

Report No.: SUCR241200051805  
Rev.: 01  
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## TEST REPORT

**Application No.:** SUCR2412000518IT  
**Applicant:** Wacom Co., Ltd  
**Address of Applicant:** 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan  
**Manufacturer:** Wacom Co., Ltd  
**Address of Manufacturer:** 2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan  
**EUT Description:** Portable Pad  
**Model No.:** DTHA116, DTHA116\*\*\*\*\*("\*" maybe alphanumeric/symbol or blank)  
**Trade Mark:** Wacom  
**FCC ID:** HV4DTHA116  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** December 4, 2024  
**Date of Test:** December 14, 2024 to January 13, 2025  
**Date of Issue:** January 23, 2025

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

*Nature Shen*

*Cloud Peng*

**Prepared by: Nature Shen/ Project Manager**

**Approved by: Cloud Peng/  
Technical Manager**

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Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		January 23, 2025		Original

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Wireless Laboratory

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)

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## 1 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result	Test Lab*
Antenna Requirement	15.203/15.247(b)	--	Clause 3.1	PASS	--
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.2	PASS	C
Duty Cycle	--	ANSI C63.10 2013 Section 11.6	Clause 3.3	For Report Purpose	A
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.1.3	Clause 3.4	PASS	A
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 3.5	PASS	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 3.6	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 3.7	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 3.8	PASS	A
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.9	PASS	C
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.10	PASS	C

### Remark:

Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Lab B SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab C SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.

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## 2 General Information

### 2.1 Details of Client

Applicant:	Wacom Co., Ltd
Address of Applicant:	2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan
Manufacturer:	Wacom Co., Ltd
Address of Manufacturer:	2-510-1 Toyonodai, Kazo-shi, Saitama 349-1148, Japan

### 2.2 Test Location

<b>Lab A:</b>	
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:	Aiden_Ma
<b>Lab C:</b>	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Abbott Wang

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## 2.3 Test Facility

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

### Lab A:

- **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

### Lab C:

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

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

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

- **FCC –Designation Number: CN1337**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

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### 2.4 General Description of EUT

EUT Description:	Portable Pad		
Model No.:	DTHA116, DTHA116*****("*" maybe alphanumeric/symbol or blank)		
Trade Mark:	Wacom		
Hardware Version:	V3		
Software Version:	1V01SU.03.00.00		
Power Supply:	3.45~4.33V, typ3.86V		
Operation Frequency:	802.11b/g/n(HT20):		2412MHz to 2462MHz
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		
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:	Cavity Antenna		
Antenna Gain:	2.32dBi		
	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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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		
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)					
The Lowest channel		2412MHz					
The Middle channel		2437MHz					
The Highest channel		2462MHz					

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## 2.5 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		

## 2.6 Description of Support Units

Description	Manufacturer	Model No.
USB cable	HUIZHOU WASHIN ELECTRONICS CO.,LTD	HX-HQ-28
Remark: all above the information of table are provided by client.		

## 2.7 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)	/

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## 3 Test results and Measurement Data

### 3.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(b)
<p>15.203 requirement:</p> <p>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:</p> <p>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 Cavity Antenna and no consideration of replacement. The best case gain of the antenna is 2.32dBi.</p> <p><i>Note:</i></p> <p><i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i></p> <p><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></p>	

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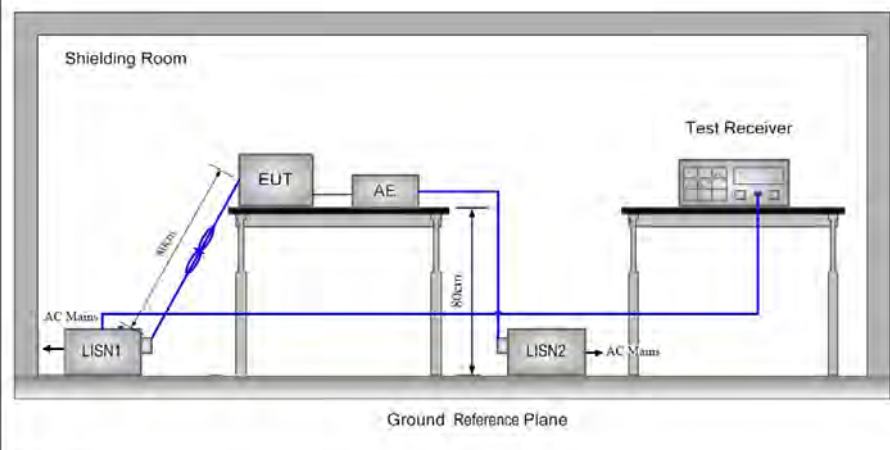
### 3.2 AC Power Line Conducted Emissions

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

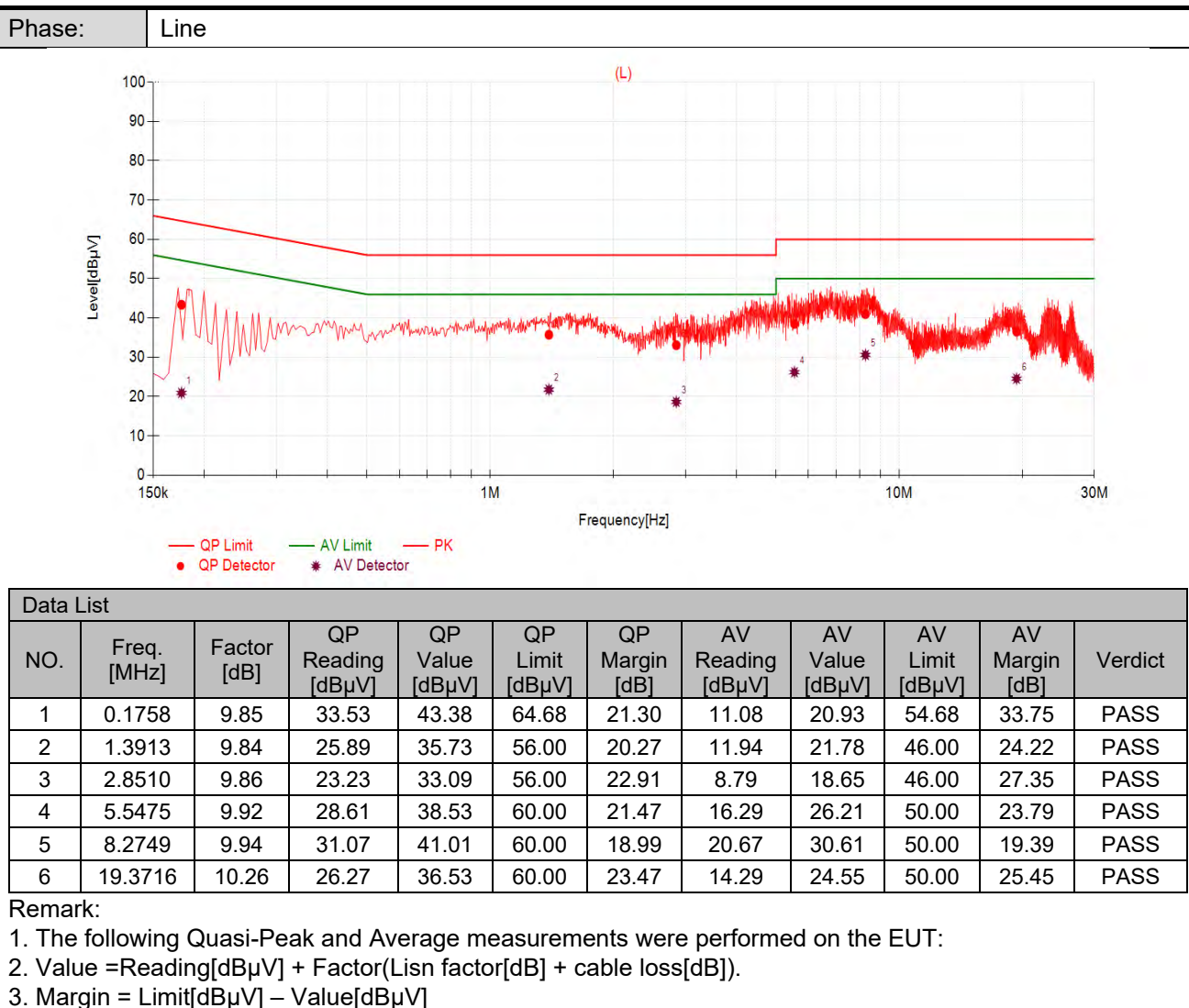
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### Measurement Data

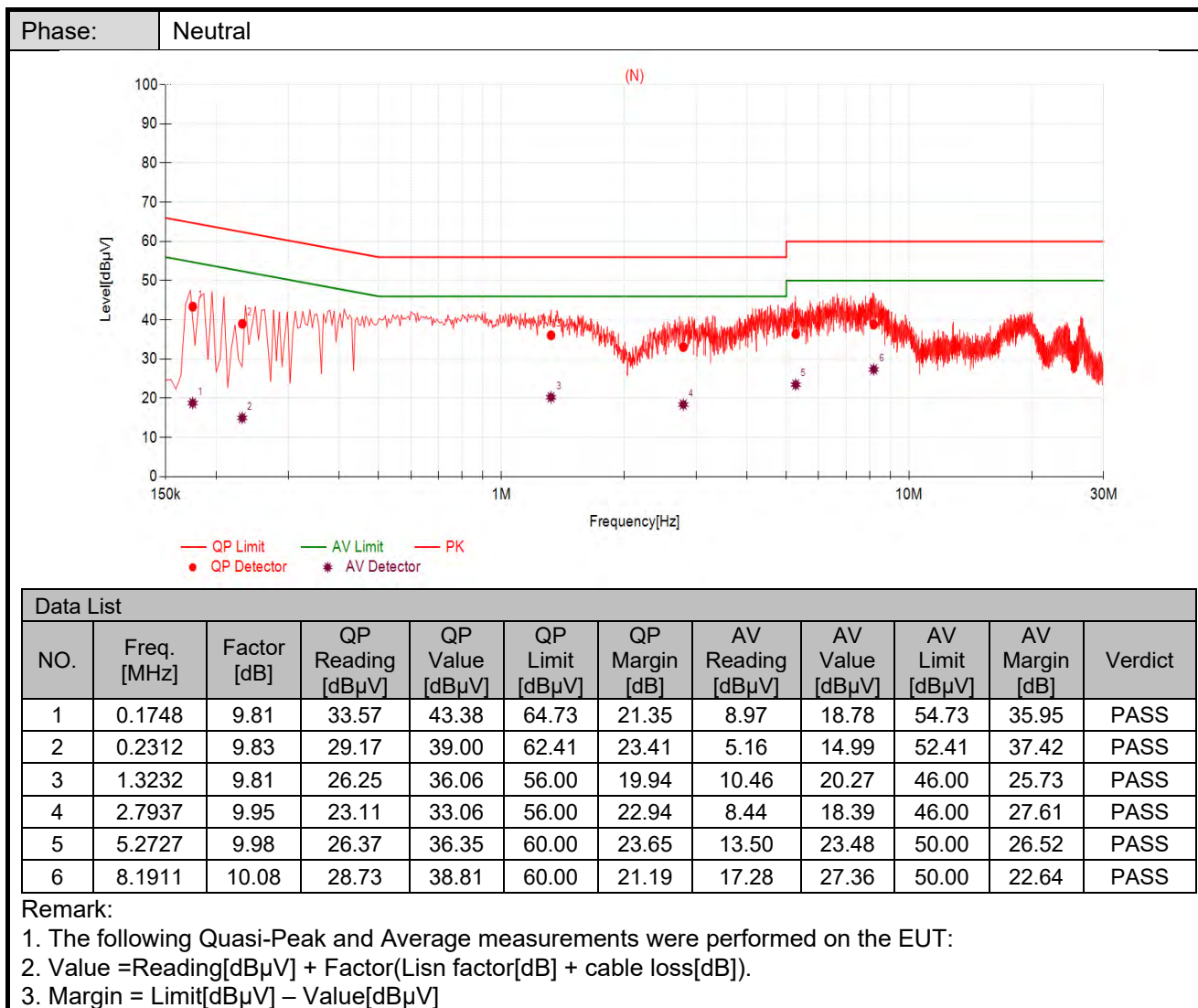
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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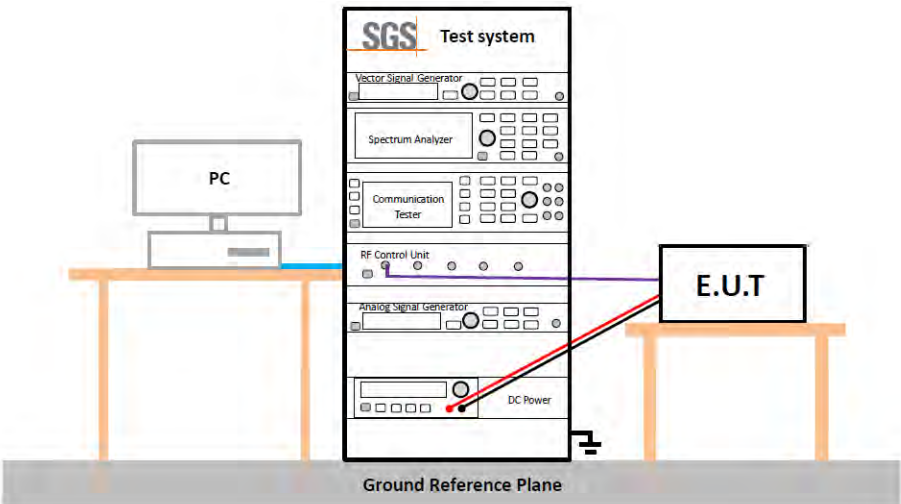


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### 3.3 Duty Cycle

Test Requirement:	ANSI C63.10 :2013 Section 11.6
Test Method:	ANSI C63.10 :2013 Section 11.6
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:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	

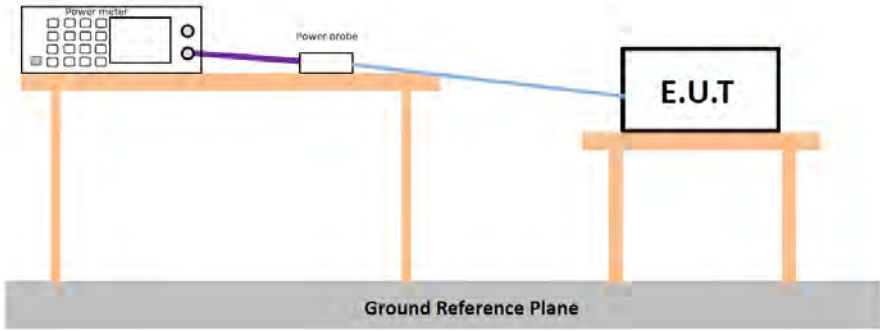
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### 3.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
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>	

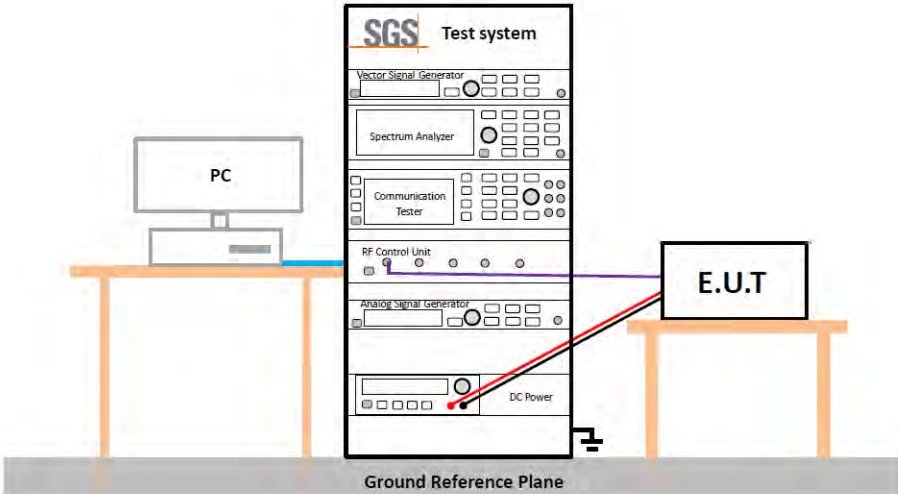
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### 3.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

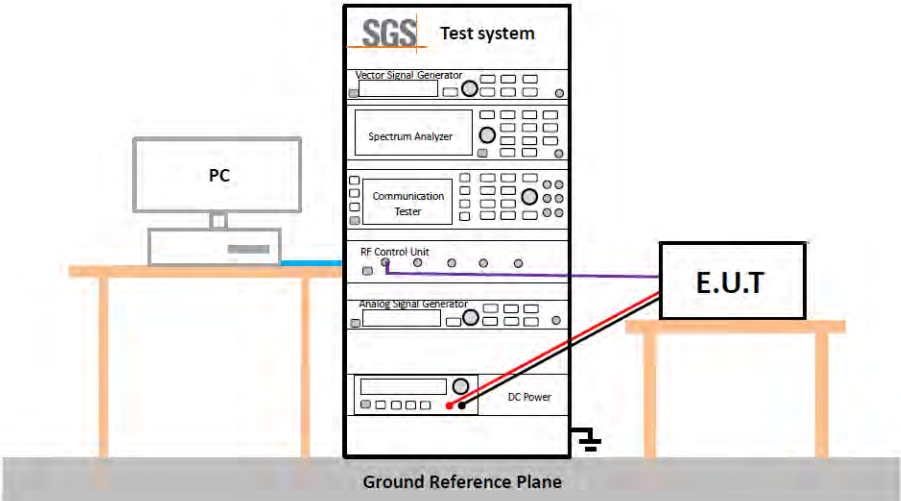
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.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

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### 3.6 Power Spectral Density

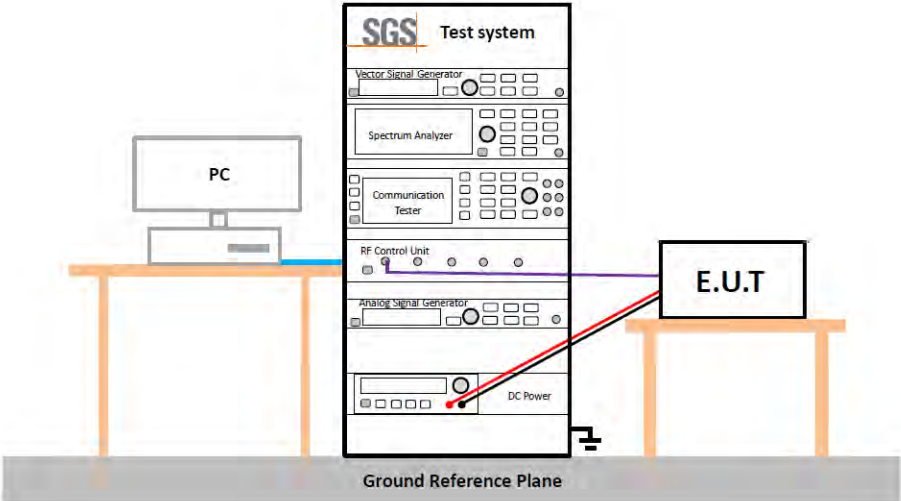
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	$\leq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

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### 3.7 Band-edge for RF Conducted Emissions

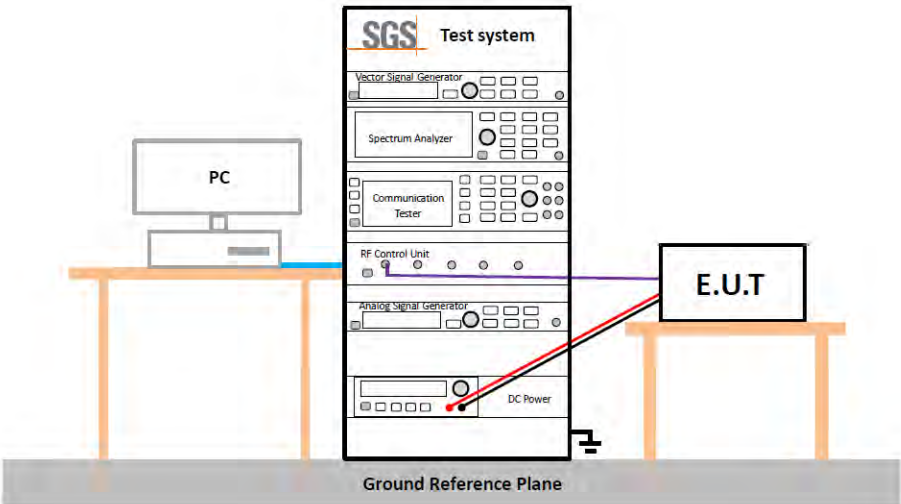
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 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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### 3.8 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>	

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## 3.9 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
	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.				

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### Test Setup:

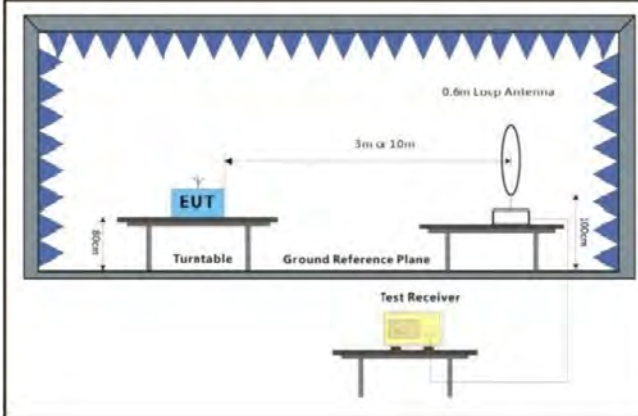


Figure 1. Below 30MHz

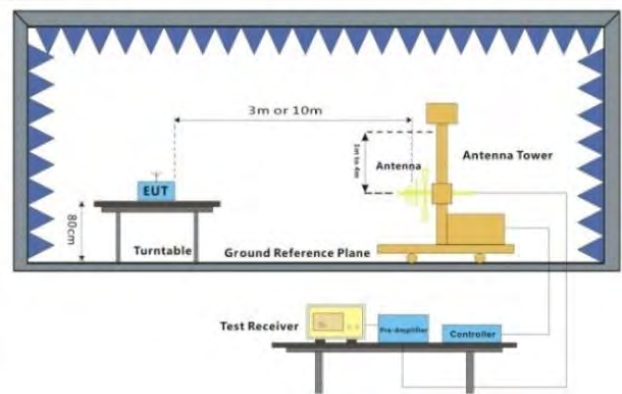


Figure 2. 30MHz to 1GHz

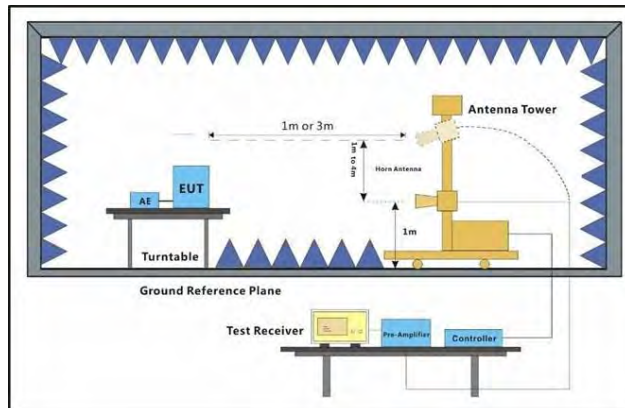


Figure 3. Above 1 GHz

### 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.

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	<p>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 (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.</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 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-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 3 \text{ MHz}</math></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 = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq 1/T</math>, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>

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

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Rev.: 01

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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Adapter + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but 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: <b>Appendix</b>	

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### 3.10 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:

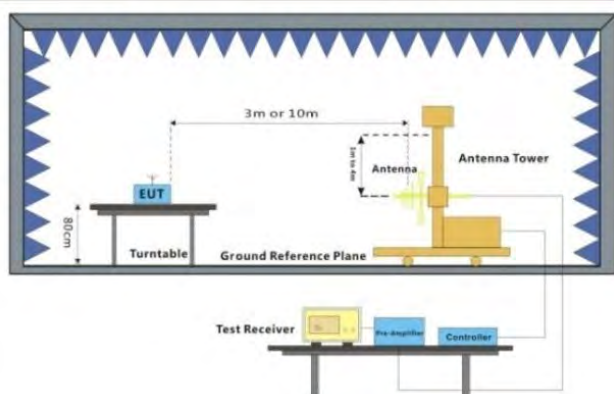


Figure 1. 30MHz to 1GHz

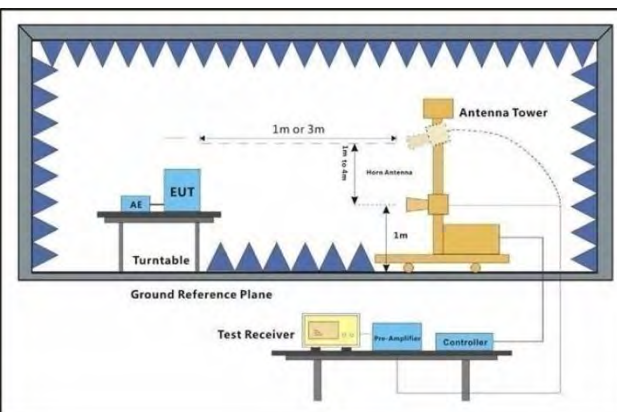


Figure 2. Above 1 GHz

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Test Procedure:	<ol style="list-style-type: none"> <li>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>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>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>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>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>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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>Test the EUT in the lowest channel , the Highest channel</li> <li>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>Repeat above procedures until all frequencies measured was complete.</li> </ol>
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 = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>

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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Adapter + 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 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:		
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%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1%
Lab C:		
No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.6dB (9KHz~30MHz)
		± 4.9dB (30MHz~1GHz)
		± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (Above 18GHz)
Remark: The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>CISPR/ETSI</sub> (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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## 5 Equipment List

Lab A:					
RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/9	2025/11/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/2/18	2025/2/17
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2024/5/8	2025/5/7
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/5/8	2025/5/7
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2024/5/9	2025/5/8
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2024/2/4	2025/2/3
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/2/4	2025/2/3
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2024/11/19	2025/11/18
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2024/11/19	2025/11/18
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/2/4	2025/2/3
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR
Router	TP-LINK	Archer BE800 (FCC ID 2AXJ4BE800)	SUWI-03-14-03	NCR	NCR
RF Control Unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR
RF Control Unit	TST	TSCB3023R2	SUWI-02-21-01	NCR	NCR
Signal Generator	ROHDE&SCHWARZ	SMM100A	SUWI-01-07-04	20242/16	2025/2/15
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/19	2025/11/18

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Lab C:					
CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2024/7/3	2025/7/2
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2024/7/3	2025/7/2

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Lab C:					
RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2024/6/4	2027/6/3
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2024/2/2	2025/2/1
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	XAW01-13-05	2024/5/8	2025/5/7
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/7/28	2025/7/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/7/28	2025/7/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/7/23	2025/7/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2024/5/14	2025/5/13
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2024/8/29	2025/8/28
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2024/8/16	2025/8/15
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2024/8/29	2025/8/28
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR
Radio Communication Analyzer	ANRITSU	MT8821	XAW01-03-24	2024/8/16	2025/8/15
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2024/5/23	2026/5/22

Remark: NCR=No Calibration Requirement.

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## 6 Photographs - Setup Photos

Refer to Appendix A.2 BT&WLAN&EMR Setup Photos.

