

OFFICIAL TEST REPORT

RF

CLASS II PERMISSIVE CHANGE

Report No. ER/2015/40053

Standards : FCC Part 15.247, Cat: DTS
KDB558074 D01 V03

Canada RSS-210: issue 8, Annex 8

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Applicant : Sony Computer Entertainment Inc.
1-7-1 Konan, Minato-ku, Tokyo 108-0075 Japan

Product Name: PlayStation(R) Vita, PlayStation(R) Vita Testing Kit

Brand Name: SONY

Model No.: PCH-2001. PTEL-2004

Model Difference: Please refer to page 6 for more detail

Date of test: Apr. 13, 2015 ~ Apr. 22, 2015

Date of EUT Received: Apr. 13, 2015

Test By:

Marcus Tseng

Date:

Apr. 27, 2015

Marcus Tseng / Engineer

Prepared By:

Tiffany Kao

Date:

Apr. 27, 2015

Tiffany Kao / Clerk

Approved
By:

Jim Chang

Date:

Apr. 27, 2015

Jim Chang / Asst. Manager



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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/40053	Rev.00	Initial creation of document	Apr. 27, 2015

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Table of Contents

1. GENERAL INFORMATION.....	5
1.1. Testing Laboratory	5
1.2. Product Description.....	6
1.3. Related Submittal(s) / Grant (s)	8
1.4. Test Methodology.....	8
1.5. Test Facility	8
1.6. Special Accessories	8
1.7. Equipment Modifications.....	8
2. SYSTEM TEST CONFIGURATION.....	9
2.1. EUT Configuration.....	9
2.2. EUT Exercise	9
2.3. Test Procedure.....	9
2.4. Configuration of Tested System	10
3. SUMMARY OF TEST RESULTS.....	11
4. DESCRIPTION OF TEST MODES.....	11
5. MEASUREMENT UNCERTAINTY	12
6. PEAK OUTPUT POWER MEASUREMENT	13
6.1. Standard Applicable:	13
6.2. Measurement Equipment Used:	14
6.3. Test Set-up:.....	14
6.4. Measurement Procedure:.....	15
6.5. Measurement Result:.....	19
7. BAND EDGES MEASUREMENT	22
7.1. Standard Applicable:	22
7.2. Measurement Equipment Used:	23
7.3. Test SET-UP:.....	24
7.4. Measurement Procedure:.....	25
7.5. Field Strength Calculation:.....	26
7.6. Measurement Result:.....	26
8. SPURIOUS RADIATED EMISSION TEST	33
8.1. Standard Applicable:	33
8.2. Measurement Equipment Used:	34
8.3. Test SET-UP:.....	34

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8.4.	Measurement Procedure:.....	34
8.5.	Field Strength Calculation:.....	35
8.6.	Measurement Result:.....	35
9.	ANTENNA REQUIREMENT.....	60
9.1.	Standard Applicable:	60
9.2.	Antenna Connected Construction:	60

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1. GENERAL INFORMATION

1.1. Testing Laboratory

Identification of the Responsible Test Laboratory

Test Lab	SGS Taiwan Ltd. Mobile Communication Laboratory
Address	No.134, Wu Kung Road, Wuku Industrial Zone, Wuku District, New Taipei City, Taiwan 24803
Tel	+886-(0)2-22993279
Fax	+886-(0)2-22980488
Website	http://www.tw.sgs.com

Details of Applicant

Applicant's Name	Sony Computer Entertainment Inc.
Applicant's Address	1-7-1 Konan, Minato-ku, Tokyo 108-0075 Japan
Contact Person	Kiyoto Sasaki
Tel	+81-3-6748-6333
Fax	+81-3-6748-6383
E-mail	Kiyoto_Sasaki@hq.scei.sony.co.jp

Details of Manufacturer

Manufacturer's Name	Sony Computer Entertainment Inc.
Manufacturer's Address	1-7-1 Konan, Minato-ku, Tokyo 108-0075 Japan
Contact Person	Kiyoto Sasaki
Tel	+81-3-6748-6333
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1.2. Product Description

General:

Product Name:	PlayStation(R) Vita, PlayStation(R) Vita Testing Kit	
Brand Name:	SONY	
Model No.:	PCH-2001, PTEL-2004	
Earphone:	Model No.: PCH-ZHS1G, Supplier: Goertek	
USB Cable:	Model No.: N/A, Supplier: LUXSHARE	
Hardware Version:	2.2	
Software Version:	3.50	
Serial No.:	6000109 6000027	
Scope:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.	
Class II Permissive change:	Antenna and non-transmitter circuit changed from the original device.	
Power Supply:	3.7Vdc from battery or 5Vdc by AC/DC power adapter.	
	Battery:	Model No.: SP86R, Supplier: SONY
	Adapter :	1. Model No.: ADP-8AR A, Supplier: Delta 2. Model No.: ADP-708SR, Supplier: MITSUMI
	LAN Adaptor:	Model No.: PTEL-UE100, Supplier: Foxconn
Power Cord:	1. Model No.: N/A, Supplier: I-Sheng 2. Model No.: N/A, Supplier: Hirakawa-Hewtech	

Model Difference:

Product Name	Model No.	Accessory
PlayStation(R) Vita	PCH-2001	1. USB Cable 2. Power Cord 3. AC Adapter
PlayStation(R) Vita Testing Kit	PTEL-2004	1. USB Cable 2. Power Cord 3. AC Adapter 4. LAN Adaptor

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WLAN:

Frequency Range & Channel Number:	802.11 b/g: 2412-2462MHz, 11 channels 802.11 n_20MHz: 2412-2462MHz, 11 channels
Rated Power:	802.11 b: 12.44dBm (Peak) 802.11 g: 19.59dBm (Peak) 802.11 n_20MHz: 18.63dBm (Peak)
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5-72.2Mbps
Antenna Designation:	Mono-pole Antenna, 2.52dBi

This report applies for WLAN, and complies with FCC rule part 15C.

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1.3. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: AK8PCH2001** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. And **IC: 409B-PCH2001** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 8. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.4. Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 2013 and RSS-Gen: issue 4 2014. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with Apr 2013 KDB558074 D01 V03 for compliance to FCC 47CFR 15.247 requirements.

1.5. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number are: 990257, Canada Registration Number: 4620A-5.

1.6. Special Accessories

There are no special accessories used while test was conducted.

1.7. Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the general criterion in Section 7.1 of ANSI C63.10:2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz, and the measurement procedure 7.3 in ANSI 63.10:2013 & 6.2.2, is followed to carry out the test. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and of ANSI C63.10:2013, & Section 6.3, 6.4, 6.5.

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2.4. Configuration of Tested System

Fig. 2-1 Conducted (Antenna Port) and Radiated Emission Configuration

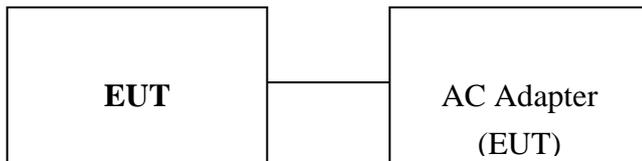


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	WLAN Software	N/A	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC / IC Rules	Description Of Test	Result
§15.247(b) (3),(b)(4) RSS-210 issue 8, §A8.4(4)	Peak Output Power	Compliant
§15.247(d) RSS-Gen §8.9 RSS-210 issue 8, §A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(d) RSS-210 §A8.5	Spurious Emission	Compliant
§15.203 RSS- Gen §6.7	Antenna Requirement	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

802.11 b mode: Channel low (2412MHz), mid (2437MHz) and high (2462MHz) with 1Mbps lowest data rate are chosen for full testing.

802.11 g mode: Channel low (2412MHz), mid (2437MHz) and high (2462MHz) with 6Mbps lowest data rate are chosen for full testing.

802.11 n mode: Channel low (2412MHz), mid (2437MHz) and high (2462MHz) with 6.5Mbps, 26Mbps, 13Mbps respectively, are chosen for full testing.

The worst case is determined by the output power that generates the highest emission. As examined in the section of output power measurement, the section 7.5, the lowest data rate at b/g/n_HT20/n results the highest level of fundamental emission, and therefore, the data rate that produced the highest emission level is chosen as the worst-case to conduct the remaining of other mandatory test cases.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case H position was reported.

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.55 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. PEAK OUTPUT POWER MEASUREMENT

6.1. Standard Applicable:

According to §15.247 (b)

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) 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.

According to RSS-210 issue 8, §A8.4(4), for systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

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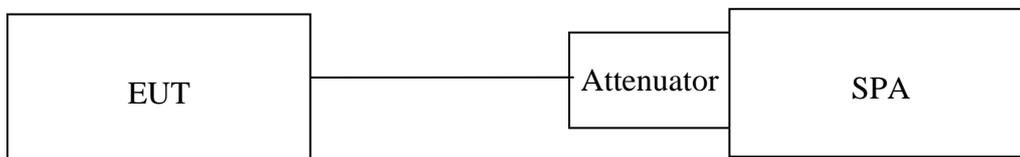
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6.2. Measurement Equipment Used:

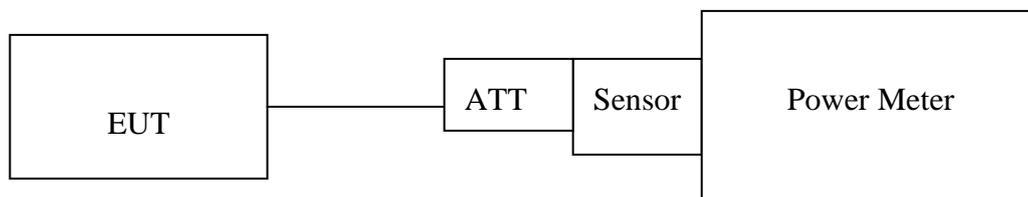
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/20/2014	12/19/2015
Power Sensor	Anritsu	MA2411B	917032	12/20/2014	12/19/2015
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/02/2015	01/01/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/12/2015	03/11/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016

6.3. Test Set-up:

Spectrum:



Power Meter:



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6.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (**Peak power setting on Spectrum:** Channel power function, RBW = 1MHz, VBW = 3MHz, Span: 30/60MHz, Detector =peak, Sweep = Auto. Setting on spectrum is adjusted based on the mandatory procedure in 9.1.2 of the KDB558074). Power Meter is used as the auxiliary test equipment to conduct the output power measurement. 9.1.3 in KDB558074 is followed. (**Avg. power setting on Spectrum:** Channel power function, RBW = 1MHz, VBW = 3MHz, Span: 30/60MHz, Detector =Avg., Trace avg =100, Sweep = Auto, Setting on spectrum is adjusted based on the mandatory procedure in 9.2.2.4 of the KDB558074). Power Meter is used as the auxiliary test equipment to conduct the output power measurement. 9.2.3, option 3 in KDB558074 is followed.
3. Record the max. Reading as observed from Spectrum or Power Meter.
4. Repeat above procedures until all default test channel measured was complete.

