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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO **FCC PART 15 SUBPART C REQUIREMENT**

AC1900 High Power Dual Band Wireless **Product Name:**

USB Adapter

Brand Name: TRENDnet

TEW-809UB AC1900 High Power Wireless Marketing Name:

Dual Band USB Adapter

Model No.: **TEW-809UB**

Model Difference: N/A

XU8TEW809UB FCC ID:

E2/2015/C0042 Report No.:

Issue Date: Mar. 28, 2016

FCC Rule Part: §15.247, Cat: DTS

TRENDNET, Inc.

Prepared for: 20675 Manhattan Place Torrance, CA 90501

USA

SGS Taiwan Ltd.

Electronics & Communication Laboratory Prepared by:

No.2, Keji 1st Rd., Guishan District,

Taoyuan City, Taiwan 333





Testing Laboratory 0513

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VERIFICATION OF COMPLIANCE

TRENDNET, Inc. **Applicant:**

20675 Manhattan Place Torrance, CA 90501 USA

AC1900 High Power Dual Band Wireless USB Adapter **Product Name:**

Brand Name: TRENDnet

TEW-809UB AC1900 High Power Wireless Dual Band USB Adapter **Marketing Name:**

Model No.: **TEW-809UB**

Model Difference: N/A

FCC ID: XU8TEW809UB **Report Number:** E2/2015/C0042

Dec. 14, 2015 ~ Mar. 15, 2016 Date of test:

Date of EUT Received: Dec. 14, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:	Aken Huang	Date:	Mar. 28, 2016	
Prepared By:	Aken Huang/Engineer Utoletta Tang	Date:	Mar. 28, 2016	
Approved By:	Violetta Tang / Clerk Jim Chang / Asst. Manager	Date:	Mar. 28, 2016	

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Revision History

Report Number Revision		Description	Issue Date	
E2/2015/C0042	Rev.00	Initial creation of document	Mar. 28, 2016	

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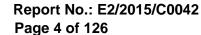
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GENERAL INFORMATION

1.1 Product description

General:

Product Name:	AC1900 High Power Dual Band Wireless USB Adapter
Brand Name:	TRENDnet
Marketing Name:	TEW-809UB AC1900 High Power Wireless Dual Band USB Adapter
Model No.:	TEW-809UB
Model Difference:	N/A
Product SW/HW version:	1.0 / 1.0
Radio SW/HW version:	1.0 / 1.0
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	5Vdc form USB Port

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Peak)	Modulation Technology		
11b/g	11b/g 2412-2462		b: 24.82dBm g: 24.14dBm	DSSS, OFDM		
11n	HT20 2412-2462	11	24.40dBm	OFDM		
11n	HT40 2422-2452	7	21.59dBm	OFDM		
Antenna Designation:		1. Dipole Antenna, Part No.: L142-000047, Gain: 5.44dBi 2. Dipole Antenna, Part No.: L142-082450-016, Gain: 5.44dBi 3. Dipole Antenna, Part No.: S142-082450-016, Gain: 5.44dBi				
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
Transition Rate:		802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n_20MHz: up to 216.7Mbps 802.11 n_40MHz: up to 450Mbps				

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Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

FCC KDB 662911 D01 Multiple Transmitter Output

ANSI C63.10:2013

Note:

- All test items have been performed and record as per the above standards.
- The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

1.3 **Test Facility**

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333. (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5.

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 **Equipment Modifications**

There was no modification incorporated into the EUT.

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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.

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.

Test Procedure 2.3

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. 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.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

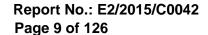
The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 0.7dB and 10dB attenuator. *Offset = RF cable loss (dB)+ attenuation factor(dB)=10.7(dB)

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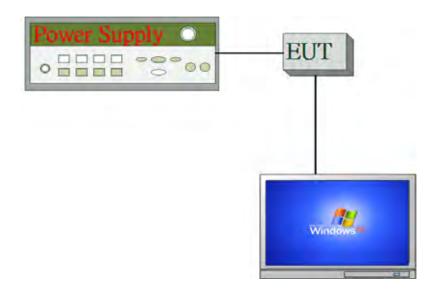


2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted Emission



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Fig. 2-3 AC Power Line Conducted Emission

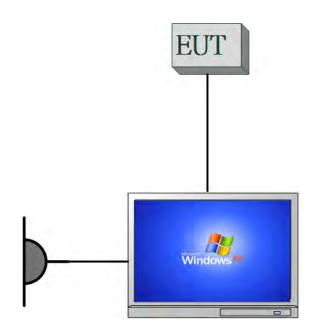


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L412	LR-027LM	N/A	N/A
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	N/A

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n HT20

١.	provided for 602:116, 602:11g and 602:1111_11126						
CHANNEL		FREQUENCY	CHANNEL	FREQUENCY			
1		2412 MHz	7	2442 MHz			
2 2417 MHz		2417 MHz	8	2447 MHz			
	3	2422 MHz	9	2452 MHz			
	4	2427 MHz	10	2457 MHz			
	5	2432 MHz	11	2462 MHz			
6 2437 M		2437 MHz					

7 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	3 2422 MHz		2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

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4.2 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11g	1 to 11	1,6,11	OFDM	6	MAIN		
	RADIATED	EMISSION TES	ST (ABOVE 1 GH	z)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN		
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN		
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS8	MIMO		
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS8	МІМО		

Note:

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 E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT	
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN	
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN	
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS8	MIMO	
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS8	MIMO	

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Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

Array gain = 4.77dBi (peak spectral density, conducted spurious emission) Gain that is combined with different magnitude of two antennas:

- If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream:
 - Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain; or,

$$Directional Gain = 10 \cdot log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

 N_{SS} = the number of independent spatial streams of data:

 N_{ANT} = the total number of antennas

 $g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

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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	+/- 0.84 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:

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

	30MHz - 167MHz: +/- 4.22dB				
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB				
(Polarization : Horizontal)	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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CONDUCTED EMISSION TEST

Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

	Lin	nits	
Frequency range	dB(uV)		
MHz	Quasi-peak	Average	
0.15 to 0.50	66 to 56	56 to 46	
0.50 to 5	56	46	
5 to 30	60	50	

Note

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT MFR		MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016				
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	01/06/2016	01/07/2017				
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016				
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016				
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.				

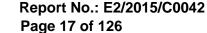
6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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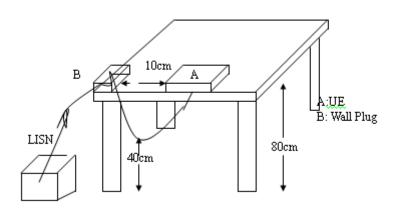
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

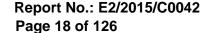
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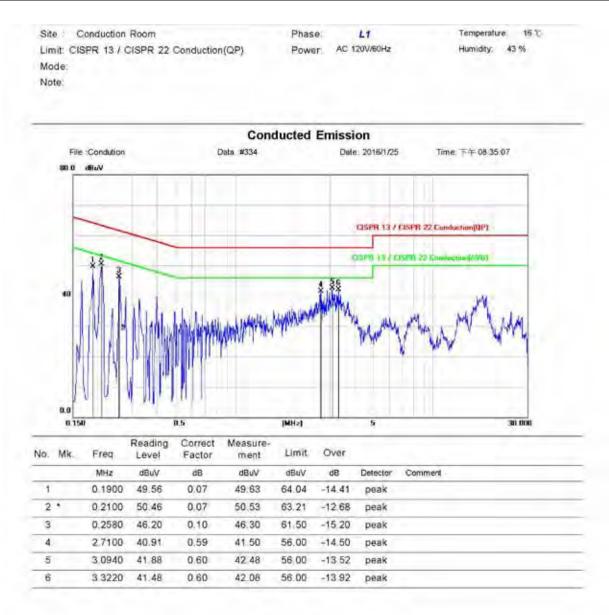
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Jan. 25, 2016	
Temperature:	16	Humidity:	43 %	Test By:	Aken



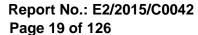
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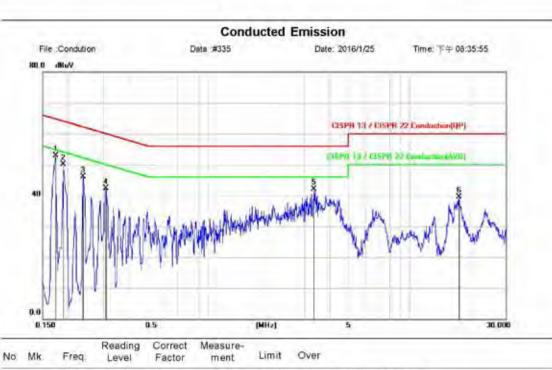
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Site : Conduction Room Phase Temperature: 16 °C AC 120V/60Hz Humidity. Limit: CISPR 13 / CISPR 22 Conduction(QP) Power:

Mode: Note:



No	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1740	52.76	0.14	52 90	64.77	-11.87	peak	
2		0.1900	49.89	0.13	50.02	64.04	-14.02	peak	
3		0 2380	45.91	0.15	46.06	62.17	-16.11	peak	
4	1	0.3100	42.20	0.18	42.38	59.97	-17.59	peak	
5		3.3620	41 36	0.65	42.01	56.00	-13.99	peak	
6		17.6420	38.96	0.61	39.57	60.00	-20.43	peak	

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DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode 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 where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz.
- 4. Detector = Peak

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	99.60	0.02
802.11g	96.28	0.16
802.11n_20	89.94	0.46
802.11n_40	82.00	0.86

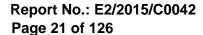
Duty Cycle Factor: 10 * log (1/Duty cycle)

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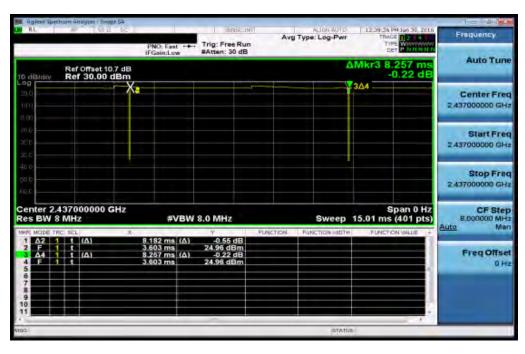
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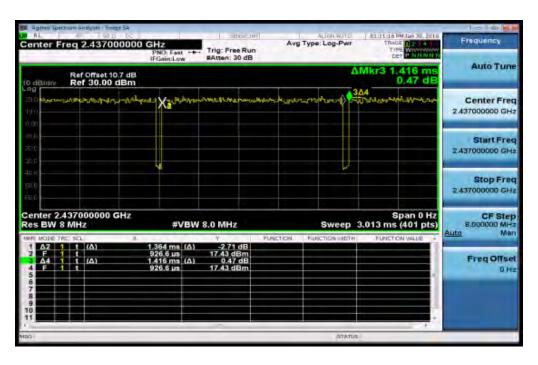




7.1 DUTY CYCLE TEST SIGNAL Measurement Result 802.11 b



802.11 g



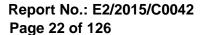
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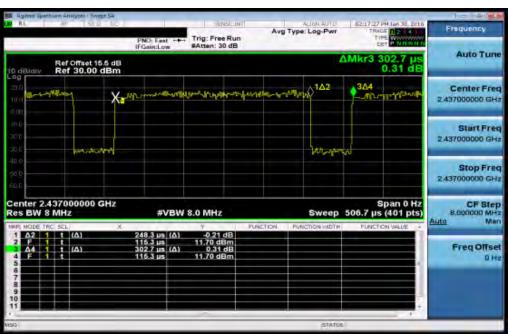




802.11 n_20 MHz



802.11 n 40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

Antenna Gain: 5.44 dBi
Number Antenna: 3 pcs
Limit: 30 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 5.44+4.77=10.21dBi

Limit: 30dBm - (10.21-6dBi)=25.79dBm

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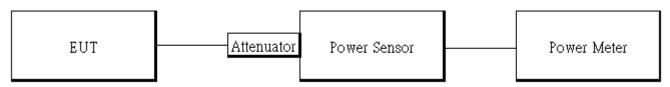
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8.2 Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016				
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016				
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016				
DC Block	PASTERNACK	PE8210	RF29	12/19/2015	12/18/2016				
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2015	12/18/2016				
Attenuator	WOKEN	218FS-10	RF23	12/19/2015	12/18/2016				

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

- 4. Record the max. Reading as observed from Spectrum or Power Meter.
- 5. Repeat above procedures until all frequency of interest measured was complete.

