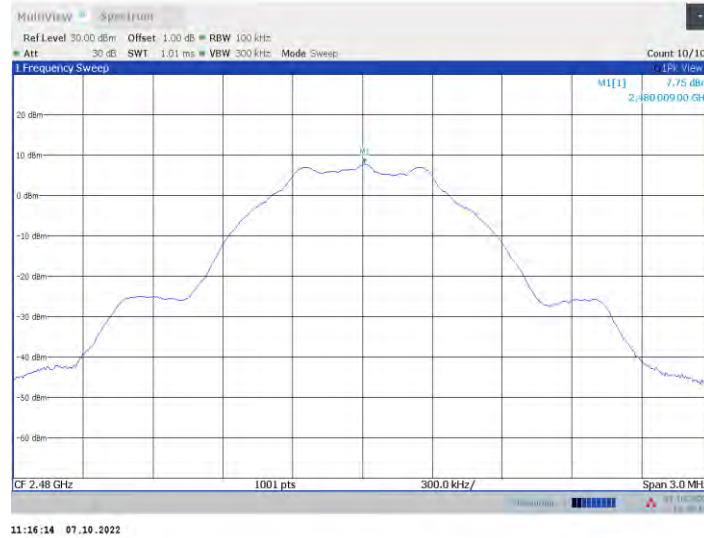
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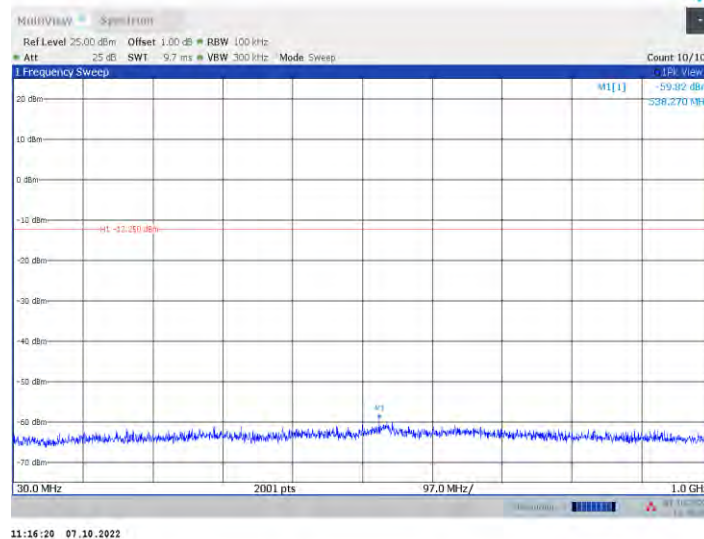
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Page: 68 of 118

BLE 1M Ant8 2480 0~Reference



BLE 1M Ant8 2480 30~1000



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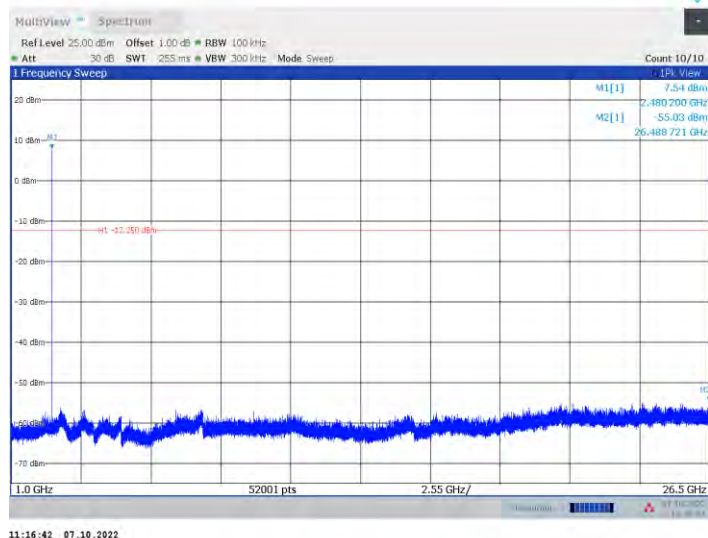
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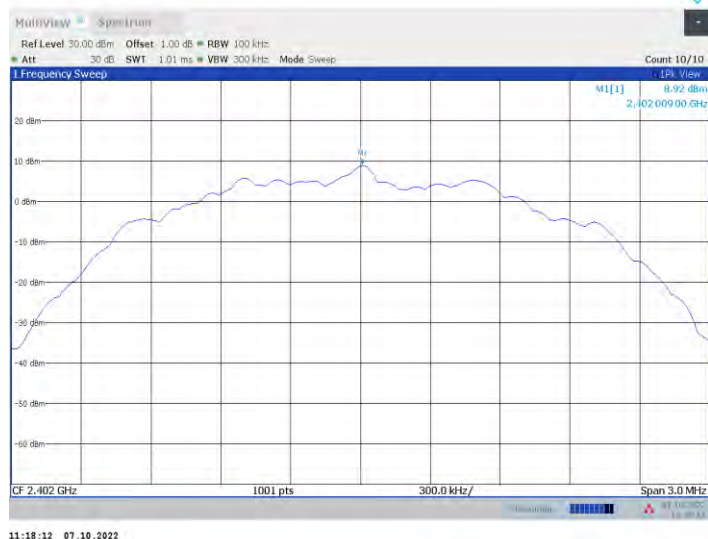
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Page: 69 of 118

BLE 1M Ant8 2480 1000~26500



BLE 2M Ant8 2402 0~Reference



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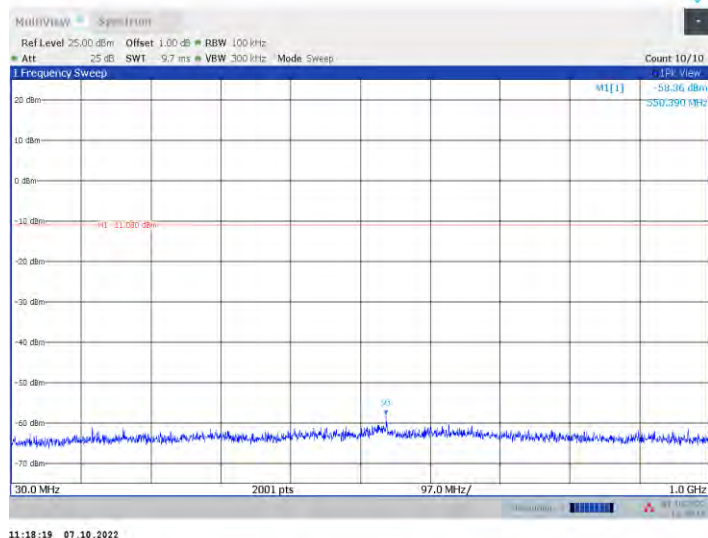
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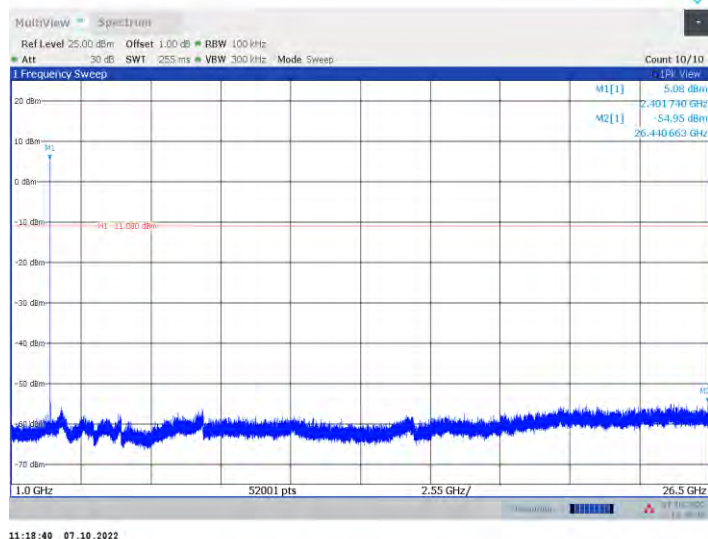
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BLE_2M_Ant8_2402_30~1000



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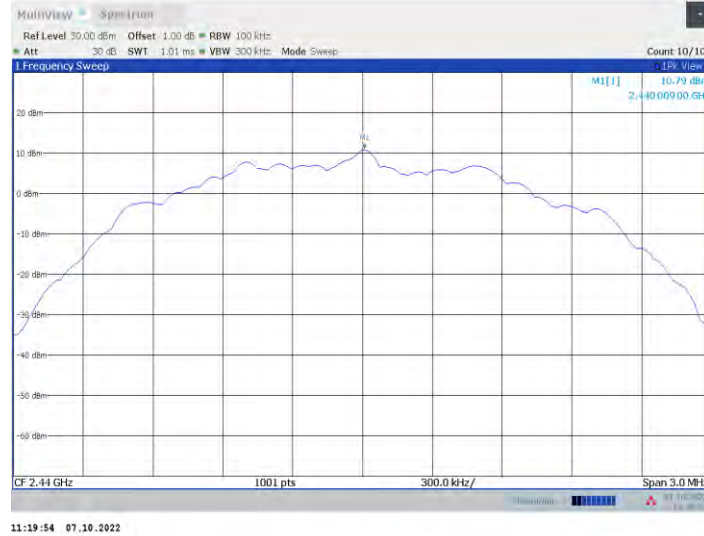
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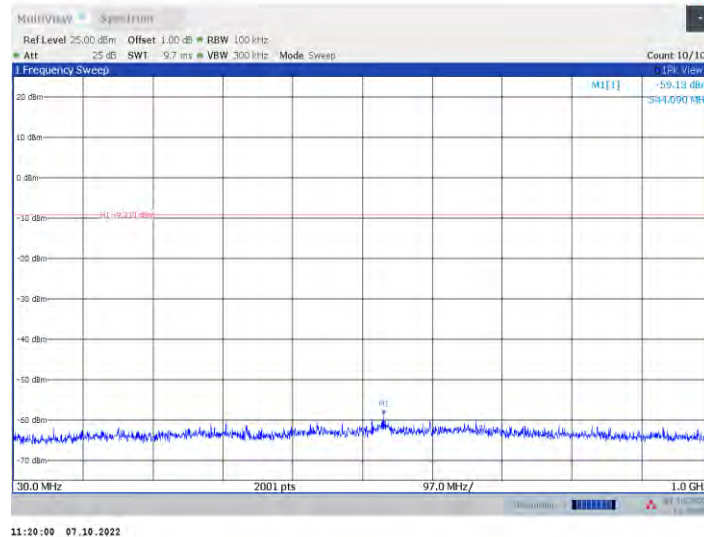
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BLE 2M Ant8 2440 0~Reference



BLE 2M Ant8 2440 30~1000



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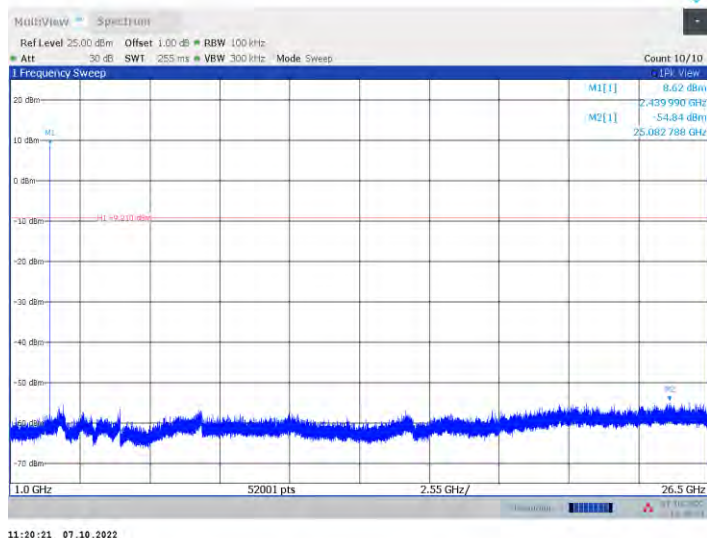
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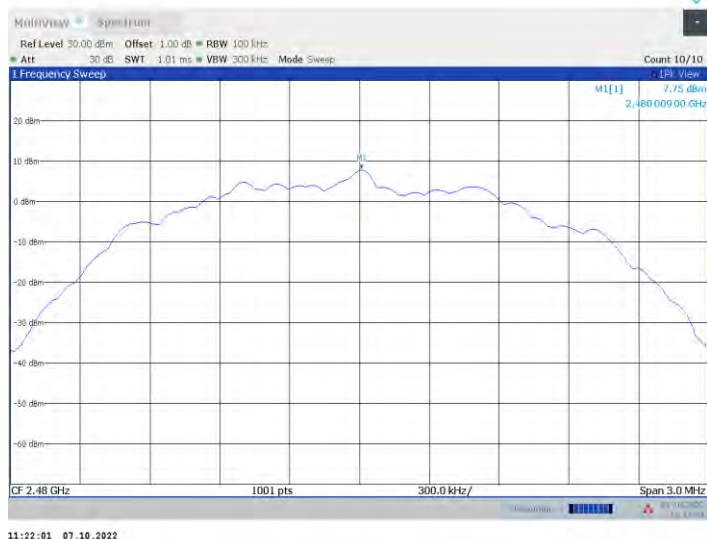
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BLE 2M Ant8 2440 1000~26500



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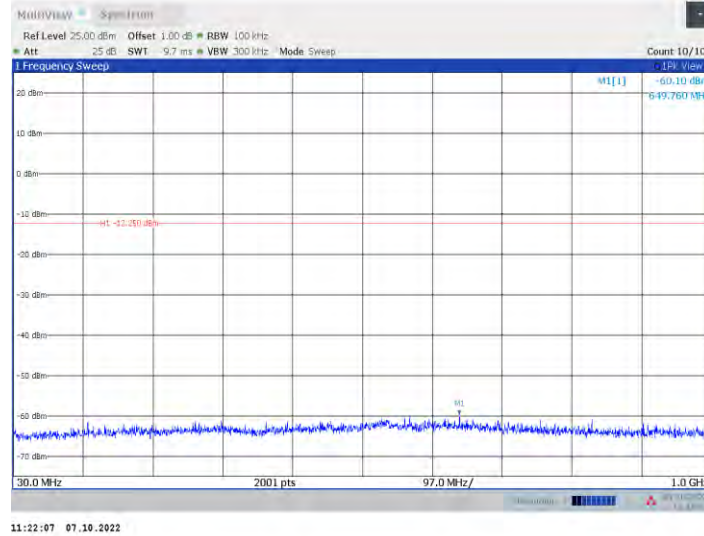
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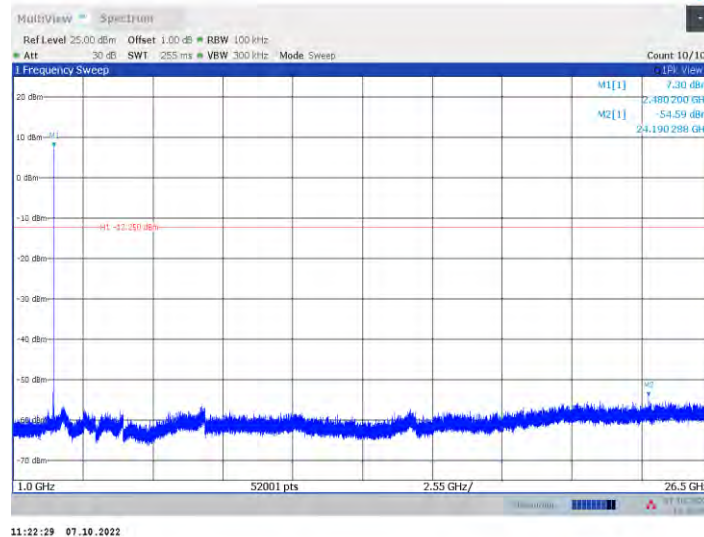
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BLE_2M_Ant8_2480_30~1000



