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### **TEST REPORT**

Test Result :	PASS *
Date of Issue:	2023/12/15
Date of Test:	2023/11/14 to 2023/12/01
Date of Receipt:	2023/11/13
Standards:	FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C
FCC ID:	2AFZZN87G
Trade Mark:	Redmi
Model No.:	23124RN87G
EUT Description:	Mobile Phone
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Applicant:	Xiaomi Communications Co., Ltd.
Application No.:	SEWM2311000456RG

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

Authorized Signature:

лен

Well Wei Wireless Laboratory Manager



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#### 1 Version

		<b>Revision Record</b>		
Version	Chapter	Date	Modifier	Remark
01		2023/12/15		Original

Prepared By	(Ives Cheng) / Test Engineer
Checked By	Stone Ju (Stone Gu) / Reviewer



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#### 2 Test Summary

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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		ANSI C63.10-2013 Section 11.6	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2013 Section 11.9.1.3	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:	Xiaomi Communications Co., Ltd.
Address of Applicant:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 3.2 Test Location

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

#### 3.3 Test Facility

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

#### • A2LA (Certificate No. 6336.01)

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

#### Innovation, Science and Economic Development Canada

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

CAB identifier: CN0120.

IC#: 27594.

#### • FCC –Designation Number: CN1312

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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#### 3.4 General Description of EUT

EUT Description:	Mobile Phon	Mobile Phone		
Model No.:	23124RN870	23124RN87G		
Trade Mark:	Redmi	Redmi		
Hardware Version:	13510C3V			
Software Version:	MIUI 14			
Power Supply:	DC 3.84V fro adapter.	om interna	I rechargeable battery which can be charged by AC/DC	
IMEI:	RF Conducte	ed	IMEI1:865408060039848 IMEI2:865408060039855	
	RSE & AC p	ower line	IMEI1:865408060041505 IMEI2:865408060041513	
Operation Frequency:	802.11b/g/n(	HT20):	2412MHz to 2462MHz	
Madulation Type:	802.11b:	DSSS (I	DBPSK, DQPSK, CCK)	
Modulation Type:	802.11g/n:	802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Number of Channels:	802.11b/g/n(	802.11b/g/n(HT20): 11		
Channel Spacing:	5MHz	5MHz		
	SISO	SISO 802.11b/g/n		
		CDD: 80	02.11b/g/n: Tx & Rx	
Smart System:		STBC: 8	STBC: 802.11n: Tx & Rx	
		TXBF: 8	302.11n: Tx & Rx	
	Diversity	802.11b	/g:Tx & Rx	
Antenna Type:	PIFA Antenn	PIFA Antenna		
	-1.25dBi (An	-1.25dBi (Ant6)		
Antenna Gain:		Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	1.0dB			
Remark: As above information is p suitability, reliability or/an			the applicant. SGS is not liable to the accuracy, on.	



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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:							
C	hannel		Frequency for 802.11 b/g/n (HT20)				
The Lov	west channel		2412MHz				
The Mic	ddle channel		2437MHz				
The Hig	hest channel		2462MHz				



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#### 3.5 Test Environment and Mode

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Environment Parameter	101.0 kPa Selected Values During Tests		
Relative Humidity	44-46 % RH Ambient		
Value	Temperature(°C) Voltage(V)		
NTNV	22~23	3.84	
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)	/



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#### 4 Test results and Measurement Data

#### 4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
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#### 15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the antenna is -1.25dBi (Ant6). \*

\*Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

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#### 4.2 AC Power Line Conducted Emissions

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Test Requirement:	47 CFR Part 15C Sectio	n 15.207		
Test Method:	ANSI C63.10-2013 Section 6.2			
Test Frequency Range:	150kHz to 30MHz			
Receiver Setup:	RBW = 9kHz, VBW = 30	kHz		
Limit:		Limit (d	BuV)	
	Frequency range (MHz)	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 log	arithm of the frequency.		
Test Procedure:	room. 2) The EUT was connect Impedance Stabilization impedance. The power of a second LISN 2, which plane in the same way a multiple socket outlet str single LISN provided the 3) The tabletop EUT wa ground reference plane. placed on the horizontal 4) The test was perform of the EUT shall be 0.4 r vertical ground reference reference plane. The LIS unit under test and bond mounted on top of the gr between the closest poir the EUT and associated In order to find the maxin	ed with a vertical ground refe n from the vertical ground refe e plane was bonded to the ho SN 1 was placed 0.8 m from the ed to a ground reference plane round reference plane. This d ints of the LISN 1 and the EUT equipment was at least 0.8 m mum emission, the relative po- interface cables must be cha	ugh a LISN 1 (Line $D\Omega/50\mu$ H + $5\Omega$ linear EUT were connected to ference g measured. A ble power cables to a xceeded. table 0.8m above the ement, the EUT was rence plane. The rear erence plane. The rizontal ground he boundary of the he for LISNs istance was . All other units of h from the LISN 2. psitions of	



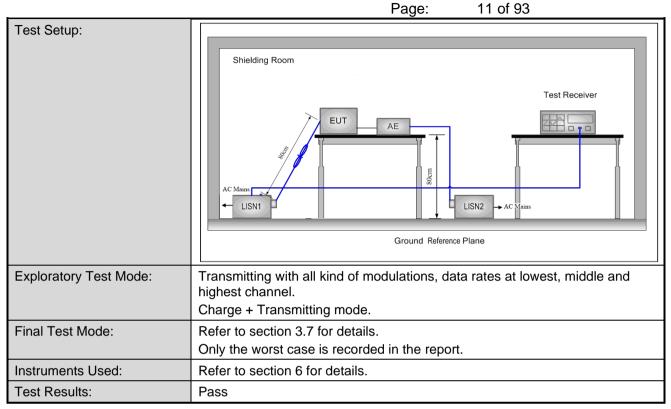
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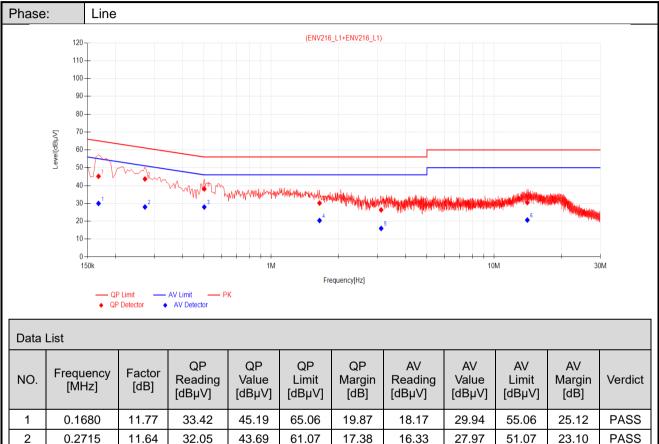
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#### Measurement Data

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



#### 6 Remark:

3

4

5

0.5010

1.6485

3.1155

14.1090

1. The following Quasi-Peak and Average measurements were performed on the EUT:

38.10

30.15

26.35

30.45

56.00

56.00

56.00

60.00

17.90

25.85

29.65

29.55

16.35

8.66

4.20

8.72

27.95

20.39

15.95

20.64

46.00

46.00

46.00

50.00

18.05

25.61

30.05

29.36

PASS

PASS

PASS

PASS

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

26.50

18.42

14.60

18.53

3. Margin = Limit[dB $\mu$ V] – Value[dB $\mu$ V]

11.60

11.73

11.75

11.92



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								Report No Rev.: Page:	01	WM2311 of 93	000456	RG05
Phase	):	Neu	tral									
	120-					(ENV21	6_N+ENV216_N)					-
	110-											
	100-	+										
	90 -	+										
	80-	-										
	돌 <sup>70-</sup>											
		h		2								_
	40 -		W L	M. M.		3	<b>≜</b> <sup>4</sup>	_ 5		6		
	30-		◆ <sup>1</sup> V	hur v 🔹 M	Marin Maril	1 shan yaka Mataliya farta	Martin Martin	WWWWWW	w/www.whe	AN A CONTRACTOR	ad . Double flat	
	20- 10-					◆ <sup>3</sup>	<b>◆</b> <sup>4</sup>	◆ <sup>5</sup>		◆ <sup>6</sup>		
	10-	T										
	0.											4
	0- 1:	50k			1M	Fre	quency[Hz]			I DM		H
Data		<u> </u>		AV Limit P AV Detector		Fre	quency[Hz]		1	J	30	H DM
Data NO.		• a				Fre QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
	List	ency Iz]	P Detector	AV Detector	K QP Value	QP Limit	QP Margin	Reading	AV Value	AV Limit	AV Margin	
NO.	List Frequ [MH	ency Iz]	Factor [dB]	AV Detector QP Reading [dBµV]	k QP Value [dBμV]	QP Limit [dBµV]	QP Margin [dB]	Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdic
NO. 1	List Frequ [MH	ency Iz] 715	Factor [dB]	AV Detector QP Reading [dBµV] 32.23	R QP Value [dBμV] 43.87	QP Limit [dBµV] 61.07	QP Margin [dB] 17.20	Reading [dBµV] 14.09	AV Value [dBµV] 25.73	AV Limit [dBµV] 51.07	AV Margin [dB] 25.34	Verdic
NO. 1 2	List Frequ [M+ 0.27 0.54	ency Hz] 715 115 310	P Detector         Factor           [dB]         11.64           11.62         11.62	AV Detector QP Reading [dBµV] 32.23 26.65	<ul> <li>QP</li> <li>Value</li> <li>[dBμV]</li> <li>43.87</li> <li>38.27</li> </ul>	QP Limit [dBµV] 61.07 56.00	QP Margin [dB] 17.20 17.73	Reading [dBµV] 14.09 16.96	ΑV Value [dBμV] 25.73 28.58	AV Limit [dBµV] 51.07 46.00	AV Margin [dB] 25.34 17.42	Verdic PASS PASS
NO. 1 2 3	List Frequ [MH 0.27 0.54 1.13	rency 1z] 715 115 310 130	Factor [dB] 11.64 11.62 11.72	AV Detector QP Reading [dBµV] 32.23 26.65 14.71	<ul> <li>QP</li> <li>Value</li> <li>[dBμV]</li> <li>43.87</li> <li>38.27</li> <li>26.43</li> </ul>	QP Limit [dBµV] 61.07 56.00 56.00	QP Margin [dB] 17.20 17.73 29.57	Reading [dBµV]           14.09           16.96           4.95	ΑV Value [dBμV] 25.73 28.58 16.67	AV Limit [dBµV] 51.07 46.00 46.00	AV Margin [dB] 25.34 17.42 29.33	Verdia PASS PASS PASS

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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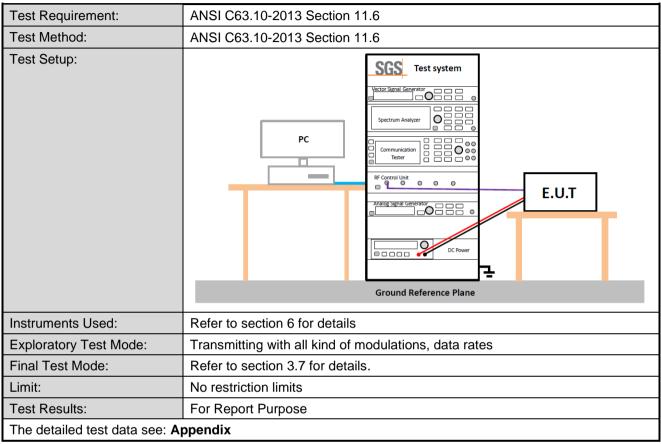
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#### 4.3 Duty Cycle