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8.5 Measurement Result

802.1	802.11b_Main								
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT			
1	2412	1	24.23	264.85	1 Watt = 30.00 dBm	PASS			
6	2437	1	24.67	293.09	1 Watt = 30.00 dBm	PASS			
11	2462	1	22.91	195.43	1 Watt = 30.00 dBm	PASS			
802.1	1b_Main	-			-	-			
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT			
1	2412	1	22.76	188.80	1 Watt = 30.00 dBm	PASS			
6	2437	1	22.93	196.34	1 Watt = 30.00 dBm	PASS			
11	2462	1	20.89	122.74	1 Watt = 30.00 dBm	PASS			

802.11g_Main								
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT		
1	2412	6	23.57	227.51	1 Watt = 30.00 dBm	PASS		
6	2437	6	23.87	243.78	1 Watt = 30.00 dBm	PASS		
11	2462	6	23.42	219.79	1 Watt = 30.00 dBm	PASS		
802.1	1g_Main							
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT		
1	2412	6	15.52	35.65	1 Watt = 30.00 dBm	PASS		
6	2437	6	15.72	37.33	1 Watt = 30.00 dBm	PASS		
11	2462	6	15.31	33.96	1 Watt = 30.00 dBm	PASS		

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802.11b_Aux-1

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00-11	. 10_7 (0.7)					
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	24.59	287.74	1 Watt = 30.00 dBm	PASS
6	2437	1	24.82	303.39	1 Watt = 30.00 dBm	PASS
11	2462	1	23.14	206.06	1 Watt = 30.00 dBm	PASS
802.1	1b_Aux-1					
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	1	22.83	191.87	1 Watt = 30.00 dBm	PASS
6	2437	1	23.18	207.97	1 Watt = 30.00 dBm	PASS
11	2462	1	21.18	131.22	1 Watt = 30.00 dBm	PASS
802.1	1g_Aux-1	ī				
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	23.77	238.23	1 Watt = 30.00 dBm	PASS
6	2437	6	24.14	259.42	1 Watt = 30.00 dBm	PASS
11	2462	6	23.57	227.51	1 Watt = 30.00 dBm	PASS
802.1	1g_Aux-1					
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT

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15.56

16.01

15.46

35.97

39.90

35.16

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1 Watt =

1 Watt =

1 Watt =

30.00

30.00

30.00

dBm

dBm

dBm

6

6

6

2412

2437

2462

1

6

11

PASS

PASS

PASS

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802.11	lb Aux2							
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	l I	_imit		RESULT
1	2412	1	24.15	260.02	1 Watt =	30.00	dBm	PASS
6	2437	1	24.46	279.25	1 Watt =	30.00	dBm	PASS
11	2462	1	22.76	188.80	1 Watt =	30.00	dBm	PASS
802.11	lb Aux2							
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	l I	_imit		RESULT
1	2412	1	22.63	183.23	1 Watt =	30.00	dBm	PASS
6	2437	1	22.76	188.80	1 Watt =	30.00	dBm	PASS
11	2462	1	20.71	117.76	1 Watt =	30.00	dBm	PASS

802.11	lg Aux2							
СН	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	l	_imit		RESULT
1	2412	6	23.43	220.29	1 Watt =	30.00	dBm	PASS
6	2437	6	23.68	233.35	1 Watt =	30.00	dBm	PASS
11	2462	6	23.34	215.77	1 Watt =	30.00	dBm	PASS
802.11	lg Aux2							
СН	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	I	_imit		RESULT
1	2412	6	15.32	34.04	1 Watt =	30.00	dBm	PASS
6	2437	6	15.64	36.64	1 Watt =	30.00	dBm	PASS
11	2462	6	15.22	33.27	1 Watt =	30.00	dBm	PASS

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802.1	1n_20M 3TX										
СН	Frequency (MHz)	Data Rate	Pea	k Output Po (dBm)	ower	Total Peak Output Power	Total Peak Output Power	Limit		RESULT	
			CHAIN 1	CHAIN 2	CHAIN 3	(dBm)	(mW)				
1	2412	mcs16	19.03	19.18	18.92	23.82	240.76	1 Watt =	25.79	dBm	PASS
6	2437	mcs16	19.68	19.83	19.36	24.40	275.36	1 Watt =	25.79	dBm	PASS
11	2462	mcs16	18.36	18.55	18.25	23.16	207.00	1 Watt =	25.79	dBm	PASS
802.1	1n_20M 3TX										
СН	Frequency (MHz)	Data Rate	Avg	j. Output Po (dBm)	wer	Total Peak Output Power	Total Peak Output Power	ı	Limit RESU		
			CHAIN 1	CHAIN 2	CHAIN 3	(dBm)	(mW)				
1	2412	mcs16	15.34	16.34	14.73	20.29	106.97	1 Watt =	25.79	dBm	PASS
6	2437	mcs16	15.69	16.75	15.15	20.69	117.12	1 Watt =	25.79	dBm	PASS
11	2462	mcs16	15.32	15.39	14.72	19.92	98.28	1 Watt =	25.79	dBm	PASS

1n_40M 3TX										
Frequency (MHz)	Data Rate		(dBm)		Total Peak Output Power	Total Peak Output Power	ı	_imit		RESULT
		CHAIN 1	CHAIN 2	CHAIN 3	(dBm)	(mW)				
2422	mcs16	16.84	17.03	16.59	21.59	144.38	1 Watt =	25.79	dBm	PASS
2437	mcs16	16.66	16.79	16.55	21.44	139.28	1 Watt =	25.79	dBm	PASS
2452	mcs16	16.51	16.62	16.42	21.29	134.54	1 Watt =	25.79	dBm	PASS
1n_40M 3TX	•	•					•			
Frequency (MHz)	Data Rate	Avg	. Output Po (dBm)	wer	Total Peak Output Power	Total Peak Output Power	Limit		RESULT	
		CHAIN 1	CHAIN 2	CHAIN 3	(dBm)	(mW)				
2422	mcs16	13.36	13.42	12.6	17.91	61.85	1 Watt =	25.79	dBm	PASS
2437	mcs16	13.29	13.31	12.52	17.83	60.62	1 Watt =	25.79	dBm	PASS
2452	mcs16	13.01	13.21	12.22	17.61	57.61	1 Watt =	25.79	dBm	PASS
	Frequency (MHz) 2422 2437 2452 1n_40M 3TX Frequency (MHz) 2422 2437	Frequency (MHz) 2422 mcs16 2437 mcs16 2452 mcs16 1n_40M 3TX Frequency (MHz) 2422 mcs16 2437 mcs16 2437 mcs16	Pea Pea	Peak Output Pote (dBm) Peak Output Pote (dBm)	Peak Output Power (dBm) CHAIN 1 CHAIN 2 CHAIN 3	Peak Output Power (dBm)	Peak Output Power (dBm)	Peak Output Power (dBm)	Peak Output Power (dBm)	Peak Output Power (dBm)

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



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6dB BANDWIDTH MEASUREMENT

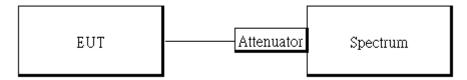
Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

	Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016				
DC Block	PASTERNACK	PE8210	RF29	12/19/2015	12/18/2016				
Attenuator	WOKEN	218FS-10	RF23	12/19/2015	12/18/2016				

Test Set-up



9.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:
 - Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
- 5. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. For 99% Bandwidth:
 - Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

802.11b Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	10060	> 500	PASS
2437	10055	> 500	PASS
2462	10058	> 500	PASS

802.11q Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16360	> 500	PASS
2437	16334	> 500	PASS
2462	16364	> 500	PASS

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	17580	> 500	PASS
2437	17591	> 500	PASS
2462	17586	> 500	PASS

802.11 n HT40 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35839	> 500	PASS
2437	35942	> 500	PASS
2452	35987	> 500	PASS

802.11b Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	10057	> 500	PASS
2437	10070	> 500	PASS
2462	9578.4	> 500	PASS

802.11g Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16340	> 500	PASS
2437	16386	> 500	PASS
2462	16344	> 500	PASS

802.11 n HT20 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	17564	> 500	PASS
2437	17595	> 500	PASS
2462	17591	> 500	PASS

802.11 n HT40 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35794	> 500	PASS
2437	35848	> 500	PASS
2452	36314	> 500	PASS

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802.11b Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	10080	> 500	PASS
2437	11050	> 500	PASS
2462	10040	> 500	PASS

802 11a Aux2

- 002:119 / tax2			
Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	16410	> 500	PASS
2437	16420	> 500	PASS
2462	16330	> 500	PASS

802.11_n_HT20 Aux2

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	17600	> 500	PASS
2437	17570	> 500	PASS
2462	17590	> 500	PASS

802.11_n_HT40 Aux2

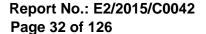
Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	36360	> 500	PASS
2437	35780	> 500	PASS
2452	35950	> 500	PASS

*Refer to next page for plots

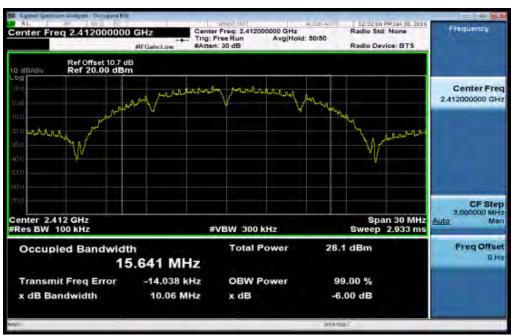
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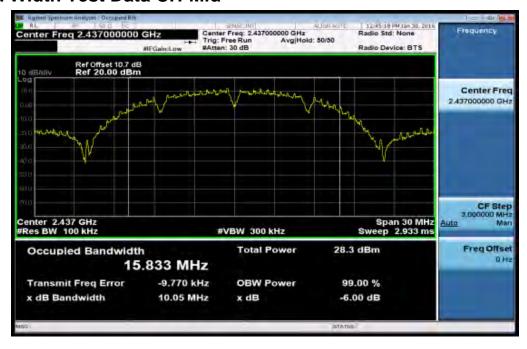
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802.11b (Main) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

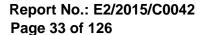


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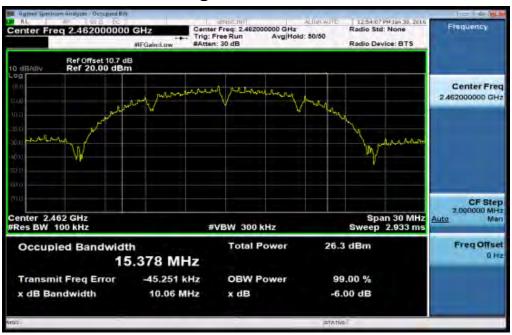
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6dB Band Width Test Data CH-High

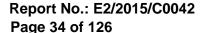


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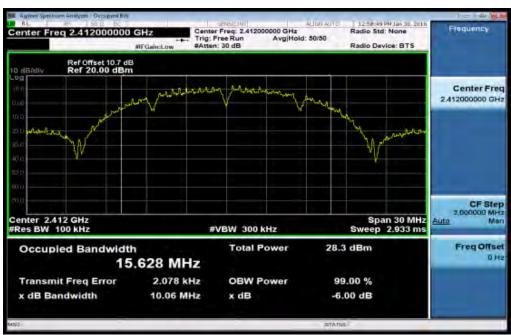
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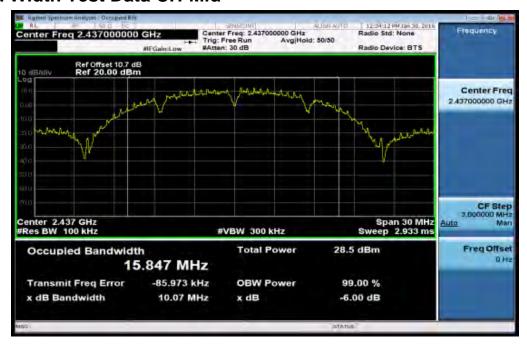
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802.11b (AUX1) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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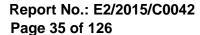
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6dB Band Width Test Data CH-High



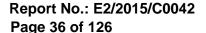
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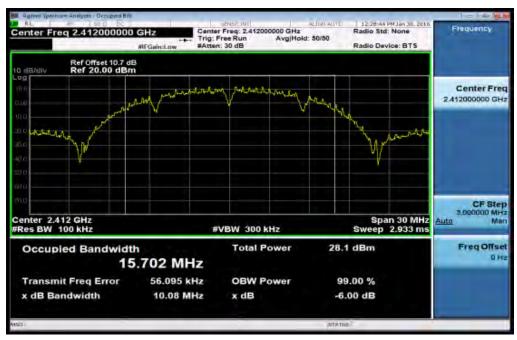
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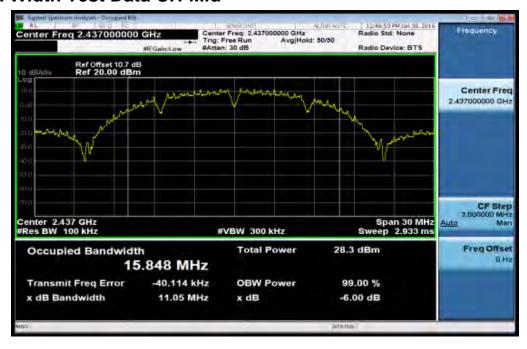




802.11b (AUX2) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

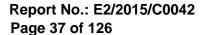


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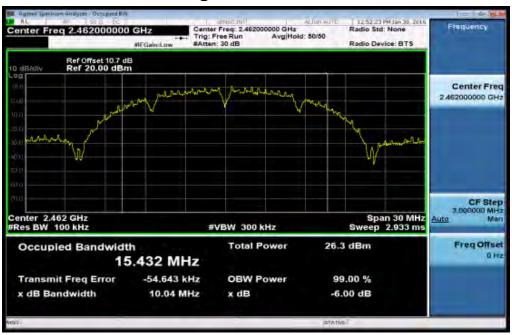
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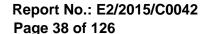
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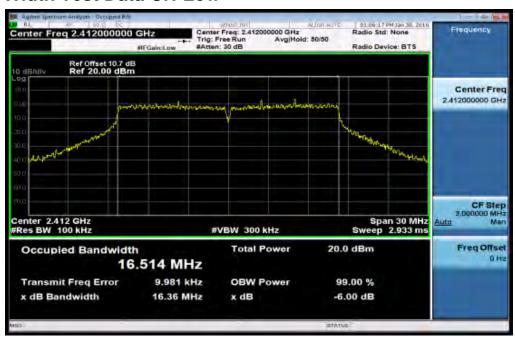
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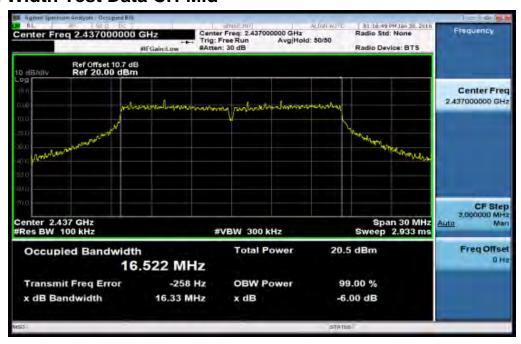




802.11g (Main) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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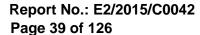
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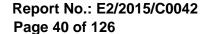