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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 74 of 118

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant7	2402	0.39	0.63	61.90	2.08
BLE_2M	Ant7	2402	0.20	0.62	32.26	4.91

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant8	2402	0.39	0.63	61.90	2.08
BLE_2M	Ant8	2402	0.20	0.62	32.26	4.91



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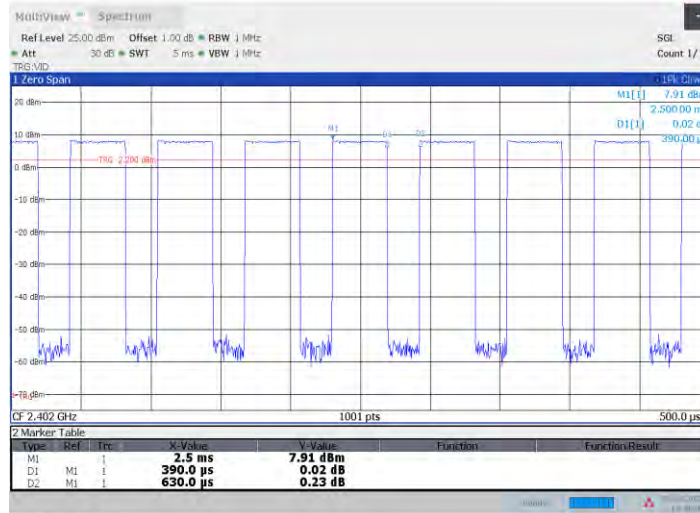
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Rev.: 01

Page: 75 of 118

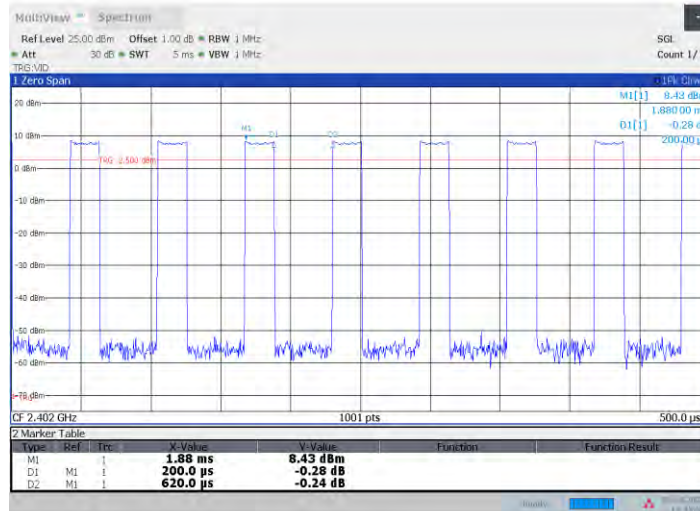
Test Graphs

BLE_1M_Ant7_2402



13:06:48 05.10.2022

BLE_2M_Ant7_2402



13:15:54 05.10.2022



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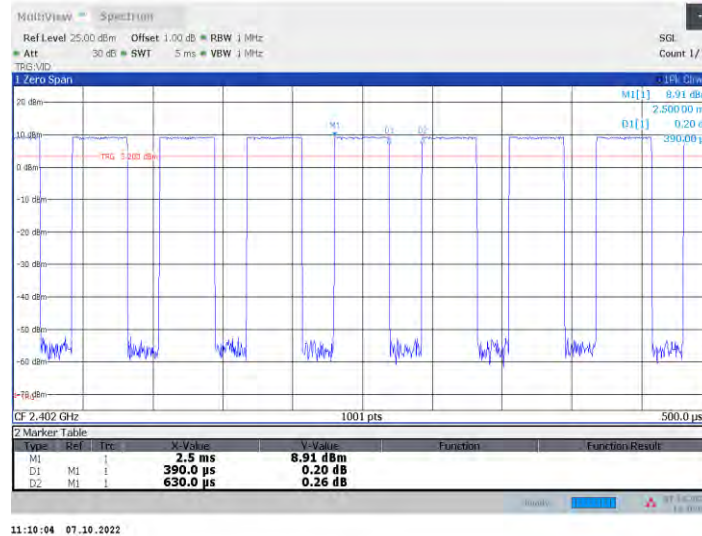
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Rev.: 01

Page: 76 of 118

BLE_1M_Ant8_2402



11:10:04 07.10.2022

BLE_2M_Ant8_2402



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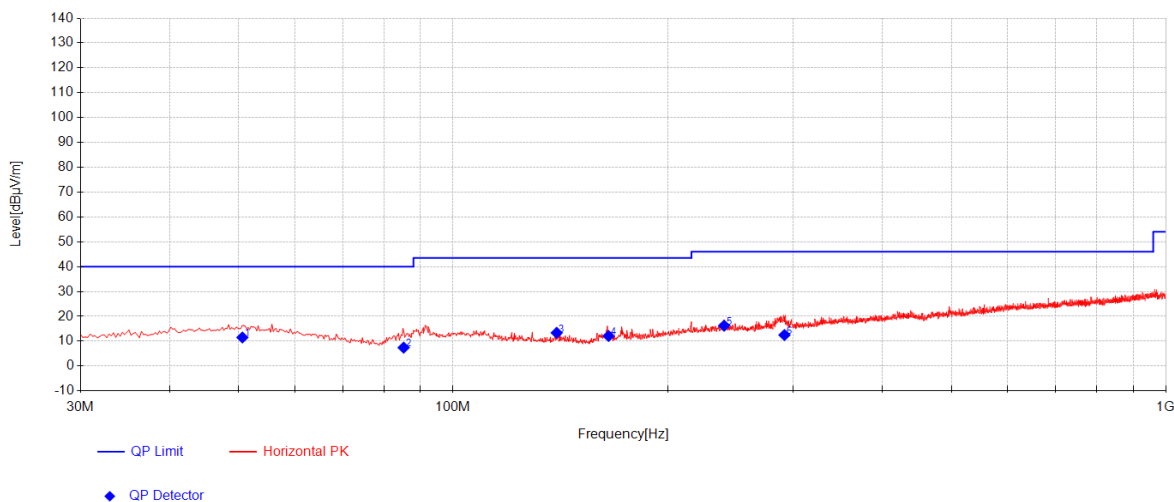
Report No.: SEWM2209000168RG04

Rev.: 01

Page: 77 of 118

Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M _ Channel 39

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	50.6364	25.89	-27.98	13.59	11.50	40.00	28.50	106	325	Horizontal
2	85.2469	26.95	-27.80	8.26	7.41	40.00	32.59	193	356	Horizontal
3	139.7757	32.98	-27.14	7.53	13.37	43.50	30.13	120	109	Horizontal
4	165.2666	30.86	-26.62	7.85	12.09	43.50	31.41	190	150	Horizontal
5	240.0467	30.63	-26.20	11.82	16.25	46.00	29.75	220	360	Horizontal
6	291.6579	25.52	-26.14	13.11	12.49	46.00	33.51	120	260	Horizontal



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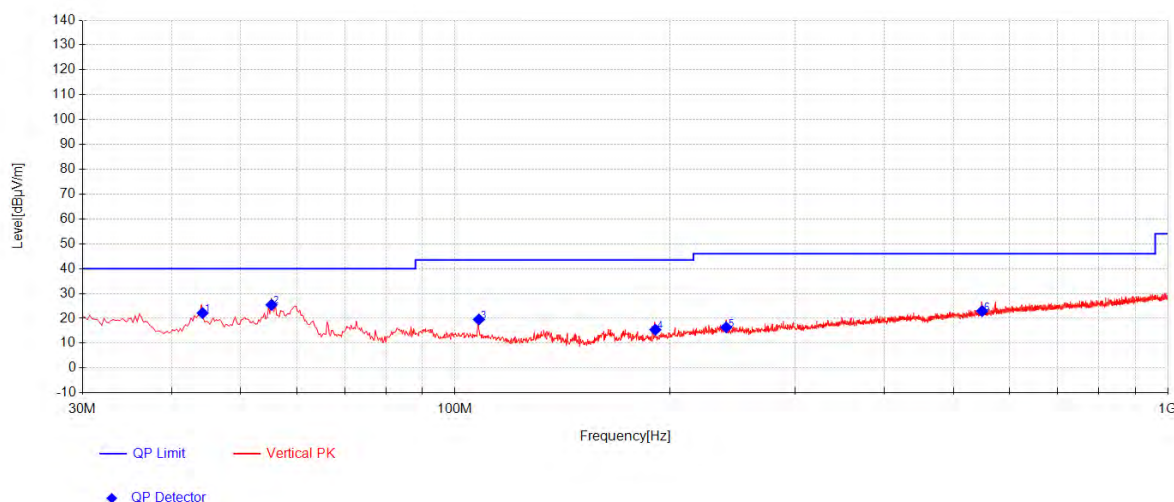
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Page: 78 of 118



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	44.2436	37.26	-28.05	12.91	22.12	40.00	17.88	265	186	Vertical
2	55.2799	40.70	-27.81	12.55	25.44	40.00	14.56	214	225	Vertical
3	108.0033	36.23	-27.41	10.72	19.54	43.50	23.96	102	11	Vertical
4	190.9509	33.05	-27.22	9.61	15.44	43.50	28.06	122	177	Vertical
5	240.0502	30.76	-26.20	11.82	16.38	46.00	29.62	102	16	Vertical
6	548.7315	29.74	-24.51	17.69	22.92	46.00	23.08	169	336	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

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

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

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

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



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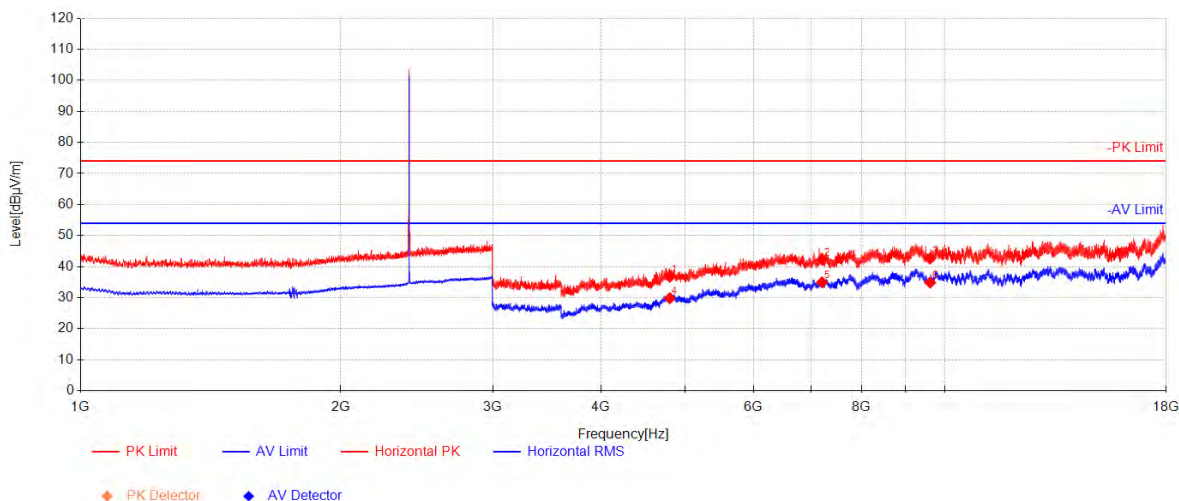
Report No.: SEWM2209000168RG04

Rev.: 01

Page: 79 of 118

Transmitter emission Above 1GHz

BLE 1M_Channel 00 ANT7



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	49.06	32.13	-44.46	36.73	74.00	37.27	265	5	Horizontal
2	7206	48.18	36.32	-42.23	42.28	74.00	31.72	241	316	Horizontal
3	9608	42.14	38.54	-38.05	42.63	74.00	31.37	142	188	Horizontal
4	4804	42.15	32.13	-44.46	29.82	54.00	24.18	286	273	Horizontal
5	7206	40.85	36.32	-42.23	34.95	54.00	19.05	322	212	Horizontal
6	9608	34.39	38.54	-38.05	34.88	54.00	19.12	241	20	Horizontal



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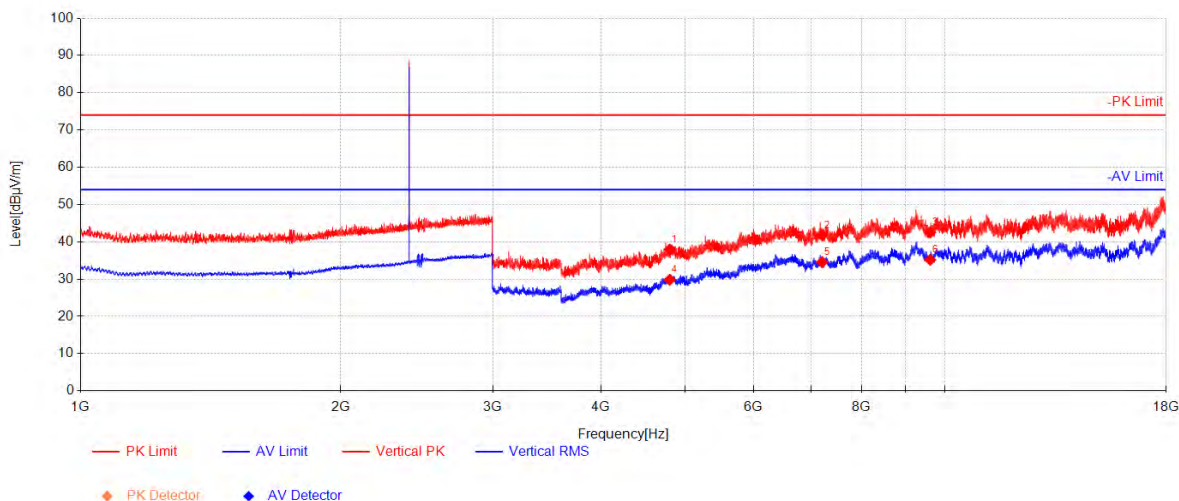
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 80 of 118

BLE 1M_Channel 00 ANT7



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	50.30	32.13	-44.46	37.97	74.00	36.03	265	1	Vertical
2	7206	47.63	36.32	-42.23	41.73	74.00	32.27	241	211	Vertical
3	9608	42.01	38.54	-38.05	42.50	74.00	31.50	142	148	Vertical
4	4804	42.17	32.13	-44.46	29.84	54.00	24.16	285	274	Vertical
5	7206	40.45	36.32	-42.23	34.55	54.00	19.45	263	189	Vertical
6	9608	34.69	38.54	-38.05	35.18	54.00	18.82	295	40	Vertical



