

Report No.: SEWM2212000302RG03  
 Rev.: 01  
 Page: 1 of 125

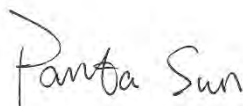
# TEST REPORT

**Application No.:** SEWM2212000302RG  
**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.:** Lenovo TB-X6E6F  
**Trade Mark:** Lenovo  
**FCC ID:** O57TBX6E6F  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2022/12/14  
**Date of Test:** 2022/12/25 to 2023/01/12  
**Date of Issue:** 2023/01/12

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Panta Sun  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/01/12		Original

<b>Prepared By</b>		 <hr/> (King-p Li) / Test Engineer
<b>Checked By</b>		 <hr/> (Well Wei) / Reviewer



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## 2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
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	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);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:	King-p Li, Ives Cheng

#### 3.3 Test Facility

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

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



### 3.4 General Description of EUT

EUT Description:	Portable Tablet Computer	
Model No.:	Lenovo TB-X6E6F	
Trade Mark:	Lenovo	
Hardware Version:	Lenovo Tablet TB-X6E6F	
Software Version:	Lenovo TB-X6E6F_RF01_221201	
SN:	RF Conducted	HA1RLMQ0
	RSE & AC power line	HA1RLHF6 HA1RNS2E
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
	802.11n(HT40):	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20):	11
	802.11n(HT40):	7
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
		TXBF: 802.11n: Tx & Rx
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx	
Antenna Type:	IFA Internal Antenna	
Antenna Gain:	-2.2dBi(Ant1)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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Operation Frequency of each channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency of each channel (802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
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 for 802.11 b/g/n (HT20)		Frequency for 802.11n (HT40)			
The Lowest channel		2412MHz		2422MHz			
The Middle channel		2437MHz		2437MHz			
The Highest channel		2462MHz		2452MHz			



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### 3.5 Test Environment and Mode

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.

### 3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(b)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is IFA Internal Antenna and no consideration of replacement. The best case gain of the antenna is -2.2dBi(Ant1);*</p> <p><i>*Note: The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></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:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>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.</p> <p>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,</p> <p>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. 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.</p>		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



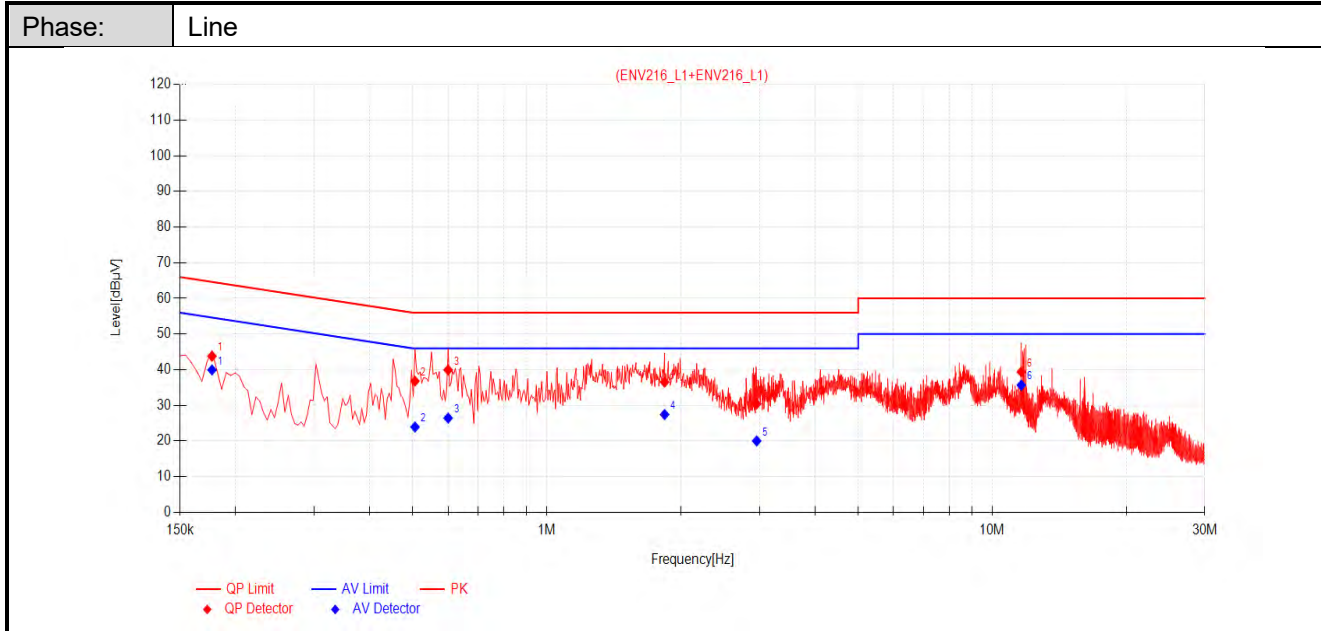
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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	0.1770	10.75	33.04	43.79	64.63	20.84	29.19	39.94	54.63	14.69	PASS
2	0.5055	10.61	26.19	36.80	56.00	19.20	13.33	23.94	46.00	22.06	PASS
3	0.6000	10.50	29.43	39.93	56.00	16.07	15.94	26.44	46.00	19.56	PASS
4	1.8375	10.71	25.82	36.53	56.00	19.47	16.72	27.43	46.00	18.57	PASS
5	2.9580	10.67	19.75	30.42	56.00	25.58	9.35	20.02	46.00	25.98	PASS
6	11.6205	10.59	28.80	39.39	60.00	20.61	25.08	35.67	50.00	14.33	PASS

Remark:

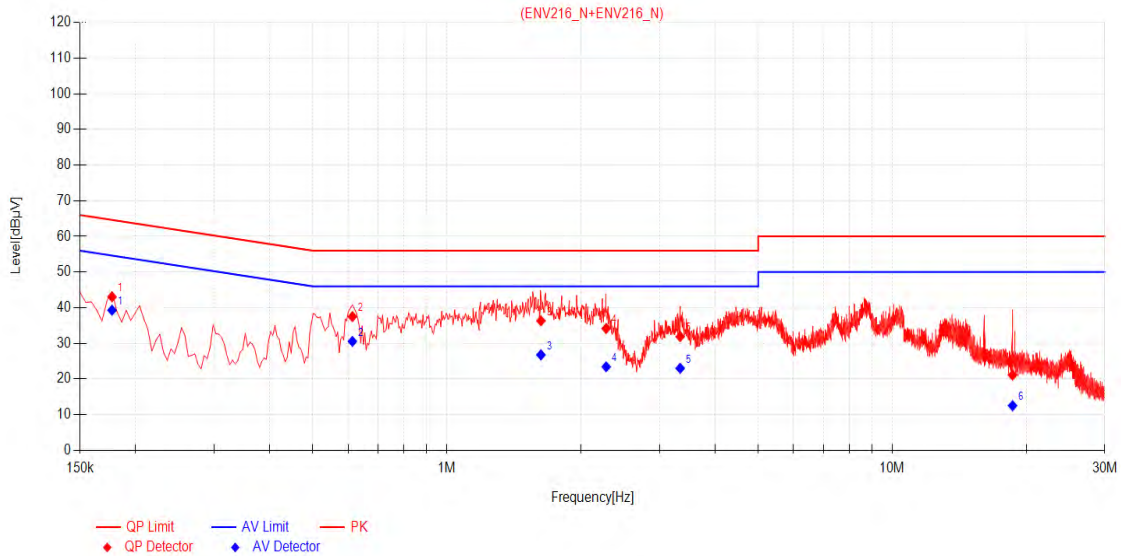
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]



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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	0.1770	10.71	32.35	43.06	64.63	21.57	28.59	39.30	54.63	15.33	PASS
2	0.6135	10.70	26.80	37.50	56.00	18.50	19.84	30.54	46.00	15.46	PASS
3	1.6260	10.77	25.56	36.33	56.00	19.67	16.00	26.77	46.00	19.23	PASS
4	2.2785	10.78	23.39	34.17	56.00	21.83	12.64	23.42	46.00	22.58	PASS
5	3.3405	10.64	21.26	31.90	56.00	24.10	12.37	23.01	46.00	22.99	PASS
6	18.6270	10.45	10.64	21.09	60.00	38.91	2.07	12.52	50.00	37.48	PASS

Remark:

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



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Rev.: 01

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### 4.3 Duty Cycle

The detailed test data see: **Appendix**

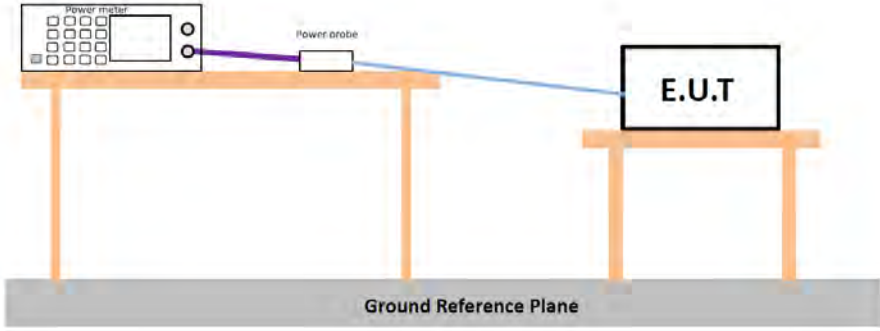


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### 4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.2.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



### 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				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	3MHz	Peak	
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
<p>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.</p>					



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Test Setup:

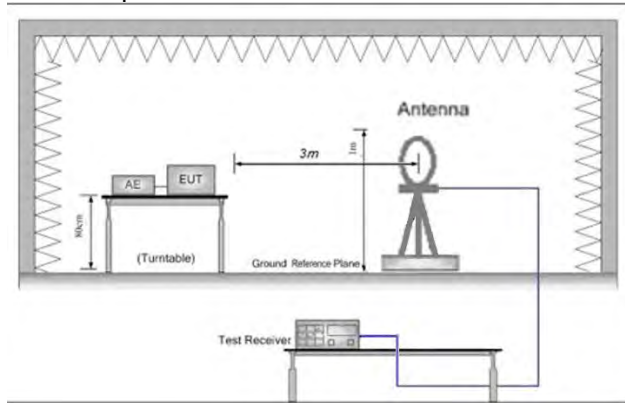


Figure 1. Below 30MHz

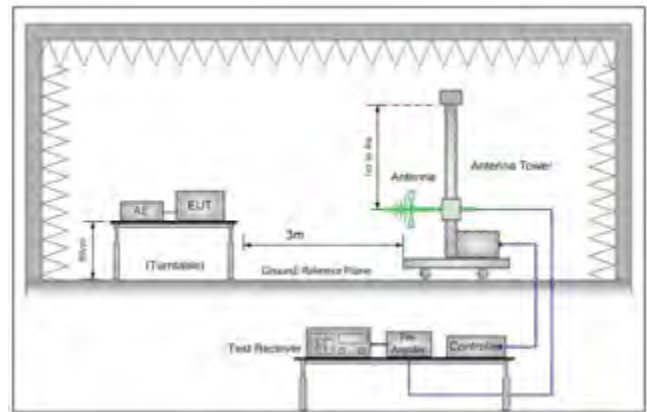


Figure 2. 30MHz to 1GHz

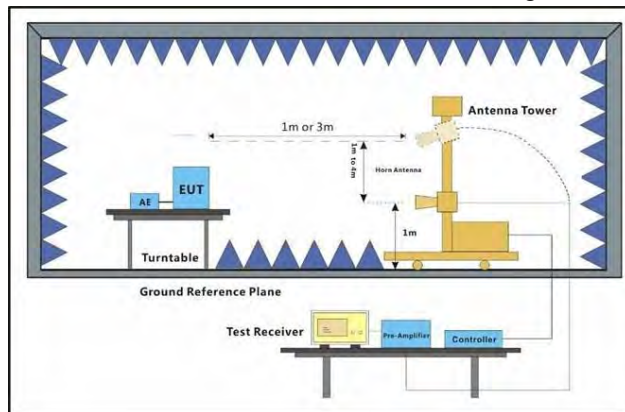


Figure 3. Above 1 GHz

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



	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. 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>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. 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</p> <p>k. 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.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq</math> [3 *RBW]</li> <li>• Detector = RMS (power averaging), if span / (# of points in sweep) <math>\leq</math> (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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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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:

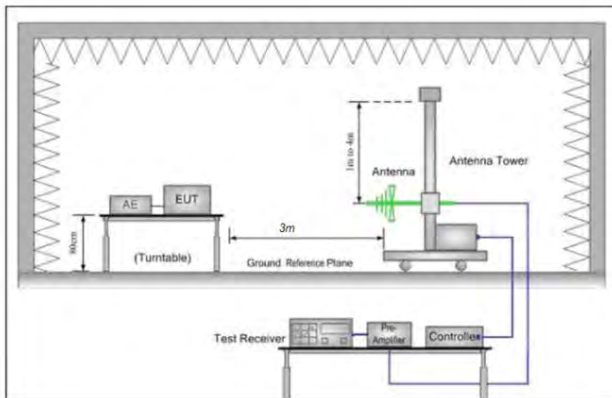


Figure 1. 30MHz to 1GHz

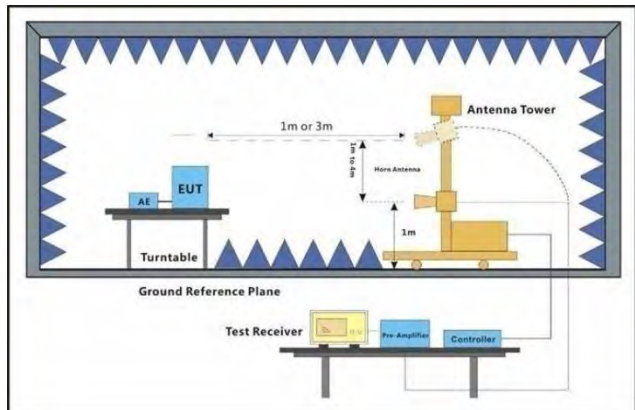


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. 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 bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>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.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ [3 *RBW]</li> <li>• 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.</li> <li>• Sweep time = auto</li> <li>• Perform a trace average of at least 100 traces.</li> </ul>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>



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Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (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					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	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
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14

CE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	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	2022/11/23	2023/11/22
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-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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**DTS Bandwidth  
Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant1	2412	8.16	2407.92	2416.08	≥0.5	PASS
		2437	8.16	2432.92	2441.08	≥0.5	PASS
		2462	8.16	2457.92	2466.08	≥0.5	PASS
11g	Ant1	2412	16.40	2403.80	2420.20	≥0.5	PASS
		2437	16.40	2428.80	2445.20	≥0.5	PASS
		2462	16.40	2453.80	2470.20	≥0.5	PASS
11n20SISO	Ant1	2412	17.16	2403.40	2420.56	≥0.5	PASS
		2437	17.04	2428.52	2445.56	≥0.5	PASS
		2462	17.12	2453.44	2470.56	≥0.5	PASS
11n40SISO	Ant1	2422	35.60	2404.32	2439.92	≥0.5	PASS
		2437	35.44	2419.40	2454.84	≥0.5	PASS
		2452	35.44	2434.40	2469.84	≥0.5	PASS

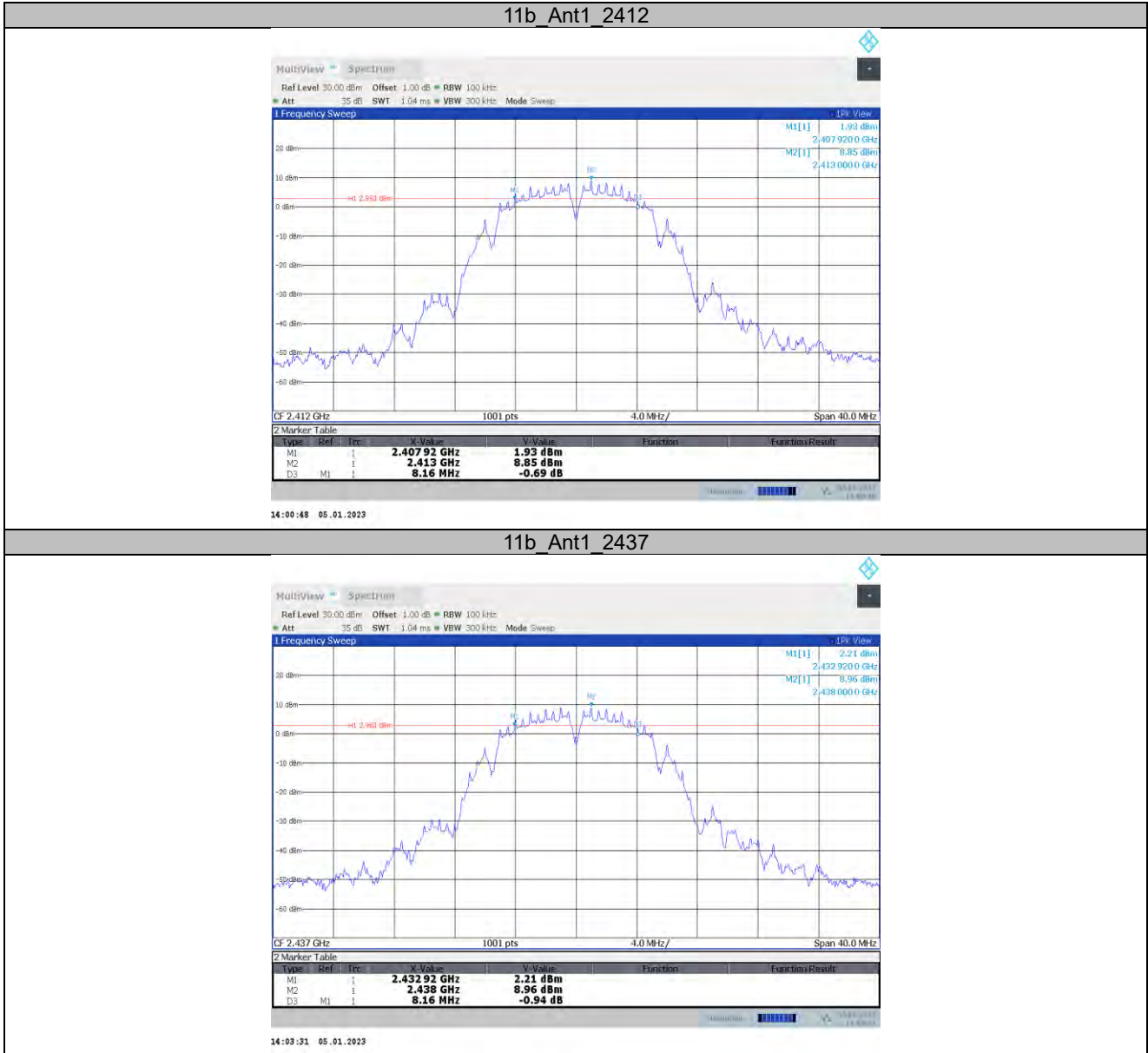


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Test Graphs



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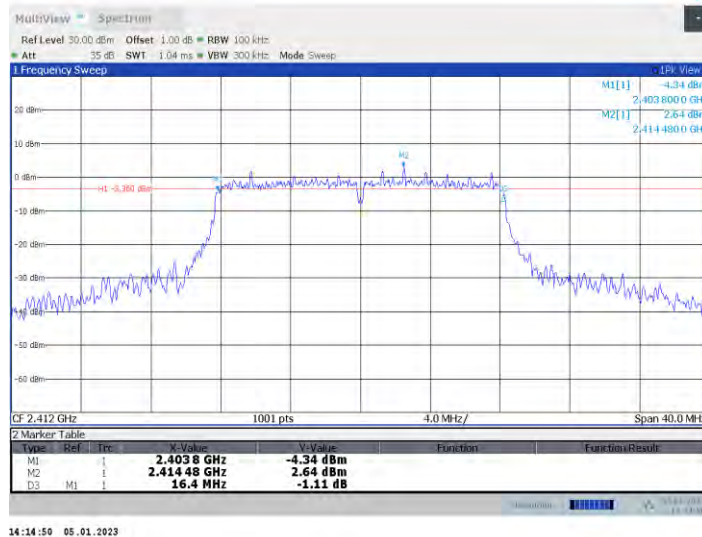
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11b Ant1 2462



11g Ant1 2412

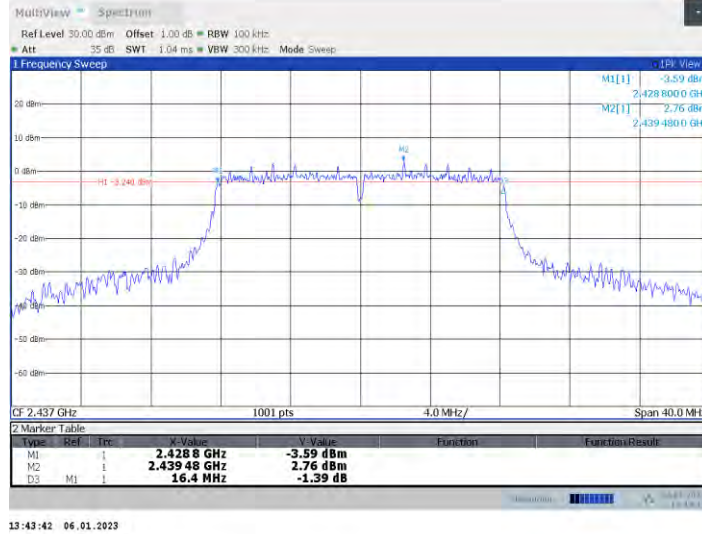


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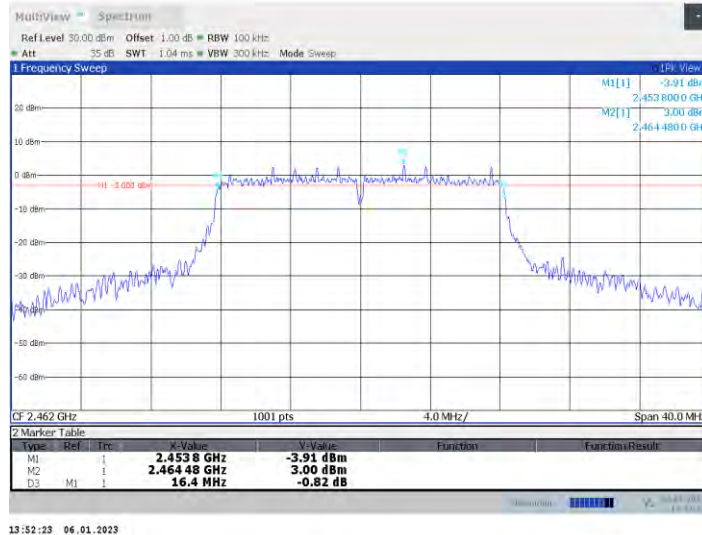
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11g Ant1 2437



11g Ant1 2462

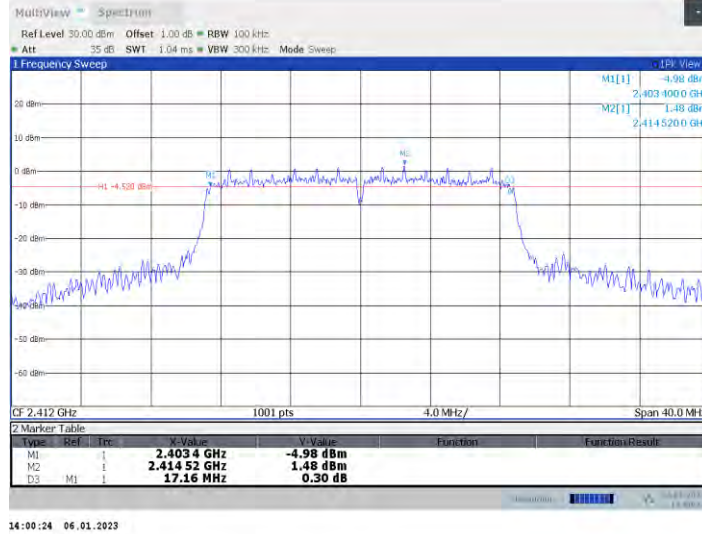


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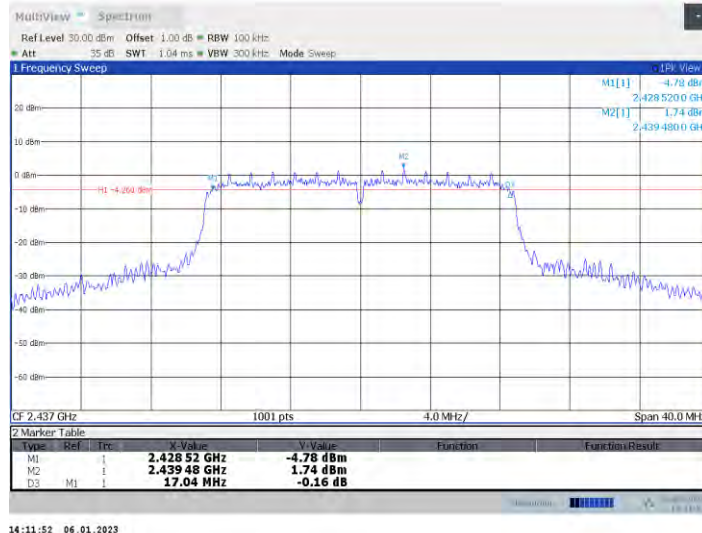
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11n20SISO\_Ant1\_2412



14:00:24 06.01.2023

11n20SISO\_Ant1\_2437



14:11:52 06.01.2023

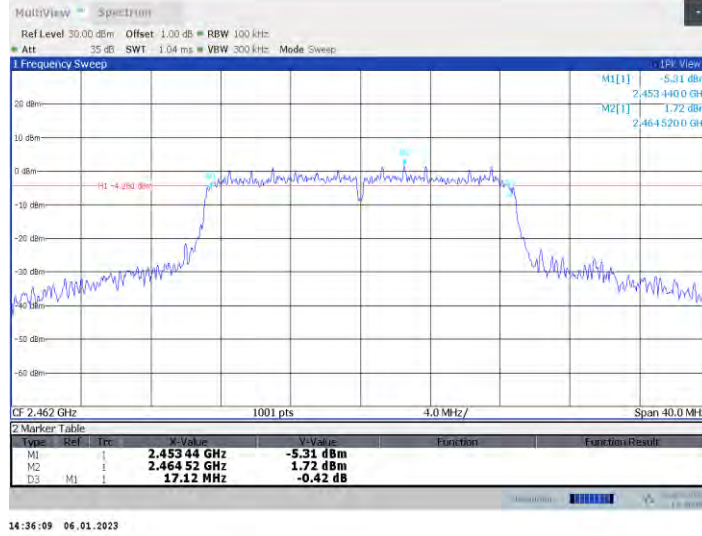


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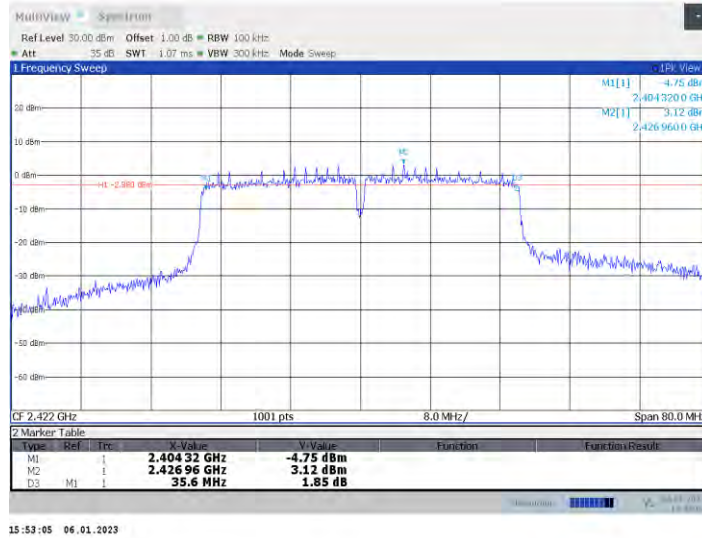
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11n20SISO\_Ant1\_2462



11n40SISO\_Ant1\_2422

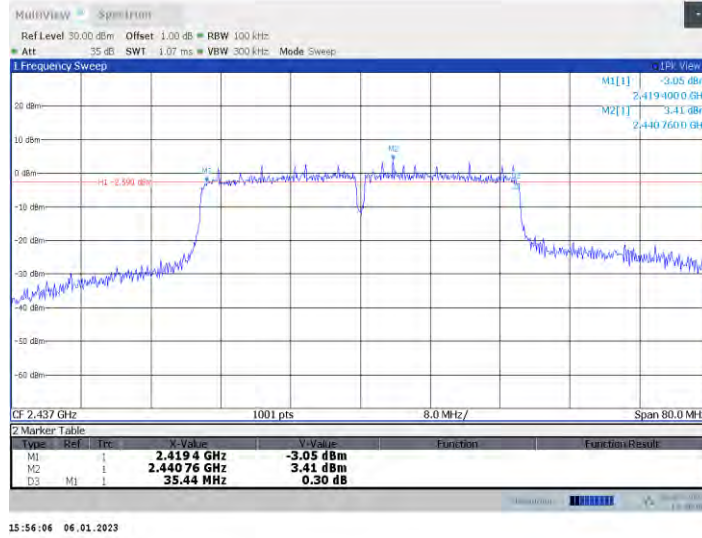


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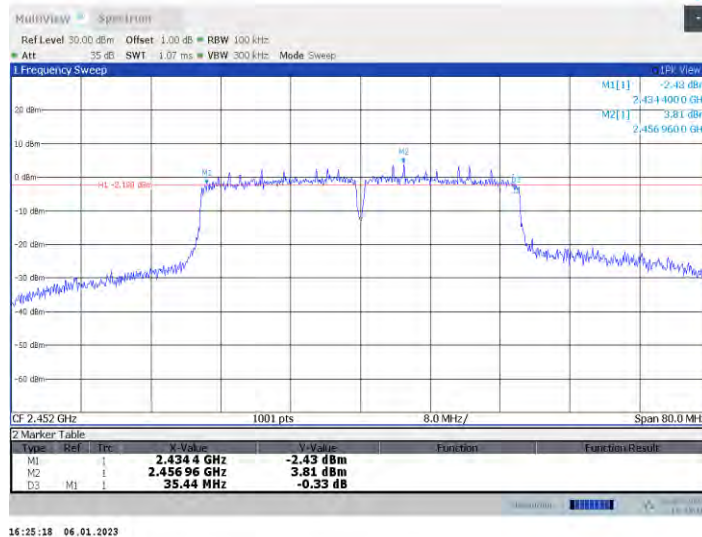
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11n40SISO\_Ant1\_2437