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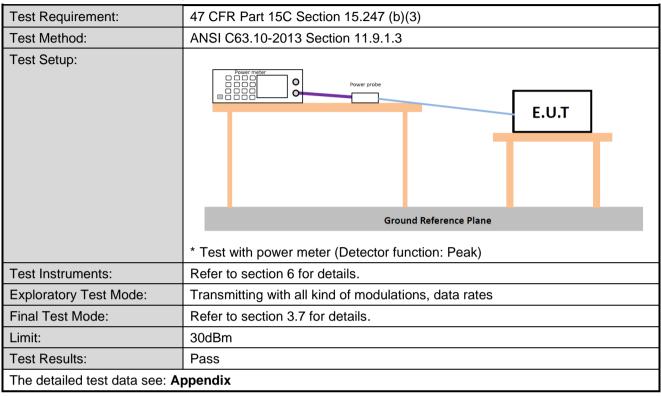
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#### 4.4 Conducted Output Power





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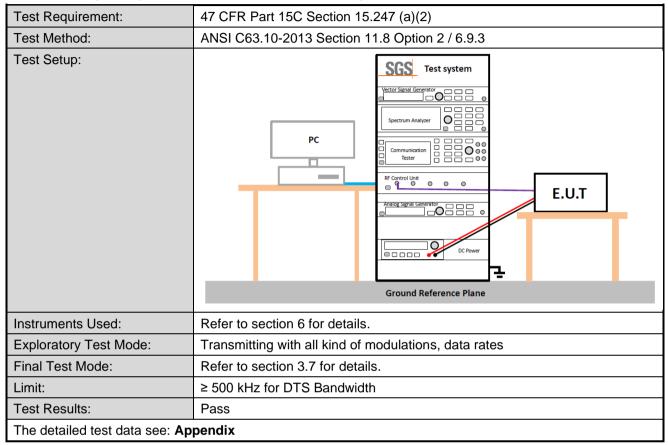
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#### 4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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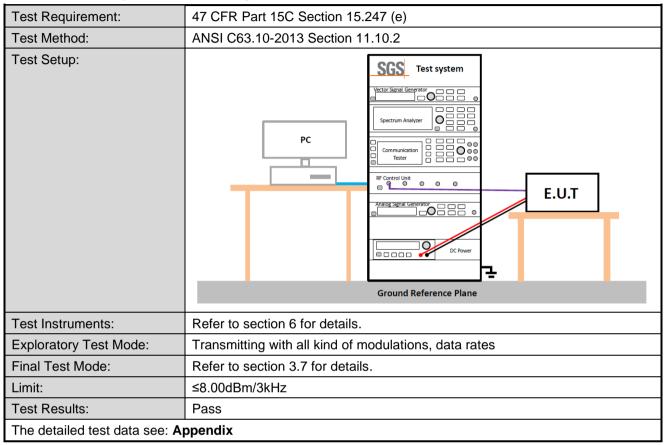
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#### 4.6 Power Spectral Density





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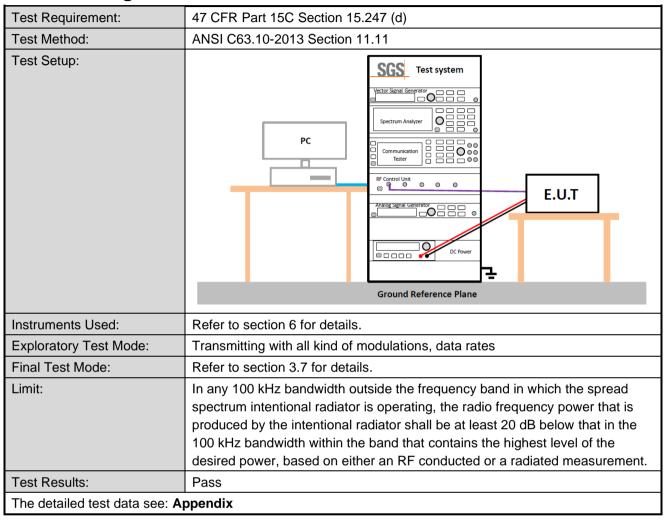
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#### 4.7 Band-edge for RF Conducted Emissions





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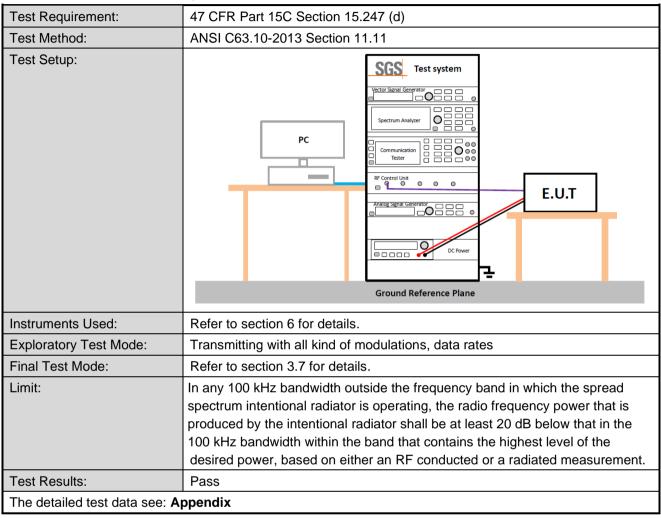
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#### 4.8 **RF Conducted Spurious Emissions**





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#### 4.9 Radiated Spurious Emissions

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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-Anechoi	ic 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
	Above IGHZ	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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		Report No.: Rev.: Page:	SEWM2311000456RG05 01 21 of 93
Test Setup:			
EUT Turstable Groun	0.6m Loop Antenna 3m or 10m d Reference Plane	EUT EUT Turntable Gro	3m or 10m
		Test	Receiver RecAmpilier Controller
Figure 1. Be	low 30MHz	Figure	2. 30MHz to 1GHz
	Im or 3rr Im or 3rr Im or 3rr Im or 3rr Im or 3rr Test Receiver	1m	
Test Procedure:	<ul> <li>a. For below 1GHz, the E meters above the grout table was rotated 360 or radiation.</li> <li>b. For above 1GHz, the E meters above the grout was rotated 360 degree (Distance from antenna</li> <li>c. The EUT was set 3 or antenna, which was model. The antenna height is ground to determine the horizontal and vertical measurement.</li> <li>e. For each suspected entities then the antenna was the frequency of below 300 and the second se</li></ul>	EUT was placed on the nd at a 3 or 10 meter degrees to determine EUT was placed on the nd at a 3 meter semi- es to determine the po- to EUT is 1m for mea 10 meters away from ounted on the top of a varied from one meter is maximum value of to polarizations of the ar nission, the EUT was tuned to heights from MHz, the antenna was	the interference-receiving variable-height antenna tower. r to four meters above the



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	<li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li>
	g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
	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.
	i. Repeat above procedures until all frequencies measured was complete.
	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
	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.
	<ol> <li>At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.</li> </ol>
Test Configuration:	Measurements below 30MHz
	• RBW = 10 kHz
	• VBW = 30 kHz
	<ul> <li>Detector = Peak &amp; Average &amp; Quasi-peak</li> </ul>
	Trace mode = max hold
	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	<ul> <li>Detector = Quasi-peak</li> <li>Trace mode = max hold</li> </ul>
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW $\geq$ 3 MHz
	Detector = Peak
	• Sweep time = auto
	<ul> <li>Trace mode = max hold</li> </ul>
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	<ul> <li>VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> </ul>
	<ul> <li>VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum</li> </ul>
	transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
	Charge + 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	



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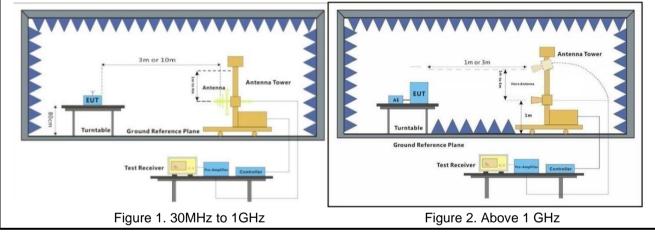
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#### 4.10Restricted bands around fundamental frequency

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 Chaml	per)		
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		
		54.0	Average Value		
	Above 1GHz	74.0	Peak Value		

Test Setup:

SG





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SG:

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Test Procedure:       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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.         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 camber. The table was rotated 360 degrees to determine the position of the highest radiation.         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.         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.         e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned from 0 degrees to 360 degrees to find the maximum reading.         f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.         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 channel, the Highest channel         h. Test the EUT in the lowest channel, the Highest channel         h. Test adove procedures until all frequencies measured was complete.         Measurements Below 1000MHz         • RBW = 120 KHz         • VBW = 300 KHz         • Detector = Quasi-peak	i	Page: 24 of 93
meters above the ground at 3 meter semi-anechoic cambe. The table was rotated 360 degrees to determine the position of the highest radiation.         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.         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.         e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned from 0 degrees to 360 degrees to find the maximum reading.         f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.         g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emission in the restricted band. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel         h. Test the EUT in the lowest channel , the Highest channel         h. Test the EUT in the lowest channel, the Highest channel         h. Test adator measurements are performed in X, Y. Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.         j. Repeat above procedures until all frequencies measured was complete.         Measurements Below 1000MHz         • RBW = 120 kHz         • VBW = 300 kHz         • Detector = Peak         • Sweep time = auto         • Trace mode = max hold	Test Procedure:	above the ground at a 3 or 10 meter semi-anechoic camber. The table was
antenna, which was mounted on the top of a variable-height antenna Tower.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.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.f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.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 channelh. Test the EUT in the lowest channel , the Highest channelh. Test be EUT in the lowest channel , the Highest channelh. Test above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz · RBW = 120 kHzv VBW = 300 kHz· Detector = Duasi-peak · Trace mode = max hold Peak Measurements Above 1000 MHz · RBW = 1 MHz · VBW ≥ 3 MHz · Detector = Peak · Sweep time = auto · Trace mode = max hold Average Measurements Above 1000MHz · RBW = 1 MHz · VBW ≥ 1/T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T,		meters above the ground at a 3 meter semi-anechoic camber. The table was
to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.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.f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.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 channelh. Test the EUT in the lowest channel , the Highest channelh. Test the EUT in the lowest of hand the X axis positioning which it is worse case.j. Repeat above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz • RBW = 120 kHzv BW = 300 kHz• Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 per		
then the anteinna was tuned to heights from 1 me <sup>T</sup> to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.f.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.g.Place a marker at the end 0 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 channelh.Test the EUT in the lowest channel , the Highest channelh.Test the EUT in the lowest channel , the Highest channeli.The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz· RBW = 120 kHz · VBW ≥ 300 kHz· Detector = Quasi-peak · Trace mode = max hold Peak Measurements Above 1000 MHz · RBW = 1 MHz · VBW ≥ 3 MHz · Detector = Peak · Sweep time = auto · Trace mode = max hold Average Measurements Above 1000MHz · RBW = 1 MHz · VBW ≥ 1 /T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T, when duty cycle is no less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, when duty cycle is less than 98 percent. · VBW ≥ 1/T, wh		to determine the maximum value of the field strength. Both horizontal and
Bandwidth with Maximum Hold Mode.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 h. Test the EUT in the lowest channel, the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 3 MHz • VBW ≥ 1 /17, when duty cycle is no less than 98 percent. • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is no less than 98 percent. • VBW ≥ 1/17, when duty cycle is less than 98 percent. • VBW ≥ 1/17, when duty cycle is less than 98 percent. • VBW ≥ 1/17, when duty cycle is less than 98 percent. • VBW ≥ 1/17, when duty cycle is less than 98 percent. • VBW ≥ 1/17, when duty cycle is less than 98 percent. • Charge + Transmitting mode. Fi		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
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 channelh. Test the EUT in the lowest channel , the Highest channeli. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 10HZ, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less th		
h. Test the EUT in the lowest channel , the Highest channeli. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 MHz • VBW = 1 0 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • Charge + Transmitting mode.Exploratory Test Mode:Refer to section 3.7 for details.		frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent. • Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Exploratory Test Mode:Refer to section 3.7 for details.		-
j. Repeat above procedures until all frequencies measured was complete.Test Configuration:Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no 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.Exploratory Test Mode:Refer to section 3.7 for details.		i. The radiation measurements are performed in X, Y, Z axis positioning for
• RBW = 120 kHz• VBW = 300 kHz• Detector = Quasi-peak• Trace mode = max holdPeak Measurements Above 1000 MHz• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW ≥ 1/T, when duty cycle is no less than 98 percent.• 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.Exploratory Test Mode:Refer to section 3.7 for details.		
• Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.	Test Configuration:	
• Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
Peak Measurements Above 1000 MHz• RBW = 1 MHz• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW ≥ 10 Hz, when duty cycle is no less than 98 percent.• VBW ≥ 1/T, when duty cycle is less than 98 percent.• 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
<ul> <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> <li>Average Measurements Above 1000MHz</li> <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> <li>Exploratory Test Mode:</li> <li>Final Test Mode:</li> </ul>		
• VBW ≥ 3 MHz• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW ≥ 10 Hz, when duty cycle is no less than 98 percent.• 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
• Detector = Peak• Sweep time = auto• Trace mode = max holdAverage Measurements Above 1000MHz• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
• Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
• Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
Average Measurements Above 1000MHz• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
• RBW = 1 MHz• VBW = 10 Hz, when duty cycle is no less than 98 percent.• 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
• VBW = 10 Hz, when duty cycle is no less than 98 percent. • 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.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		-
• 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.         Exploratory Test Mode:       Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.         Final Test Mode:       Refer to section 3.7 for details.		
transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.Exploratory Test Mode:Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.Final Test Mode:Refer to section 3.7 for details.		
maximum power control level for the tested mode of operation.         Exploratory Test Mode:       Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.         Final Test Mode:       Refer to section 3.7 for details.		
Exploratory Test Mode:       Charge + Transmitting mode.         Final Test Mode:       Refer to section 3.7 for details.		,
Exploratory Test Mode:       Charge + Transmitting mode.         Final Test Mode:       Refer to section 3.7 for details.		Transmitting with all kind of modulations, data rates.
Final Test Mode:     Refer to section 3.7 for details.	Exploratory Test Mode:	<b>.</b>
Instruments Used: Refer to section 6 for details.	Final Test Mode:	
	Instruments Used:	Refer to section 6 for details.