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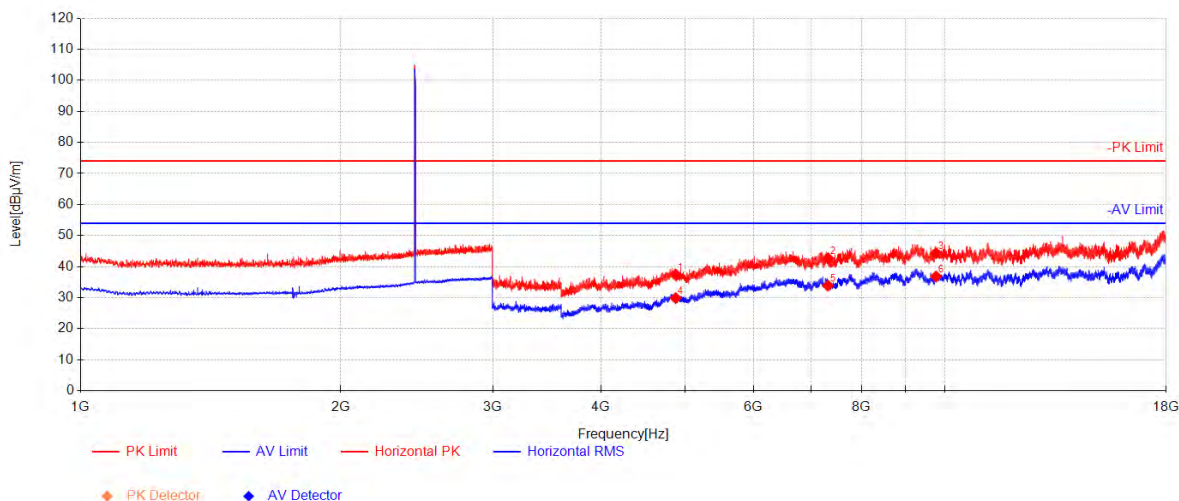
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 81 of 118

BLE 1M_Channel 19 ANT7



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	49.96	32.31	-44.79	37.48	74.00	36.52	265	0	Horizontal
2	7320	48.09	36.39	-41.80	42.68	74.00	31.32	241	1	Horizontal
3	9760	43.31	38.52	-37.51	44.33	74.00	29.67	178	252	Horizontal
4	4880	42.37	32.31	-44.79	29.89	54.00	24.11	263	61	Horizontal
5	7320	39.30	36.39	-41.80	33.89	54.00	20.11	265	40	Horizontal
6	9760	35.83	38.52	-37.51	36.85	54.00	17.15	241	188	Horizontal



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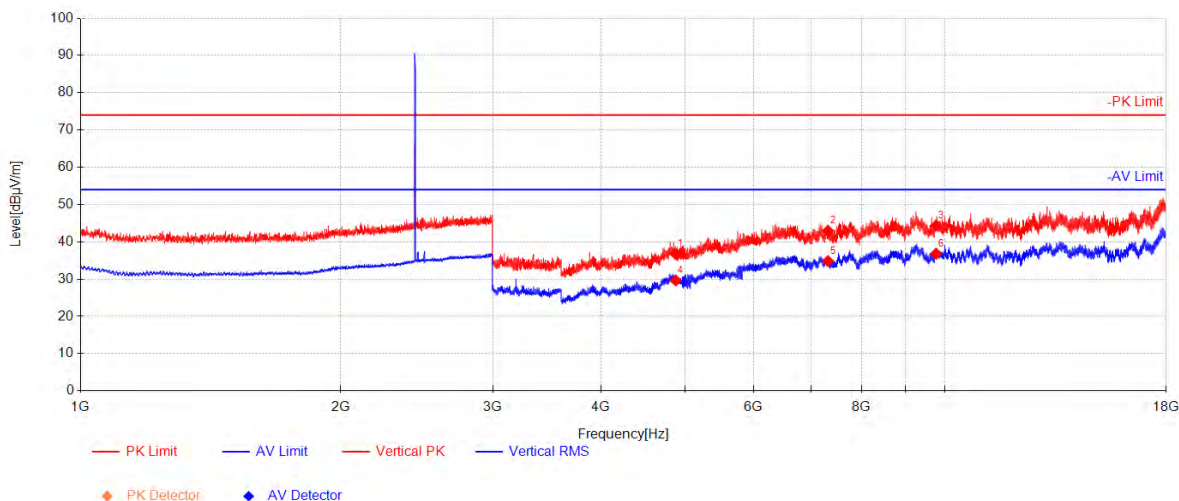
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Rev.: 01

Page: 82 of 118

BLE 1M_Channel 19 ANT7



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	49.22	32.31	-44.79	36.74	74.00	37.26	265	272	Vertical
2	7320	48.38	36.39	-41.80	42.97	74.00	31.03	241	0	Vertical
3	9760	43.36	38.52	-37.51	44.38	74.00	29.62	178	335	Vertical
4	4880	42.12	32.31	-44.79	29.64	54.00	24.36	263	0	Vertical
5	7320	40.25	36.39	-41.80	34.84	54.00	19.16	255	3	Vertical
6	9760	35.77	38.52	-37.51	36.79	54.00	17.21	241	101	Vertical



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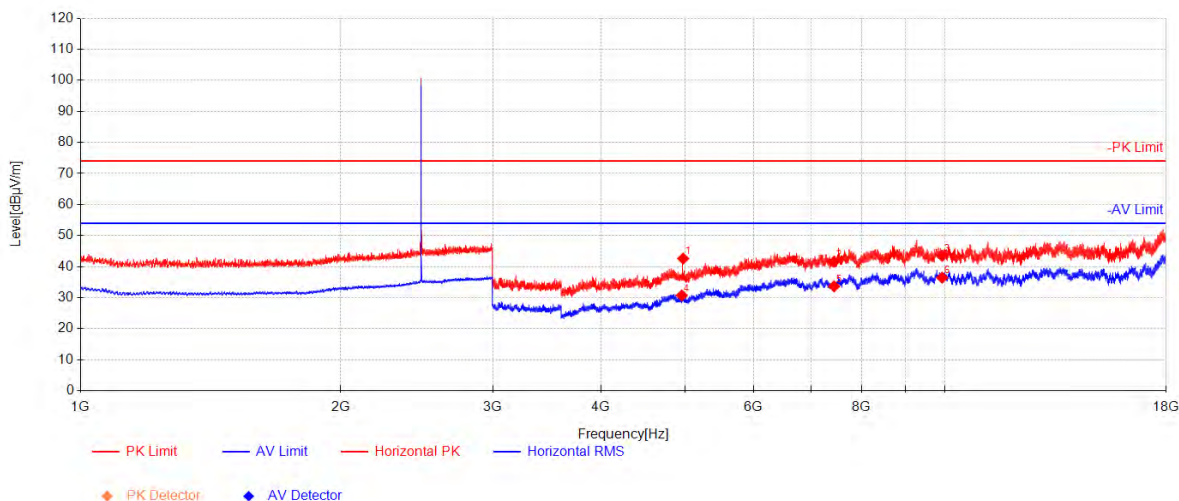
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 83 of 118

BLE 1M_Channel 39 ANT7



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	4978.125	54.98	32.55	-44.93	42.60	74.00	31.40	296	338	Horizontal
2	7440	46.98	36.46	-41.83	41.62	74.00	32.38	265	358	Horizontal
3	9920	42.18	38.51	-37.22	43.47	74.00	30.53	241	0	Horizontal
4	4960	43.16	32.50	-44.92	30.75	54.00	23.25	175	84	Horizontal
5	7440	39.03	36.46	-41.83	33.67	54.00	20.33	266	126	Horizontal
6	9920	35.18	38.51	-37.22	36.47	54.00	17.53	254	358	Horizontal



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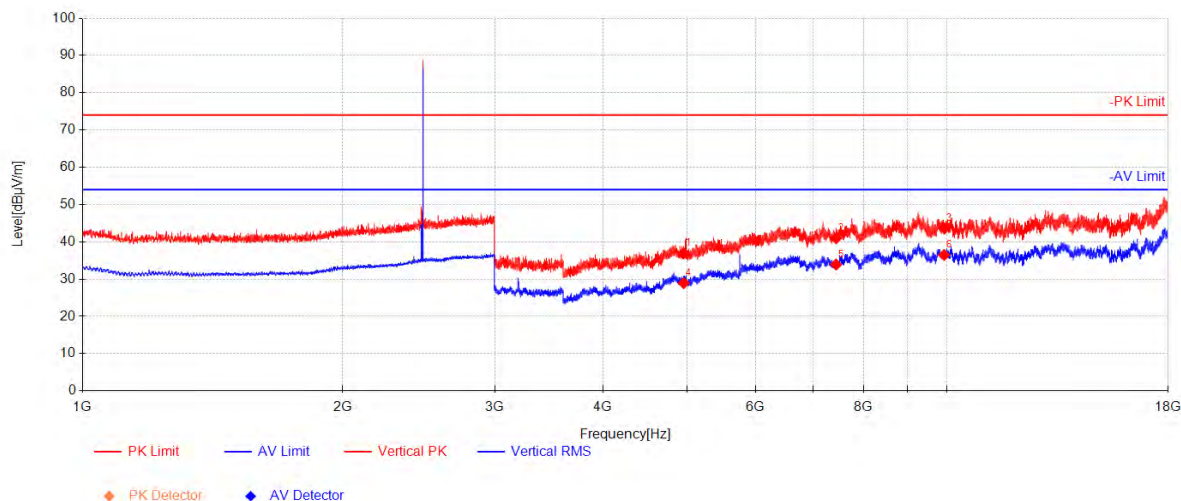
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Rev.: 01

Page: 84 of 118

BLE 1M_Channel 39 ANT7



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	49.34	32.50	-44.92	36.93	74.00	37.07	201	228	Vertical
2	7440	46.33	36.46	-41.83	40.97	74.00	33.03	142	39	Vertical
3	9920	42.35	38.51	-37.22	43.64	74.00	30.36	263	4	Vertical
4	4960	41.34	32.50	-44.92	28.93	54.00	25.07	265	82	Vertical
5	7440	39.28	36.46	-41.83	33.92	54.00	20.08	284	228	Vertical
6	9920	35.17	38.51	-37.22	36.46	54.00	17.54	196	357	Vertical



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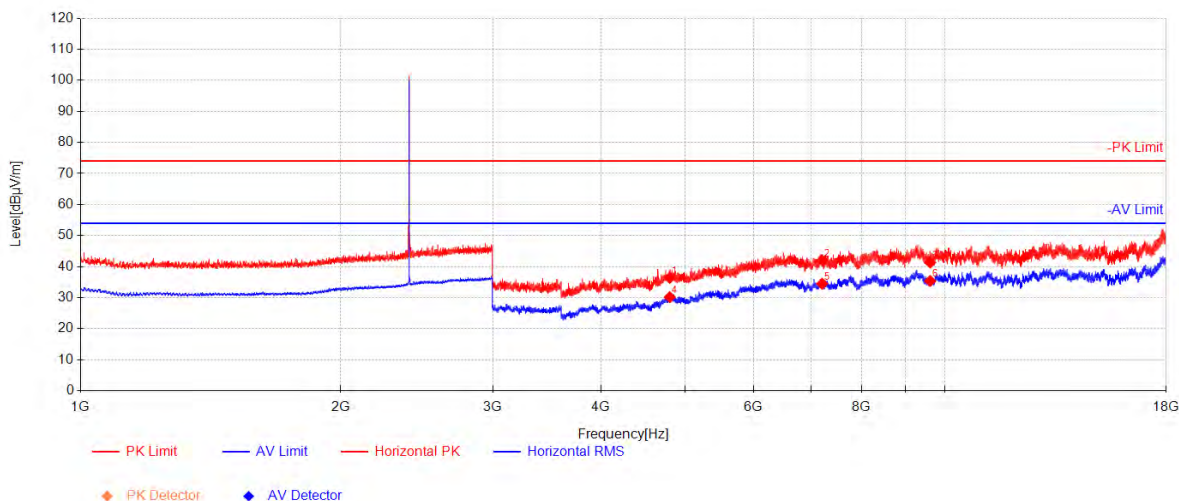
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Rev.: 01

Page: 85 of 118

BLE 1M_Channel 00 ANT8



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	48.74	32.13	-44.46	36.41	74.00	37.59	241	254	Horizontal
2	7206	47.93	36.32	-42.23	42.03	74.00	31.97	142	168	Horizontal
3	9608	40.85	38.54	-38.05	41.34	74.00	32.66	265	359	Horizontal
4	4804	42.50	32.13	-44.46	30.17	54.00	23.83	298	309	Horizontal
5	7206	40.39	36.32	-42.23	34.49	54.00	19.51	241	360	Horizontal
6	9608	34.91	38.54	-38.05	35.40	54.00	18.60	178	227	Horizontal



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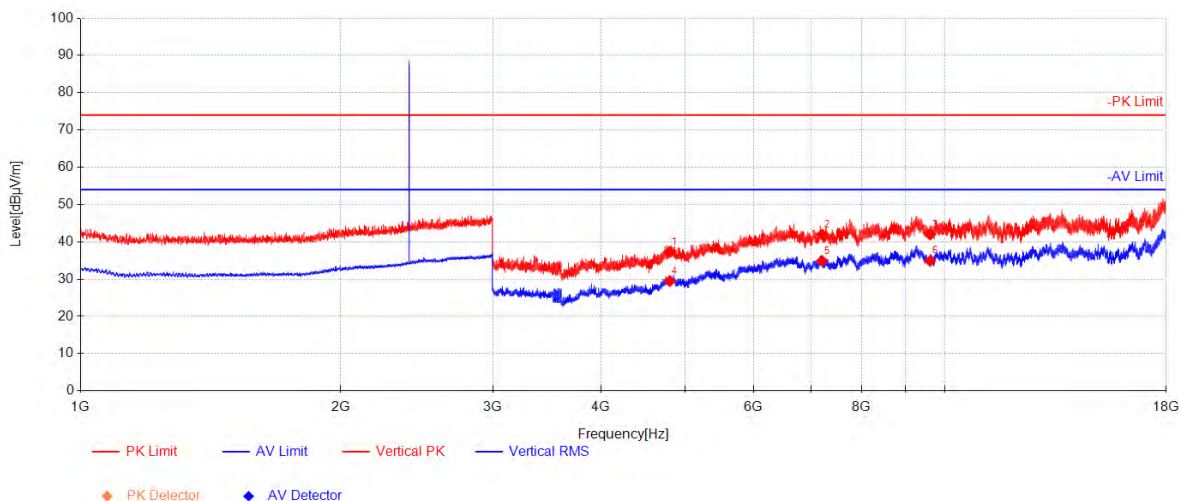
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 86 of 118

BLE 1M_Channel 00 ANT8



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	49.65	32.13	-44.46	37.32	74.00	36.68	241	0	Vertical
2	7206	47.84	36.32	-42.23	41.94	74.00	32.06	145	310	Vertical
3	9608	41.50	38.54	-38.05	41.99	74.00	32.01	263	111	Vertical
4	4804	41.81	32.13	-44.46	29.48	54.00	24.52	255	0	Vertical
5	7206	40.76	36.32	-42.23	34.86	54.00	19.14	142	0	Vertical
6	9608	34.39	38.54	-38.05	34.88	54.00	19.12	286	139	Vertical



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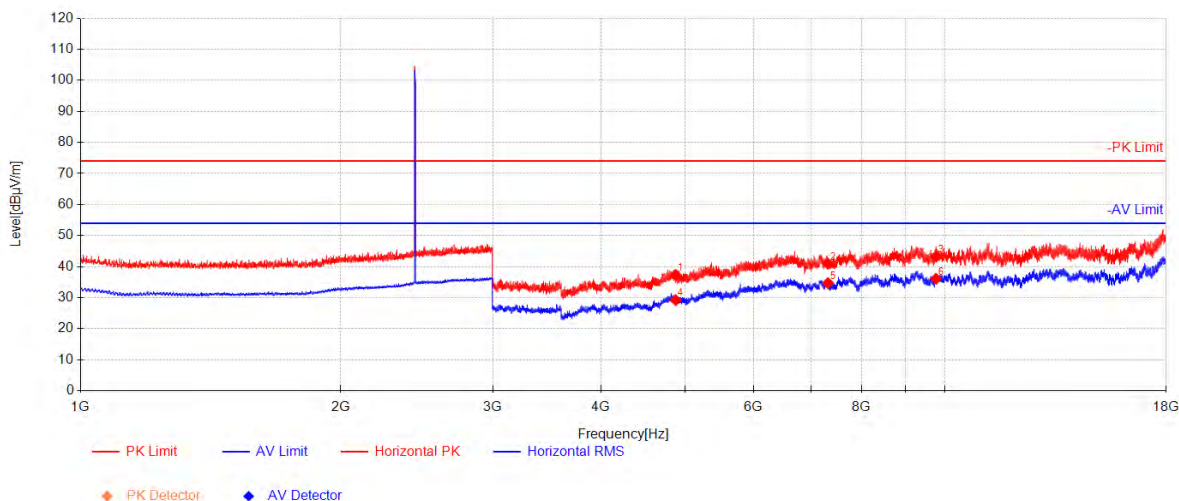
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 87 of 118