11n40SISO\_Ant1\_2452



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### Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant1	2412	11.682	2406.193	2417.875	Reporting only
		2437	11.707	2431.178	2442.885	
		2462	11.767	2456.134	2467.900	
11g	Ant1	2412	16.936	2403.519	2420.454	
		2437	16.947	2428.520	2445.467	
		2462	16.997	2453.501	2470.498	
11n20SISO	Ant1	2412	17.786	2403.074	2420.860	
		2437	17.793	2428.070	2445.863	
		2462	17.825	2453.065	2470.890	
11n40SISO	Ant1	2422	36.529	2403.937	2440.467	
		2437	36.773	2418.920	2455.693	
		2452	36.794	2433.845	2470.639	

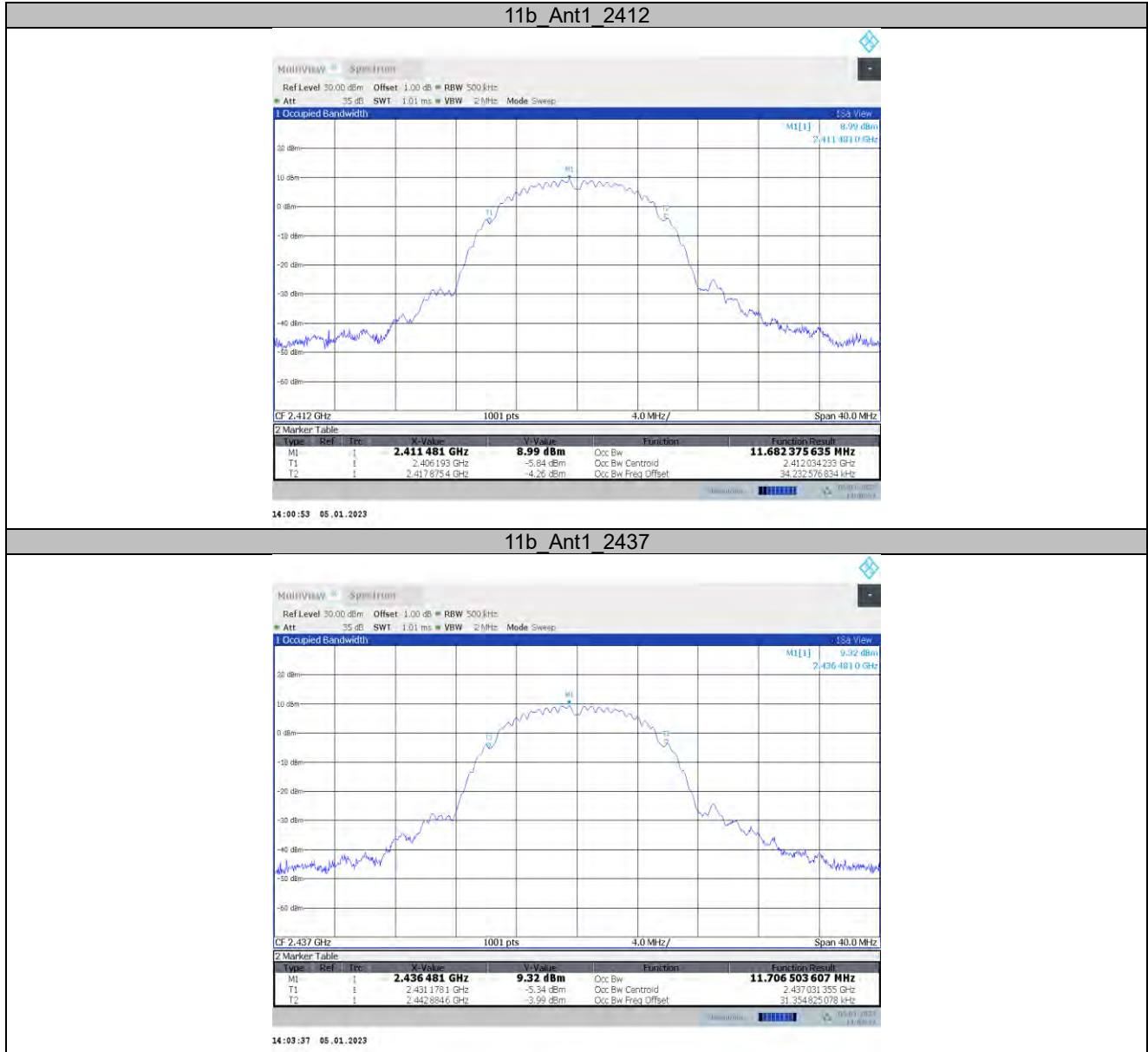


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Test Graphs

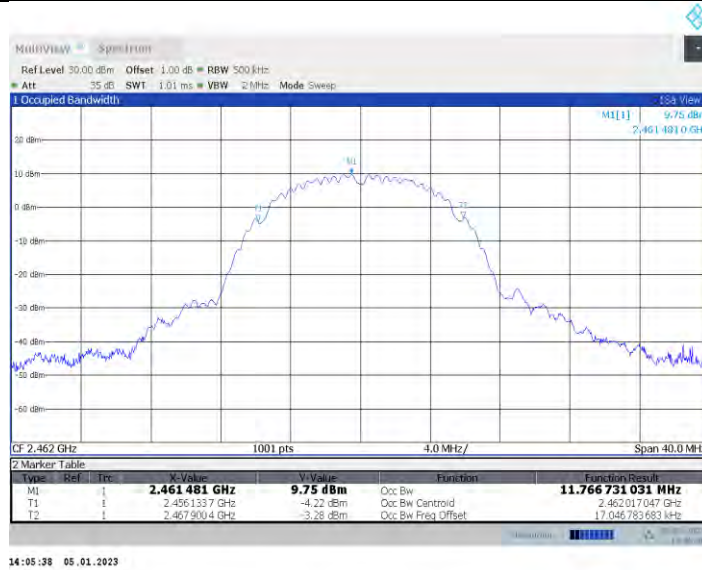


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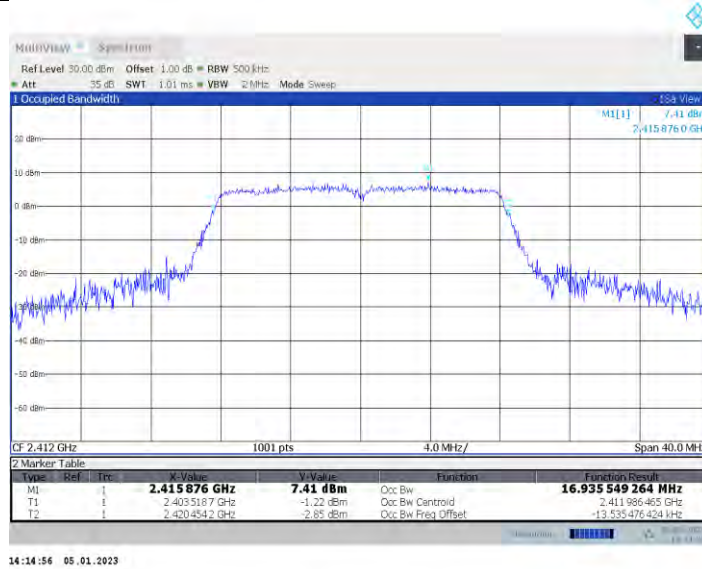
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11b Ant1 2462



11g Ant1 2412



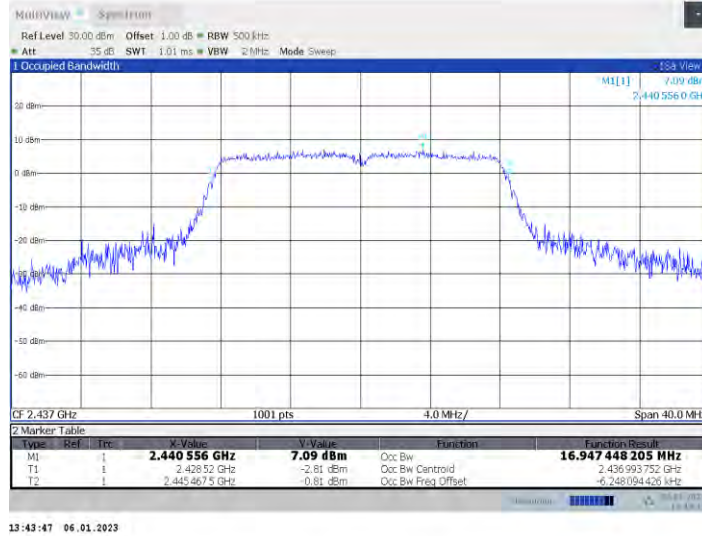
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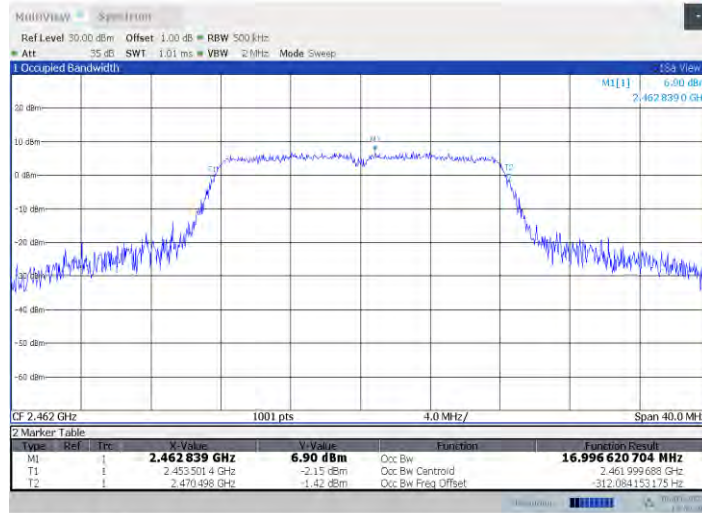


11g Ant1 2437



13:43:47 06.01.2023

11g Ant1 2462



13:52:28 06.01.2023

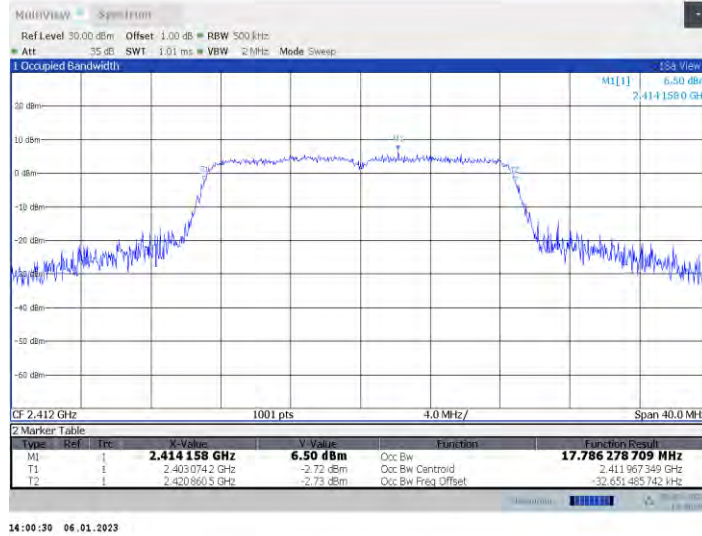


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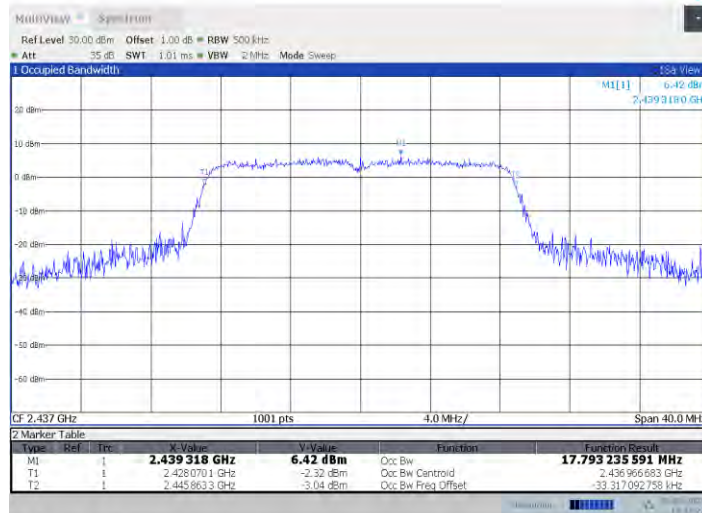
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11n20SISO\_Ant1\_2412



14:00:30 06.01.2023

11n20SISO\_Ant1\_2437



14:13:22 06.01.2023

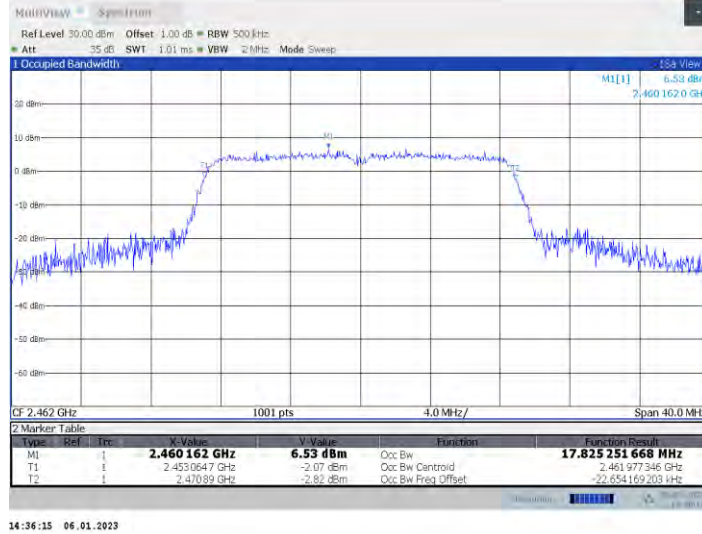


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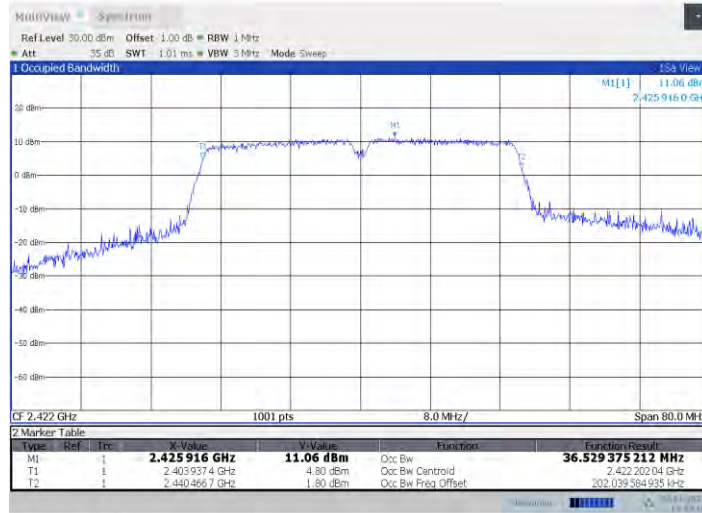
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11n20SISO\_Ant1\_2462



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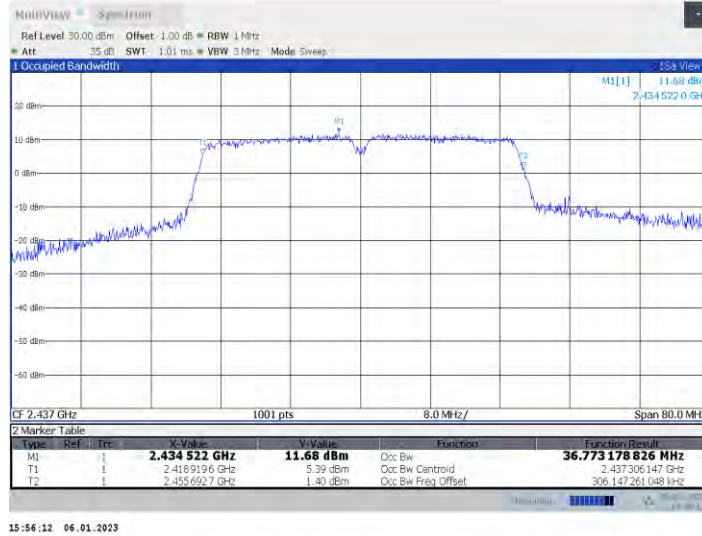


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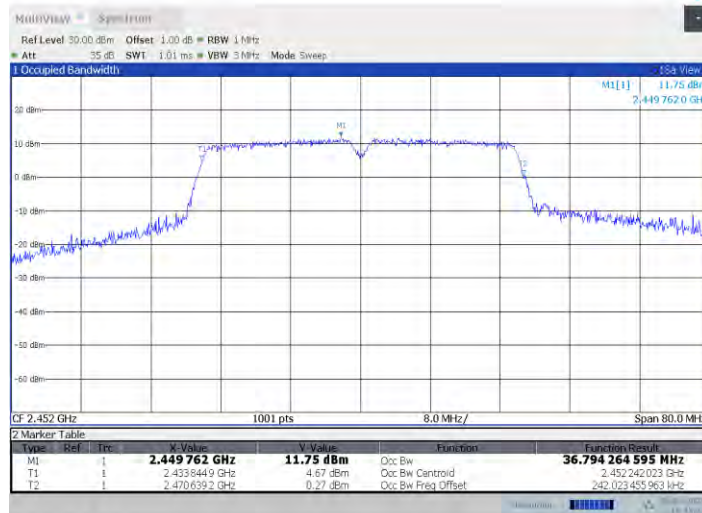
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16:25:24 06.01.2023



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Report No.: SEWM2212000302RG03

Rev.: 01

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**Maximum conducted output power  
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant1	2412	20.88	≤30.00	PASS
		2437	21.32	≤30.00	PASS
		2462	21.62	≤30.00	PASS
11g	Ant1	2412	21.82	≤30.00	PASS
		2437	21.96	≤30.00	PASS
		2462	22.09	≤30.00	PASS
11n20SISO	Ant1	2412	21.08	≤30.00	PASS
		2437	21.15	≤30.00	PASS
		2462	21.35	≤30.00	PASS
11n40SISO	Ant1	2422	25.44	≤30.00	PASS
		2437	25.88	≤30.00	PASS
		2452	25.93	≤30.00	PASS



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Report No.: SEWM2212000302RG03

Rev.: 01

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**Maximum power spectral density  
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant1	2412	-2.15	≤8.00	PASS
		2437	-2.01	≤8.00	PASS
		2462	-2.48	≤8.00	PASS
11g	Ant1	2412	-11.54	≤8.00	PASS
		2437	-12.22	≤8.00	PASS
		2462	-11.05	≤8.00	PASS
11n20SISO	Ant1	2412	-12.18	≤8.00	PASS
		2437	-12.73	≤8.00	PASS
		2462	-12.04	≤8.00	PASS
11n40SISO	Ant1	2422	-10.86	≤8.00	PASS
		2437	-11.54	≤8.00	PASS
		2452	-10.73	≤8.00	PASS



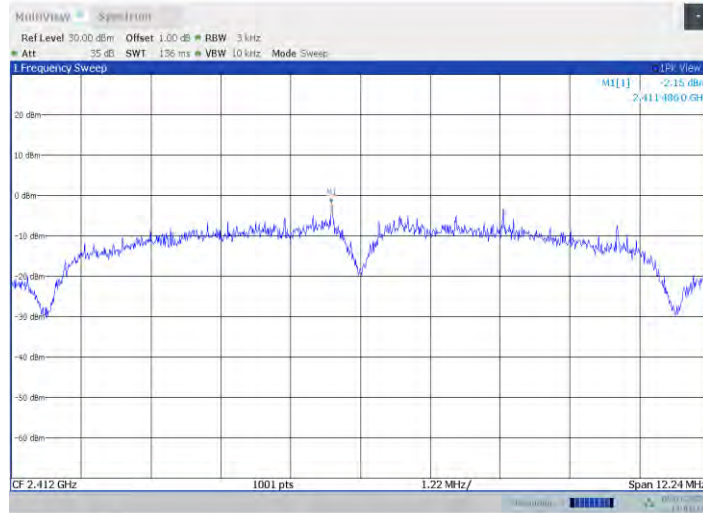
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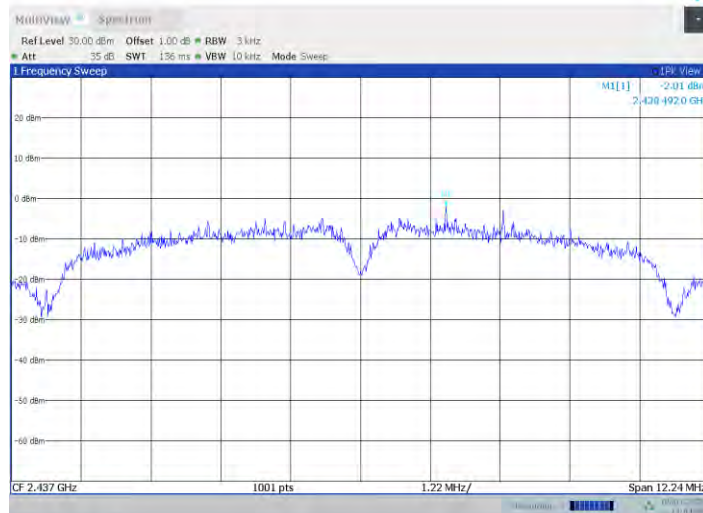
Test Graphs

11b Ant1 2412



14:01:17 05.01.2023

11b Ant1 2437



14:04:00 05.01.2023

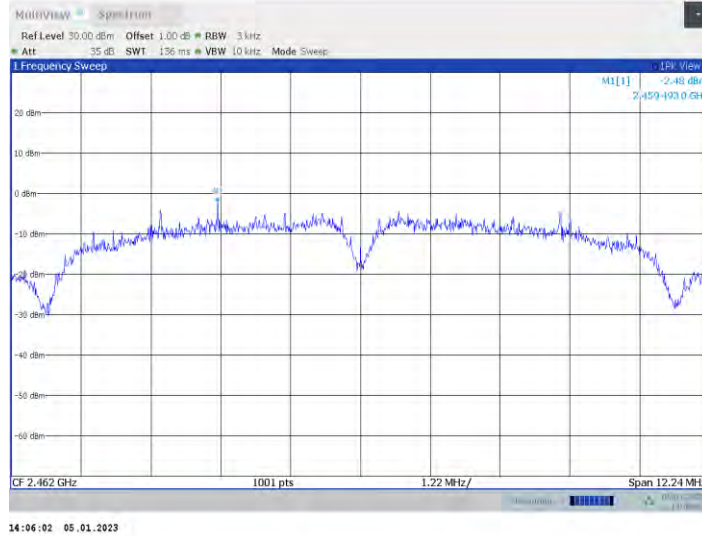


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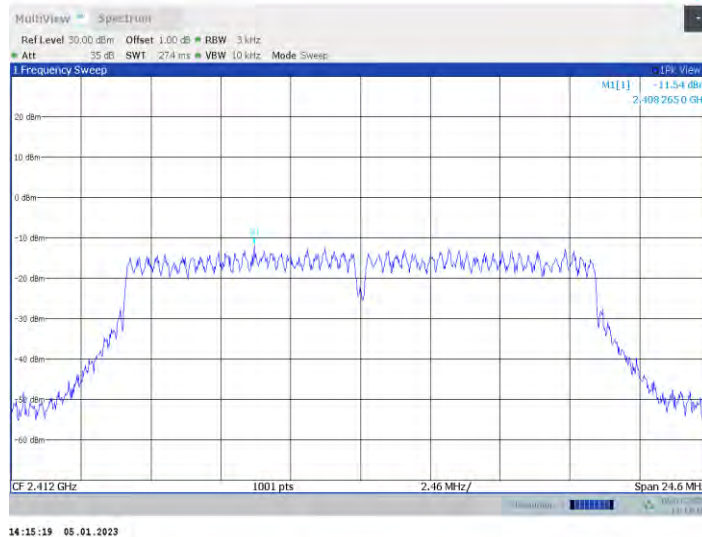
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11b Ant1 2462



11g Ant1 2412



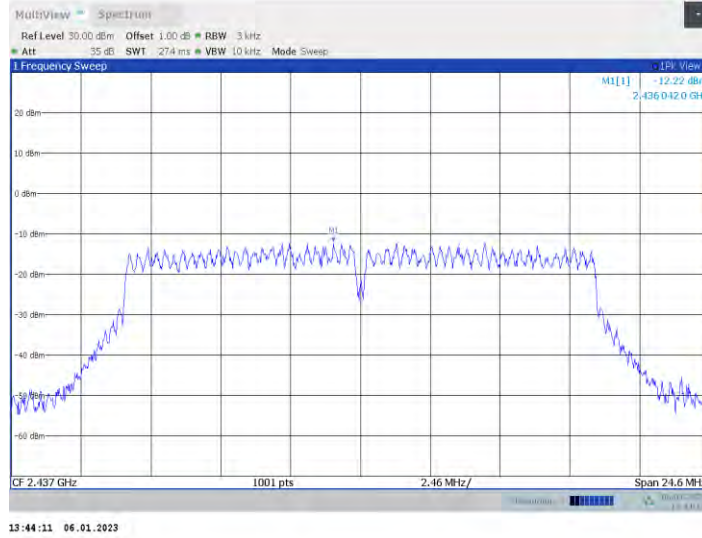
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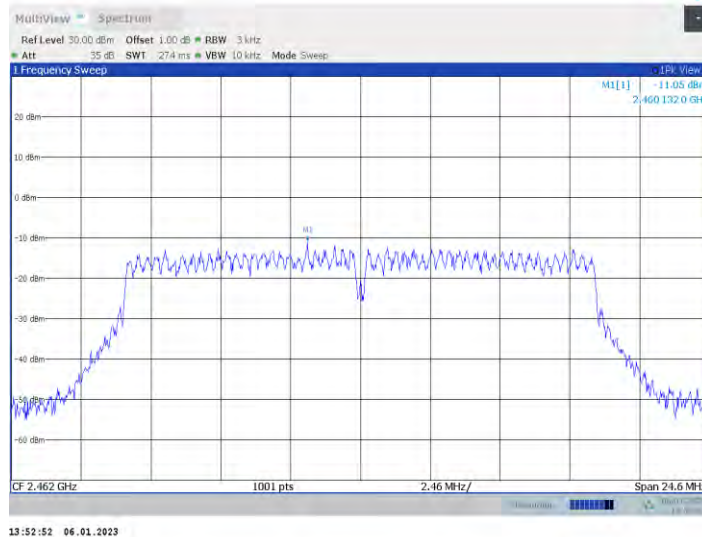
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11g Ant1 2437



11g Ant1 2462

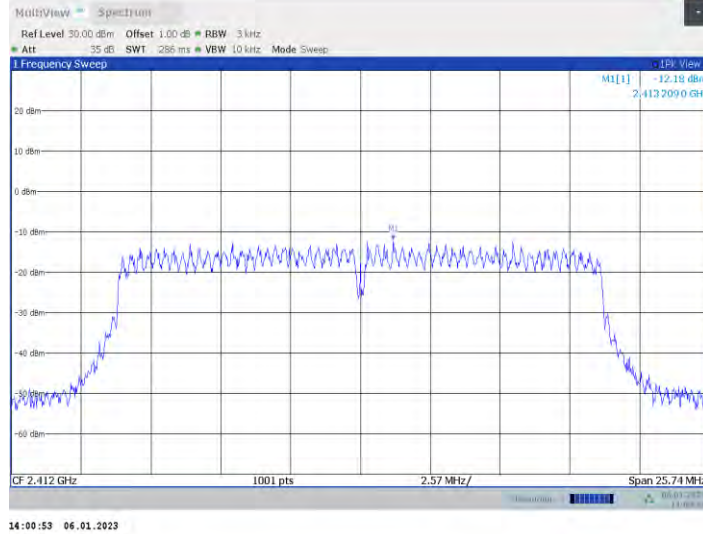


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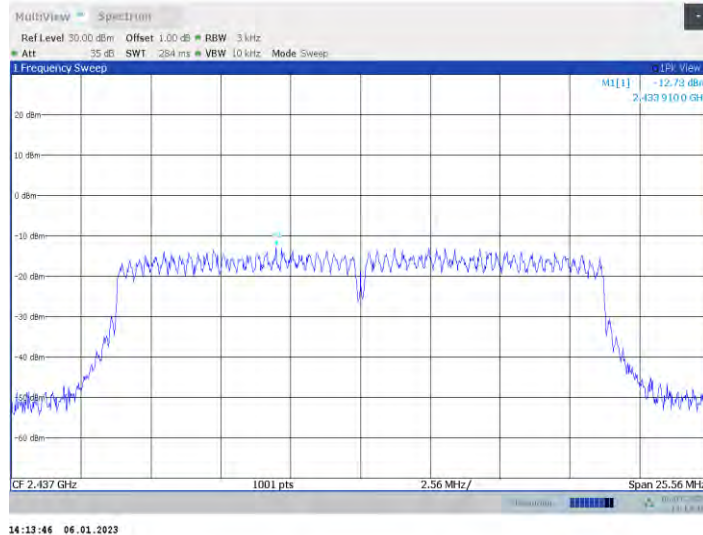
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11n20SISO\_Ant1\_2412