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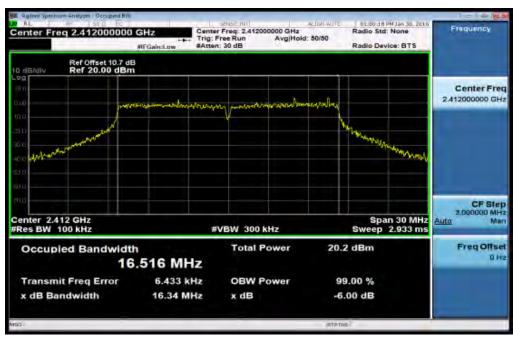
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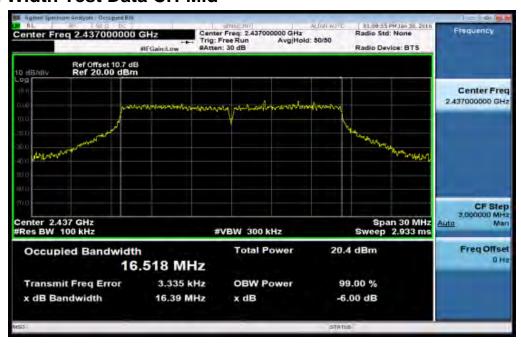


802.11g (AUX1)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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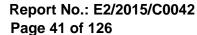
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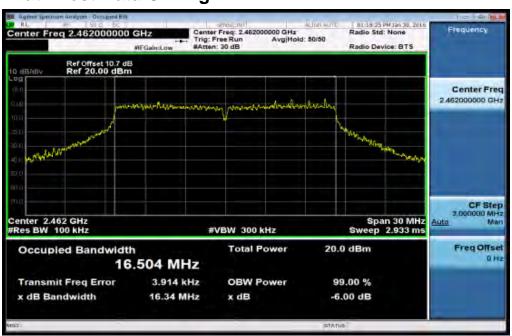
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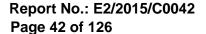


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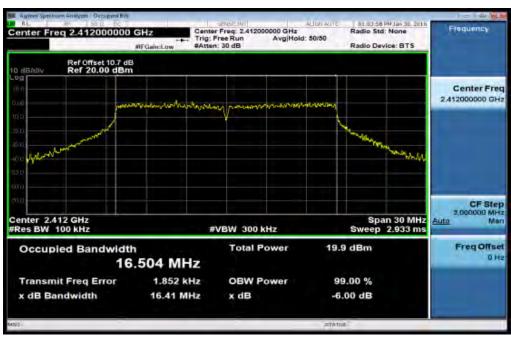
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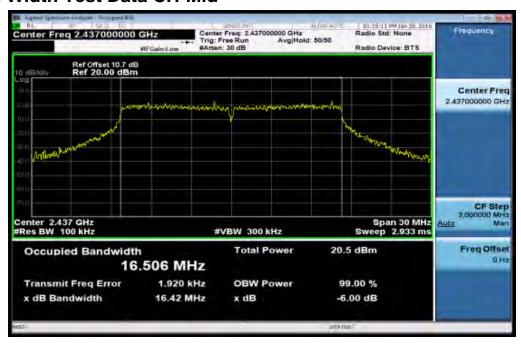


802.11g (AUX2)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

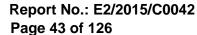


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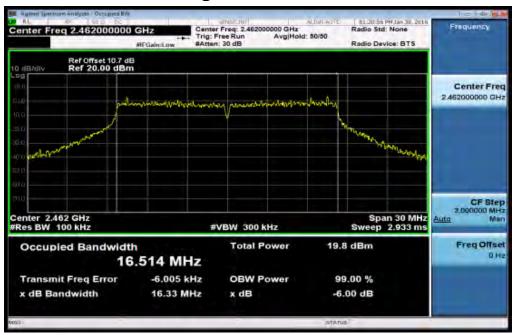
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6dB Band Width Test Data CH-High

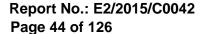


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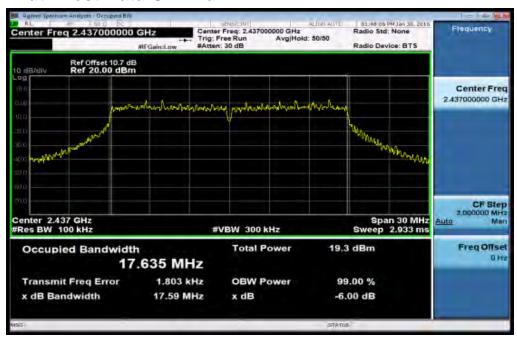




802.11n_20M (Main) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

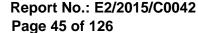


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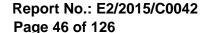
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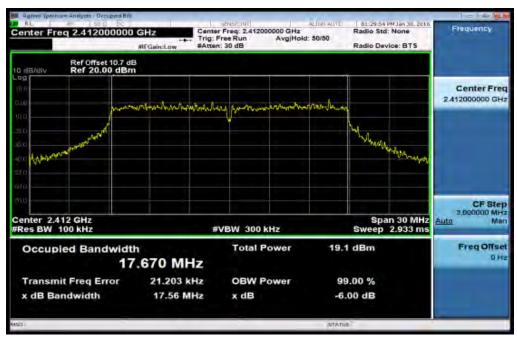
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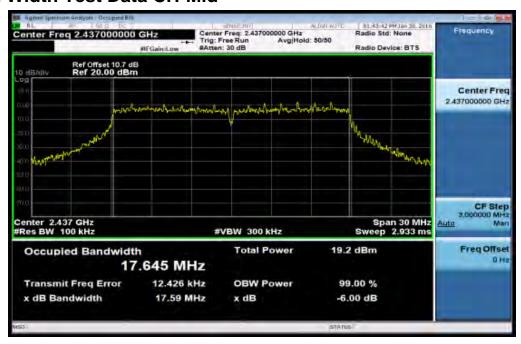




802.11n_20M (AUX1) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



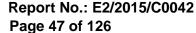
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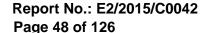
6dB Band Width Test Data CH-High



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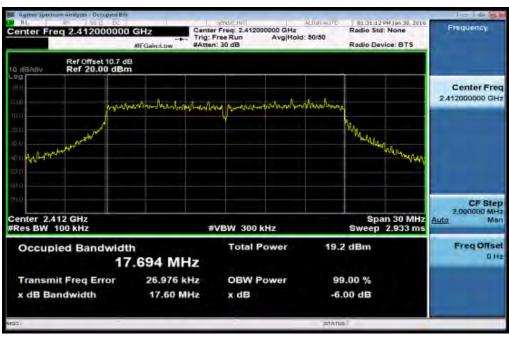
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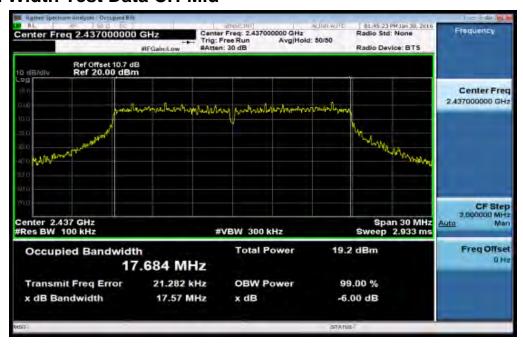




802.11n_20M (AUX2) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



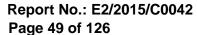
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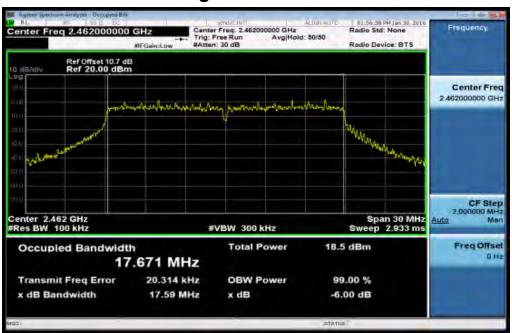
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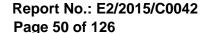


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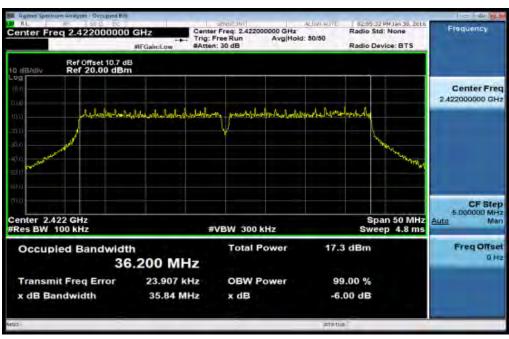
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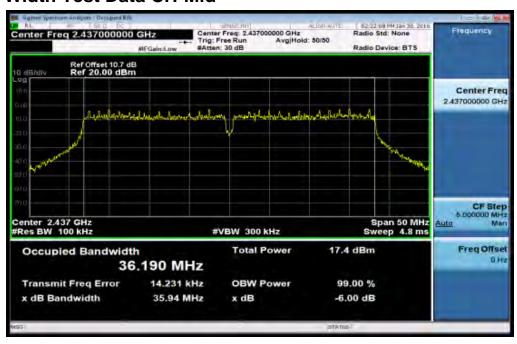




802.11n_40M (Main) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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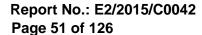
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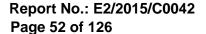




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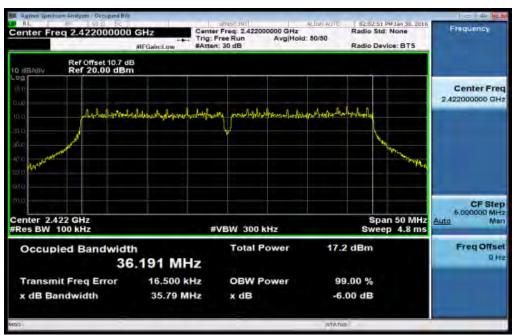
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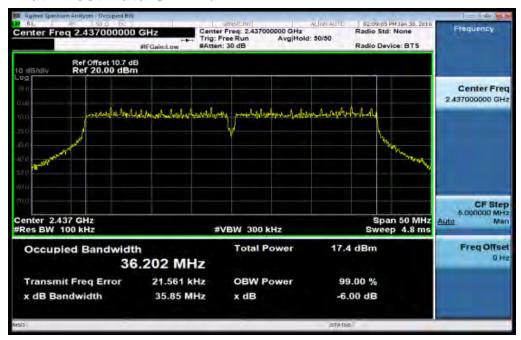




802.11n_40M (AUX1) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

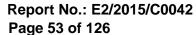


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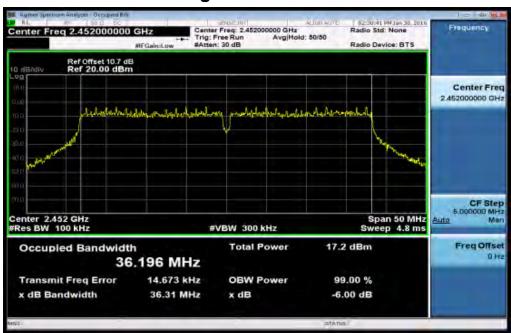
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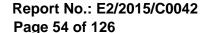


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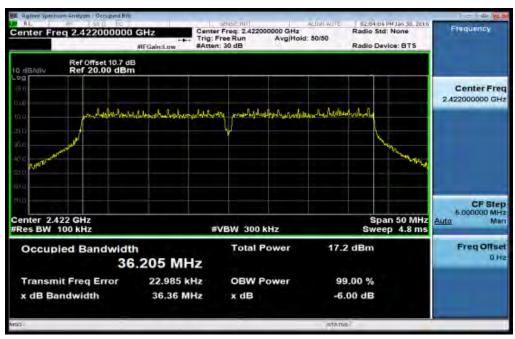
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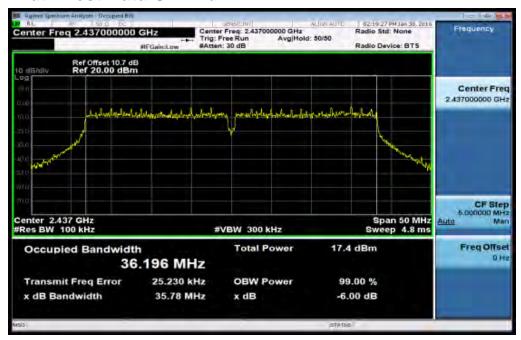




802.11n_40M (AUX2) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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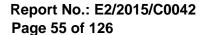
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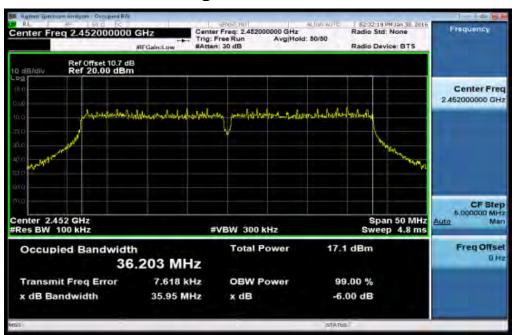
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

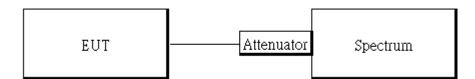
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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. 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).