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Pre-analysis Check: While conducting average power measurement, duty cycle of each mode (n_ht20) shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones $b = 99%$, $g = 99%$, and $n_ht_20 = 99%$, where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Test Procedure:

Set span = 0, RBW = 1MHz, VBW = 3MHz, Detector = Peak

Duty Cycle:

	Duty Cycle
802.11b	0.99
802.11g	0.99
802.11n_20	0.99

$$\text{Duty Cycle Factor: } 10 * \log (1/0.99) = 0.04$$

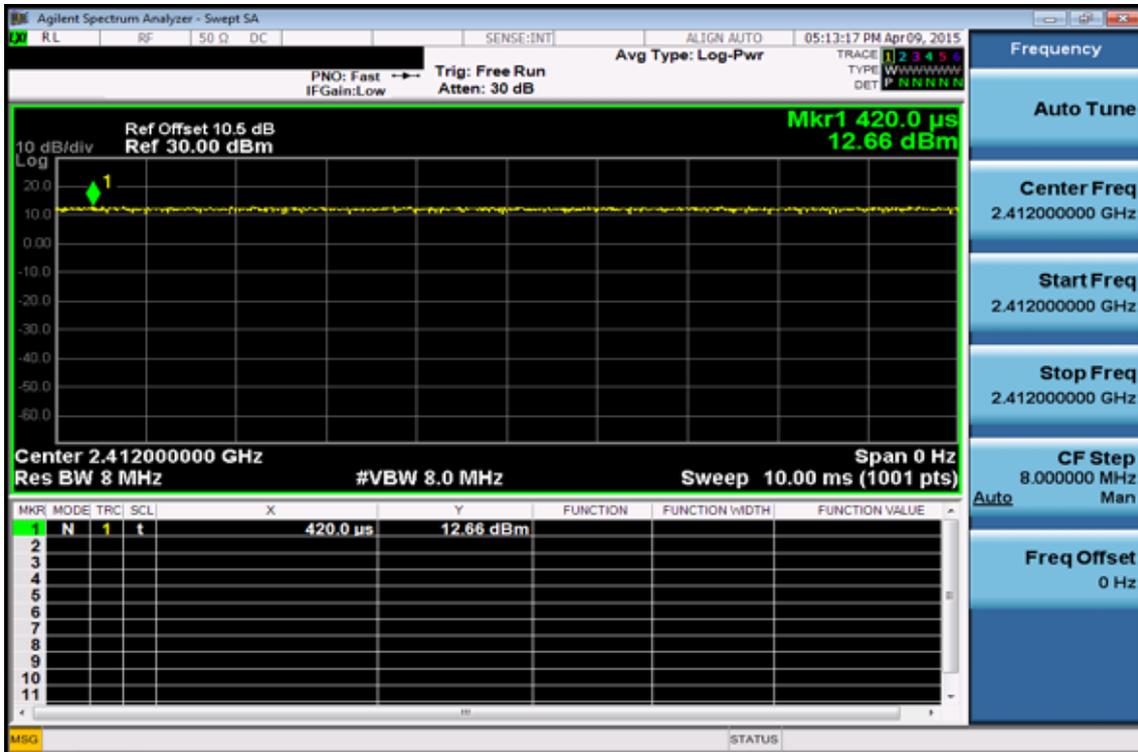
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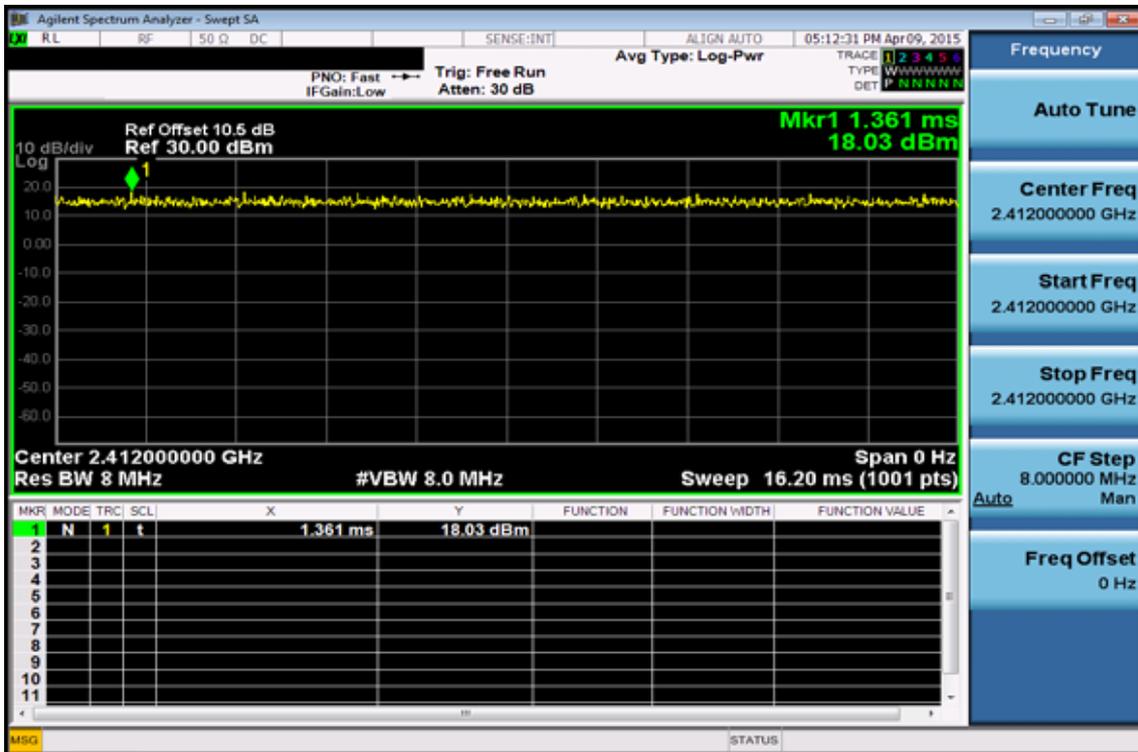
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Duty Factor:

802.11 b



802.11 g

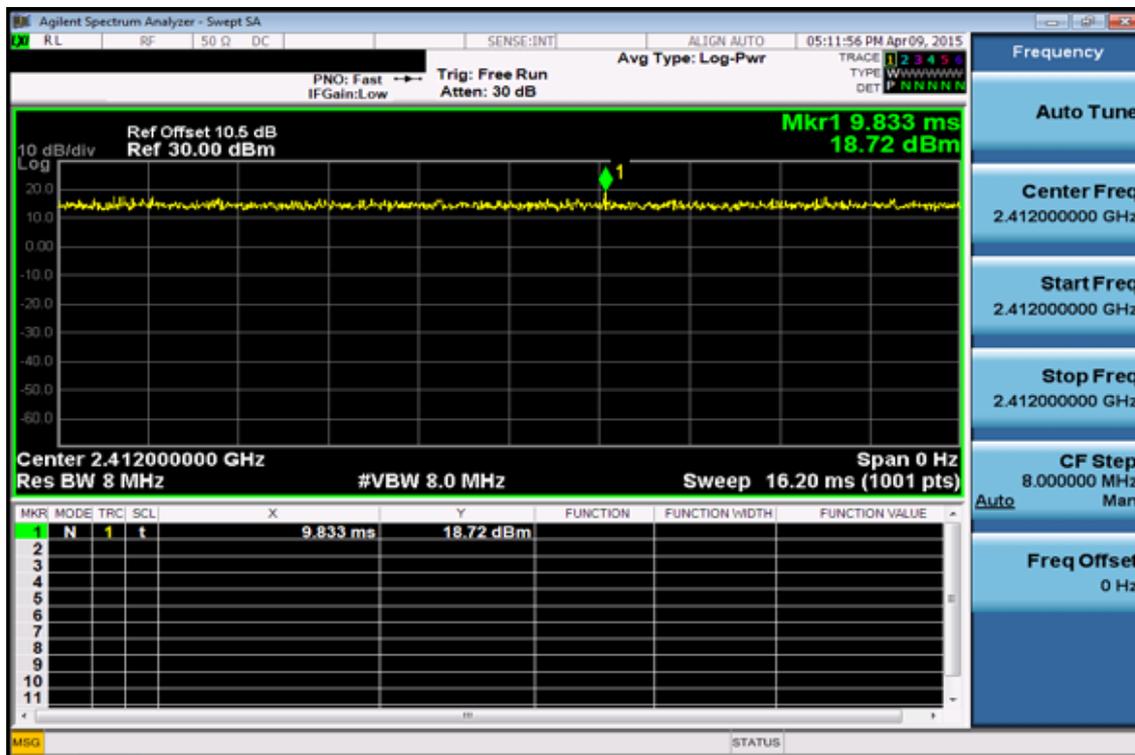


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802.11 n_20 MHz



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6.5. Measurement Result:

802.11b

Cable loss = 0		Peak Power Output (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	11.92	11.88	11.82	11.74	1 Watt = 30 dBm
6	2437	12.44	12.38	12.33	12.31	1 Watt = 30 dBm
11	2462	12.14	12.10	12.05	12.03	1 Watt = 30 dBm

Cable loss = 0		Average Power Output (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	10.00	9.96	9.91	9.88	1 Watt = 30 dBm
6	2437	9.93	9.87	9.85	9.82	1 Watt = 30 dBm
11	2462	9.62	9.55	9.53	9.49	1 Watt = 30 dBm

802.11g

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	18.63	18.60	18.55	18.53	18.52	18.49	18.46	18.41	1 Watt = 30 dBm
6	2437	19.21	19.18	19.15	19.06	19.02	19.00	18.95	18.91	1 Watt = 30 dBm
11	2462	19.59	19.55	19.52	19.47	19.41	19.40	19.36	19.33	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	9.99	9.97	9.96	9.91	9.86	9.84	9.79	9.72	1 Watt = 30 dBm
6	2437	9.86	9.85	9.81	9.77	9.74	9.66	9.65	9.61	1 Watt = 30 dBm
11	2462	9.54	9.50	9.47	9.41	9.36	9.34	9.33	9.28	1 Watt = 30 dBm

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802.11n_20M

Cable loss = 0		Peak Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	18.22	18.20	18.18	18.14	18.08	18.00	17.92	17.84	1 Watt = 30 dBm
6	2437	18.60	18.55	18.52	18.46	18.41	18.40	18.36	18.31	1 Watt = 30 dBm
11	2462	18.63	18.60	18.56	18.49	18.42	18.40	18.37	18.35	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	9.88	9.85	9.82	9.77	9.76	9.71	9.66	9.58	1 Watt = 30 dBm
6	2437	9.81	9.78	9.75	9.74	9.72	9.66	9.61	9.57	1 Watt = 30 dBm
11	2462	9.47	9.41	9.33	9.31	9.28	9.22	9.21	9.19	1 Watt = 30 dBm

*Note: Offset = Attenuator + Cable Loss = 10.5dB

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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802.11b

		EIRP (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	12.52	12.48	12.43	12.40	4 Watts = 36 dBm
6	2437	12.45	12.39	12.37	12.34	4 Watts = 36 dBm
11	2462	12.14	12.07	12.05	12.01	4 Watts = 36 dBm

802.11g

		EIRP (dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	12.51	12.49	12.48	12.43	12.38	12.36	12.31	12.24	4 Watts = 36 dBm
6	2437	12.38	12.37	12.33	12.29	12.26	12.18	12.17	12.13	4 Watts = 36 dBm
11	2462	12.06	12.02	11.99	11.93	11.88	11.86	11.85	11.80	4 Watts = 36 dBm

802.11n_20M

		EIRP (dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
1	2412	12.40	12.37	12.34	12.29	12.28	12.23	12.18	12.10	4 Watts = 36 dBm
6	2437	12.33	12.30	12.27	12.26	12.24	12.18	12.13	12.09	4 Watts = 36 dBm
11	2462	11.99	11.93	11.85	11.83	11.80	11.74	11.73	11.71	4 Watts = 36 dBm

* Note: EIRP = Average Power + Gain, where the nominal gain of the antenna

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7. BAND EDGES MEASUREMENT

7.1. Standard Applicable:

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

According to RSS-Gen §8.9 and RSS-210 issue 8, §A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 4 and 5 is not required. In addition, radiated emissions which fall in the restricted bands of Table 6 must also comply with the radiated emission limits specified in Tables 4 and 5.