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## 7 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.383	8.413	99.64	0.02	0.04
802.11g	SISO	2412	1.392	1.428	97.48	0.11	0.10
802.11n (HT20)	SISO	2412	1.301	1.336	97.38	0.12	0.07

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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.791	/	Pass
		2437	1	12.912	/	Pass
		2462	1	12.903	/	Pass
802.11g	SISO	2412	1	17.673	/	Pass
		2437	1	17.618	/	Pass
		2462	1	17.460	/	Pass
802.11n (HT20)	SISO	2412	1	18.179	/	Pass
		2437	1	18.287	/	Pass
		2462	1	18.257	/	Pass

#### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.661	$\geq 0.5$	Pass
		2437	1	8.323	$\geq 0.5$	Pass
		2462	1	8.348	$\geq 0.5$	Pass
802.11g	SISO	2412	1	16.205	$\geq 0.5$	Pass
		2437	1	16.326	$\geq 0.5$	Pass
		2462	1	16.364	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	17.329	$\geq 0.5$	Pass
		2437	1	17.494	$\geq 0.5$	Pass
		2462	1	17.362	$\geq 0.5$	Pass

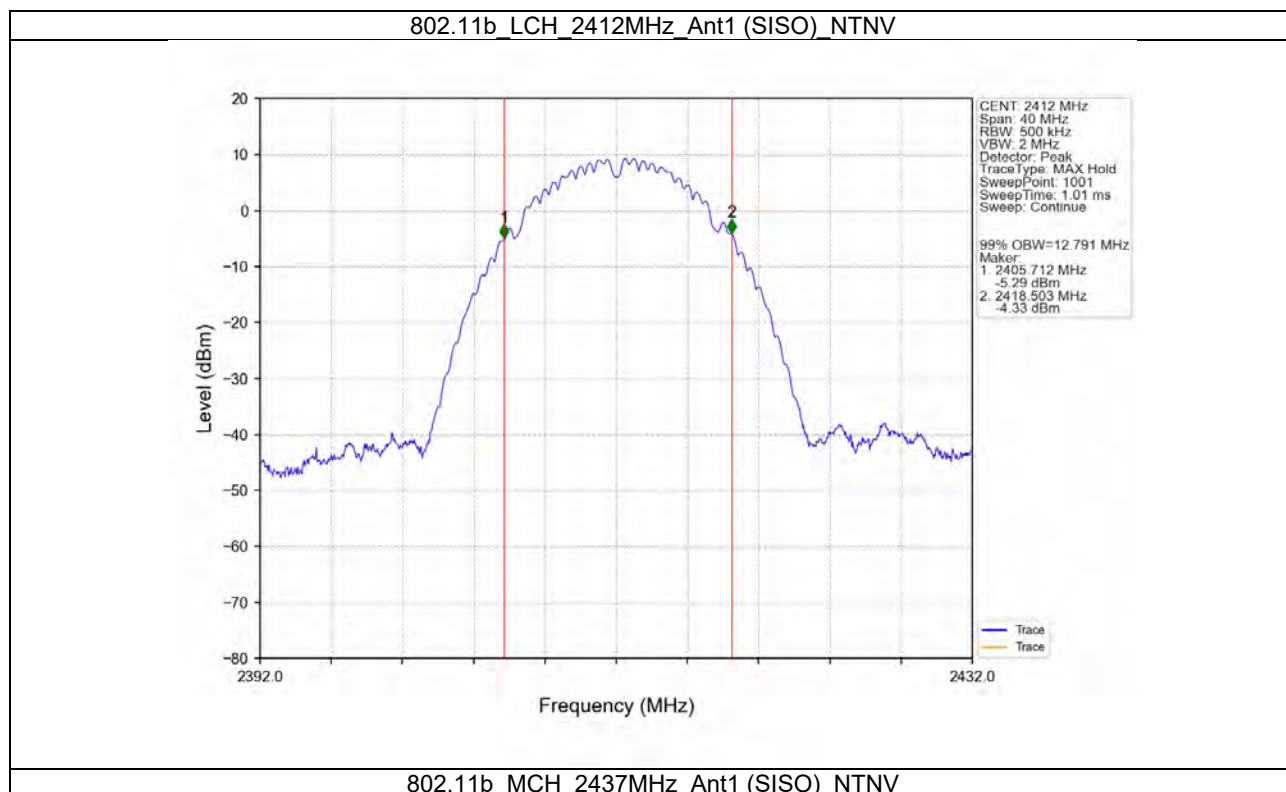
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## 2.2 Test Graph

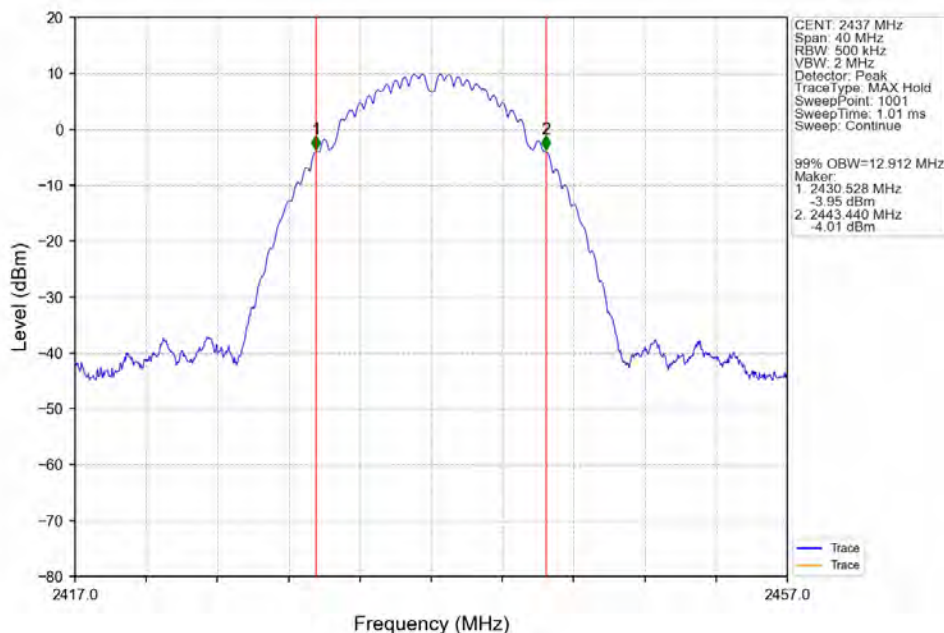
### 2.2.1 OBW



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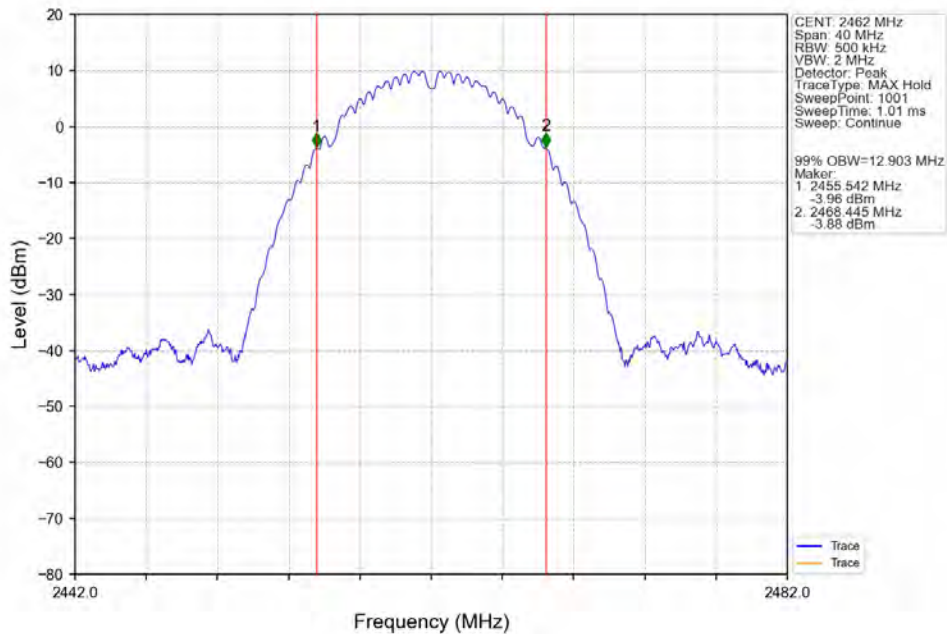


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

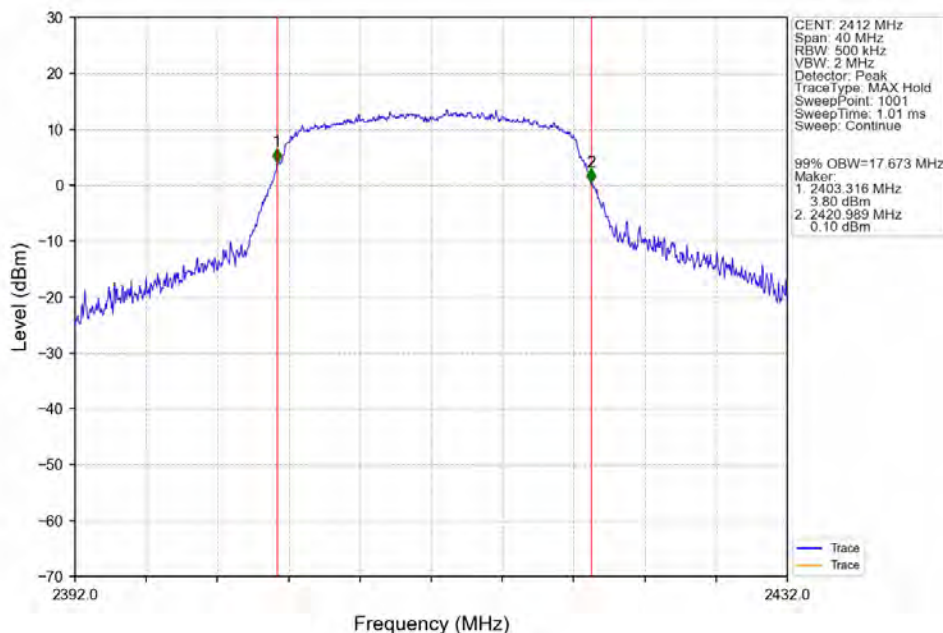


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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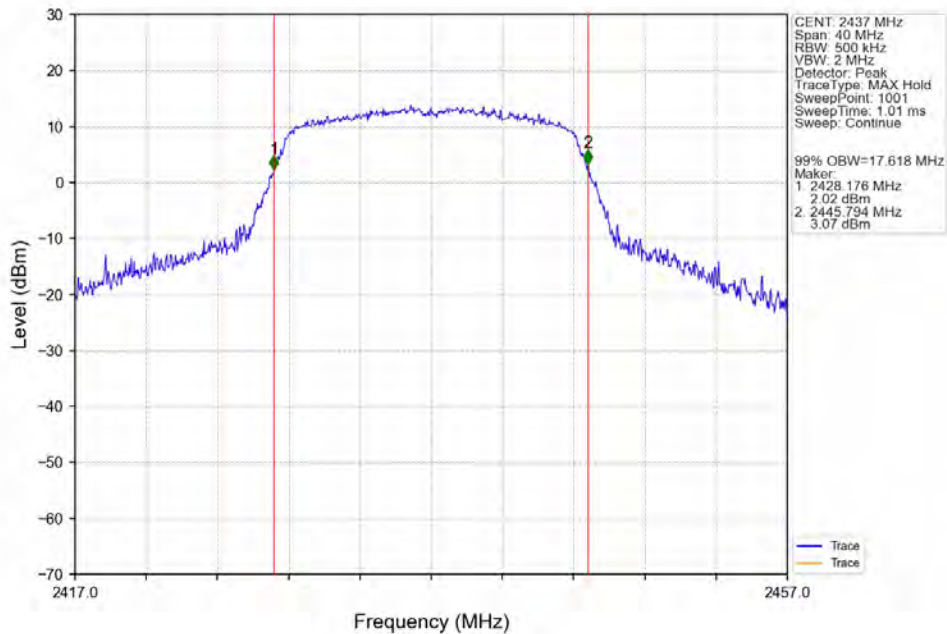


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

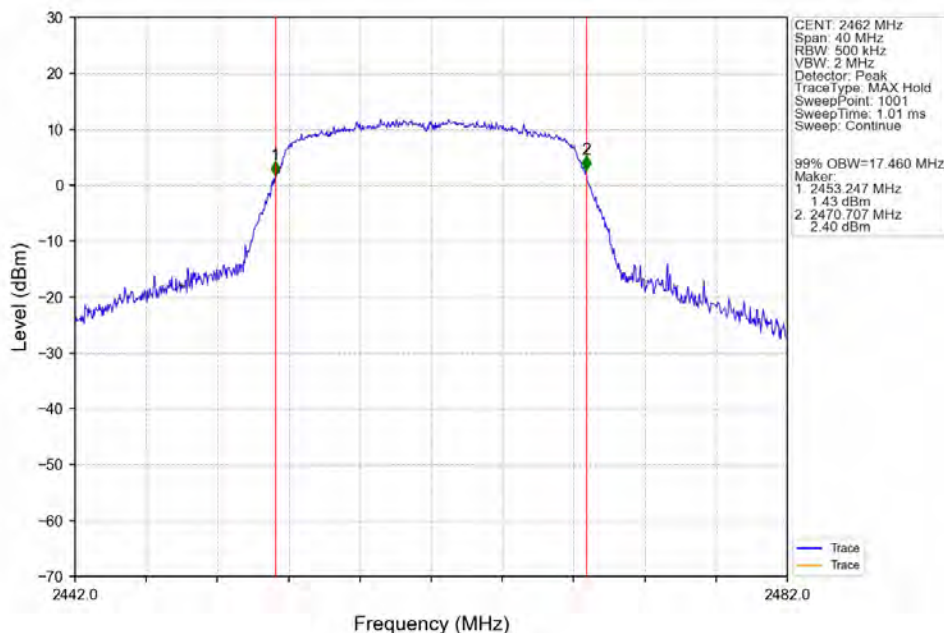


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

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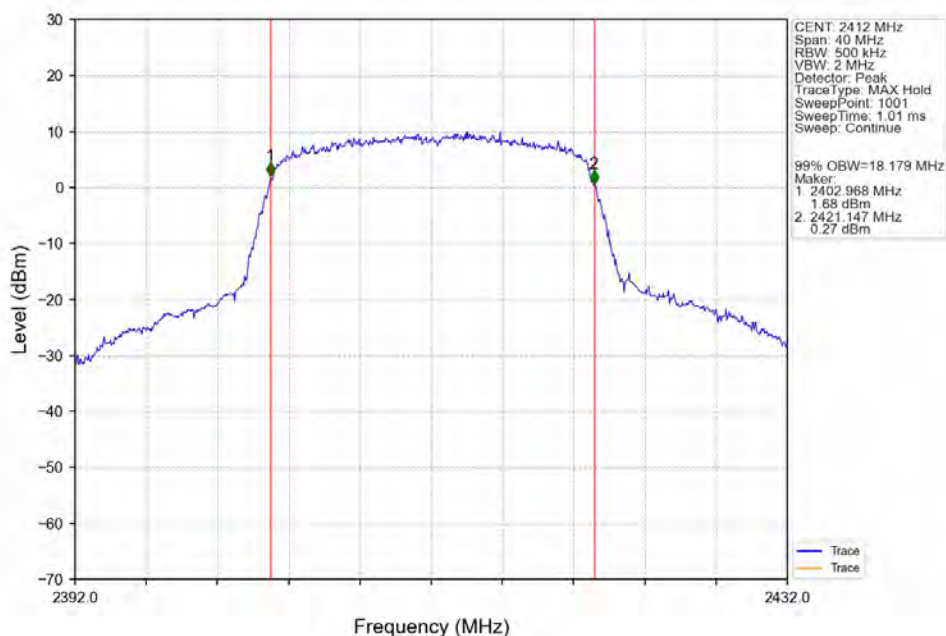
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

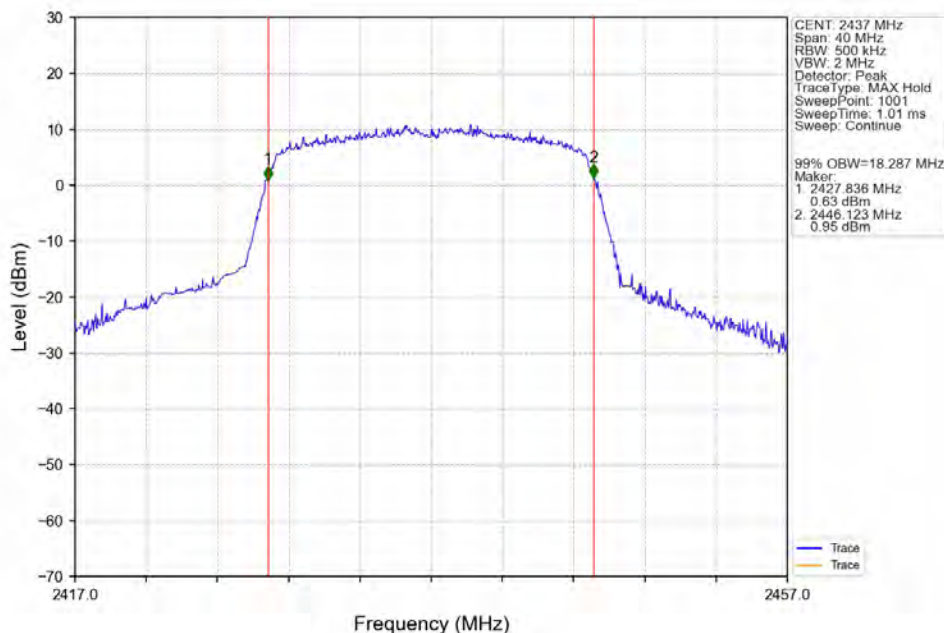


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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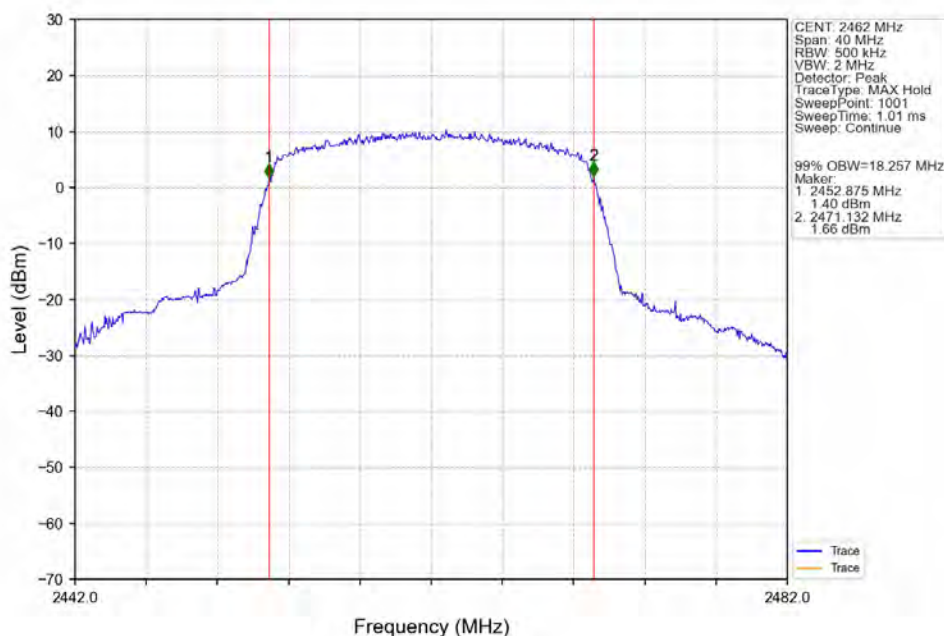


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

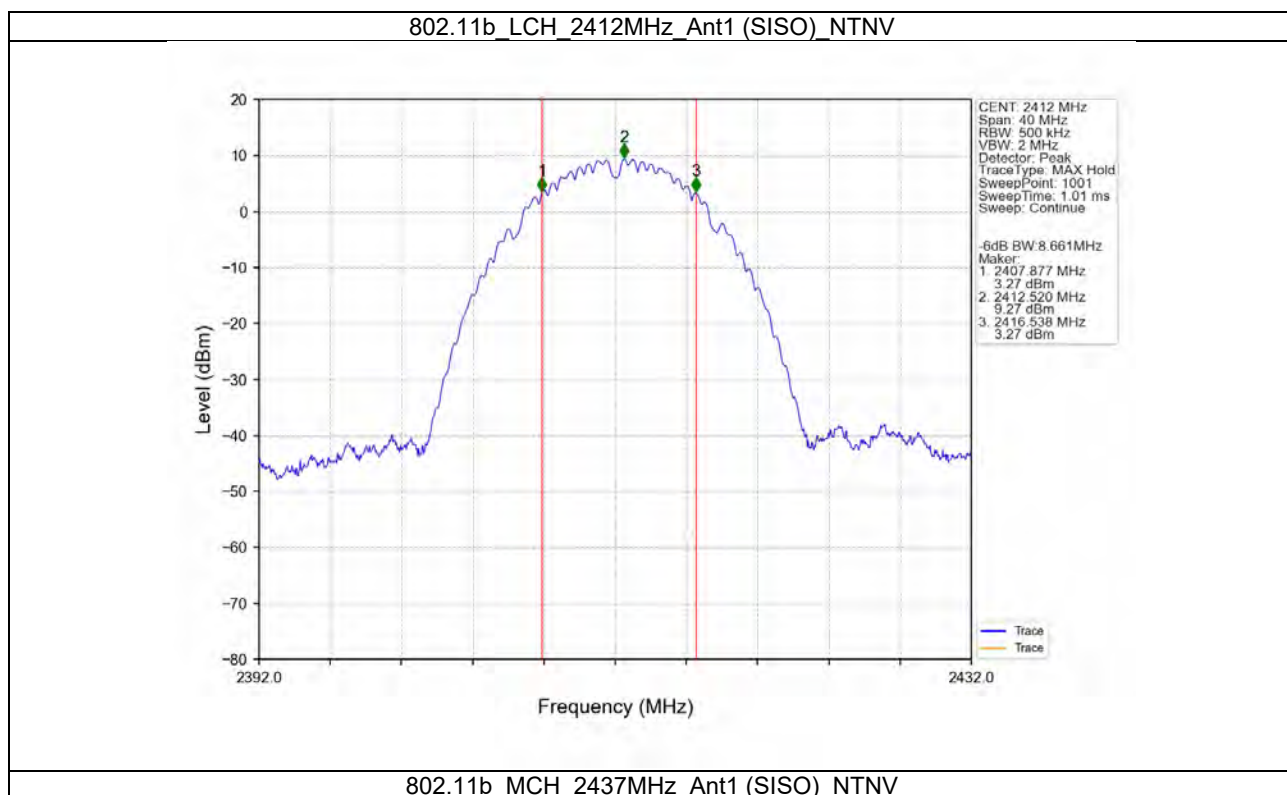


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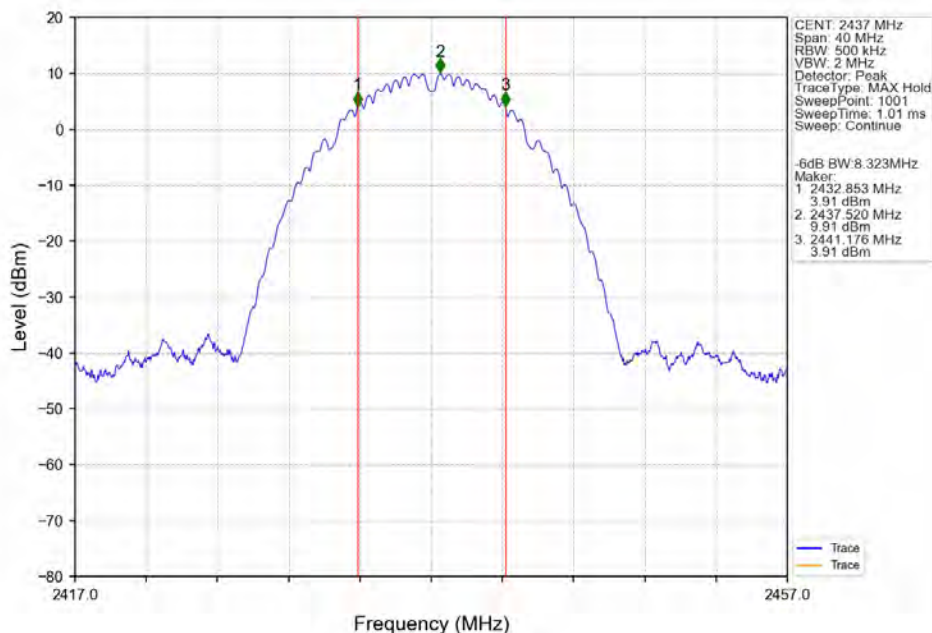
### 2.2.2 6dB BW



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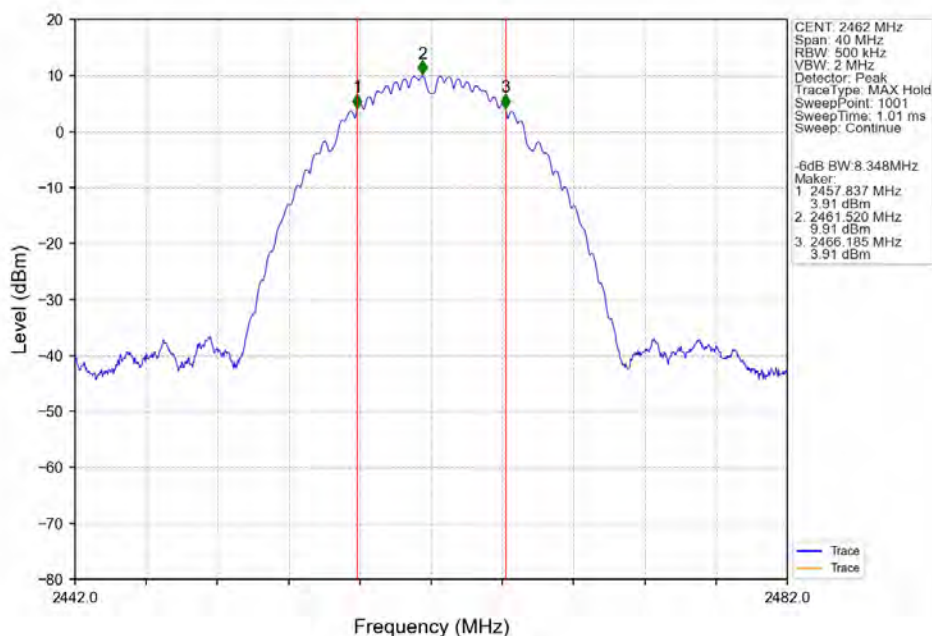