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

10.2 Measurement Equipment Used

oaoa oo = q po o.o.a.					
Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNACK	PE8210	RF29	12/19/2015	12/18/2016
Attenuator	WOKEN	218FS-10	RF23	12/19/2015	12/18/2016

10.3 Test SET-UP



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10.3.1 Measurement Procedure

Conducted Band Edge:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. 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.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW= 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

10.4 Measurement Result

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

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802.11b **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High

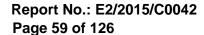


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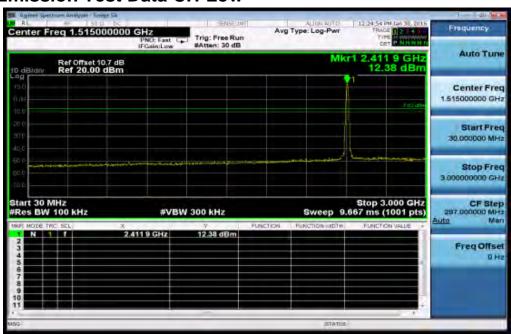
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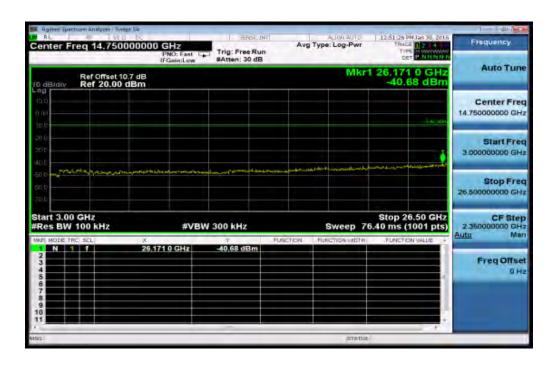
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802.11b **Spurious Emission Test Data CH-Low**





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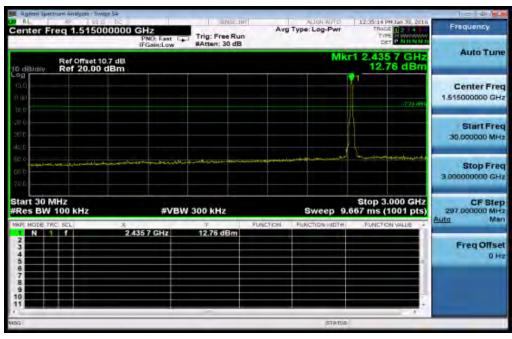
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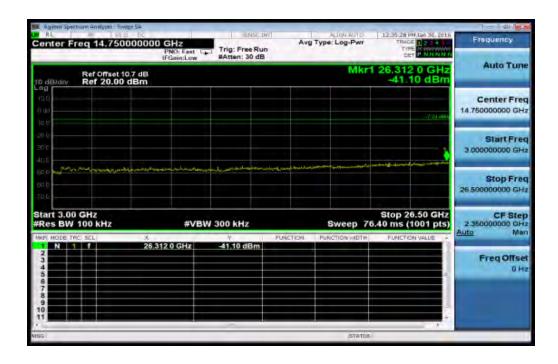
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Spurious Emission Test Data CH-Mid



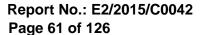


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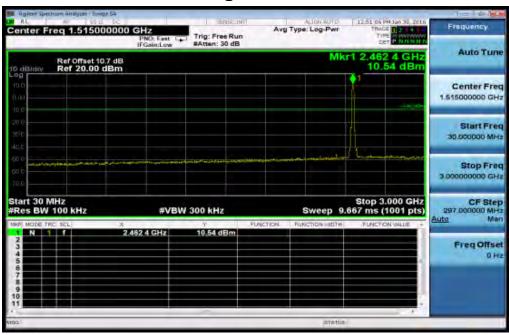
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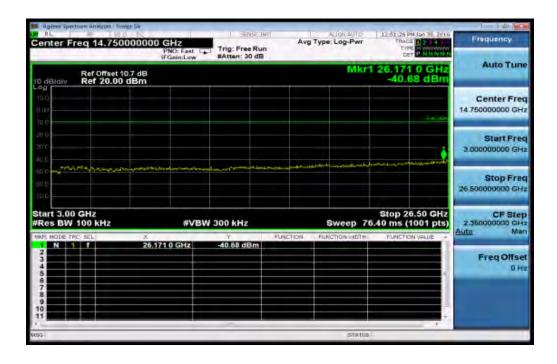
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Spurious Emission Test Data CH-High





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802.11g **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High



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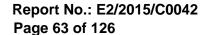
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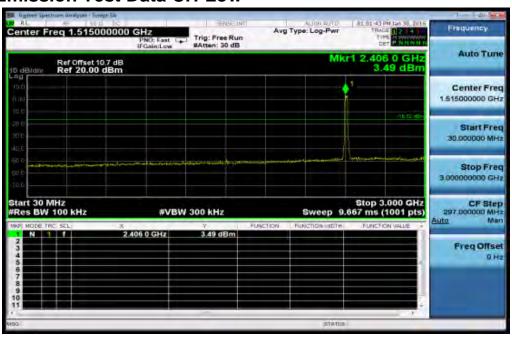
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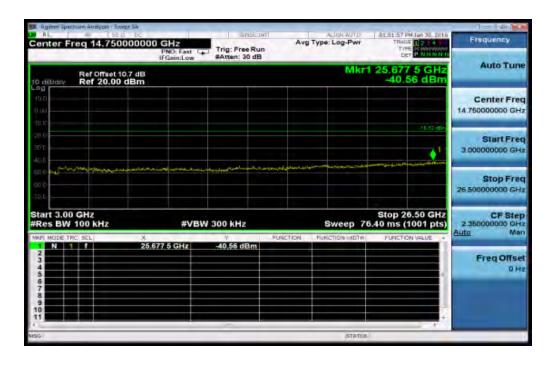
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802.11g **Spurious Emission Test Data CH-Low**





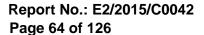
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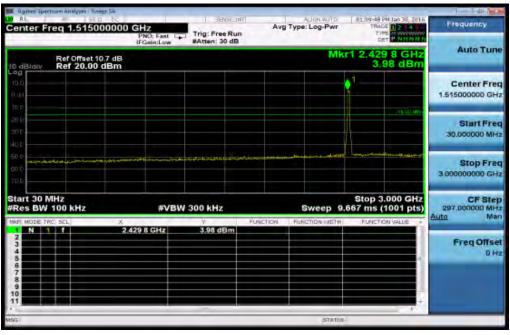
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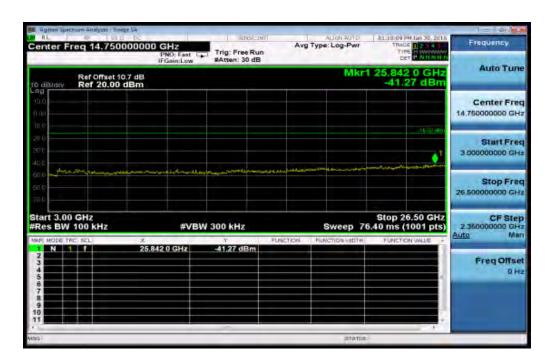
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Spurious Emission Test Data CH-Mid





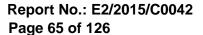
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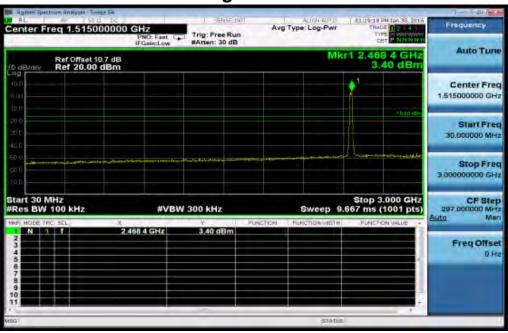
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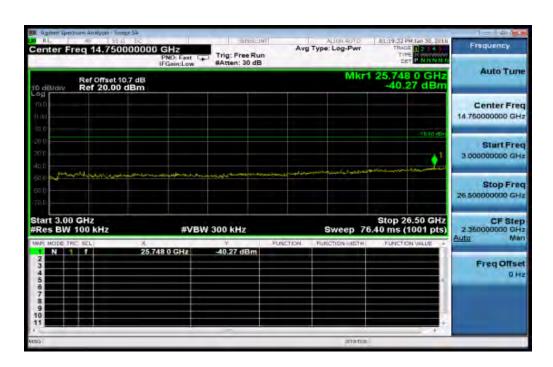
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Spurious Emission Test Data CH-High





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802.11n_HT20 **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High

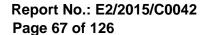


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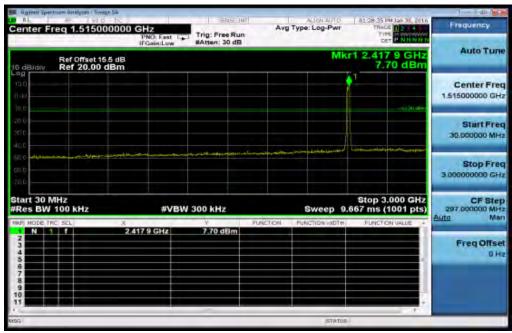
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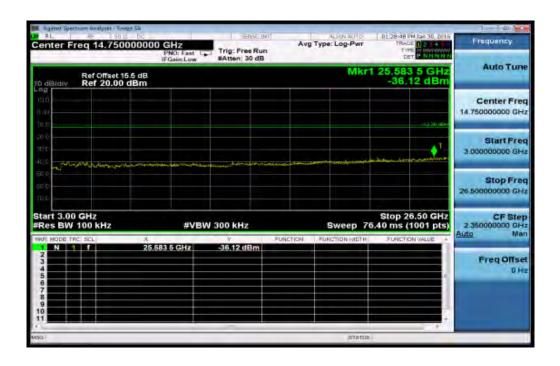
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802.11n_HT20 **Spurious Emission Test Data CH-Low**



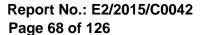


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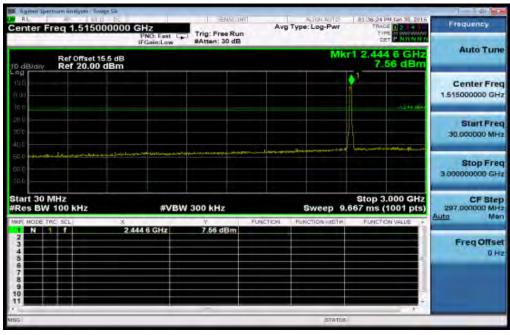
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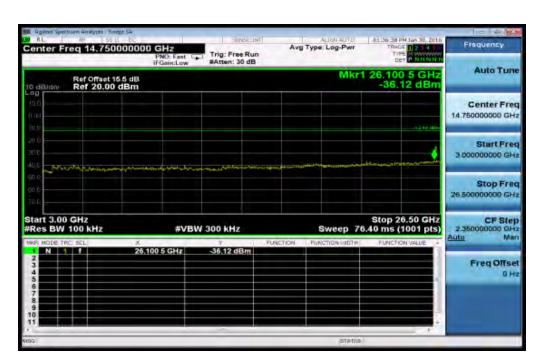
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Spurious Emission Test Data CH-Mid





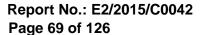
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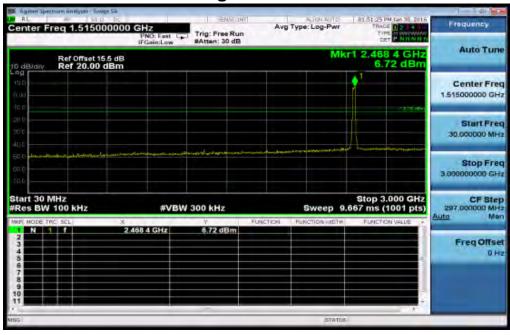
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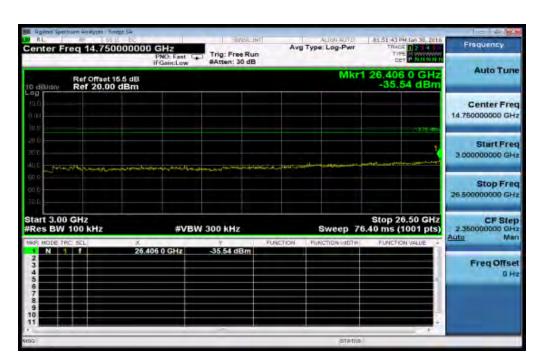
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Spurious Emission Test Data CH-High





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802.11n_HT40 **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High

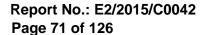


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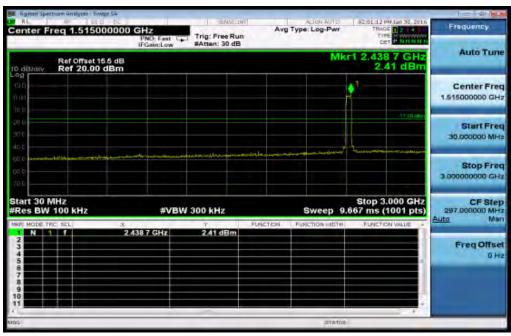
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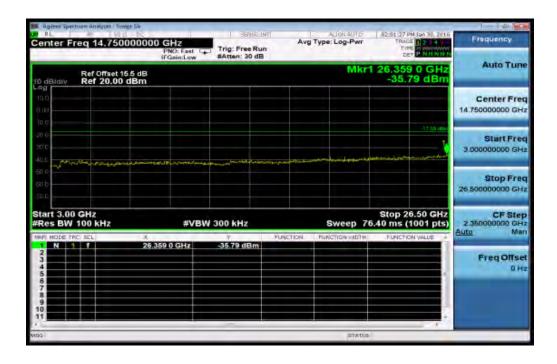
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802.11n_HT40 **Spurious Emission Test Data CH-Low**





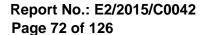
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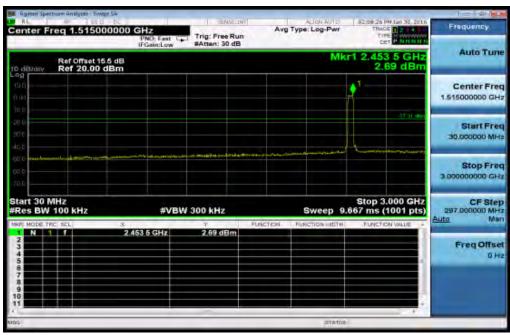
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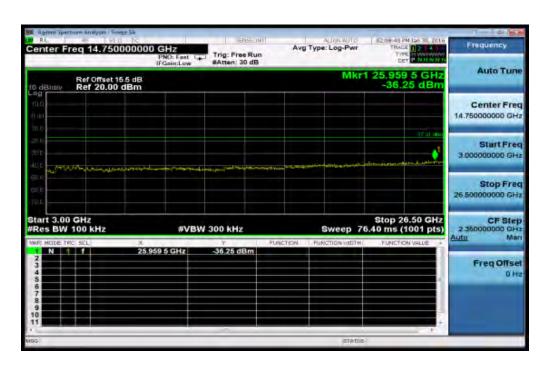
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Spurious Emission Test Data CH-Mid

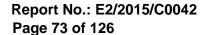




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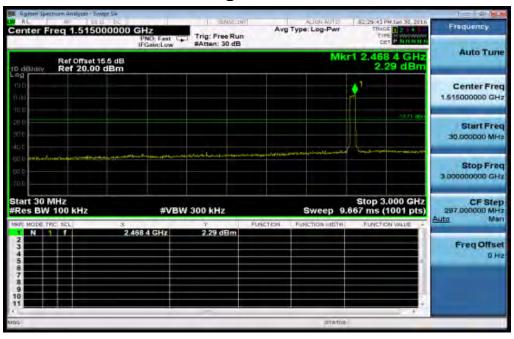
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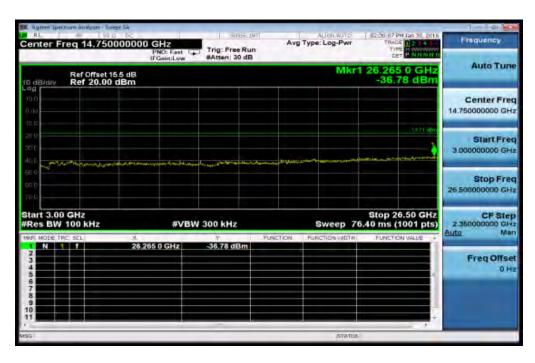
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Spurious Emission Test Data CH-High





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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

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.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

- 1. The lower limit shall apply at the transition frequencies.
- Emission level (dBµV/m) = 20 log Emission level (dBµV/m)

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11.2 Measurement Equipment Used:

	SGS 966 Chamber No.C										
Name of	Manufactures	Madal	Serial	Calibration	Calibration						
Equipment	Manufacturer	Model	Number	Date	Due						
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016						
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2015	12/08/2016						
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2015	12/04/2016						
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2015	12/07/2016						
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016						
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2015	12/18/2016						
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2015	12/18/2016						
Pre Amplifier	R&S	SCU-18	10204	12/19/2015	12/18/2016						
Pre Amplifier	R&S	SCU-26	100780	12/19/2015	12/18/2016						
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2015	12/18/2016						
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2015	12/18/2016						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2015	12/18/2016						
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2015	12/18/2016						
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2015	12/18/2016						
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2015	12/18/2016						
Attenuator	WOKEN	218FS-10	RF27	12/19/2015	12/18/2016						
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016						
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016						
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016						
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.						
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.						
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.						
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.						