11n20SISO\_Ant1\_2437

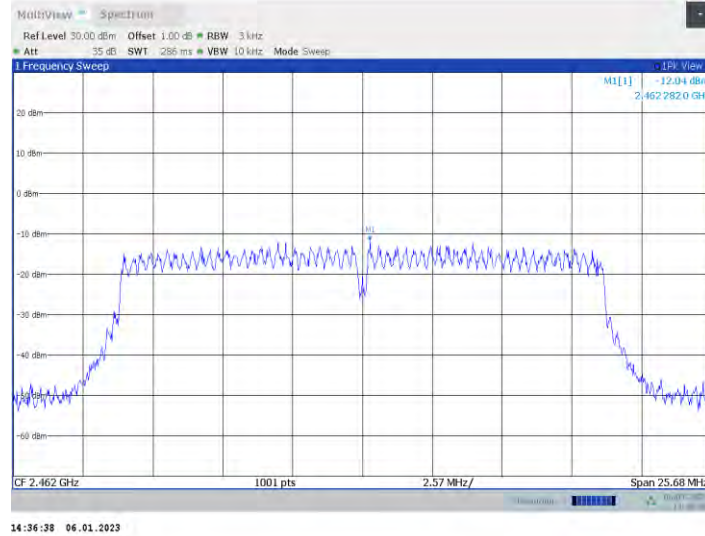


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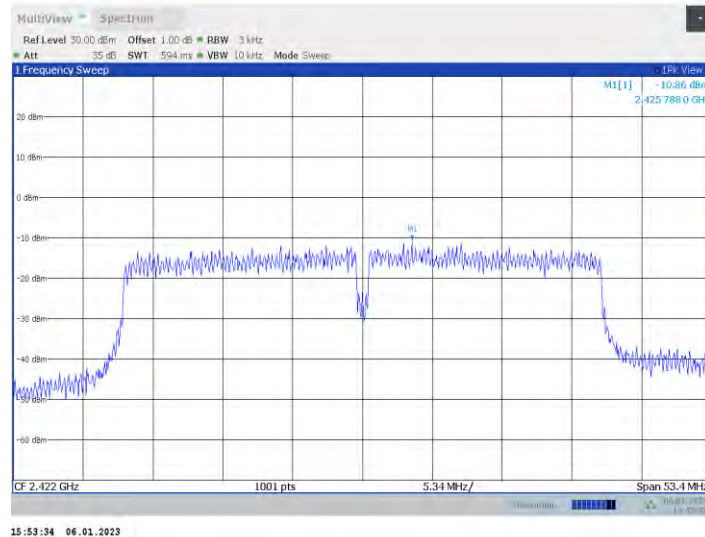
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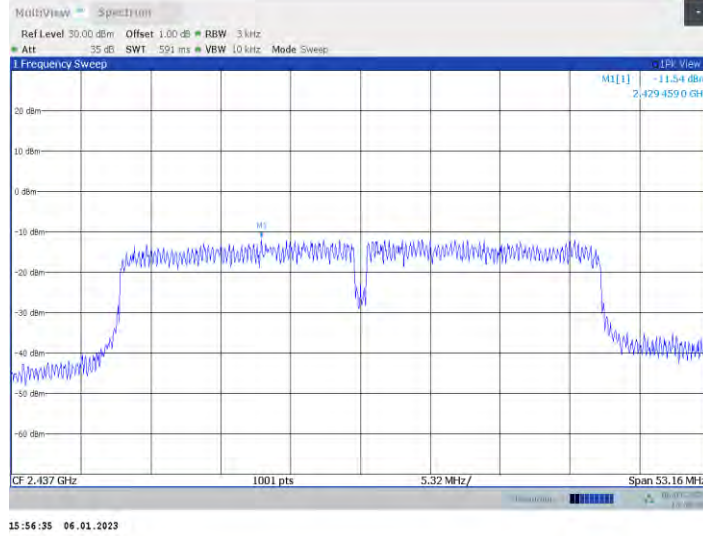


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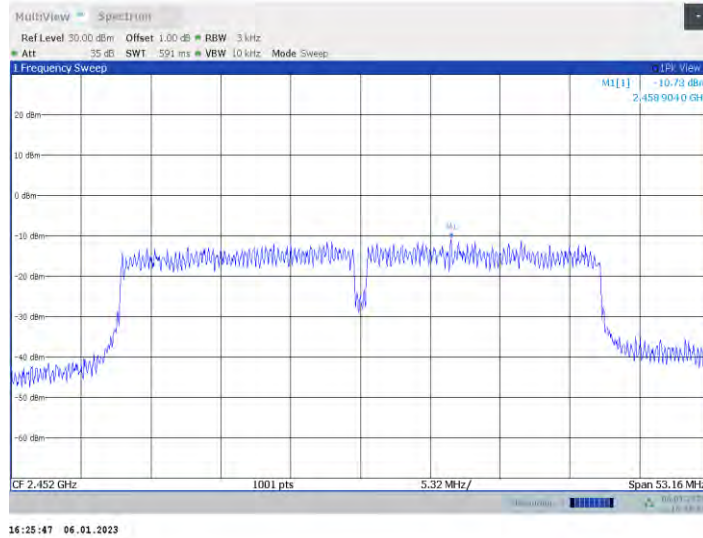
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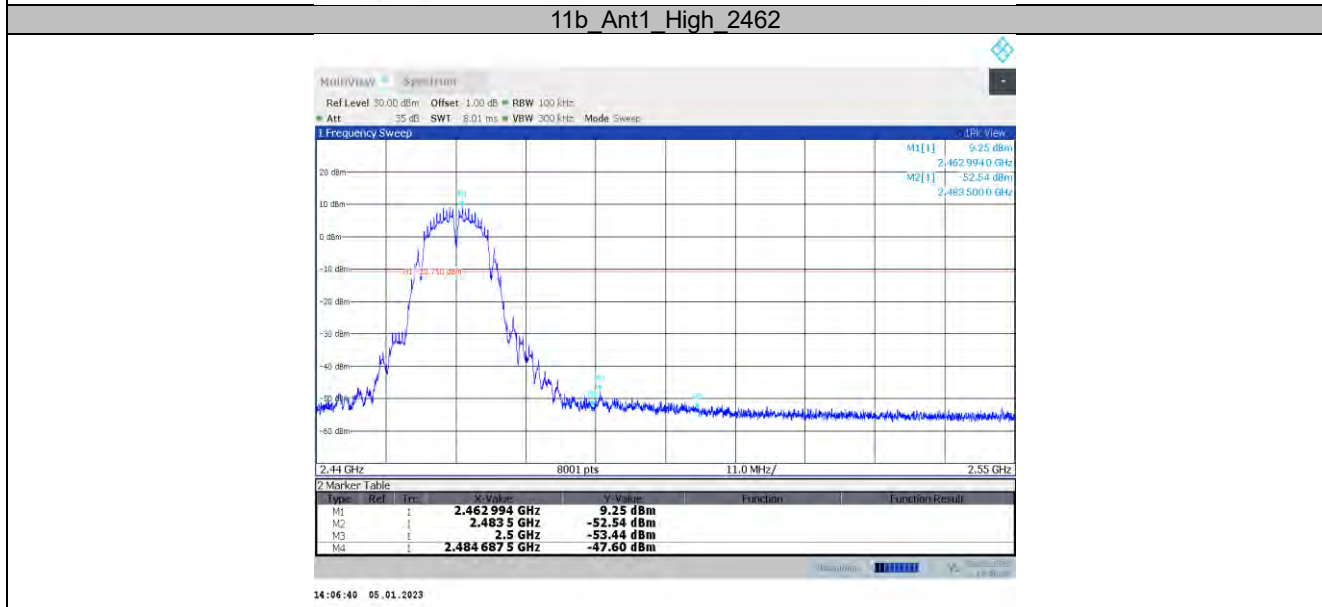
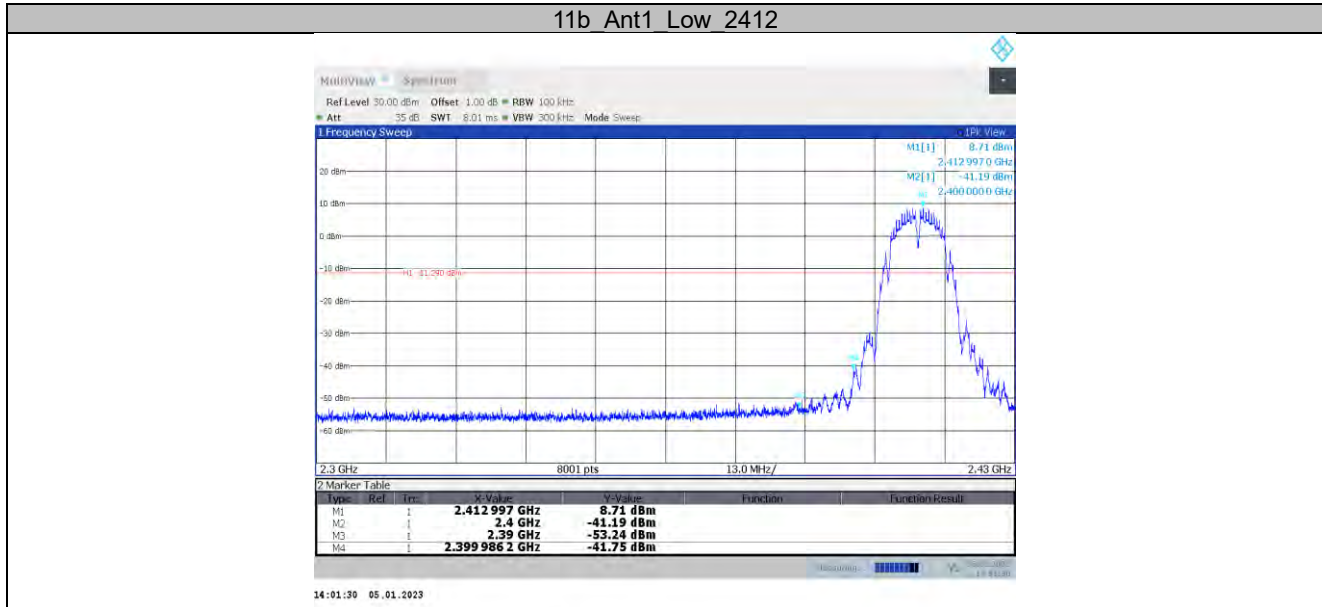


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### Band edge measurements Test Graphs

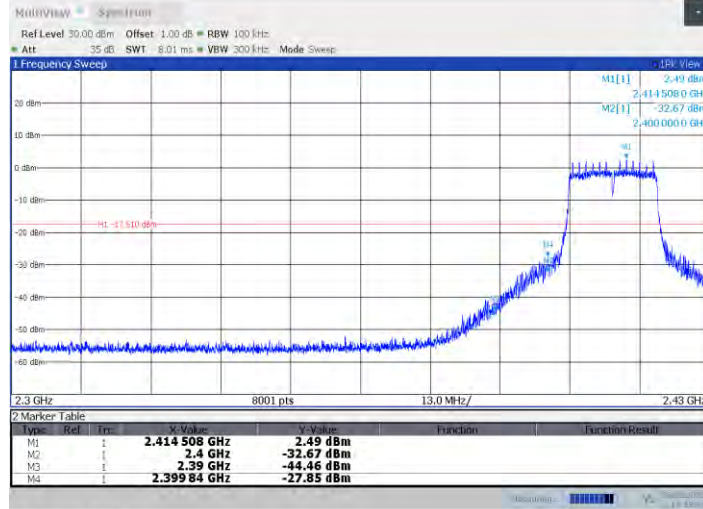


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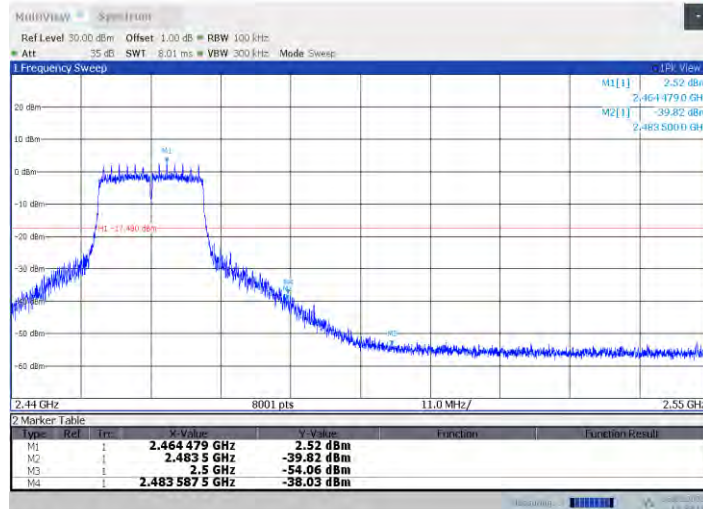
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11g Ant1 Low 2412



14:15:32 05.01.2023

11g Ant1 High 2462



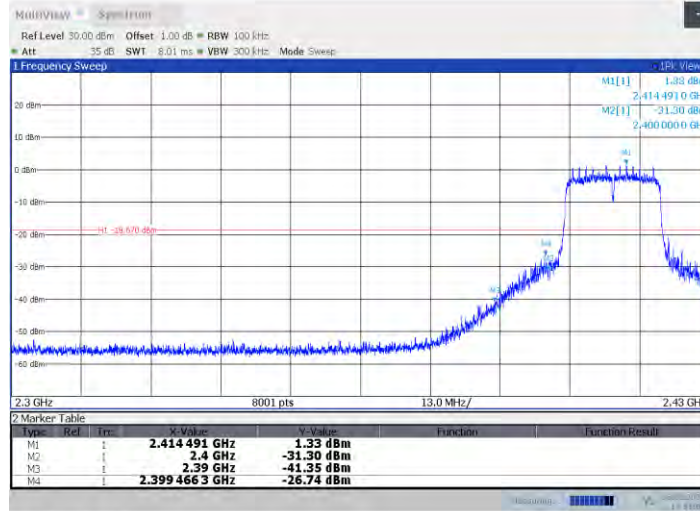
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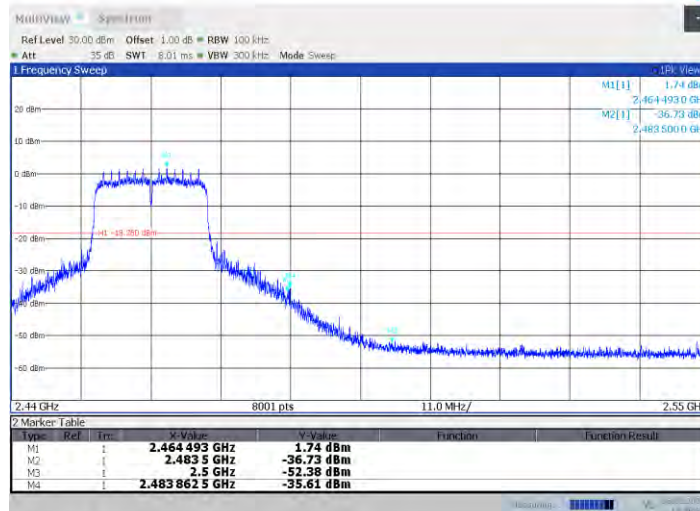
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### 11n20SISO\_Ant1\_Low\_2412



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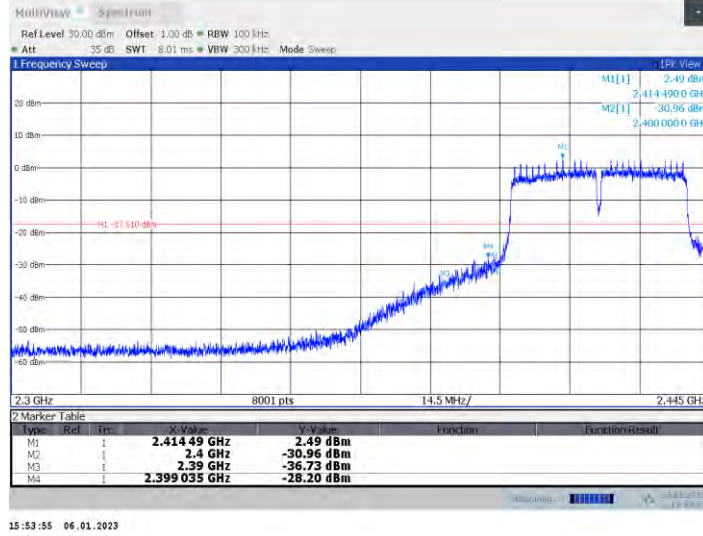
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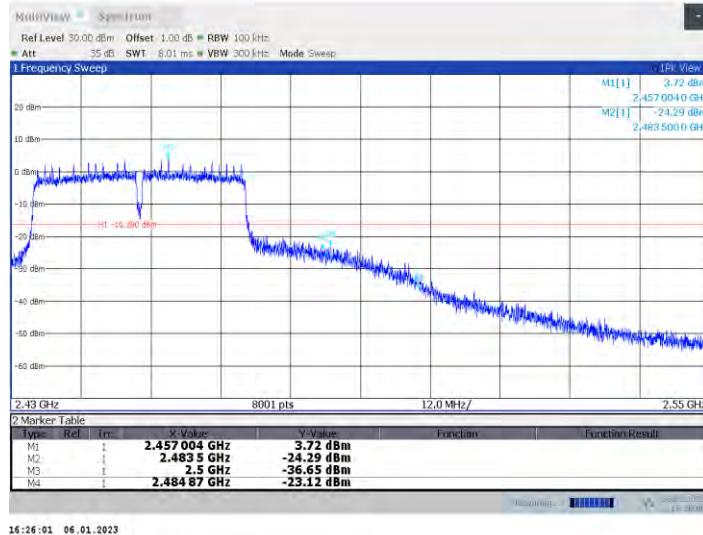
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11n40SISO\_Ant1\_Low\_2422



11n40SISO\_Ant1\_High\_2452



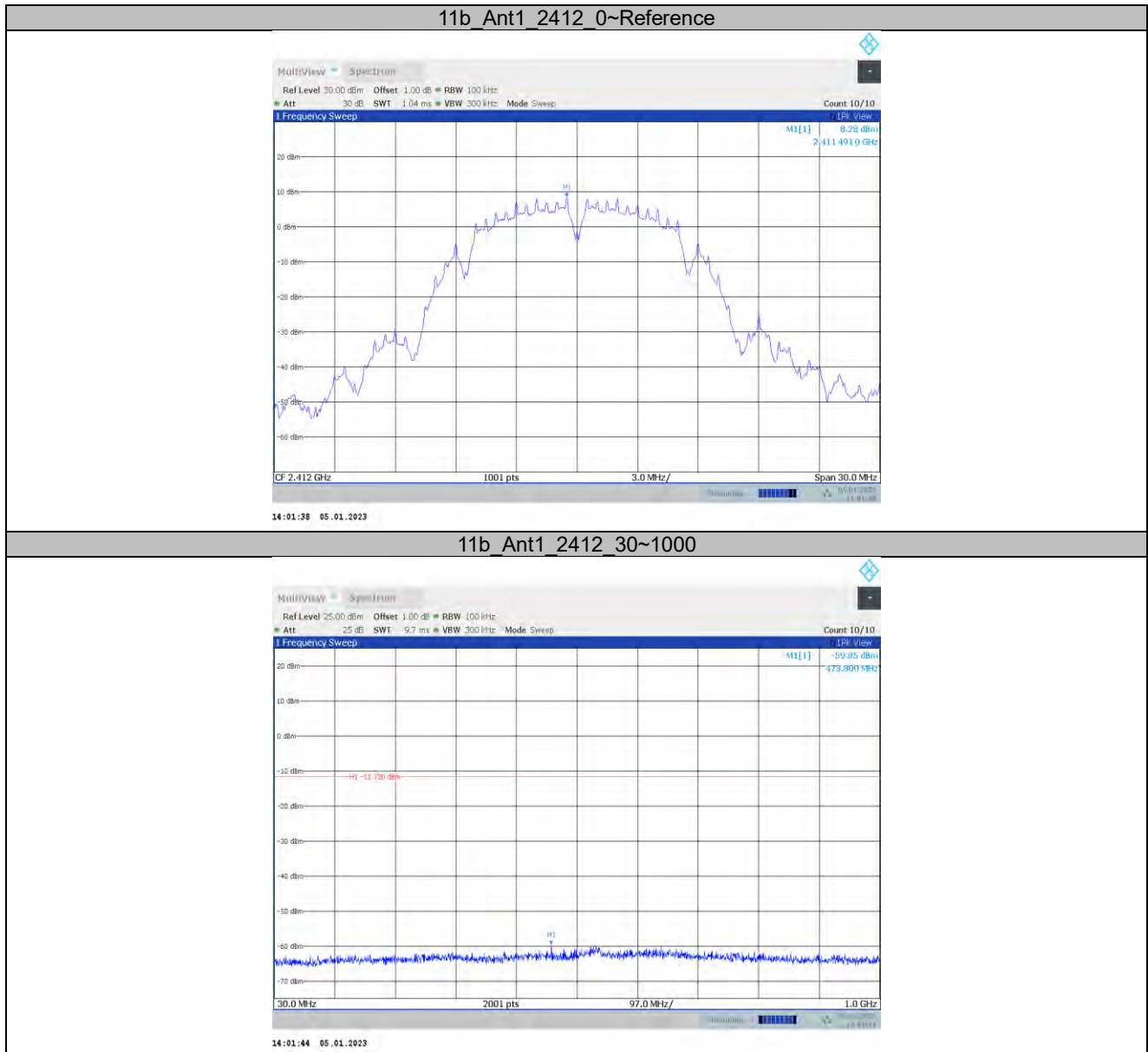
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### Conducted Spurious Emission Test Graphs

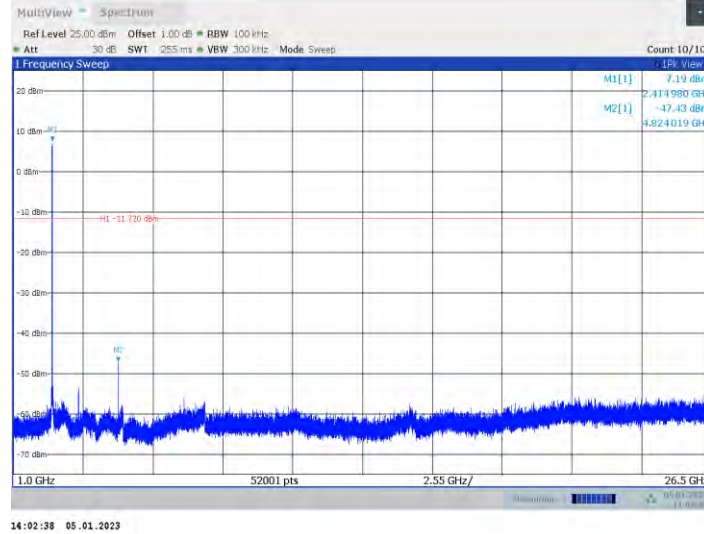


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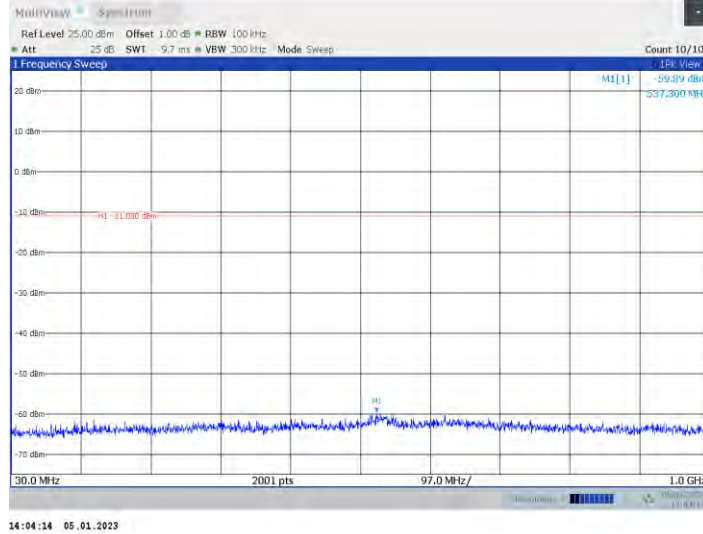


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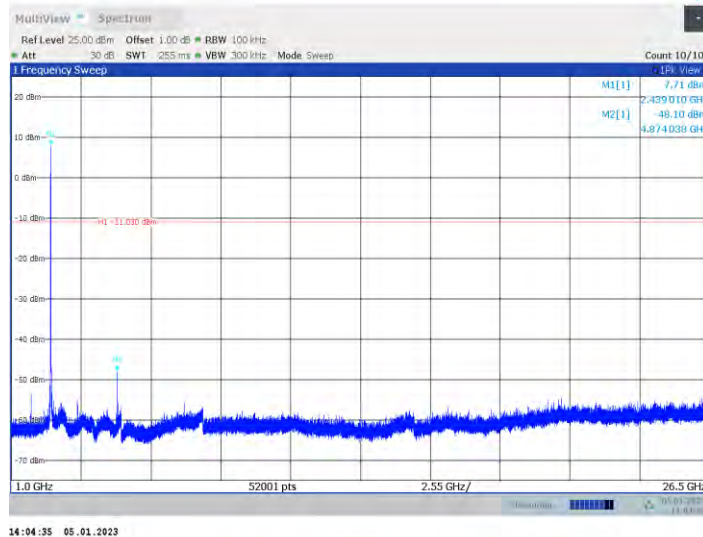
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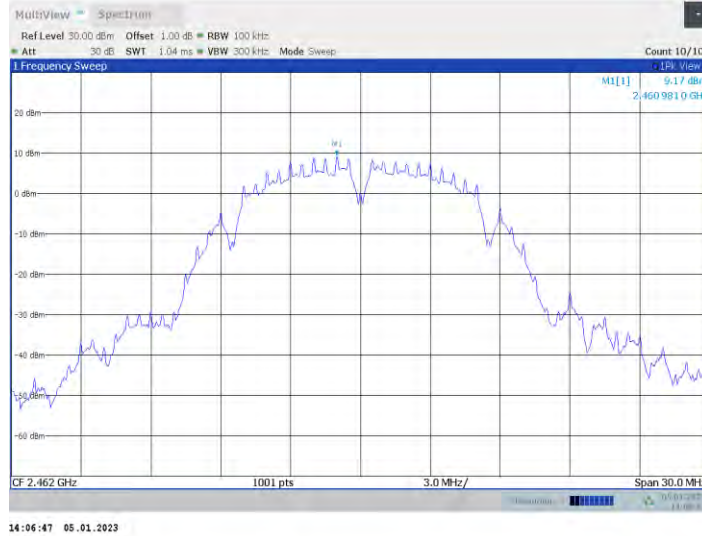


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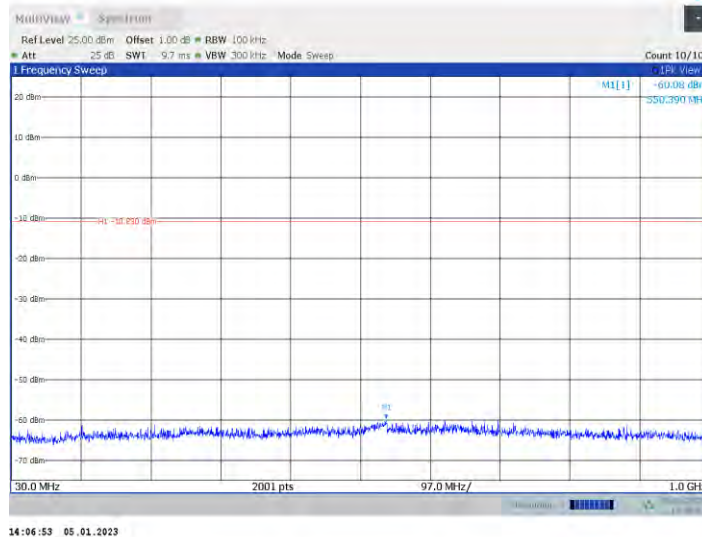
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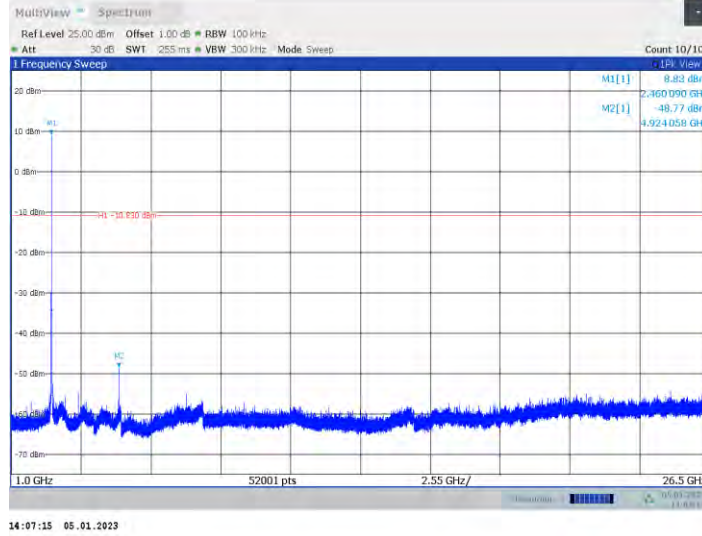


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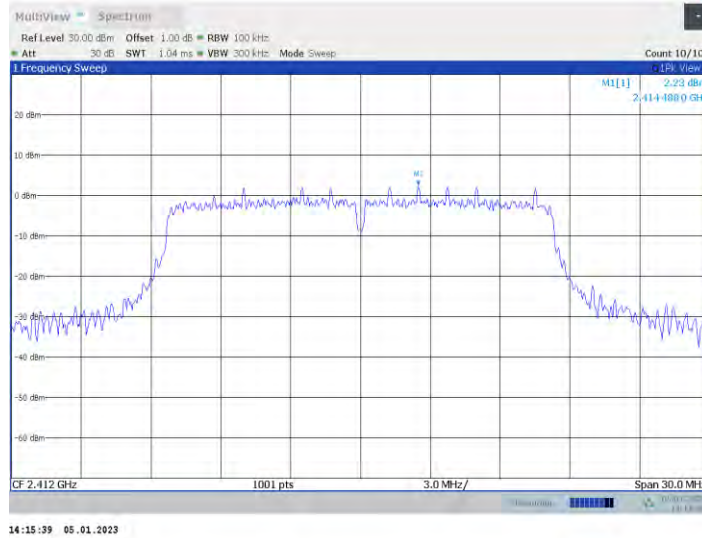
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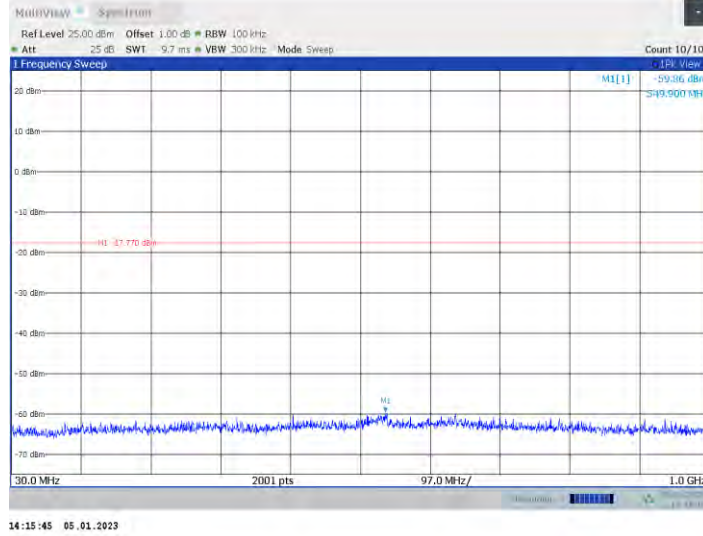