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7.2. Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/26/2014	05/25/2015
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
Loop Antenna	ETS.LINDGREN	6502	00148045	07/03/2014	07/02/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2014	05/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_Rx	9	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

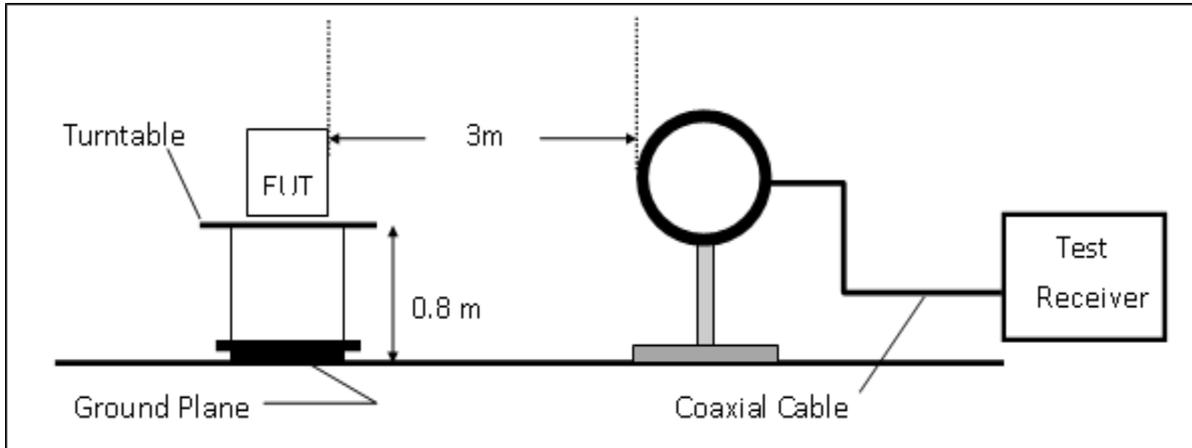
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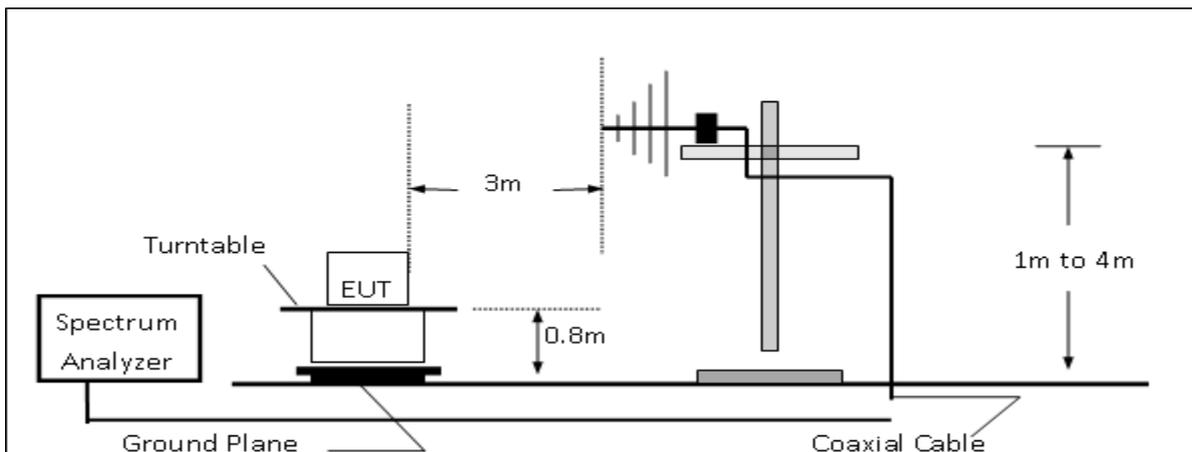
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7.3. Test SET-UP:

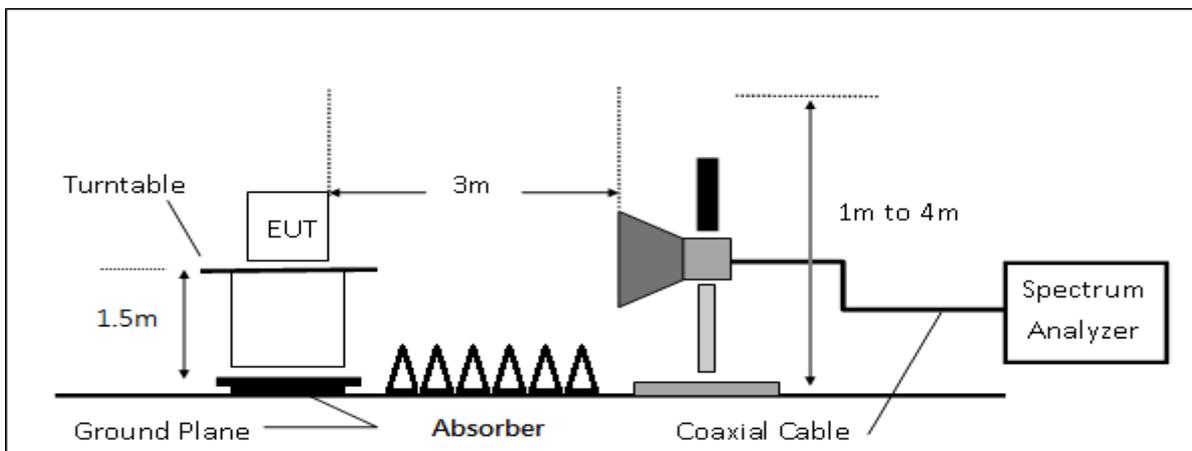
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.4. Measurement Procedure:

Unwanted Emissions into Non-Restricted Frequency Bands, Measurement Procedure followed by 11.1 of KDB558074 D01

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
4. Set the spectrum analyzer as RBW = 100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
5. Mark the highest reading of the emission as the reference level measurement.
6. Set DL as the limit = reading on marker 1 – 20dBm
7. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 KHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Unwanted Emission falling into Restricted Frequency Bands, Measurement Procedure followed by 11.1 of KDB558074:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. On spectrum, following 8.1.2, and RBW = 1MHz, VBW = 3MHz, & Marker 2390MHz, and 2483.5MHz (Peak Measurement). Average Measurement: following 8.2 with the modification span to 1MHz, & RBW = 1MHz, VBW = 3MHz and peak marker function to obtain the highest reading on 2390, and 2483.5MHz.
8. Repeat above procedures until all default test channel (low, middle, and high) was complete

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7.5. Field Strength Calculation:

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

7.6. Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Emission: 802.11 b mode

Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	E	Average	30.43	5.16	35.59	54.00	-18.41
2390.00	E	Peak	43.66	5.16	48.82	74.00	-25.18

Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
2390.00	E	Average	30.47	5.16	35.63	54.00	-18.37
2390.00	E	Peak	44.98	5.16	50.14	74.00	-23.86

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Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Average	30.24	6.01	36.25	54.00	-17.75
2483.50	E	Peak	43.40	6.01	49.41	74.00	-24.59

Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Average	30.15	6.01	36.16	54.00	-17.84
2483.50	E	Peak	43.68	6.01	49.69	74.00	-24.31

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Radiated Emission: 802.11 g mode

Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Average	38.42	5.16	43.58	54.00	-10.42
2390.00	E	Peak	55.17	5.16	60.33	74.00	-13.67

Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Average	39.41	5.16	44.57	54.00	-9.43
2390.00	E	Peak	57.76	5.16	62.92	74.00	-11.08

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Average	35.30	2.53	37.83	54.00	-16.17
2483.50	E	Peak	50.59	2.53	53.12	74.00	-20.88

Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Average	34.59	6.01	40.60	54.00	-13.40
2483.50	E	Peak	52.18	6.01	58.19	74.00	-15.81

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Radiated Emission: 802.11 n_20MHz mode

Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	40.70	5.16	45.86	54.00	-8.14
2390.00	E	Peak	59.58	5.16	64.74	74.00	-9.26

Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	42.49	5.16	47.65	54.00	-6.35
2390.00	E	Peak	62.13	5.16	67.29	74.00	-6.71

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Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Average	35.88	6.01	41.89	54.00	-12.11
2483.50	E	Peak	53.25	6.01	59.26	74.00	-14.74

Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:Band Edge HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Average	37.38	6.01	43.39	54.00	-10.61
2483.50	E	Peak	54.61	6.01	60.62	74.00	-13.38

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8. SPURIOUS RADIATED EMISSION TEST

8.1. Standard Applicable:

According to §15.247(d),

Emission at antenna port:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Radiated Spurious Emission

Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to RSS-Gen §8.9 and RSS-210 issue 8,§A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 4 and 5 is not required. In addition, radiated emissions which fall in the restricted bands of Table 6 must also comply with the radiated emission limits specified in Tables 4 and 5 of RSS-GEN.

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8.2. Measurement Equipment Used:

Refer to section 7.2 for details.

8.3. Test SET-UP:

Refer to section 7.3 for details.

8.4. Measurement Procedure:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

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8.5. Field Strength Calculation:

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

8.6. Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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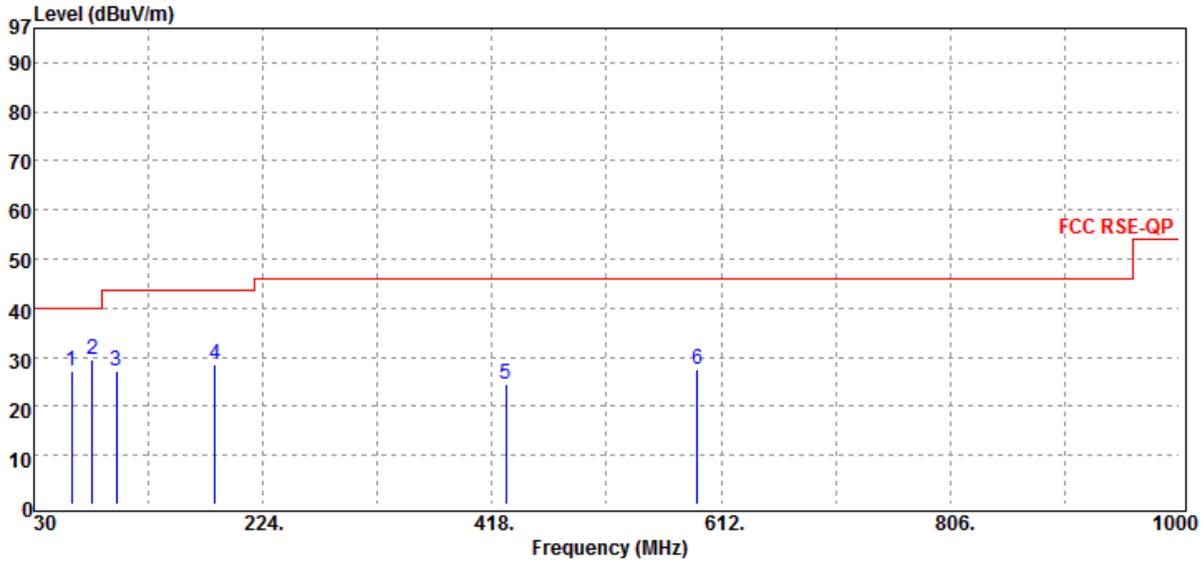
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Radiated Spurious Emission Measurement Result (802.11b)