BLE 1M_Channel 19 ANT8



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	49.80	32.31	-44.79	37.32	74.00	36.68	241	193	Horizontal
2	7320	46.37	36.39	-41.80	40.96	74.00	33.04	145	193	Horizontal
3	9760	42.23	38.52	-37.51	43.25	74.00	30.75	265	339	Horizontal
4	4880	41.71	32.31	-44.79	29.23	54.00	24.77	288	310	Horizontal
5	7320	40.13	36.39	-41.80	34.72	54.00	19.28	296	3	Horizontal
6	9760	35.10	38.52	-37.51	36.12	54.00	17.88	224	359	Horizontal



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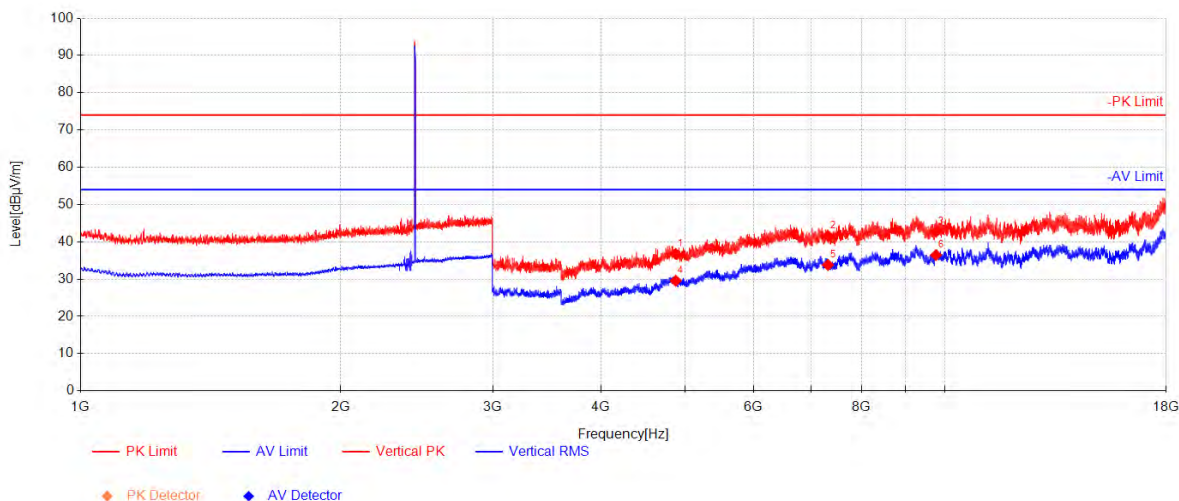
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 88 of 118

BLE 1M_Channel 19 ANT8



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	49.22	32.31	-44.79	36.74	74.00	37.26	175	341	Vertical
2	7320	47.02	36.39	-41.80	41.61	74.00	32.39	265	198	Vertical
3	9760	41.69	38.52	-37.51	42.71	74.00	31.29	241	359	Vertical
4	4880	42.03	32.31	-44.79	29.55	54.00	24.45	188	170	Vertical
5	7320	39.22	36.39	-41.80	33.81	54.00	20.19	296	58	Vertical
6	9760	35.42	38.52	-37.51	36.44	54.00	17.56	264	284	Vertical



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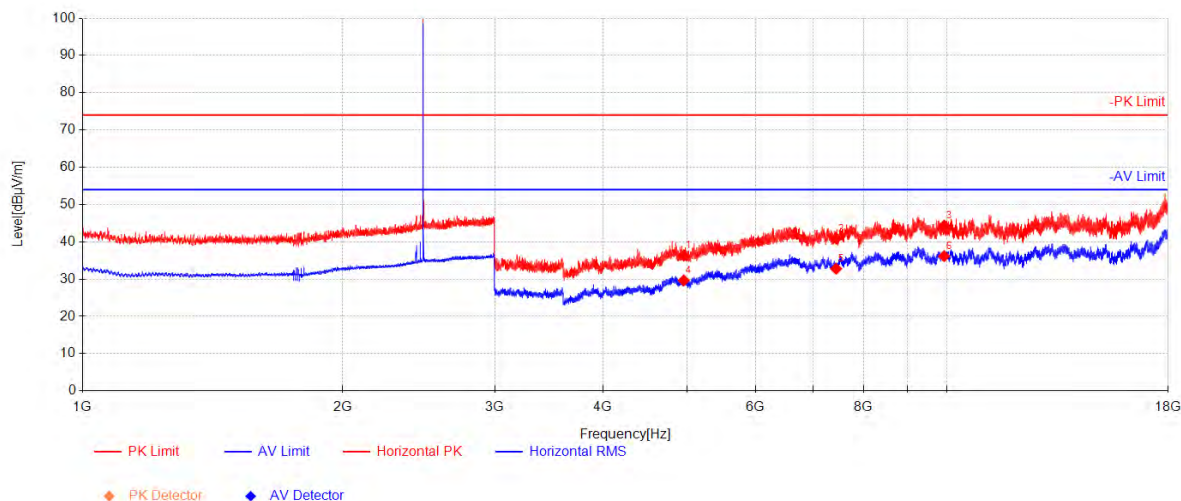
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 89 of 118

BLE 1M_Channel 39 ANT8



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	48.71	32.50	-44.92	36.30	74.00	37.70	268	314	Horizontal
2	7440	46.24	36.46	-41.83	40.88	74.00	33.12	241	342	Horizontal
3	9920	43.06	38.51	-37.22	44.35	74.00	29.65	175	360	Horizontal
4	4960	42.04	32.50	-44.92	29.63	54.00	24.37	296	114	Horizontal
5	7440	38.14	36.46	-41.83	32.78	54.00	21.22	322	230	Horizontal
6	9920	34.86	38.51	-37.22	36.15	54.00	17.85	214	57	Horizontal



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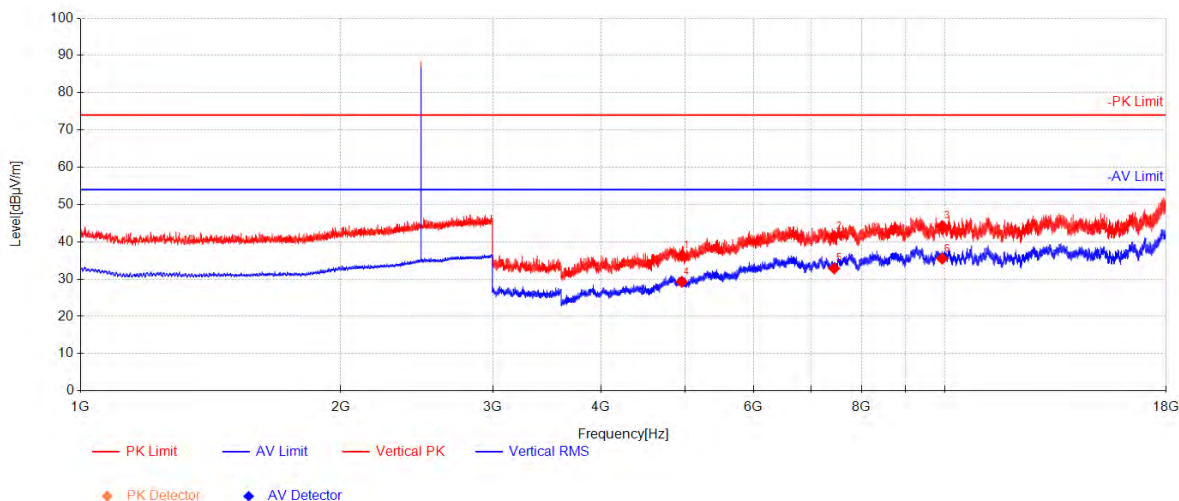
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 90 of 118

BLE 1M_Channel 39 ANT8



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	48.63	32.50	-44.92	36.22	74.00	37.78	254	283	Vertical
2	7440	46.91	36.46	-41.83	41.55	74.00	32.45	174	3	Vertical
3	9920	42.95	38.51	-37.22	44.24	74.00	29.76	142	27	Vertical
4	4960	41.69	32.50	-44.92	29.28	54.00	24.72	256	53	Vertical
5	7440	38.25	36.46	-41.83	32.89	54.00	21.11	366	194	Vertical
6	9920	34.20	38.51	-37.22	35.49	54.00	18.51	287	226	Vertical



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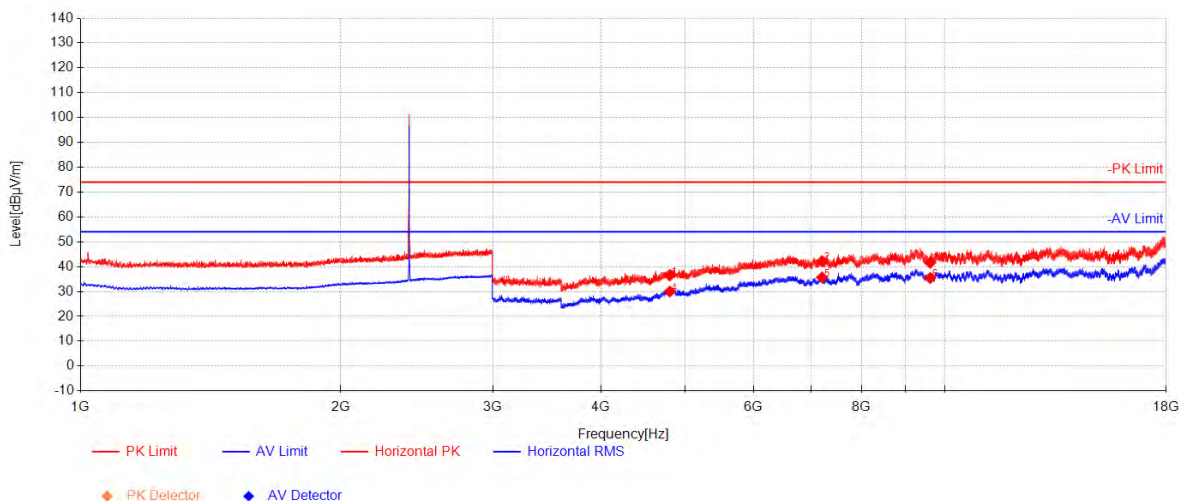
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 91 of 118

BLE 2M_Channel 00 ANT7



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	48.78	32.13	-44.46	36.45	74.00	37.55	268	360	Horizontal
2	7206	48.11	36.32	-42.23	42.21	74.00	31.79	241	23	Horizontal
3	9608	41.11	38.54	-38.05	41.60	74.00	32.40	174	283	Horizontal
4	4804	42.30	32.13	-44.46	29.97	54.00	24.03	166	3	Horizontal
5	7206	41.54	36.32	-42.23	35.64	54.00	18.36	296	153	Horizontal
6	9608	34.97	38.54	-38.05	35.46	54.00	18.54	241	325	Horizontal



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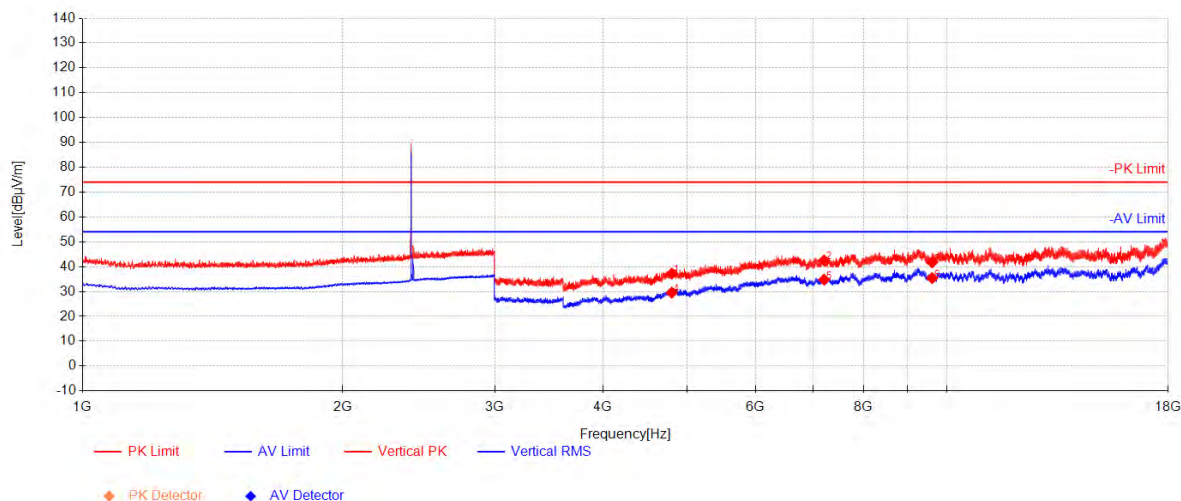
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 92 of 118

BLE 2M_Channel 00 ANT7



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	49.54	32.13	-44.46	37.21	74.00	36.79	214	21	Vertical
2	7206	48.41	36.32	-42.23	42.51	74.00	31.49	142	41	Vertical
3	9608	41.28	38.54	-38.05	41.77	74.00	32.23	265	234	Vertical
4	4804	41.86	32.13	-44.46	29.53	54.00	24.47	284	3	Vertical
5	7206	40.67	36.32	-42.23	34.77	54.00	19.23	142	41	Vertical
6	9608	34.91	38.54	-38.05	35.40	54.00	18.60	296	169	Vertical



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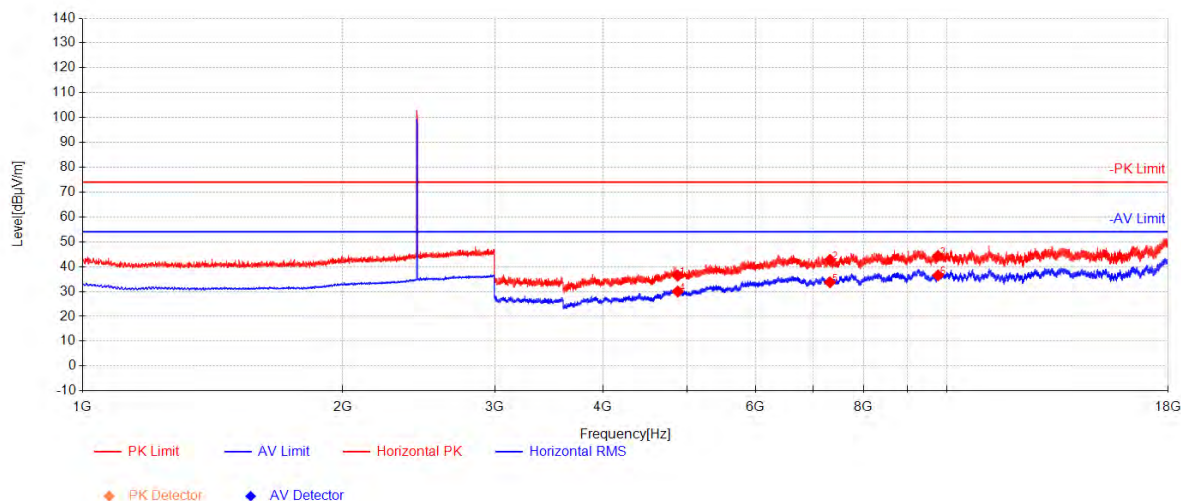
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Page: 93 of 118