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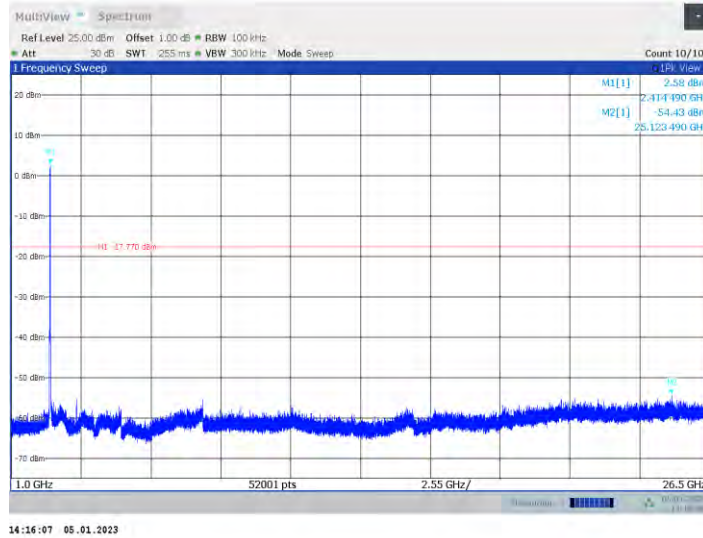
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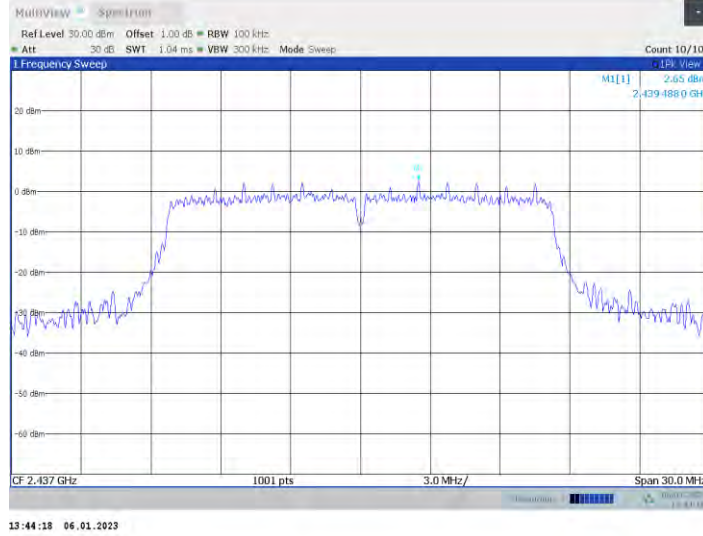


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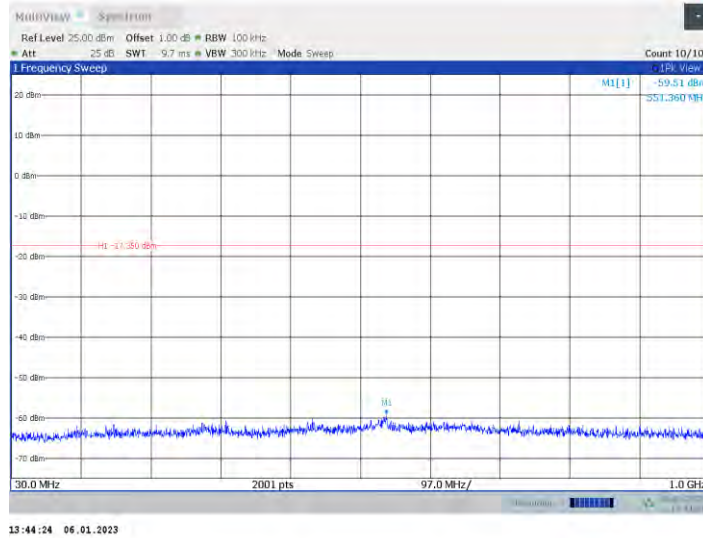
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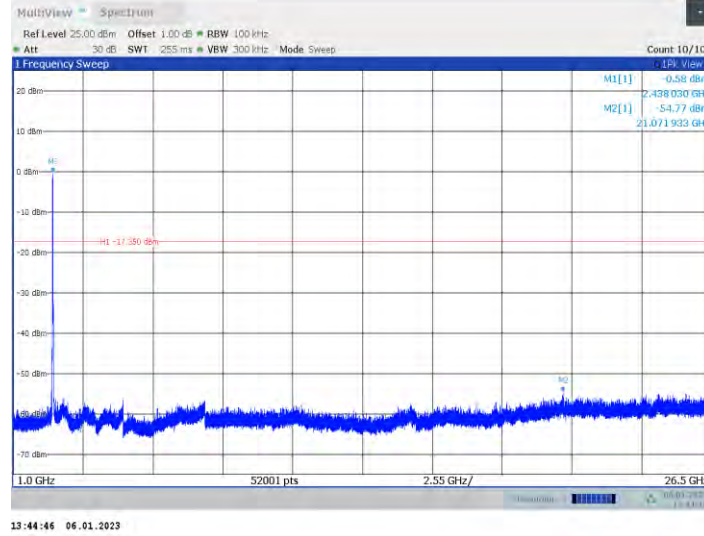


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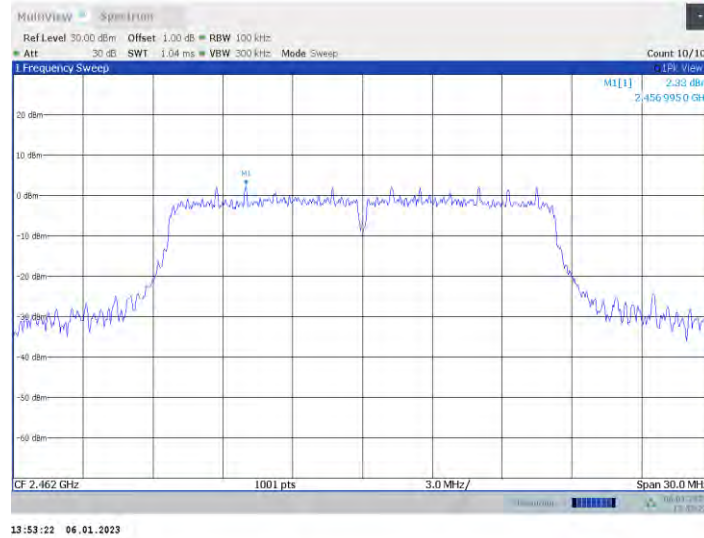
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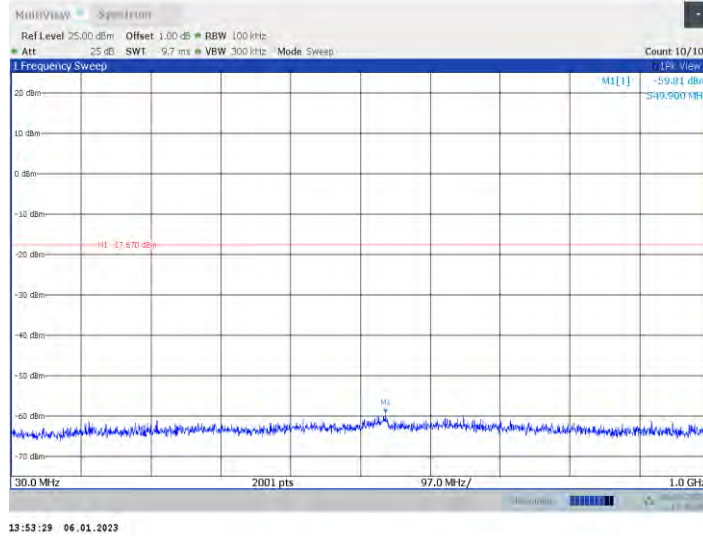
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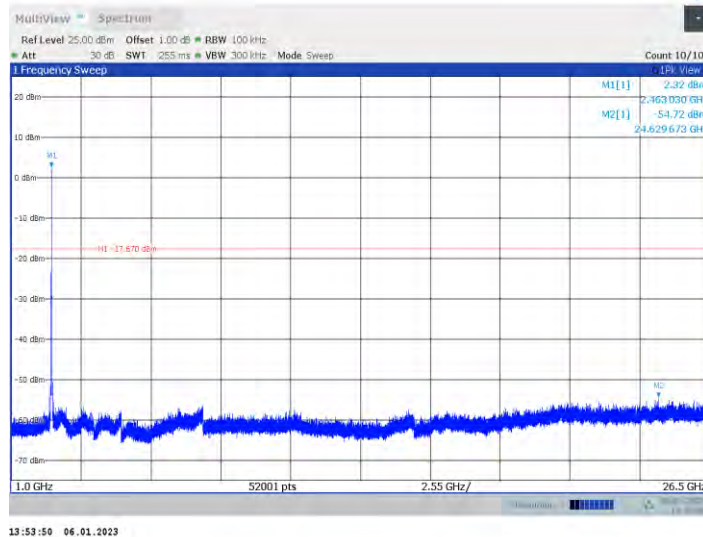
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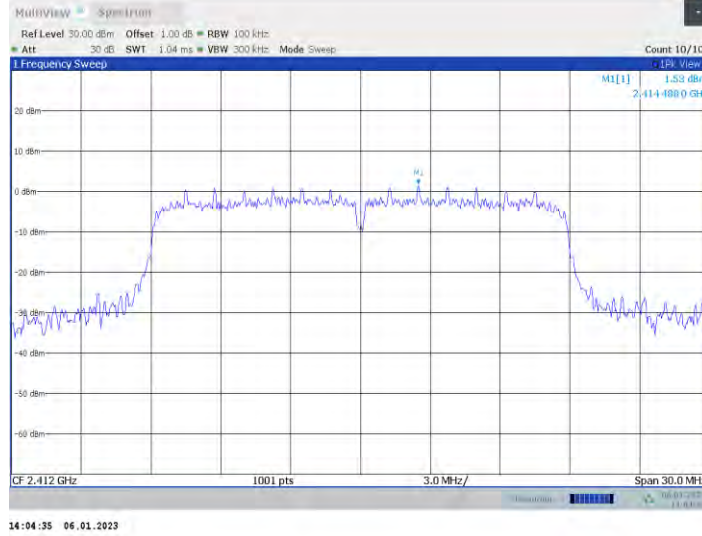


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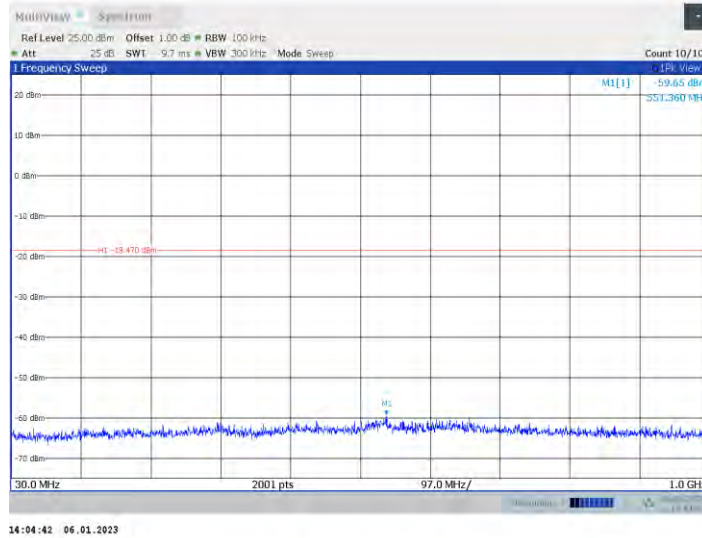
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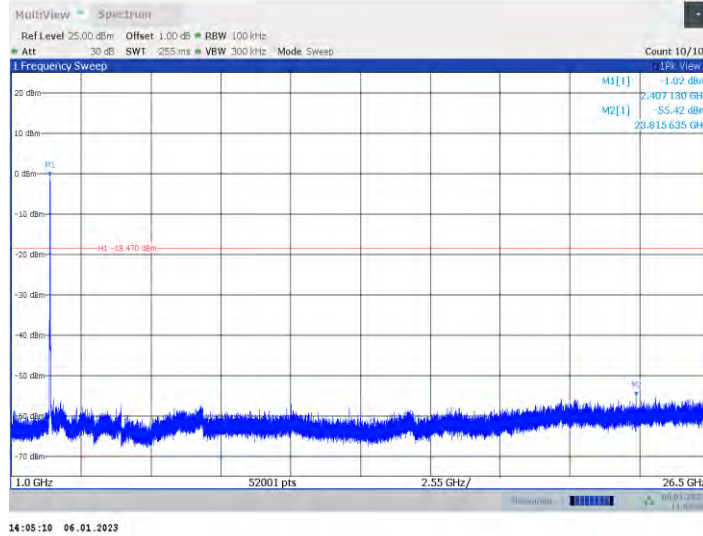


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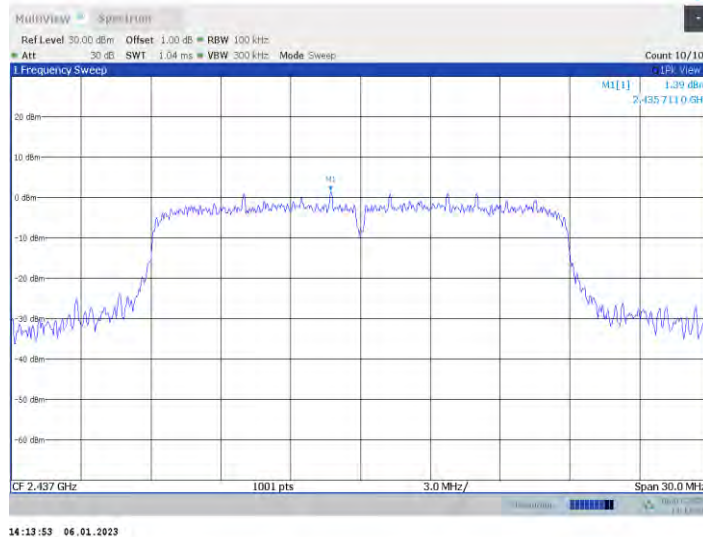
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11n20SISO\_Ant1\_2412\_1000~26500



11n20SISO\_Ant1\_2437\_0~Reference

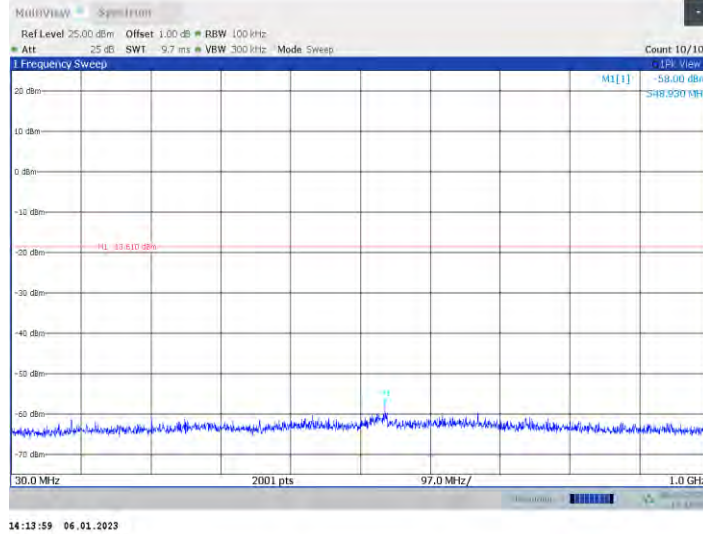


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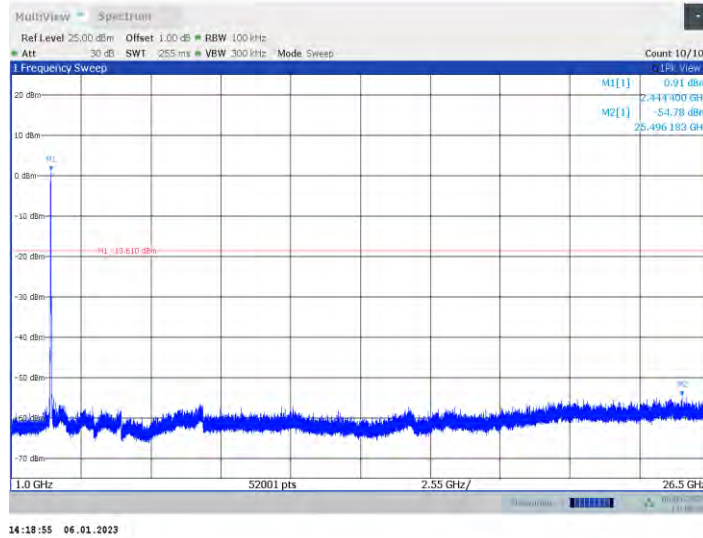
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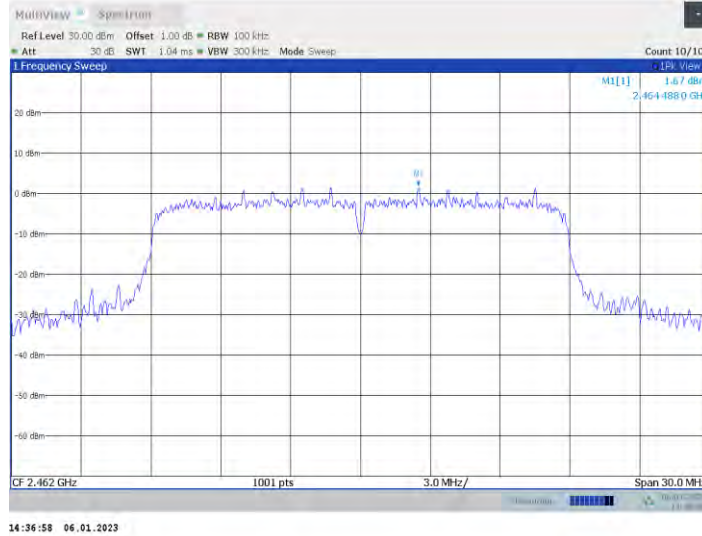


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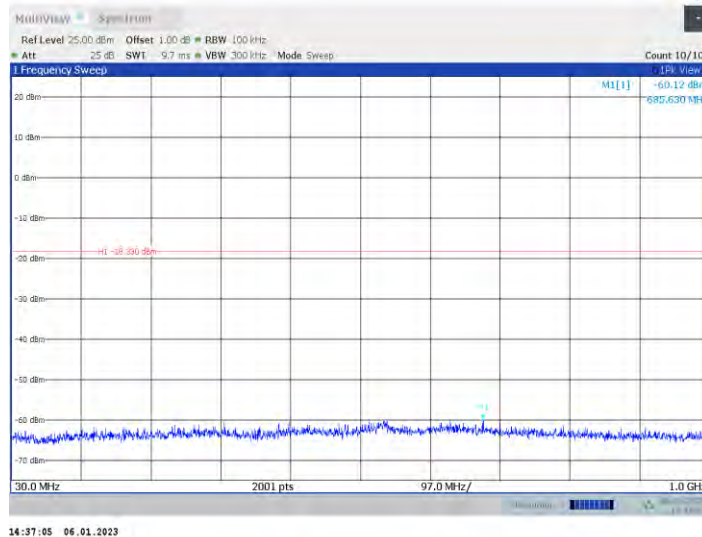
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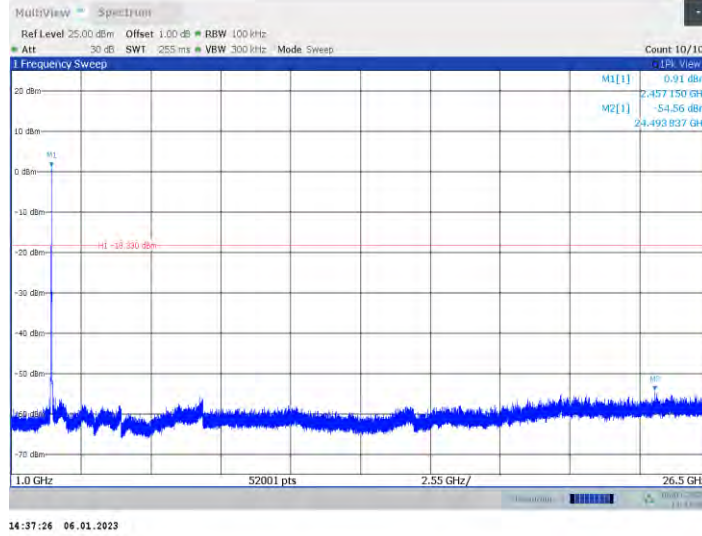


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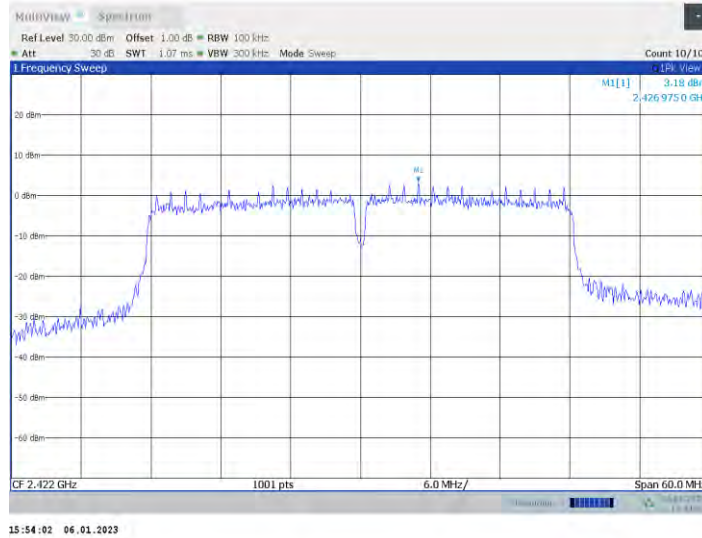
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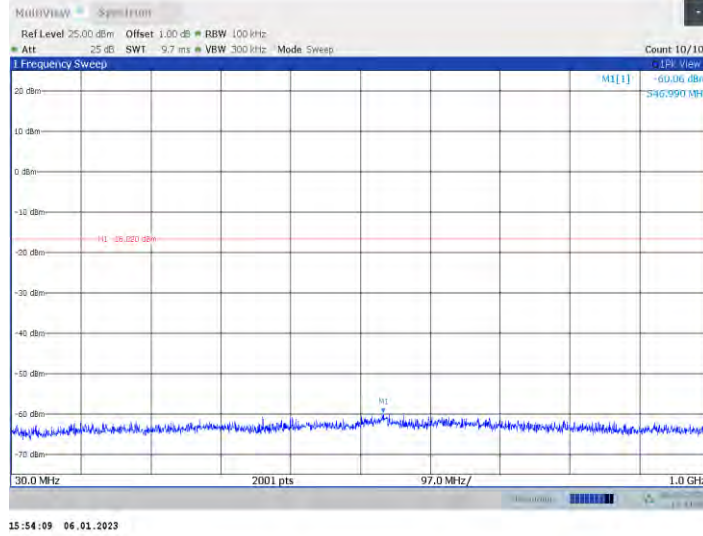


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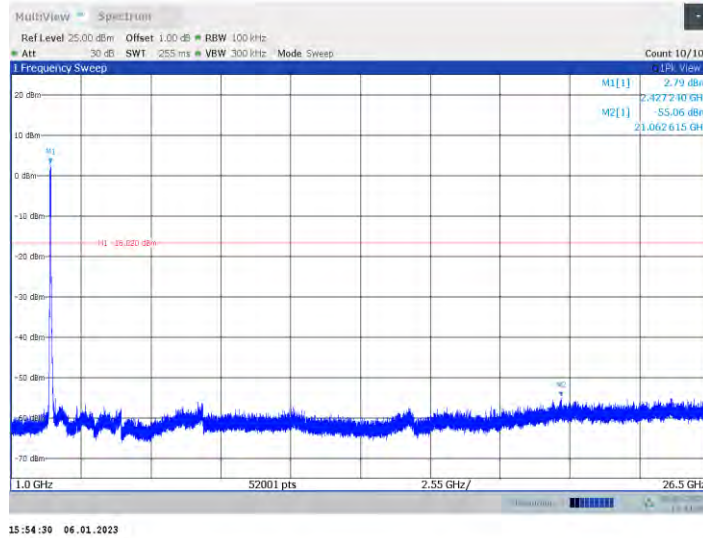
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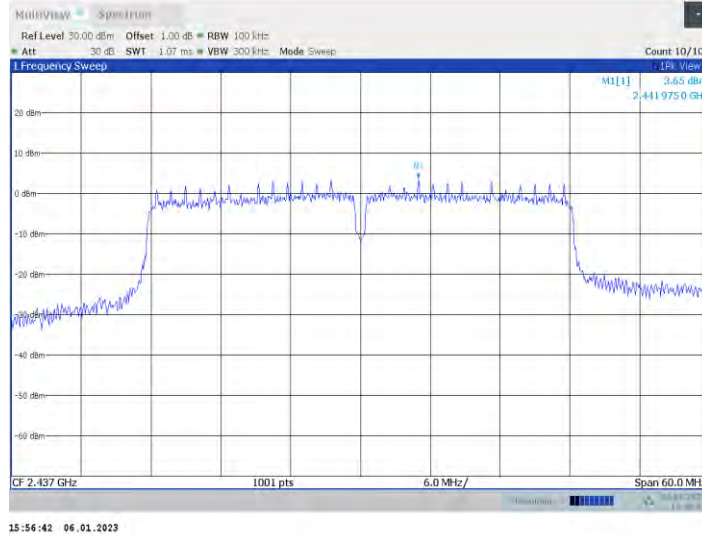


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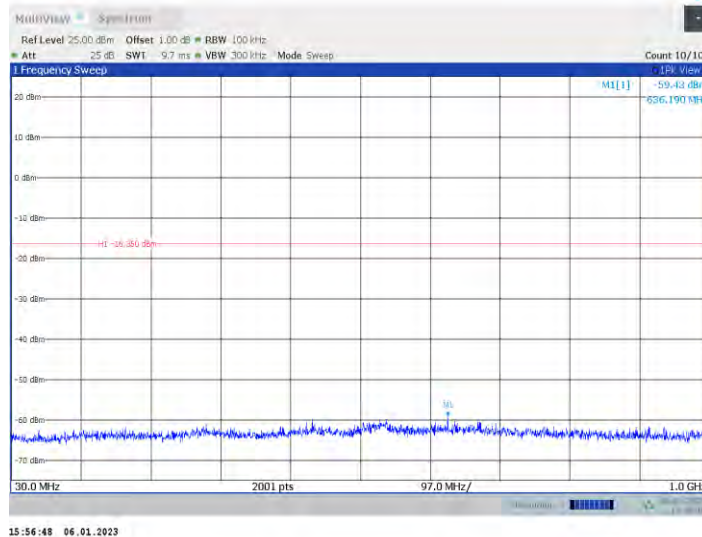
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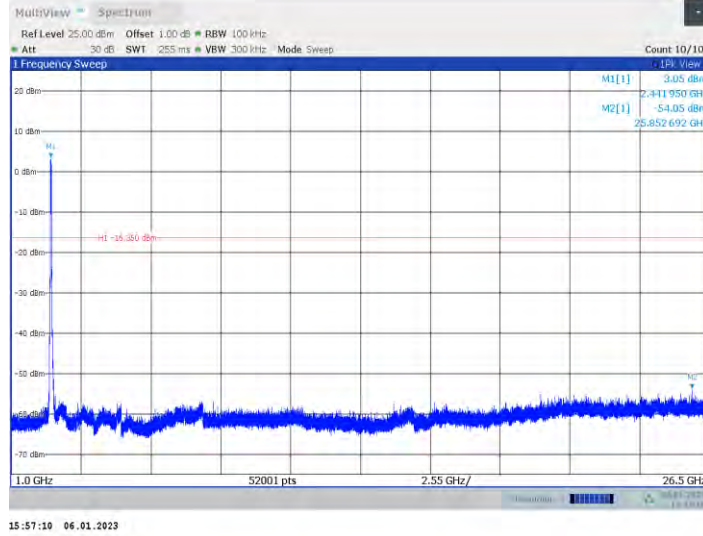
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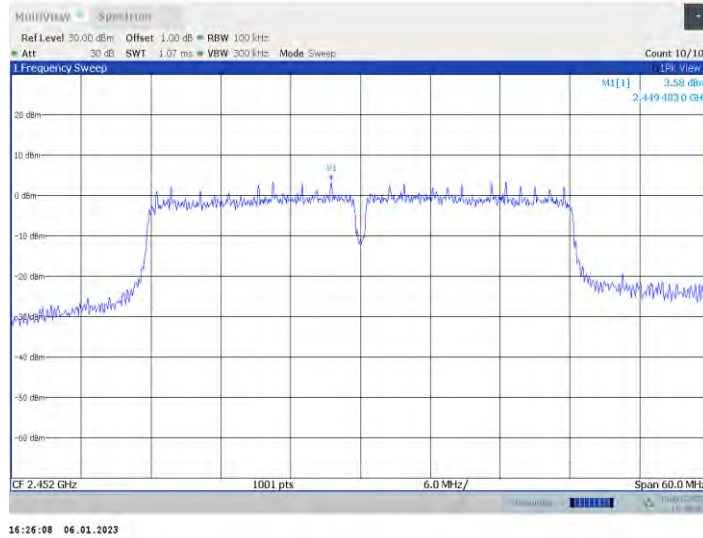
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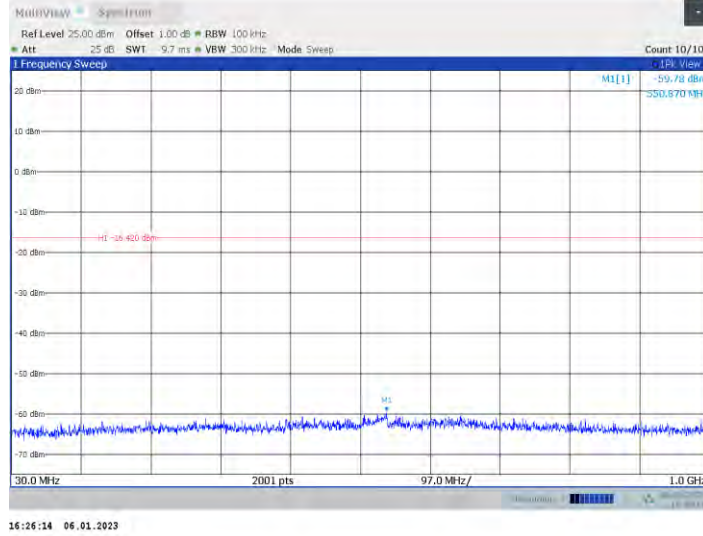
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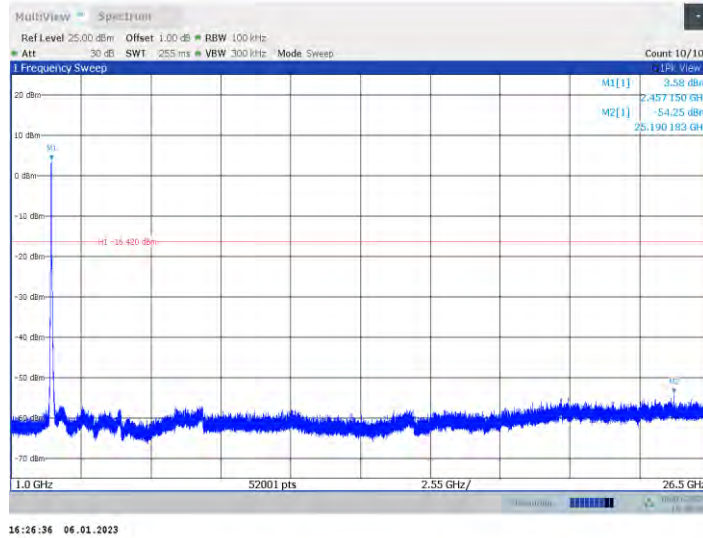
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Report No.: SEWM2212000302RG03