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Test Results:	Pass	
The detailed test data see	e: Appendix	



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

Item	Measurement Uncertainty
Total RF power, conducted	±0.54dB
RF power density, conducted	±1.03dB
Spurious emissions, conducted	±0.54dB
Radio Frequency	±1.0 %
Duty Cycle	±0.37%
Occupied Bandwidth	±1.0 %
Conduction Emission	± 2.90dB (150kHz to 30MHz)
	± 3.13dB (9k -30MHz)
Dedicted Emission	± 4.8dB (30M -1GHz)
Radiated Emission	± 4.8dB (1GHz to 18GHz)
	± 4.80dB (Above 18GHz)
	Total RF power, conducted         RF power density, conducted         Spurious emissions, conducted         Radio Frequency         Duty Cycle         Occupied Bandwidth

Remark:

S

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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#### 6 Equipment List

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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	2023/02/06	2024/02/05			
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10			
Measurement Software	Tonscend	JS1120-3 Test System V 3.3.20	SUWI-02-09-09	NCR	NCR			
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05			
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05			
Dowermeter	Anritsu	ML2495A		2022/11/23	2023/11/22			
Power meter			SUWI-01-31-01	2023/11/21	2024/11/20			
Pulse power	Anritsu	MA2411b	SUWI-01-32-01	2022/11/23	2023/11/22			
sensor			30001-01-32-01	2023/11/21	2024/11/20			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05			

CE Test System							
Equipment	t Manufacturer Model No. Invento		Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07		
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR		



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BSE Test System							
RSE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06		
Signal Analyzer	ROHDE& SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07		
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	Ant6	2412	8.12	2407.96	2416.08	≥0.5	PASS
11b	Ant6	2437	8.12	2432.92	2441.04	≥0.5	PASS
11b	Ant6	2462	8.60	2457.44	2466.04	≥0.5	PASS
11g	Ant6	2412	15.20	2404.40	2419.60	≥0.5	PASS
11g	Ant6	2437	15.20	2429.40	2444.60	≥0.5	PASS
11g	Ant6	2462	15.20	2454.36	2469.56	≥0.5	PASS
11n20SISO	Ant6	2412	15.40	2404.40	2419.80	≥0.5	PASS
11n20SISO	Ant6	2437	14.32	2430.28	2444.60	≥0.5	PASS
11n20SISO	Ant6	2462	15.24	2454.36	2469.60	≥0.5	PASS



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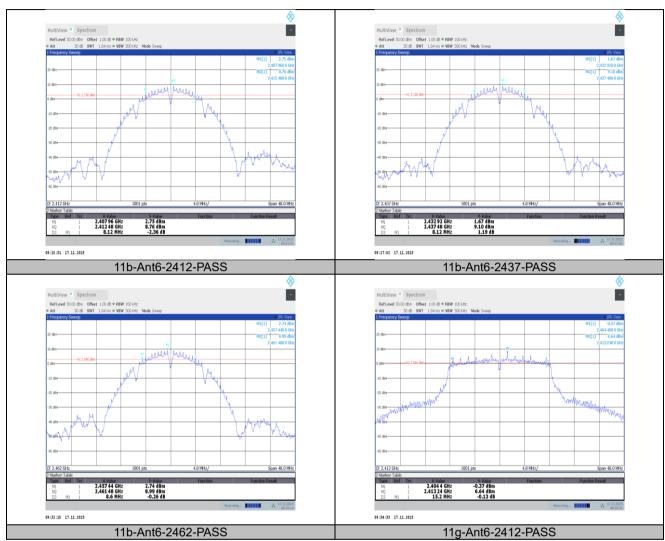
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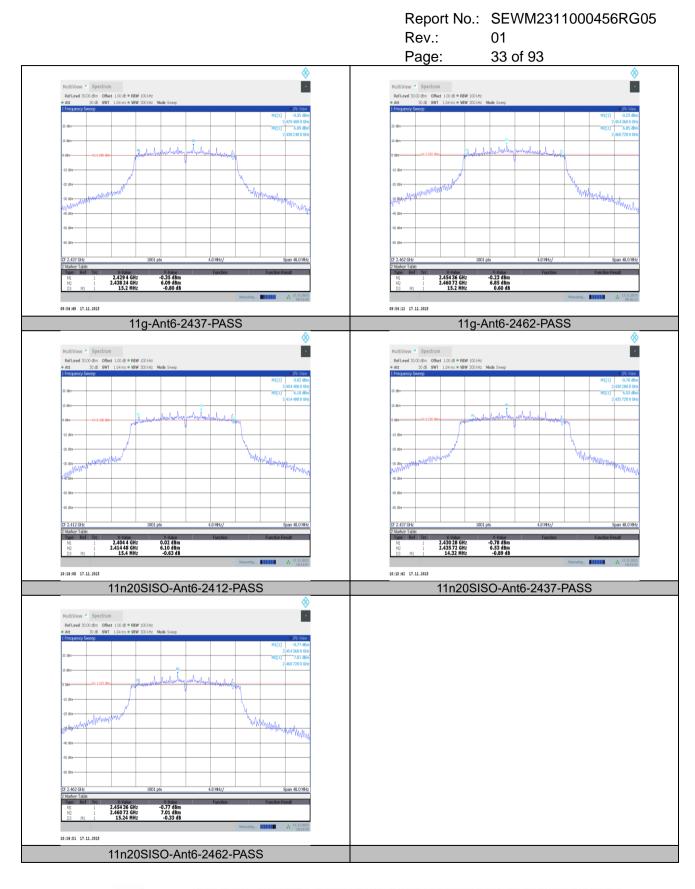
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#### Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant6	2412	12.973	2405.5812	2418.5540	
11b	Ant6	2437	12.908	2430.5261	2443.4345	
11b	Ant6	2462	13.088	2455.3033	2468.3914	
11g	Ant6	2412	17.011	2403.5445	2420.5550	For
11g	Ant6	2437	17.012	2428.4379	2445.4496	Report
11g	Ant6	2462	17.105	2453.3433	2470.4486	Purpose
11n20SISO	Ant6	2412	18.035	2403.0407	2421.0760	
11n20SISO	Ant6	2437	18.025	2427.9418	2445.9670	
11n20SISO	Ant6	2462	18.072	2452.8610	2470.9326	



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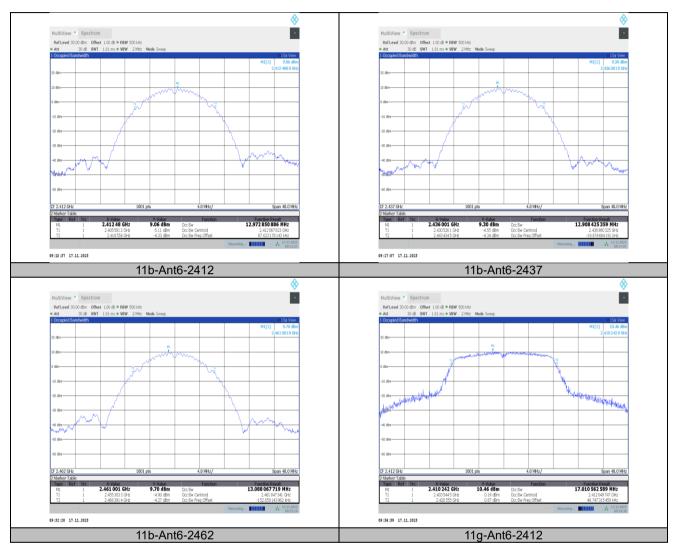
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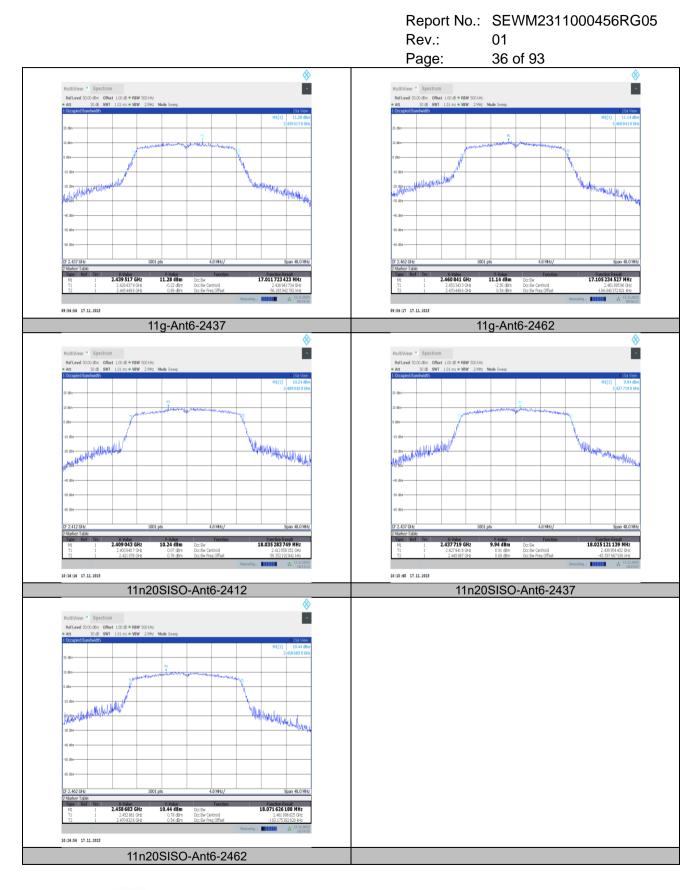