For Frequency form 30MHz to 1000MHz Worst-Case Data:

Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



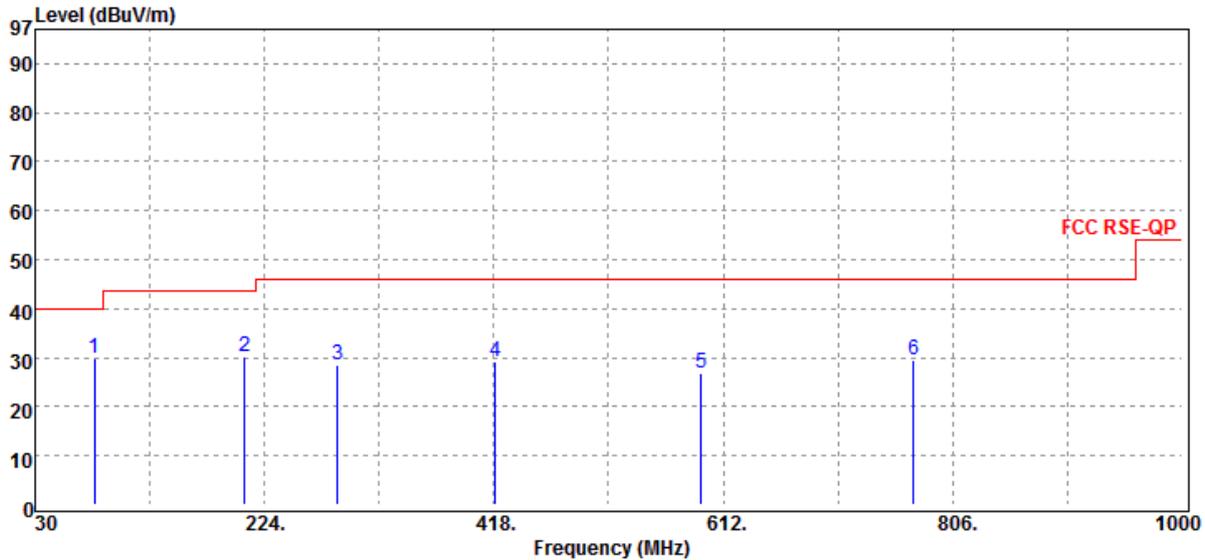
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
62.01	S	Peak	37.67	-10.49	27.18	40.00	-12.82
79.47	S	Peak	42.79	-13.22	29.57	40.00	-10.43
99.84	S	Peak	41.55	-14.32	27.23	43.50	-16.27
183.26	S	Peak	39.56	-10.92	28.64	43.50	-14.86
429.64	S	Peak	30.38	-5.76	24.62	46.00	-21.38
591.63	S	Peak	29.14	-1.53	27.61	46.00	-18.39

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



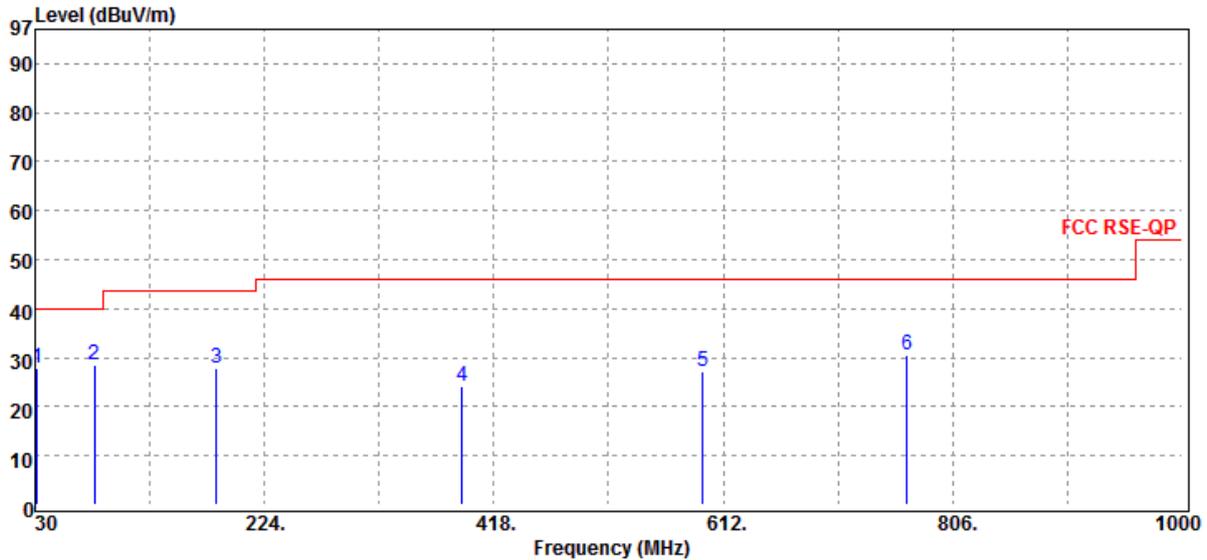
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
80.44	S	Peak	43.41	-13.39	30.02	40.00	-9.98
207.51	S	Peak	41.55	-11.32	30.23	43.50	-13.27
286.08	S	Peak	36.72	-8.26	28.46	46.00	-17.54
418.97	S	Peak	34.75	-5.68	29.07	46.00	-16.93
593.57	S	Peak	28.58	-1.59	26.99	46.00	-19.01
773.02	S	Peak	28.62	0.82	29.44	46.00	-16.56

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



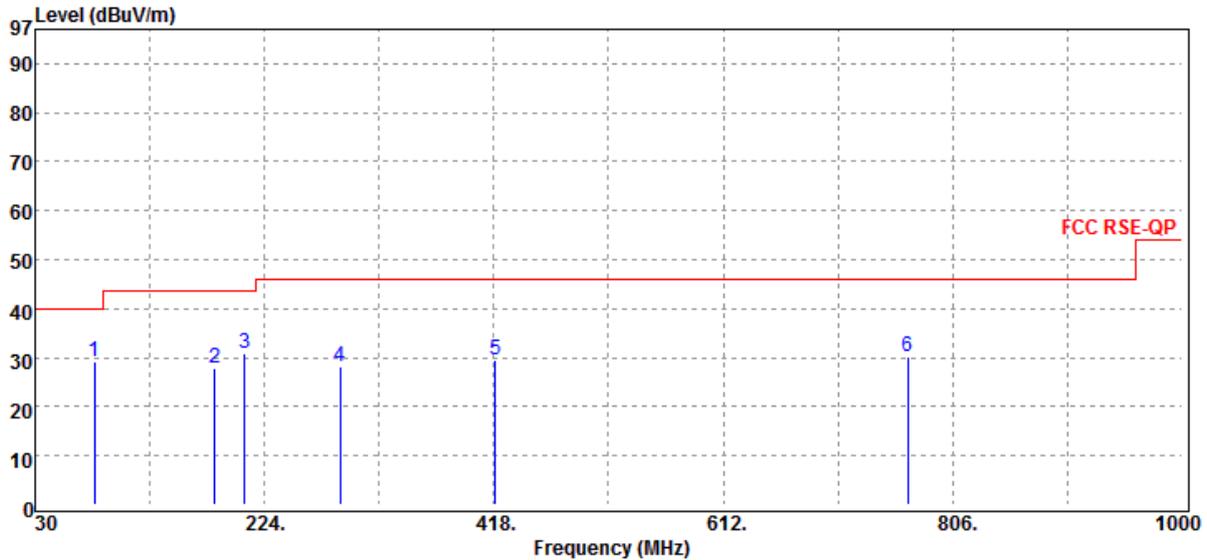
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
31.94	S	Peak	38.03	-10.22	27.81	40.00	-12.19
80.44	S	Peak	41.84	-13.39	28.45	40.00	-11.55
183.26	S	Peak	38.73	-10.92	27.81	43.50	-15.69
390.84	S	Peak	30.20	-6.13	24.07	46.00	-21.93
594.54	S	Peak	28.79	-1.63	27.16	46.00	-18.84
767.20	S	Peak	29.52	1.06	30.58	46.00	-15.42

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



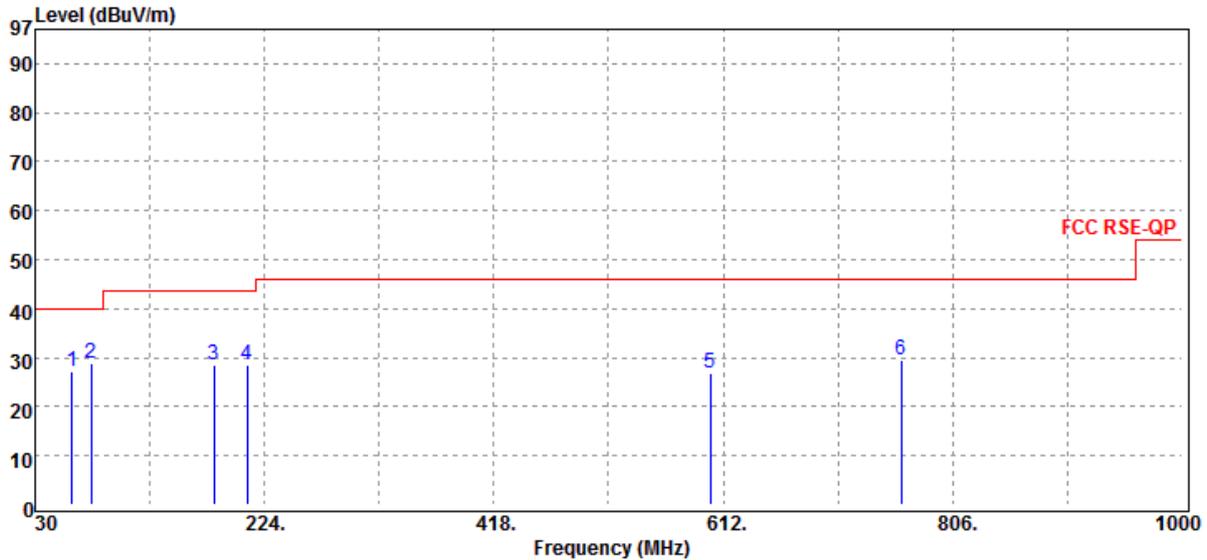
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
80.44	S	Peak	42.64	-13.39	29.25	40.00	-10.75
182.29	S	Peak	38.61	-10.81	27.80	43.50	-15.70
207.51	S	Peak	42.26	-11.32	30.94	43.50	-12.56
288.02	S	Peak	36.42	-8.24	28.18	46.00	-17.82
418.97	S	Peak	35.38	-5.68	29.70	46.00	-16.30
768.17	S	Peak	29.19	1.03	30.22	46.00	-15.78