NOTE: N.C.R refers to Not Calibrated Required.

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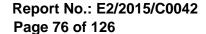
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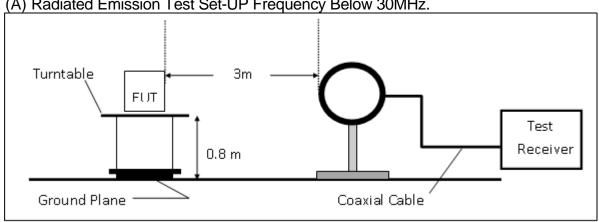
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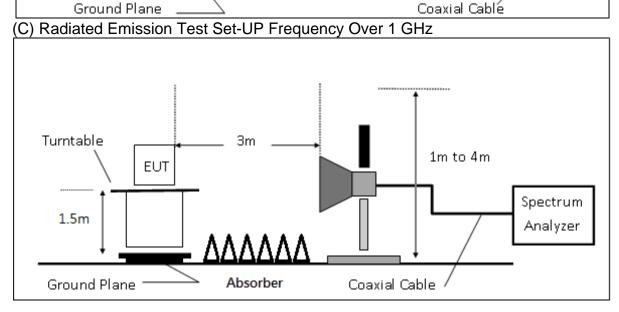


11.3 Test SET-UP

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



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz 3m Turntable 1m to 4m EUT Spectrum 0.8mAnalyzer Ground Plane



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11.3.1 Measurement Procedure

- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. 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.
- 6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 12. Repeat above procedures until all default test channel measured were complete.

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11.4 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	S	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual $FS(dB\mu V/m) = SPA$. Reading level $(dB\mu V) + Factor(dB)$

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.

11.5 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.6 Measurement Result

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

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Radiated Band Edge Measurement Result (802.11b)

Operation Mode: 802.11b Test Date: 2016/1/22

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµ∨	dB	dBµV/m	dBµV/m	dB
2388.48	S	Peak	61.00	6.62	67.61	74	-6.39
2388.48	S	Average	45.48	6.62	52.10	54	-1.90
2390.00	E	Peak	59.40	6.62	66.02	74	-7.98
2390.00	E	Average	46.55	6.62	53.17	54	-0.83

Operation Mode: Test Date: 2016/1/22 802.11b

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector Mode	Spectum 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	Peak	53.48	6.62	60.10	74	-13.90
2390.00	Е	Average	40.13	6.62	46.75	54	-7.25

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Operation Mode: 802.11b Test Date: 2016/1/22

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	59.47	6.96	66.43	74	-7.57
2483.50	Е	Average	46.44	6.96	53.40	54	-0.60

Operation Mode: 802.11b Test Date: 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2462 MHz 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Horizontal E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	48.25	6.96	55.21	74	-18.79
2483.50	E	Average	36.21	6.96	43.17	54	-10.83
2484.30	S	Peak	50.09	6.97	57.05	74	-16.95
2484.30	S	Average	35.55	6.97	42.52	54	-11.48

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode: 802.11g Test Date: 2016/1/5

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Vertical E2

	Freq.	Note	Detector Mode	Spectum 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	Peak	65.98	6.62	72.60	74	-1.40
	2390.00	Е	Average	45.47	6.62	52.09	54	-1.91

Operation Mode: Test Date: 2016/1/5 802.11g

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Horizontal E2

	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
•	2390.00	E	Peak	56.71	6.62	63.33	74	-10.67
	2390.00	E	Average	37.64	6.62	44.26	54	-9.74

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Operation Mode: 802.11g Test Date: 2016/1/5

Fundamental Frequency: Temp. / Humi.: 22.7deg_C/57RH 2462 MHz

Operation Band: BE CH High Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	65.51	6.96	72.48	74	-1.52
2483.50	Е	Average	45.14	6.96	52.10	54	-1.90

Operation Mode: Test Date: 2016/1/5 802.11g

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Horizontal E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	E	Peak	56.54	6.96	63.50	74	-10.50
2483.50	Е	Average	37.83	6.96	44.79	54	-9.21

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode: 802.11 n20 Test Date: 2016/1/5

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum 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	Peak	66.09	6.62	72.71	74	-1.29
2390.00	Е	Average	45.51	6.62	52.13	54	-1.87

Operation Mode: Test Date: 2016/1/5 802.11n20

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: Measurement Antenna Pol.: Horizontal E2

	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
	2390.00	Е	Peak	54.16	6.62	60.78	74	-13.22
	2390.00	E	Average	36.44	6.62	43.06	54	-10.94

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Operation Mode: 802.11n20 Test Date: 2016/1/5

Fundamental Frequency: Temp. / Humi.: 22.7deg_C/57RH 2462 MHz

Operation Band: Test Engineer: BE CH High Pony EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2483.50	Е	Peak	64.03	6.96	70.99	74	-3.01
2483.50	E	Average	43.94	6.96	50.90	54	-3.10

Operation Mode :	802.11n20	Test Date :	2016/1/5
Fundamental Frequency:	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer:	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal

	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
•	2483.50	E	Peak	52.86	6.96	59.82	74	-14.18
	2483.50	Е	Average	34.93	6.96	41.89	54	-12.11

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Radiated Band Edge Measurement Result (802.11_HT40)

802.11 n40 Operation Mode: Test Date: 2016/1/5

Fundamental Frequency: 2422 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2385.00	S	Peak	66.58	6.62	73.20	74	-0.80
2385.00	S	Average	39.39	6.62	46.01	54	-7.99
2390.00	E	Peak	61.98	6.62	68.60	74	-5.40
2390.00	Е	Average	40.36	6.62	46.98	54	-7.02

Operation Mode: 802.11n40 Test Date: 2016/1/5

Fundamental Frequency: 2422 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Pony Measurement Antenna Pol.: EUT Pol.: E2 Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2385.60	S	Peak	53.91	6.62	60.53	74	-13.47
2385.60	S	Average	34.42	6.62	41.04	54	-12.96
2390.00	Е	Peak	50.42	6.62	57.04	74	-16.96
2390.00	E	Average	34.88	6.62	41.50	54	-12.50

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Operation Mode: 802.11n40 Test Date: 2016/1/5

Fundamental Frequency: Temp. / Humi.: 2452 MHz 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Pony EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
2483.50	Е	Peak	64.68	6.96	71.65	74	-2.35
2483.50	E	Average	41.06	6.96	48.02	54	-5.98
2487.70	S	Peak	64.04	6.98	71.02	74	-2.98
2487.70	S	Average	40.09	6.98	47.07	54	-6.93

Operation Mode: 802.11n40 Test Date: 2016/1/5

Fundamental Frequency: 2452 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Pony Measurement Antenna Pol.: EUT Pol.: E2 Horizontal

	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
•	2483.50	Е	Peak	53.14	6.96	60.10	74	-13.90
	2483.50	E	Average	35.19	6.96	42.15	54	-11.85

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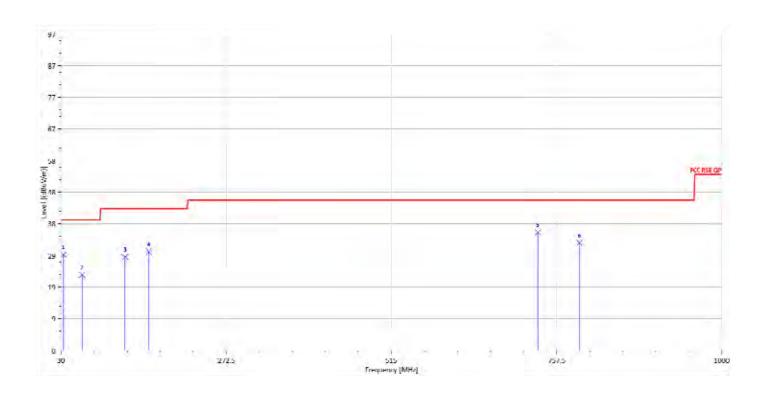
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Radiated Spurious Emission Measurement Result (802.11 g) **Below 1GHz Worst-Case Data:**

Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spe ctum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
33.88	S	Peak	44.65	-15.22	29.43	40	-10.57
61.04	S	Peak	51.60	-28.42	23.18	40	-16.82
124.09	S	Peak	50.09	-21.39	28.70	43.5	-14.80
159.01	S	Peak	53.42	-23.10	30.33	43.5	-13.17
730.34	S	Peak	46.82	-10.64	36.18	46	-9.82
791.45	S	Peak	42.70	-9.76	32.95	46	-13.05

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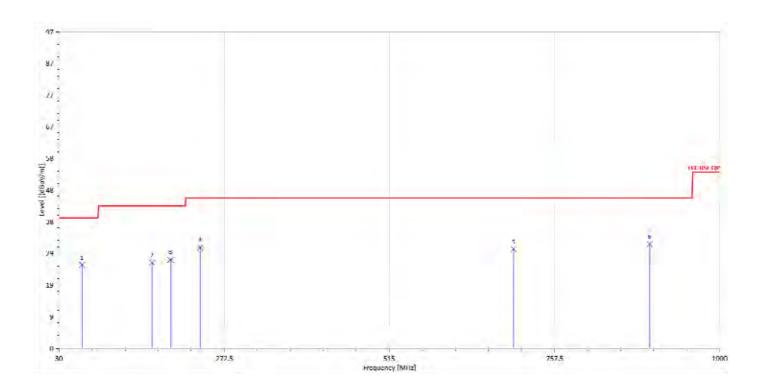


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Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
63.95	S	Peak	53.83	-28.21	25.62	40	-14.38
166.77	S	Peak	49.93	-23.63	26.29	43.5	-17.21
193.93	S	Peak	50.95	-23.82	27.13	43.5	-16.37
237.58	S	Peak	52.28	-21.41	30.87	46	-15.13
697.36	S	Peak	41.40	-11.09	30.31	46	-15.69
897.18	S	Peak	40.14	-8.23	31.91	46	-14.09

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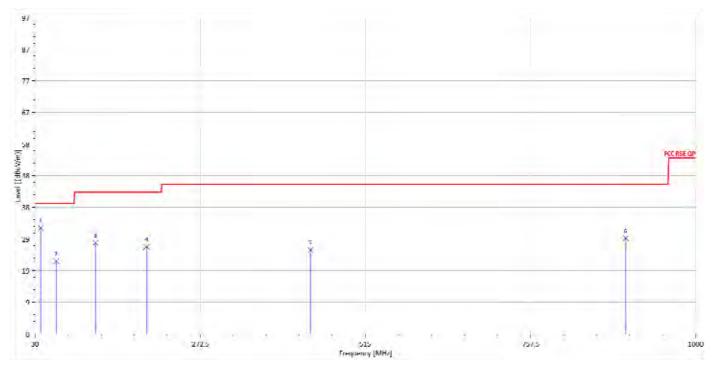


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Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
38.73	S	Peak	50.77	-18.19	32.58	40	-7.42
61.04	S	Peak	50.76	-28.42	22.34	40	-17.66
119.24	S	Peak	49.51	-21.51	28.00	43.5	-15.50
193.93	S	Peak	50.53	-23.82	26.71	43.5	-16.79
434.49	S	Peak	41.22	-15.43	25.79	46	-20.21
897.18	S	Peak	37.65	-8.23	29.42	46	-16.58

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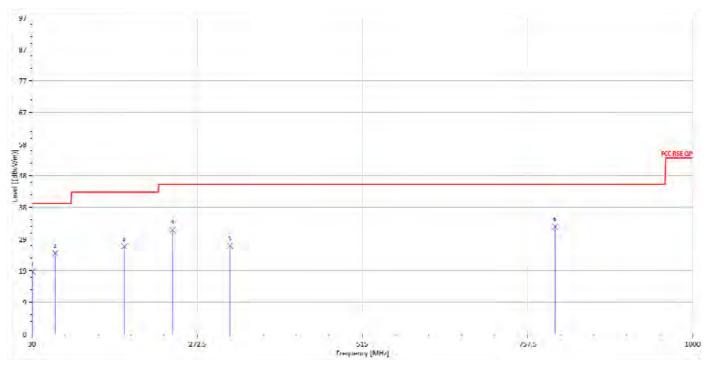