#### **Test Graphs**



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#### Maximum conducted output power Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant6	2412	19.27	≤30.00	PASS
11b	Ant6	2437	19.25	≤30.00	PASS
11b	Ant6	2462	19.52	≤30.00	PASS
11g	Ant6	2412	22.76	≤30.00	PASS
11g	Ant6	2437	22.63	≤30.00	PASS
11g	Ant6	2462	22.81	≤30.00	PASS
11n20SISO	Ant6	2412	23.22	≤30.00	PASS
11n20SISO	Ant6	2437	23.26	≤30.00	PASS
11n20SISO	Ant6	2462	23.32	≤30.00	PASS



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#### Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz] Result[dBm/3kHz]		Limit[dBm/3kHz]	Verdict
11b	Ant6	2412	-3.76	≤8.00	PASS
11b	Ant6	2437	-4.83	≤8.00	PASS
11b	Ant6	2462	-4.42	≤8.00	PASS
11g	Ant6	2412	-4.81	≤8.00	PASS
11g	Ant6	2437	-8.23	≤8.00	PASS
11g	Ant6	2462	-6.91	≤8.00	PASS
11n20SISO	Ant6	2412	-7.85	≤8.00	PASS
11n20SISO	Ant6	2437	-8.38	≤8.00	PASS
11n20SISO	Ant6	2462	-7.91	≤8.00	PASS



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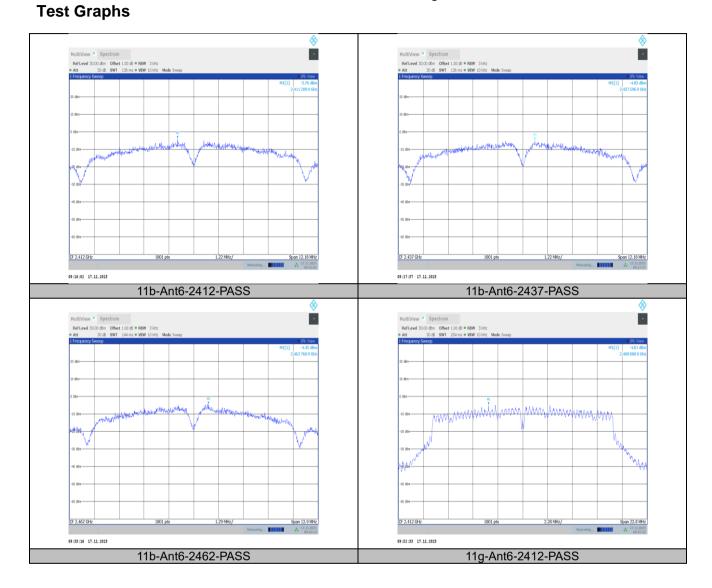
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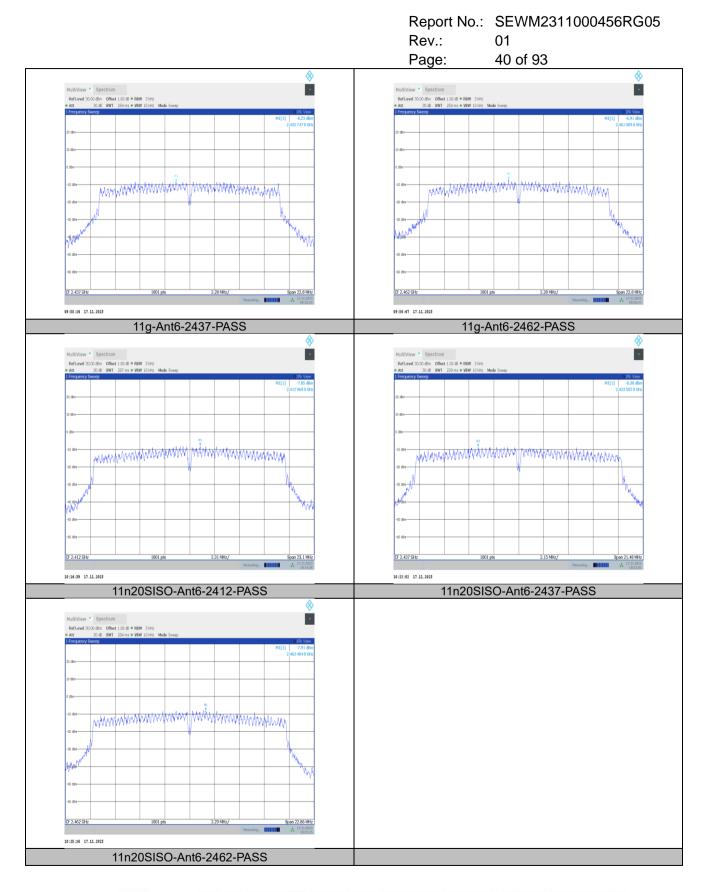
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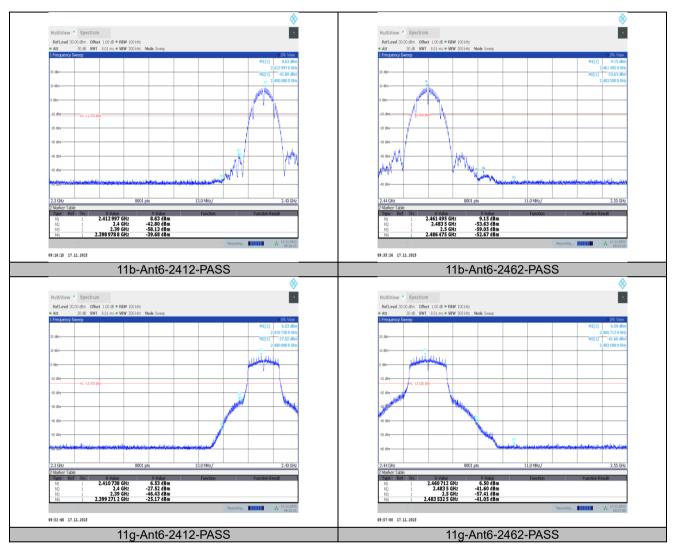
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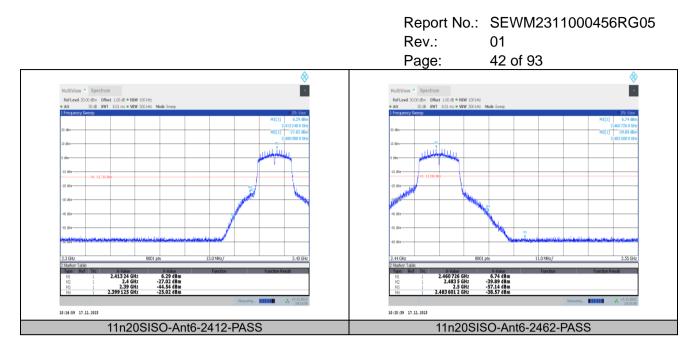


#### Band edge measurements Test Graphs



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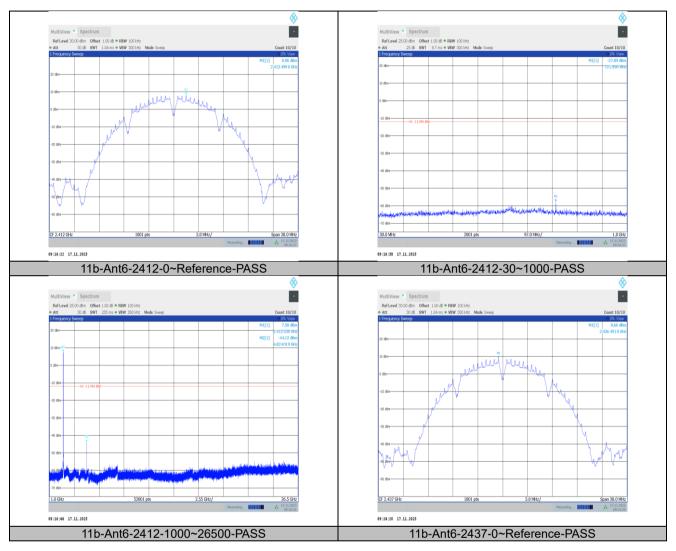
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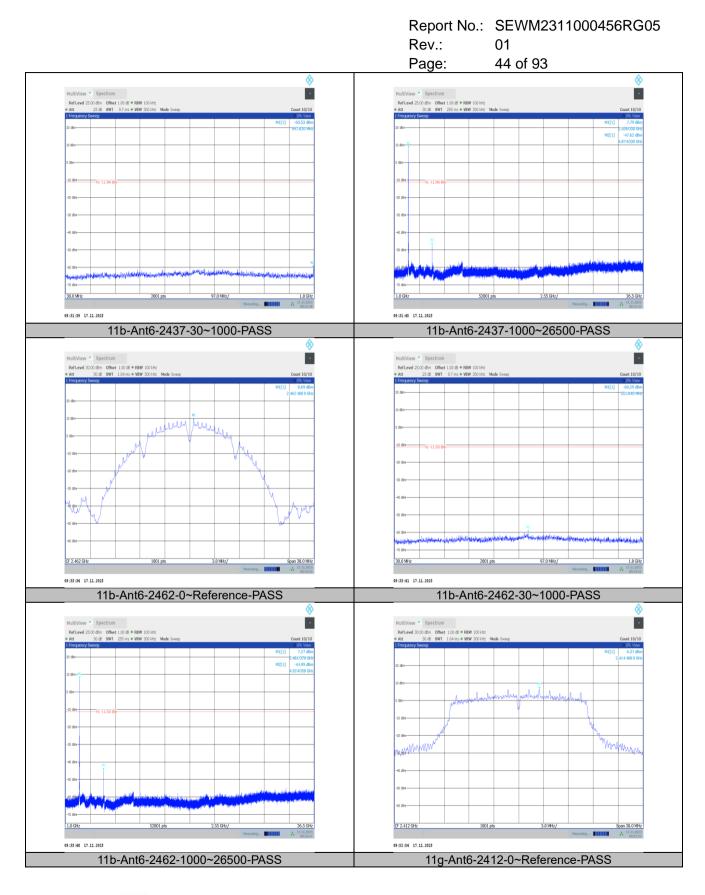
#### Conducted Spurious Emission Test Graphs