Rev.: 01

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## Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant1	2412	8.41	8.56	98.25
11g	Ant1	2412	1.40	1.55	90.32
11n20SISO	Ant1	2412	1.30	1.45	89.66
11n40SISO	Ant1	2422	0.65	0.80	81.25



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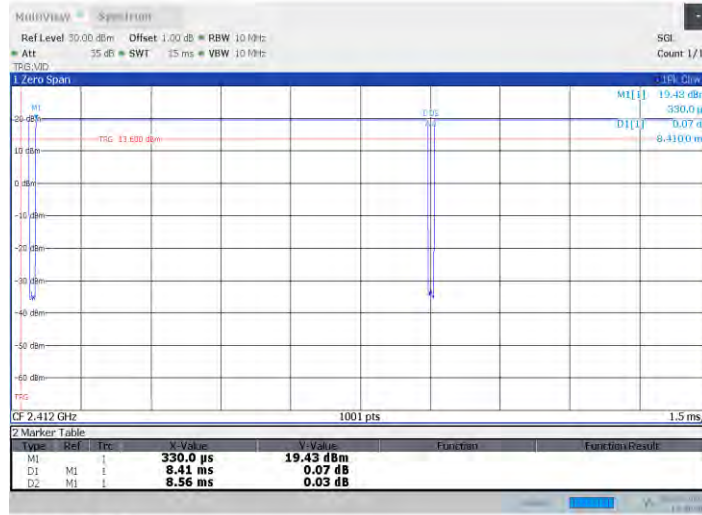
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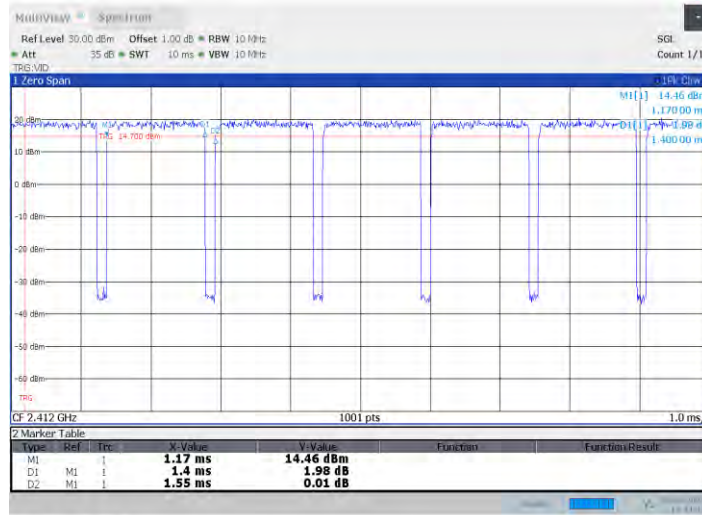
Test Graphs

11b Ant1 2412



14:00:38 05.01.2023

11g Ant1 2412



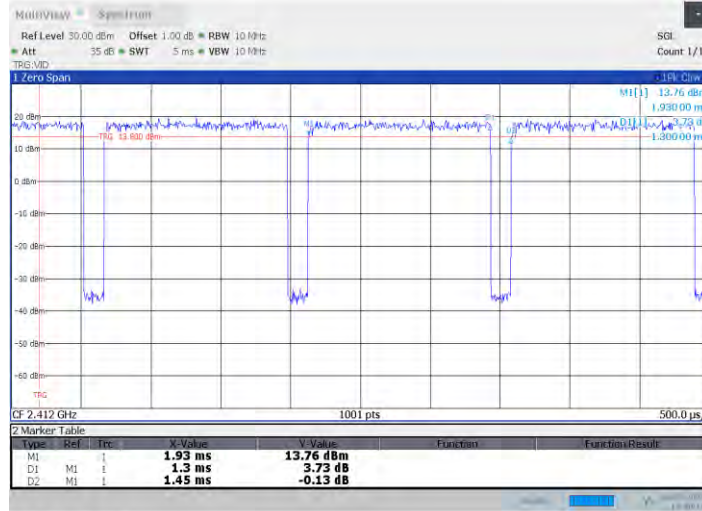
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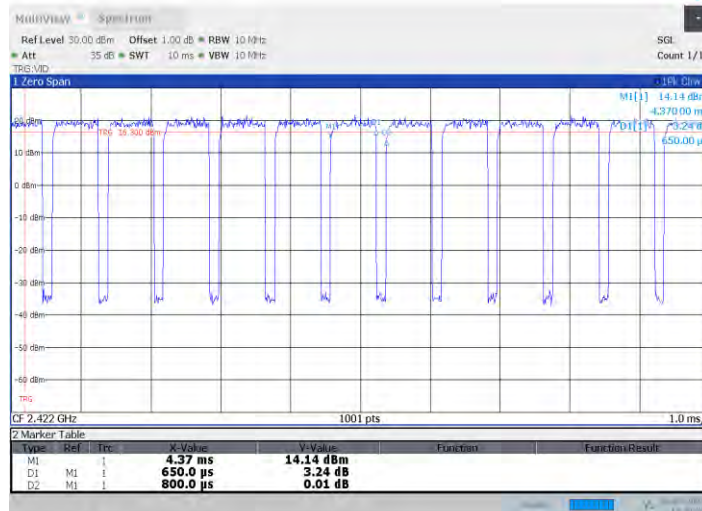
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14:00:15 06.01.2023

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15:52:56 06.01.2023



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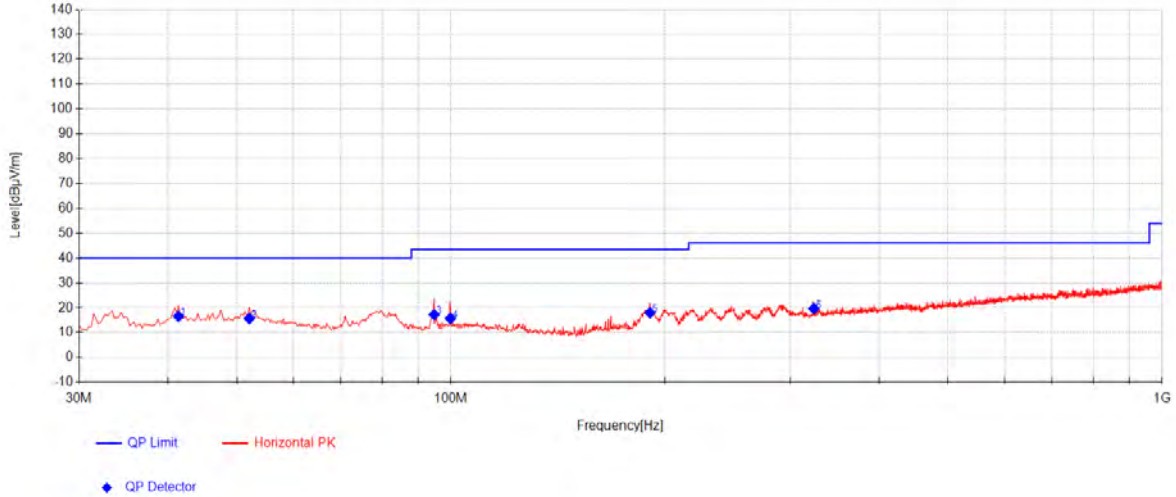
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

#### Worst case Mode: 802.11b\_Channel 06



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	41.3975	32.24	-28.07	12.38	16.55	40.00	23.45	102	319	Horizontal
2	52.0675	30.29	-27.93	13.30	15.66	40.00	24.34	285	0	Horizontal
3	94.7475	34.62	-27.52	10.12	17.21	43.50	26.29	263	359	Horizontal
4	99.84	32.29	-27.36	10.78	15.70	43.50	27.80	265	300	Horizontal
5	190.535	35.65	-27.24	9.56	17.97	43.50	25.53	241	282	Horizontal
6	323.91	32.04	-26.15	13.78	19.68	46.00	26.32	142	271	Horizontal

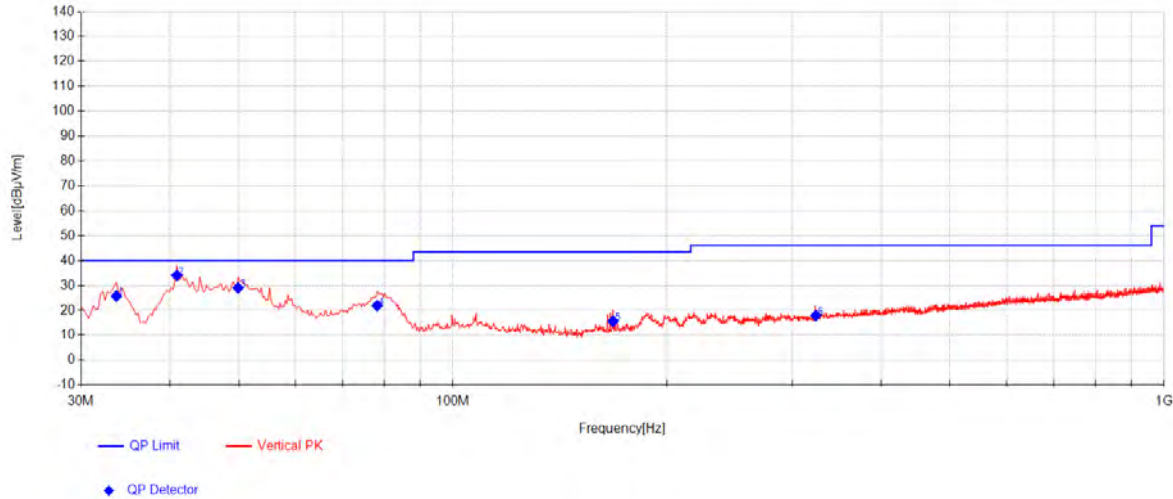


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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.6375	43.59	-28.40	10.59	25.78	40.00	14.22	185	312	Vertical
2	40.9125	49.86	-28.07	12.28	34.07	40.00	5.93	263	57	Vertical
3	49.885	43.25	-28.01	13.78	29.02	40.00	10.98	265	7	Vertical
4	78.2575	42.54	-27.91	7.30	21.93	40.00	18.07	241	110	Vertical
5	167.9825	34.26	-26.52	7.88	15.62	43.50	27.88	142	47	Vertical
6	323.91	30.28	-26.15	13.78	17.92	46.00	28.08	236	139	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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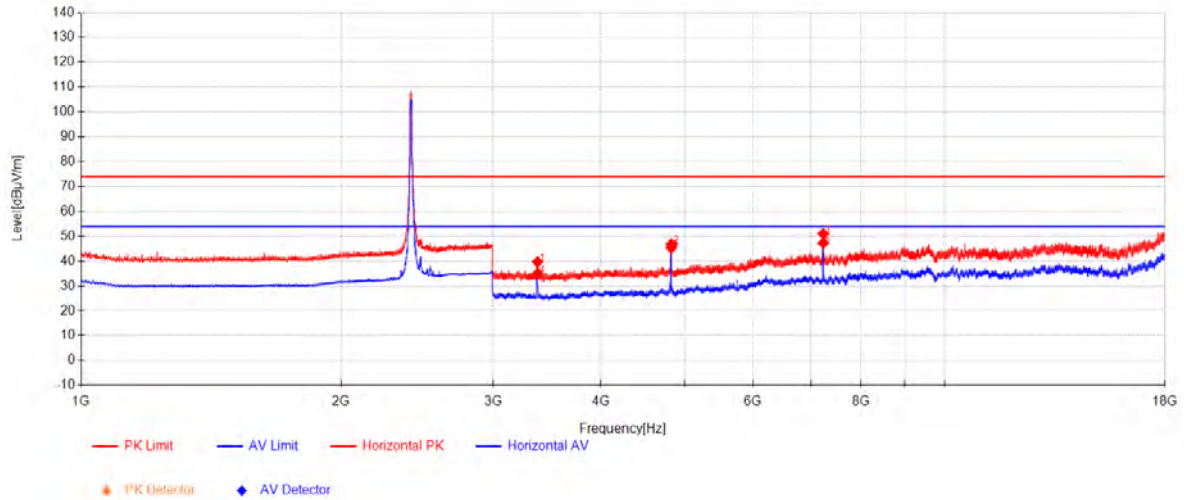
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### Transmitter emission Above 1GHz

For Sample #1:

802.11b\_Channel 01



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	3378	56.14	29.45	-45.92	39.67	74.00	34.33	196	296	Horizontal
2	4824	59.14	32.18	-44.55	46.77	74.00	27.23	284	265	Horizontal
3	7235	56.71	36.34	-42.09	50.97	74.00	23.03	142	241	Horizontal
4	3378	51.55	29.45	-45.92	35.08	54.00	18.92	263	232	Horizontal
5	4824.5	57.66	32.18	-44.55	45.29	54.00	8.71	201	211	Horizontal
6	7235.5	52.97	36.34	-42.08	47.23	54.00	6.77	145	185	Horizontal



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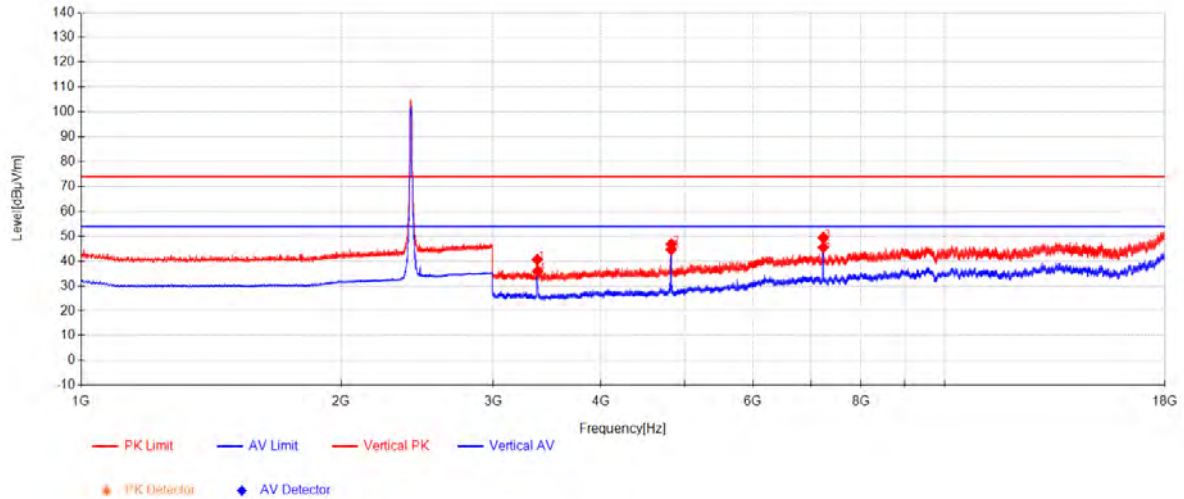
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802.11b\_Channel 01



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	3375	57.04	29.45	-45.92	40.57	74.00	33.43	284	331	Vertical
2	4824	59.18	32.18	-44.55	46.81	74.00	27.19	142	331	Vertical
3	7235	55.18	36.34	-42.09	49.44	74.00	24.56	263	331	Vertical
4	3379	52.43	29.45	-45.92	35.96	54.00	18.04	265	331	Vertical
5	4824.5	56.98	32.18	-44.55	44.61	54.00	9.39	288	331	Vertical
6	7235.5	51.22	36.34	-42.08	45.48	54.00	8.52	196	331	Vertical

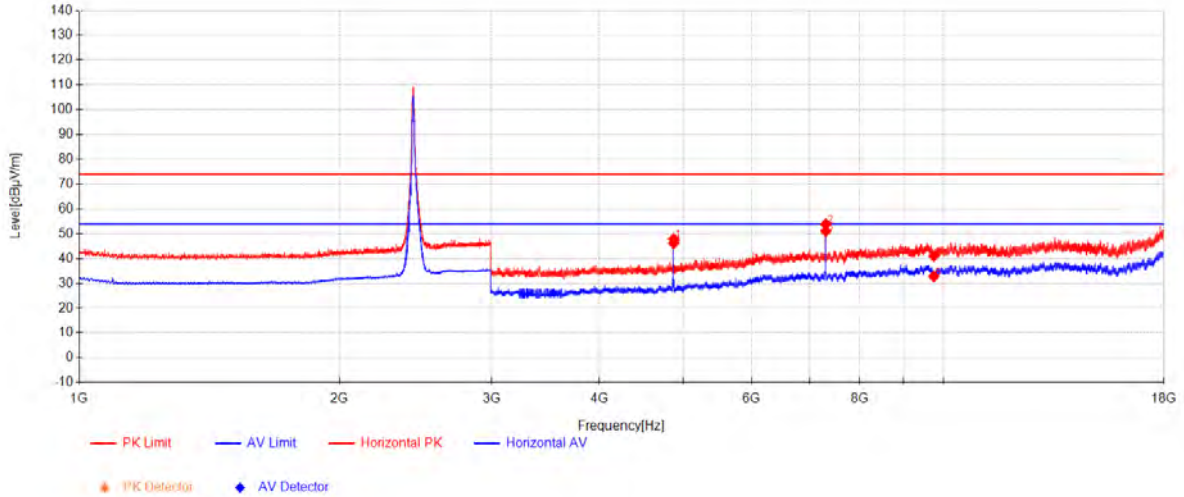


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802.11b\_Channel 06



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	4874	60.37	32.30	-44.77	47.90	74.00	26.10	152	123	Horizontal
2	7310	59.26	36.39	-41.78	53.86	74.00	20.14	236	187	Horizontal
3	9748	39.98	38.53	-37.51	40.99	74.00	33.01	274	251	Horizontal
4	4874.5	58.60	32.30	-44.77	46.13	54.00	7.87	305	222	Horizontal
5	7310.5	56.39	36.39	-41.78	50.99	54.00	3.01	266	143	Horizontal
6	9748	31.78	38.53	-37.51	32.79	54.00	21.21	158	184	Horizontal

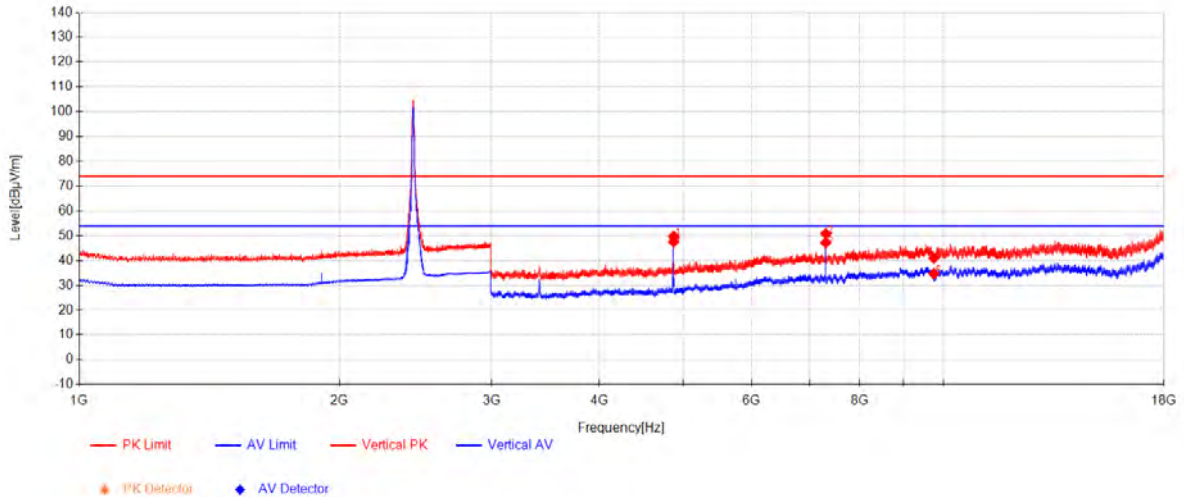


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802.11b\_Channel 06



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	4874	62.18	32.30	-44.77	49.71	74.00	24.29	267	326	Vertical
2	7312	56.23	36.39	-41.79	50.83	74.00	23.17	216	290	Vertical
3	9748	39.99	38.53	-37.51	41.00	74.00	33.00	269	148	Vertical
4	4874.5	60.08	32.30	-44.77	47.61	54.00	6.39	164	8	Vertical
5	7310	52.58	36.39	-41.78	47.18	54.00	6.82	128	112	Vertical
6	9748	33.67	38.53	-37.51	34.68	54.00	19.32	187	215	Vertical

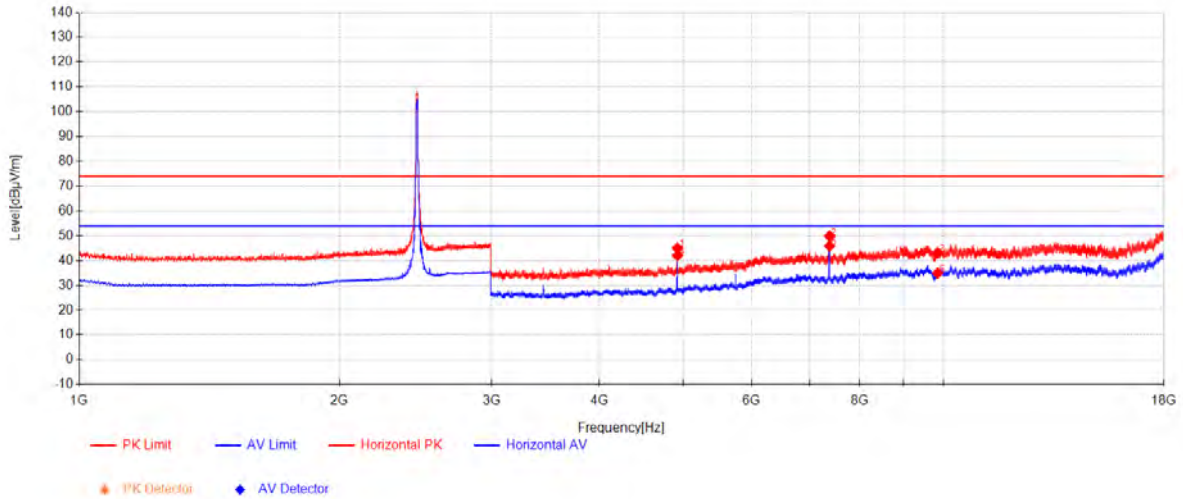


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802.11b\_Channel 11



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	4924	57.46	32.42	-44.89	44.98	74.00	29.02	158	145	Horizontal
2	7385	55.35	36.43	-41.95	49.83	74.00	24.17	196	184	Horizontal
3	9848	41.94	38.52	-37.38	43.08	74.00	30.92	218	325	Horizontal
4	4924.5	54.55	32.42	-44.89	42.07	54.00	11.93	100	184	Horizontal
5	7385.5	51.39	36.43	-41.95	45.87	54.00	8.13	258	184	Horizontal
6	9848	33.78	38.52	-37.38	34.92	54.00	19.08	235	39	Horizontal

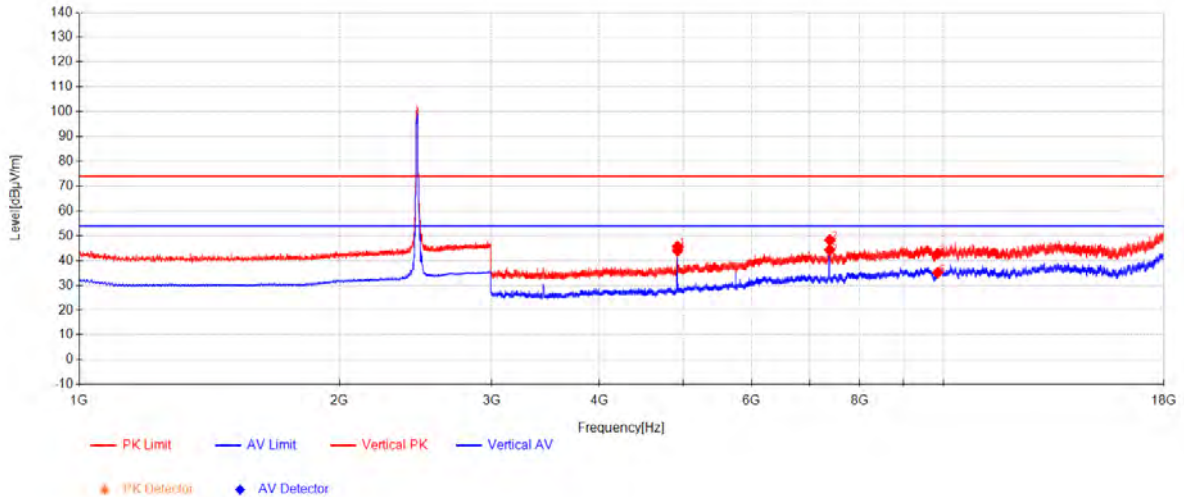


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802.11b\_Channel 11



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	4924	58.23	32.42	-44.89	45.75	74.00	28.25	304	1	Vertical
2	7389	53.81	36.43	-41.96	48.29	74.00	25.71	221	285	Vertical
3	9848	41.66	38.52	-37.38	42.80	74.00	31.20	186	0	Vertical
4	4924.5	56.46	32.42	-44.89	43.98	54.00	10.02	217	357	Vertical
5	7388	49.75	36.43	-41.95	44.23	54.00	9.77	255	321	Vertical
6	9848	33.98	38.52	-37.38	35.12	54.00	18.88	327	8	Vertical

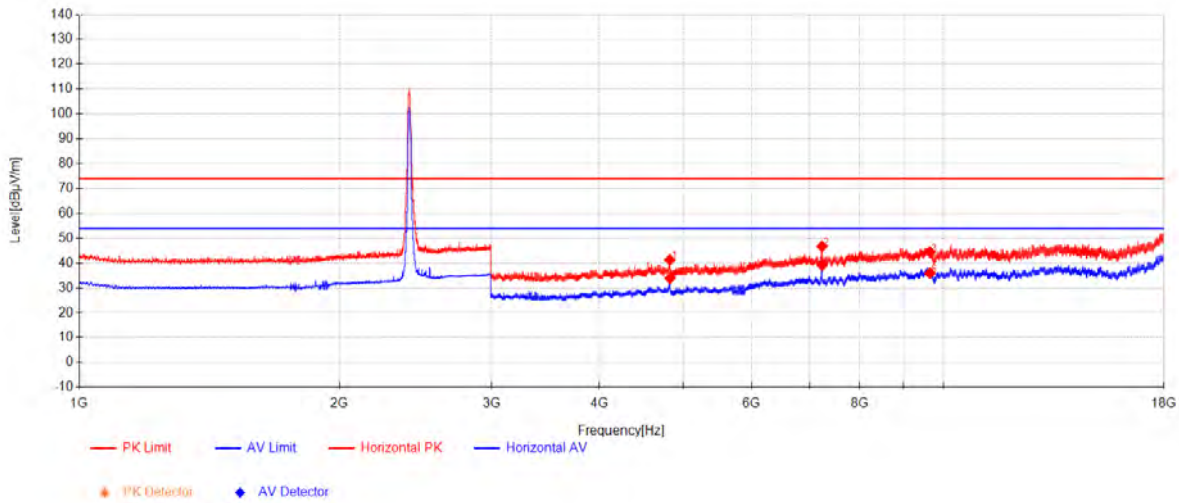


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802.11g\_Channel 01



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	4824	53.63	32.18	-44.55	41.26	74.00	32.74	296	293	Horizontal
2	7236	52.47	36.34	-42.08	46.73	74.00	27.27	265	28	Horizontal
3	9648	43.77	38.54	-37.82	44.48	74.00	29.52	241	141	Horizontal
4	4826.5	46.25	32.18	-44.56	33.88	54.00	20.12	142	28	Horizontal
5	7238	44.85	36.34	-42.07	39.12	54.00	14.88	263	347	Horizontal
6	9648	35.19	38.54	-37.82	35.90	54.00	18.10	221	321	Horizontal

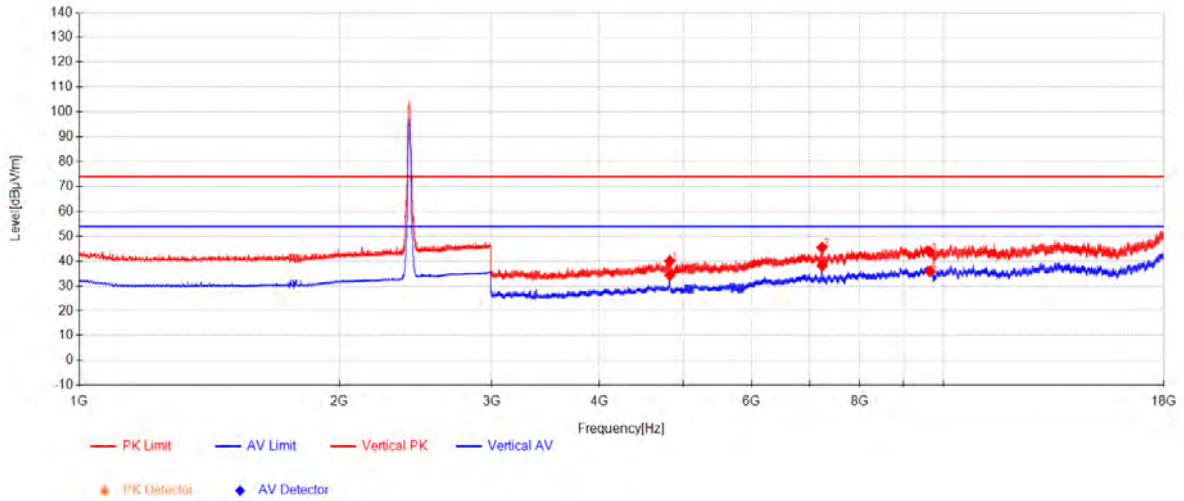


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802.11g\_Channel 01



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	4824	52.34	32.18	-44.55	39.97	74.00	34.03	196	140	Vertical
2	7236	51.23	36.34	-42.08	45.49	74.00	28.51	265	273	Vertical
3	9648	42.93	38.54	-37.82	43.64	74.00	30.36	284	162	Vertical
4	4825	46.75	32.18	-44.55	34.38	54.00	19.62	142	167	Vertical
5	7238.5	43.86	36.34	-42.07	38.14	54.00	15.86	263	136	Vertical
6	9648	35.13	38.54	-37.82	35.84	54.00	18.16	224	273	Vertical