BLE 2M_Channel 19 ANT7



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	48.82	32.31	-44.79	36.34	74.00	37.66	265	341	Horizontal
2	7320	48.16	36.39	-41.80	42.75	74.00	31.25	241	173	Horizontal
3	9760	43.31	38.52	-37.51	44.33	74.00	29.67	174	192	Horizontal
4	4880	42.49	32.31	-44.79	30.01	54.00	23.99	142	66	Horizontal
5	7320	39.13	36.39	-41.80	33.72	54.00	20.28	265	258	Horizontal
6	9760	35.49	38.52	-37.51	36.51	54.00	17.49	286	130	Horizontal



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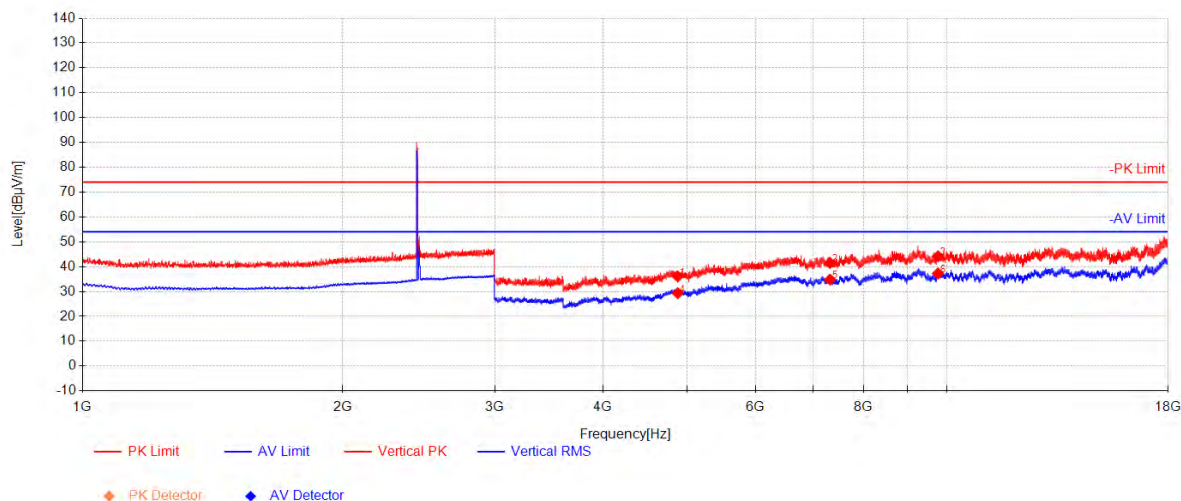
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 94 of 118

BLE 2M_Channel 19 ANT7



Data List

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1	4880	48.53	32.31	-44.79	36.05	74.00	37.95	201	240	Vertical
2	7320	46.93	36.39	-41.80	41.52	74.00	32.48	142	360	Vertical
3	9760	43.17	38.52	-37.51	44.19	74.00	29.81	265	45	Vertical
4	4880	41.81	32.31	-44.79	29.33	54.00	24.67	295	3	Vertical
5	7320	40.20	36.39	-41.80	34.79	54.00	19.21	241	90	Vertical
6	9760	36.24	38.52	-37.51	37.26	54.00	16.74	185	175	Vertical



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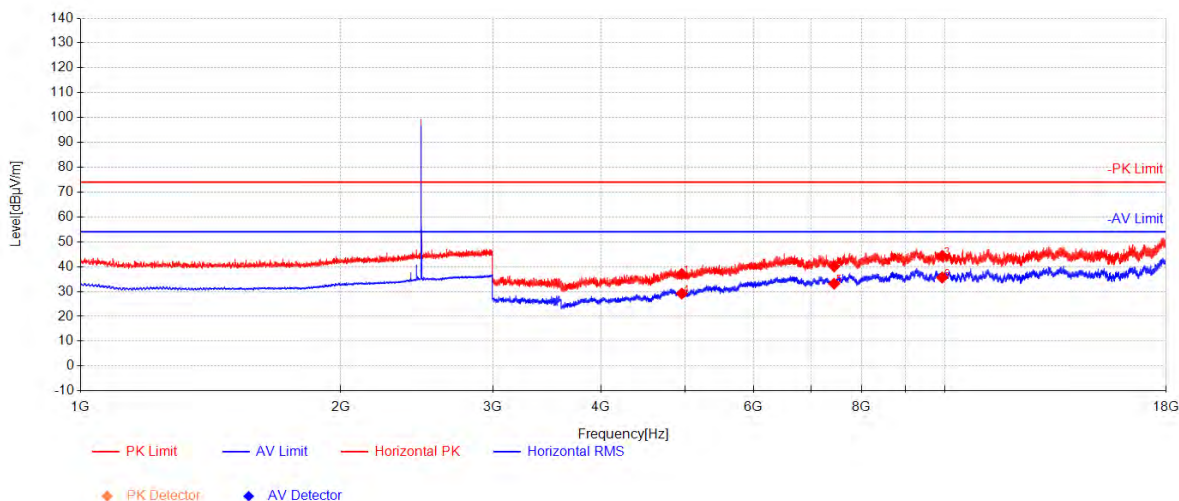
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 95 of 118

BLE 2M_Channel 39 ANT7



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	49.48	32.50	-44.92	37.07	74.00	36.93	268	360	Horizontal
2	7440	45.45	36.46	-41.83	40.09	74.00	33.91	241	170	Horizontal
3	9920	43.04	38.51	-37.22	44.33	74.00	29.67	174	225	Horizontal
4	4960	41.56	32.50	-44.92	29.15	54.00	24.85	142	28	Horizontal
5	7440	38.51	36.46	-41.83	33.15	54.00	20.85	296	313	Horizontal
6	9920	34.34	38.51	-37.22	35.63	54.00	18.37	268	355	Horizontal



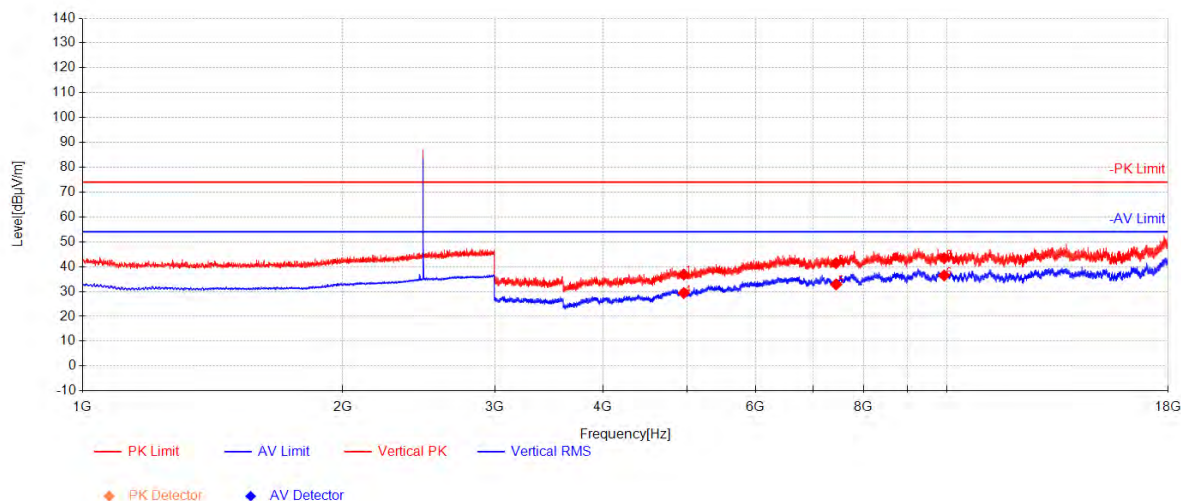
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 96 of 118

BLE 2M_Channel 39 ANT7



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	49.26	32.50	-44.92	36.85	74.00	37.15	201	114	Vertical
2	7440	46.77	36.46	-41.83	41.41	74.00	32.59	142	342	Vertical
3	9920	42.12	38.51	-37.22	43.41	74.00	30.59	263	27	Vertical
4	4960	41.82	32.50	-44.92	29.41	54.00	24.59	255	114	Vertical
5	7440	38.19	36.46	-41.83	32.83	54.00	21.17	185	359	Vertical
6	9920	35.16	38.51	-37.22	36.45	54.00	17.55	296	254	Vertical



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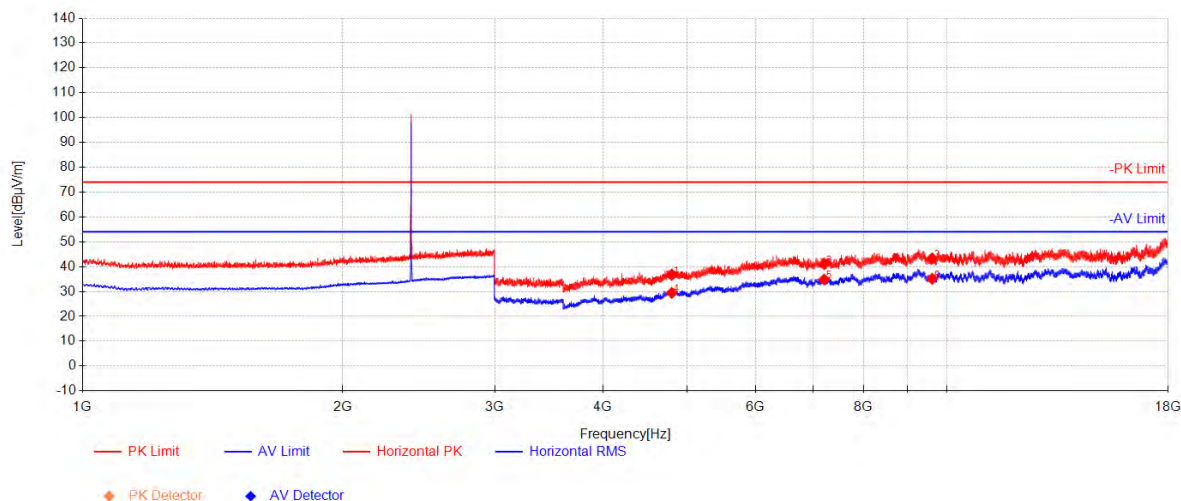
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 97 of 118

BLE 2M_Channel 00 ANT8



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	49.02	32.13	-44.46	36.69	74.00	37.31	265	337	Horizontal
2	7206	46.91	36.32	-42.23	41.01	74.00	32.99	241	139	Horizontal
3	9608	42.84	38.54	-38.05	43.33	74.00	30.67	178	139	Horizontal
4	4804	41.77	32.13	-44.46	29.44	54.00	24.56	263	355	Horizontal
5	7206	40.72	36.32	-42.23	34.82	54.00	19.18	296	224	Horizontal
6	9608	34.62	38.54	-38.05	35.11	54.00	18.89	241	359	Horizontal



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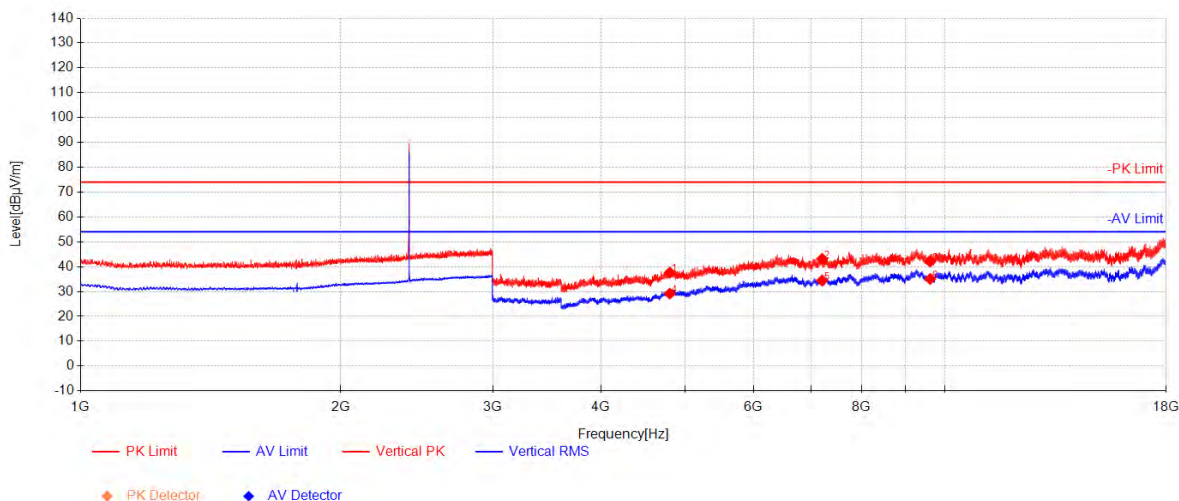
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 98 of 118

BLE 2M_Channel 00 ANT8



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	49.94	32.13	-44.46	37.61	74.00	36.39	296	110	Vertical
2	7206	49.04	36.32	-42.23	43.14	74.00	30.86	285	197	Vertical
3	9608	41.63	38.54	-38.05	42.12	74.00	31.88	241	225	Vertical
4	4804	41.47	32.13	-44.46	29.14	54.00	24.86	174	338	Vertical
5	7206	40.31	36.32	-42.23	34.41	54.00	19.59	145	81	Vertical
6	9608	34.56	38.54	-38.05	35.05	54.00	18.95	268	338	Vertical



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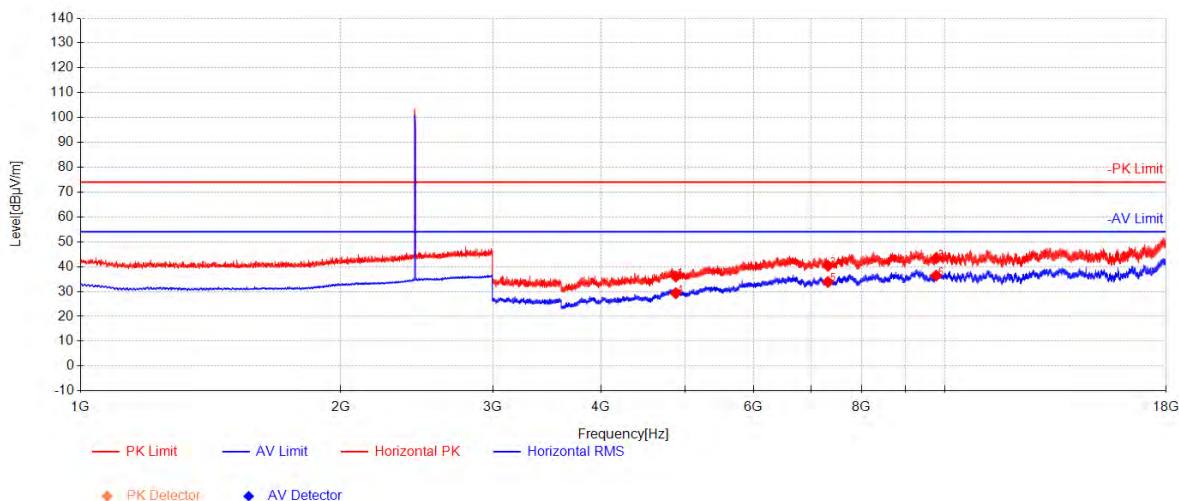
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 99 of 118