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

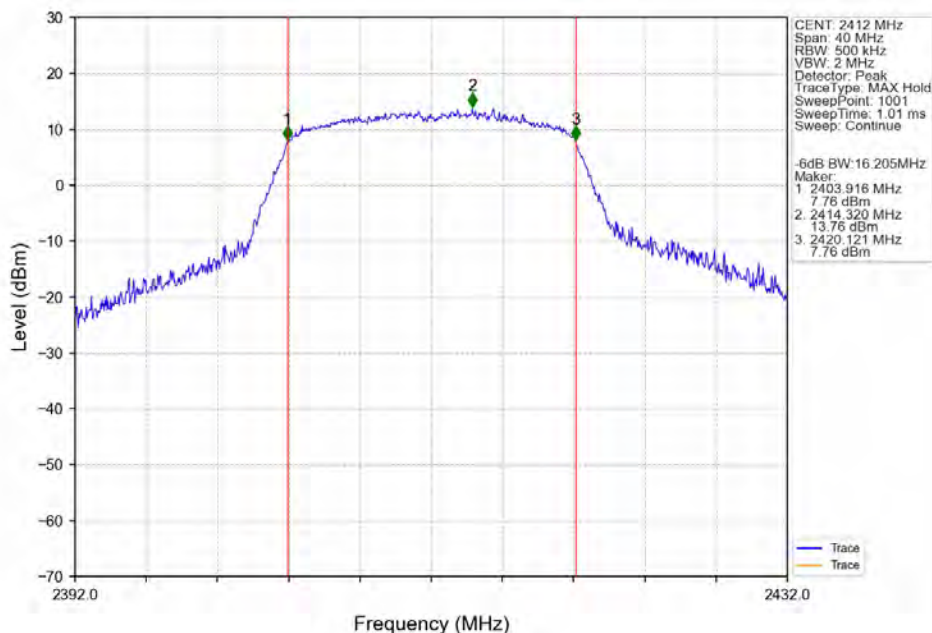


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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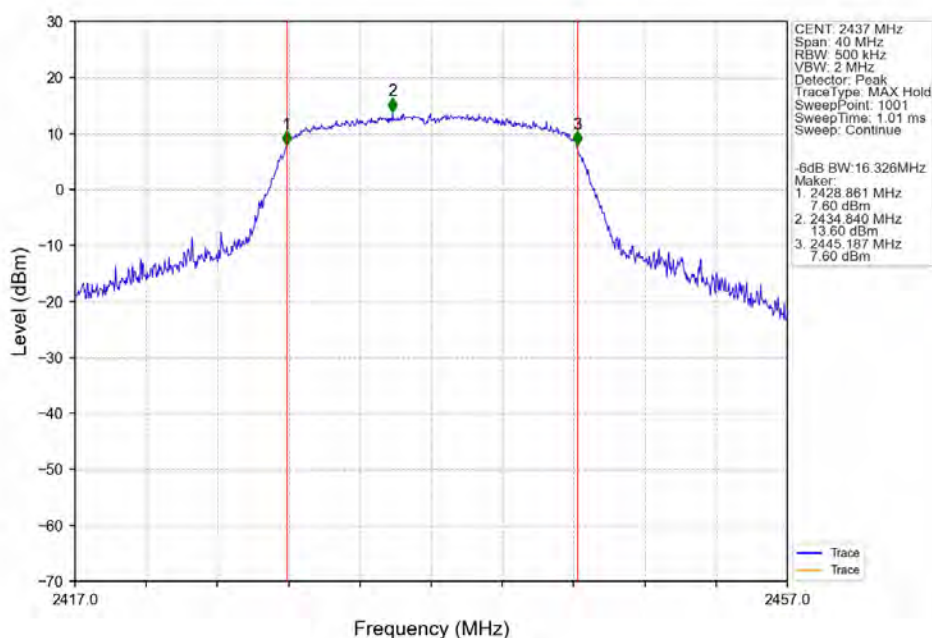
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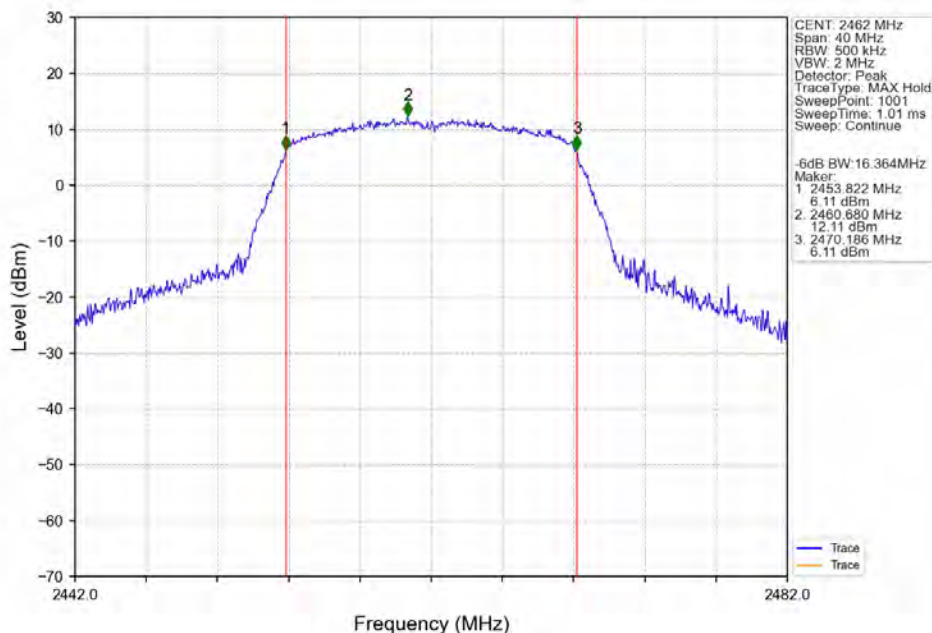
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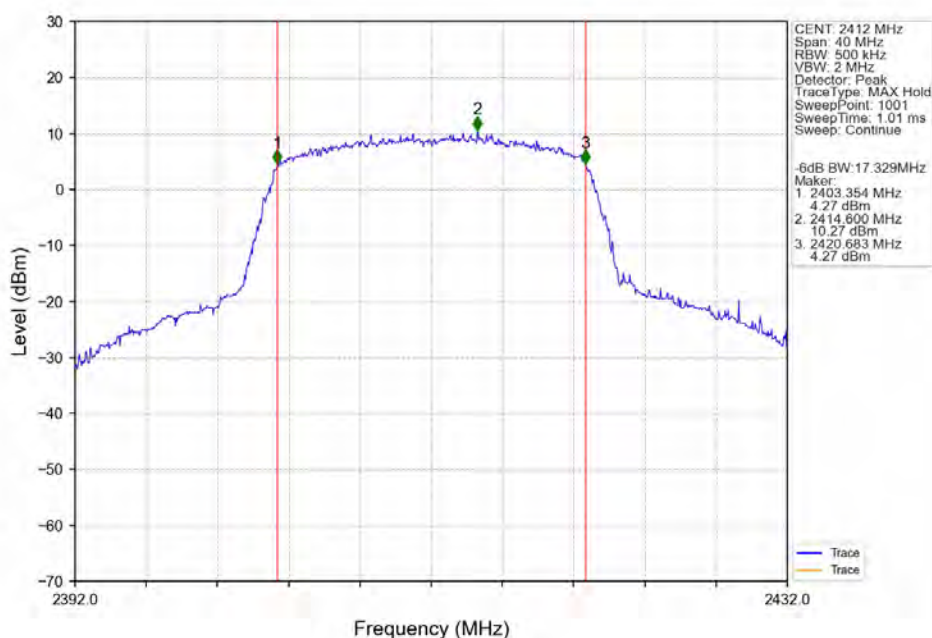


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

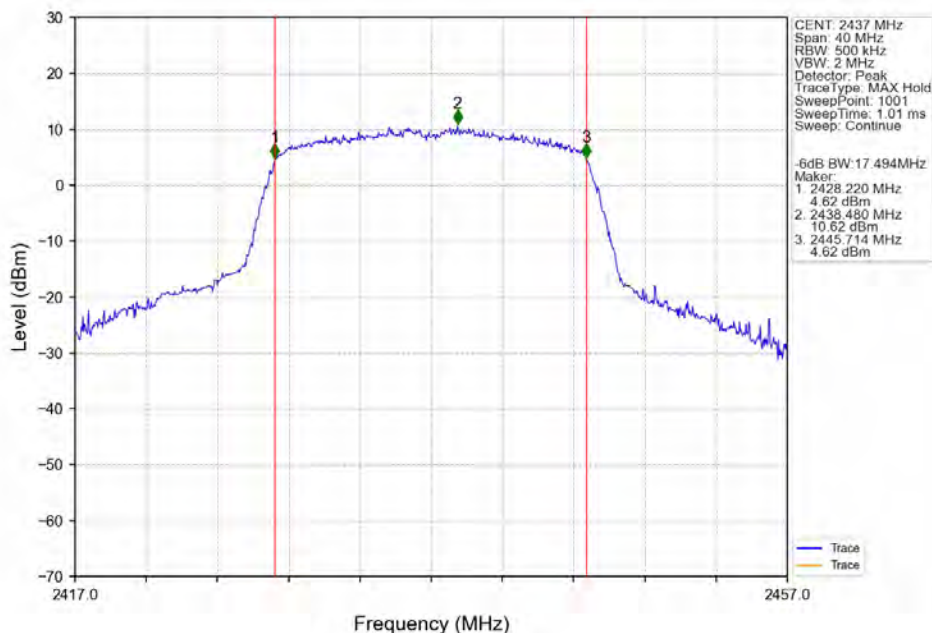


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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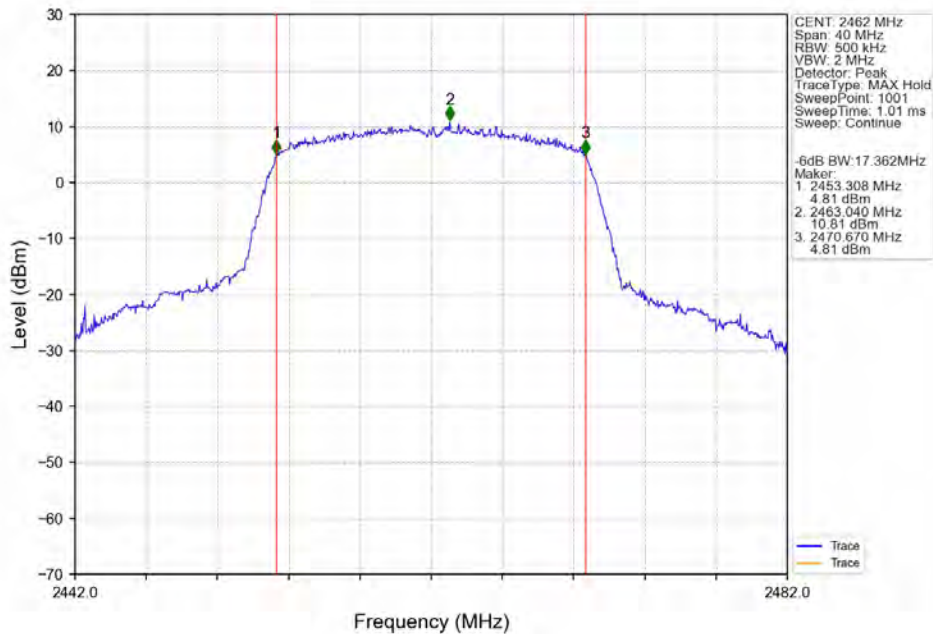


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## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR241200051805

Rev.: 01

Page: 53 of 132

### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	19.26	<=30	Pass
		2437	19.79	<=30	Pass
		2462	19.88	<=30	Pass
802.11g	SISO	2412	22.37	<=30	Pass
		2437	22.73	<=30	Pass
		2462	21.01	<=30	Pass
802.11n (HT20)	SISO	2412	20.35	<=30	Pass
		2437	20.77	<=30	Pass
		2462	20.61	<=30	Pass

Note1: Antenna Gain: Ant1: 2.32dBi;

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

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Rev.: 01

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### 4. Maximum Power Spectral Density

#### 4.1 Test Result

##### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-5.43	<=8	Pass
		2437	-4.97	<=8	Pass
		2462	-4.84	<=8	Pass
802.11g	SISO	2412	-5.73	<=8	Pass
		2437	-5.91	<=8	Pass
		2462	-7.59	<=8	Pass
802.11n (HT20)	SISO	2412	-9.64	<=8	Pass
		2437	-9.50	<=8	Pass
		2462	-8.21	<=8	Pass

Note1: Antenna Gain: Ant1: 2.32dBi;

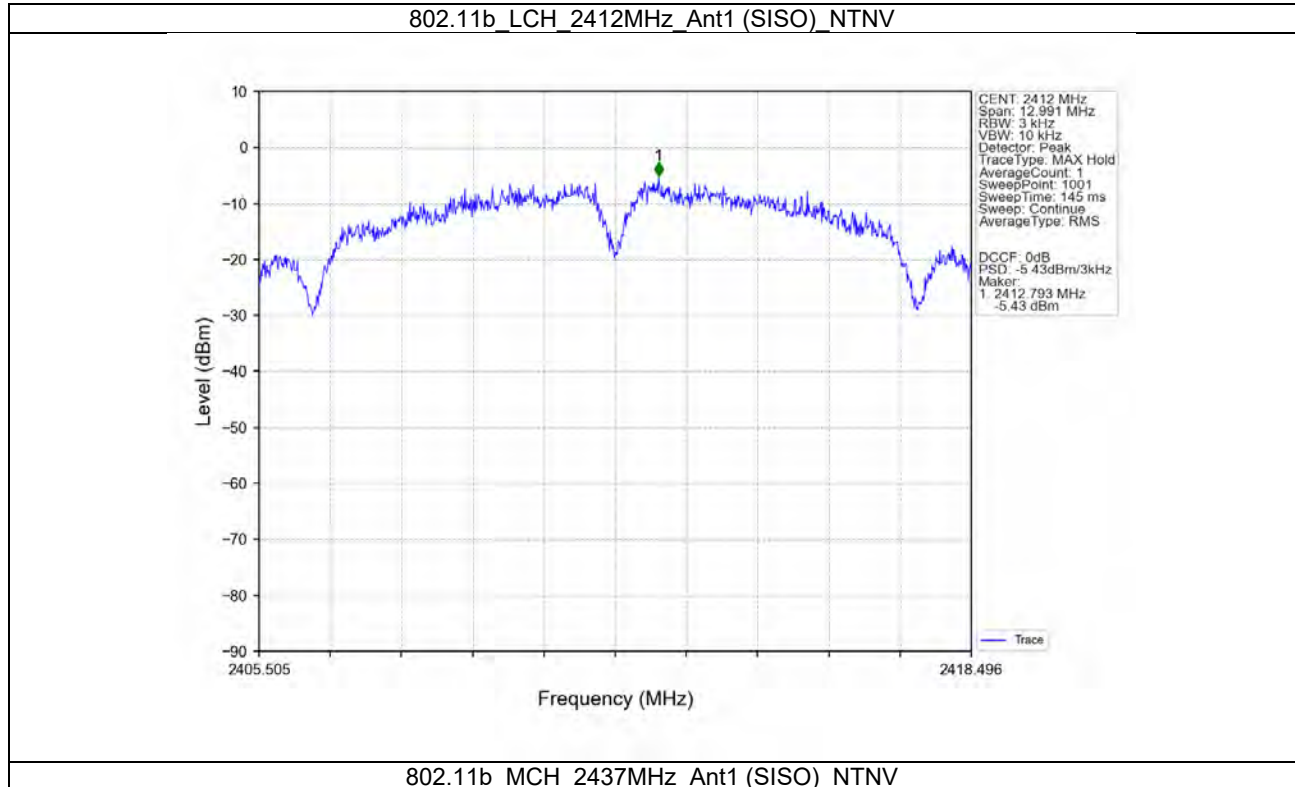
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### 4.2 Test Graph

#### 4.2.1 PSD

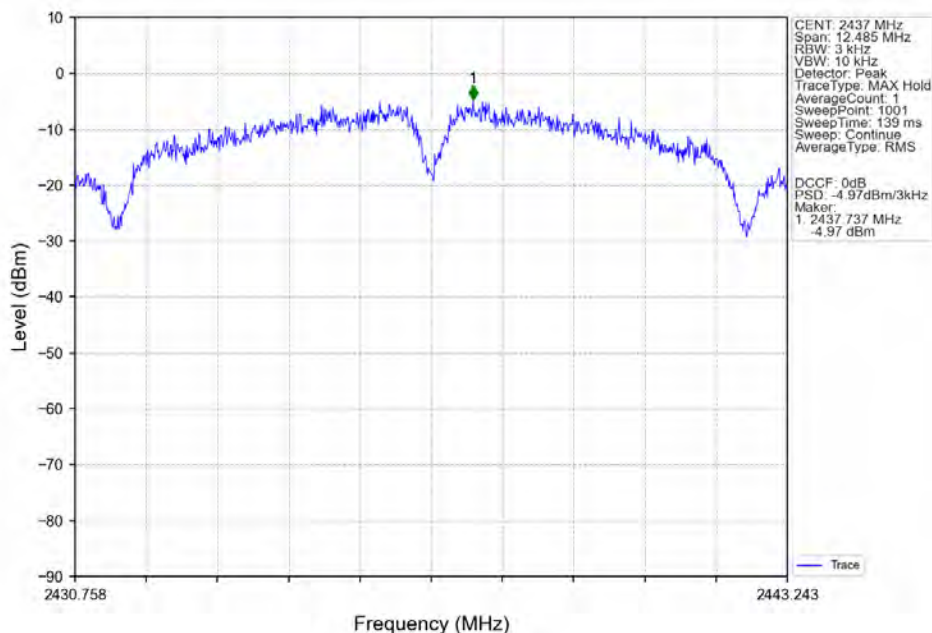


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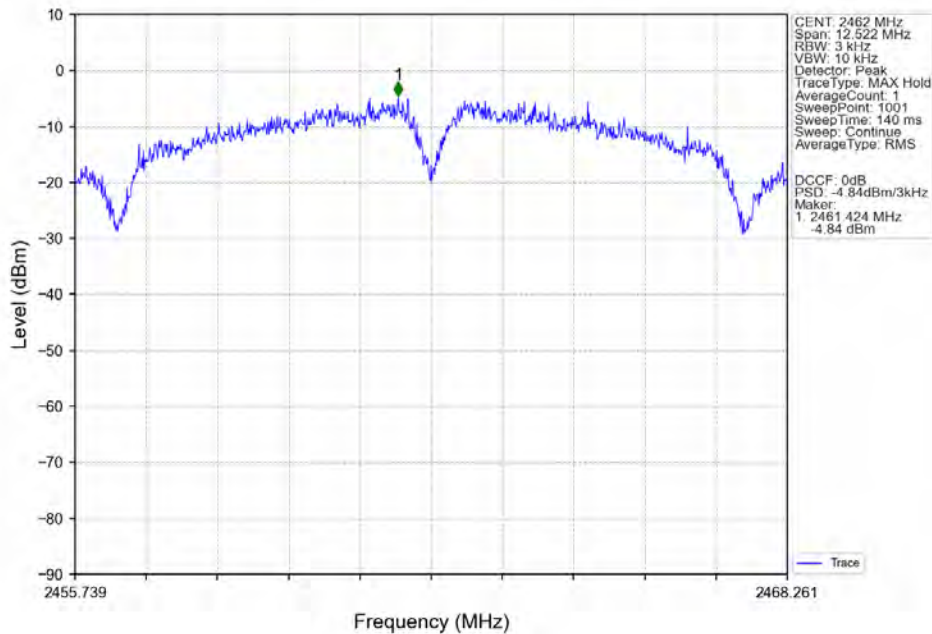


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

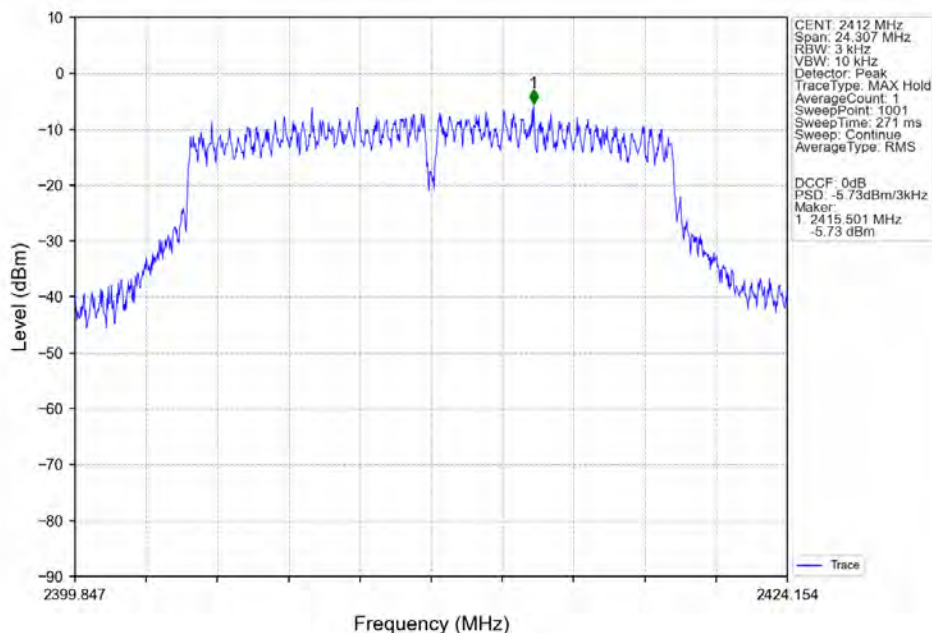


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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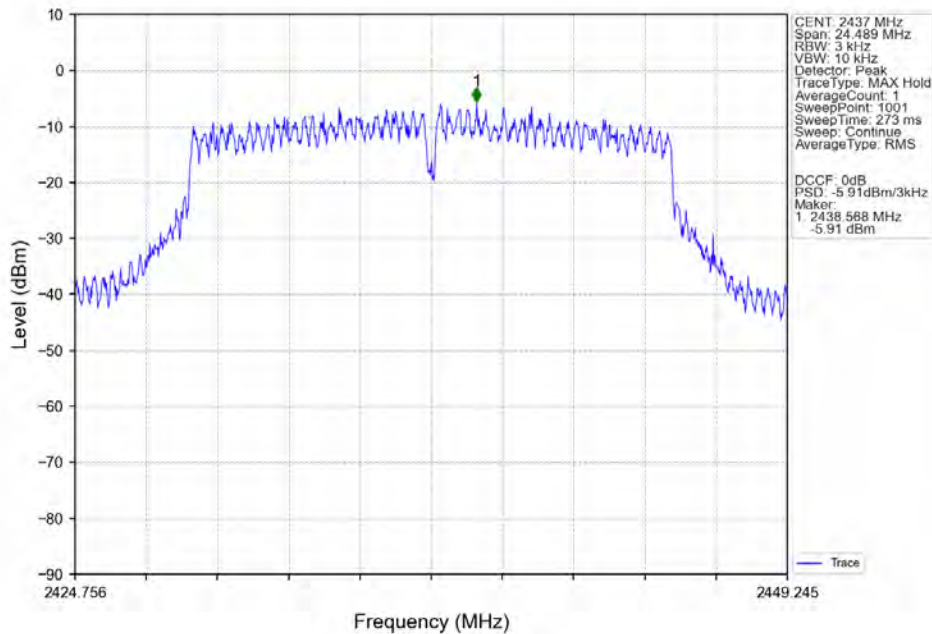


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

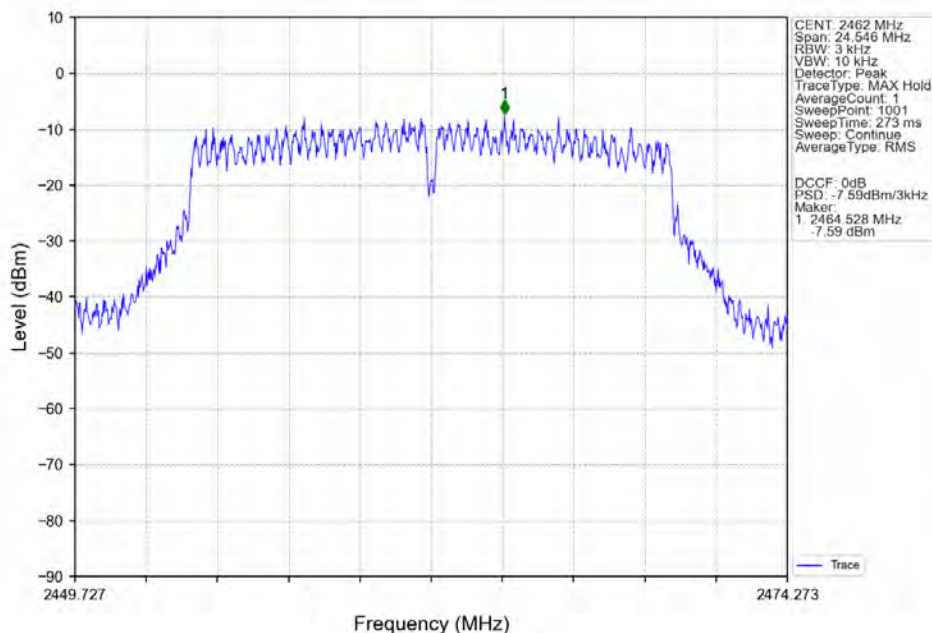


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

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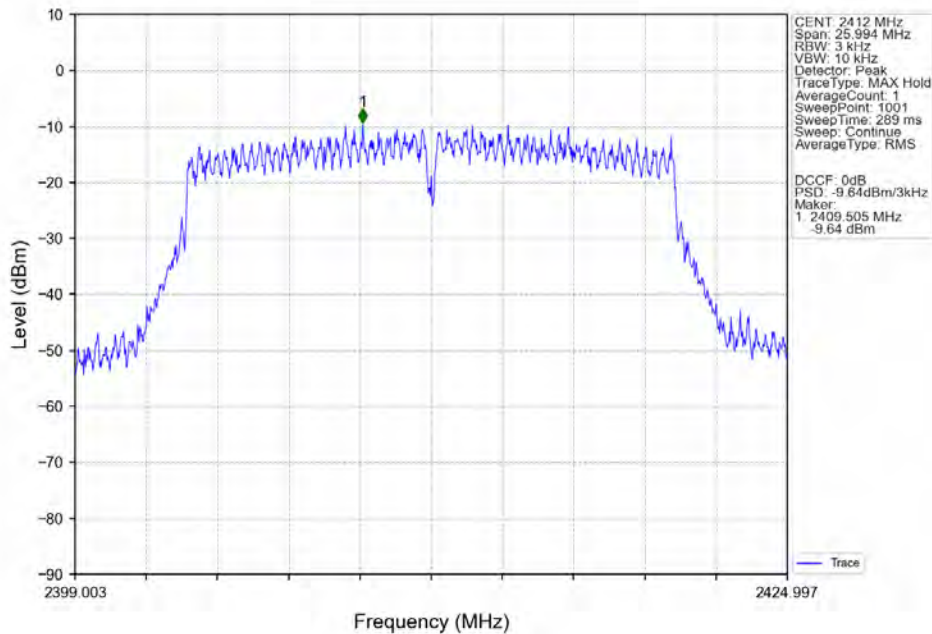


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

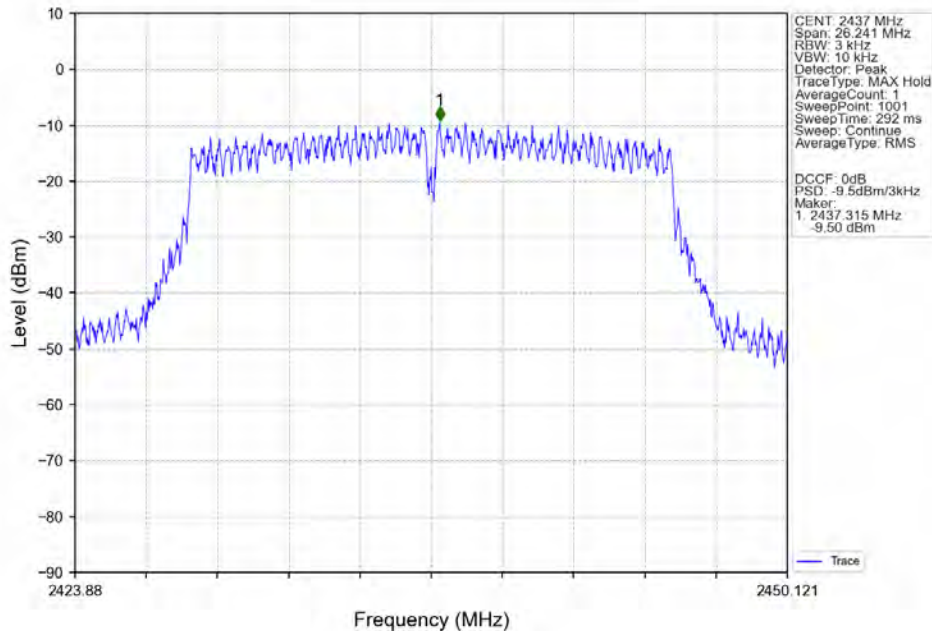


802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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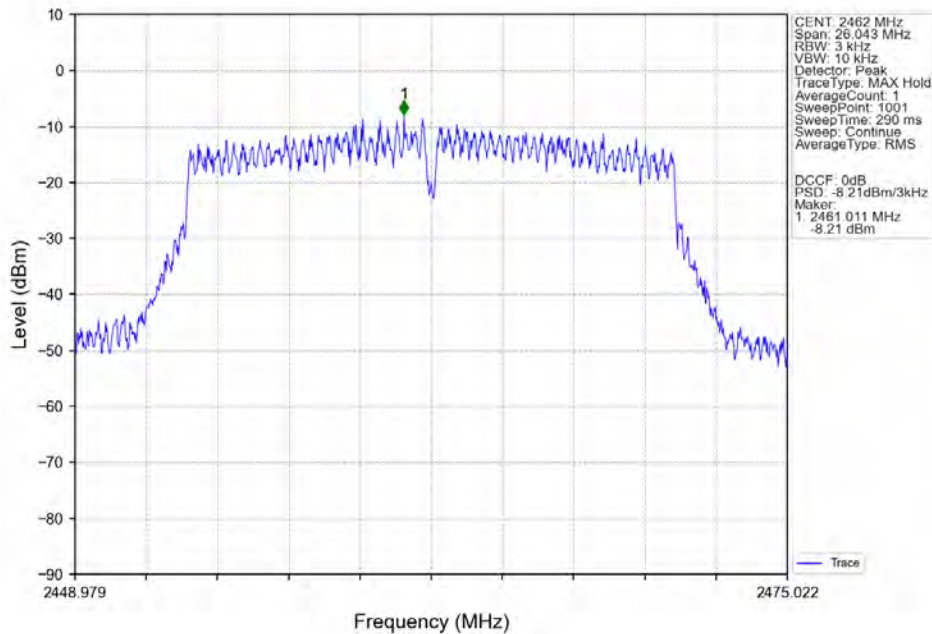


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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

Report No.: SUCR241200051805

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### 5. Unwanted Emissions In Non-restricted Frequency Bands

#### 5.1 Test Result

##### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	9.14
		2437	1	9.87
		2462	1	9.61
802.11g	SISO	2412	1	8.17
		2437	1	8.62
		2462	1	6.82
802.11n (HT20)	SISO	2412	1	5.12
		2437	1	5.67
		2462	1	5.54

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

##### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	9.87	-10.13	Pass
		2437	1	9.87	-10.13	Pass
		2462	1	9.87	-10.13	Pass
802.11g	SISO	2412	1	8.62	-11.38	Pass
		2437	1	8.62	-11.38	Pass
		2462	1	8.62	-11.38	Pass
802.11n (HT20)	SISO	2412	1	5.67	-14.33	Pass
		2437	1	5.67	-14.33	Pass
		2462	1	5.67	-14.33	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