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Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
30.97	S	Peak	32.73	-13.64	19.09	40	-20.91
63.95	S	Peak	52.99	-28.21	24.78	40	-15.22
165.80	S	Peak	50.44	-23.56	26.88	43.5	-16.62
236.61	S	Peak	53.42	-21.50	31.92	46	-14.08
321.00	S	Peak	45.65	-18.59	27.06	46	-18.94
798.24	S	Peak	42.47	-9.55	32.92	46	-13.08

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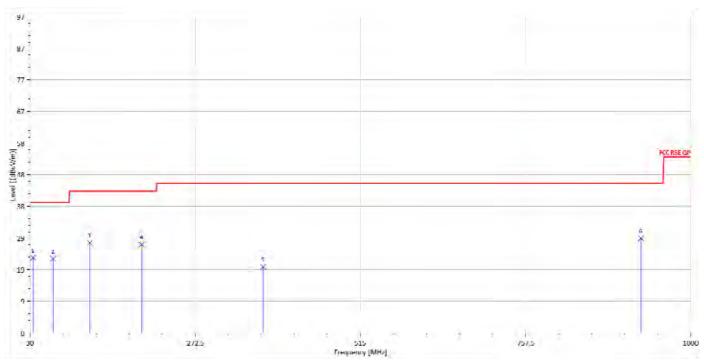


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Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @ 3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
34.85	S	Peak	38.83	-15.75	23.08	40	-16.92
63.95	S	Peak	50.94	-28.21	22.73	40	-17.27
118.27	S	Peak	49.27	-21.60	27.67	43.5	-15.83
193.93	S	Peak	50.95	-23.82	27.13	43.5	-16.37
372.41	S	Peak	36.95	-16.73	20.22	46	-25.78
927.25	S	Peak	36.72	-7.64	29.08	46	-16.92

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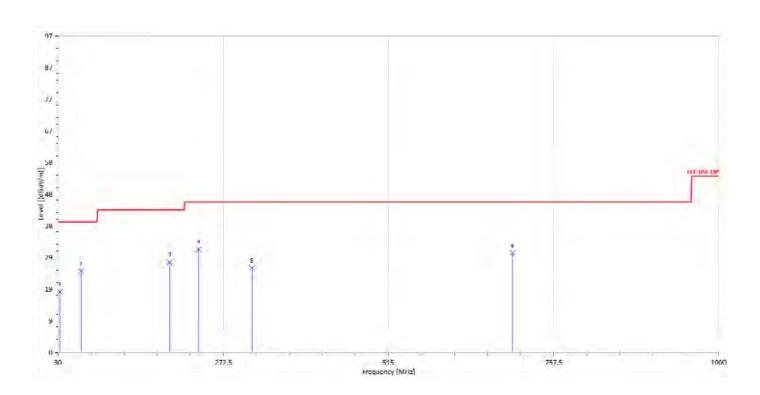


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Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: **Horizontal** E2



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
32.91	S	Peak	33.24	-14.69	18.55	40	-21.45
63.95	S	Peak	53.07	-28.21	24.85	40	-15.15
193.93	S	Peak	51.40	-23.82	27.58	43.5	-15.92
236.61	S	Peak	52.99	-21.50	31.49	46	-14.51
315.18	S	Peak	44.48	-18.60	25.87	46	-20.13
697.36	S	Peak	41.54	-11.09	30.45	46	-15.55

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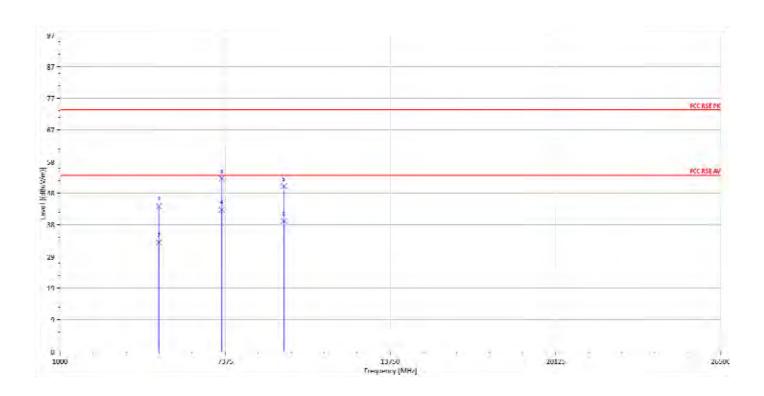
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Radiated Spurious Emission Measurement Result (802.11 b) **Above 1GHz Worst-Case Data:**

Operation Mode: 802.11b Test Date: 2016/1/22

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4824.00	Н	Peak	33.56	10.97	44.53	74	-29.47
4824.00	Н	Average	22.38	10.97	33.35	54	-20.65
7236.00	Н	Peak	37.80	15.27	53.07	74	-20.93
7236.00	Н	Average	28.24	15.27	43.51	54	-10.49
9648.00	Н	Peak	32.97	17.72	50.70	74	-23.30
9648.00	Н	Average	22.26	17.72	39.98	54	-14.02

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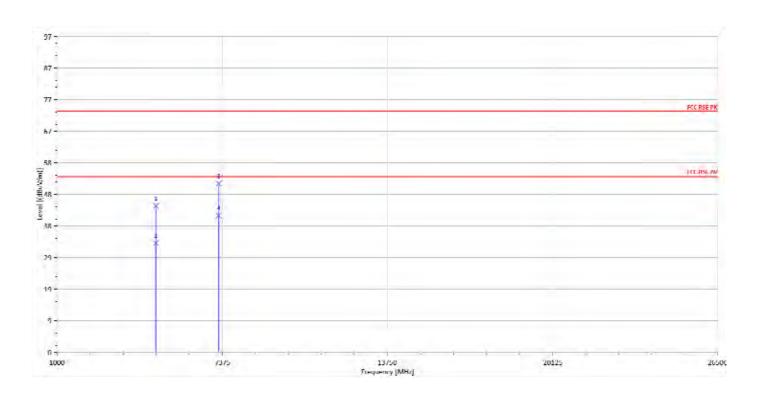


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Operation Mode: Test Date: 802.11b 2016/1/22

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4824.00	Н	Peak	33.98	10.97	44.95	74	-29.05
4824.00	Н	Average	22.57	10.97	33.54	54	-20.46
7236.00	Н	Peak	36.60	15.27	51.87	74	-22.13
7236.00	Н	Average	26.68	15.27	41.95	54	-12.05

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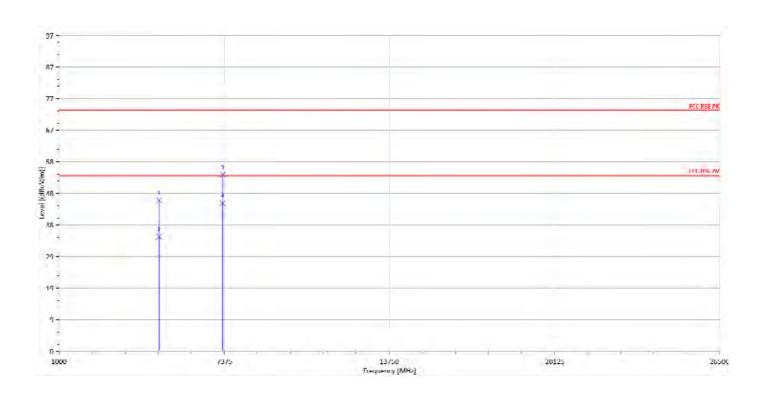


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Operation Mode: Test Date: 802.11b 2016/1/22

Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	35.46	10.89	46.35	74	-27.65
4874.00	Н	Average	24.37	10.89	35.26	54	-18.74
7311.00	Н	Peak	38.95	15.29	54.24	74	-19.76
7311.00	Н	Average	30.16	15.29	45.45	54	-8.55

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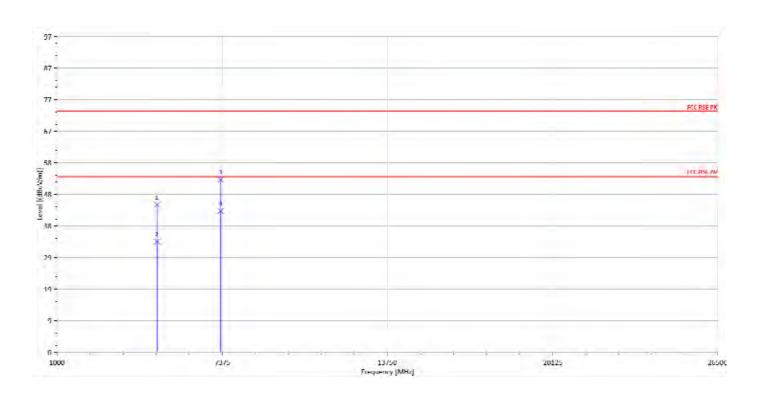


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Operation Mode: Test Date: 802.11b 2016/1/22

Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4874.00	Н	Peak	34.42	10.89	45.31	74	-28.69
4874.00	Н	Average	23.09	10.89	33.98	54	-20.02
7311.00	Н	Peak	37.78	15.29	53.07	74	-20.93
7311.00	Н	Average	28.06	15.29	43.35	54	-10.65

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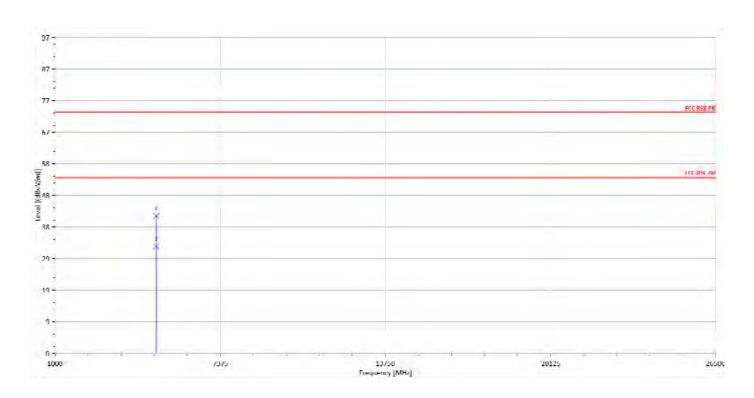


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Operation Mode: Test Date: 2016/1/22 802.11b

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
4924.00	Н	Peak	31.21	10.98	42.18	74	-31.82
4924.00	Н	Average	21.90	10.98	32.88	54	-21.12

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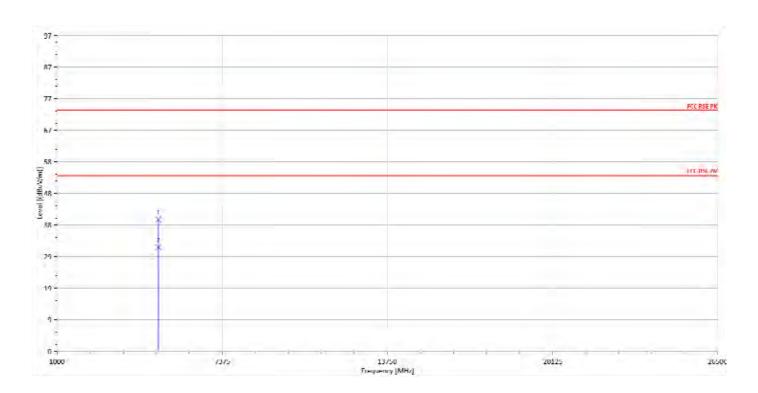


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Operation Mode: Test Date: 2016/1/22 802.11b

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4924.00	Н	Peak	29.48	10.98	40.45	74	-33.55
4924.00	Н	Average	20.95	10.98	31.93	54	-22.07

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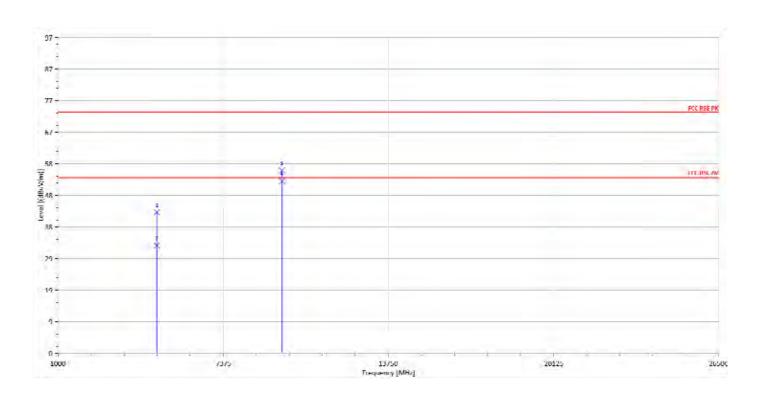
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4824.00	Н	Peak	32.30	10.97	43.27	74	-30.73
4824.00	Н	Average	22.13	10.97	33.10	54	-20.90
9648.00	Н	Peak	38.38	17.72	56.10	74	-17.90
9648.00	Н	Average	35.19	17.72	52.91	54	-1.09

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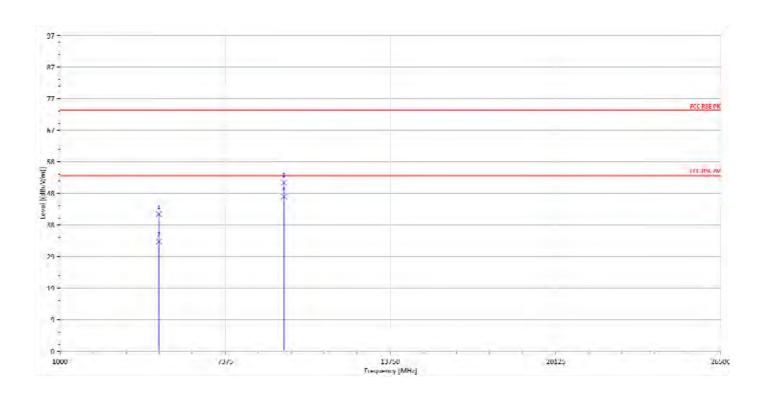


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Operation Mode: Test Date: 802.11g 2016/1/22