BLE 2M_Channel 19 ANT8



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	48.52	32.31	-44.79	36.04	74.00	37.96	296	360	Horizontal
2	7320	45.75	36.39	-41.80	40.34	74.00	33.66	265	142	Horizontal
3	9760	42.41	38.52	-37.51	43.43	74.00	30.57	241	289	Horizontal
4	4880	41.80	32.31	-44.79	29.32	54.00	24.68	142	142	Horizontal
5	7320	39.25	36.39	-41.80	33.84	54.00	20.16	284	170	Horizontal
6	9760	35.39	38.52	-37.51	36.41	54.00	17.59	177	315	Horizontal



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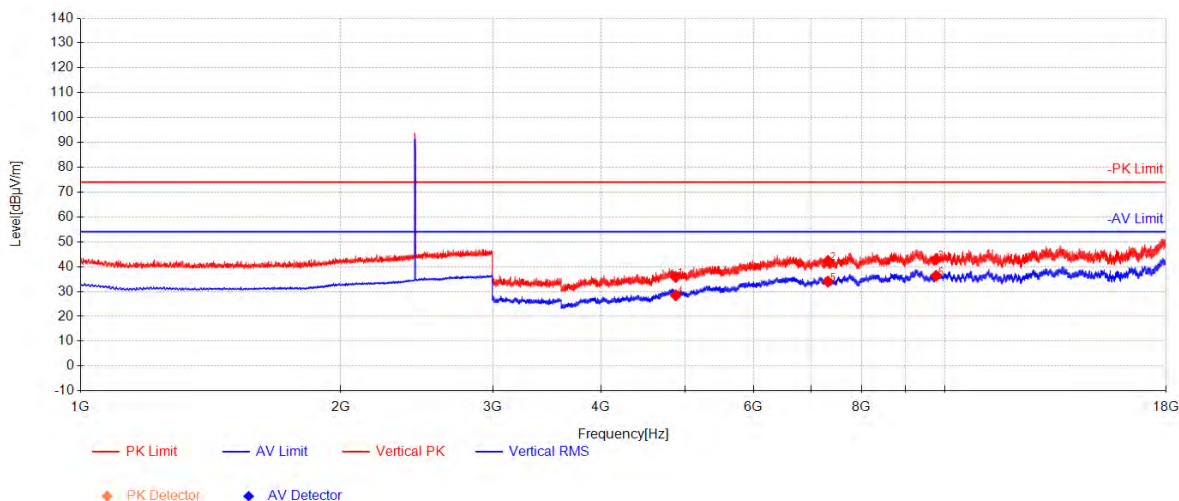
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 100 of 118

BLE 2M_Channel 19 ANT8



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	48.33	32.31	-44.79	35.85	74.00	38.15	205	3	Vertical
2	7320	47.75	36.39	-41.80	42.34	74.00	31.66	265	357	Vertical
3	9760	41.95	38.52	-37.51	42.97	74.00	31.03	263	357	Vertical
4	4880	40.95	32.31	-44.79	28.47	54.00	25.53	255	360	Vertical
5	7320	39.43	36.39	-41.80	34.02	54.00	19.98	254	357	Vertical
6	9760	35.30	38.52	-37.51	36.32	54.00	17.68	142	258	Vertical



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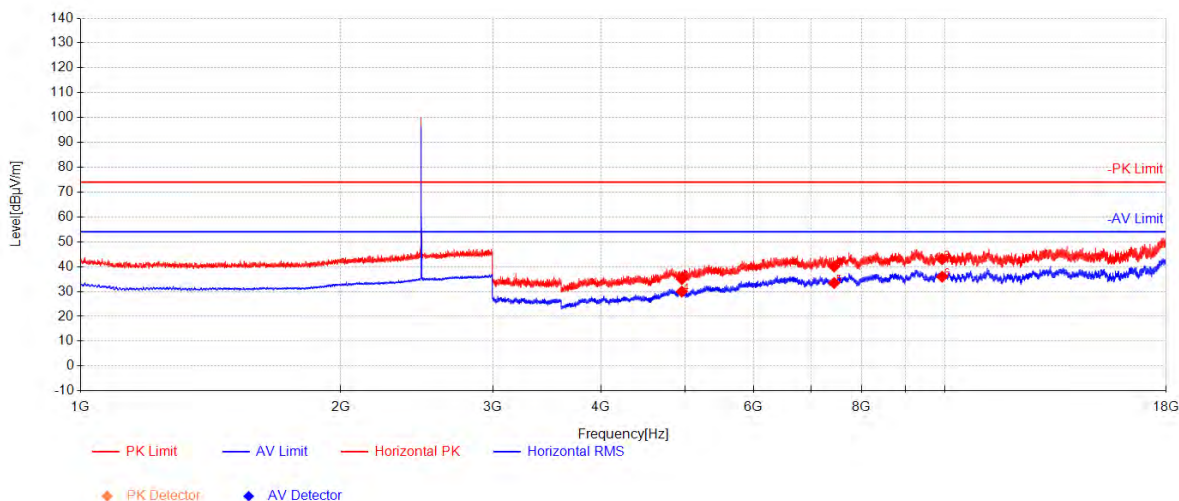
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 101 of 118

BLE 2M_Channel 39 ANT8



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	47.40	32.50	-44.92	34.99	74.00	39.01	263	54	Horizontal
2	7440	45.41	36.46	-41.83	40.05	74.00	33.95	254	198	Horizontal
3	9920	41.72	38.51	-37.22	43.01	74.00	30.99	145	254	Horizontal
4	4960	42.39	32.50	-44.92	29.98	54.00	24.02	268	360	Horizontal
5	7440	38.77	36.46	-41.83	33.41	54.00	20.59	255	254	Horizontal
6	9920	34.68	38.51	-37.22	35.97	54.00	18.03	241	198	Horizontal



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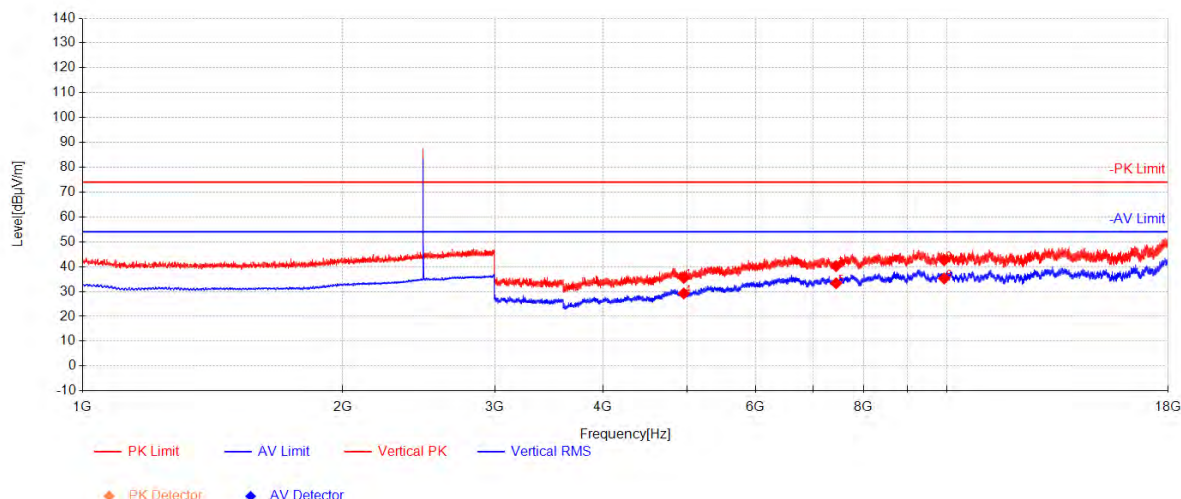
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 102 of 118

BLE 2M_Channel 39 ANT8



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	47.89	32.50	-44.92	35.48	74.00	38.52	265	360	Vertical
2	7440	45.59	36.46	-41.83	40.23	74.00	33.77	284	3	Vertical
3	9920	41.32	38.51	-37.22	42.61	74.00	31.39	142	169	Vertical
4	4960	41.61	32.50	-44.92	29.20	54.00	24.80	296	3	Vertical
5	7440	38.67	36.46	-41.83	33.31	54.00	20.69	263	342	Vertical
6	9920	33.94	38.51	-37.22	35.23	54.00	18.77	254	141	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

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

AF = Antenna Factor(dB/m)

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

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

- 2) All channels have been tested, but only the worst case data displayed in this report.



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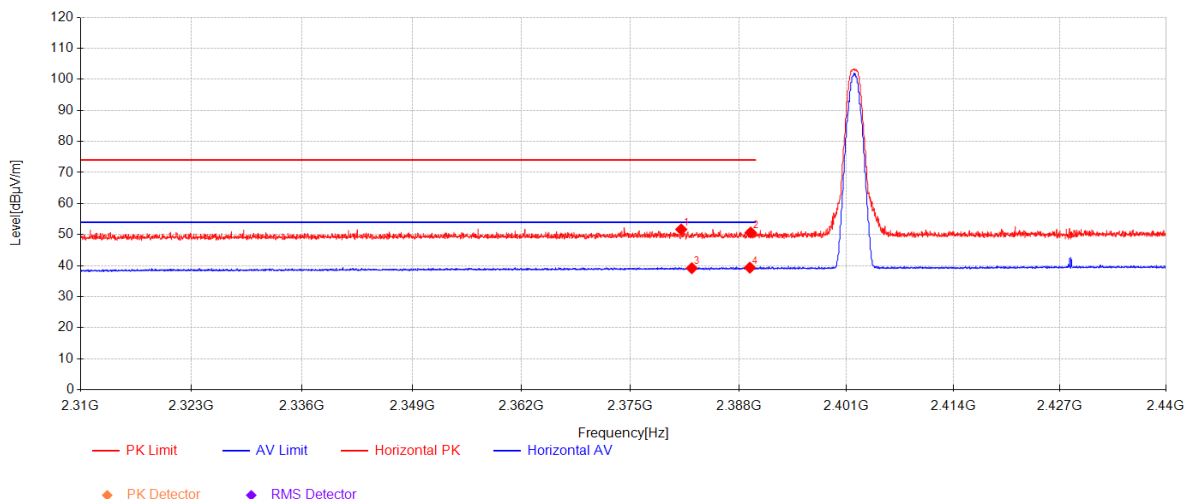
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 103 of 118

Restricted bands around fundamental frequency

BLE 1M_Channel 00 ANT7



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	2381.0775	48.43	27.66	-24.44	51.65	74.00	22.35	142	275	Horizontal
2	2389.43	47.40	27.68	-24.42	50.66	74.00	23.34	142	275	Horizontal
3	2382.345	35.95	27.66	-24.44	39.18	54.00	14.82	142	275	Horizontal
4	2389.3325	36.10	27.68	-24.42	39.36	54.00	14.64	142	275	Horizontal



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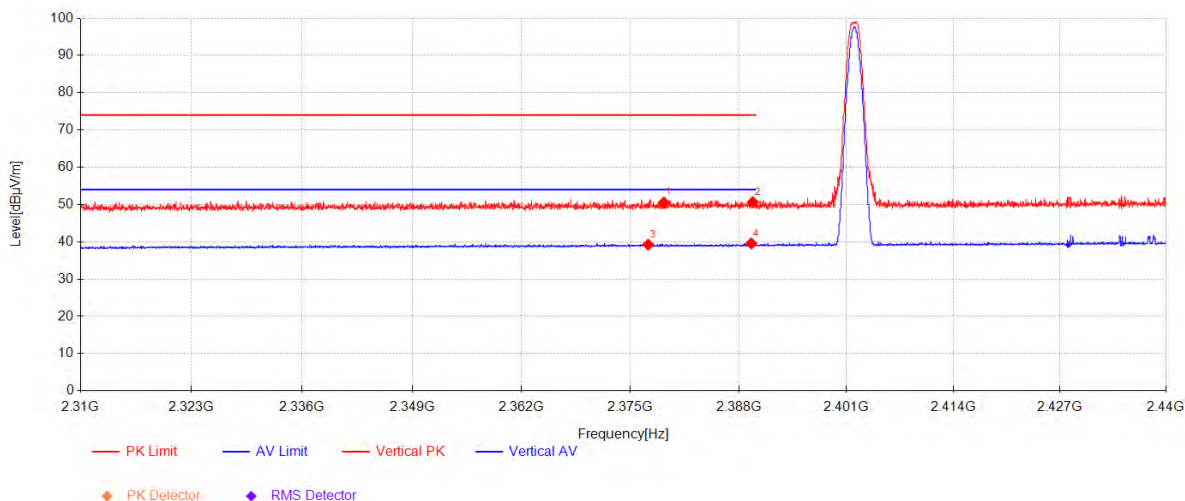
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 104 of 118

BLE 1M_Channel 00 ANT7



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	2378.9975	47.33	27.66	-24.45	50.54	74.00	23.46	286	253	Vertical
2	2389.69	47.39	27.68	-24.42	50.65	74.00	23.35	286	253	Vertical
3	2377.1125	36.03	27.65	-24.45	39.23	54.00	14.77	286	253	Vertical
4	2389.495	36.28	27.68	-24.42	39.54	54.00	14.46	286	253	Vertical



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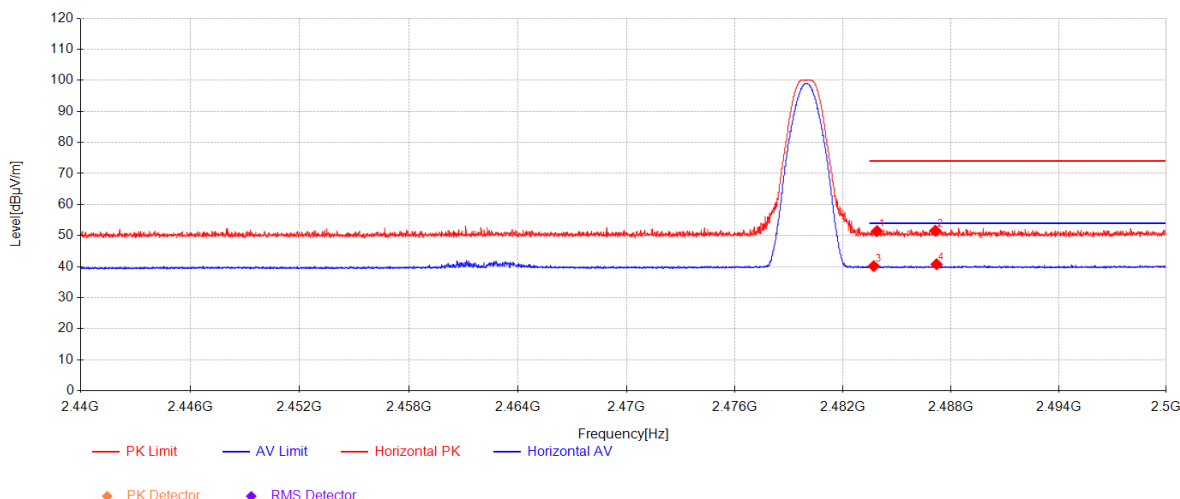
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 105 of 118

BLE 1M_Channel 39 ANT7



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	2483.89	47.53	27.87	-23.96	51.44	74.00	22.56	144	268	Horizontal
2	2487.13	47.64	27.87	-23.94	51.58	74.00	22.42	144	268	Horizontal
3	2483.71	36.27	27.87	-23.96	40.18	54.00	13.82	144	268	Horizontal
4	2487.205	36.84	27.87	-23.94	40.78	54.00	13.22	144	268	Horizontal