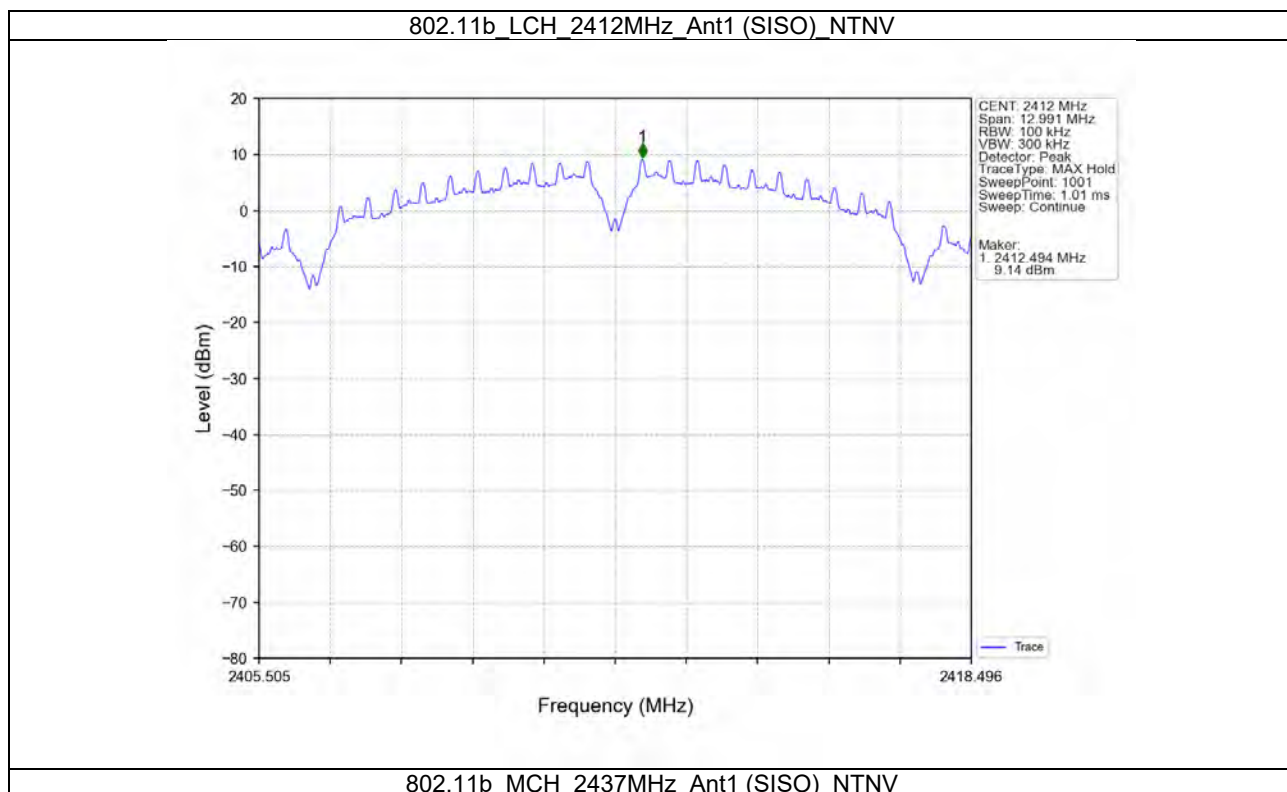
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### 5.2 Test Graph

#### 5.2.1 Ref



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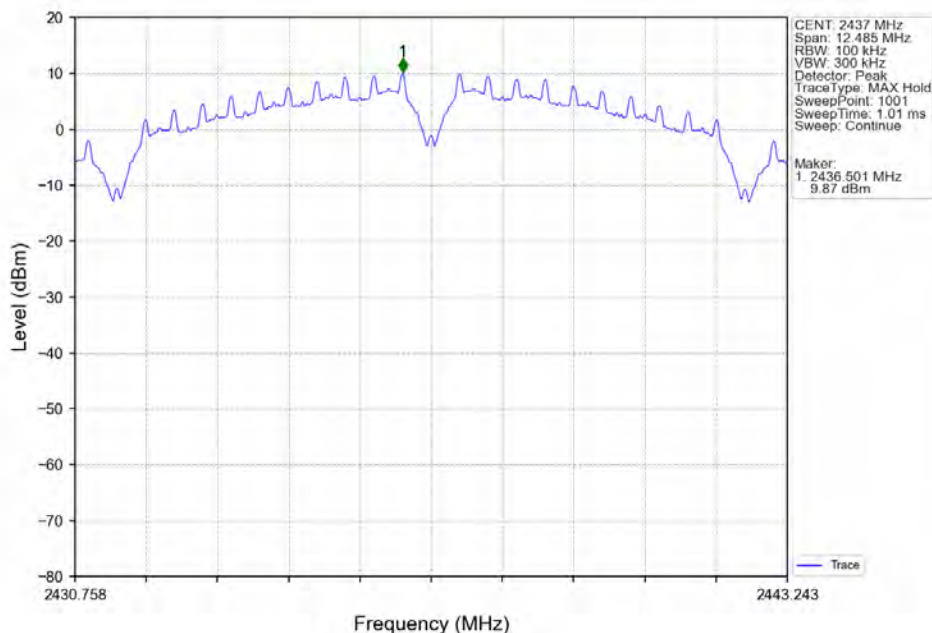
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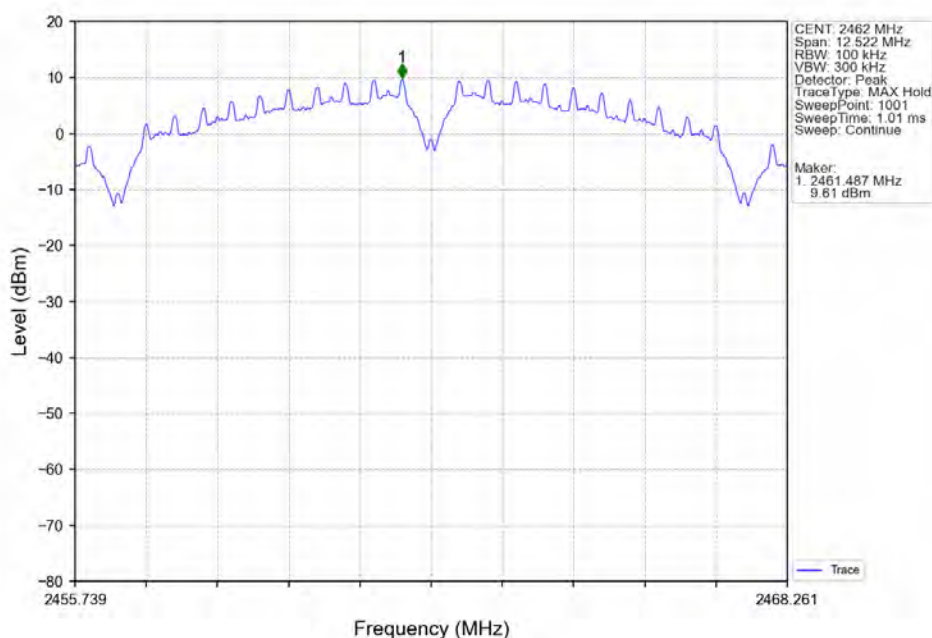


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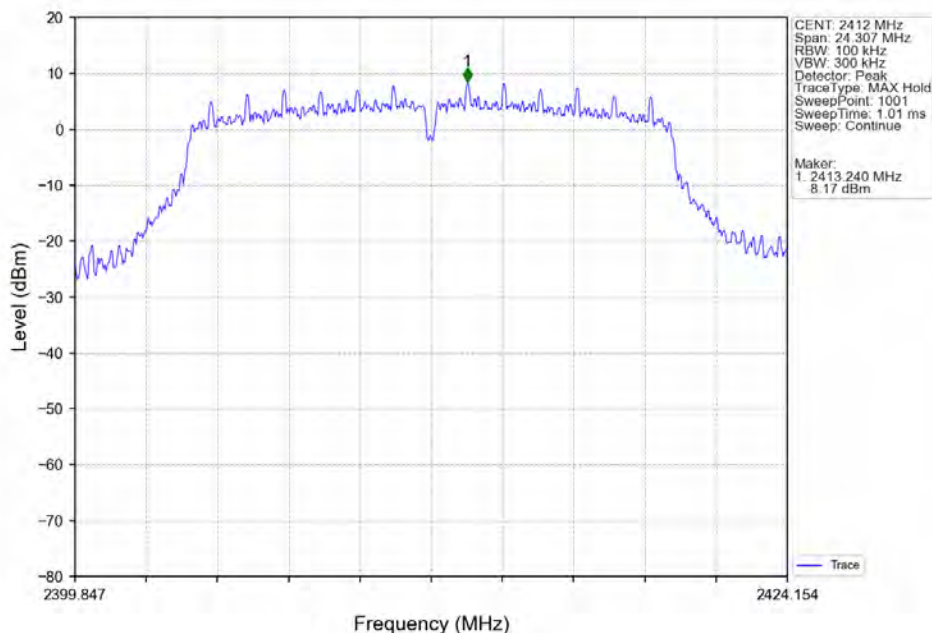


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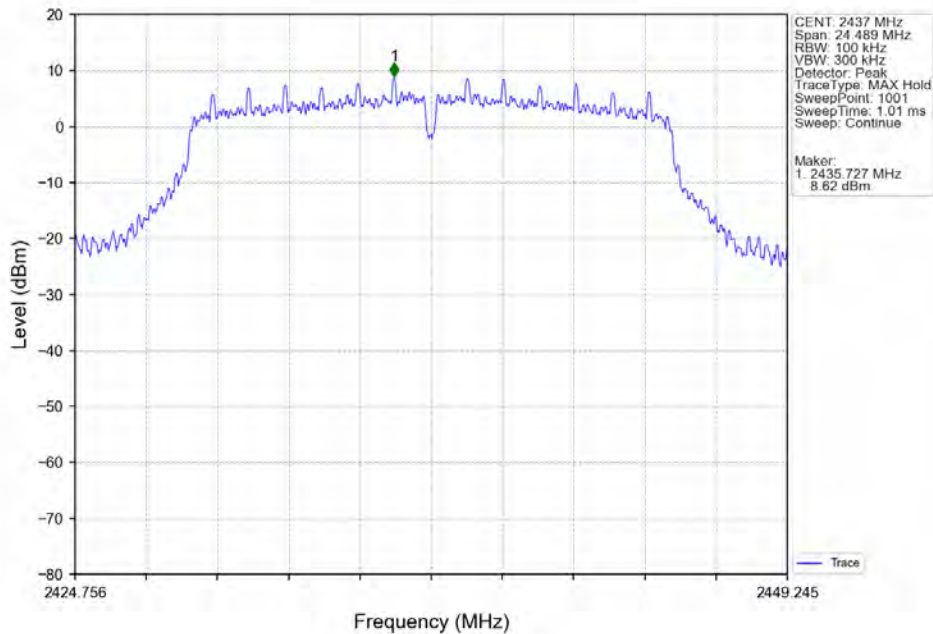


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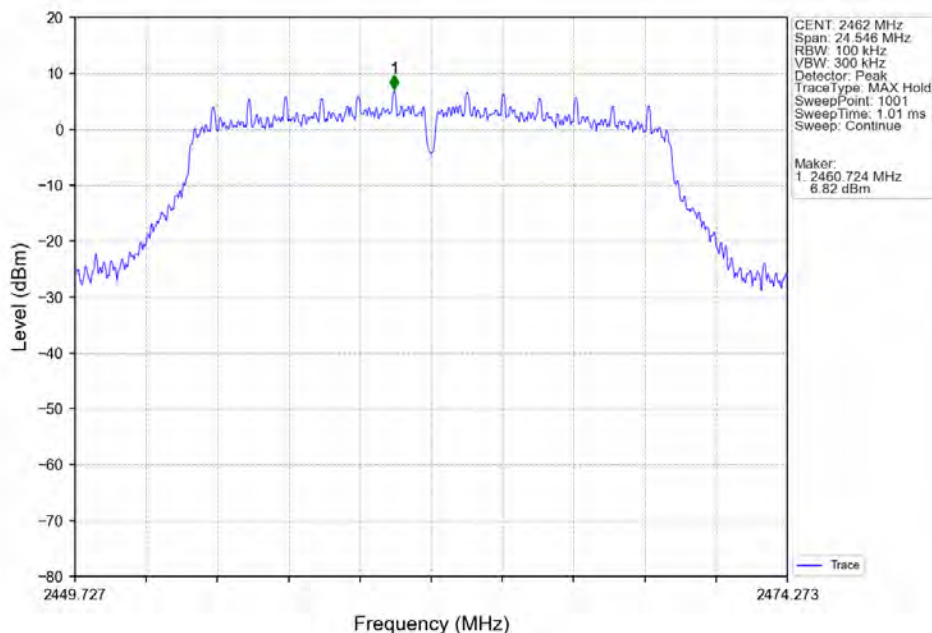
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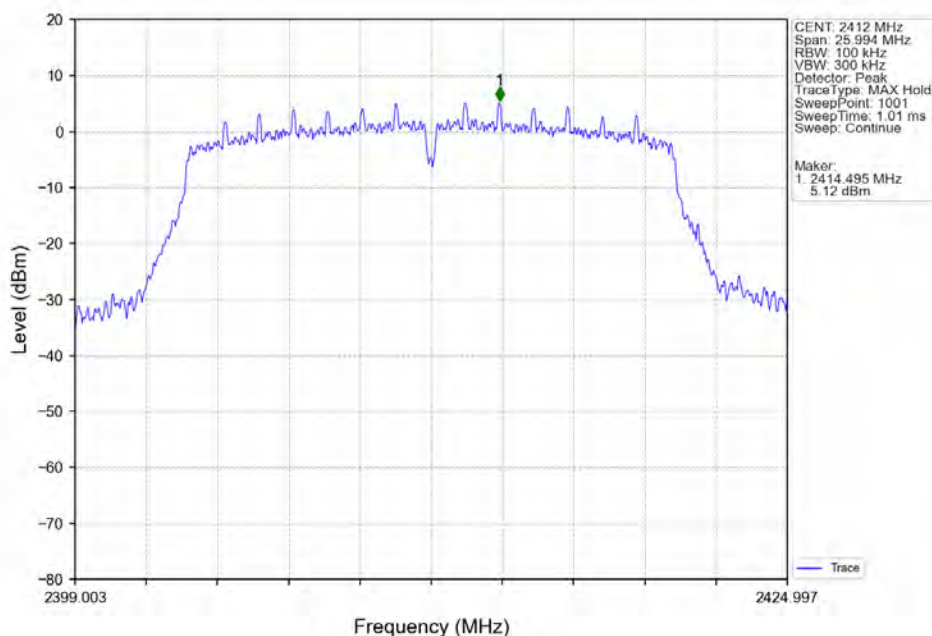


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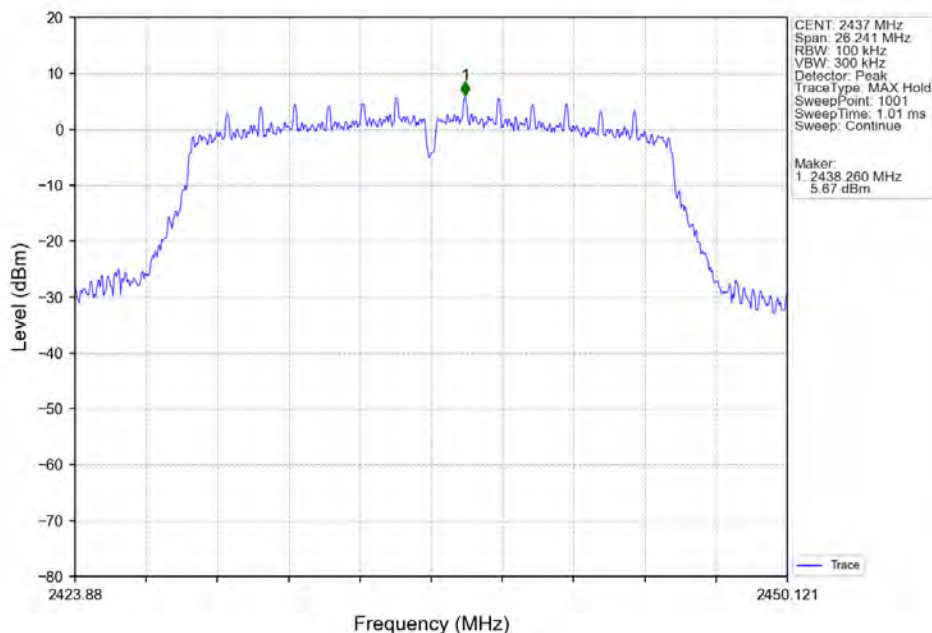
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Rev.: 01

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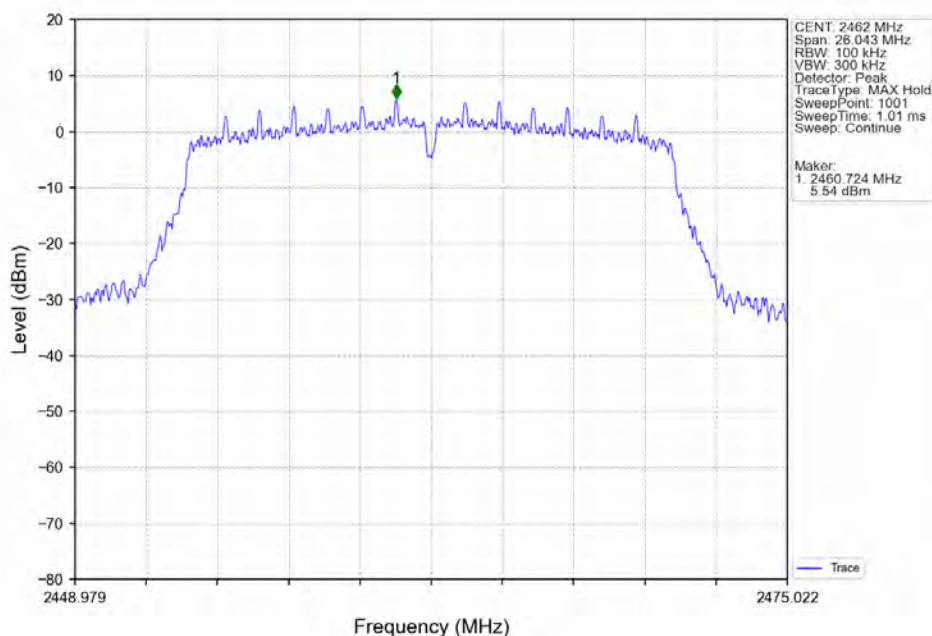


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

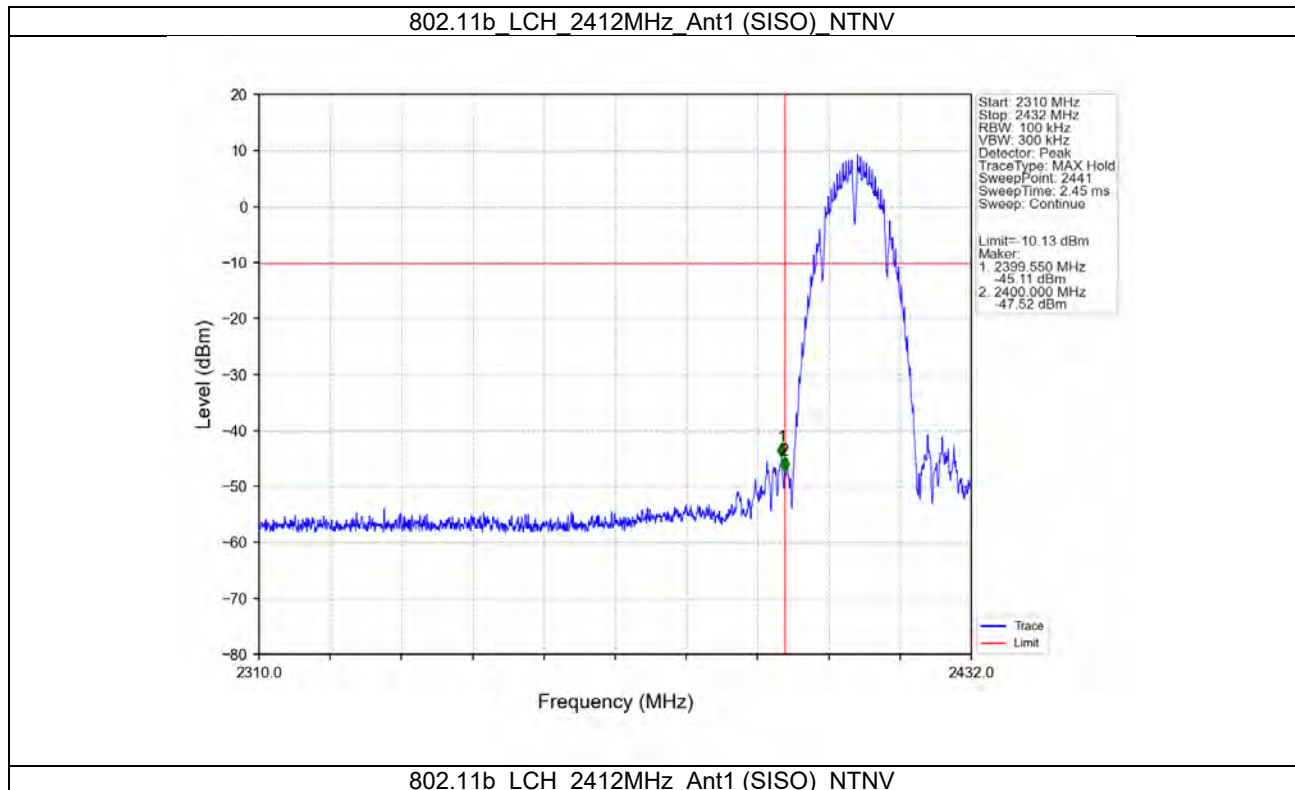


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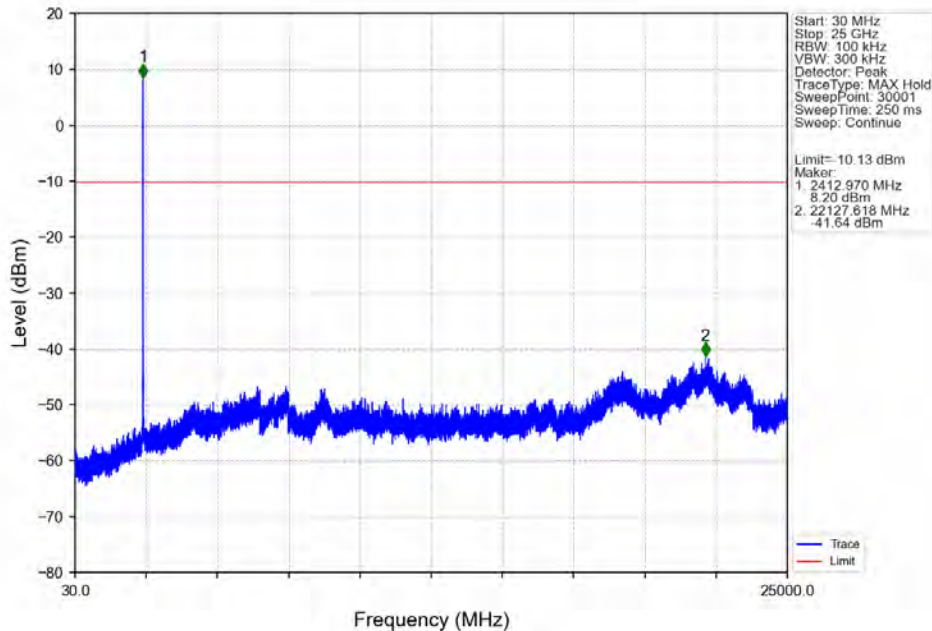
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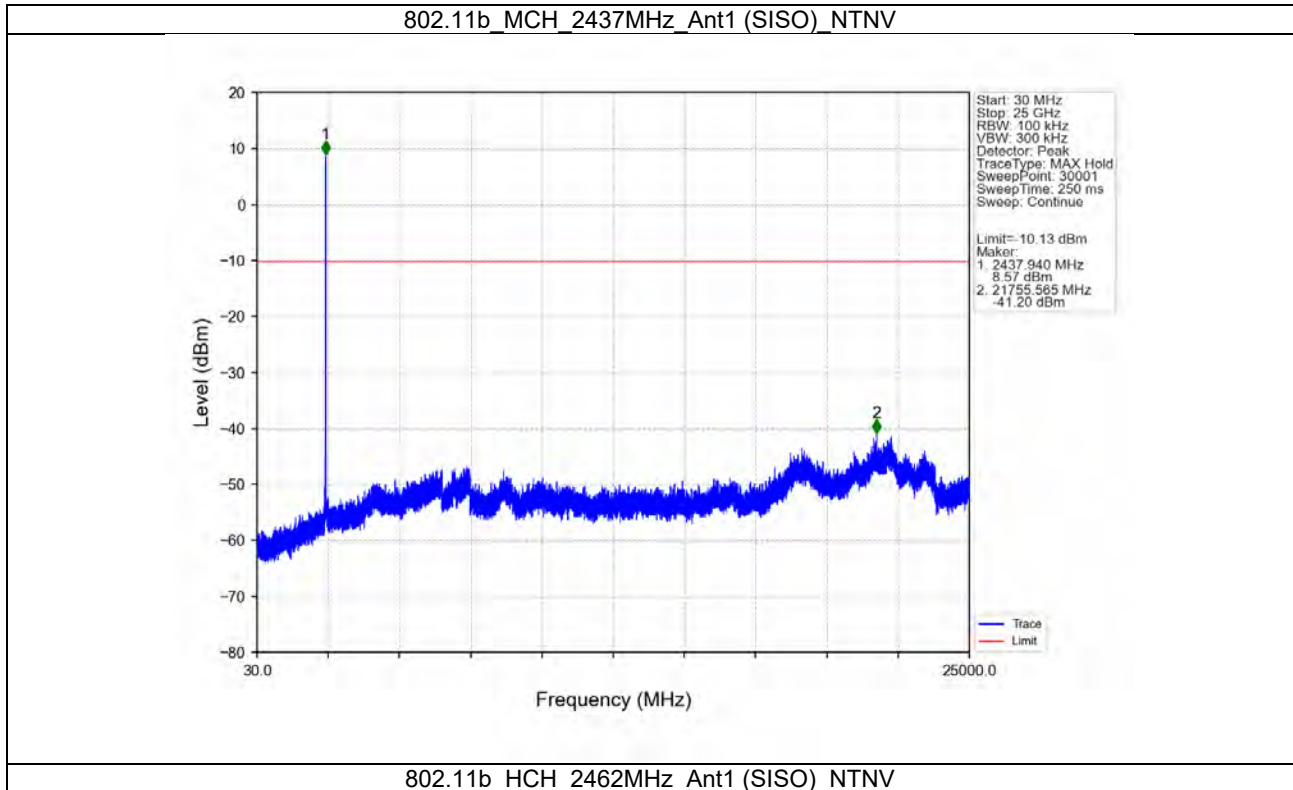
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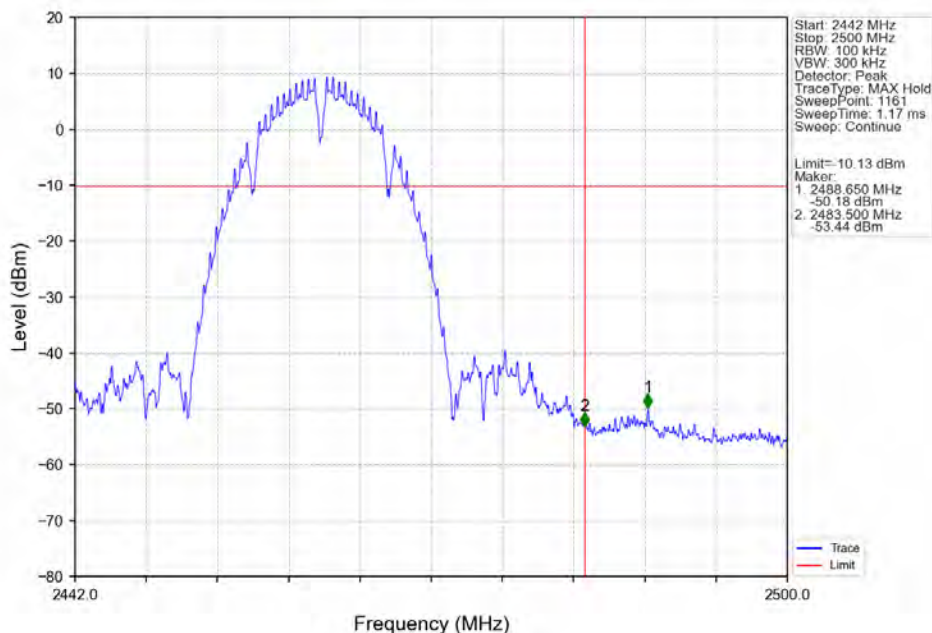