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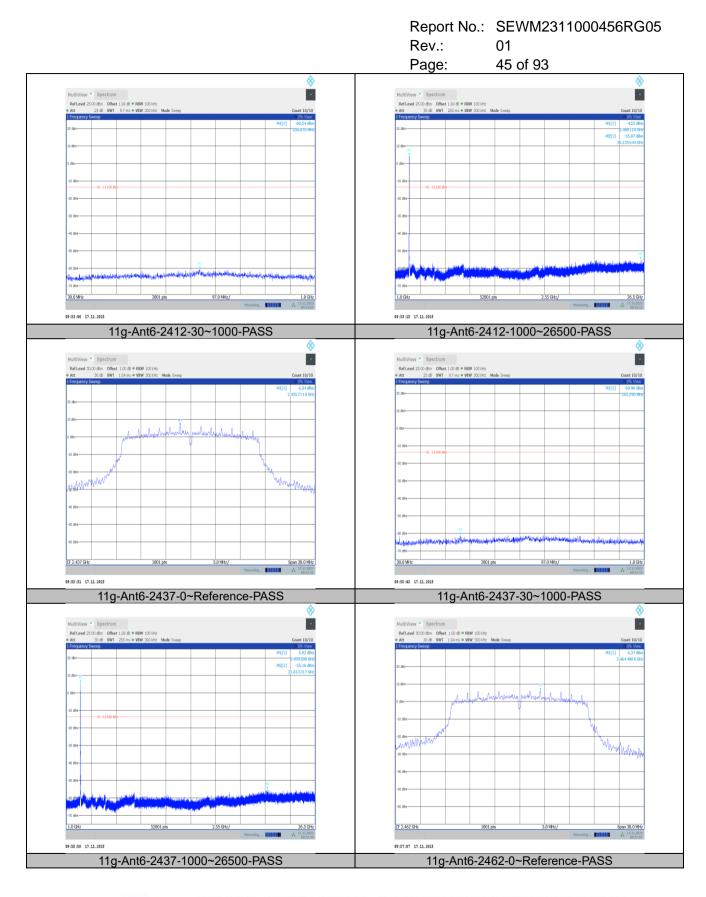
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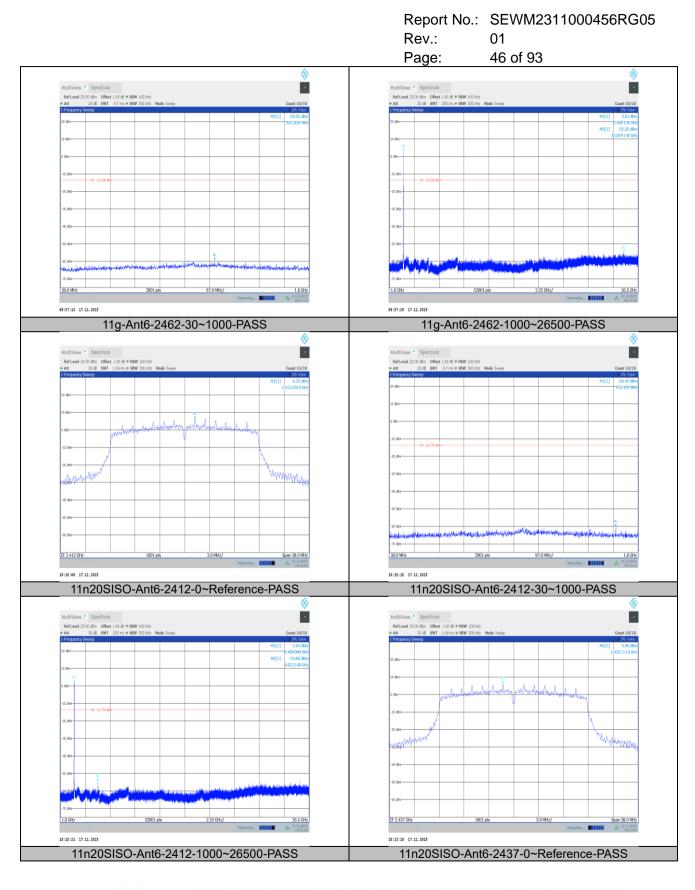
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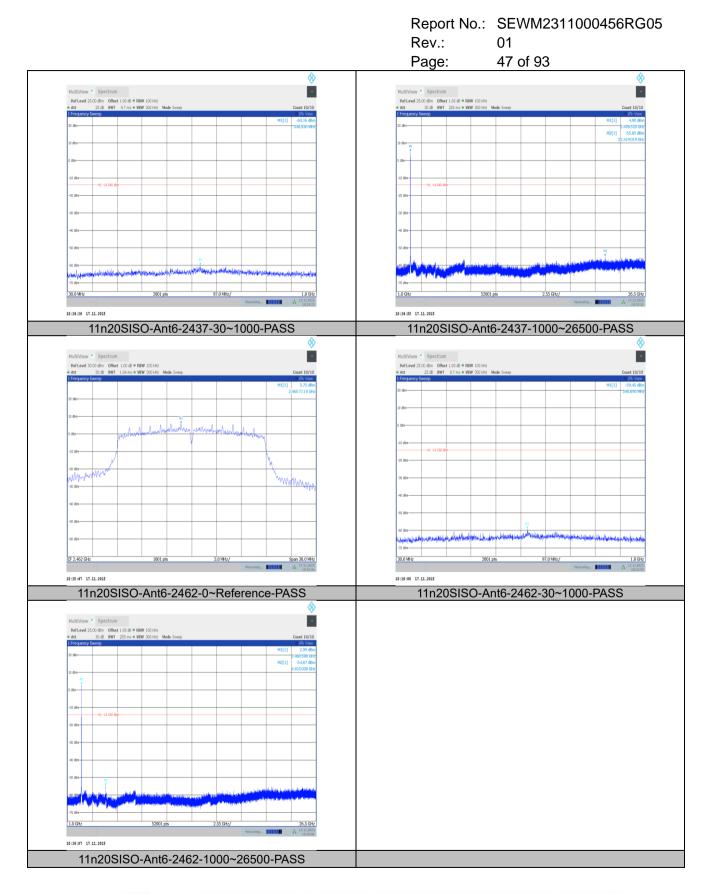
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#### Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant6	2412	8.39	8.42	99.64	0.02
11g	Ant6	2412	1.39	1.43	97.20	0.12
11n20SISO	Ant6	2412	1.30	1.34	97.01	0.13

Note:

#### Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.39	8.42	99.64	0.11919	10Hz*
11g	1.39	1.43	97.20	0.71942	0.75KHz
11n20SISO	1.30	1.34	97.01	0.76923	0.82KHz

\*Duty cycle > 98% VBW setting=10Hz



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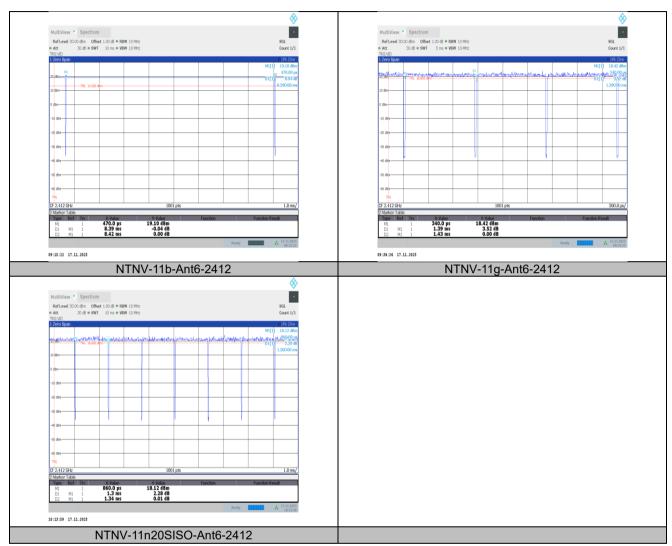
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#### **Test Graphs**



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 Report No.:
 SEWM2311000456RG05

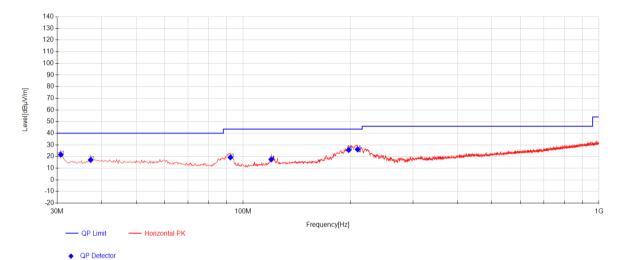
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### **Radiated Spurious Emissions**

#### Radiated emission below 1GHz

#### Worst case Mode: 802.11n20\_Channel 11

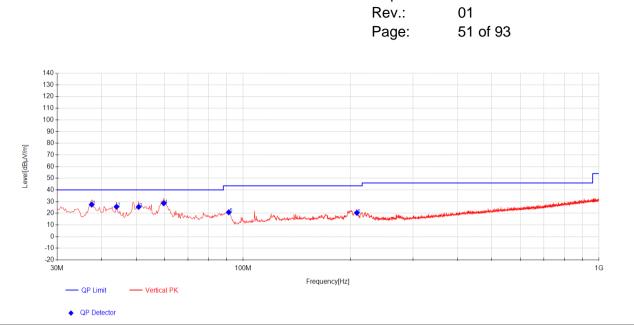


Data	a List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	30.7275	37.65	-34.01	17.99	21.63	40.00	18.37	Horizontal
2	37.275	32.05	-34.00	19.05	17.10	40.00	22.90	Horizontal
3	92.08	37.96	-33.55	14.87	19.28	43.50	24.22	Horizontal
4	119.9675	33.62	-33.34	17.30	17.58	43.50	25.92	Horizontal
5	198.0525	43.06	-32.74	15.33	25.65	43.50	17.85	Horizontal
6	209.6925	43.05	-32.62	15.73	26.16	43.50	17.34	Horizontal



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Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	37.5175	42.35	-34.00	19.10	27.46	40.00	12.54	Vertical
2	44.065	40.06	-33.99	19.50	25.57	40.00	14.43	Vertical
3	50.855	40.26	-33.97	19.17	25.46	40.00	14.54	Vertical
4	59.8275	43.63	-33.86	18.81	28.57	40.00	11.43	Vertical
5	91.11	39.65	-33.56	14.79	20.88	43.50	22.62	Vertical
6	208.7225	37.35	-32.63	15.68	20.40	43.50	23.10	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:

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

AF = Antenna Factor(dB/m)

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

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

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



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Report No.: SEWM2311000456RG05

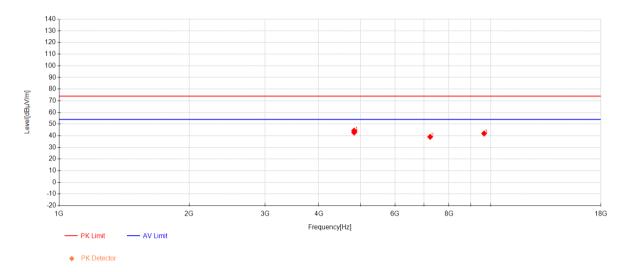
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#### **Transmitter emission Above 1GHz**

#### 802.11b\_Channel 01



Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4824	52.96	32.81	-41.43	44.34	74.00	29.66	Horizontal				
2	7236	40.55	36.28	-37.81	39.03	74.00	34.97	Horizontal				
3	9648	37.39	37.79	-33.26	41.92	74.00	32.08	Horizontal				
4	4824.5	51.37	32.81	-41.43	42.76	54.00	11.24	Horizontal				