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



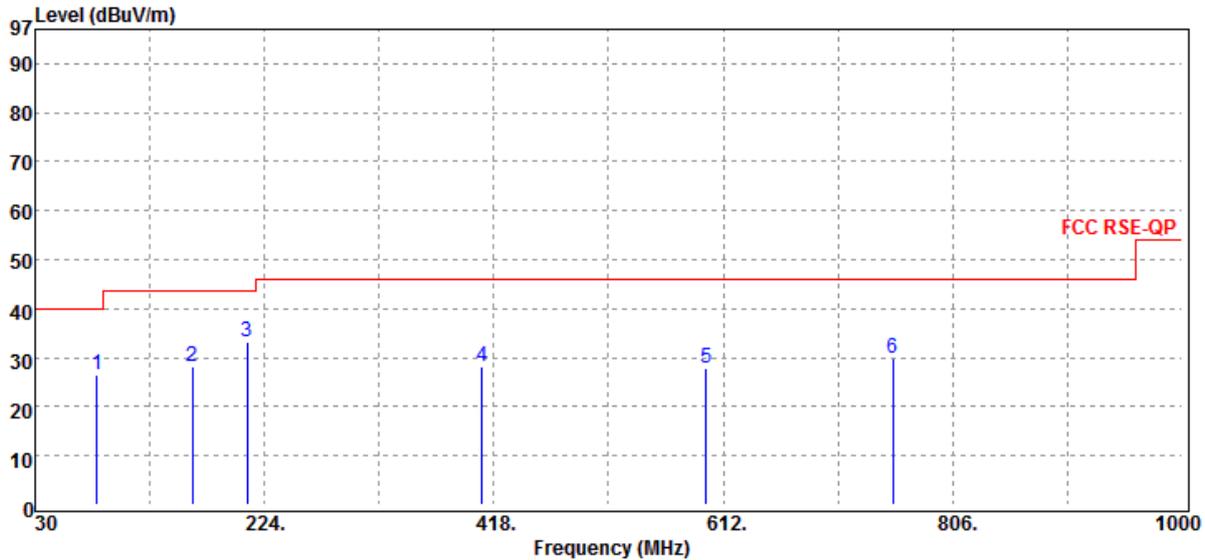
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
61.04	S	Peak	37.36	-10.33	27.03	40.00	-12.97
77.53	S	Peak	41.80	-12.90	28.90	40.00	-11.10
181.32	S	Peak	39.16	-10.70	28.46	43.50	-15.04
209.45	S	Peak	39.80	-11.21	28.59	43.50	-14.91
601.33	S	Peak	29.07	-2.16	26.91	46.00	-19.09
762.35	S	Peak	28.32	1.14	29.46	46.00	-16.54

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
82.38	S	Peak	40.41	-13.84	26.57	40.00	-13.43
162.89	S	Peak	37.04	-8.88	28.16	43.50	-15.34
209.45	S	Peak	44.31	-11.21	33.10	43.50	-10.40
408.30	S	Peak	33.96	-5.90	28.06	46.00	-17.94
597.45	S	Peak	29.77	-1.80	27.97	46.00	-18.03
755.56	S	Peak	28.93	0.80	29.73	46.00	-16.27

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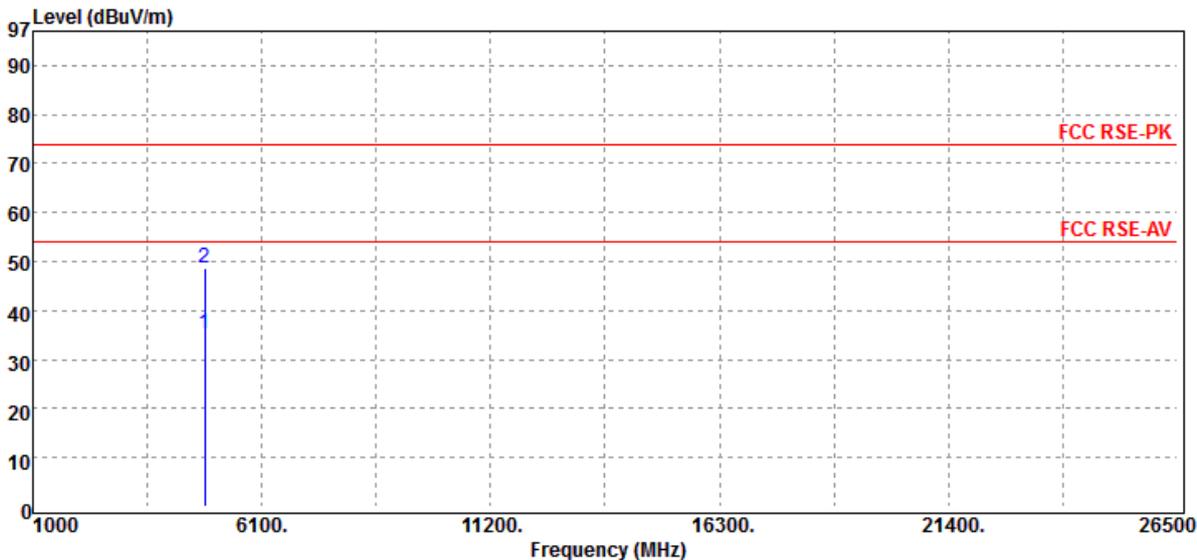
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Radiated Spurious Emission Measurement Result

For Frequency over 1GHz (802.11b)

Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Average	25.49	9.63	35.12	54.00	-18.88
4824.00	H	Peak	39.06	9.63	48.69	74.00	-25.31

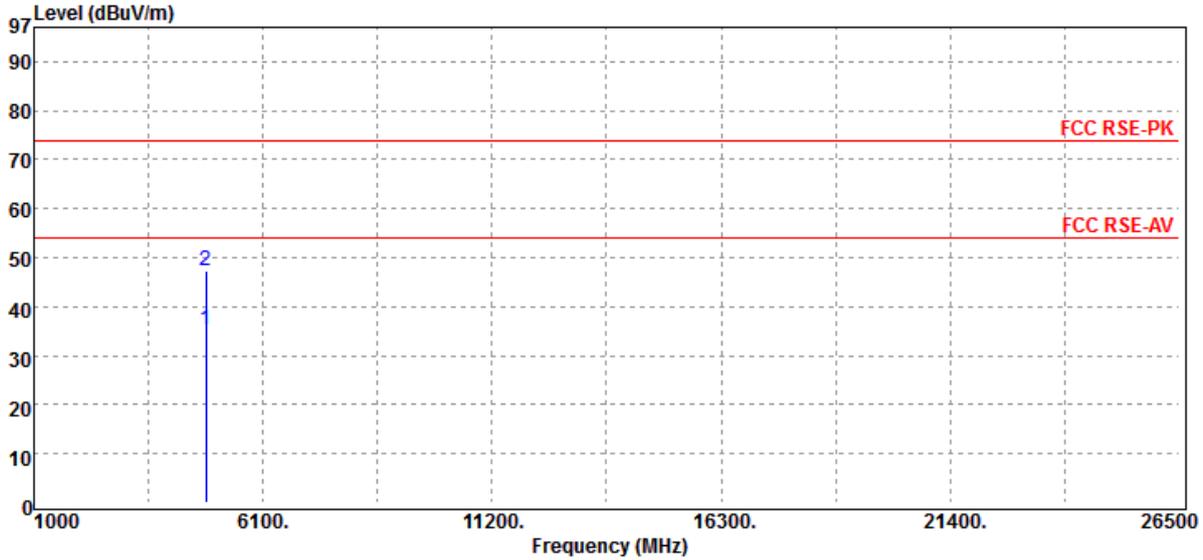
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Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



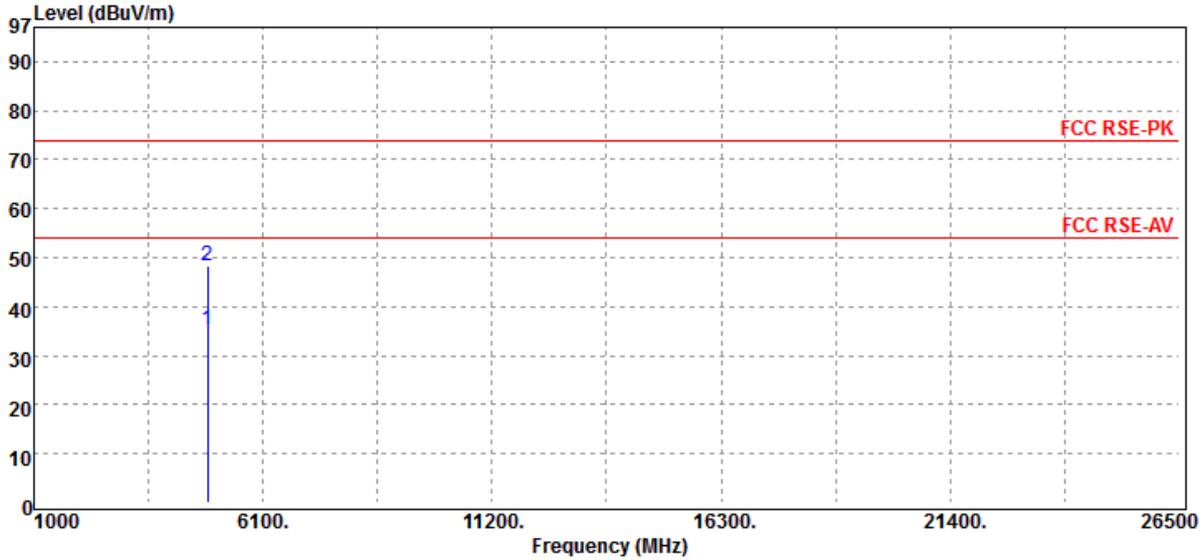
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	H	Average	25.74	9.63	35.37	54.00	-18.63
4824.00	H	Peak	37.81	9.63	47.44	74.00	-26.56

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Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



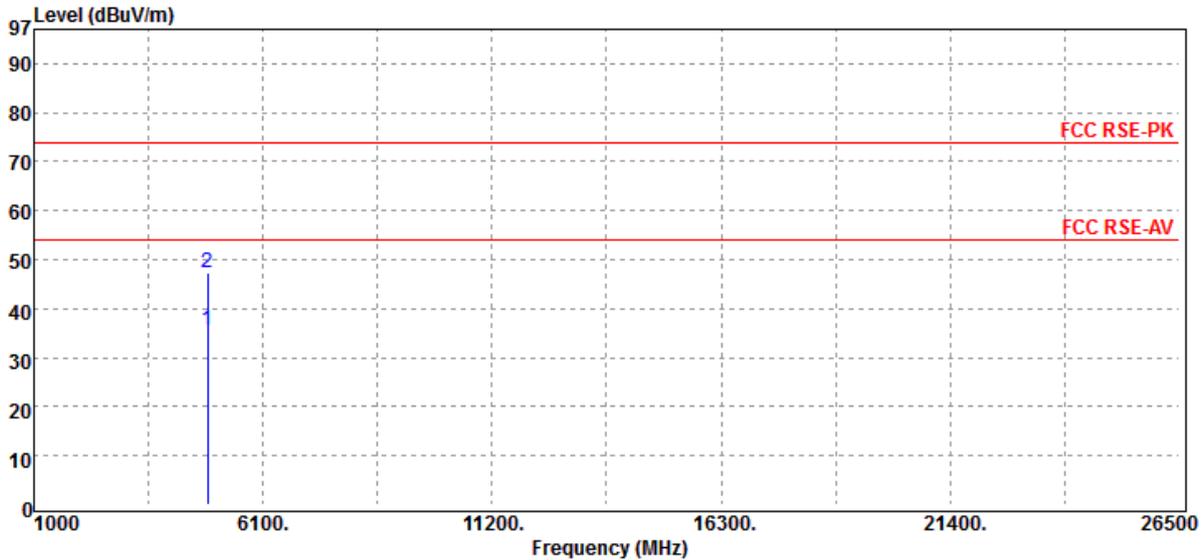
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dB μ V		dB μ V/m	dB μ V/m	
4874.00	H	Average	25.26	9.85	35.11	54.00	-18.89
4874.00	H	Peak	38.56	9.85	48.41	74.00	-25.59