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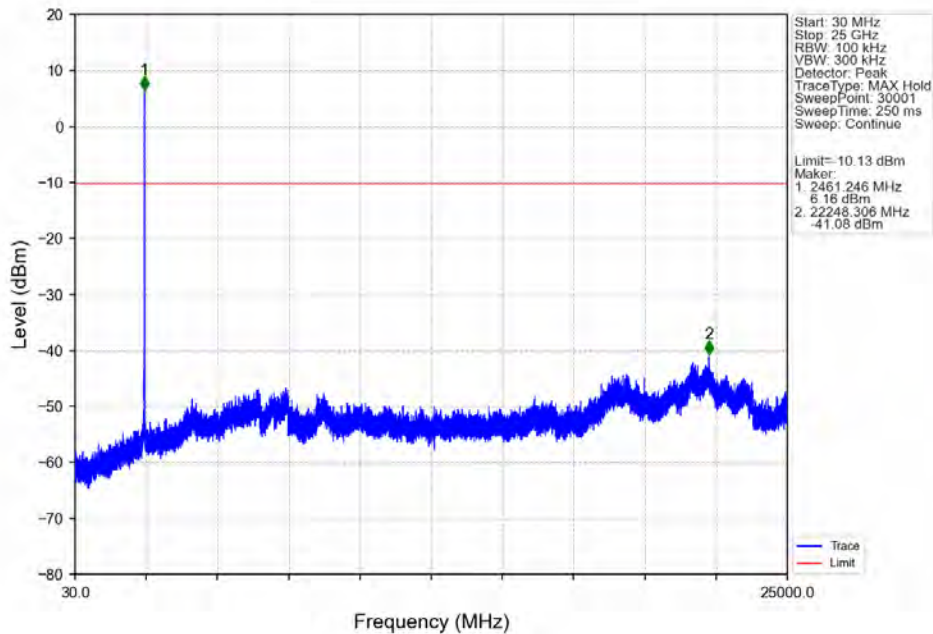


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

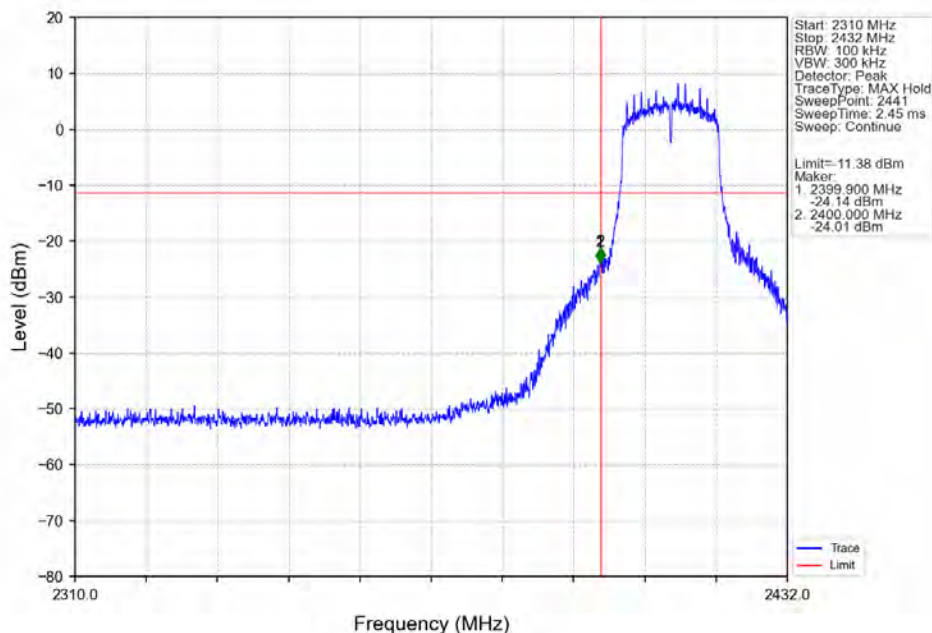


802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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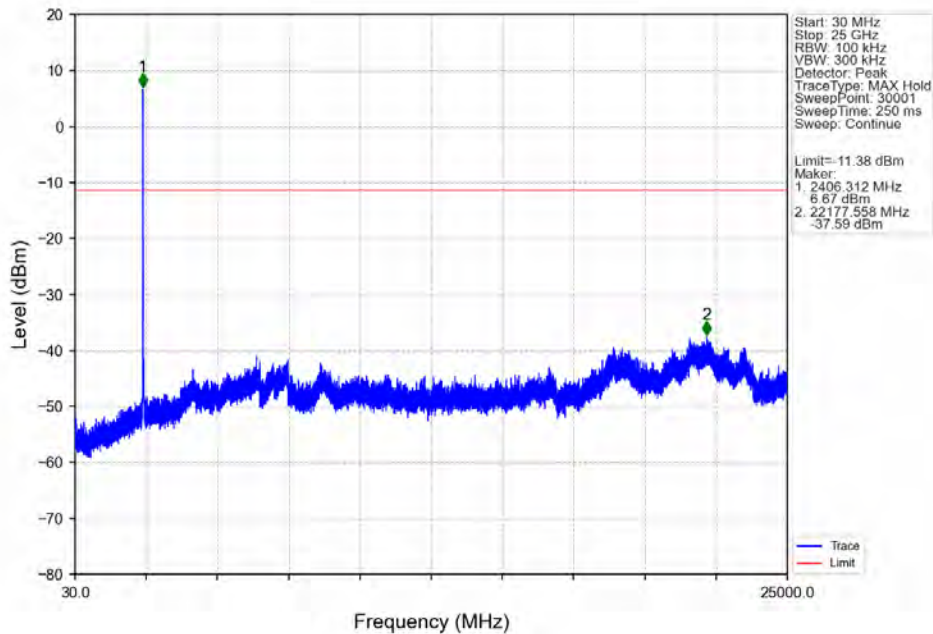


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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

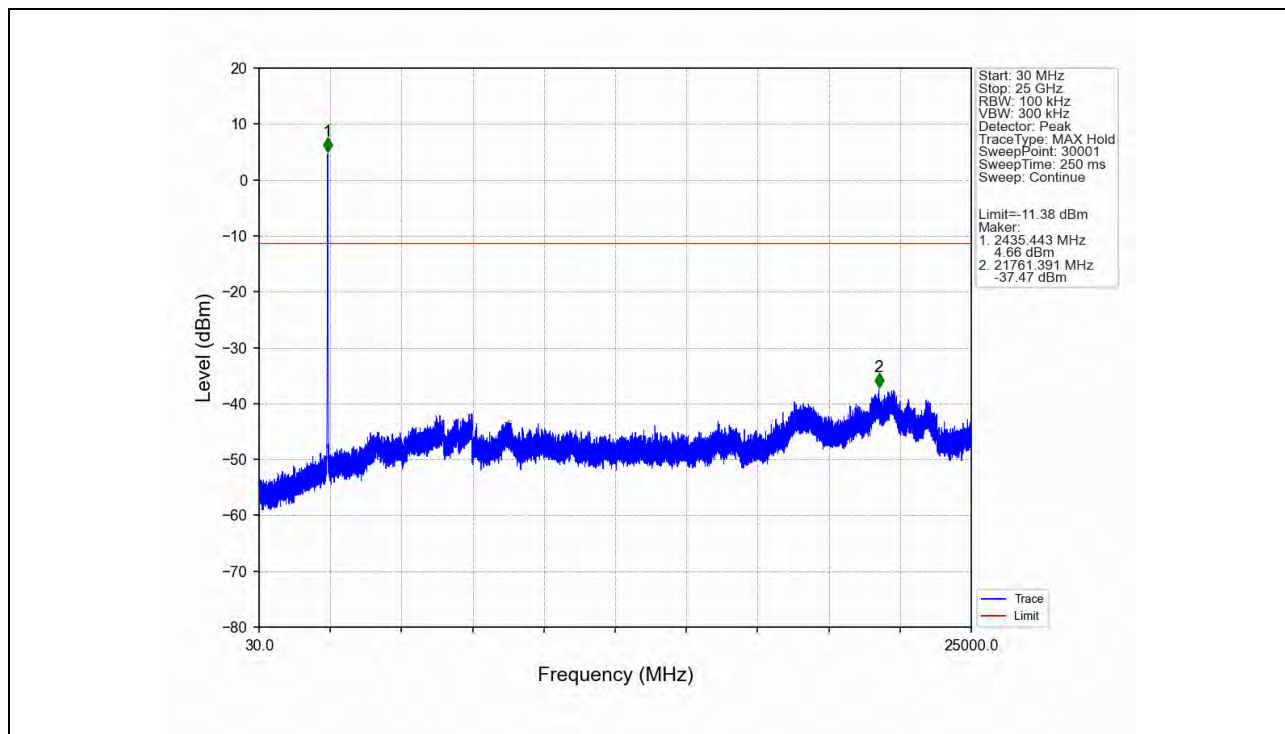


802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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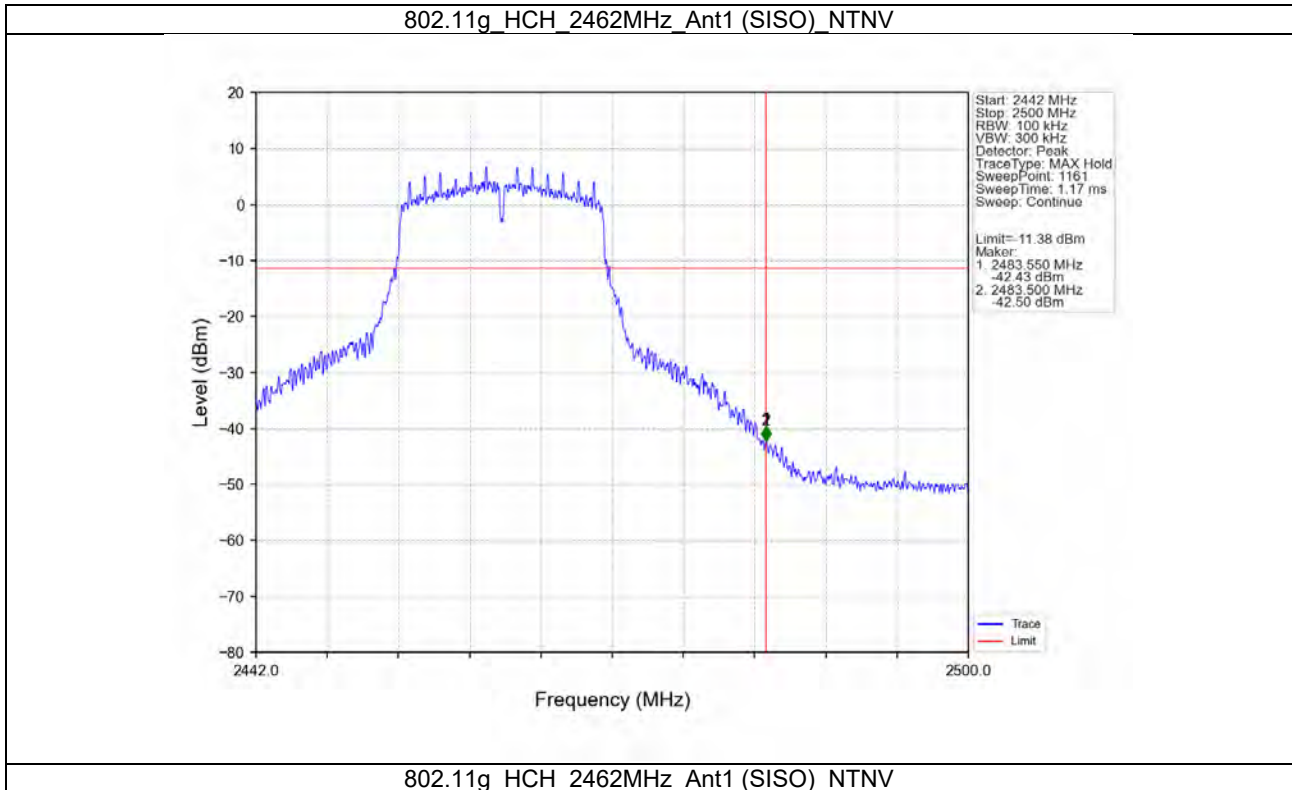
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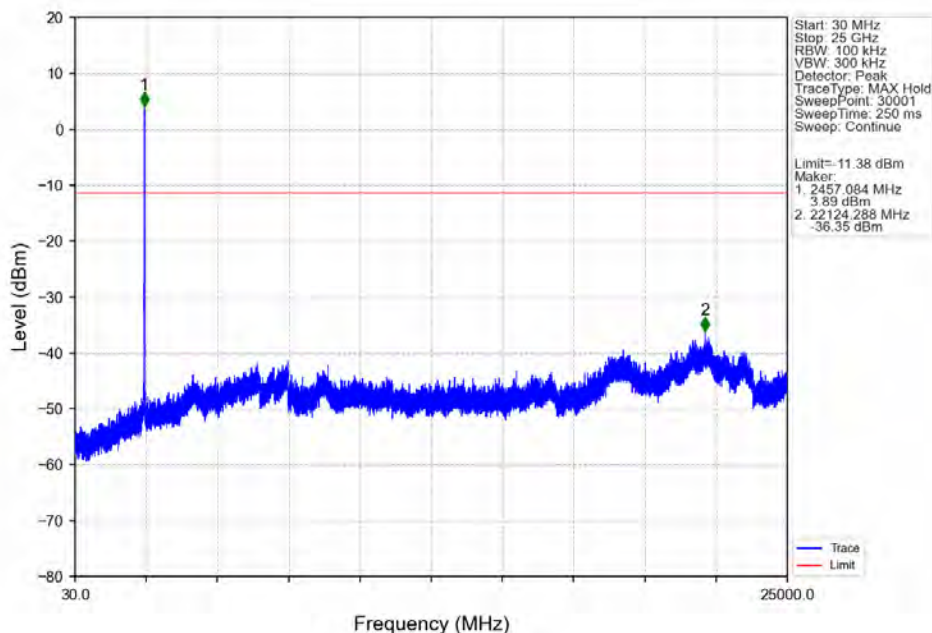


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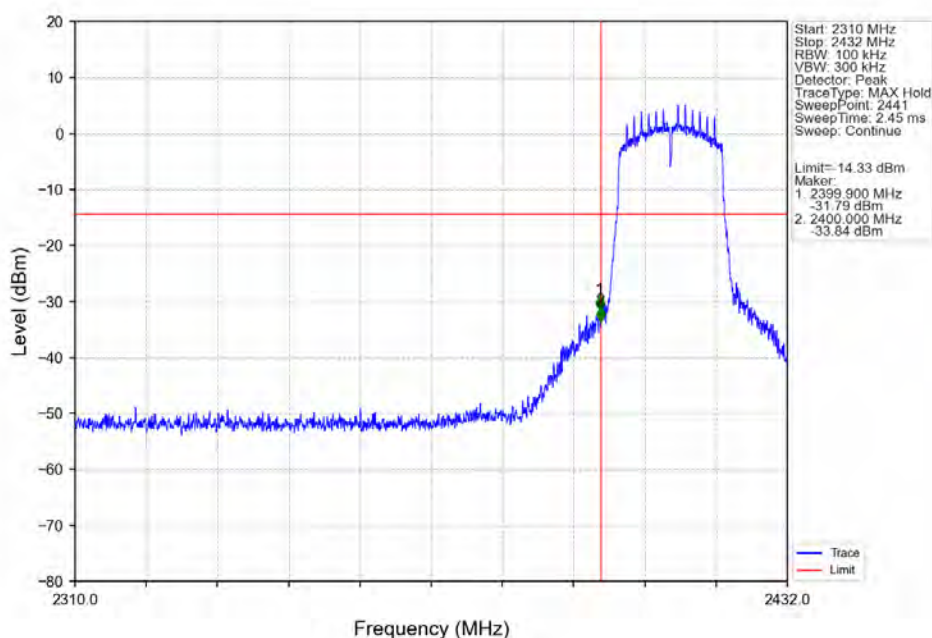
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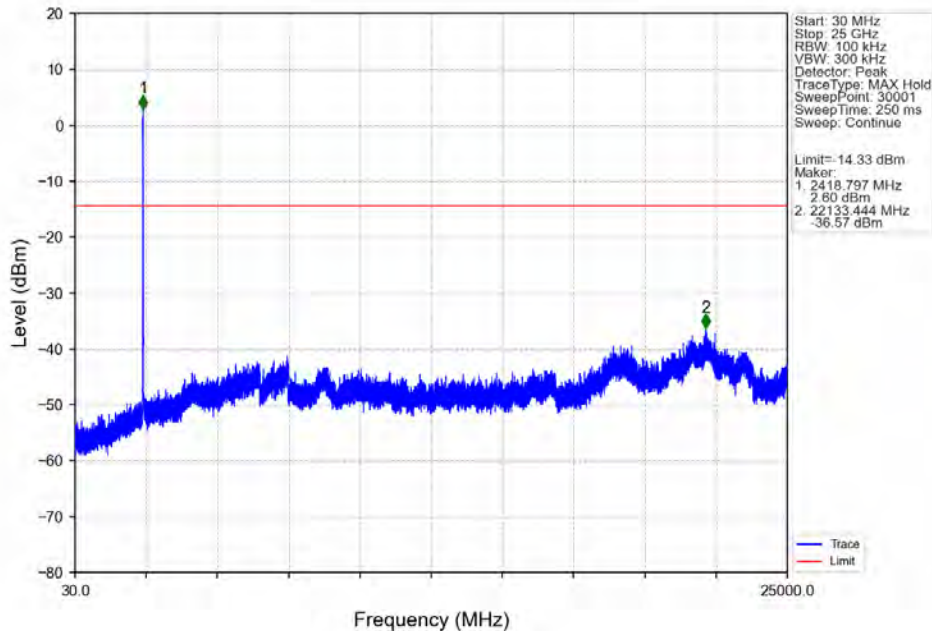


802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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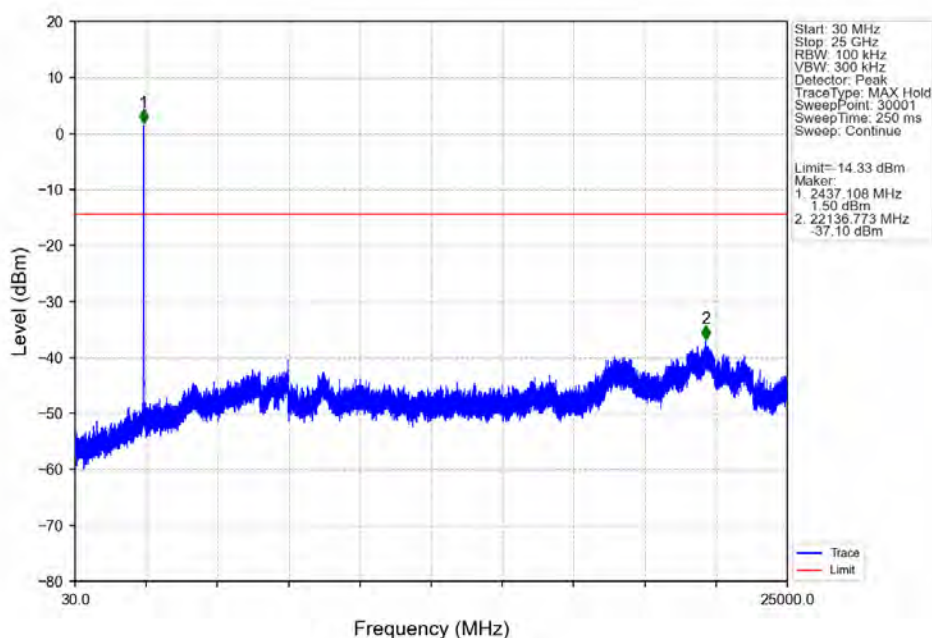


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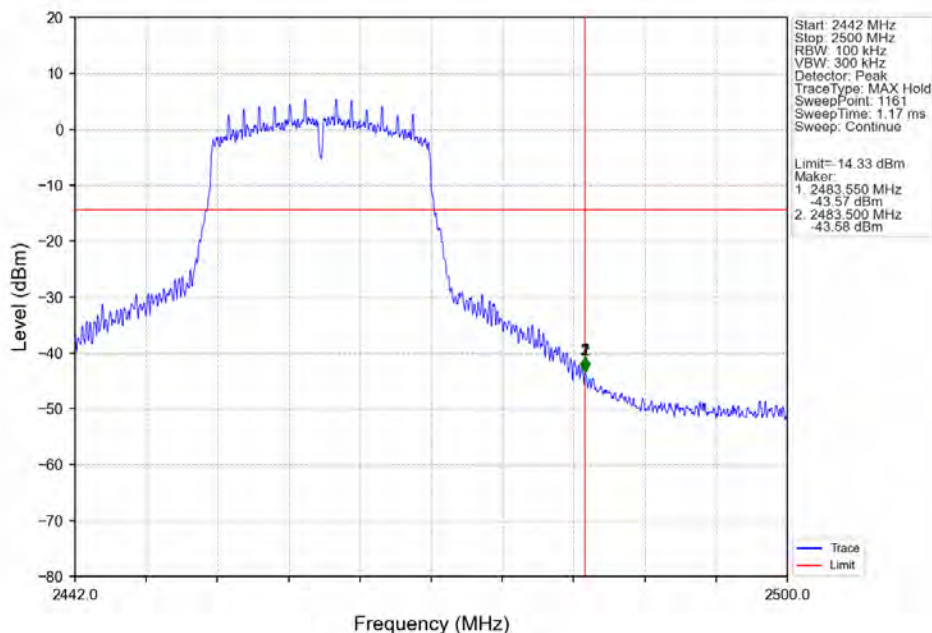


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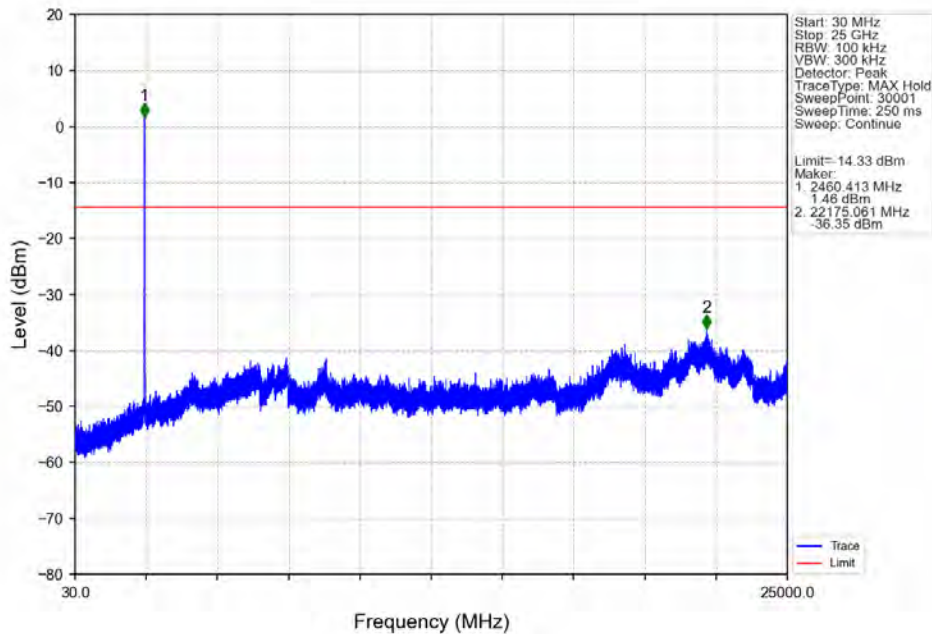


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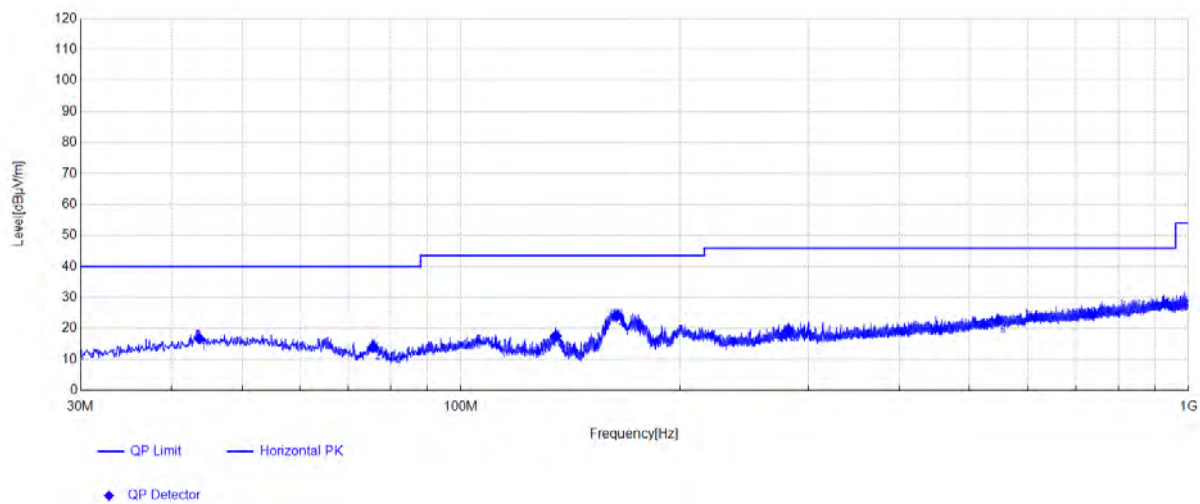
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### Radiated Spurious Emissions

### Radiated emission below 1GHz

### Worst case Mode: 802.11b\_Channel 11



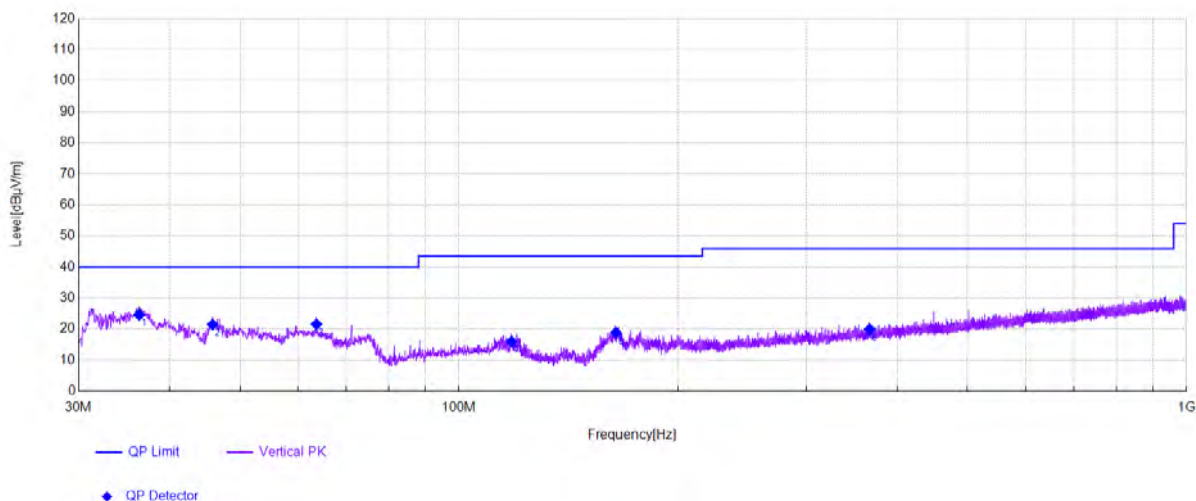
Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	43.7007	13.77	-27.92	30.88	16.73	40.00	23.27	Horizontal
2	75.7024	7.25	-27.46	34.07	13.86	40.00	26.14	Horizontal
3	135.0054	7.40	-26.88	37.12	17.64	43.50	25.86	Horizontal
4	163.7569	8.55	-27.03	42.67	24.19	43.50	19.31	Horizontal
5	281.863	12.97	-25.91	32.49	19.55	46.00	26.45	Horizontal
6	547.6267	17.95	-24.44	28.92	22.43	46.00	23.57	Horizontal

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### Data List

NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	36.3503	11.91	-28.19	40.89	24.61	40.00	15.39	Vertical
2	45.8508	14.07	-27.85	35.27	21.49	40.00	18.51	Vertical
3	63.7017	12.04	-27.53	37.07	21.58	40.00	18.42	Vertical
4	118.1045	10.06	-27.10	33.08	16.04	43.50	27.46	Vertical
5	164.3069	8.56	-27.03	37.34	18.87	43.50	24.63	Vertical
6	366.6174	14.60	-25.28	30.61	19.93	46.00	26.07	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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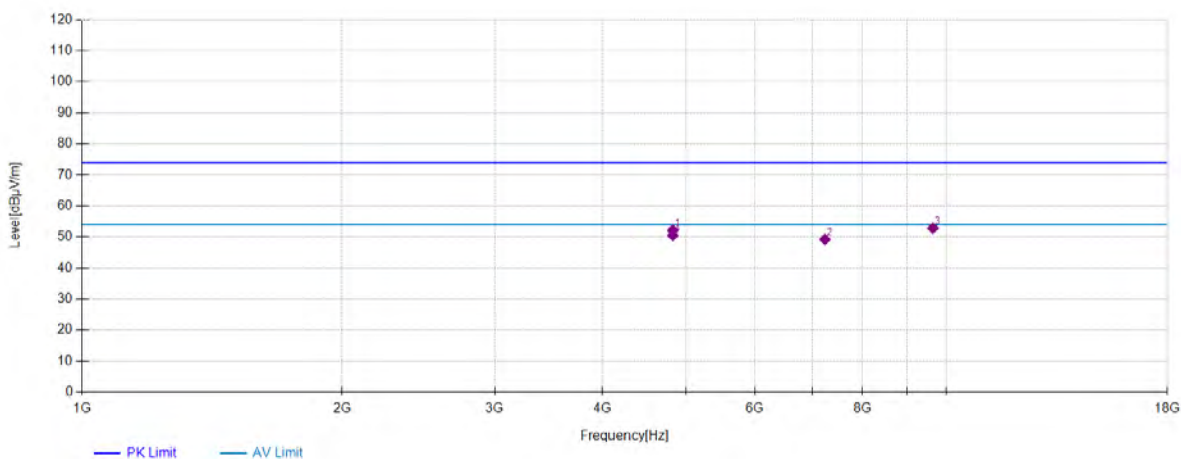
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### Transmitter emission Above 1GHz