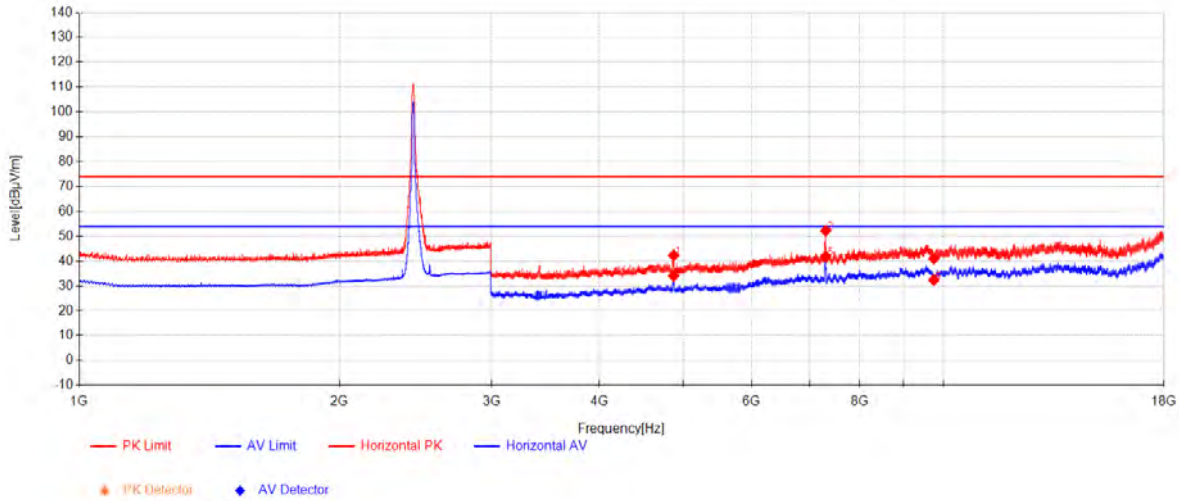


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802.11g\_Channel 06



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	4874	54.77	32.30	-44.77	42.30	74.00	31.70	296	14	Horizontal
2	7307	57.60	36.38	-41.78	52.21	74.00	21.79	265	14	Horizontal
3	9748	39.94	38.53	-37.51	40.95	74.00	33.05	284	356	Horizontal
4	4873.5	46.43	32.30	-44.76	33.96	54.00	20.04	142	38	Horizontal
5	7310.5	47.31	36.39	-41.78	41.91	54.00	12.09	263	356	Horizontal
6	9748	31.37	38.53	-37.51	32.38	54.00	21.62	221	356	Horizontal



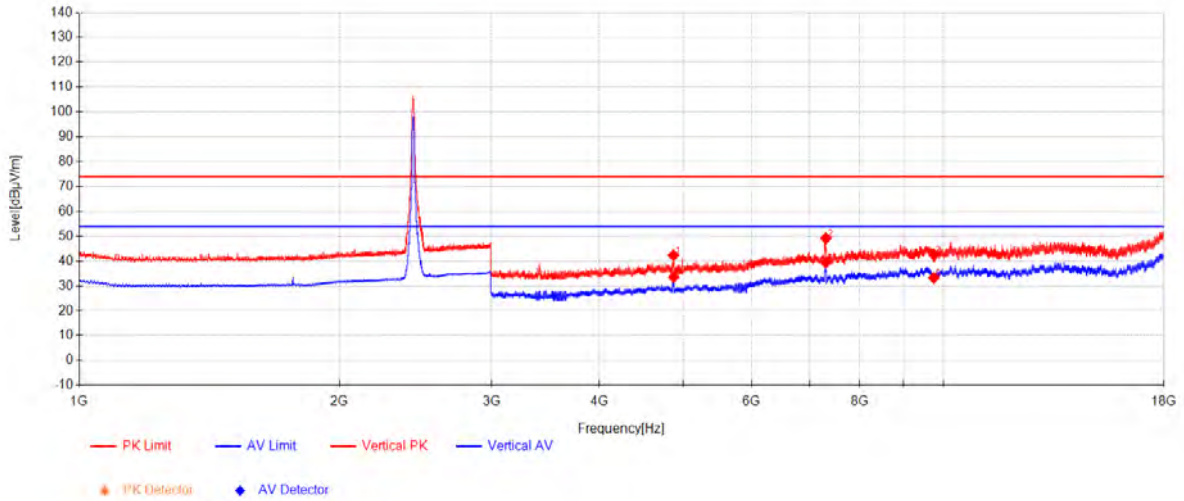
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4871	54.81	32.29	-44.75	42.35	74.00	31.65	263	145	Vertical
2	7312	54.57	36.39	-41.79	49.17	74.00	24.83	265	111	Vertical
3	9748	41.63	38.53	-37.51	42.64	74.00	31.36	241	193	Vertical
4	4874.5	45.99	32.30	-44.77	33.52	54.00	20.48	142	226	Vertical
5	7311.5	44.79	36.39	-41.79	39.39	54.00	14.61	221	140	Vertical
6	9748	32.27	38.53	-37.51	33.28	54.00	20.72	142	119	Vertical

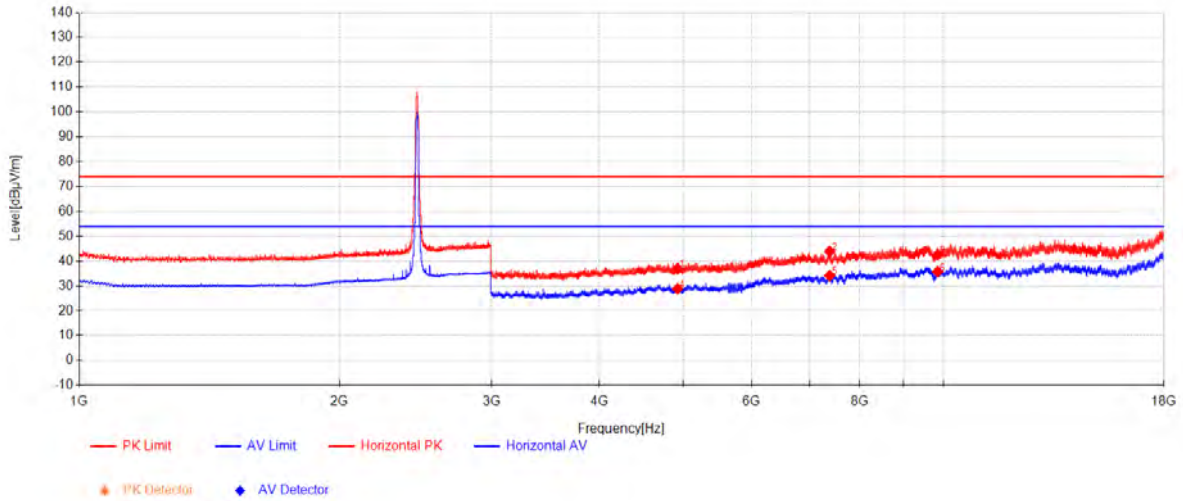


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802.11g\_Channel 11



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	4924	49.41	32.42	-44.89	36.93	74.00	37.07	296	60	Horizontal
2	7386	49.39	36.43	-41.95	43.87	74.00	30.13	265	14	Horizontal
3	9848	41.41	38.52	-37.38	42.55	74.00	31.45	284	165	Horizontal
4	4924	41.31	32.42	-44.89	28.83	54.00	25.17	142	0	Horizontal
5	7386	39.68	36.43	-41.95	34.16	54.00	19.84	263	305	Horizontal
6	9848	34.60	38.52	-37.38	35.74	54.00	18.26	221	33	Horizontal

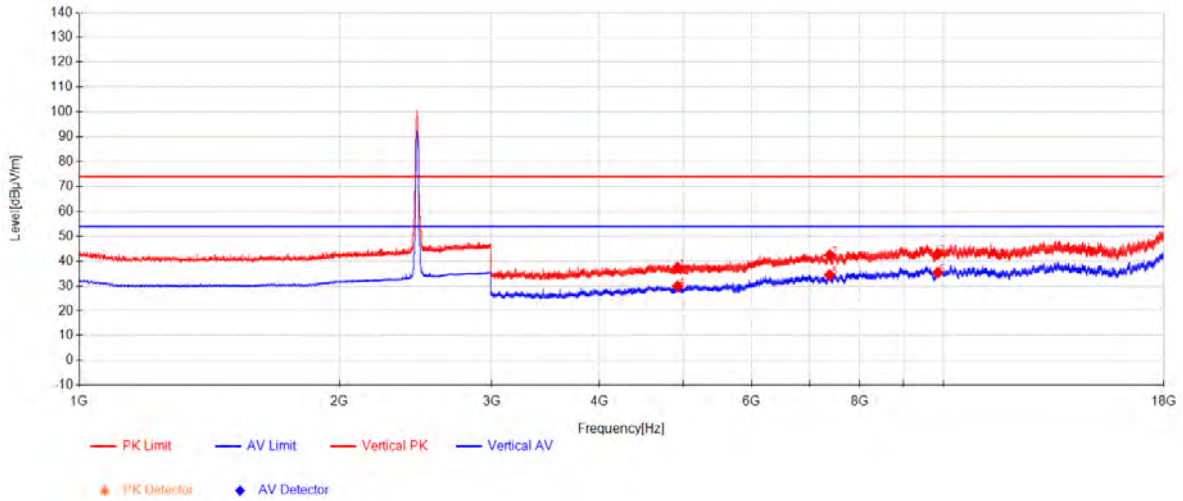


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	49.86	32.42	-44.89	37.38	74.00	36.62	362	250	Vertical
2	7386	47.90	36.43	-41.95	42.38	74.00	31.62	265	333	Vertical
3	9848	41.73	38.52	-37.38	42.87	74.00	31.13	241	248	Vertical
4	4924	42.36	32.42	-44.89	29.88	54.00	24.12	142	192	Vertical
5	7386	39.93	36.43	-41.95	34.41	54.00	19.59	263	117	Vertical
6	9848	34.19	38.52	-37.38	35.33	54.00	18.67	221	57	Vertical

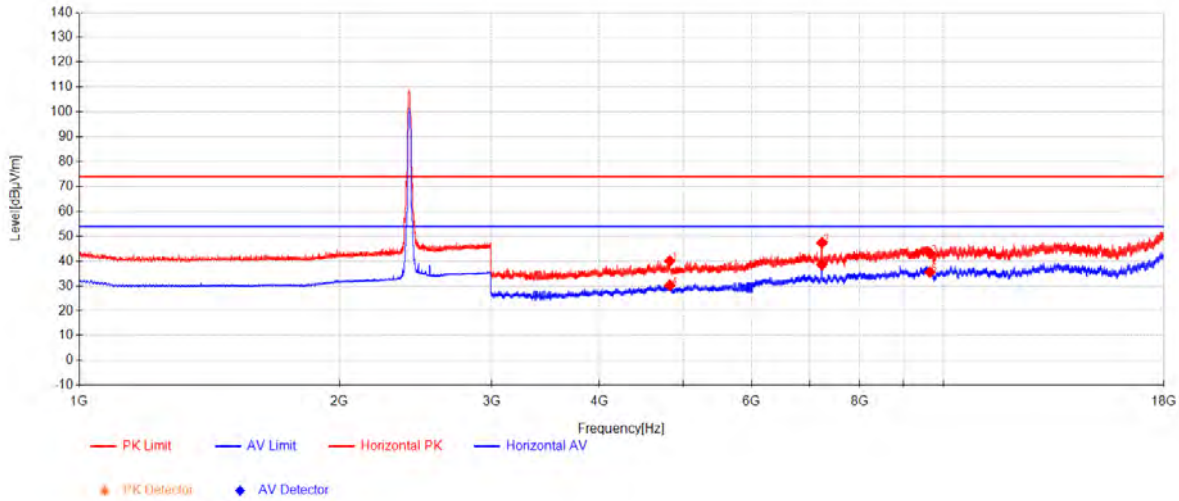


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802.11n20\_Channel 01



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	4824	52.40	32.18	-44.55	40.03	74.00	33.97	296	1	Horizontal
2	7235.5	53.08	36.34	-42.08	47.34	74.00	26.66	265	10	Horizontal
3	9648	42.39	38.54	-37.82	43.10	74.00	30.90	284	96	Horizontal
4	4824	42.58	32.18	-44.55	30.21	54.00	23.79	142	244	Horizontal
5	7235.5	44.27	36.34	-42.08	38.53	54.00	15.47	263	10	Horizontal
6	9648	34.80	38.54	-37.82	35.51	54.00	18.49	224	333	Horizontal

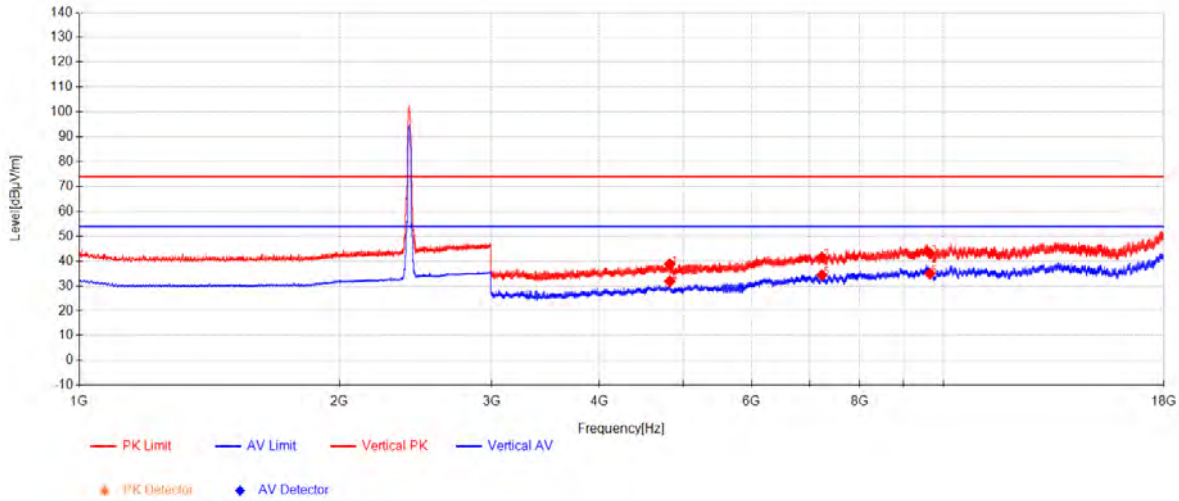


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802.11n20\_Channel 01



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	4824	51.15	32.18	-44.55	38.78	74.00	35.22	326	153	Vertical
2	7236	47.20	36.34	-42.08	41.46	74.00	32.54	265	357	Vertical
3	9648	42.35	38.54	-37.82	43.06	74.00	30.94	284	253	Vertical
4	4824	44.23	32.18	-44.55	31.86	54.00	22.14	142	128	Vertical
5	7236	40.14	36.34	-42.08	34.40	54.00	19.60	263	146	Vertical
6	9648	34.19	38.54	-37.82	34.90	54.00	19.10	224	253	Vertical



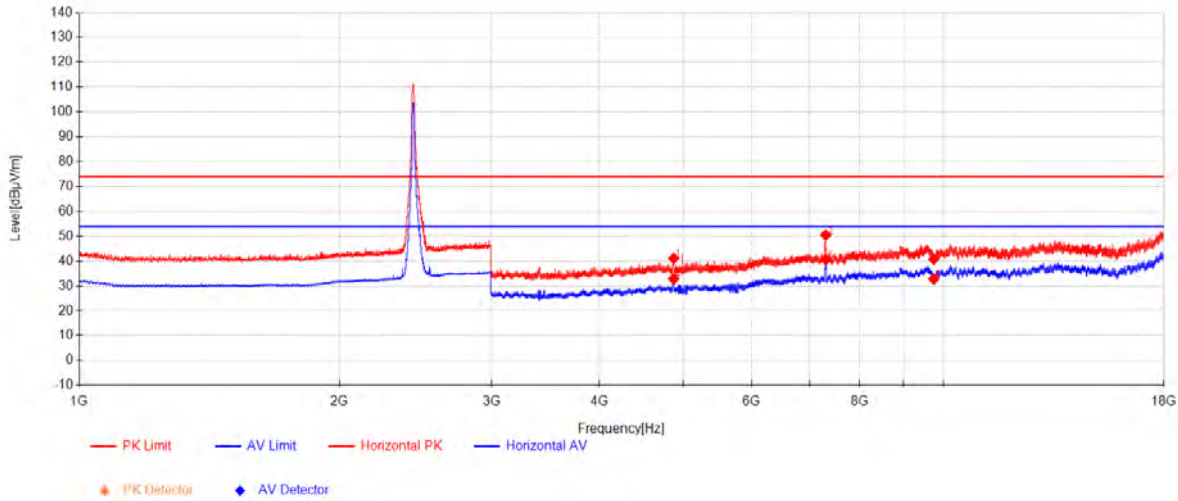
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802.11n20\_Channel 06



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	4874	53.52	32.30	-44.77	41.05	74.00	32.95	296	333	Horizontal
2	7309	55.87	36.39	-41.78	50.48	74.00	23.52	265	333	Horizontal
3	9748	39.74	38.53	-37.51	40.75	74.00	33.25	284	198	Horizontal
4	4874	45.27	32.30	-44.77	32.80	54.00	21.20	142	357	Horizontal
5	7311	45.97	36.39	-41.78	40.57	54.00	13.43	263	8	Horizontal
6	9748	31.81	38.53	-37.51	32.82	54.00	21.18	221	84	Horizontal

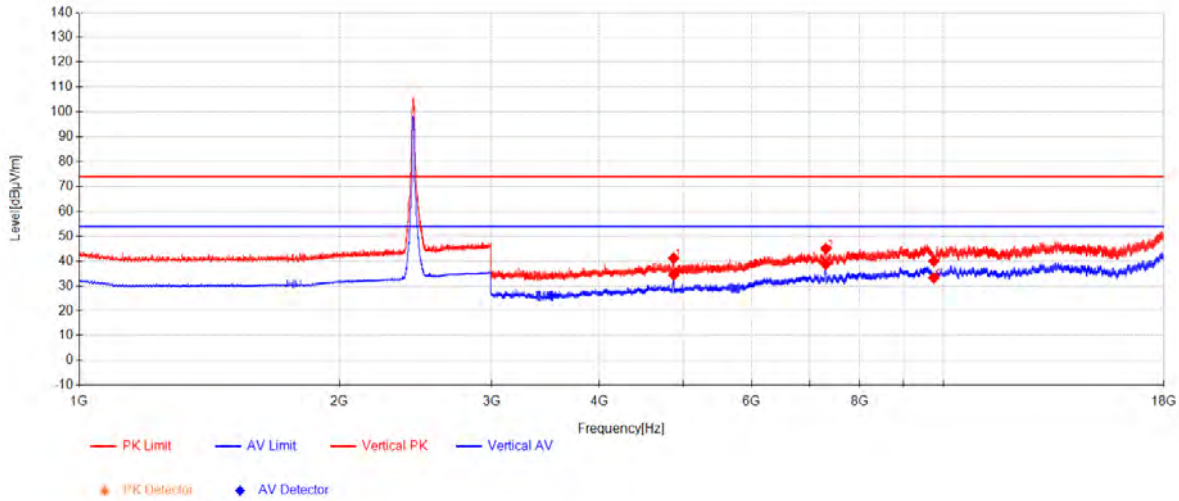


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802.11n20\_Channel 06



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	4874	53.63	32.30	-44.77	41.16	74.00	32.84	296	142	Vertical
2	7311	50.40	36.39	-41.78	45.00	74.00	29.00	265	1	Vertical
3	9748	38.97	38.53	-37.51	39.98	74.00	34.02	284	64	Vertical
4	4874.5	46.90	32.30	-44.77	34.43	54.00	19.57	142	142	Vertical
5	7309	44.12	36.39	-41.78	38.73	54.00	15.27	263	1	Vertical
6	9748	32.26	38.53	-37.51	33.27	54.00	20.73	225	59	Vertical

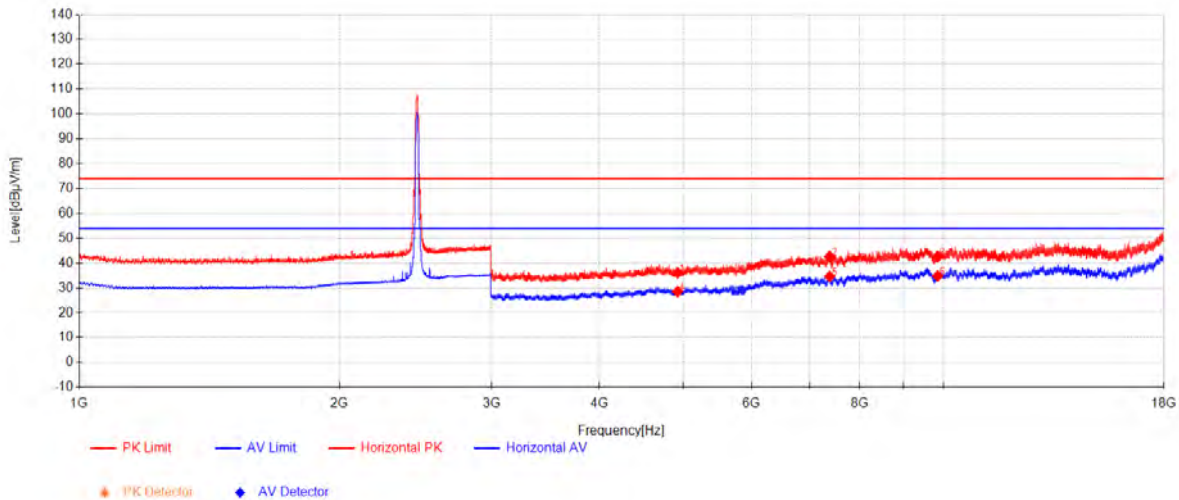


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.56	32.42	-44.89	36.08	74.00	37.92	296	252	Horizontal
2	7386	48.16	36.43	-41.95	42.64	74.00	31.36	265	306	Horizontal
3	9848	41.43	38.52	-37.38	42.57	74.00	31.43	284	36	Horizontal
4	4924	40.98	32.42	-44.89	28.50	54.00	25.50	142	279	Horizontal
5	7386	40.13	36.43	-41.95	34.61	54.00	19.39	263	331	Horizontal
6	9848	33.66	38.52	-37.38	34.80	54.00	19.20	254	252	Horizontal



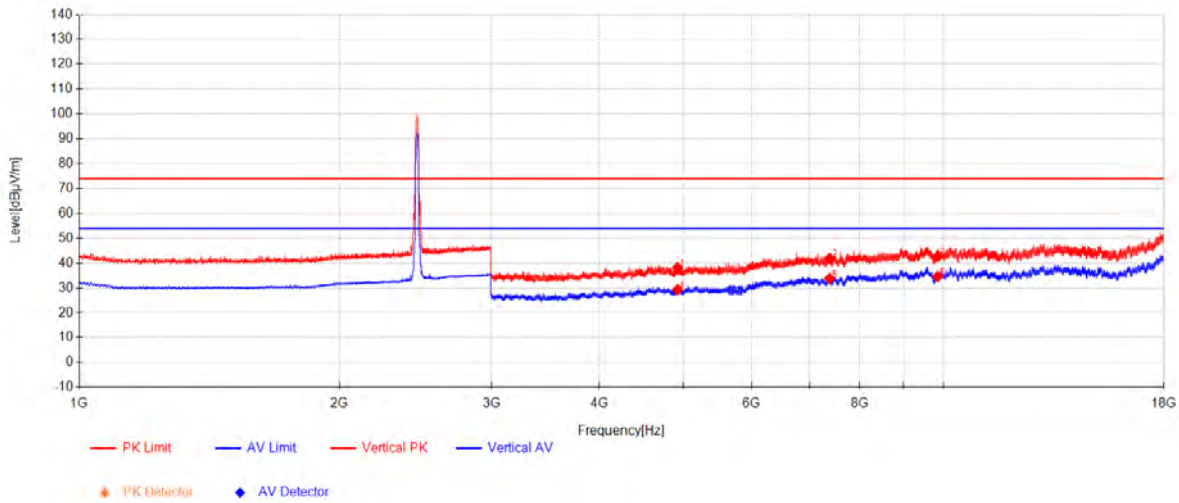
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802.11n20\_Channel 11



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	4924	50.53	32.42	-44.89	38.05	74.00	35.95	362	170	Vertical
2	7386	47.40	36.43	-41.95	41.88	74.00	32.12	285	117	Vertical
3	9848	41.53	38.52	-37.38	42.67	74.00	31.33	241	170	Vertical
4	4924	41.74	32.42	-44.89	29.26	54.00	24.74	142	117	Vertical
5	7386	39.26	36.43	-41.95	33.74	54.00	20.26	263	225	Vertical
6	9848	33.43	38.52	-37.38	34.57	54.00	19.43	225	329	Vertical

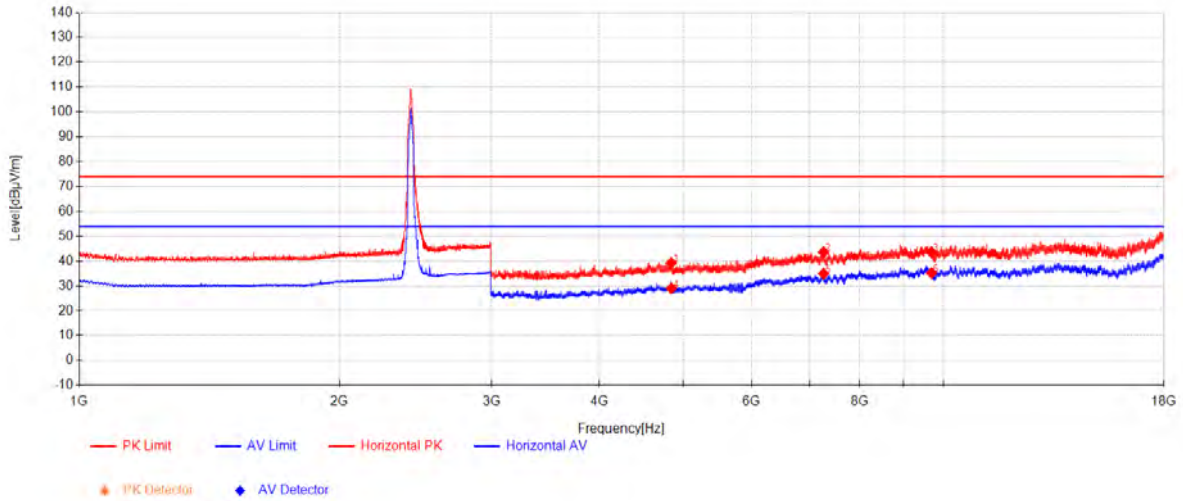


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802.11n40\_Channel 03



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	4844	51.66	32.23	-44.63	39.25	74.00	34.75	296	0	Horizontal
2	7266	49.14	36.36	-41.93	43.57	74.00	30.43	265	10	Horizontal
3	9688	42.59	38.53	-37.59	43.53	74.00	30.47	241	116	Horizontal
4	4844	41.39	32.23	-44.63	28.98	54.00	25.02	142	0	Horizontal
5	7266	40.51	36.36	-41.93	34.94	54.00	19.06	263	10	Horizontal
6	9688	34.24	38.53	-37.59	35.18	54.00	18.82	221	91	Horizontal



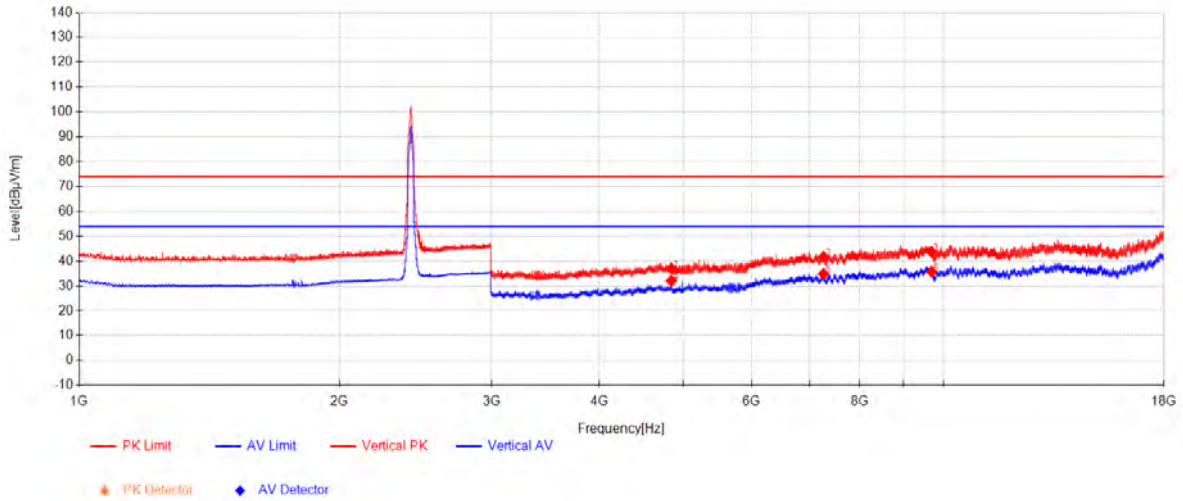
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802.11n40\_Channel 03



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	4844	49.34	32.23	-44.63	36.93	74.00	37.07	325	174	Vertical
2	7266	47.30	36.36	-41.93	41.73	74.00	32.27	241	224	Vertical
3	9688	42.76	38.53	-37.59	43.70	74.00	30.30	196	199	Vertical
4	4844	44.47	32.23	-44.63	32.06	54.00	21.94	265	199	Vertical
5	7266	40.40	36.36	-41.93	34.83	54.00	19.17	241	280	Vertical
6	9688	34.78	38.53	-37.59	35.72	54.00	18.28	142	357	Vertical