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Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



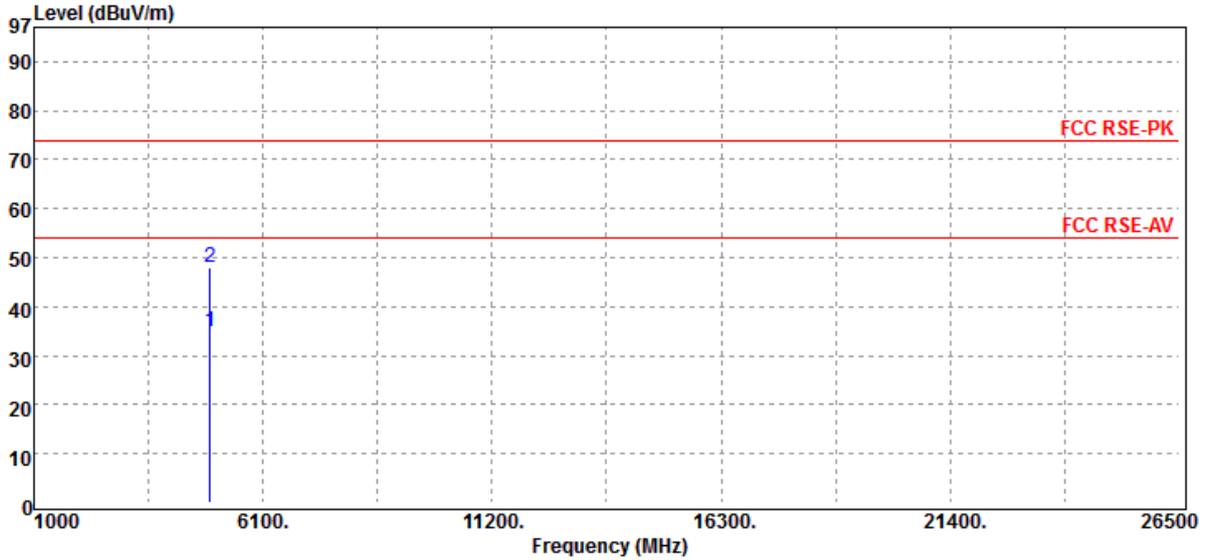
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Average	25.57	9.85	35.42	54.00	-18.58
4874.00	H	Peak	37.44	9.85	47.29	74.00	-26.71

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Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



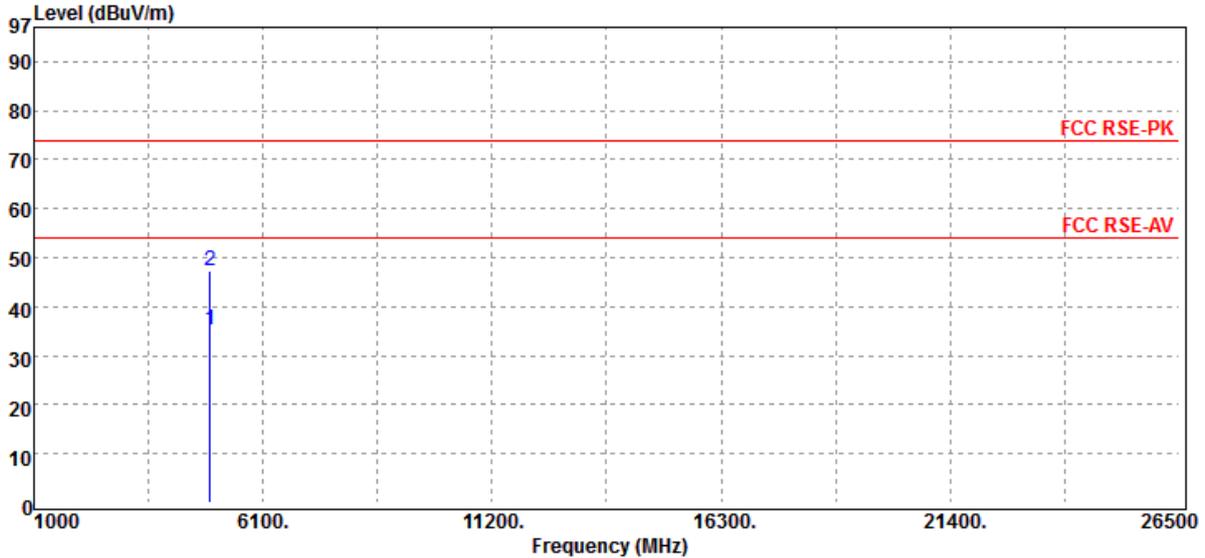
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Average	25.02	9.86	34.88	54.00	-19.12
4924.00	H	Peak	38.02	9.86	47.88	74.00	-26.12

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Operation Band	:802.11 b	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Average	25.42	9.86	35.28	54.00	-18.72
4924.00	H	Peak	37.61	9.86	47.47	74.00	-26.53

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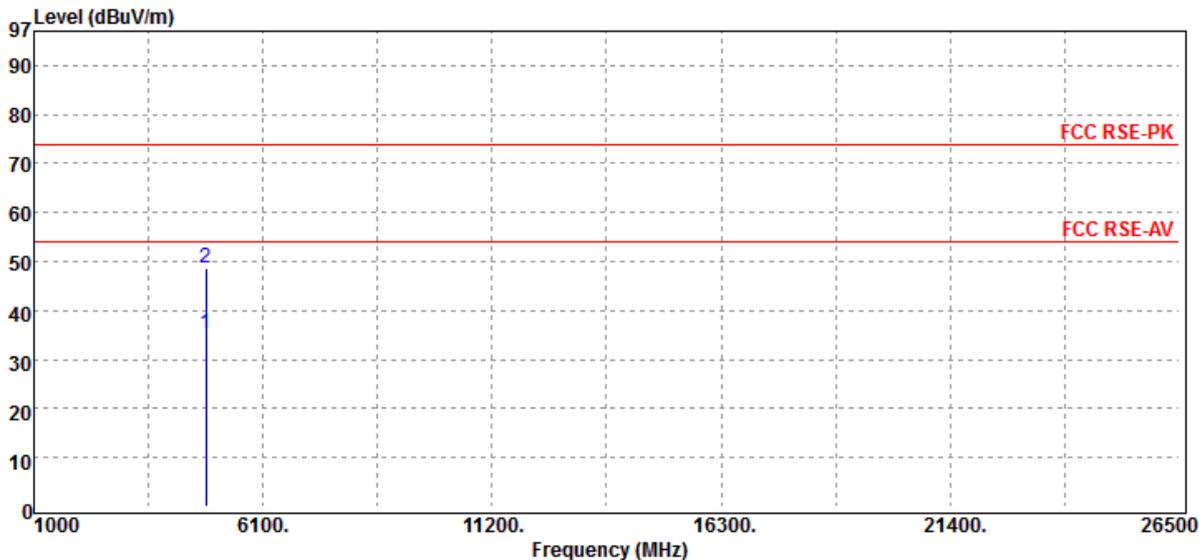
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Radiated Spurious Emission Measurement Result

For Frequency over 1GHz (802.11g)

Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dB μ V		dB μ V/m	dB μ V/m	
4824.00	H	Average	25.73	9.63	35.36	54.00	-18.64
4824.00	H	Peak	39.12	9.63	48.75	74.00	-25.25

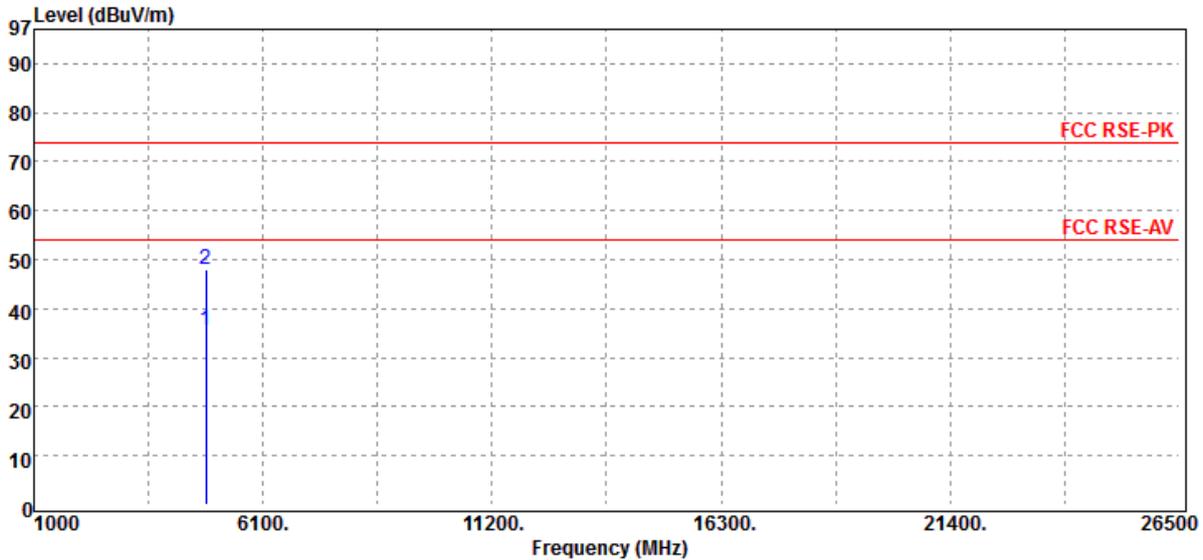
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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



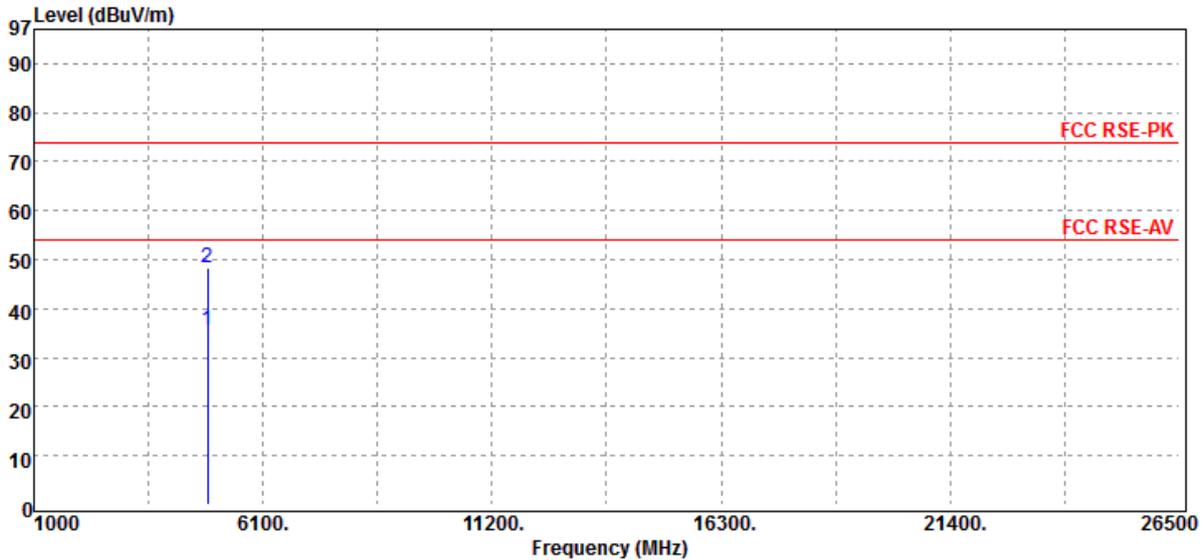
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	H	Average	25.93	9.63	35.56	54.00	-18.44
4824.00	H	Peak	38.20	9.63	47.83	74.00	-26.17