Fundamental Frequency: 2412 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
4824.00	Н	Peak	31.12	10.97	42.09	74	-31.91
4824.00	Н	Average	22.76	10.97	33.73	54	-20.27
9648.00	Н	Peak	34.09	17.72	51.81	74	-22.19
9648.00	Н	Average	29.83	17.72	47.55	54	-6.45

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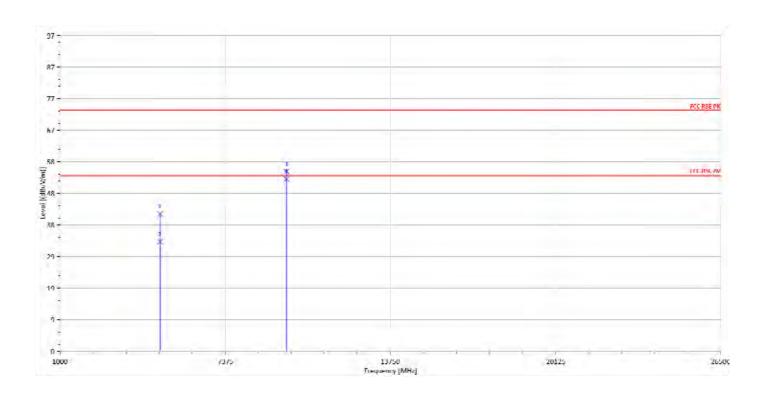


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Operation Mode: 802.11g Test Date: 2016/1/25

Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4874.00	Н	Peak	31.23	10.89	42.11	74	-31.89
4874.00	Н	Average	22.81	10.89	33.70	54	-20.30
9748.00	Н	Peak	37.26	17.89	55.14	74	-18.86
9748.00	Н	Average	35.10	17.89	52.99	54	-1.01

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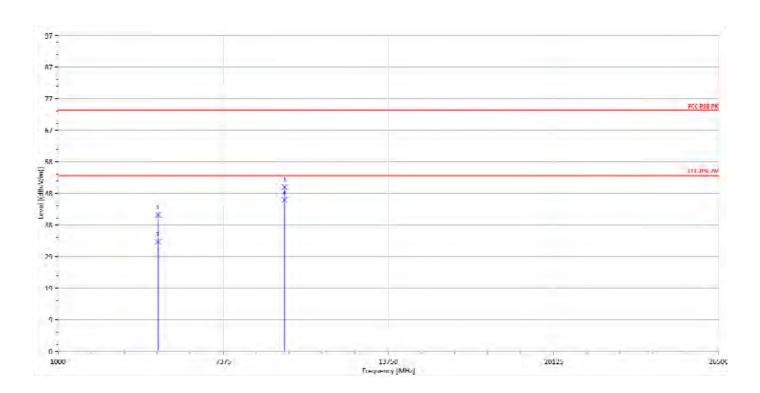


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Operation Mode: 802.11g Test Date: 2016/1/22

Fundamental Frequency: 2437 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4874.00	Н	Peak	31.01	10.89	41.89	74	-32.11
4874.00	Н	Average	22.76	10.89	33.65	54	-20.35
9748.00	Н	Peak	32.57	17.89	50.46	74	-23.54
9748.00	Н	Average	28.64	17.89	46.53	54	-7.47

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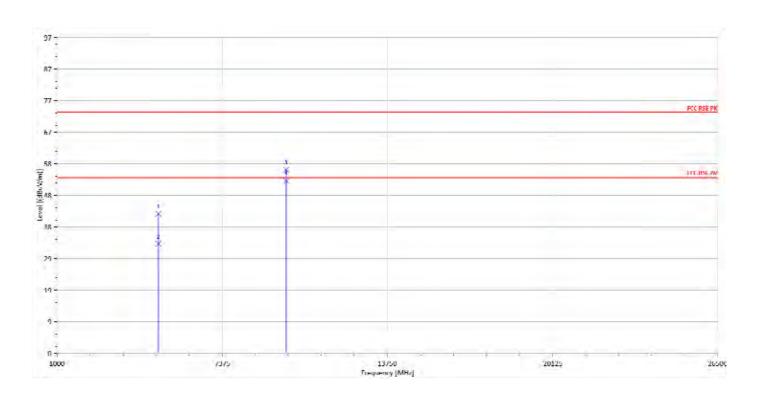


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Operation Mode: Test Date: 2016/1/22 802.11g

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
4924.00	Н	Peak	31.82	10.98	42.79	74	-31.21
4924.00	Н	Average	22.66	10.98	33.64	54	-20.36
9848.00	Н	Peak	38.19	18.11	56.29	74	-17.71
9848.00	Н	Average	34.89	18.11	53.00	54	-1.00

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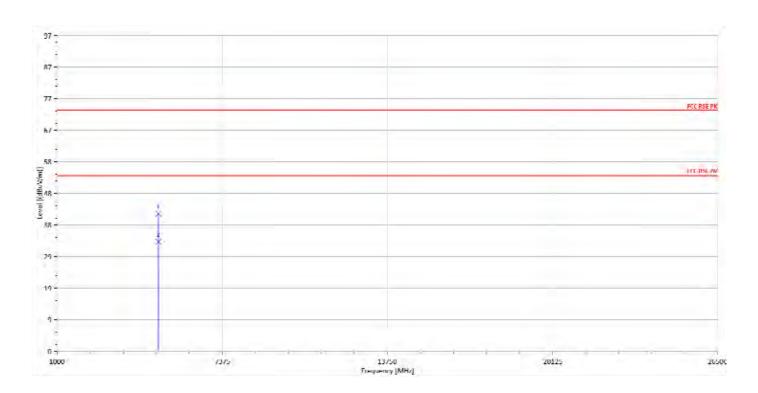


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Operation Mode: Test Date: 2016/1/22 802.11g

Fundamental Frequency: 2462 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	31.23	10.98	42.21	74	-31.79
4924.00	Н	Average	22.63	10.98	33.61	54	-20.39

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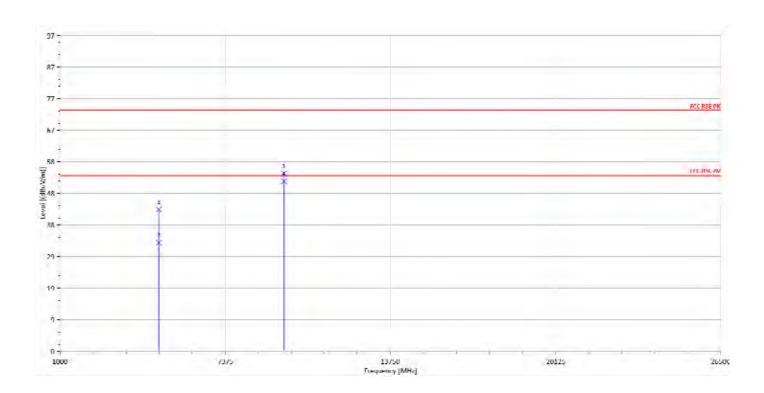
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode: 802.11n20 Test Date: 2016/1/22

Fundamental Frequency: 2412 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
4824.00	Н	Peak	32.53	10.97	43.50	74	-30.50
4824.00	Н	Average	22.41	10.97	33.38	54	-20.62
9648.00	Н	Peak	36.85	17.72	54.57	74	-19.43
9648.00	Н	Average	34.52	17.72	52.24	54	-1.76

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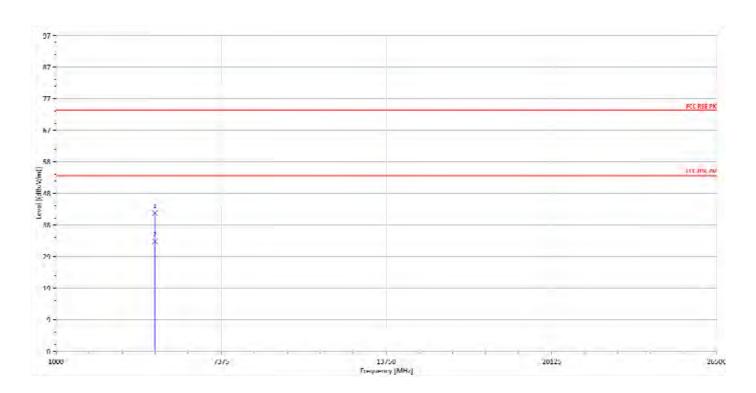


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Operation Mode: Test Date: 802.11n20 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2412 MHz 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dΒμV/m	dB
4824.00	Н	Peak	31.41	10.97	42.38	74	-31.62
4824.00	Н	Average	22.80	10.97	33.77	54	-20.23

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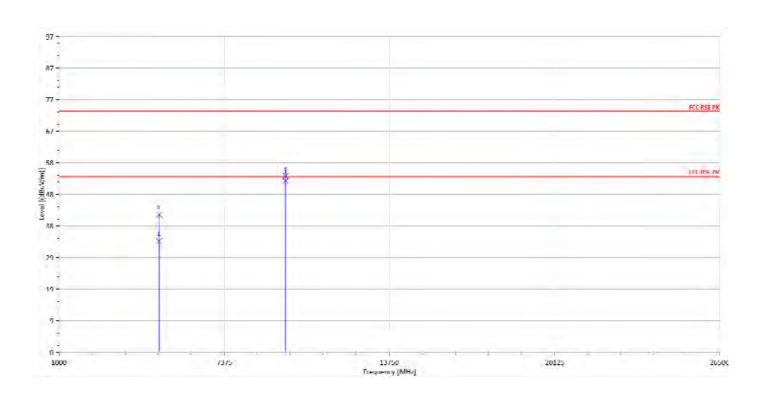


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Operation Mode: Test Date: 802.11n20 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2437 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
4874.00	Н	Peak	31.29	10.89	42.18	74	-31.82
4874.00	Н	Average	23.28	10.89	34.17	54	-19.83
9748.00	Н	Peak	36.25	17.89	54.13	74	-19.87
9748.00	Н	Average	34.80	17.89	52.69	54	-1.31

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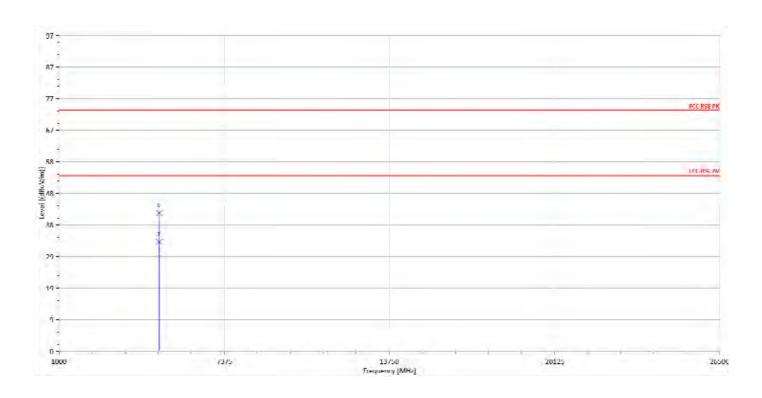


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Operation Mode: Test Date: 802.11n20 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2437 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
4874.00	Н	Peak	31.29	10.89	42.18	74	-31.82
4874.00	Н	Average	23.28	10.89	34.17	54	-19.83
9748.00	Н	Peak	36.25	17.89	54.13	74	-19.87
9748.00	Н	Average	34.80	17.89	52.69	54	-1.31

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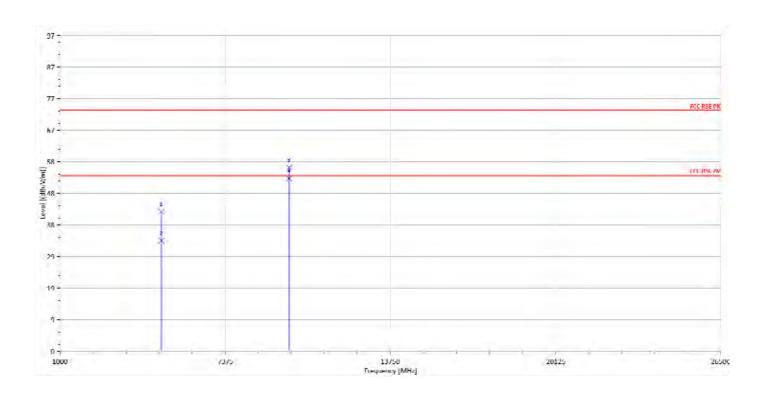


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Operation Mode: Test Date: 802.11n20 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2462 MHz 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dΒμV/m	dBµV/m	dB
4924.00	Н	Peak	31.89	10.98	42.86	74	-31.14
4924.00	Н	Average	23.03	10.98	34.01	54	-19.99
9848.00	Н	Peak	38.30	18.11	56.41	74	-17.59
9848.00	Н	Average	35.03	18.11	53.14	54	-0.86

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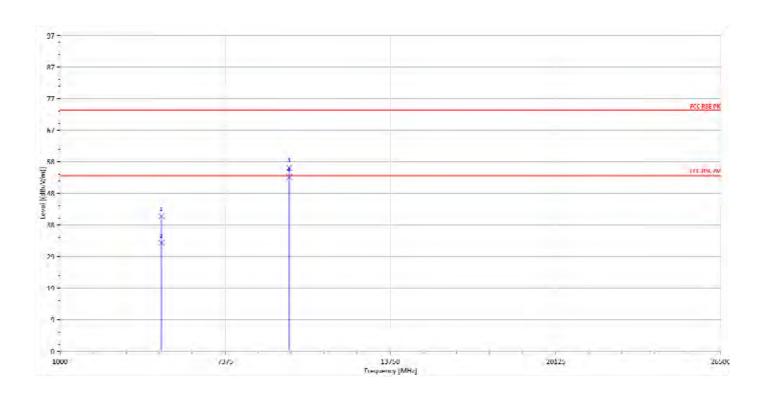


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Operation Mode: Test Date: 802.11n20 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2462 MHz 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4924.00	Н	Peak	30.44	10.98	41.42	74	-32.58
4924.00	Н	Average	22.35	10.98	33.33	54	-20.67
9848.00	Н	Peak	38.20	18.11	56.30	74	-17.70
9848.00	Н	Average	35.44	18.11	53.55	54	-0.45