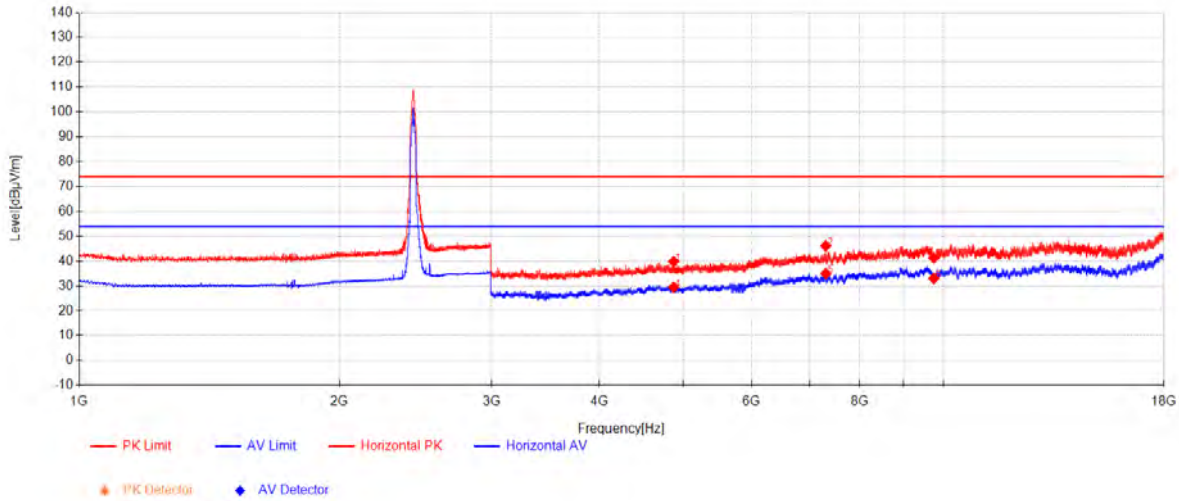


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802.11n40\_Channel 06



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	4874	52.26	32.30	-44.77	39.79	74.00	34.21	142	249	Horizontal
2	7308.5	51.47	36.39	-41.78	46.08	74.00	27.92	296	11	Horizontal
3	9748	40.22	38.53	-37.51	41.23	74.00	32.77	265	305	Horizontal
4	4874	41.89	32.30	-44.77	29.42	54.00	24.58	284	357	Horizontal
5	7311	40.34	36.39	-41.78	34.94	54.00	19.06	142	357	Horizontal
6	9748	32.01	38.53	-37.51	33.02	54.00	20.98	263	332	Horizontal

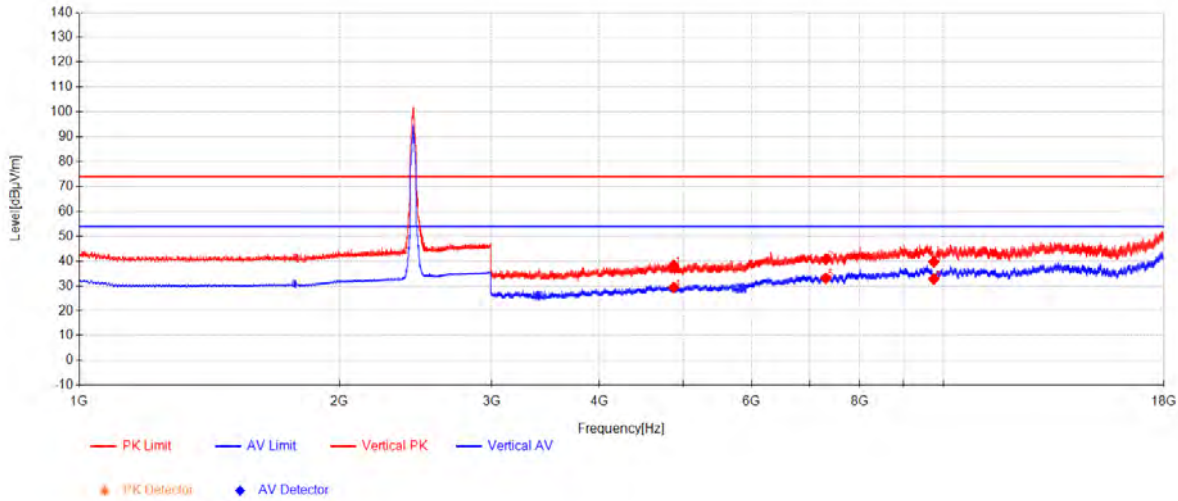


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802.11n40\_Channel 06



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	4874	50.73	32.30	-44.77	38.26	74.00	35.74	362	222	Vertical
2	7311	46.05	36.39	-41.78	40.65	74.00	33.35	265	89	Vertical
3	9748	38.64	38.53	-37.51	39.65	74.00	34.35	241	249	Vertical
4	4874	41.83	32.30	-44.77	29.36	54.00	24.64	142	196	Vertical
5	7311	38.53	36.39	-41.78	33.13	54.00	20.87	256	249	Vertical
6	9748	31.76	38.53	-37.51	32.77	54.00	21.23	263	61	Vertical

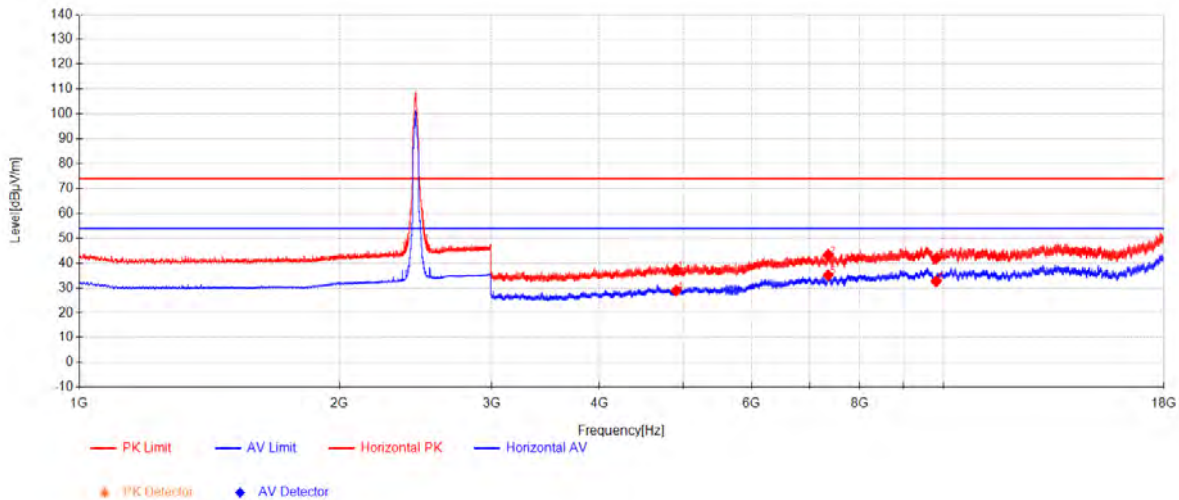


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802.11n40\_Channel 09



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	4904	49.92	32.37	-44.88	37.41	74.00	36.59	296	30	Horizontal
2	7356	48.76	36.41	-41.88	43.29	74.00	30.71	265	333	Horizontal
3	9808	40.73	38.52	-37.48	41.77	74.00	32.23	284	57	Horizontal
4	4904	41.38	32.37	-44.88	28.87	54.00	25.13	142	275	Horizontal
5	7356	40.60	36.41	-41.88	35.13	54.00	18.87	221	357	Horizontal
6	9808	31.57	38.52	-37.48	32.61	54.00	21.39	142	1	Horizontal

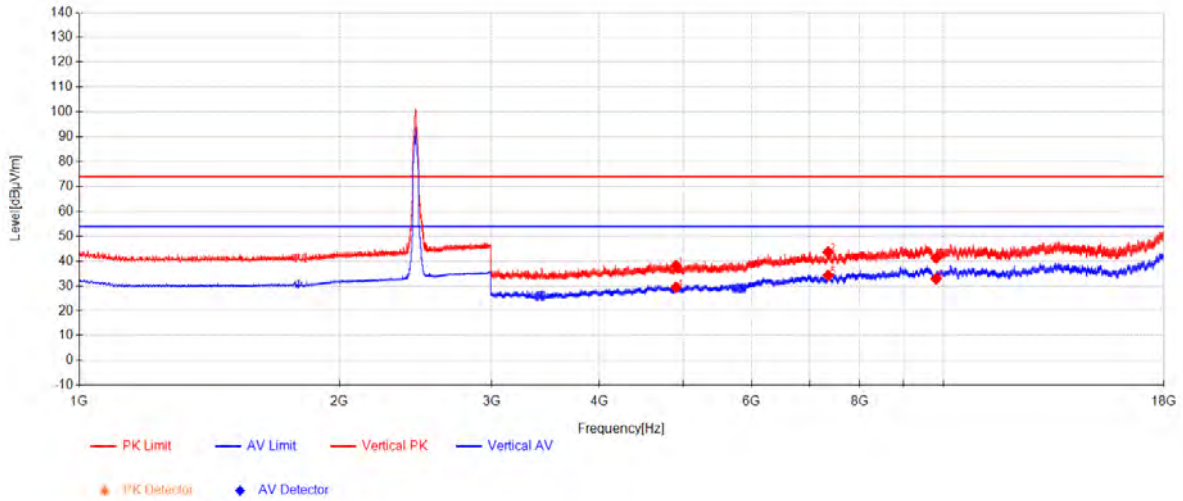


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802.11n40\_Channel 09



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	4904	50.62	32.37	-44.88	38.11	74.00	35.89	296	194	Vertical
2	7356	49.03	36.41	-41.88	43.56	74.00	30.44	265	303	Vertical
3	9808	40.13	38.52	-37.48	41.17	74.00	32.83	241	0	Vertical
4	4904	41.93	32.37	-44.88	29.42	54.00	24.58	142	170	Vertical
5	7356	39.76	36.41	-41.88	34.29	54.00	19.71	263	92	Vertical
6	9808	31.83	38.52	-37.48	32.87	54.00	21.13	236	61	Vertical



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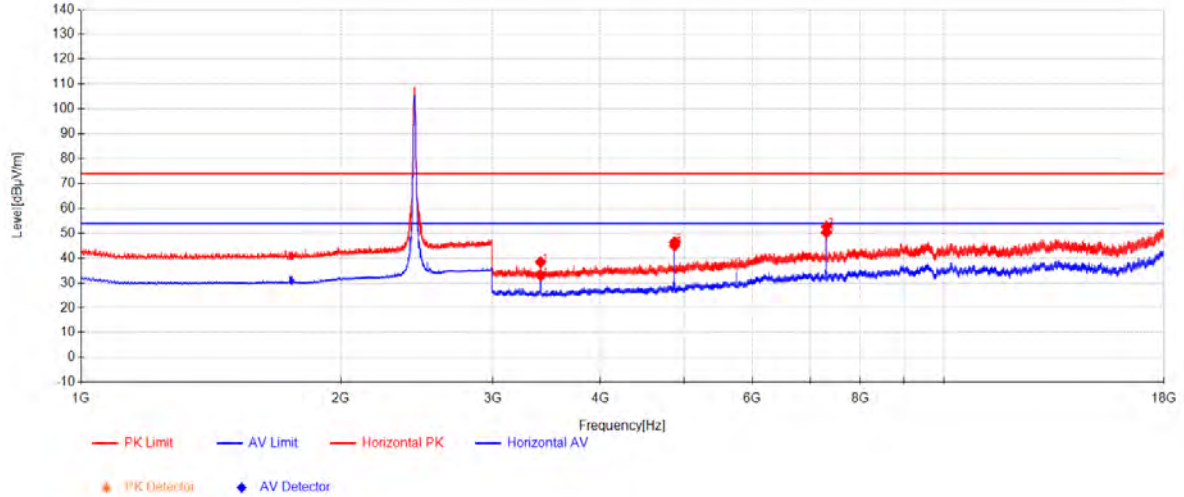
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**For Sample #2(Worst):**

**802.11b\_Channel 06**



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	3409	54.84	29.44	-45.91	38.37	74.00	35.63	125	144	Horizontal
2	4874	58.90	32.30	-44.77	46.43	74.00	27.57	236	201	Horizontal
3	7312	58.10	36.39	-41.79	52.70	74.00	21.30	196	235	Horizontal
4	3411.5	49.42	29.44	-45.90	32.95	54.00	21.05	225	110	Horizontal
5	4874.5	57.46	32.30	-44.77	44.99	54.00	9.01	147	52	Horizontal
6	7310.5	55.74	36.39	-41.78	50.34	54.00	3.66	263	49	Horizontal



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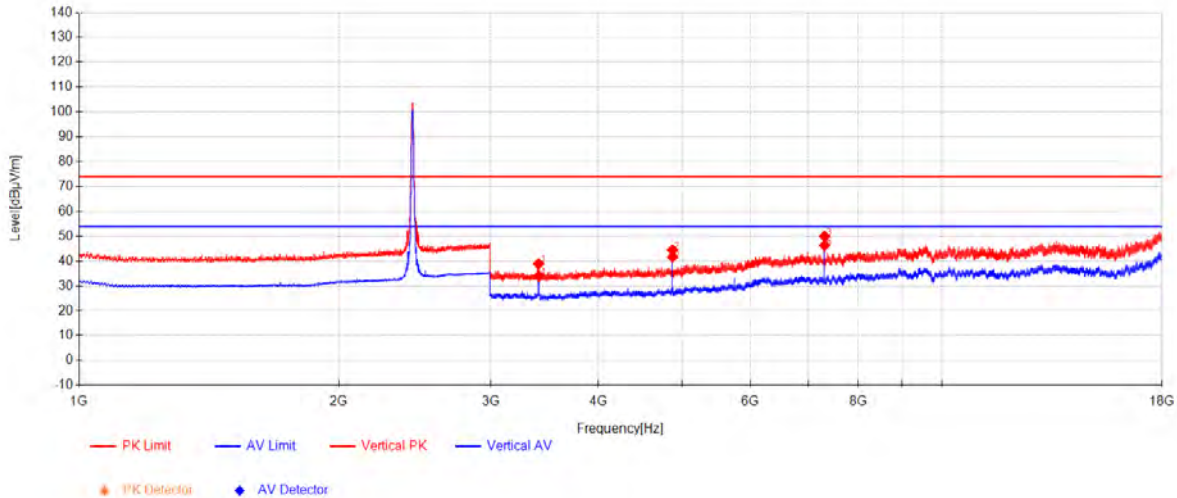
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802.11b\_Channel 06



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	3409	55.36	29.44	-45.91	38.89	74.00	35.11	159	353	Vertical
2	4874	56.91	32.30	-44.77	44.44	74.00	29.56	214	33	Vertical
3	7312	55.33	36.39	-41.79	49.93	74.00	24.07	305	179	Vertical
4	3410.5	50.41	29.44	-45.90	33.94	54.00	20.06	332	325	Vertical
5	4874.5	54.14	32.30	-44.77	41.67	54.00	12.33	241	360	Vertical
6	7312.5	51.68	36.39	-41.79	46.28	54.00	7.72	166	179	Vertical



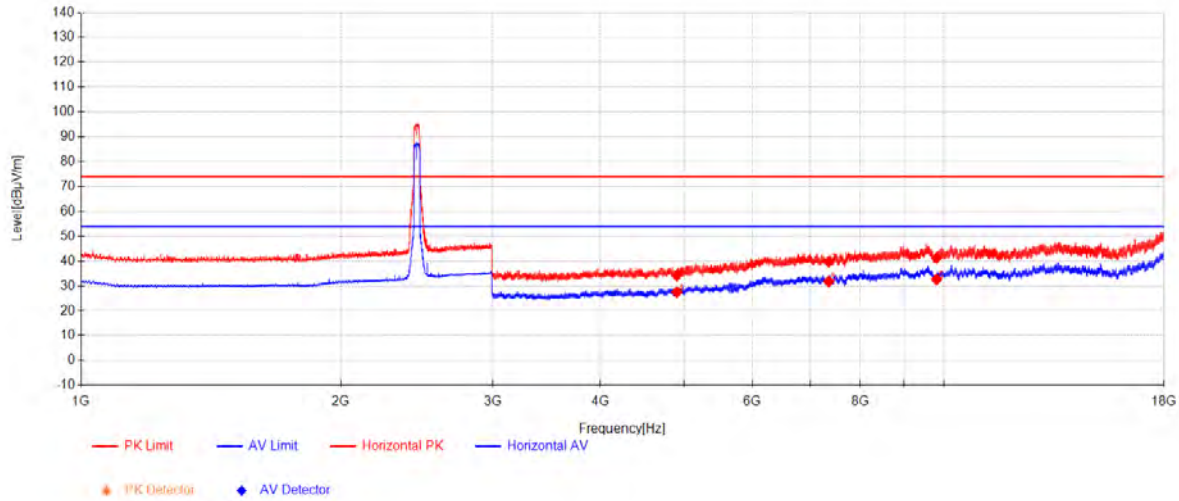
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802.11n40\_Channel 09



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	4904	46.65	32.37	-44.88	34.14	74.00	39.86	296	136	Horizontal
2	7356	45.20	36.41	-41.88	39.73	74.00	34.27	265	104	Horizontal
3	9808	40.18	38.52	-37.48	41.22	74.00	32.78	241	104	Horizontal
4	4904	40.01	32.37	-44.88	27.50	54.00	26.50	142	104	Horizontal
5	7356	37.26	36.41	-41.88	31.79	54.00	22.21	201	214	Horizontal
6	9808	31.56	38.52	-37.48	32.60	54.00	21.40	169	214	Horizontal

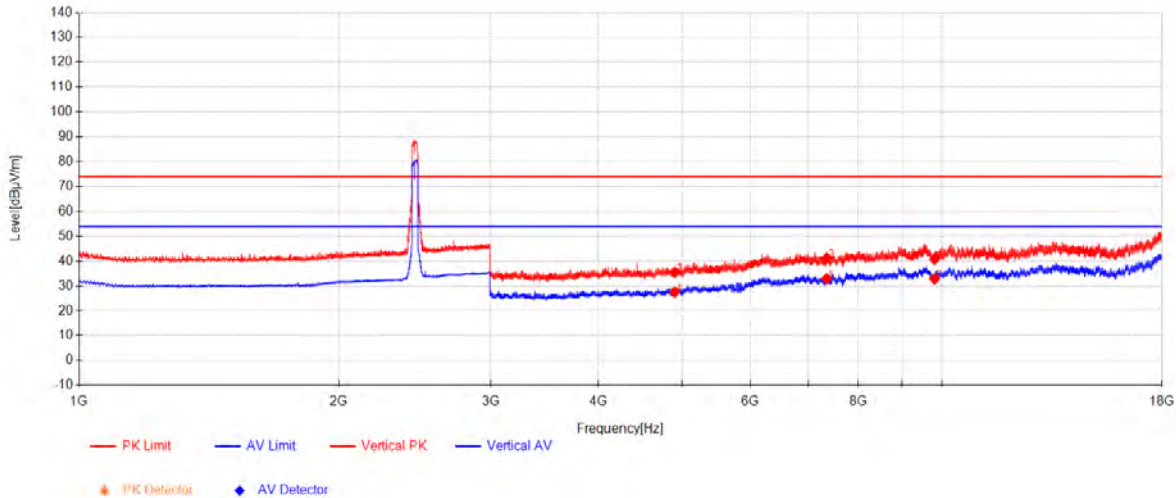


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802.11n40\_Channel 09



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	4904	47.98	32.37	-44.88	35.47	74.00	38.53	296	32	Vertical
2	7356	46.65	36.41	-41.88	41.18	74.00	32.82	235	360	Vertical
3	9808	39.73	38.52	-37.48	40.77	74.00	33.23	241	240	Vertical
4	4904	40.03	32.37	-44.88	27.52	54.00	26.48	174	3	Vertical
5	7356	38.39	36.41	-41.88	32.92	54.00	21.08	142	345	Vertical
6	9808	31.84	38.52	-37.48	32.88	54.00	21.12	255	3	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.



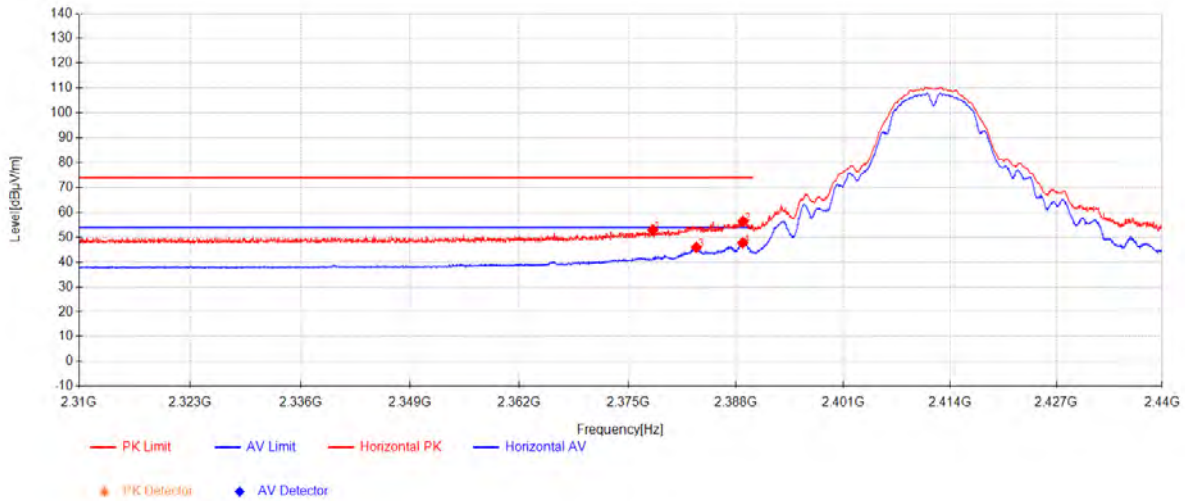
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### Restricted bands around fundamental frequency

For Sample #1:

802.11b\_Channel 01



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	2377.99	49.75	27.66	-24.45	52.96	74.00	21.04	142	153	Horizontal
2	2388.845	53.15	27.68	-24.42	56.40	74.00	17.60	142	153	Horizontal
3	2383.2225	42.70	27.67	-24.44	45.93	54.00	8.07	142	153	Horizontal
4	2388.8125	44.44	27.68	-24.42	47.69	54.00	6.31	142	153	Horizontal



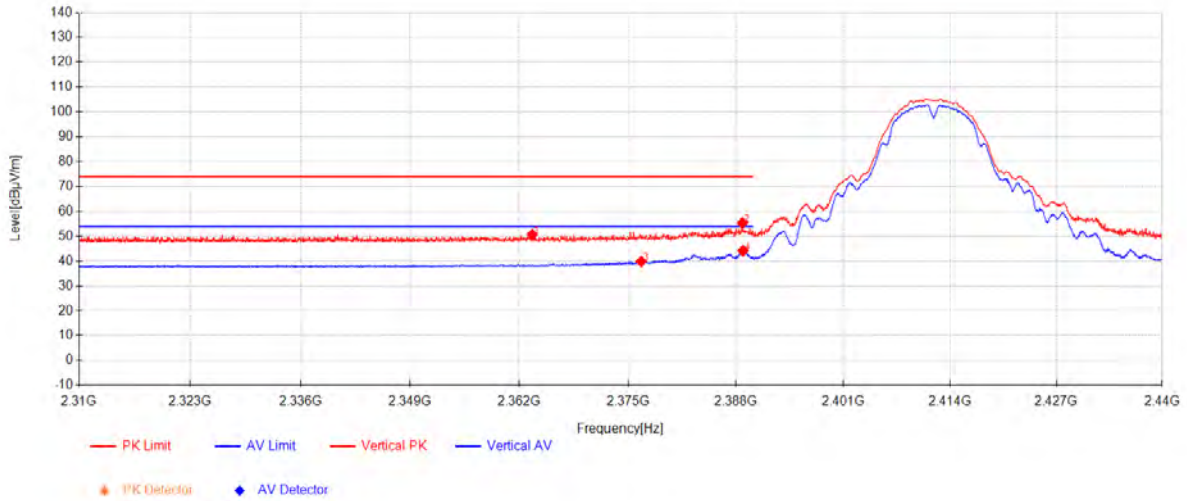
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802.11b\_Channel 01



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	2363.5275	47.50	27.63	-24.48	50.65	74.00	23.35	326	87	Vertical
2	2388.78	52.07	27.68	-24.42	55.32	74.00	18.68	326	87	Vertical
3	2376.5925	36.66	27.65	-24.45	39.86	54.00	14.14	326	87	Vertical
4	2388.845	40.89	27.68	-24.42	44.14	54.00	9.86	326	87	Vertical

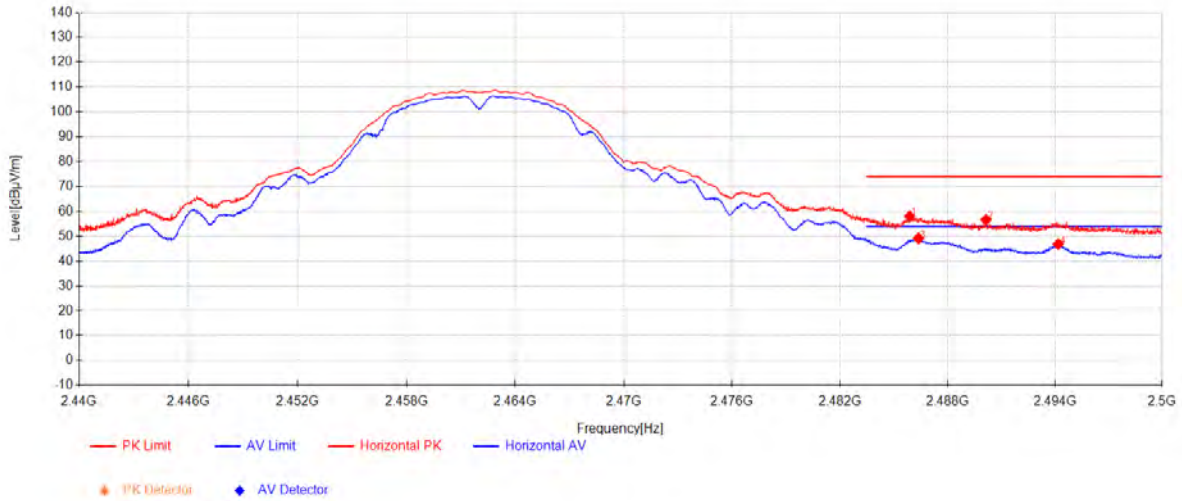


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.885	54.13	27.87	-23.94	58.06	74.00	15.94	265	187	Horizontal
2	2490.145	52.64	27.88	-23.92	56.60	74.00	17.40	265	187	Horizontal
3	2486.38	45.23	27.87	-23.94	49.16	54.00	4.84	265	187	Horizontal
4	2494.18	42.81	27.89	-23.90	46.80	54.00	7.20	265	187	Horizontal

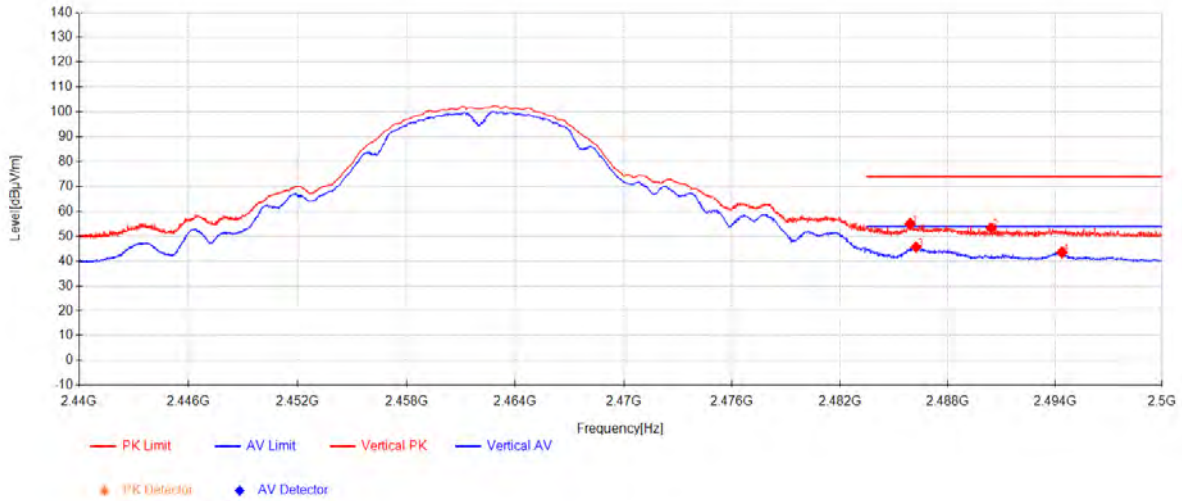


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.915	51.06	27.87	-23.94	54.99	74.00	19.01	169	49	Vertical
2	2490.43	49.34	27.88	-23.92	53.30	74.00	20.70	169	49	Vertical
3	2486.245	41.72	27.87	-23.94	45.65	54.00	8.35	169	49	Vertical
4	2494.39	39.50	27.89	-23.90	43.49	54.00	10.51	169	49	Vertical



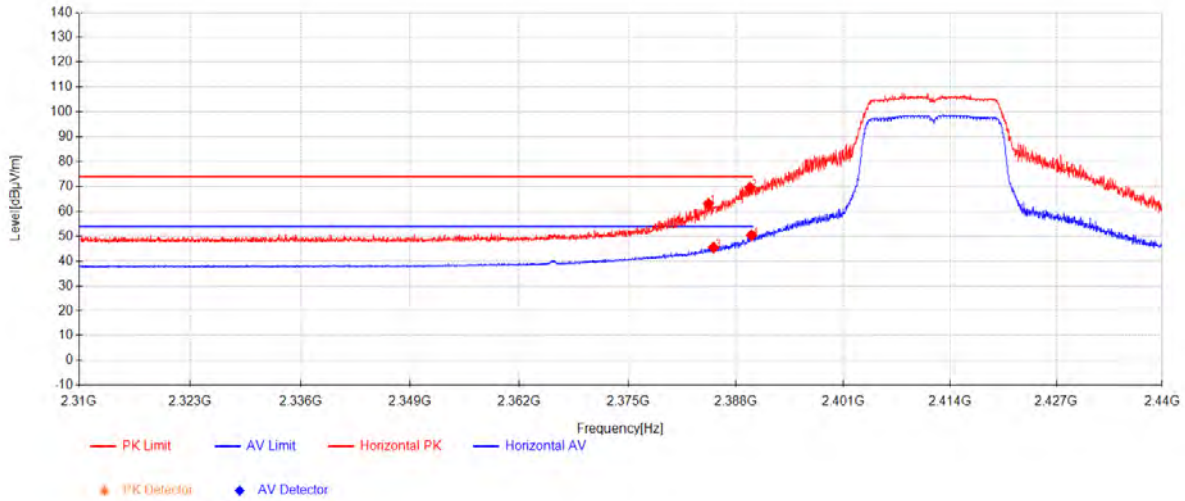
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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.685	59.84	27.67	-24.43	63.08	74.00	10.92	225	142	Horizontal
2	2389.69	66.29	27.68	-24.42	69.55	74.00	4.45	225	142	Horizontal
3	2385.3025	42.24	27.67	-24.43	45.48	54.00	8.52	225	142	Horizontal
4	2389.885	47.15	27.68	-24.42	50.41	54.00	3.59	225	142	Horizontal