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



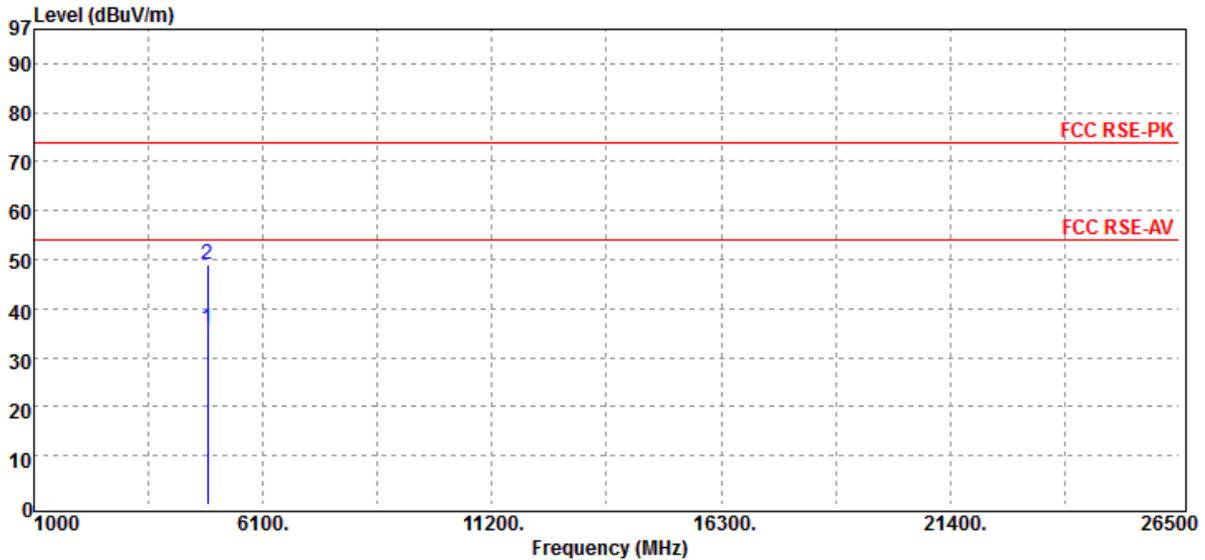
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Average	25.69	9.85	35.54	54.00	-18.46
4874.00	H	Peak	38.41	9.85	48.26	74.00	-25.74

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



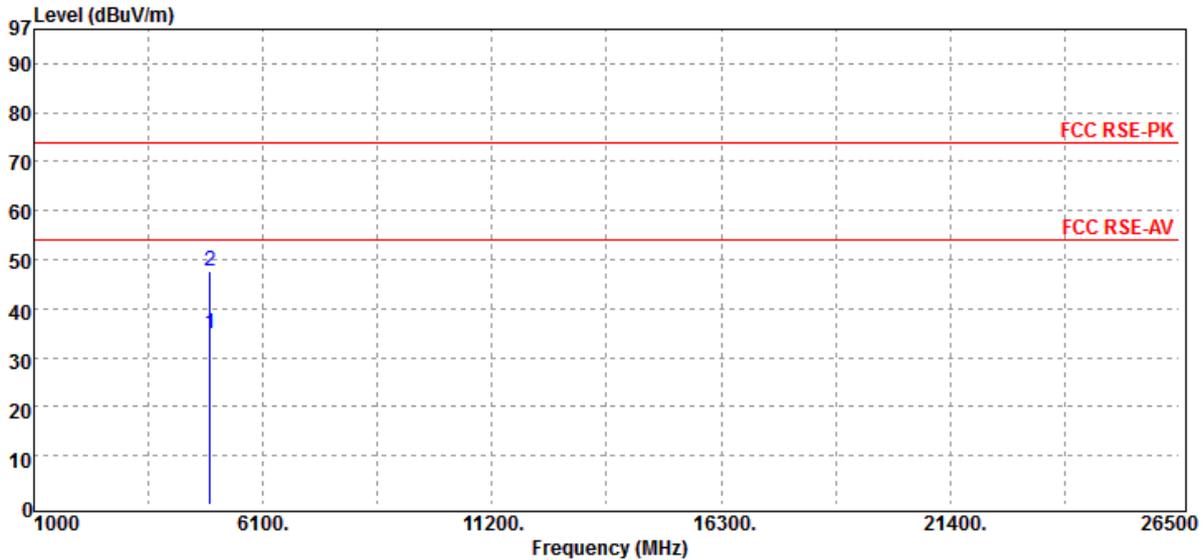
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dB μ V		dB μ V/m	dB μ V/m	
4874.00	H	Average	25.95	9.85	35.80	54.00	-18.20
4874.00	H	Peak	39.23	9.85	49.08	74.00	-24.92

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



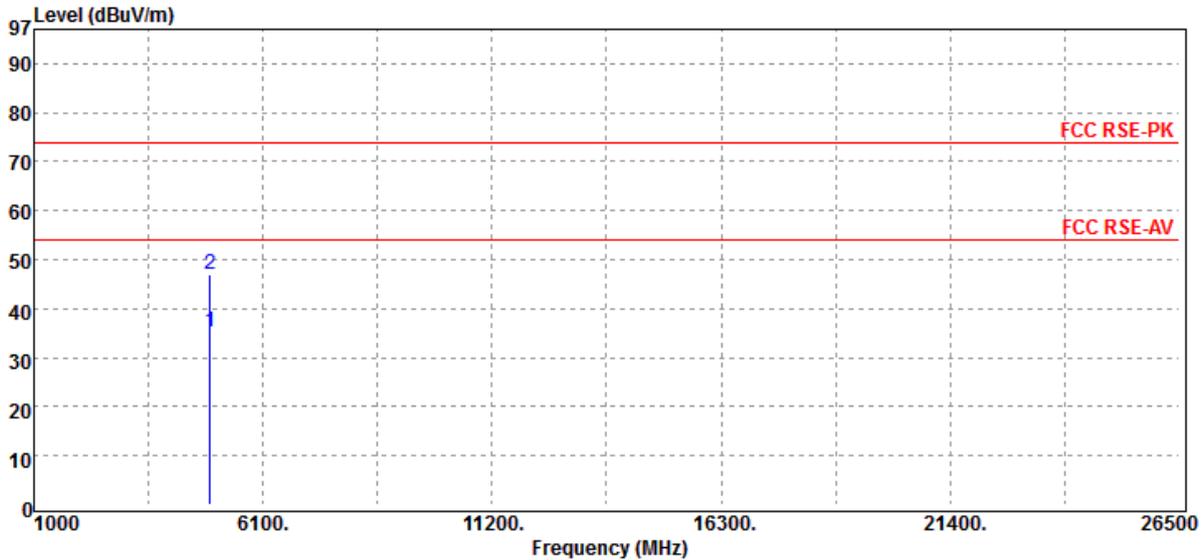
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Average	25.05	9.86	34.91	54.00	-19.09
4924.00	H	Peak	37.80	9.86	47.66	74.00	-26.34

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Operation Band	:802.11 g	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	H	Average	25.38	9.86	35.24	54.00	-18.76
4924.00	H	Peak	37.28	9.86	47.14	74.00	-26.86

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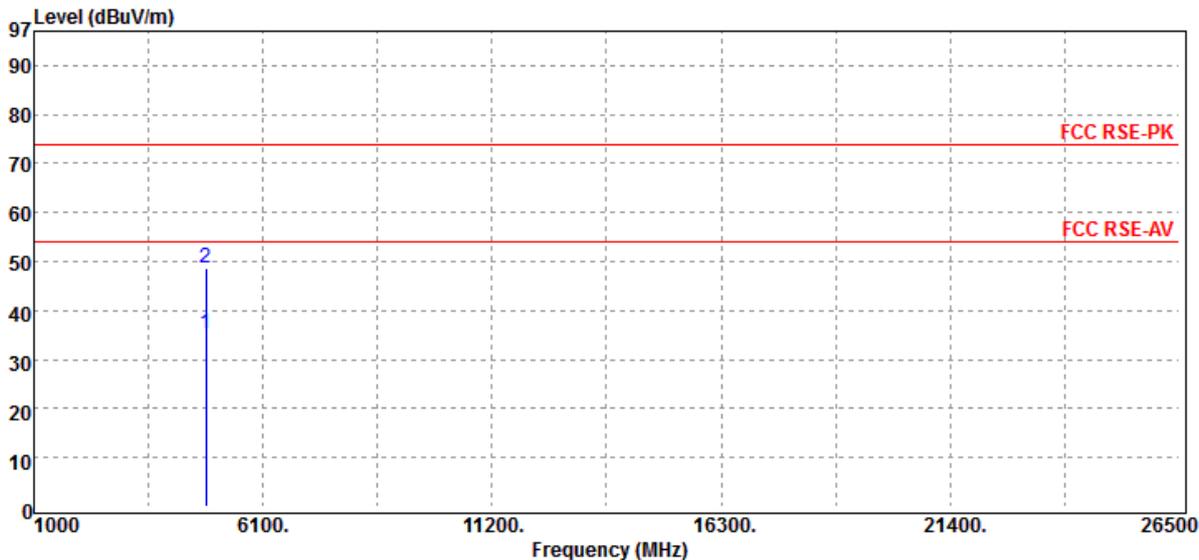
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Radiated Spurious Emission Measurement Result

For Frequency over 1GHz (802.11n_20MHz)

Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	H	Average	25.72	9.63	35.35	54.00	-18.65
4824.00	H	Peak	39.01	9.63	48.64	74.00	-25.36