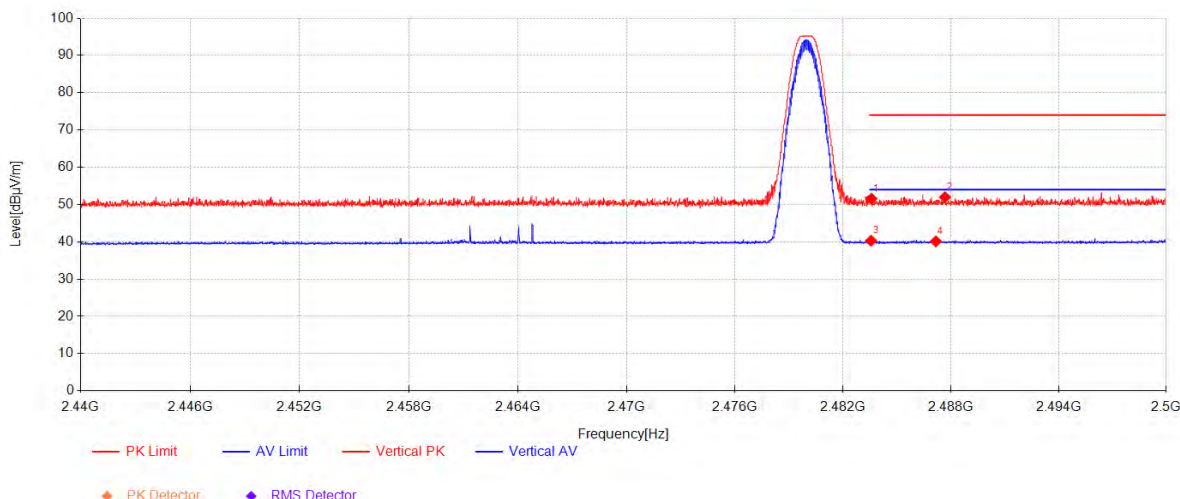
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 106 of 118

BLE 1M_Channel 39 ANT7



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.575	47.66	27.87	-23.96	51.57	74.00	22.43	332	254	Vertical
2	2487.67	48.04	27.88	-23.94	51.98	74.00	22.02	332	254	Vertical
3	2483.56	36.38	27.87	-23.96	40.29	54.00	13.71	332	254	Vertical
4	2487.16	36.17	27.87	-23.94	40.11	54.00	13.89	332	254	Vertical



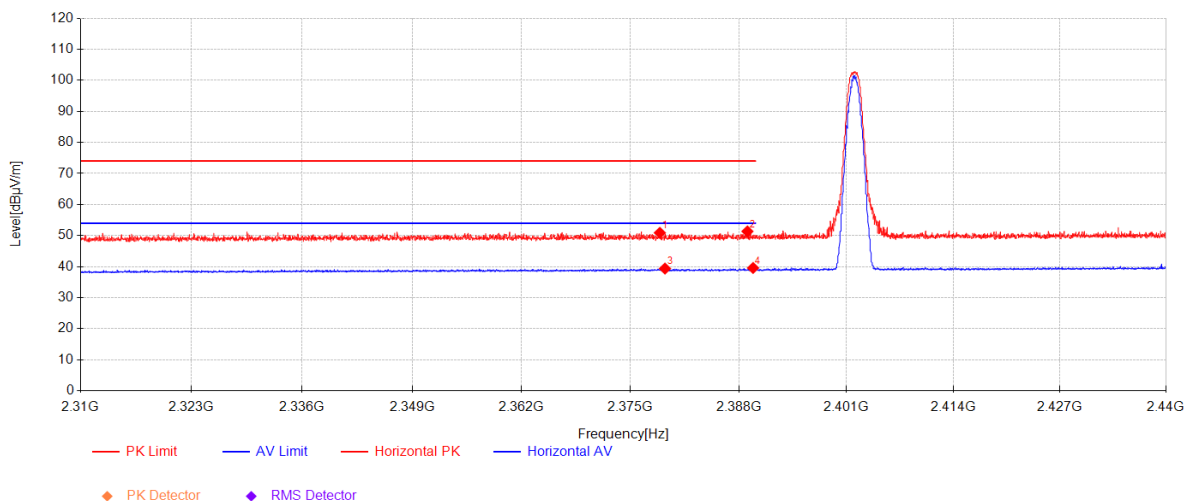
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 107 of 118

BLE 1M_Channel 00 ANT8



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	2378.51	47.69	27.66	-24.45	50.90	74.00	23.10	268	296	Horizontal
2	2389.04	48.10	27.68	-24.42	51.35	74.00	22.65	268	296	Horizontal
3	2379.1275	36.18	27.66	-24.45	39.39	54.00	14.61	268	296	Horizontal
4	2389.7225	36.32	27.68	-24.42	39.58	54.00	14.42	268	296	Horizontal



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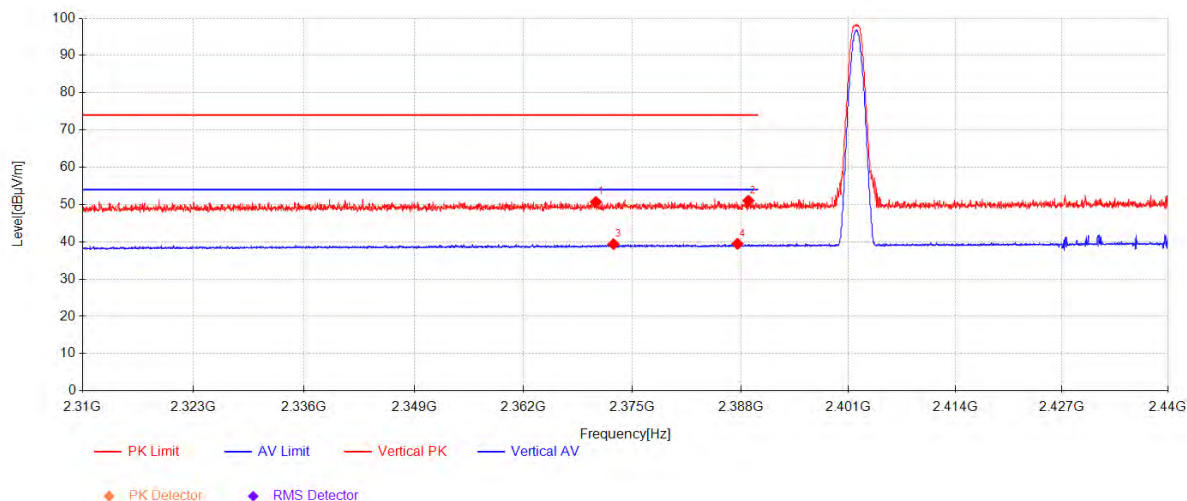
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 108 of 118

BLE 1M_Channel 00 ANT8



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.6125	47.54	27.64	-24.46	50.72	74.00	23.28	146	174	Vertical
2	2388.91	47.78	27.68	-24.42	51.03	74.00	22.97	146	174	Vertical
3	2372.725	36.18	27.65	-24.46	39.37	54.00	14.63	146	174	Vertical
4	2387.61	36.23	27.68	-24.43	39.48	54.00	14.52	146	174	Vertical



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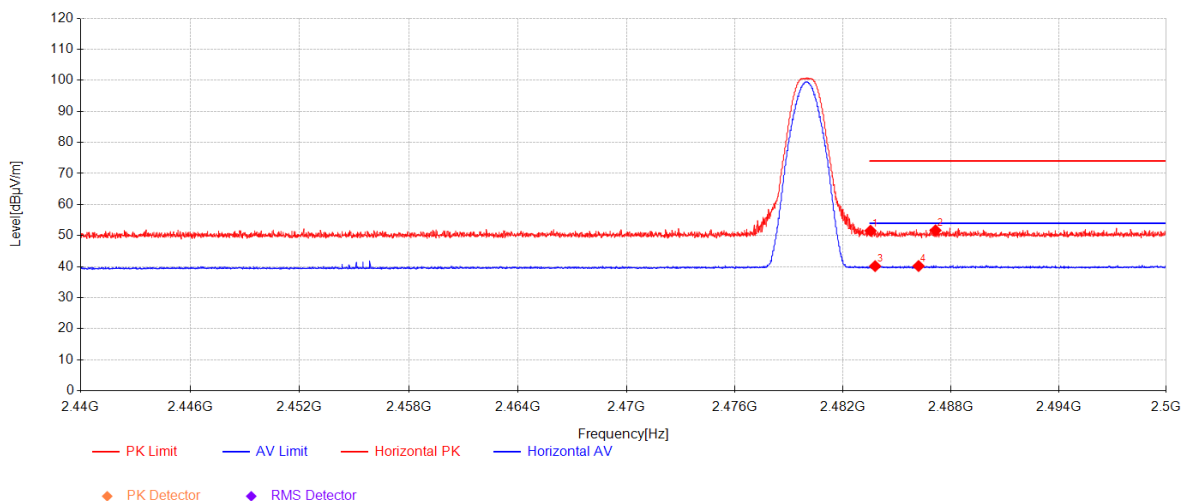
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 109 of 118

BLE 1M_Channel 39 ANT8



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	2483.53	47.66	27.87	-23.96	51.57	74.00	22.43	176	249	Horizontal
2	2487.145	47.74	27.87	-23.94	51.68	74.00	22.32	176	249	Horizontal
3	2483.785	36.27	27.87	-23.96	40.18	54.00	13.82	176	249	Horizontal
4	2486.2	36.28	27.87	-23.94	40.21	54.00	13.79	176	249	Horizontal



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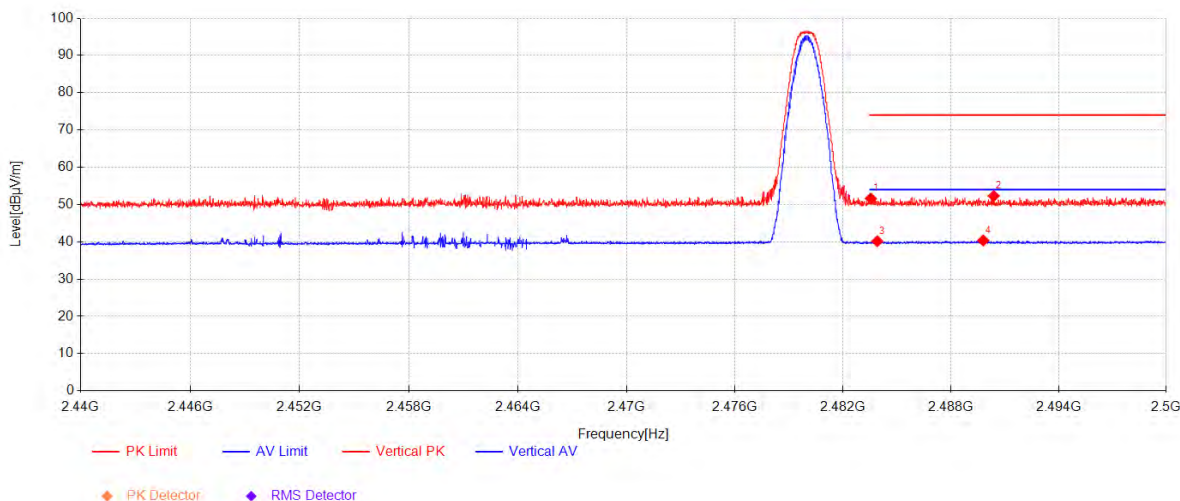
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 110 of 118

BLE 1M_Channel 39 ANT8



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	47.71	27.87	-23.96	51.62	74.00	22.38	176	296	Vertical
2	2490.385	48.34	27.88	-23.92	52.30	74.00	21.70	176	296	Vertical
3	2483.905	36.24	27.87	-23.96	40.15	54.00	13.85	176	296	Vertical
4	2489.8	36.41	27.88	-23.92	40.37	54.00	13.63	176	296	Vertical



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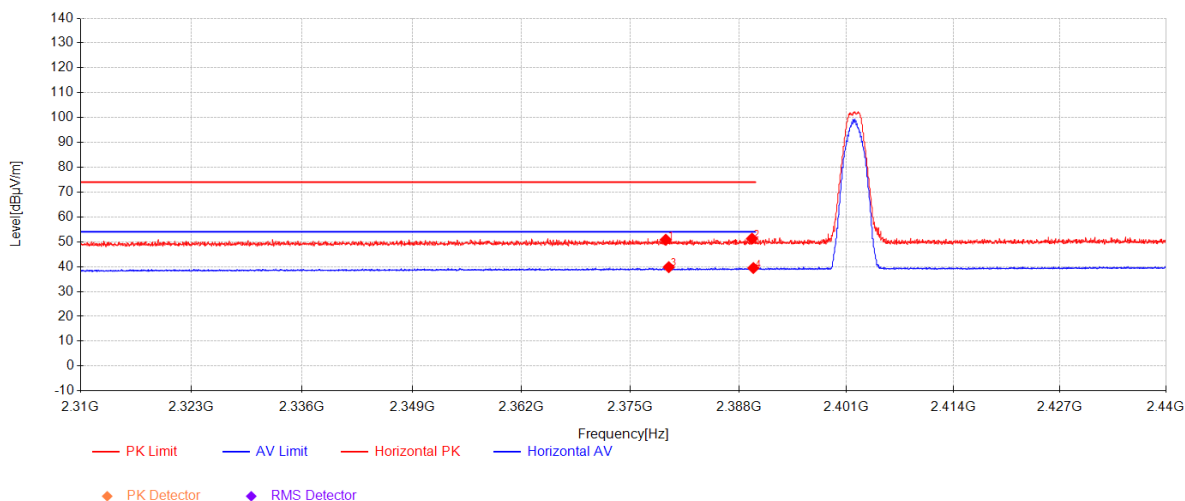
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 111 of 118

BLE 2M_Channel 00 ANT7



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	2379.225	47.62	27.66	-24.45	50.83	74.00	23.17	129	259	Horizontal
2	2389.5925	48.02	27.68	-24.42	51.28	74.00	22.72	129	259	Horizontal
3	2379.5825	36.60	27.66	-24.44	39.81	54.00	14.19	129	259	Horizontal
4	2389.755	36.20	27.68	-24.42	39.46	54.00	14.54	129	259	Horizontal



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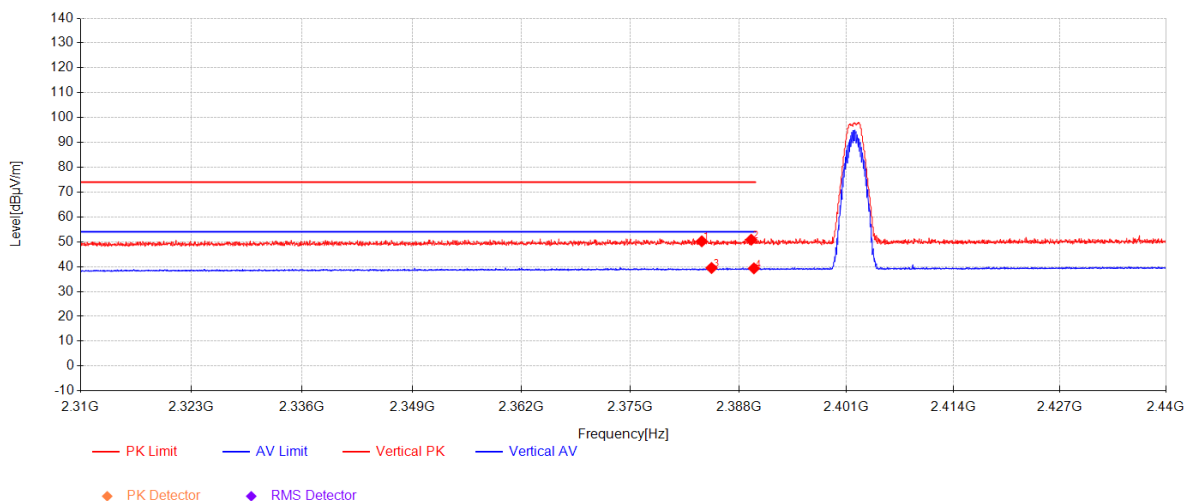
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Rev.: 01
Page: 112 of 118