#### 802.11b\_Channel 1



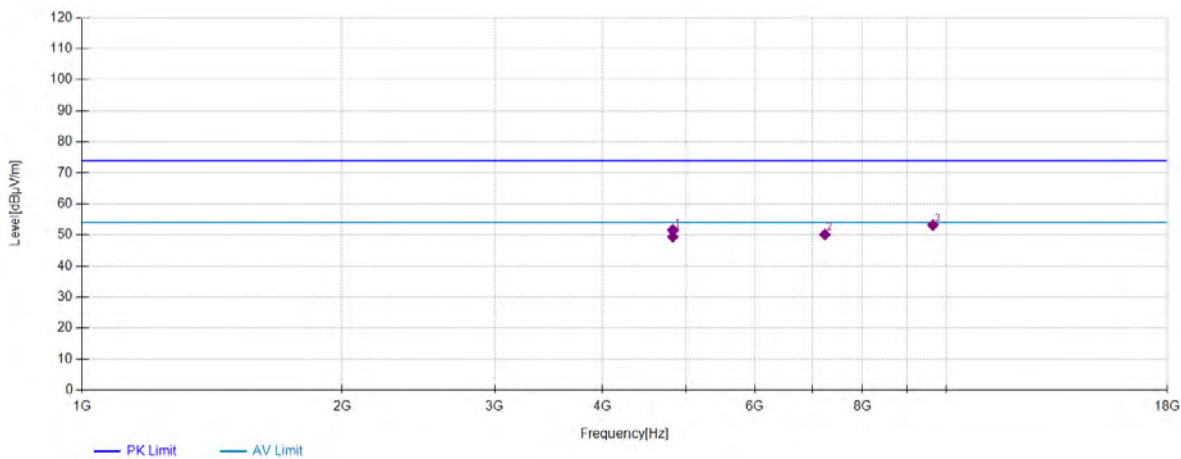
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	64.13	30.70	-42.66	52.17	74.00	21.83	Horizontal
2	7236	51.30	36.38	-38.44	49.24	74.00	24.76	Horizontal
3	9648	49.48	38.09	-34.71	52.86	74.00	21.14	Horizontal
4	4824.5	62.49	30.70	-42.66	50.53	54.00	3.47	Horizontal

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### 802.11b\_Channel 1



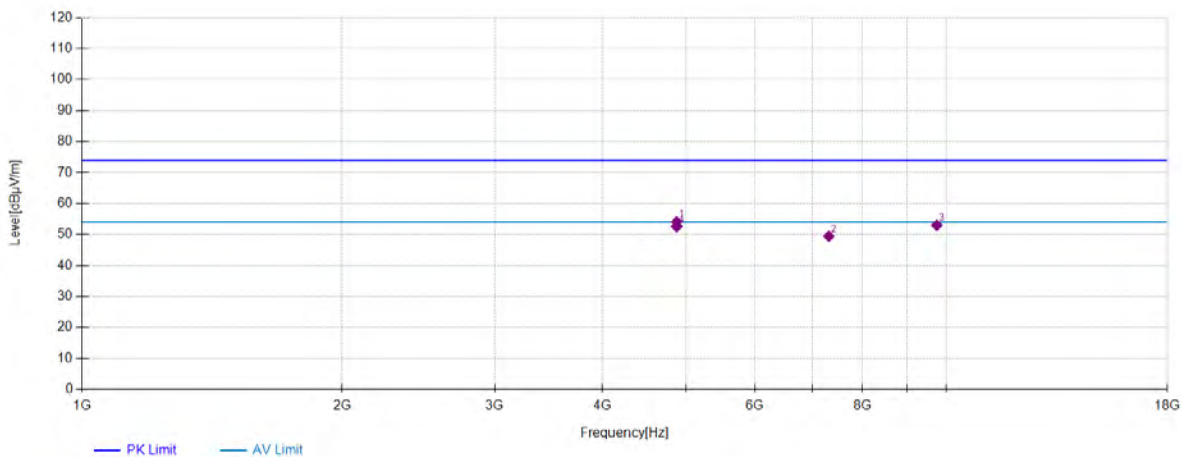
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	63.55	30.70	-42.66	51.59	74.00	22.41	Vertical
2	7236	52.19	36.38	-38.44	50.13	74.00	23.87	Vertical
3	9648	49.82	38.09	-34.71	53.20	74.00	20.80	Vertical
4	4824.5	61.39	30.70	-42.66	49.43	54.00	4.57	Vertical

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### 802.11b\_Channel 6



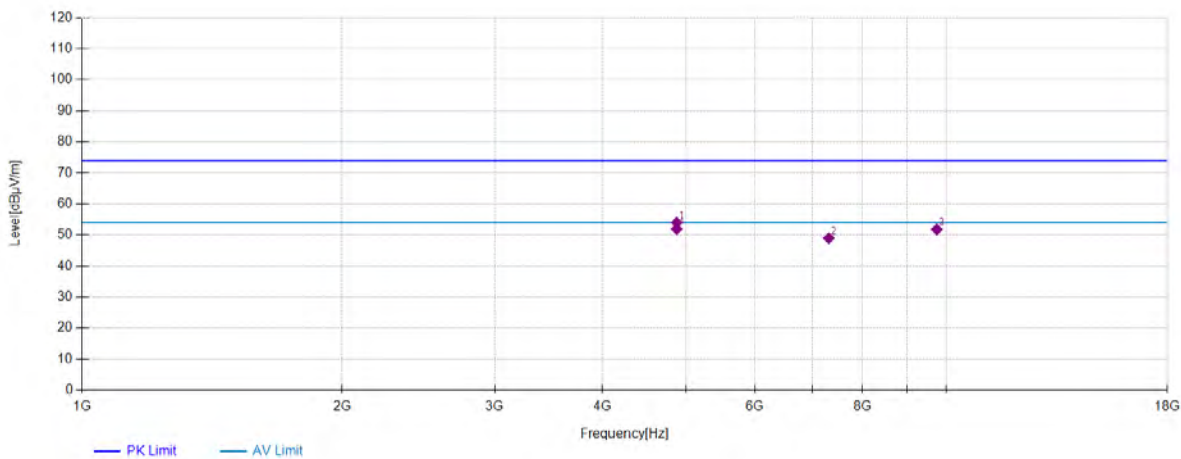
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	65.90	30.74	-42.55	54.09	74.00	19.91	Horizontal
2	7311	51.36	36.42	-38.34	49.44	74.00	24.56	Horizontal
3	9748	50.14	38.30	-35.42	53.02	74.00	20.98	Horizontal
4	4874.5	64.41	30.75	-42.55	52.61	54.00	1.39	Horizontal

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### 802.11b\_Channel 6



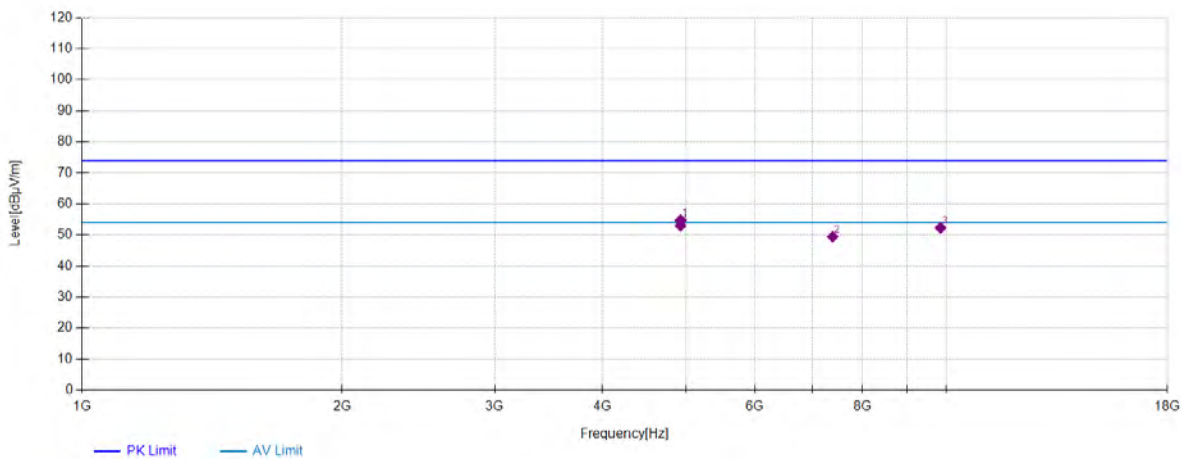
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	65.83	30.74	-42.55	54.02	74.00	19.98	Vertical
2	7311	50.92	36.42	-38.34	49.00	74.00	25.00	Vertical
3	9748	48.93	38.30	-35.42	51.81	74.00	22.19	Vertical
4	4874.5	63.76	30.75	-42.55	51.96	54.00	2.04	Vertical

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### 802.11b\_Channel 11



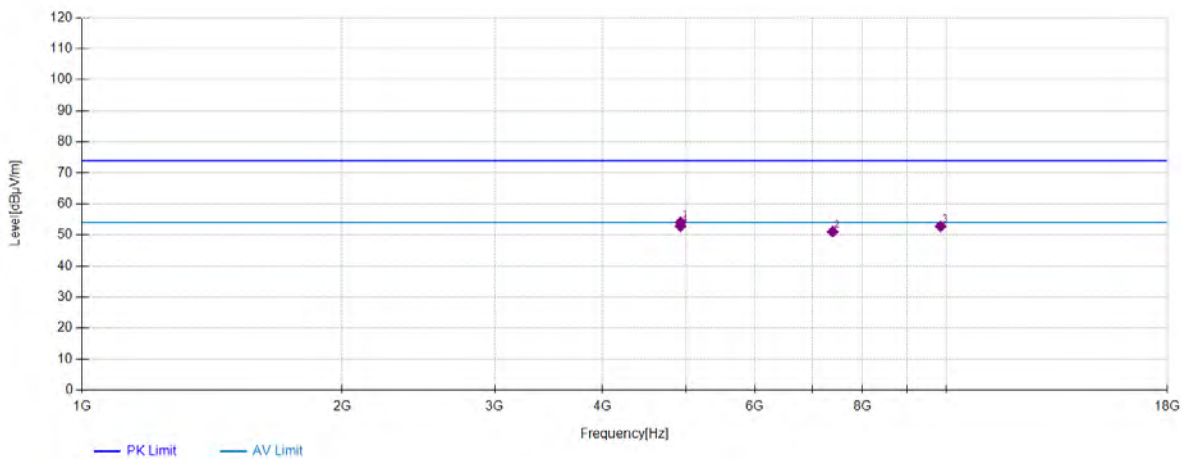
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	66.23	30.95	-42.42	54.76	74.00	19.24	Horizontal
2	7386	50.89	36.64	-38.07	49.46	74.00	24.54	Horizontal
3	9848	48.94	38.21	-34.84	52.31	74.00	21.69	Horizontal
4	4924.5	64.47	30.95	-42.42	53.00	54.00	1.00	Horizontal

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### 802.11b\_Channel 11



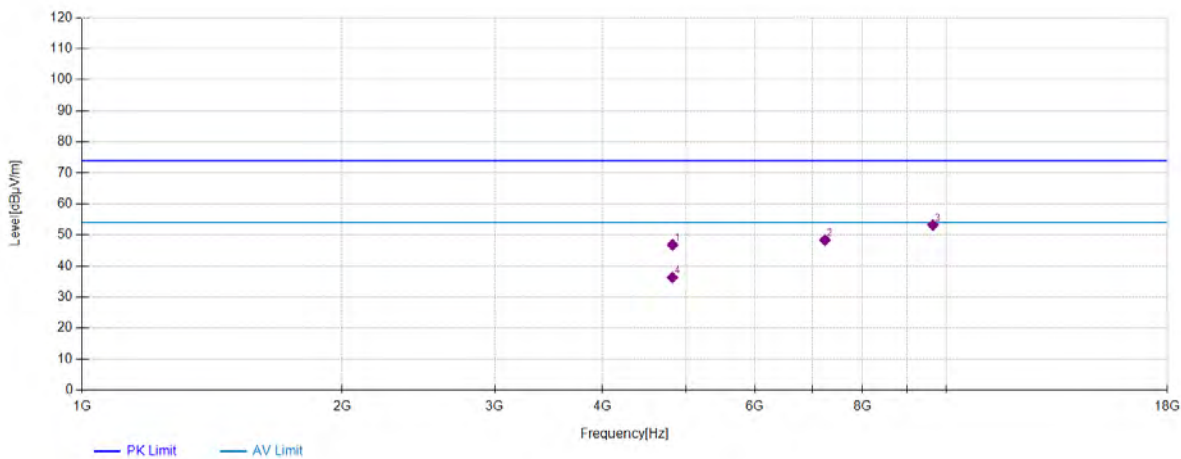
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	65.57	30.95	-42.42	54.10	74.00	19.90	Vertical
2	7386	52.50	36.64	-38.07	51.07	74.00	22.93	Vertical
3	9848	49.46	38.21	-34.84	52.83	74.00	21.17	Vertical
4	4924.5	64.35	30.95	-42.42	52.88	54.00	1.12	Vertical

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### 802.11g\_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4821.5	58.79	30.71	-42.66	46.84	74.00	27.16	Horizontal
2	7236	50.43	36.38	-38.44	48.37	74.00	25.63	Horizontal
3	9648	49.84	38.09	-34.71	53.22	74.00	20.78	Horizontal
4	4819.5	48.25	30.72	-42.66	36.31	54.00	17.69	Horizontal

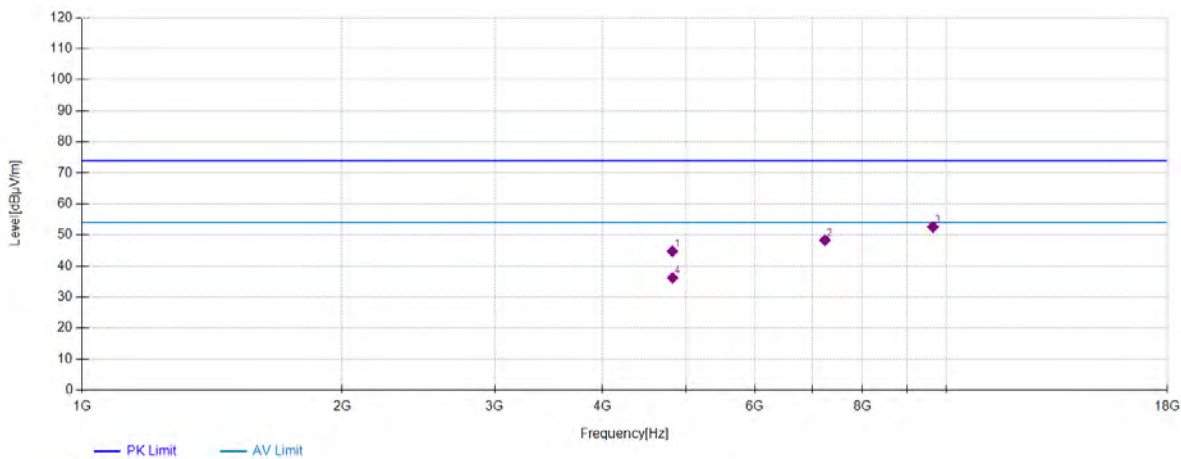
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### 802.11g\_Channel 1



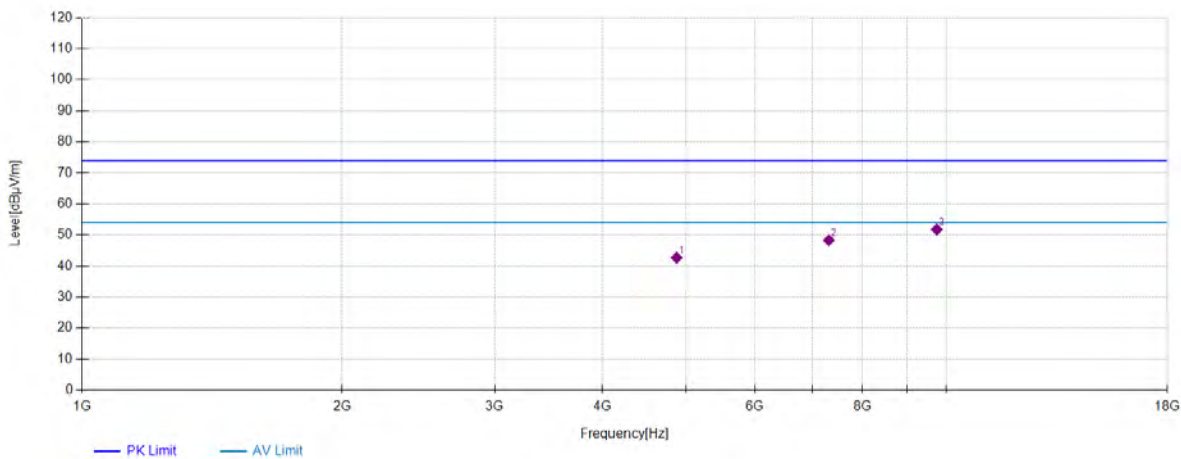
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4818.5	56.69	30.73	-42.65	44.77	74.00	29.23	Vertical
2	7236	50.39	36.38	-38.44	48.33	74.00	25.67	Vertical
3	9648	49.24	38.09	-34.71	52.62	74.00	21.38	Vertical
4	4821.5	48.15	30.71	-42.66	36.20	54.00	17.80	Vertical

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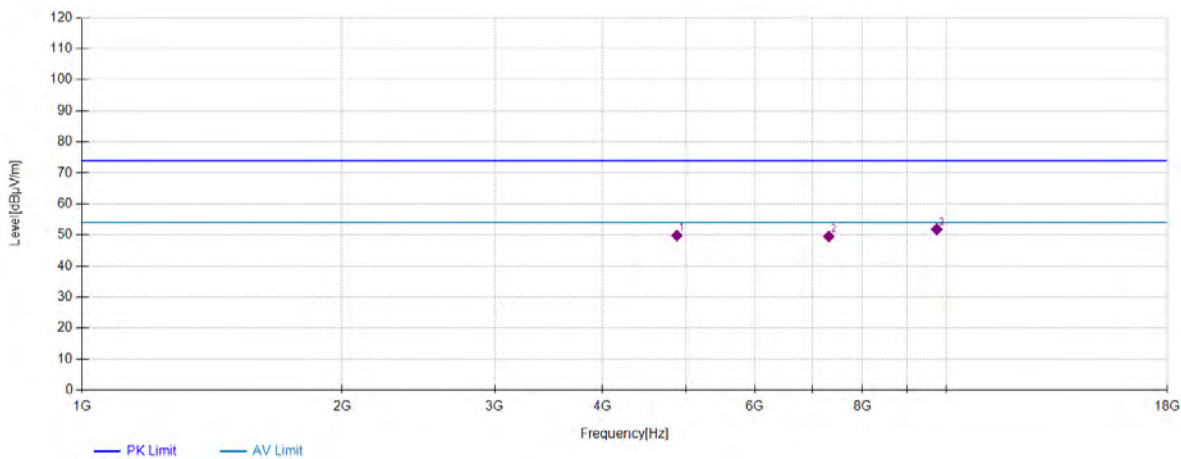
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	54.49	30.74	-42.55	42.68	74.00	31.32	Horizontal
2	7311	50.24	36.42	-38.34	48.32	74.00	25.68	Horizontal
3	9748	48.91	38.30	-35.42	51.79	74.00	22.21	Horizontal

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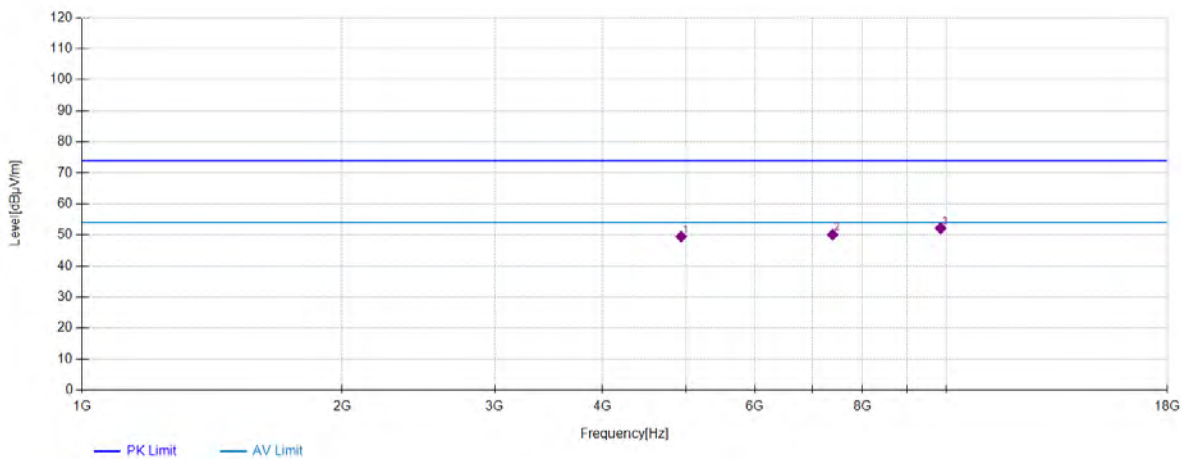
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4877	61.60	30.76	-42.53	49.83	74.00	24.17	Vertical
2	7311	51.46	36.42	-38.34	49.54	74.00	24.46	Vertical
3	9748	48.97	38.30	-35.42	51.85	74.00	22.15	Vertical

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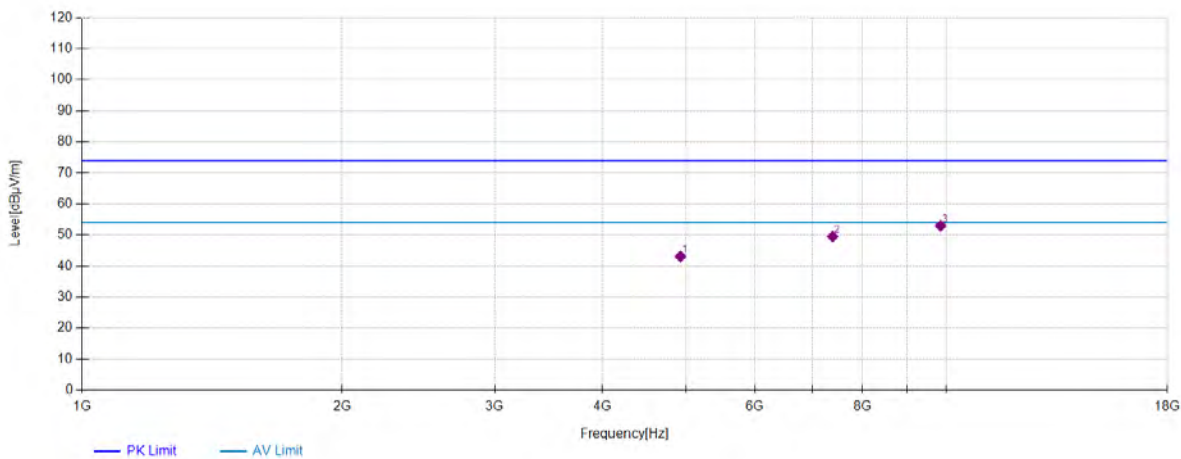
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4932.5	60.96	30.97	-42.43	49.50	74.00	24.50	Horizontal
2	7386	51.53	36.64	-38.07	50.10	74.00	23.90	Horizontal
3	9848	48.82	38.21	-34.84	52.19	74.00	21.81	Horizontal

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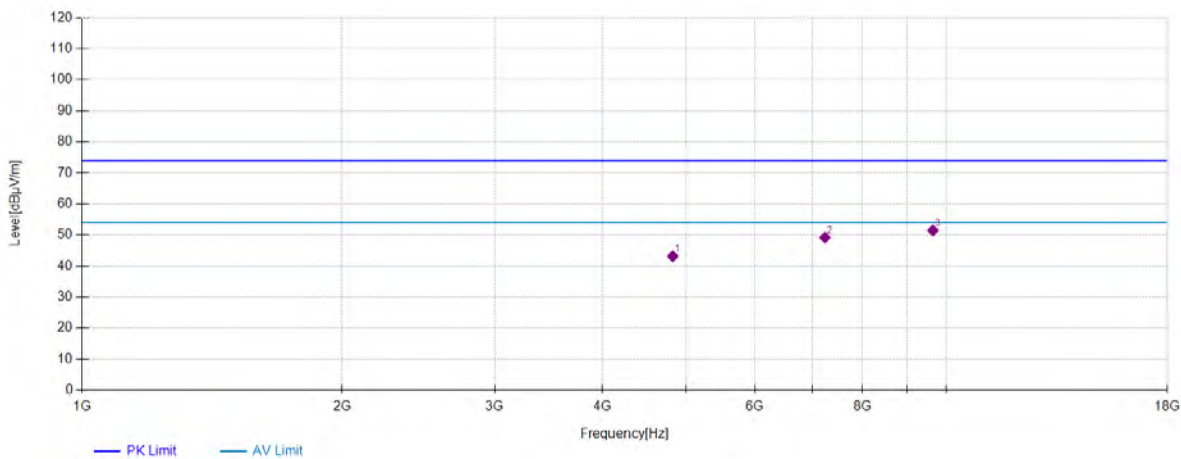
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924	54.55	30.95	-42.42	43.08	74.00	30.92	Vertical
2	7386	50.94	36.64	-38.07	49.51	74.00	24.49	Vertical
3	9848	49.61	38.21	-34.84	52.98	74.00	21.02	Vertical

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### 802.11n20\_Channel 1



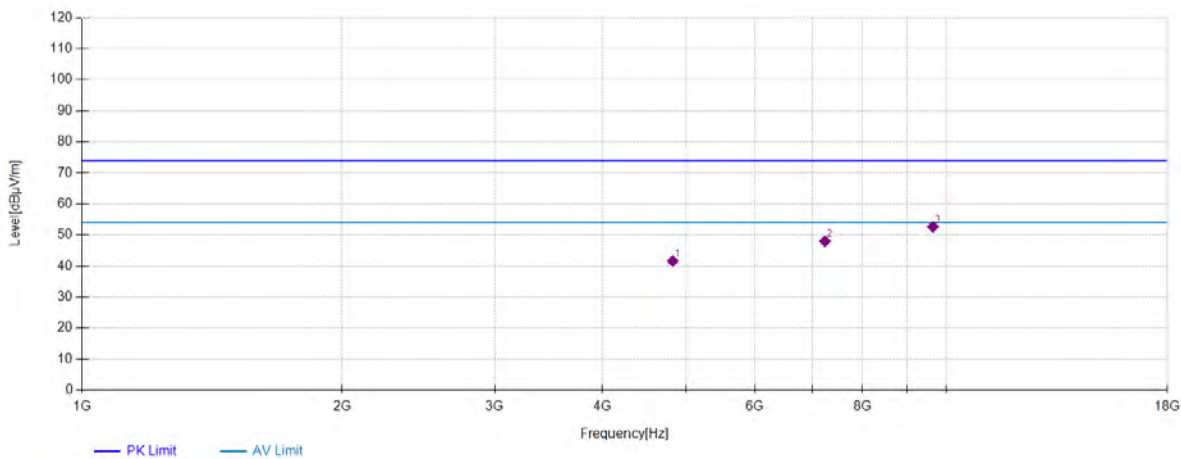
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	55.11	30.70	-42.66	43.15	74.00	30.85	Horizontal
2	7236	51.26	36.38	-38.44	49.20	74.00	24.80	Horizontal
3	9648	48.10	38.09	-34.71	51.48	74.00	22.52	Horizontal

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### 802.11n20\_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	53.57	30.70	-42.66	41.61	74.00	32.39	Vertical
2	7236	50.05	36.38	-38.44	47.99	74.00	26.01	Vertical
3	9648	49.29	38.09	-34.71	52.67	74.00	21.33	Vertical