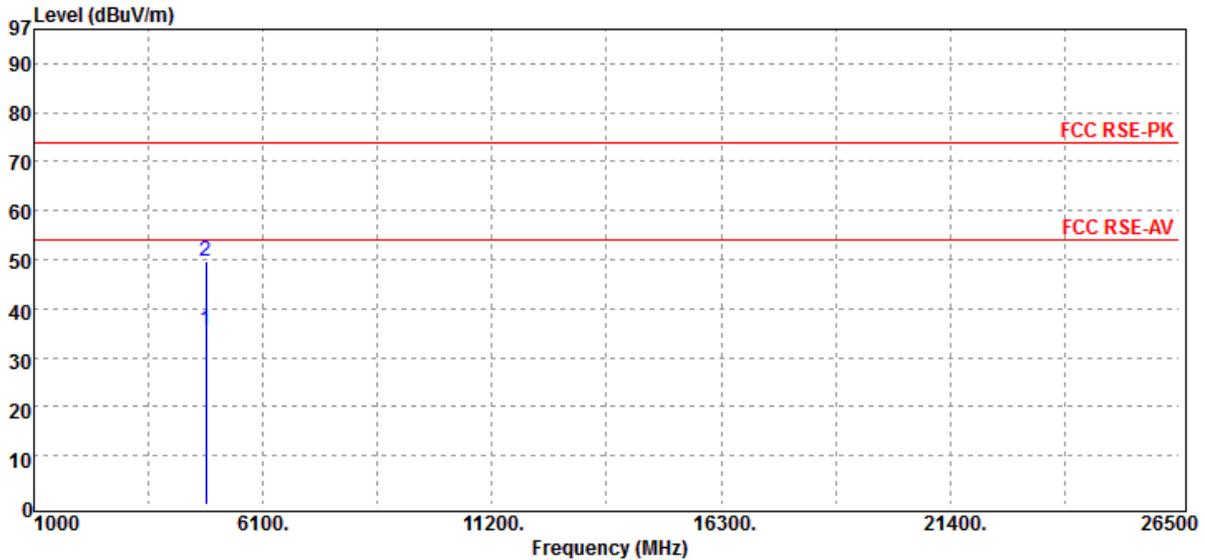
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Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2412 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX LOW	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



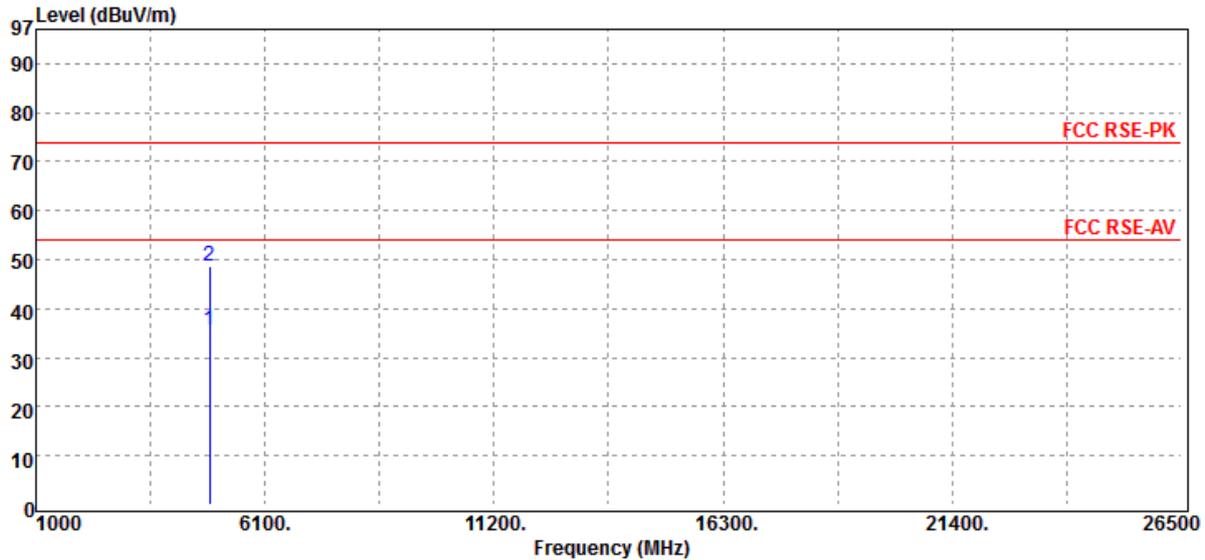
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	H	Average	25.98	9.63	35.61	54.00	-18.39
4824.00	H	Peak	39.90	9.63	49.53	74.00	-24.47

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Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



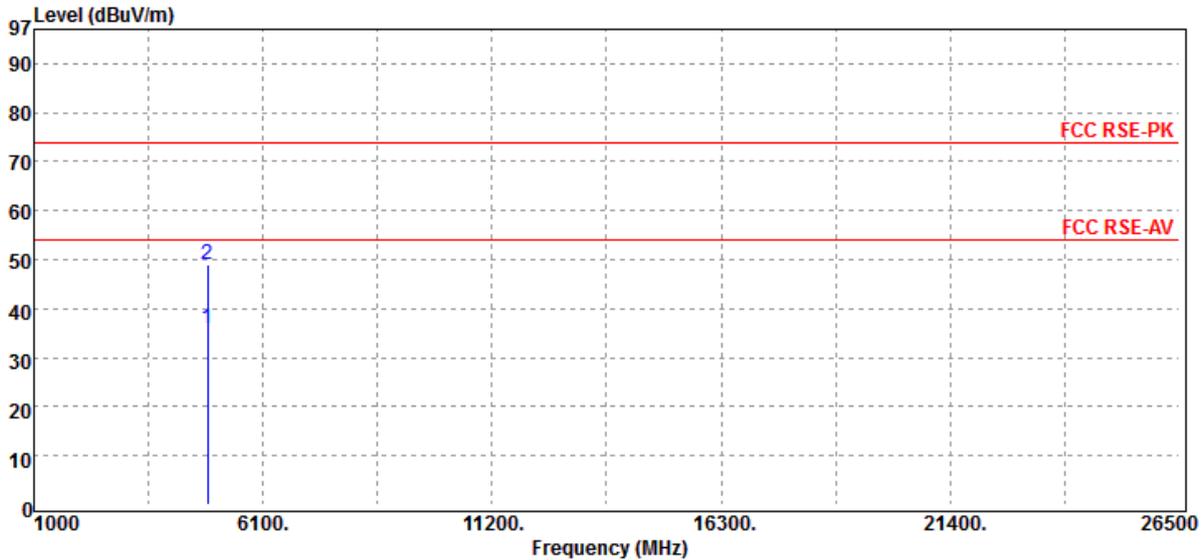
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Average	25.59	9.85	35.44	54.00	-18.56
4874.00	H	Peak	38.70	9.85	48.55	74.00	-25.45

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Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2437 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX MID	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



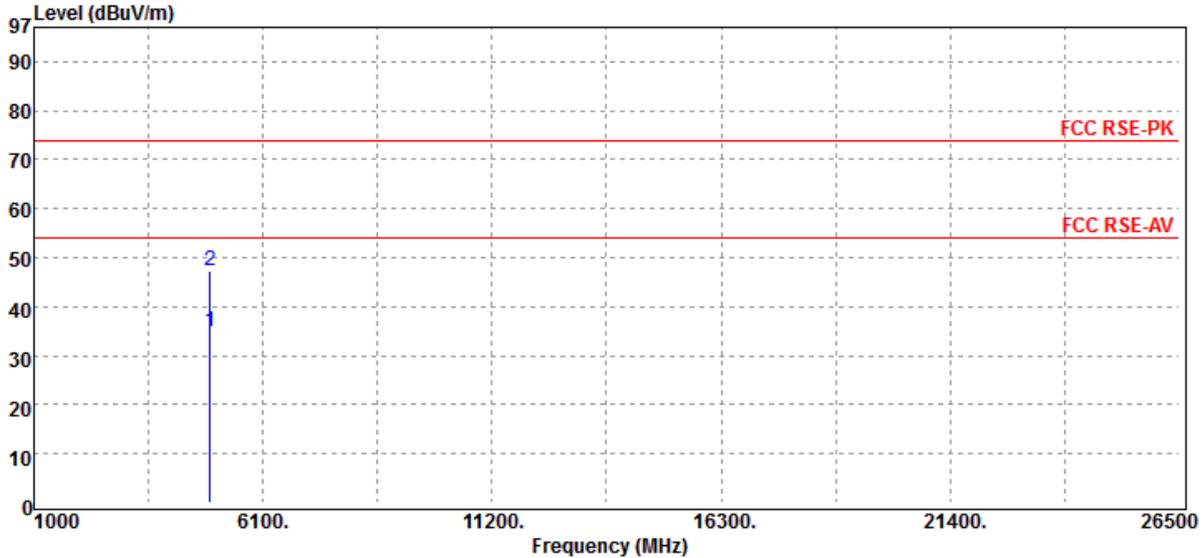
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dB μ V		dB μ V/m	dB μ V/m	
4874.00	H	Average	25.91	9.85	35.76	54.00	-18.24
4874.00	H	Peak	39.18	9.85	49.03	74.00	-24.97

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Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



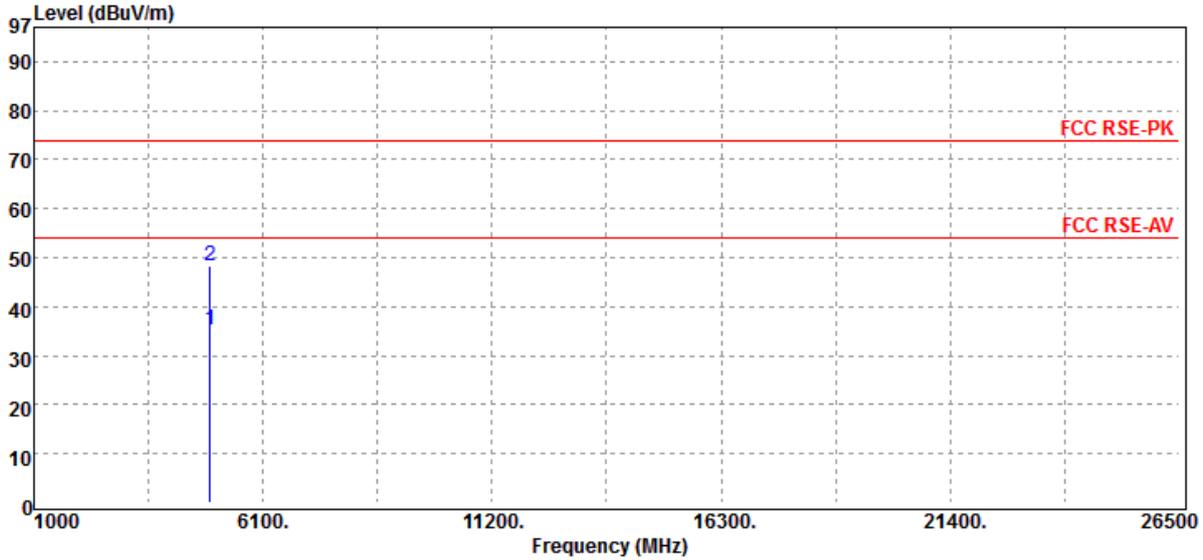
Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dB μ V		dB μ V/m	dB μ V/m	
4924.00	H	Average	25.12	9.86	34.98	54.00	-19.02
4924.00	H	Peak	37.39	9.86	47.25	74.00	-26.75

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Operation Band	:802.11 n20M	Test Date	:2015-04-16
Fundamental Frequency	:2462 MHz	Temp./Humi.	:24 deg_C / 57 RH
Operation Mode	:TX HIGH	Engineer	:Curry
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	H	Average	25.49	9.86	35.35	54.00	-18.65
4924.00	H	Peak	38.45	9.86	48.31	74.00	-25.69

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9. ANTENNA REQUIREMENT

9.1. Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to RSS-GEN 6.7, As per RSP-100, each applicant for equipment certification must provide a list of all antenna types that may be used with the transmitter, indicating the maximum permissible antenna gain (in dBi).

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements, including the antenna type used.

In addition, applicants shall perform RF power and spurious emission measurements with each antenna type supplied or specified by the manufacturer for use with the transmitter.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

9.2. Antenna Connected Construction:

The directional gains of antenna used for transmitting is 2.52dBi, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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