BLE 2M_Channel 00 ANT7



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.5475	46.97	27.67	-24.44	50.20	74.00	23.80	325	241	Vertical
2	2389.495	47.58	27.68	-24.42	50.84	74.00	23.16	325	241	Vertical
3	2384.7175	36.23	27.67	-24.43	39.47	54.00	14.53	325	241	Vertical
4	2389.82	36.05	27.68	-24.42	39.31	54.00	14.69	325	241	Vertical



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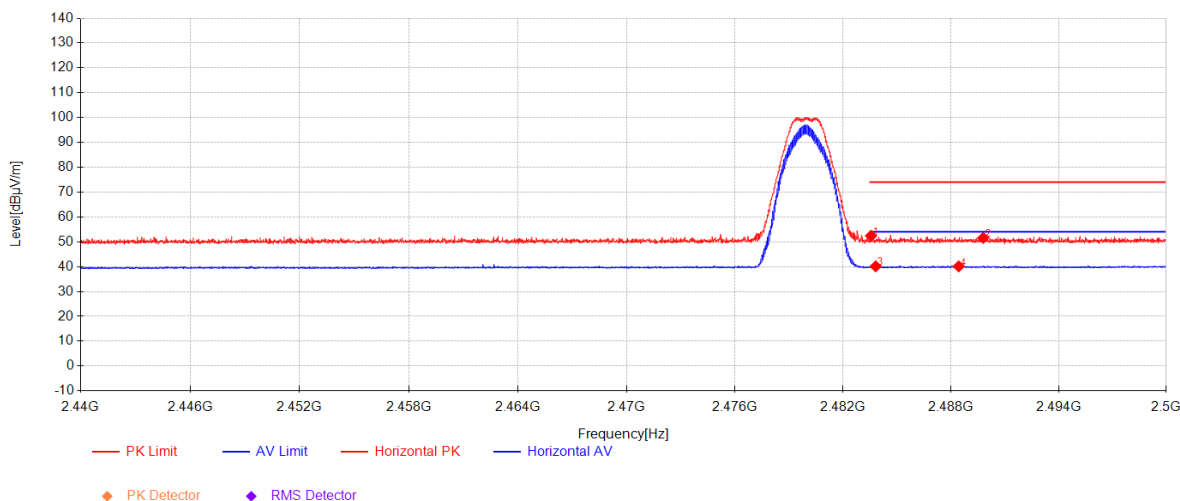
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 113 of 118

BLE 2M_Channel 39 ANT7



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	2483.56	48.53	27.87	-23.96	52.44	74.00	21.56	168	277	Horizontal
2	2489.8	47.62	27.88	-23.92	51.58	74.00	22.42	168	277	Horizontal
3	2483.815	36.24	27.87	-23.96	40.15	54.00	13.85	168	277	Horizontal
4	2488.435	36.17	27.88	-23.93	40.12	54.00	13.88	168	277	Horizontal



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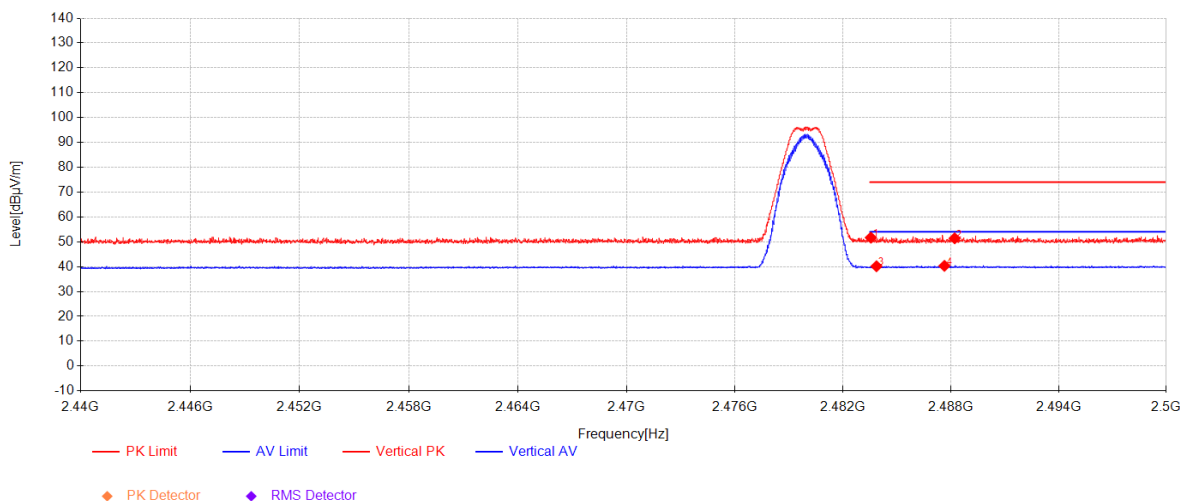
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 114 of 118

BLE 2M_Channel 39 ANT7



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	47.78	27.87	-23.96	51.69	74.00	22.31	362	255	Vertical
2	2488.21	47.46	27.88	-23.93	51.40	74.00	22.60	362	255	Vertical
3	2483.86	36.25	27.87	-23.96	40.16	54.00	13.84	362	255	Vertical
4	2487.64	36.39	27.88	-23.94	40.33	54.00	13.67	362	255	Vertical



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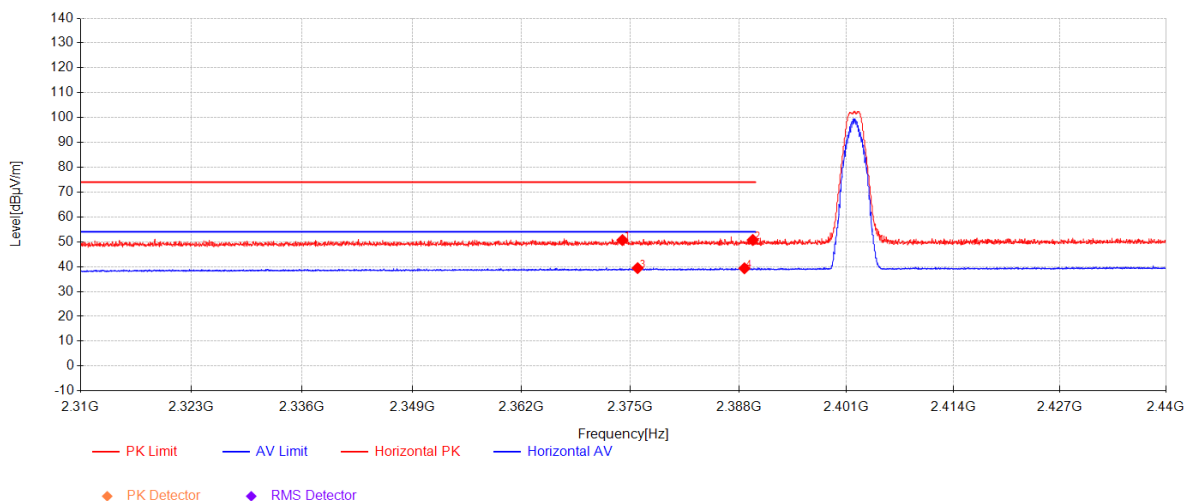
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Rev.: 01

Page: 115 of 118

BLE 2M_Channel 00 ANT8



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.025	47.52	27.65	-24.46	50.71	74.00	23.29	326	291	Horizontal
2	2389.69	47.49	27.68	-24.42	50.75	74.00	23.25	326	291	Horizontal
3	2375.845	36.21	27.65	-24.45	39.41	54.00	14.59	326	291	Horizontal
4	2388.6825	36.09	27.68	-24.42	39.34	54.00	14.66	326	291	Horizontal



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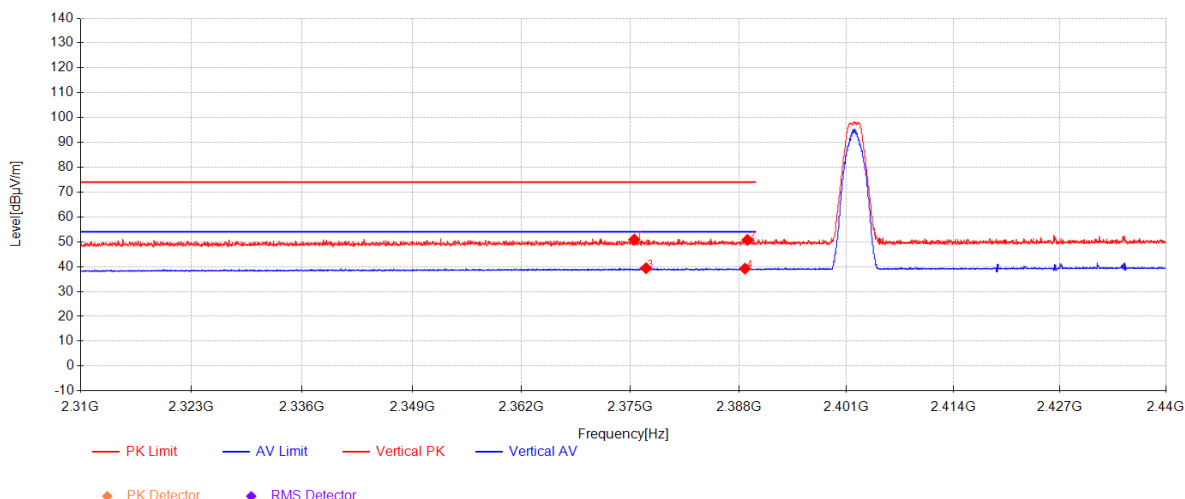
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Report No.: SEWM2209000168RG04
Rev.: 01
Page: 116 of 118

BLE 2M_Channel 00 ANT8



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	2375.455	47.70	27.65	-24.45	50.90	74.00	23.10	176	122	Vertical
2	2389.04	47.53	27.68	-24.42	50.78	74.00	23.22	176	122	Vertical
3	2376.8525	36.18	27.65	-24.45	39.38	54.00	14.62	176	122	Vertical
4	2388.7475	35.95	27.68	-24.42	39.20	54.00	14.80	176	122	Vertical



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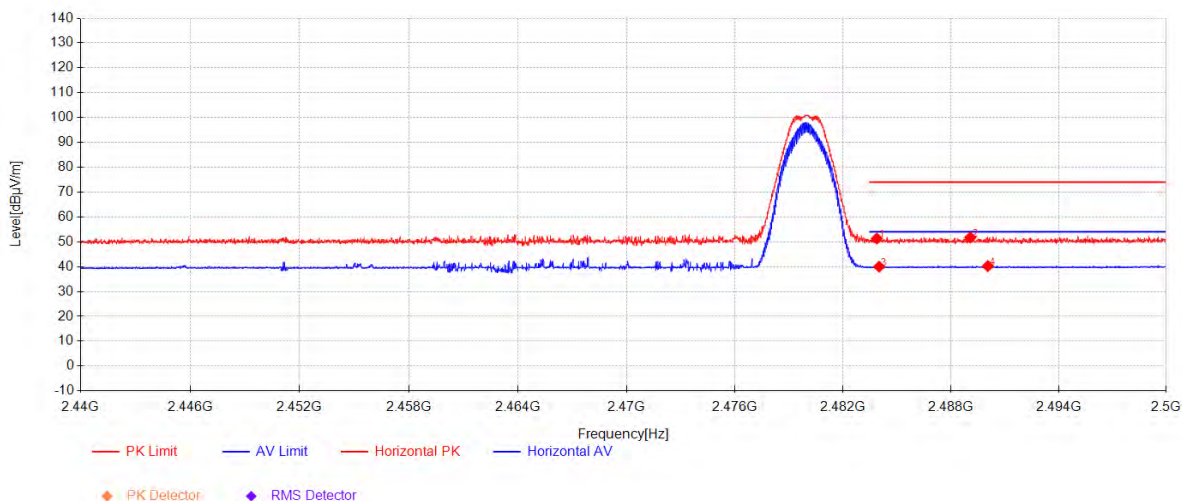
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Report No.: SEWM2209000168RG04

Rev.: 01

Page: 117 of 118

BLE 2M_Channel 39 ANT8



Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.875	47.44	27.87	-23.96	51.35	74.00	22.65	368	276	Horizontal
2	2489.08	47.79	27.88	-23.93	51.74	74.00	22.26	368	276	Horizontal
3	2484.01	36.10	27.87	-23.95	40.01	54.00	13.99	368	276	Horizontal
4	2490.055	36.25	27.88	-23.92	40.21	54.00	13.79	368	276	Horizontal



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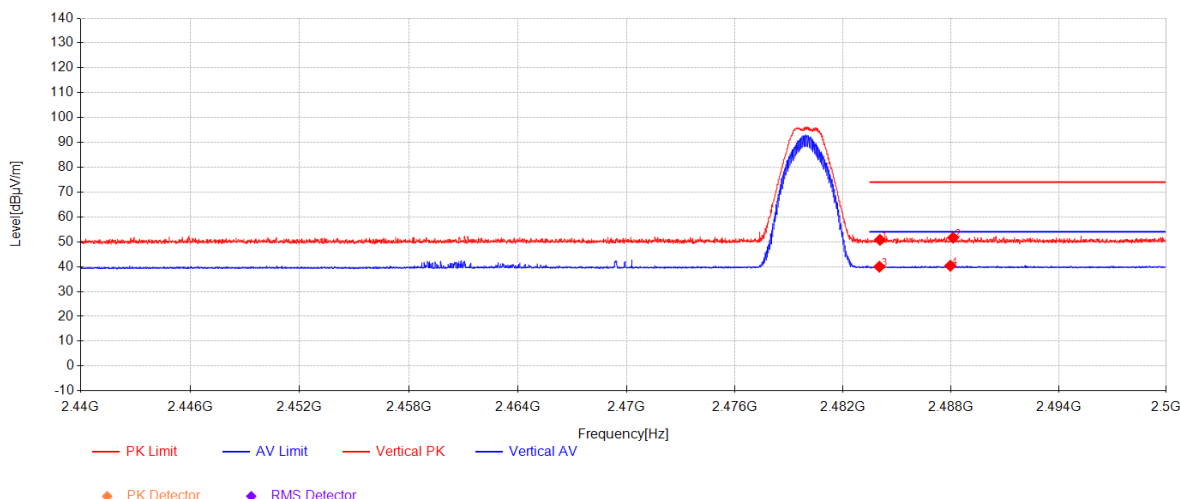
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Rev.: 01
Page: 118 of 118

BLE 2M_Channel 39 ANT8



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	2484.055	46.87	27.87	-23.95	50.78	74.00	23.22	163	255	Vertical
2	2488.12	47.72	27.88	-23.93	51.66	74.00	22.34	163	255	Vertical
3	2484.025	36.07	27.87	-23.95	39.98	54.00	14.02	163	255	Vertical
4	2487.97	36.42	27.88	-23.93	40.36	54.00	13.64	163	255	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(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

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

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

---End of Report---



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