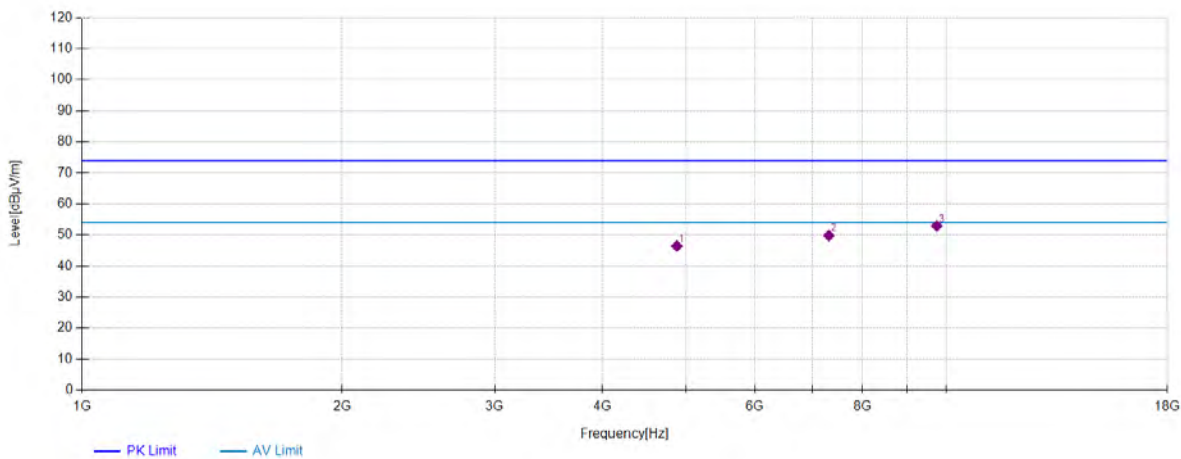
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### 802.11n20\_Channel 6



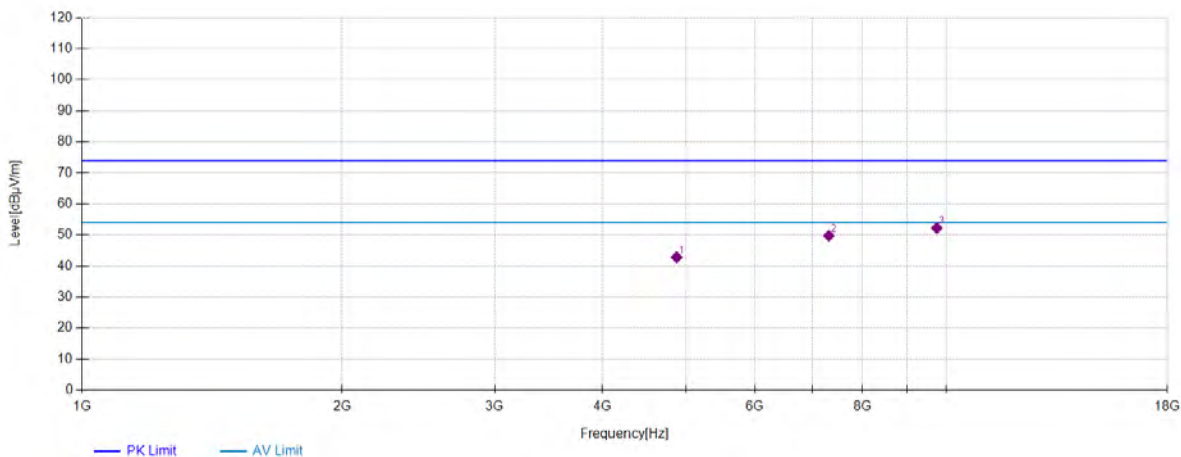
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4876.5	58.22	30.76	-42.54	46.44	74.00	27.56	Horizontal
2	7311	51.74	36.42	-38.34	49.82	74.00	24.18	Horizontal
3	9748	50.06	38.30	-35.42	52.94	74.00	21.06	Horizontal

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### 802.11n20\_Channel 6



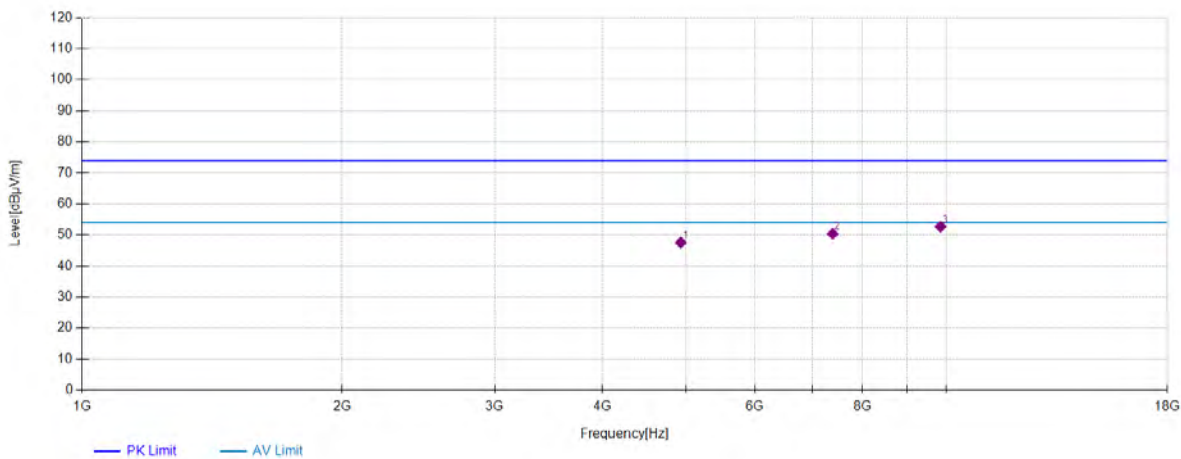
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	54.64	30.74	-42.55	42.83	74.00	31.17	Vertical
2	7311	51.69	36.42	-38.34	49.77	74.00	24.23	Vertical
3	9748	49.37	38.30	-35.42	52.25	74.00	21.75	Vertical

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### 802.11n20\_Channel 11



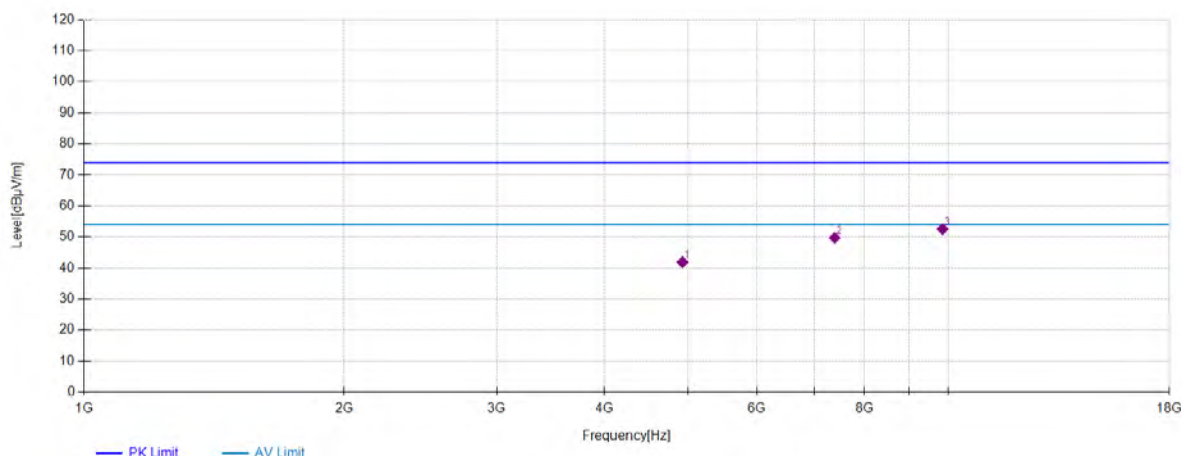
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4928.5	59.04	30.96	-42.43	47.57	74.00	26.43	Horizontal
2	7386	51.81	36.64	-38.07	50.38	74.00	23.62	Horizontal
3	9848	49.34	38.21	-34.84	52.71	74.00	21.29	Horizontal

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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]	Polarity
1	4924	53.37	30.95	-42.42	41.90	74.00	32.10	Vertical
2	7386	51.18	36.64	-38.07	49.75	74.00	24.25	Vertical
3	9848	49.20	38.21	-34.84	52.57	74.00	21.43	Vertical

#### Remark:

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

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

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

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

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

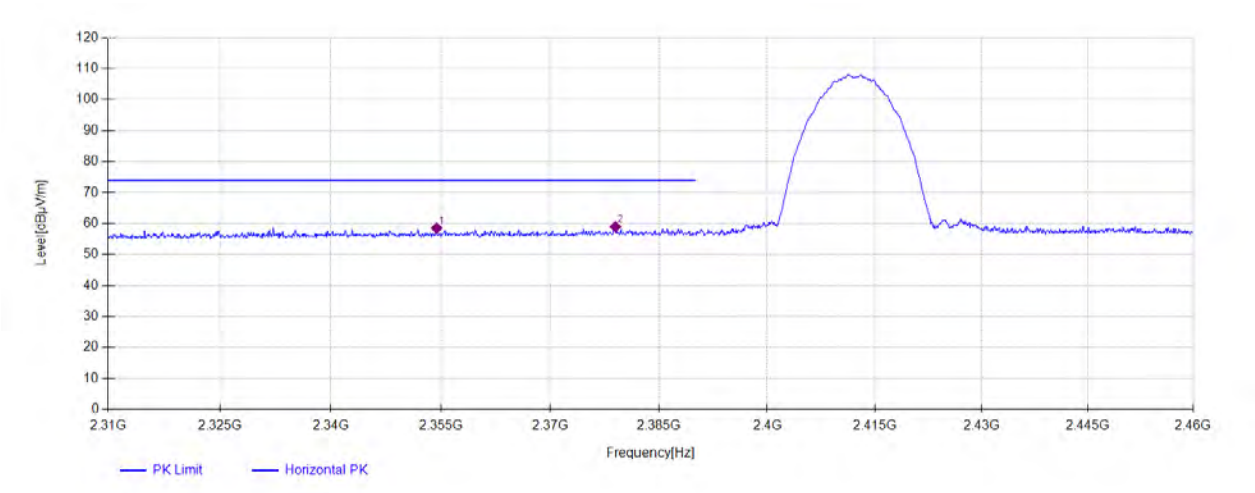
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### Restricted bands around fundamental frequency

#### 802.11b\_Channel 1



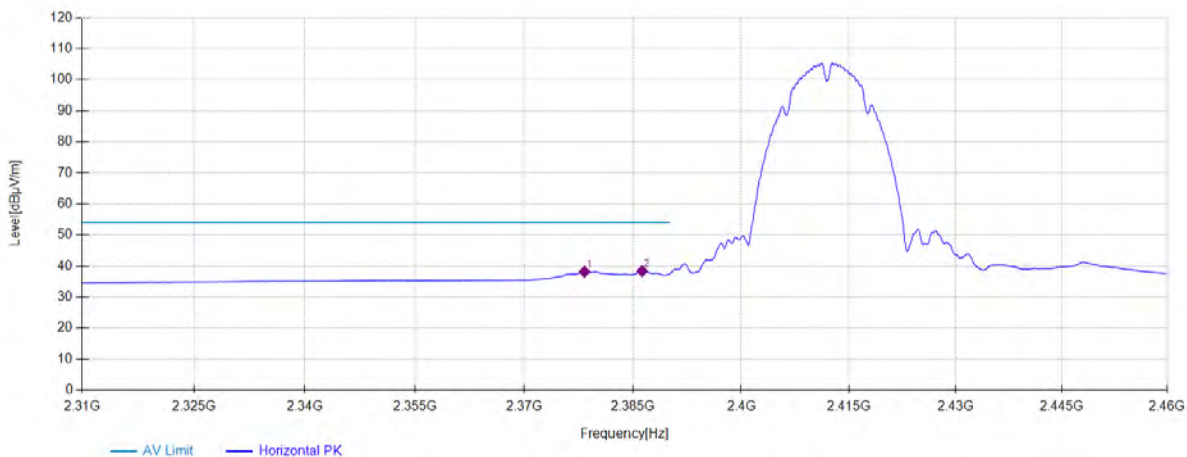
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2354.4222	48.30	27.58	-17.40	58.48	74.00	15.52	Horizontal
2	2378.9595	48.77	27.48	-17.30	58.95	74.00	15.05	Horizontal

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### 802.11b\_Channel 1



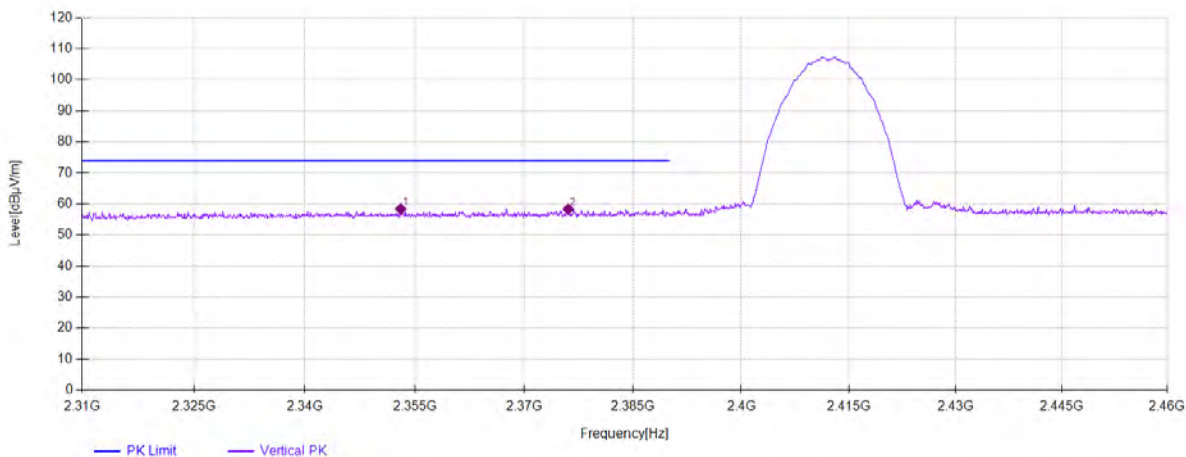
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.2841	28.00	27.49	-17.30	38.19	54.00	15.81	Horizontal
2	2386.2381	28.19	27.46	-17.27	38.38	54.00	15.62	Horizontal

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### 802.11b\_Channel 1



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2353.0715	48.17	27.59	-17.41	58.35	74.00	15.65	Vertical
2	2376.033	48.12	27.50	-17.31	58.31	74.00	15.69	Vertical

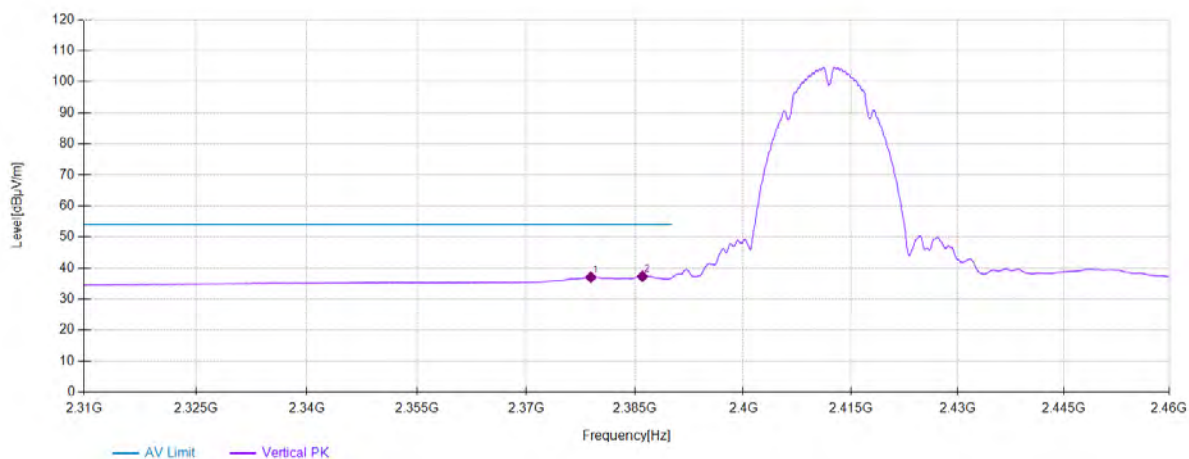
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### 802.11b\_Channel 1



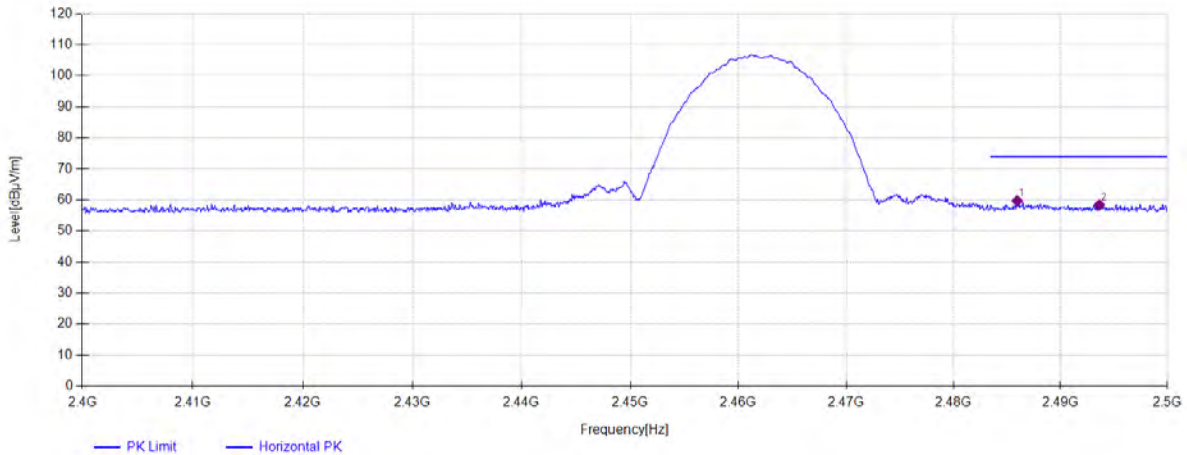
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.8844	26.85	27.48	-17.30	37.03	54.00	16.97	Vertical
2	2386.013	27.13	27.46	-17.27	37.32	54.00	16.68	Vertical

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### 802.11b\_Channel 11



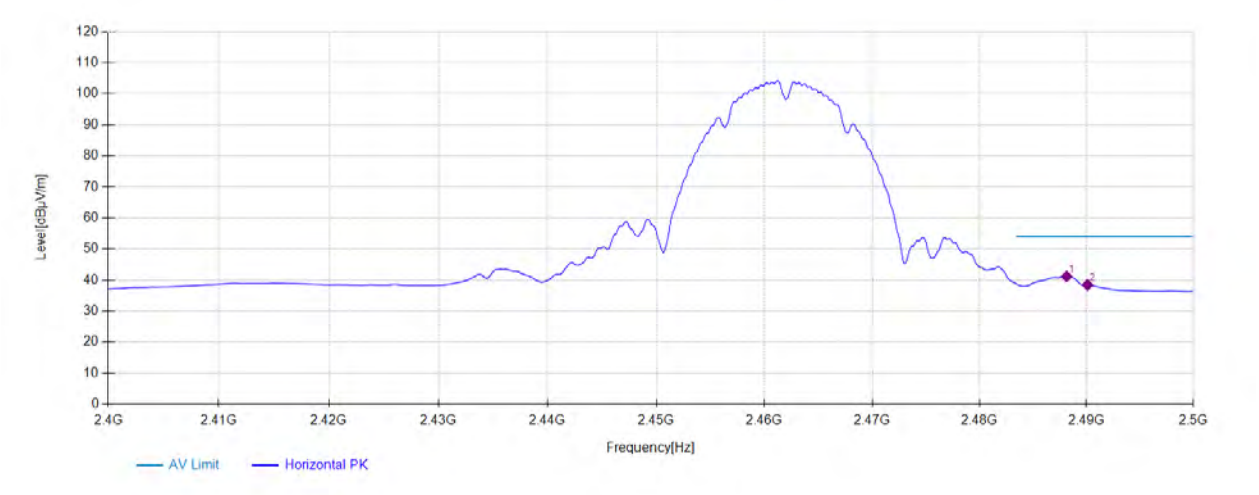
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.943	49.14	27.74	-17.16	59.72	74.00	14.28	Horizontal
2	2493.6468	47.82	27.77	-17.21	58.38	74.00	15.62	Horizontal

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### 802.11b\_Channel 11



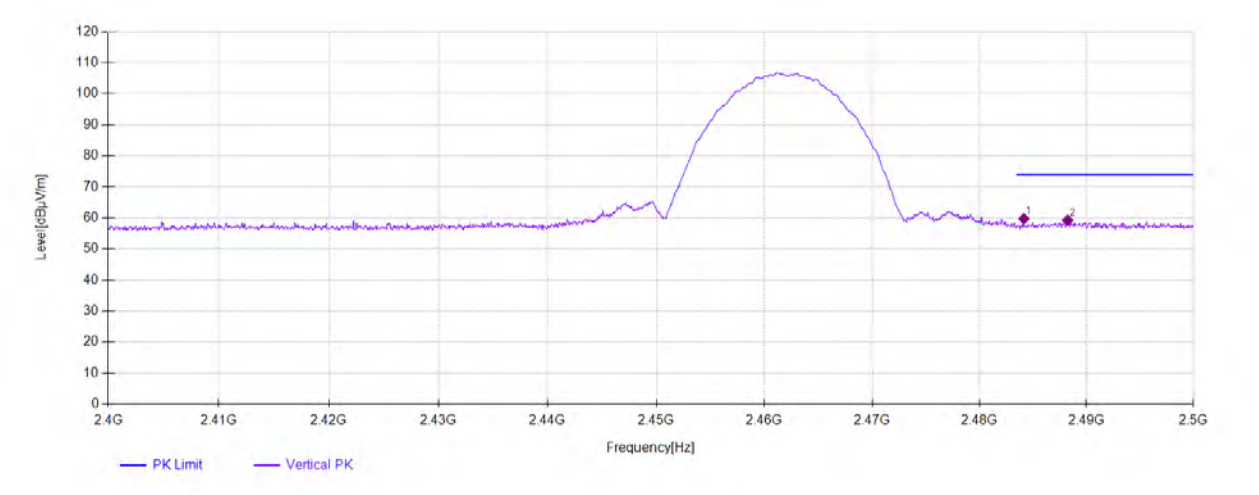
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2488.1441	30.59	27.75	-17.17	41.17	54.00	12.83	Horizontal
2	2490.095	27.86	27.76	-17.19	38.43	54.00	15.57	Horizontal

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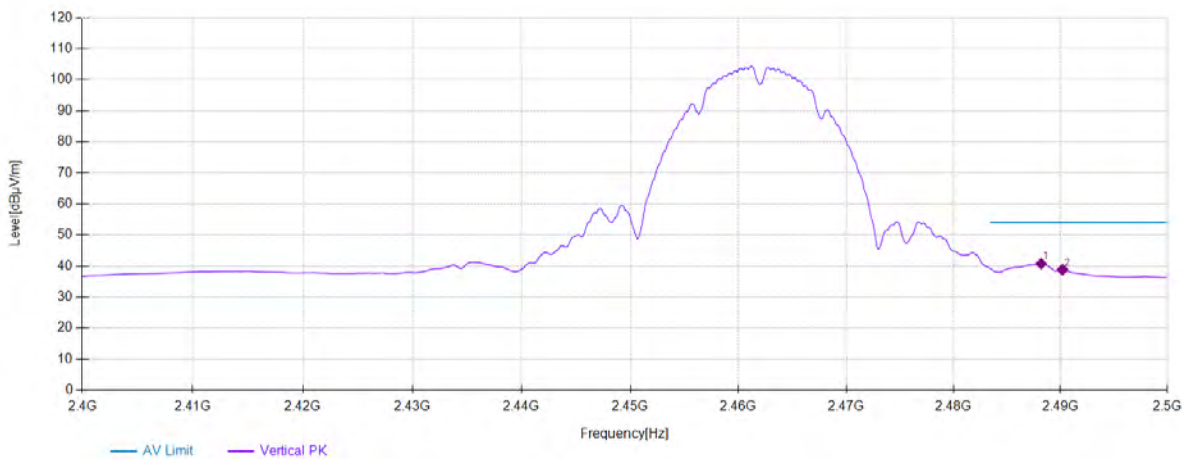
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.1421	49.14	27.74	-17.15	59.73	74.00	14.27	Vertical
2	2488.2441	48.65	27.75	-17.17	59.23	74.00	14.77	Vertical

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### 802.11b\_Channel 11



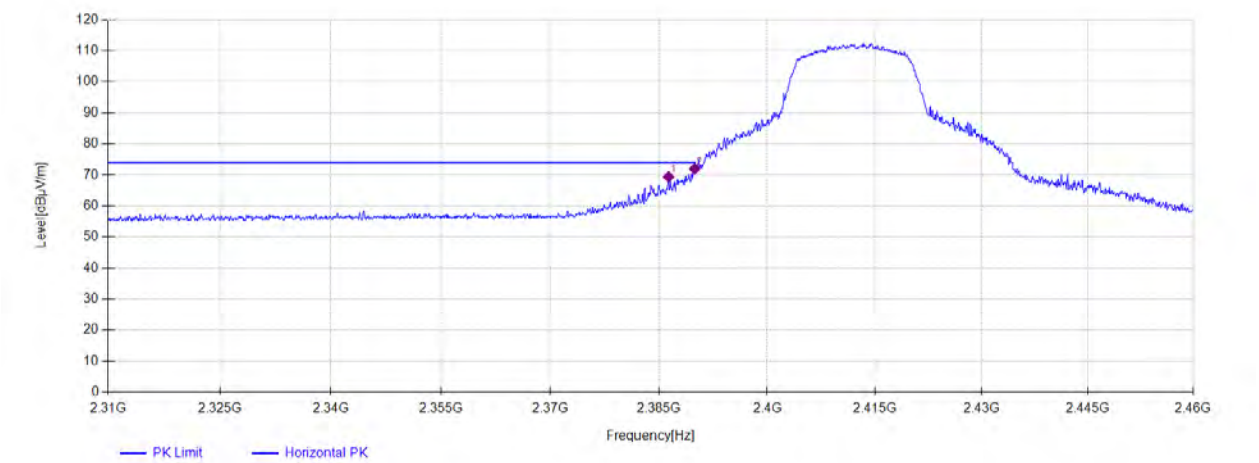
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2488.1941	30.20	27.75	-17.17	40.78	54.00	13.22	Vertical
2	2490.1951	28.25	27.76	-17.19	38.82	54.00	15.18	Vertical

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### 802.11g\_Channel 1



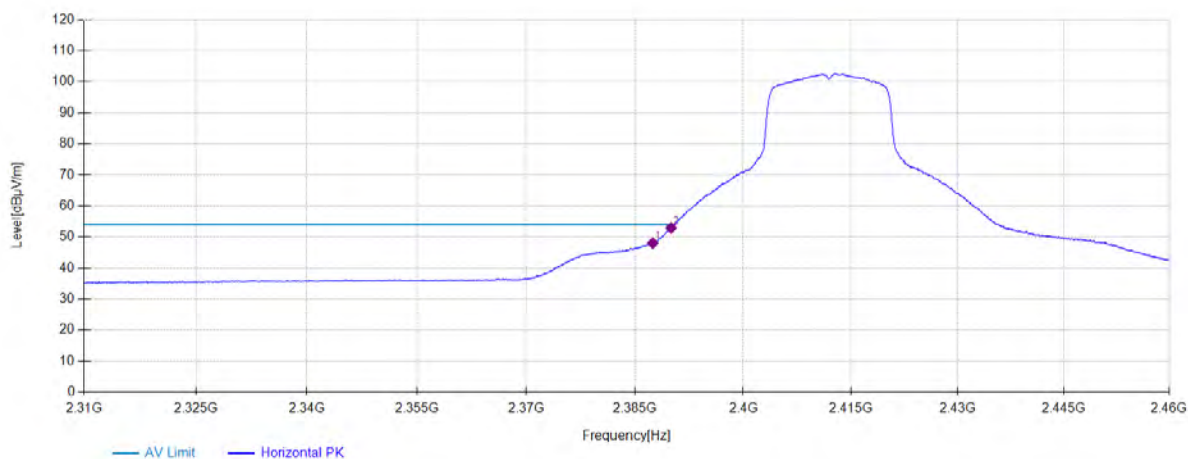
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2386.3132	59.19	27.45	-17.27	69.37	74.00	4.63	Horizontal
2	2389.915	61.76	27.44	-17.25	71.95	74.00	2.05	Horizontal

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.4387	37.83	27.45	-17.26	48.02	54.00	5.98	Horizontal
2	2389.99	42.76	27.44	-17.25	52.95	54.00	1.05	Horizontal