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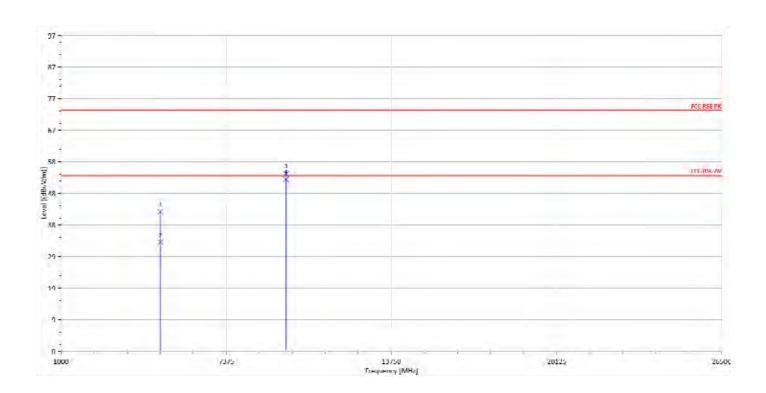
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode: 802.11n40 Test Date: 2016/1/25

22.7deg_C/57RH Fundamental Frequency: 2422 MHz Temp. / Humi.:

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
4844.00	Н	Peak	31.87	10.93	42.80	74	-31.20
4844.00	Н	Average	22.56	10.93	33.49	54	-20.51
9688.00	Н	Peak	36.62	17.88	54.50	74	-19.50
9688.00	Н	Average	34.97	17.88	52.85	54	-1.15

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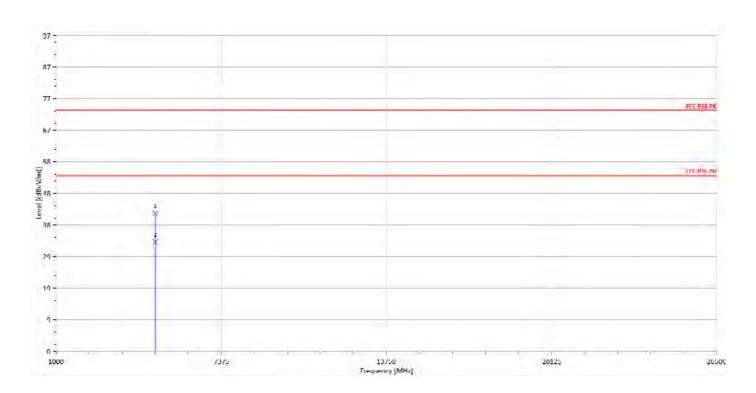


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Operation Mode: Test Date: 802.11n40 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2422 MHz 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
-	4844.00	Н	Peak	31.36	10.93	42.29	74	-31.71
	4844.00	Н	Average	22.67	10.93	33.60	54	-20.40

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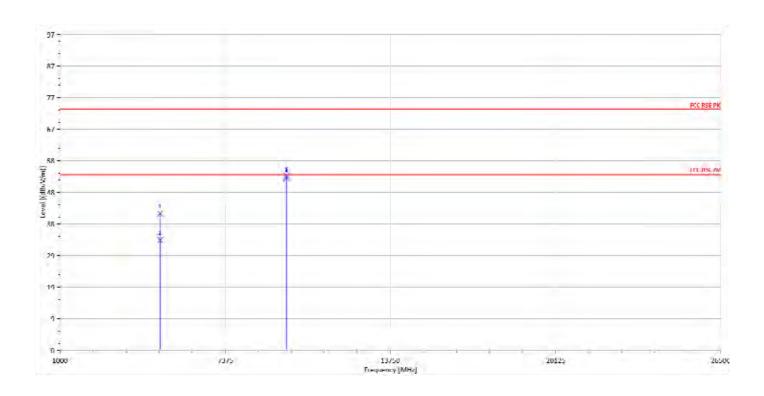


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Operation Mode: Test Date: 802.11n40 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2437 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	31.05	10.89	41.94	74	-32.06
4874.00	Н	Average	22.97	10.89	33.86	54	-20.14
9748.00	Н	Peak	35.64	17.89	53.52	74	-20.48
9748.00	Н	Average	34.98	17.89	52.87	54	-1.13

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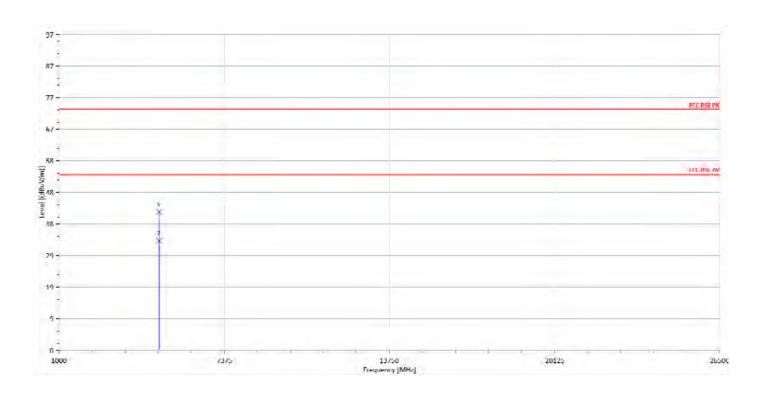


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Operation Mode: Test Date: 802.11n40 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2437 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4874.00	Н	Peak	31.05	10.89	41.94	74	-32.06
4874.00	Н	Average	22.97	10.89	33.86	54	-20.14
9748.00	Н	Peak	35.64	17.89	53.52	74	-20.48
9748.00	Н	Average	34.98	17.89	52.87	54	-1.13

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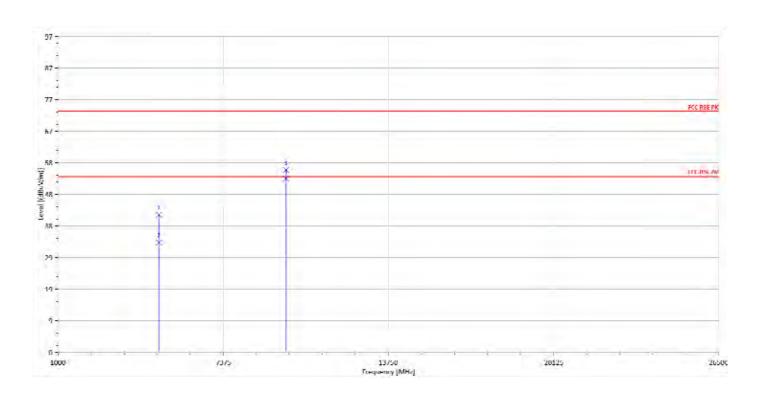


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Operation Mode: Test Date: 802.11n40 2016/1/22

Temp. / Humi.: Fundamental Frequency: 2452 MHz 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dΒμV/m	dB
4904.00	Н	Peak	31.19	10.98	42.16	74	-31.84
4904.00	Н	Average	22.69	10.98	33.67	54	-20.33
9808.00	Н	Peak	37.90	18.02	55.92	74	-18.08
9808.00	Н	Average	35.32	18.02	53.34	54	-0.66

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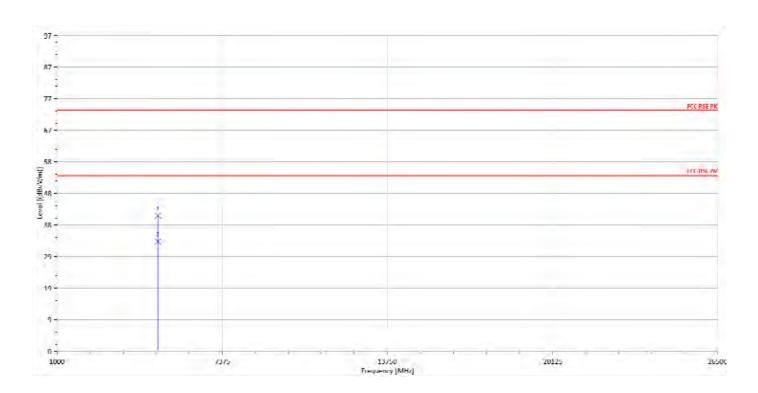


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Operation Mode: Test Date: 802.11n40 2016/1/22

Fundamental Frequency: Temp. / Humi.: 2452 MHz 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4904.00	Н	Peak	30.63	10.98	41.60	74	-32.40
4904.00	Н	Average	22.70	10.98	33.68	54	-20.32

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12 PEAK POWER SPECTRAL DENSITY

12.1 Standard Applicable

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

Note:

Antenna Gain: 5.44 dBi 3 pcs Number Antenna: Limit: 8 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as belo Directional gain = gain of antenna element + 10 log (# of TX antenna element

Effective Legacy Gain (dBi) = 5.44+4.77=10.21dBi

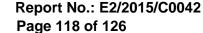
Limit: 8dBm - (10.21-6dBi)=3.79dBm

12.2 Measurement Equipment Used

mode and more Equipment Good									
Conducted Emission Test Site									
EQUIPMENT MFR MODEL SERIAL LAST CAL					CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016				
DC Block	PASTERNACK	PE8210	RF29	12/19/2015	12/18/2016				
Attenuator	WOKEN	218FS-10	RF23	12/19/2015	12/18/2016				

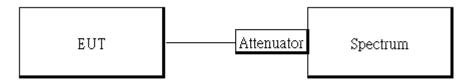
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12.3 Test Set-up



12.4 Measurement Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz.
- 5. Set the VBW = 10 kHz.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.
- 11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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12.5 Measurement Result

POWER DENSITY 802.11b MODE							
Frequency	RF Power	Maximum					
(MHz)	Density	Limit	Result				
(IVIITIZ)	(dBm)	(dBm)					
2412	-1.51	8.00	PASS				
2437	-0.99	8.00	PASS				
2462	-3.59	8.00	PASS				

POWER DENSITY 802.11g MODE							
Frequency	RF Power	Maximum					
(MHz)	Density	Lim it	Result				
(IVIITIZ)	(dBm)	(dBm)					
2412	-10.50	8.00	PASS				
2437	-10.04	8.00	PASS				
2462	-10.74	8.00	PASS				

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	RF Power	Maximum					
	Density	Limit	Result				
(IVIITIZ)	(dBm)	m) (dBm)					
2412	-7.55	3.79	PASS				
2437	-7.66	3.79	PASS				
2462	-8.48	3.79	PASS				

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power	Maximum	
	Density	Lim it	Result
	(dBm)	(dBm)	
2422	-12.67	3.79	PASS
2437	-12.22	3.79	PASS
2452	-12.27	3.79	PASS

^{*}Refer to next page for plots

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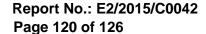
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

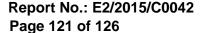


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Power Spectral Density Test Plot (CH-High)



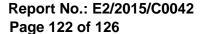
802.11g **Power Spectral Density Test Plot (CH-Low)**



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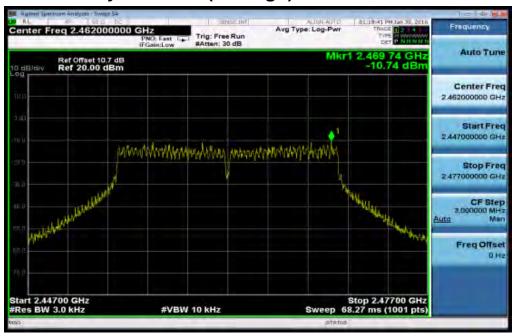




Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



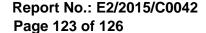
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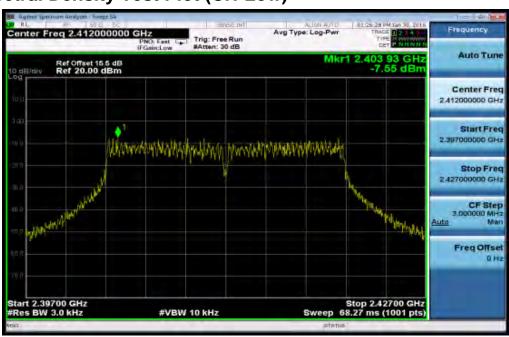
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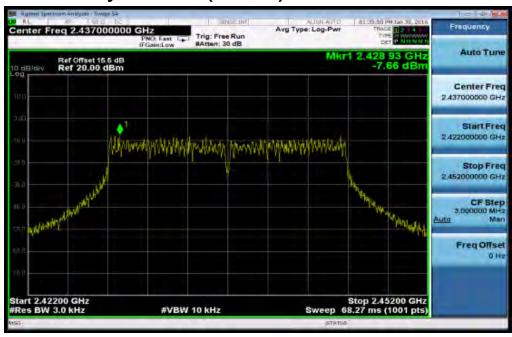


802.11n_HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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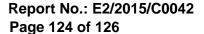
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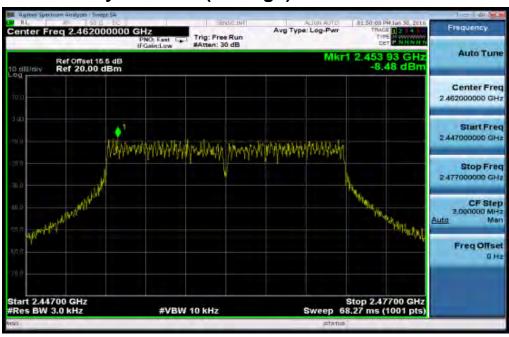
台灣檢驗科技股份有限公司

f (886-2) 2298-0488





Power Spectral Density Test Plot (CH-High)



802.11n_HT40

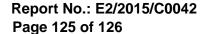
Power Spectral Density Test Plot (CH-Low)



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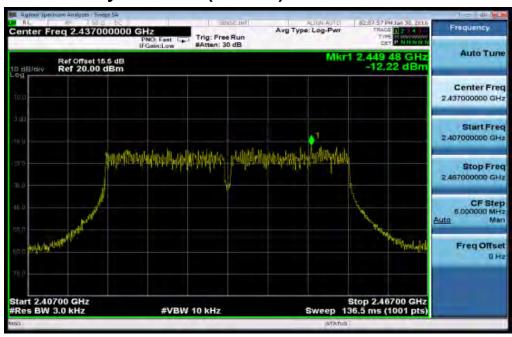
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 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.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

Dipole antenna designs are used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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