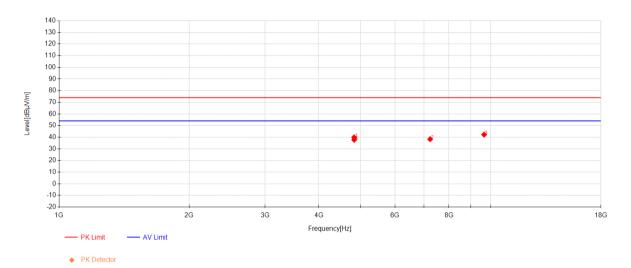
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#### 802.11b\_Channel 01

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4824	48.50	32.81	-41.43	39.88	74.00	34.12	Vertical				
2	7236	39.84	36.28	-37.81	38.32	74.00	35.68	Vertical				
3	9648	37.69	37.79	-33.26	42.22	74.00	31.78	Vertical				
4	4824.5	46.35	32.81	-41.43	37.74	54.00	16.26	Vertical				



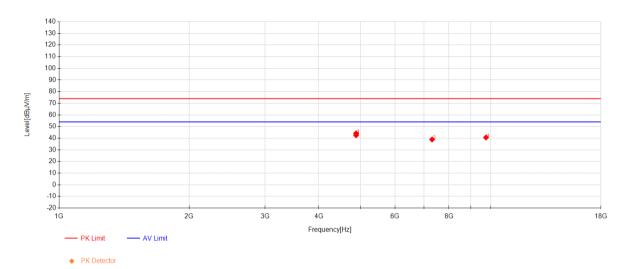
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#### 802.11b\_Channel 06

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874	52.51	32.92	-41.28	44.15	74.00	29.85	Horizontal			
2	7311	39.96	36.37	-37.42	38.91	74.00	35.09	Horizontal			
3	9748	35.88	37.82	-33.06	40.65	74.00	33.35	Horizontal			
4	4874.5	50.87	32.92	-41.28	42.52	54.00	11.48	Horizontal			



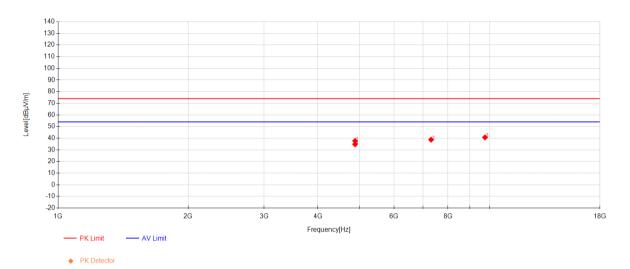
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#### 802.11b\_Channel 06

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4874	46.06	32.92	-41.28	37.70	74.00	36.30	Vertical				
2	7311	39.80	36.37	-37.42	38.75	74.00	35.25	Vertical				
3	9748	35.92	37.82	-33.06	40.69	74.00	33.31	Vertical				
4	4874.5	43.12	32.92	-41.28	34.77	54.00	19.23	Vertical				



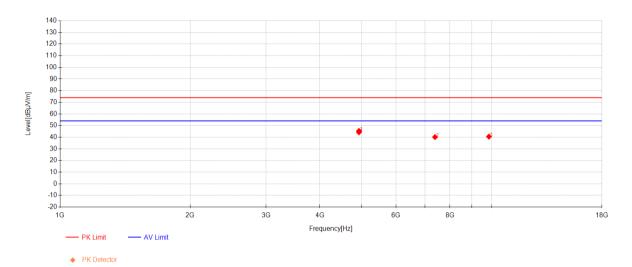
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#### 802.11b\_Channel 11

Data	Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity				
1	4924	53.59	33.03	-41.26	45.36	74.00	28.64	Horizontal				
2	7386	41.48	36.46	-37.82	40.13	74.00	33.87	Horizontal				
3	9848	35.51	37.85	-32.85	40.51	74.00	33.49	Horizontal				
4	4924.5	52.47	33.03	-41.27	44.24	54.00	9.76	Horizontal				



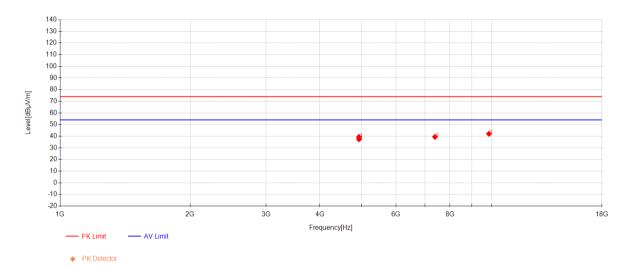
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#### 802.11b\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4924	47.64	33.03	-41.26	39.41	74.00	34.59	Vertical			
2	7386	40.78	36.46	-37.82	39.43	74.00	34.57	Vertical			
3	9848	37.06	37.85	-32.85	42.06	74.00	31.94	Vertical			
4	4924.5	45.58	33.03	-41.27	37.35	54.00	16.65	Vertical			



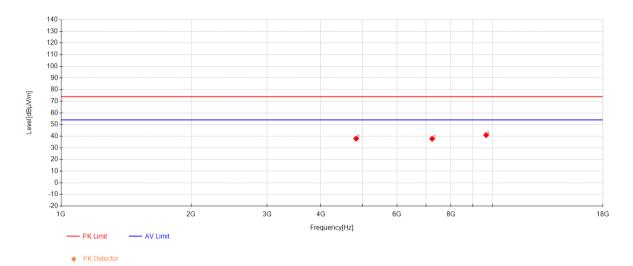
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### 802.11g\_Channel 01

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824	46.54	32.81	-41.43	37.92	74.00	36.08	Horizontal			
2	7236	39.33	36.28	-37.81	37.81	74.00	36.19	Horizontal			
3	9648	36.42	37.79	-33.26	40.95	74.00	33.05	Horizontal			



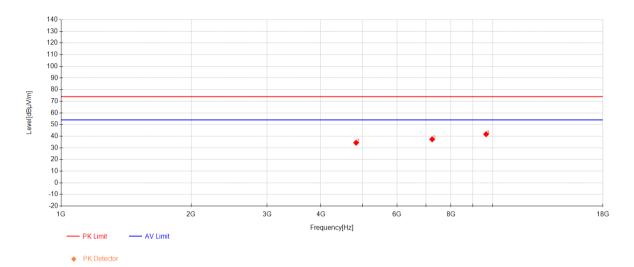
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#### 802.11g\_Channel 01

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824	43.02	32.81	-41.43	34.40	74.00	39.60	Vertical			
2	7236	38.87	36.28	-37.81	37.35	74.00	36.65	Vertical			
3	9648	37.21	37.79	-33.26	41.74	74.00	32.26	Vertical			



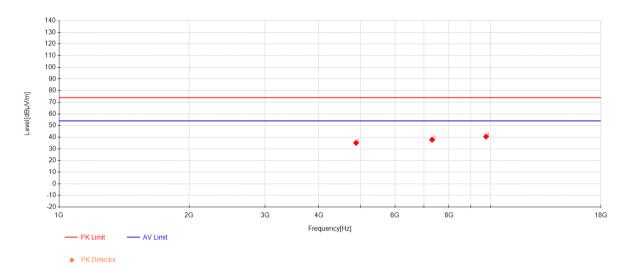
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#### 802.11g\_Channel 06

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874	43.52	32.92	-41.28	35.16	74.00	38.84	Horizontal			
2	7311	38.90	36.37	-37.42	37.85	74.00	36.15	Horizontal			
3	9748	35.72	37.82	-33.06	40.49	74.00	33.51	Horizontal			



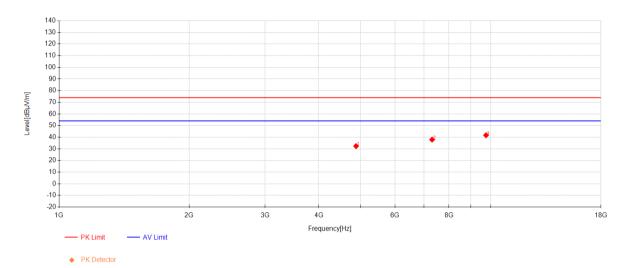
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#### 802.11g\_Channel 06

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874	40.72	32.92	-41.28	32.36	74.00	41.64	Vertical			
2	7311	38.99	36.37	-37.42	37.94	74.00	36.06	Vertical			
3	9748	36.93	37.82	-33.06	41.70	74.00	32.30	Vertical			



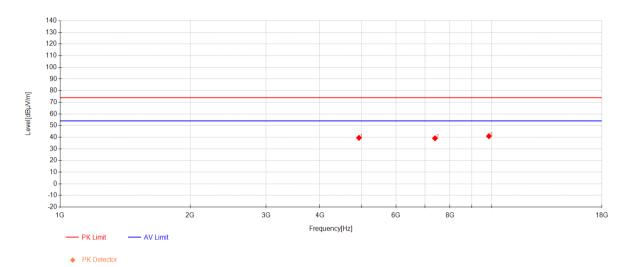
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#### 802.11g\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4924	47.71	33.03	-41.26	39.48	74.00	34.52	Horizontal			
2	7386	40.43	36.46	-37.82	39.08	74.00	34.92	Horizontal			
3	9848	35.90	37.85	-32.85	40.90	74.00	33.10	Horizontal			



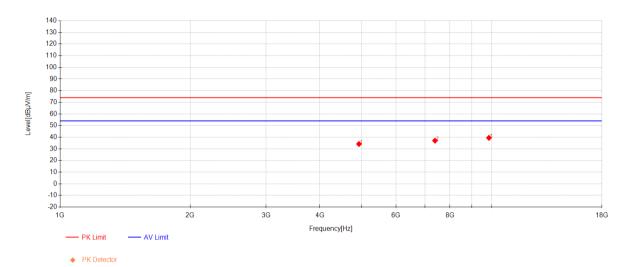
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#### 802.11g\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4924	42.41	33.03	-41.26	34.18	74.00	39.82	Vertical			
2	7386	38.42	36.46	-37.82	37.07	74.00	36.93	Vertical			
3	9848	34.45	37.85	-32.85	39.45	74.00	34.55	Vertical			



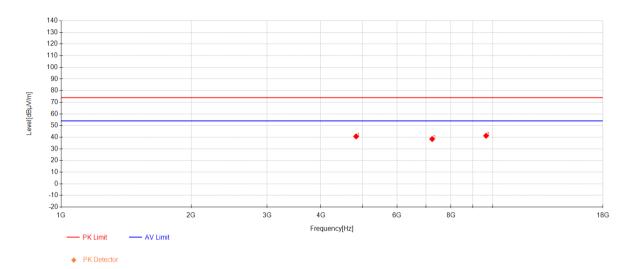
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### 802.11n20\_Channel 01

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824	49.28	32.81	-41.43	40.66	74.00	33.34	Horizontal			
2	7236	39.96	36.28	-37.81	38.44	74.00	35.56	Horizontal			
3	9648	36.71	37.79	-33.26	41.24	74.00	32.76	Horizontal			



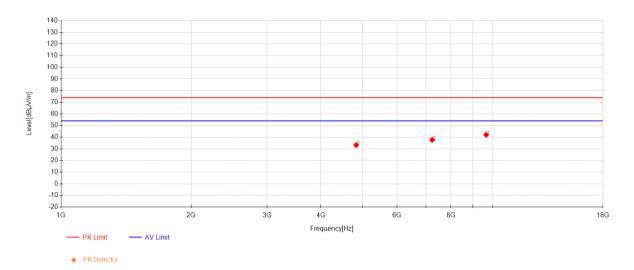
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#### 802.11n20\_Channel 01

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824	41.93	32.81	-41.43	33.31	74.00	40.69	Vertical			
2	7236	39.19	36.28	-37.81	37.67	74.00	36.33	Vertical			
3	9648	37.53	37.79	-33.26	42.06	74.00	31.94	Vertical			