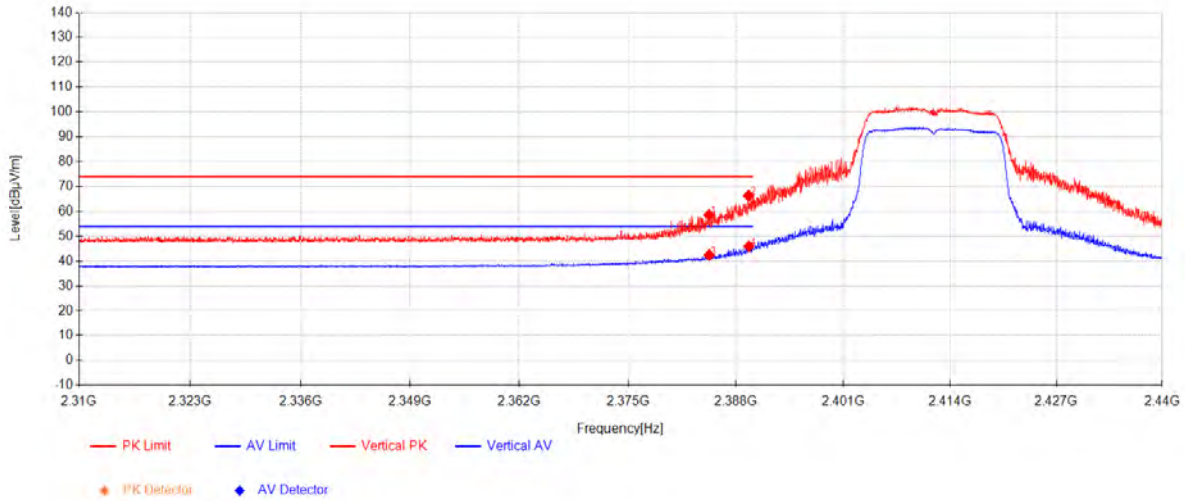
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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.75	55.34	27.67	-24.43	58.58	74.00	15.42	191	39	Vertical
2	2389.5275	63.07	27.68	-24.42	66.33	74.00	7.67	191	39	Vertical
3	2384.7825	39.18	27.67	-24.43	42.42	54.00	11.58	191	39	Vertical
4	2389.56	42.68	27.68	-24.42	45.94	54.00	8.06	191	39	Vertical



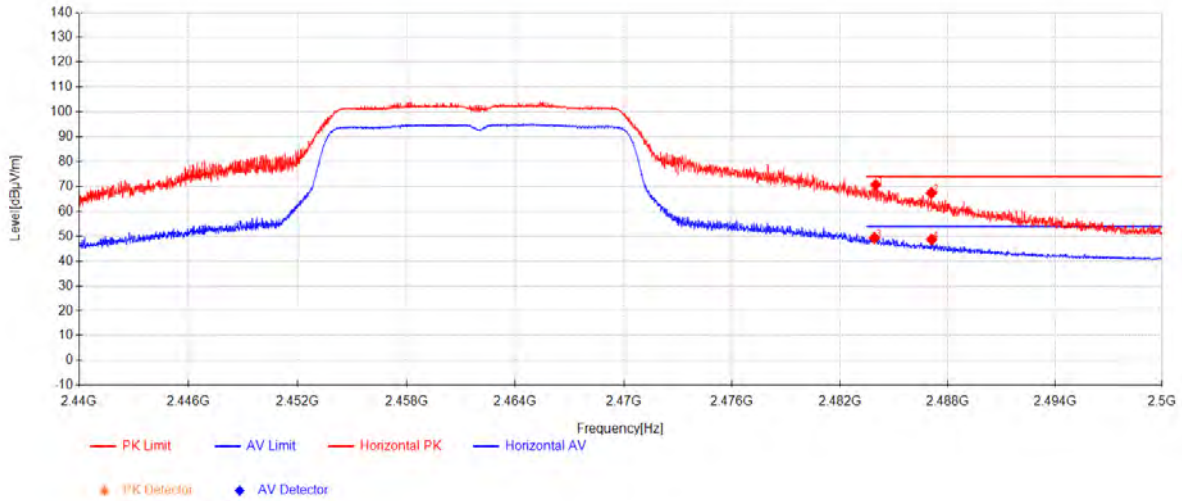
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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.995	66.74	27.87	-23.95	70.65	74.00	3.35	248	187	Horizontal
2	2487.1	63.45	27.87	-23.94	67.39	74.00	6.61	248	187	Horizontal
3	2483.92	45.39	27.87	-23.96	49.30	54.00	4.70	248	187	Horizontal
4	2487.115	44.75	27.87	-23.94	48.69	54.00	5.31	248	187	Horizontal

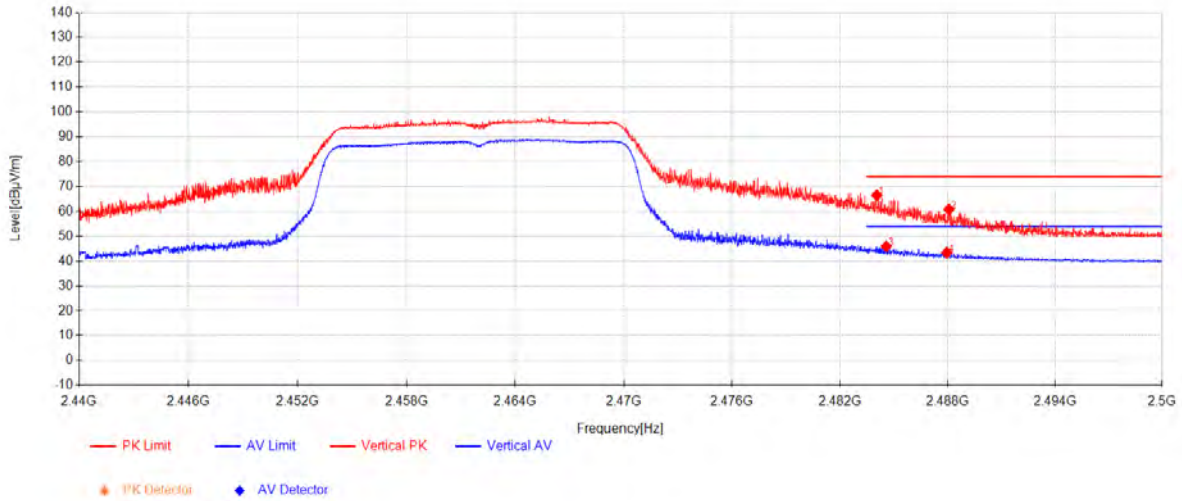


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802.11g\_Channel 11



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	62.58	27.87	-23.95	66.49	74.00	7.51	143	57	Vertical
2	2488.075	56.85	27.88	-23.93	60.79	74.00	13.21	143	57	Vertical
3	2484.58	42.00	27.87	-23.95	45.92	54.00	8.08	143	57	Vertical
4	2487.955	39.44	27.88	-23.93	43.38	54.00	10.62	143	57	Vertical

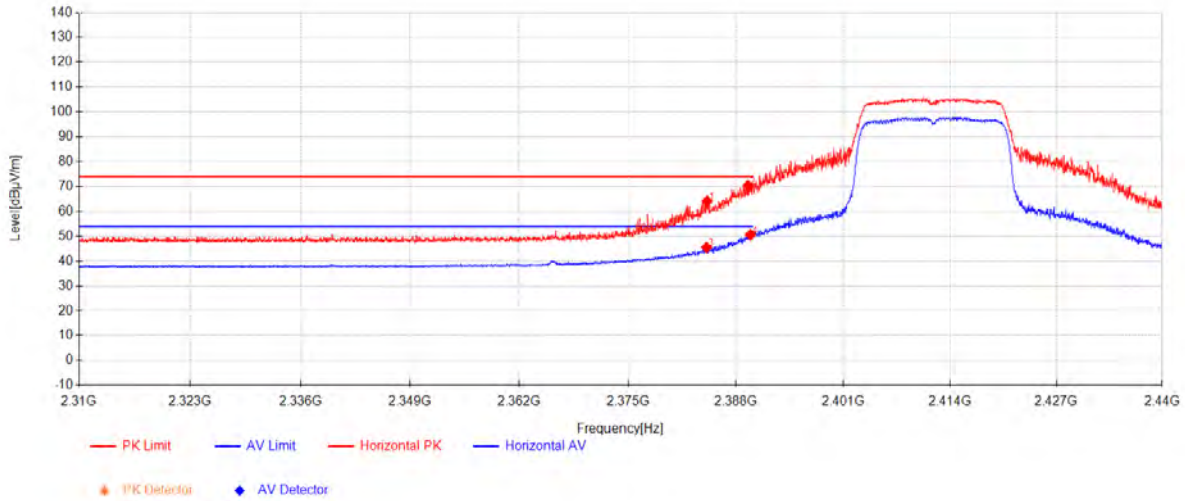


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802.11n20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.5225	60.88	27.67	-24.43	64.11	74.00	9.89	167	151	Horizontal
2	2389.4625	67.14	27.68	-24.42	70.40	74.00	3.60	167	151	Horizontal
3	2384.4575	42.27	27.67	-24.43	45.50	54.00	8.50	167	151	Horizontal
4	2389.755	47.32	27.68	-24.42	50.58	54.00	3.42	167	151	Horizontal

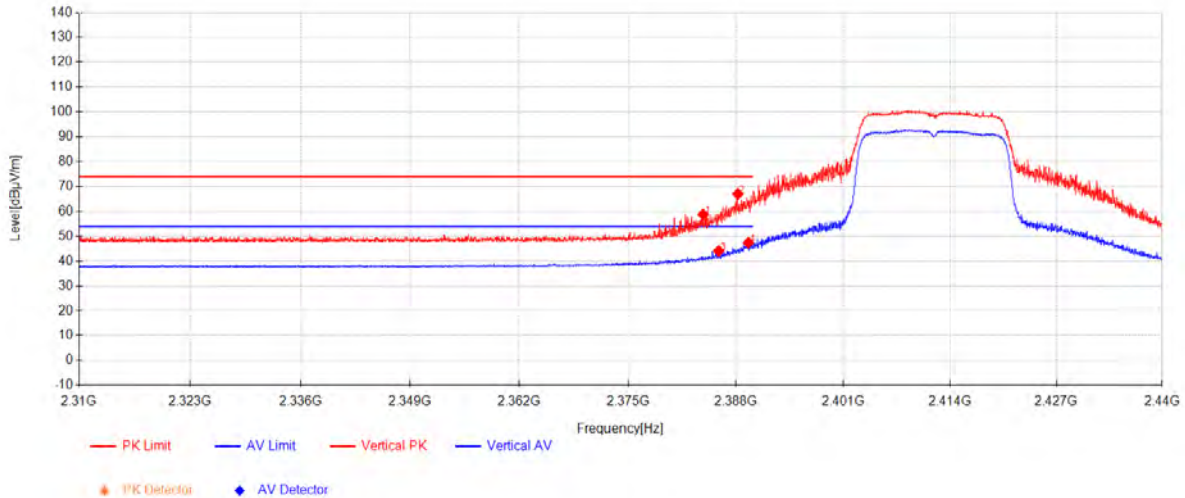


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802.11n20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.035	55.58	27.67	-24.44	58.81	74.00	15.19	365	26	Vertical
2	2388.2275	63.74	27.68	-24.43	66.99	74.00	7.01	365	26	Vertical
3	2385.92	40.84	27.67	-24.43	44.08	54.00	9.92	365	26	Vertical
4	2389.495	44.11	27.68	-24.42	47.37	54.00	6.63	365	26	Vertical



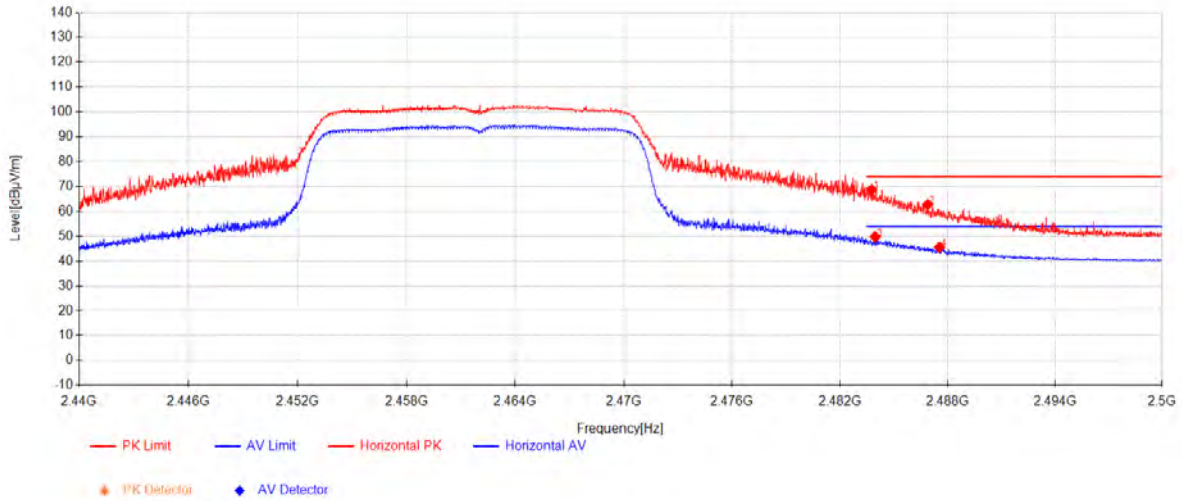
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802.11n20\_Channel 11



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	2483.77	64.79	27.87	-23.96	68.70	74.00	5.30	206	148	Horizontal
2	2486.89	58.74	27.87	-23.94	62.67	74.00	11.33	206	148	Horizontal
3	2483.965	45.85	27.87	-23.95	49.76	54.00	4.24	206	148	Horizontal
4	2487.55	41.62	27.88	-23.94	45.56	54.00	8.44	206	148	Horizontal

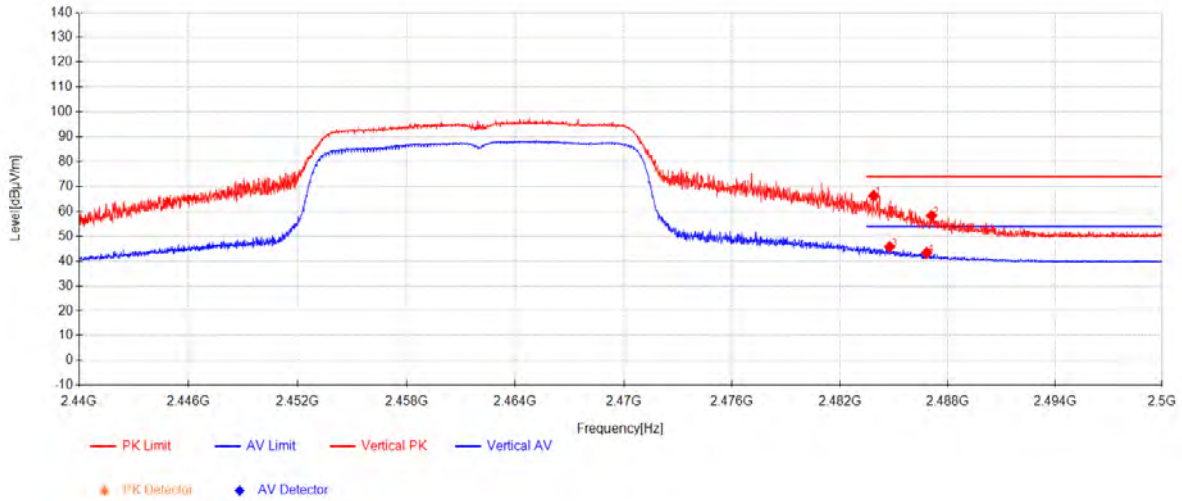


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802.11n20\_Channel 11



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	62.35	27.87	-23.96	66.26	74.00	7.74	289	265	Vertical
2	2487.1	54.32	27.87	-23.94	58.26	74.00	15.74	289	265	Vertical
3	2484.775	41.85	27.87	-23.95	45.77	54.00	8.23	289	265	Vertical
4	2486.83	39.38	27.87	-23.94	43.31	54.00	10.69	289	265	Vertical

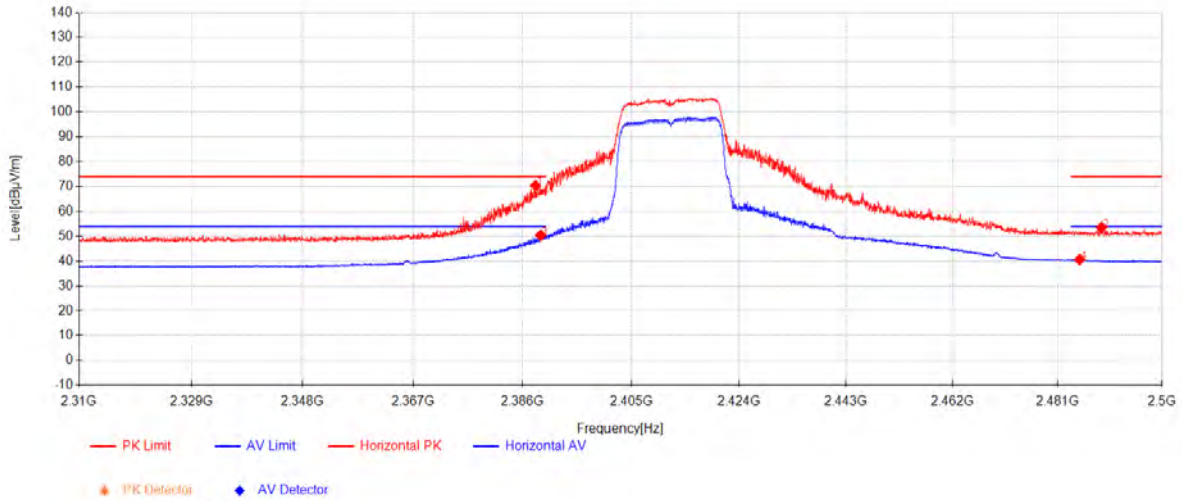


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802.11n40\_Channel 03



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	2388.2427	67.13	27.68	-24.43	70.38	74.00	3.62	142	153	Horizontal
2	2488.96	49.55	27.88	-23.93	53.50	74.00	20.50	142	153	Horizontal
3	2389.1531	47.13	27.68	-24.42	50.38	54.00	3.62	142	153	Horizontal
4	2485	36.66	27.87	-23.95	40.58	54.00	13.42	142	153	Horizontal



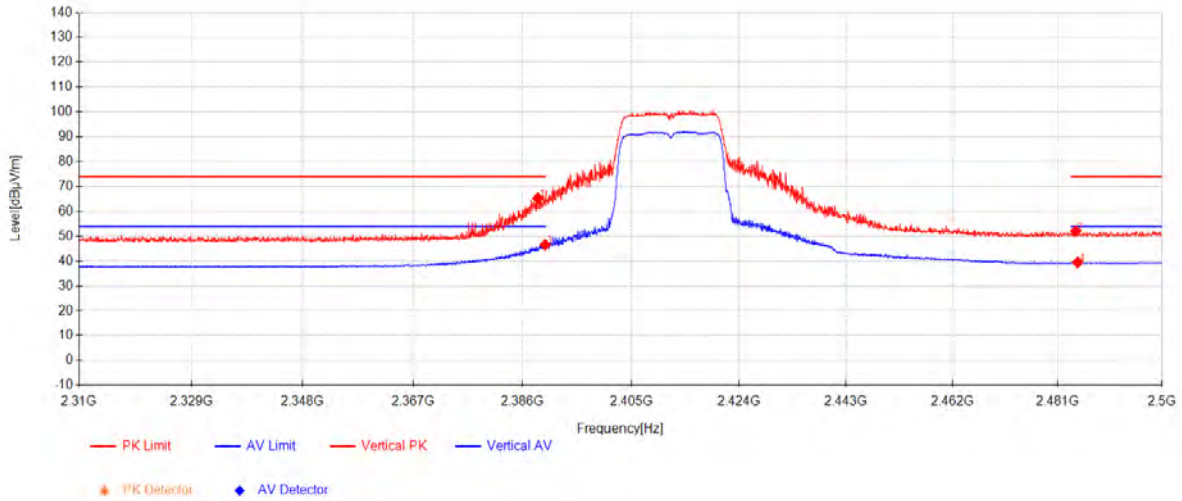
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802.11n40\_Channel 03



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	2388.6762	62.05	27.68	-24.42	65.30	74.00	8.70	365	71	Vertical
2	2484.28	48.16	27.87	-23.95	52.08	74.00	21.92	365	71	Vertical
3	2389.9333	43.30	27.68	-24.42	46.56	54.00	7.44	365	71	Vertical
4	2484.64	35.56	27.87	-23.95	39.48	54.00	14.52	365	71	Vertical



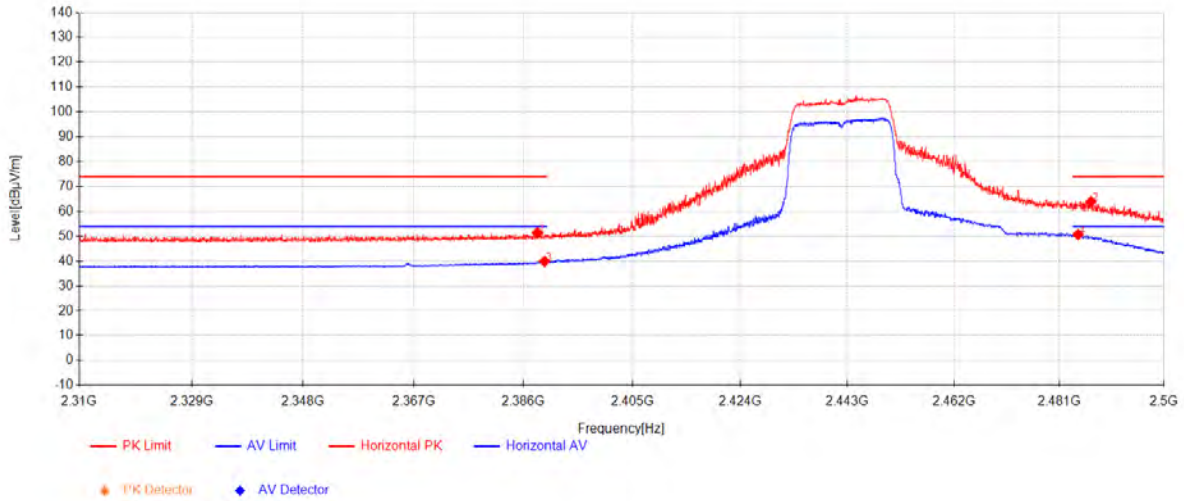
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802.11n40\_Channel 09



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	2388.4161	48.18	27.68	-24.43	51.43	74.00	22.57	147	152	Horizontal
2	2486.74	59.95	27.87	-23.94	63.88	74.00	10.12	147	152	Horizontal
3	2389.6732	36.64	27.68	-24.42	39.90	54.00	14.10	147	152	Horizontal
4	2484.4	46.76	27.87	-23.95	50.68	54.00	3.32	147	152	Horizontal

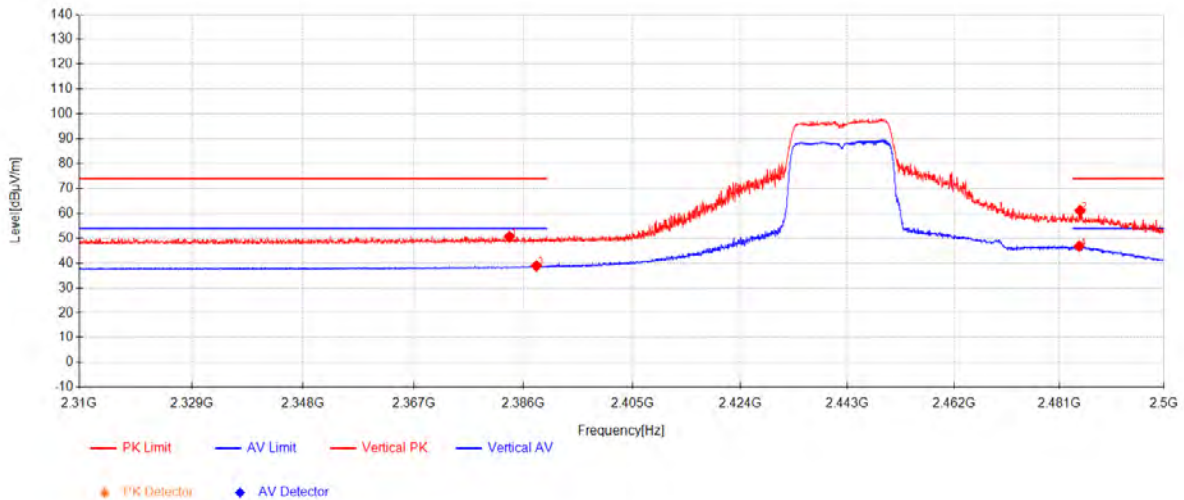


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802.11n40\_Channel 09



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	2383.5612	47.44	27.67	-24.44	50.67	74.00	23.33	362	211	Vertical
2	2484.76	57.16	27.87	-23.95	61.08	74.00	12.92	362	211	Vertical
3	2388.2427	35.60	27.68	-24.43	38.85	54.00	15.15	362	211	Vertical
4	2484.58	42.85	27.87	-23.95	46.77	54.00	7.23	362	211	Vertical



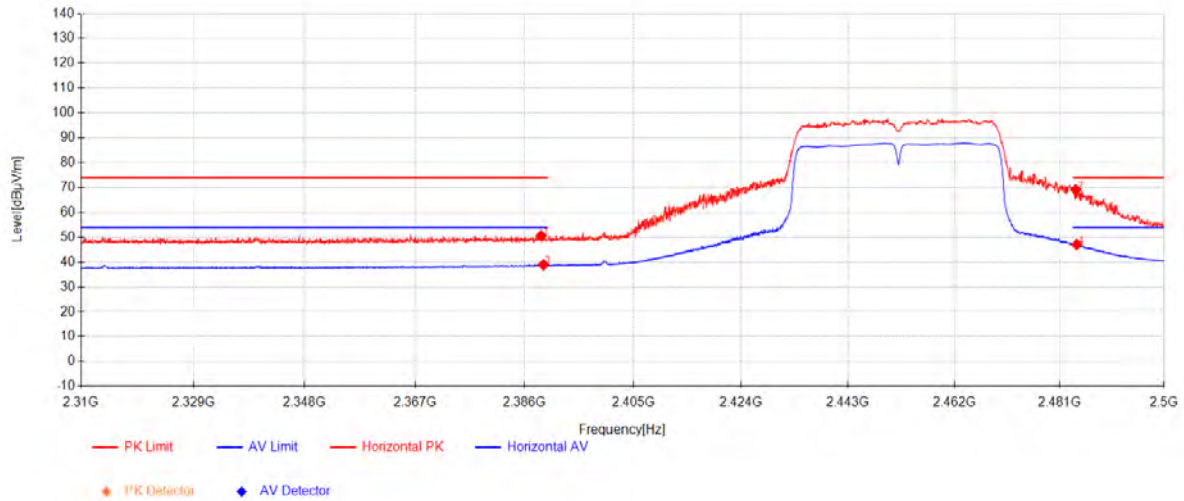
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**For Sample #2(Worst):**

**802.11n40\_Channel 09**



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	2388.893	47.33	27.68	-24.42	50.58	74.00	23.42	151	149	Horizontal
2	2483.92	65.21	27.87	-23.96	69.12	74.00	4.88	151	149	Horizontal
3	2389.2831	35.69	27.68	-24.42	38.94	54.00	15.06	151	149	Horizontal
4	2484.1	43.11	27.87	-23.95	47.02	54.00	6.98	151	149	Horizontal

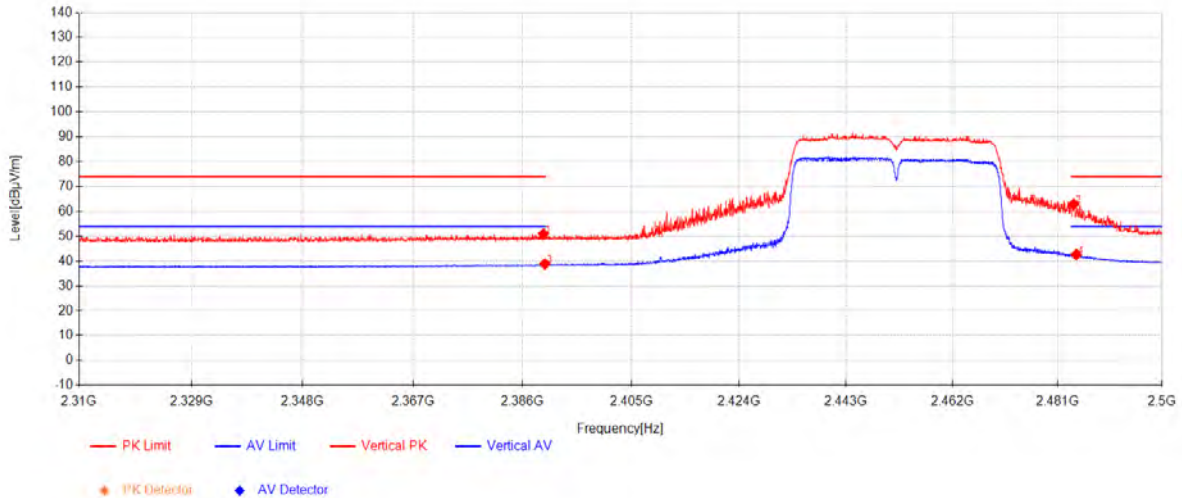


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802.11n40\_Channel 09



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	2389.6299	47.68	27.68	-24.42	50.94	74.00	23.06	354	282	Vertical
2	2483.92	59.00	27.87	-23.96	62.91	74.00	11.09	354	282	Vertical
3	2389.89	35.57	27.68	-24.42	38.83	54.00	15.17	354	282	Vertical
4	2484.4	38.69	27.87	-23.95	42.61	54.00	11.39	354	282	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

---End of Report---



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**Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

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