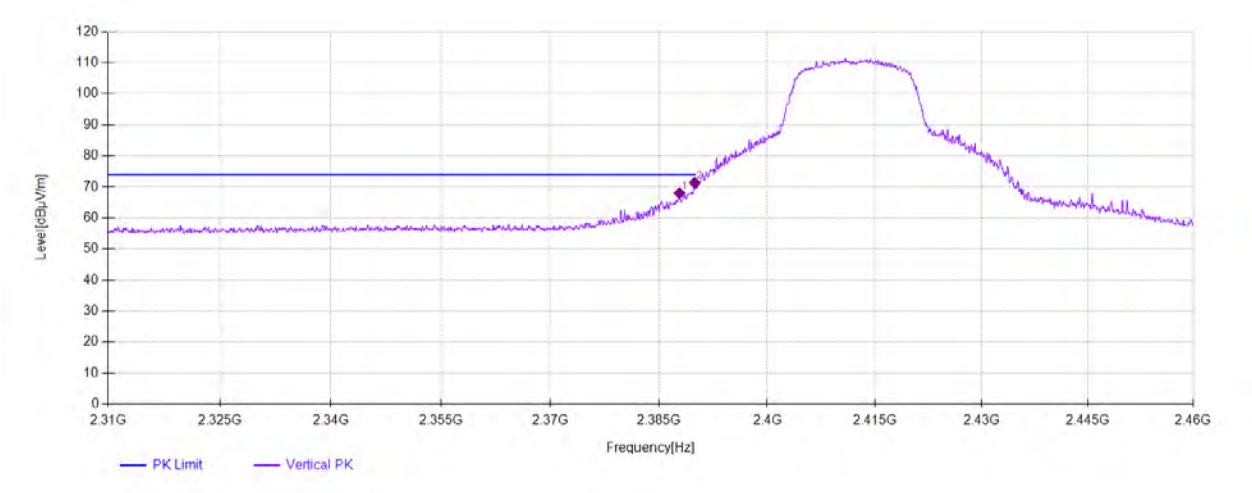
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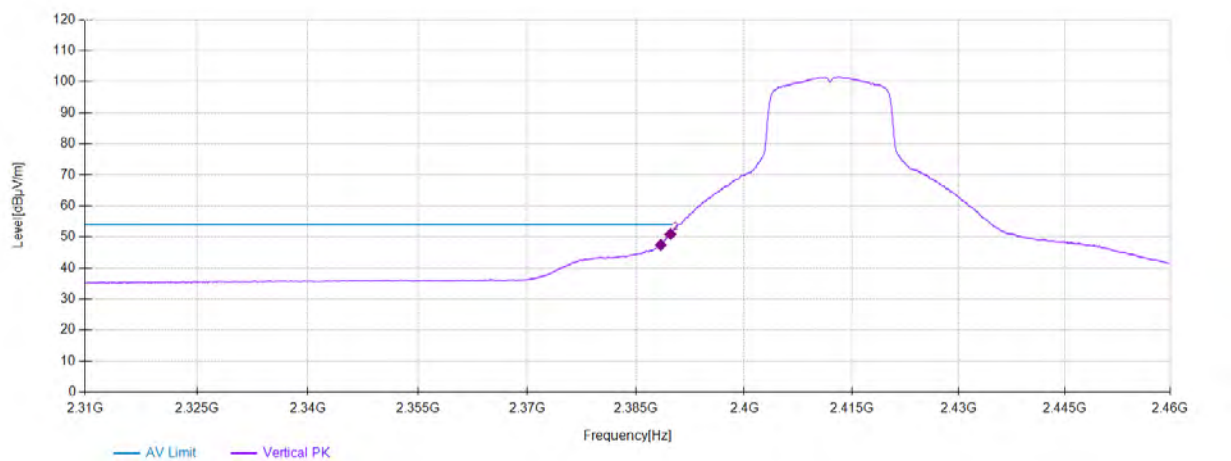
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.8139	57.80	27.45	-17.26	67.99	74.00	6.01	Vertical
2	2389.915	61.12	27.44	-17.25	71.31	74.00	2.69	Vertical

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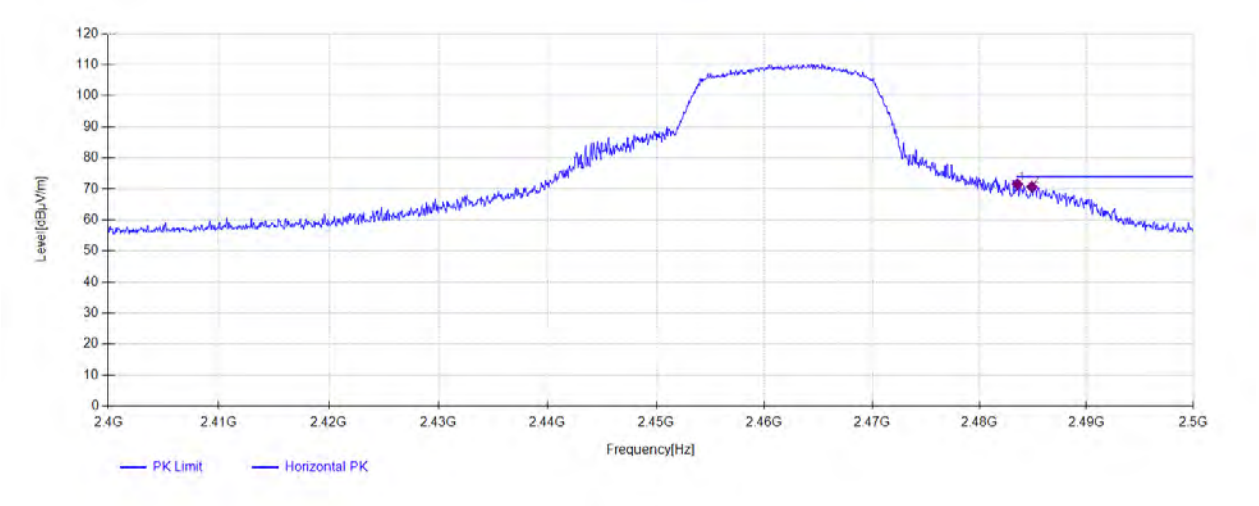
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.4142	37.26	27.45	-17.26	47.45	54.00	6.55	Vertical
2	2389.7649	40.74	27.44	-17.25	50.93	54.00	3.07	Vertical

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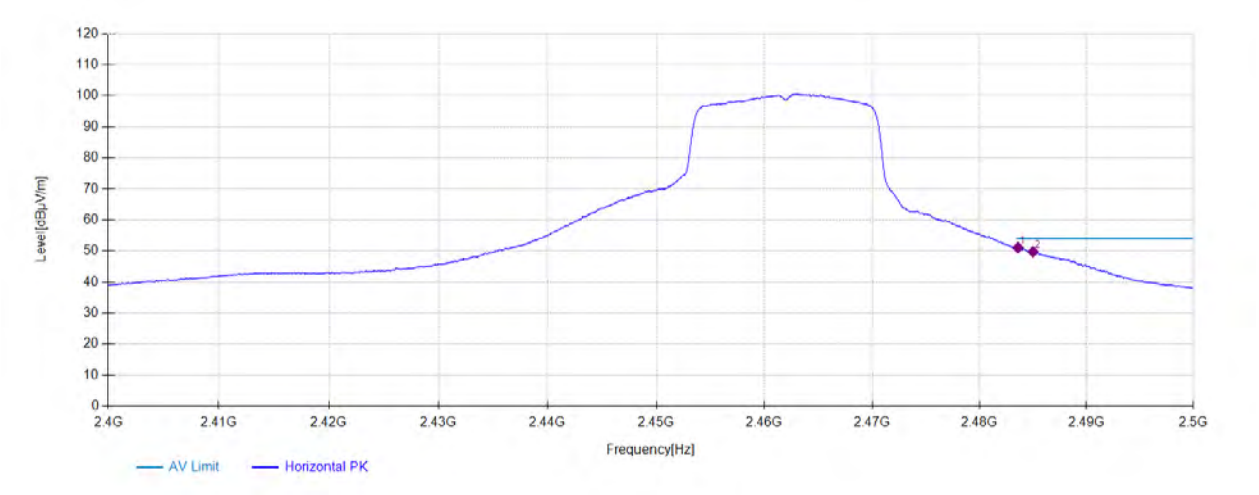
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5418	60.90	27.73	-17.14	71.49	74.00	2.51	Horizontal
2	2484.8924	60.07	27.74	-17.15	70.66	74.00	3.34	Horizontal

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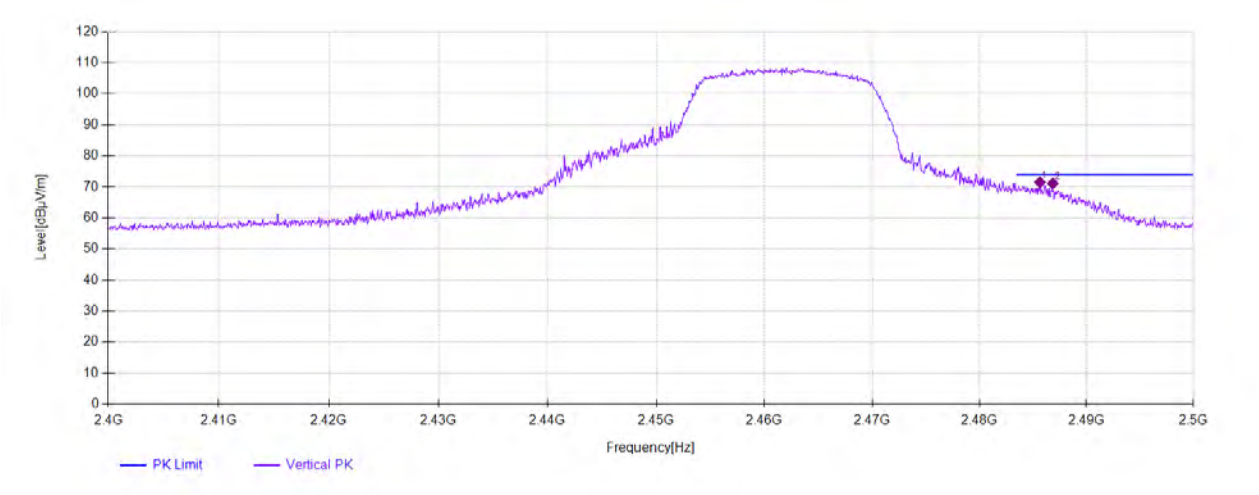
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5918	40.49	27.73	-17.14	51.08	54.00	2.92	Horizontal
2	2484.9925	39.16	27.74	-17.15	49.75	54.00	4.25	Horizontal

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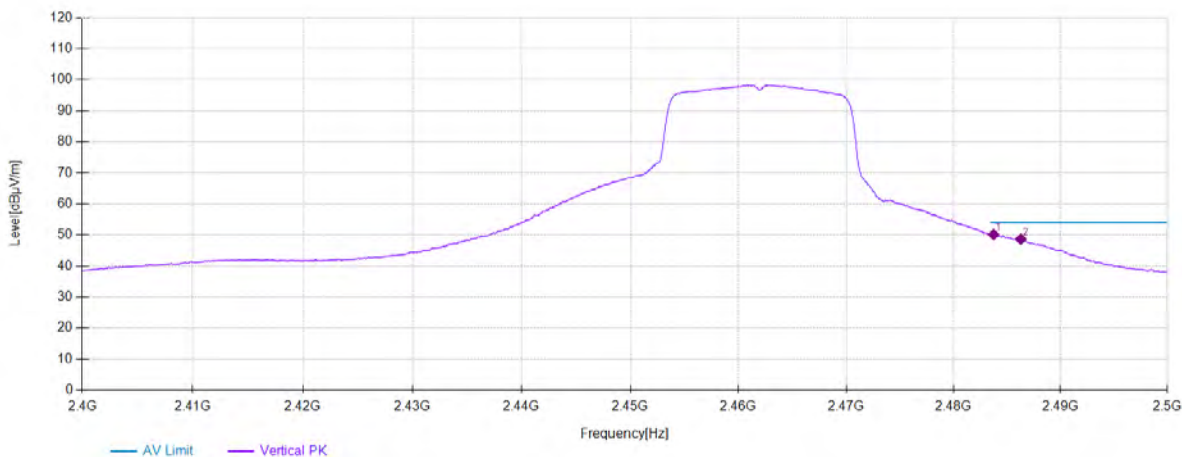
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.6428	60.89	27.74	-17.16	71.47	74.00	2.53	Vertical
2	2486.8434	60.51	27.75	-17.17	71.09	74.00	2.91	Vertical

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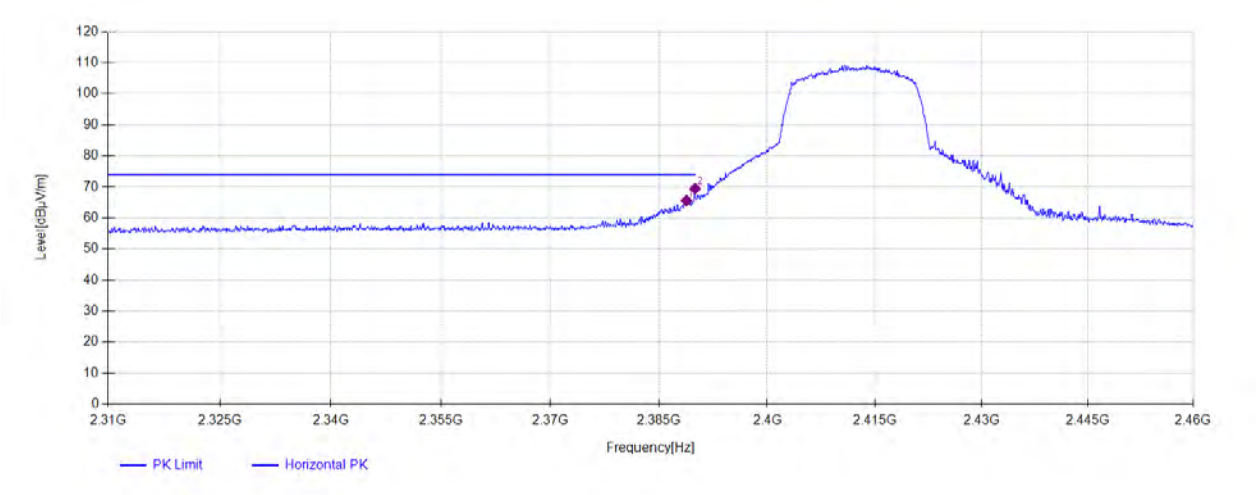
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.7419	39.57	27.73	-17.15	50.15	54.00	3.85	Vertical
2	2486.2931	38.09	27.75	-17.16	48.68	54.00	5.32	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.7894	55.40	27.44	-17.26	65.58	74.00	8.42	Horizontal
2	2389.99	59.24	27.44	-17.25	69.43	74.00	4.57	Horizontal

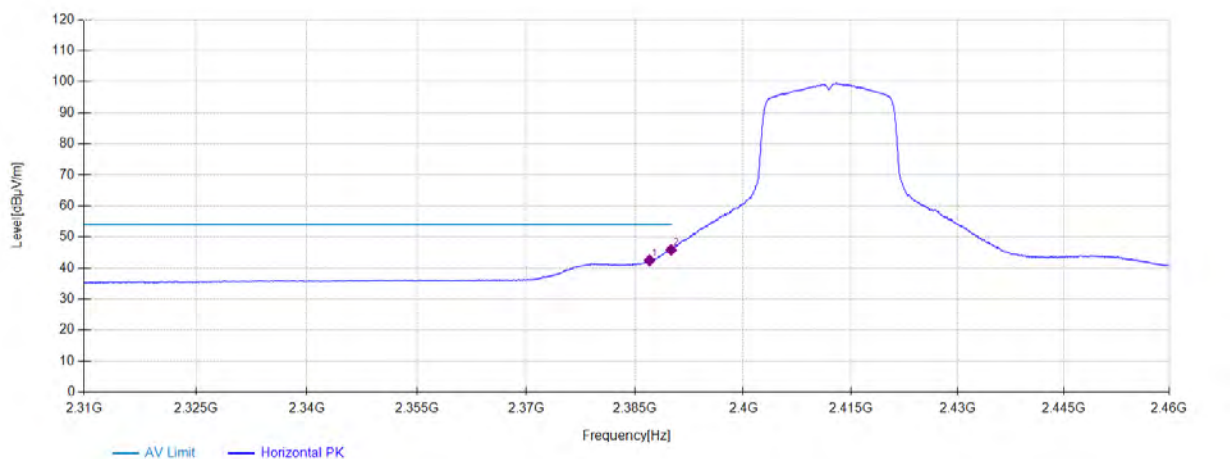
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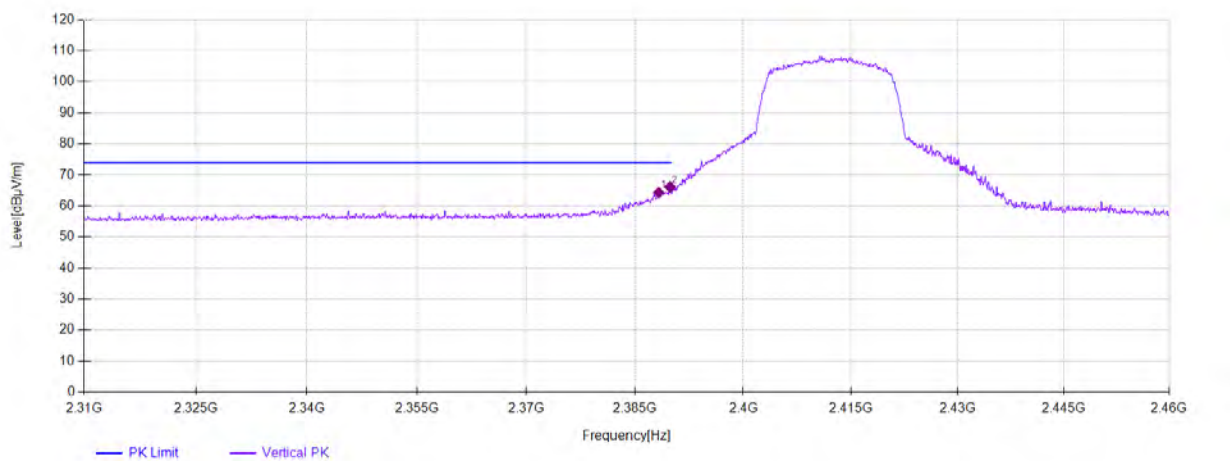
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2386.9885	32.29	27.45	-17.26	42.48	54.00	11.52	Horizontal
2	2389.99	35.67	27.44	-17.25	45.86	54.00	8.14	Horizontal

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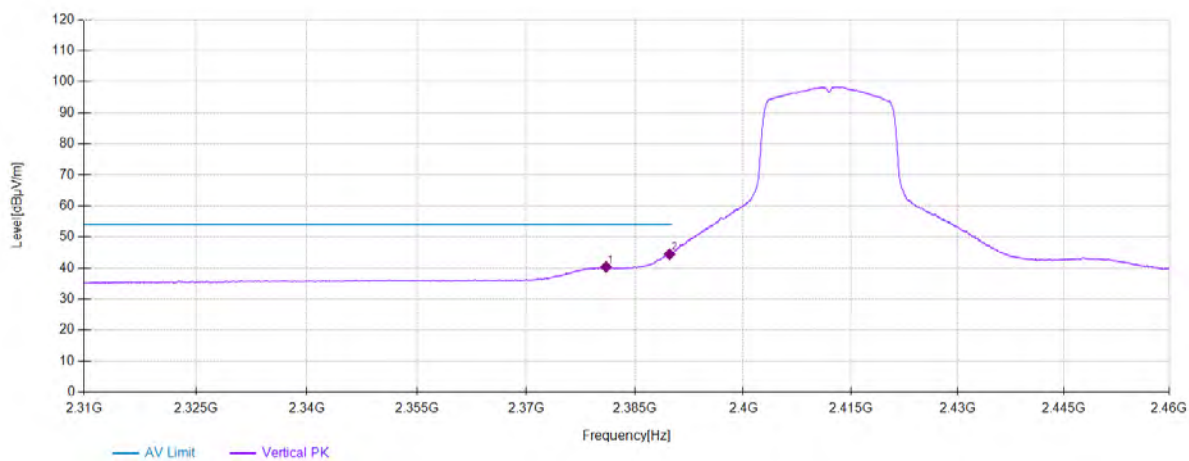
Data List								
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1	2388.2641	54.10	27.45	-17.26	64.29	74.00	9.71	Vertical
2	2389.8399	55.91	27.44	-17.25	66.10	74.00	7.90	Vertical

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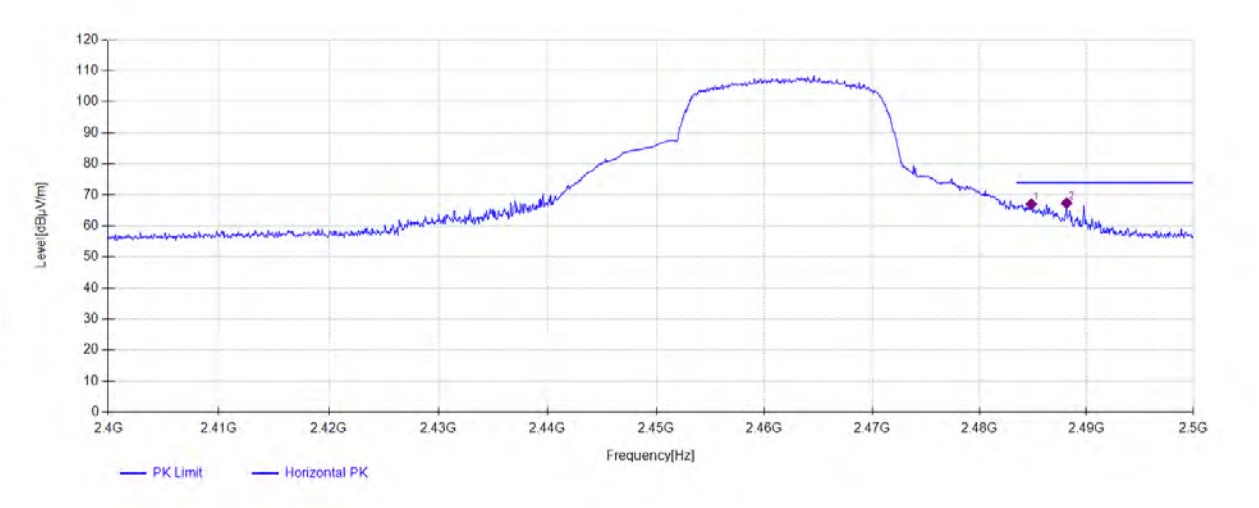
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2380.9855	30.19	27.48	-17.29	40.38	54.00	13.62	Vertical
2	2389.7649	34.29	27.44	-17.25	44.48	54.00	9.52	Vertical

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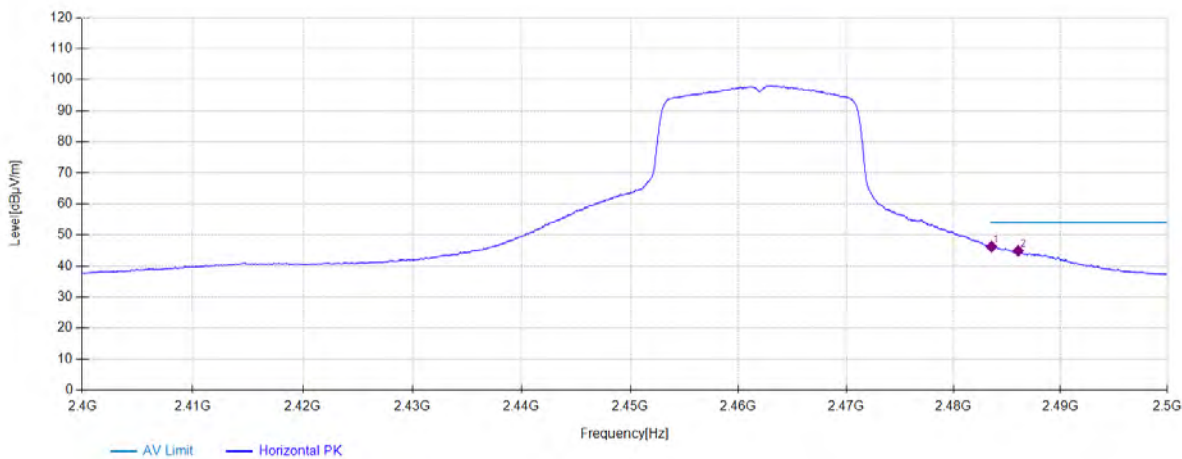
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.8424	56.40	27.74	-17.15	66.99	74.00	7.01	Horizontal
2	2488.1441	56.77	27.75	-17.17	67.35	74.00	6.65	Horizontal

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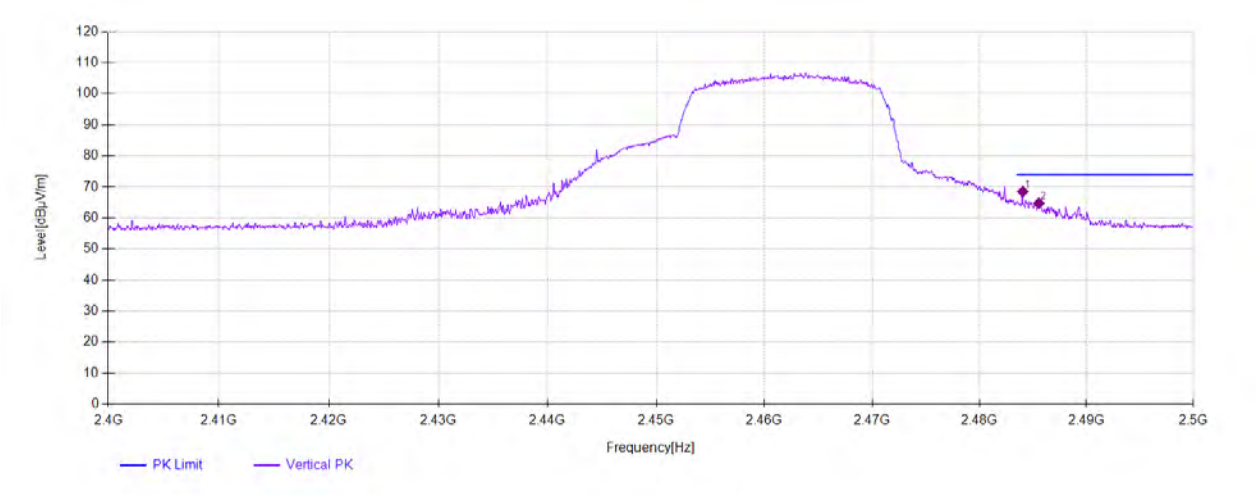
Data List								
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1	2483.5418	35.67	27.73	-17.14	46.26	54.00	7.74	Horizontal
2	2486.043	34.32	27.74	-17.16	44.90	54.00	9.10	Horizontal

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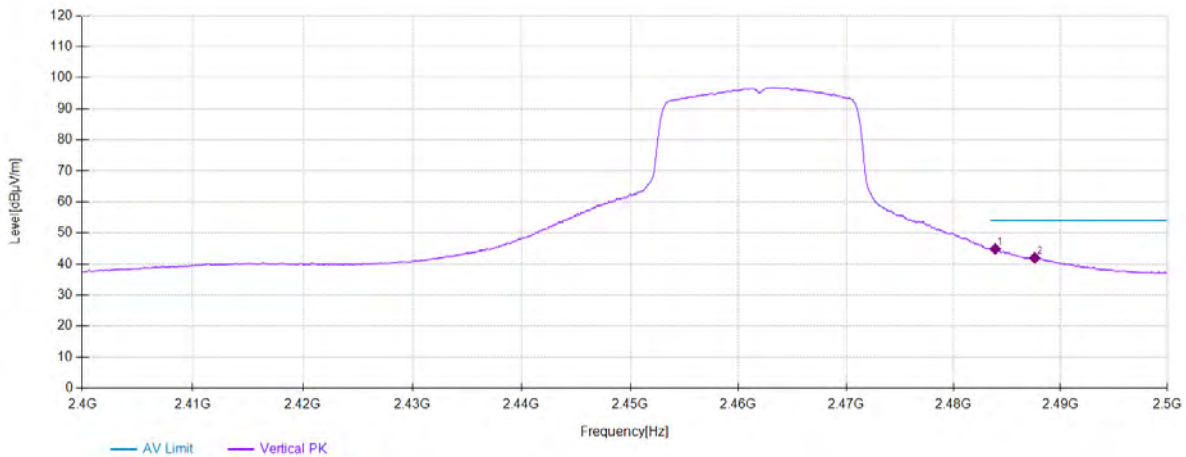
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.042	57.89	27.74	-17.15	68.48	74.00	5.52	Vertical
2	2485.5428	54.14	27.74	-17.16	64.72	74.00	9.28	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8919	34.27	27.74	-17.15	44.86	54.00	9.14	Vertical
2	2487.5938	31.40	27.75	-17.17	41.98	54.00	12.02	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)

- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

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