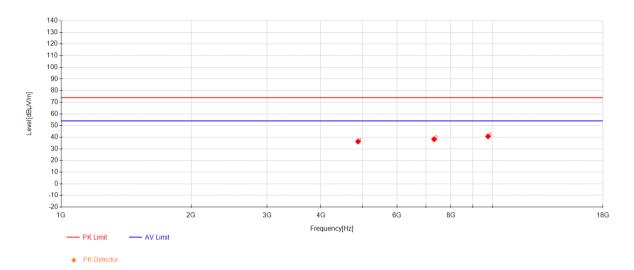
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#### 802.11n20\_Channel 06

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874	44.66	32.92	-41.28	36.30	74.00	37.70	Horizontal			
2	7311	39.32	36.37	-37.42	38.27	74.00	35.73	Horizontal			
3	9748	35.92	37.82	-33.06	40.69	74.00	33.31	Horizontal			



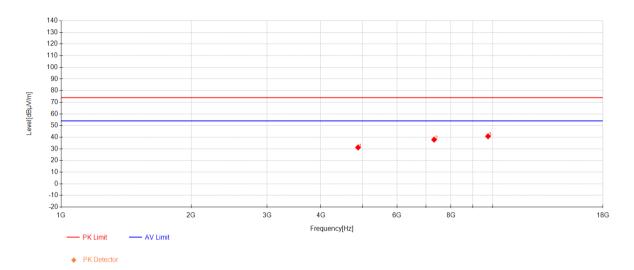
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#### 802.11n20\_Channel 06

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874	39.60	32.92	-41.28	31.24	74.00	42.76	Vertical			
2	7311	38.96	36.37	-37.42	37.91	74.00	36.09	Vertical			
3	9748	36.04	37.82	-33.06	40.81	74.00	33.19	Vertical			



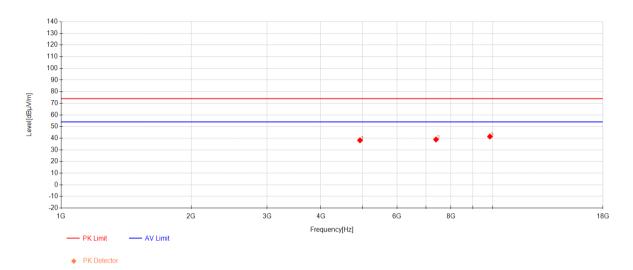
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### 802.11n20\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4924	46.43	33.03	-41.26	38.20	74.00	35.80	Horizontal			
2	7386	40.24	36.46	-37.82	38.89	74.00	35.11	Horizontal			
3	9848	36.44	37.85	-32.85	41.44	74.00	32.56	Horizontal			



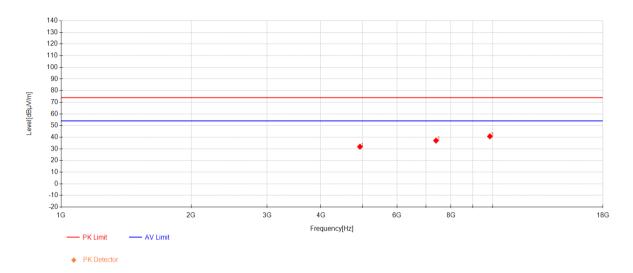
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#### 802.11n20\_Channel 11

Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4924	40.07	33.03	-41.26	31.84	74.00	42.16	Vertical	
2	7386	38.44	36.46	-37.82	37.09	74.00	36.91	Vertical	
3	9848	35.77	37.85	-32.85	40.77	74.00	33.23	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( $dB\mu V/m$ ) – Level( $dB\mu V/m$ )

- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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1	estination in the test report reiser only to the sample() tested and such sample(), are retained to 50 days only.
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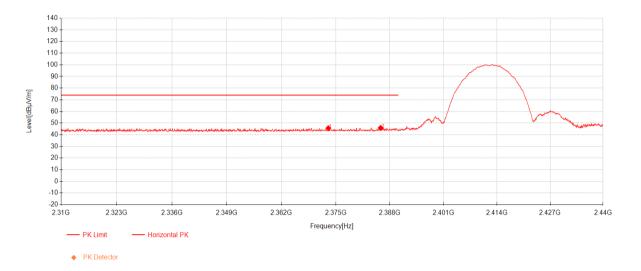
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### **Restricted bands around fundamental frequency**

#### 802.11b\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2373.2125	40.91	27.12	-22.44	45.59	74.00	28.41	Horizontal	
2	2385.79	41.10	27.15	-22.41	45.84	74.00	28.16	Horizontal	



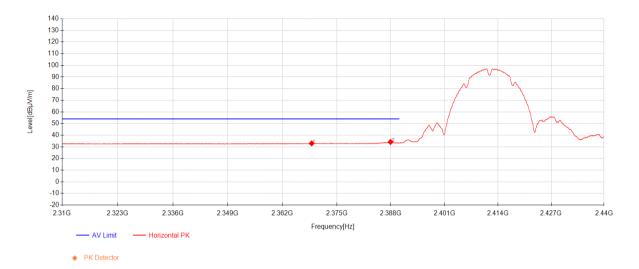
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#### 802.11b\_Channel 01

Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2368.9875	28.35	27.11	-22.45	33.01	54.00	20.99	Horizontal	
2	2387.935	29.45	27.15	-22.40	34.20	54.00	19.80	Horizontal	



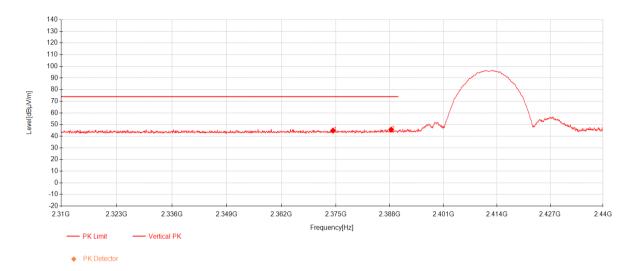
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Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2374.35	40.14	27.12	-22.44	44.83	74.00	29.17	Vertical	
2	2388.325	40.93	27.15	-22.40	45.68	74.00	28.32	Vertical	



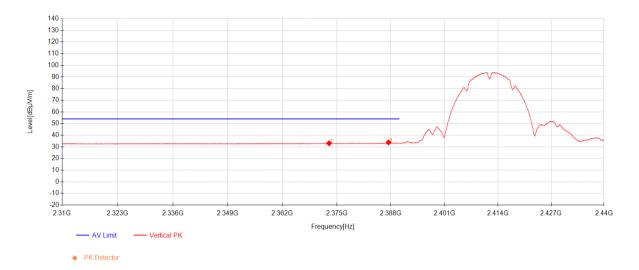
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2373.1475	28.42	27.12	-22.44	33.10	54.00	20.90	Vertical		
2	2387.4475	29.05	27.15	-22.40	33.80	54.00	20.20	Vertical		



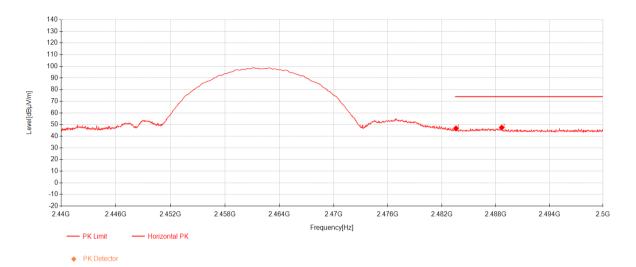
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2483.575	41.61	27.36	-22.29	46.68	74.00	27.32	Horizontal		
2	2488.675	42.29	27.38	-22.29	47.37	74.00	26.63	Horizontal		



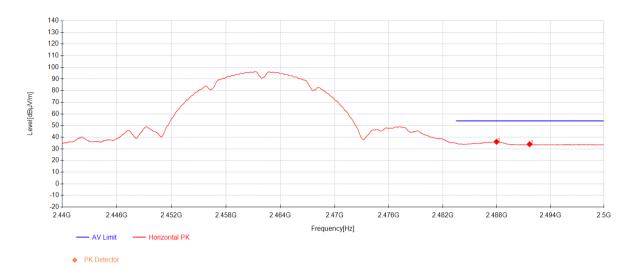
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#### 802.11b\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2487.985	31.04	27.37	-22.29	36.12	54.00	17.88	Horizontal			
2	2491.675	28.92	27.38	-22.29	34.01	54.00	19.99	Horizontal			



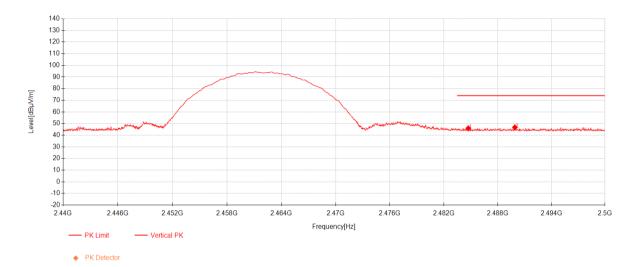
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### 802.11b\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.73	40.84	27.37	-22.29	45.91	74.00	28.09	Vertical			
2	2489.92	41.61	27.38	-22.29	46.70	74.00	27.30	Vertical			



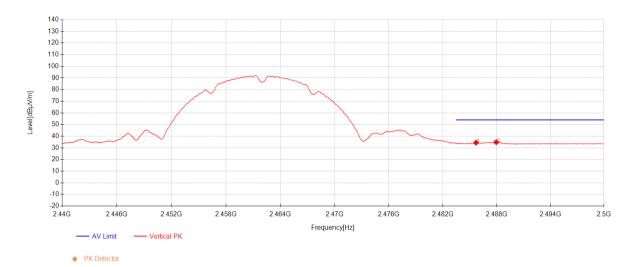
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#### 802.11b\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2485.705	29.39	27.37	-22.29	34.47	54.00	19.53	Vertical			
2	2487.955	29.75	27.37	-22.29	34.83	54.00	19.17	Vertical			



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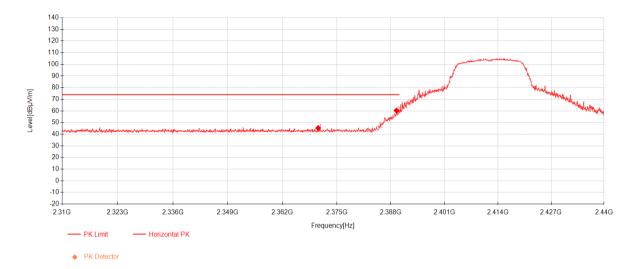
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### 802.11g\_Channel 01

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2370.5475	40.60	27.12	-22.45	45.27	74.00	28.73	Horizontal			
2	2389.365	55.53	27.16	-22.40	60.29	74.00	13.71	Horizontal			



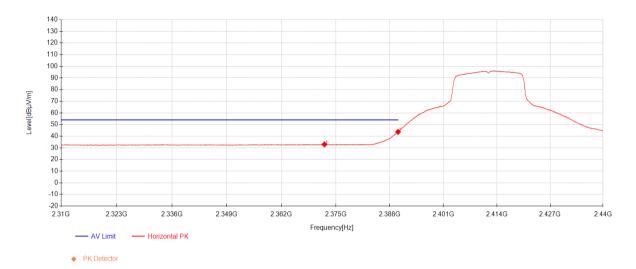
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### 802.11g\_Channel 01

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2372.3025	28.31	27.12	-22.44	32.99	54.00	21.01	Horizontal			
2	2389.9825	38.94	27.16	-22.40	43.70	54.00	10.30	Horizontal			



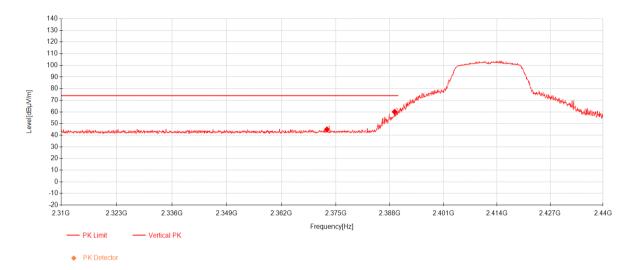
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### 802.11g\_Channel 01

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2372.8875	40.31	27.12	-22.44	44.99	74.00	29.01	Vertical			
2	2389.17	55.32	27.16	-22.40	60.08	74.00	13.92	Vertical			



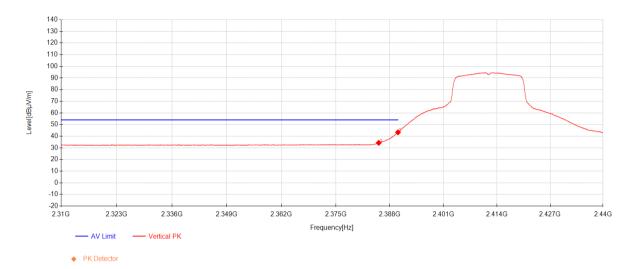
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Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2385.335	29.56	27.15	-22.41	34.30	54.00	19.70	Vertical			
2	2389.9825	38.58	27.16	-22.40	43.34	54.00	10.66	Vertical			



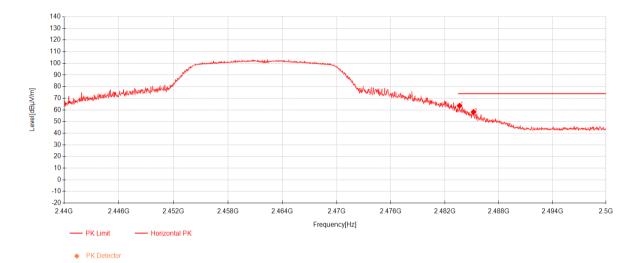
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### 802.11g\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.635	58.50	27.36	-22.29	63.57	74.00	10.43	Horizontal			
2	2485.195	53.13	27.37	-22.29	58.20	74.00	15.80	Horizontal			



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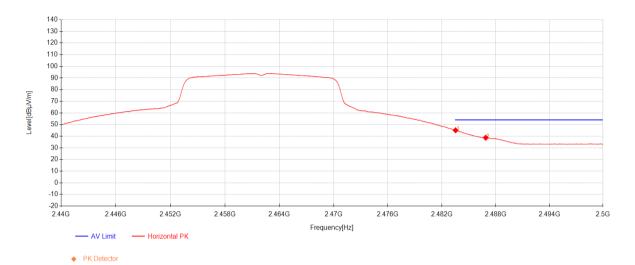
South of No. 6 Plant, No. 1, Runsheng Road, Suchou Industrial Park, Suchou Area, China (Jangsai) Plat Free Trade Zone 215000 t (86-512 中国 - 苏州 - 中国 (江苏) 自由貿易減量区苏州片区苏州工业局区消胜路1号約6月7 房南部 卸線: 215000 t (86-512

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### 802.11g\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.53	40.03	27.36	-22.29	45.10	54.00	8.90	Horizontal			
2	2486.89	33.64	27.37	-22.29	38.72	54.00	15.28	Horizontal			



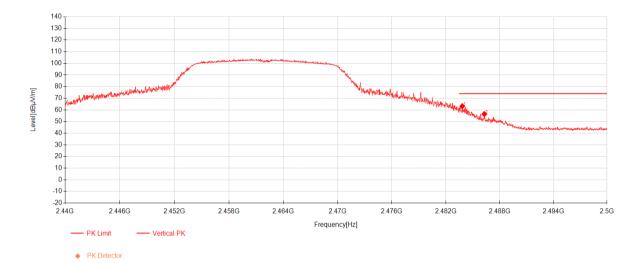
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### 802.11g\_Channel 11

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2483.83	58.13	27.36	-22.29	63.20	74.00	10.80	Vertical			
2	2486.29	51.36	27.37	-22.29	56.44	74.00	17.56	Vertical			



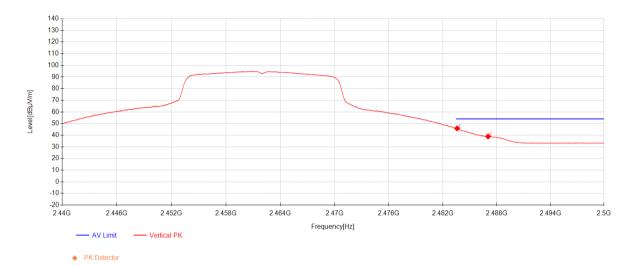
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### 802.11g\_Channel 11

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.59	40.75	27.36	-22.29	45.82	54.00	8.18	Vertical
2	2487.04	33.84	27.37	-22.29	38.92	54.00	15.08	Vertical



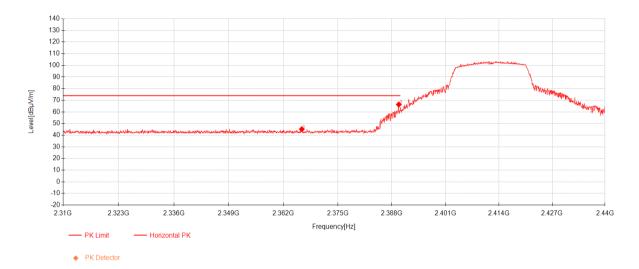
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### 802.11n20\_Channel 01

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2366.3875	40.51	27.11	-22.46	45.16	74.00	28.84	Horizontal
2	2389.69	61.58	27.16	-22.40	66.34	74.00	7.66	Horizontal



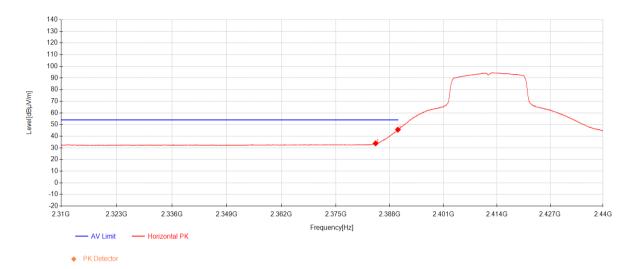
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#### 802.11n20\_Channel 01

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2384.5875	29.12	27.15	-22.41	33.86	54.00	20.14	Horizontal
2	2389.95	40.85	27.16	-22.40	45.61	54.00	8.39	Horizontal



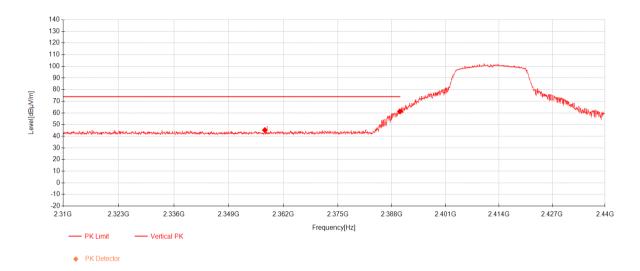
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2357.58	40.62	27.09	-22.48	45.23	74.00	28.77	Vertical
2	2389.95	56.52	27.16	-22.40	61.28	74.00	12.72	Vertical



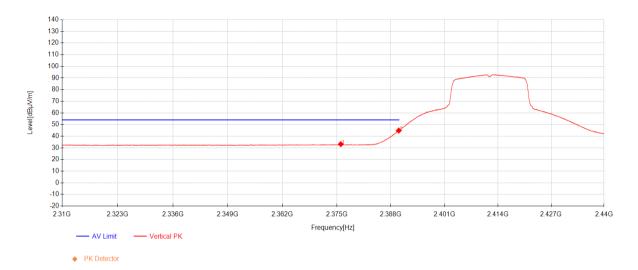
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2375.975	28.51	27.13	-22.43	33.20	54.00	20.80	Vertical
2	2389.9175	40.07	27.16	-22.40	44.83	54.00	9.17	Vertical



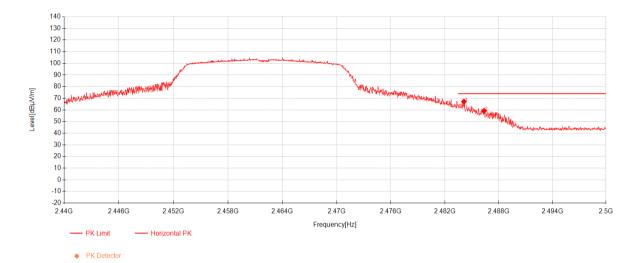
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#### 802.11n20\_Channel 11

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2484.13	62.09	27.37	-22.29	67.16	74.00	6.84	Horizontal
2	2486.38	54.12	27.37	-22.29	59.20	74.00	14.80	Horizontal



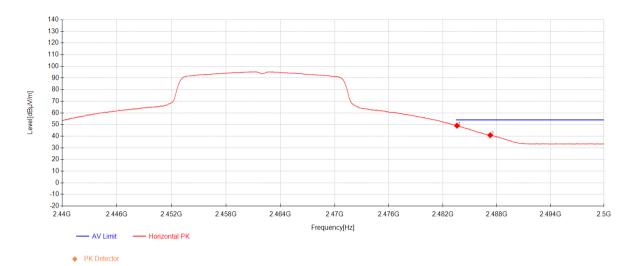
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#### 802.11n20\_Channel 11

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.575	43.98	27.36	-22.29	49.05	54.00	4.95	Horizontal
2	2487.28	35.77	27.37	-22.29	40.85	54.00	13.15	Horizontal



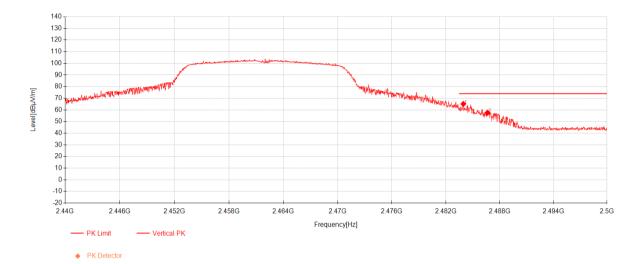
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#### 802.11n20\_Channel 11

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.95	60.10	27.36	-22.29	65.17	74.00	8.83	Vertical
2	2486.65	52.56	27.37	-22.29	57.64	74.00	16.36	Vertical



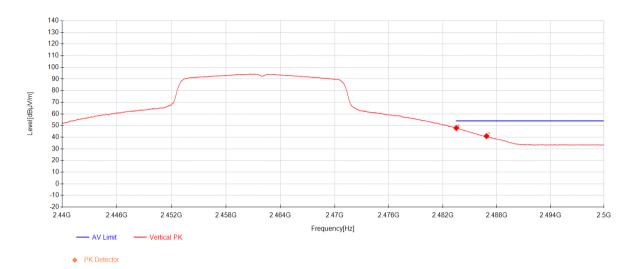
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### 802.11n20\_Channel 11

Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.5	42.81	27.36	-22.29	47.88	54.00	6.12	Vertical
2	2486.86	35.81	27.37	-22.29	40.89	54.00	13.11	Vertical

Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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

---End of Report---



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