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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

0F

Product Name: Wireless Interactive Presentation Gateway

Brand Name: wePresent

Model No.: WiPG-1600w

Model Difference: N/A

FCC ID: 2AAEDWP16W17

Report No.: E2/2017/40099

Issue Date: Jun. 03, 2017

FCC Rule Part: §15.247, Cat: DTS

Barco NV

Prepared for: President Kennedypark 35, 8500 Kortrijk,

Belgium

SGS Taiwan Ltd.

Prepared by: Electronics & Communication Laboratory

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

Taoyuan County, Taiwan 333





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VERIFICATION OF COMPLIANCE

Barco NV Applicant:

President Kennedypark 35, 8500 Kortrijk, Belgium

Product Name: Wireless Interactive Presentation Gateway

wePresent **Brand Name:**

WiPG-1600w Model No.:

Model Difference: N/A

FCC ID: 2AAEDWP16W17

File Number: E2/2017/40099

Date of test: Feb. 09, 2015 ~ Aug. 12, 2015

Date of EUT Received: Feb. 09, 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:	Lazz Huang	Date	Jun. 03, 2017
	Jazz Huang /Asst. supervisor		
Prepared By:	Karen Huang	Date	Jun. 03, 2017
Approved By:	Karen Huang / Clerk Lang Jim Chang / Asst. Manager	- Date	Jun. 03, 2017

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/40099	Rev.00	Initial creation of document	Jun. 03, 2017

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GENERAL INFORMATION

Product description

General:

Product Name:	Wireless Interactive Presentation Gateway		
Brand Name:	wePreser	nt	
Model No.:	WiPG-160	00w	
Model Difference:	N/A		
Product SW/HW version:	N/A / WM8750-1 ver:1.0		
Radio SW/HW version:	N/A		
Test SW Version:	N/A		
RF power setting in TEST SW:	: N/A		
	5Vdc from AC/DC adapter		
Power Supply:	Adapter:	 Model No.: 3A-154WP05 Supplier.: ENG Electronics Model No.: 6A-161WP05 Supplier: ENG Electronics 	

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology		
11b/g	2412-2462	11	b: 21.15dBm g: 24.14dBm	DSSS, OFDM		
11n	HT20 2412-2462	11	HT20: 20.75dBm	OFDM		
11n	HT40 2422-2452	7	HT40: 18.98dBm	OFDM		
Antenna De	esignation:	Dipole Antenna, Gain: 2.0dBi P/N: AN2450-4828RS, Supplier: N/A				
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
Transition Rate:		802.11 g: u 802.11 n_2	p to 11 Mbps; p to 54 Mbps 0MHz: up to 72.2Mbps 0MHz: up to 135Mbps			

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance V03r02

ANSI C63.10:2013

Note:

- 1. All test items have been performed and record as per the above standards.
- 2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.
- The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63, 10:2013

1.3 Test Facility

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

FCC Registration Numbers are: 735305 (Hwaya)

Canada Registration Number: 4620A.

1.4 Special Accessories

There are no special accessories used while test was conducted.

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.

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. 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 §15.107. 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 which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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 0.6 dB and 10 dB attenuator.

Offset = RF cable loss (dB)+ attenuation factor(dB) =0.6+10=10.6(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated & AC Power Line Conducted Emission

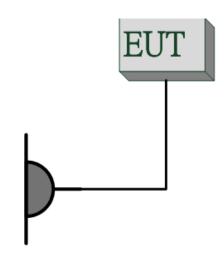


Fig. 2-2 Conducted (Antenna Port) Configuration

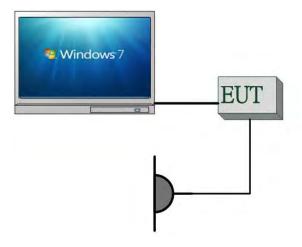


Table 2-1 Equipment Used in Tested System

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	L430	R9-YYG88	Shielded	Un-shielded

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission Complia	
§15.247(b) (3)	Peak Output Power Complia	
§15.247(a)(2)	6dB 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

DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz Band

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

	- 1		
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	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 MHz		

9 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz		
5	2432 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	6.5	MAIN	
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	13.5	MAIN	

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 E1 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	6.5	MAIN
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	13.5	MAIN

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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
Magazirament uncertainti	180MHz -417MHz: +/- 3.19dB
Measurement uncertainty (Polarization : Vertical)	0.417GHz-1GHz: +/- 3.19dB
(i dianzation : Vertical)	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB
	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB

	30MHZ - 10/MHZ. +/- 4.22UB
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.

Frequency range		nits (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 3	101311	06/20/2014	06/19/2015					
LISN	Schwarzbeck	NSLK 8127	8127-648	06/10/2014	06/09/2015					
LISN	Rolf-Heine	NNB-2/16Z	99012	03/26/2014	03/25/2015					
Coaxial Cables	N/A	N30N30-1042-150c m	N/A	01/06/2015	01/07/2016					

EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2014	12/11/2015
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.

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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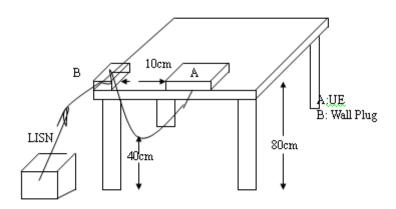


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6.3 EUT Setup

- 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.

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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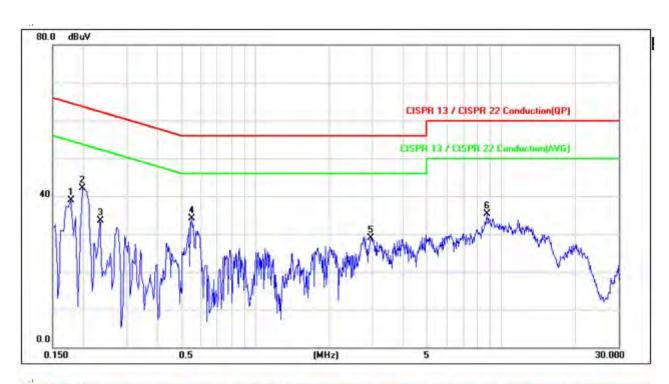
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Mar. 02, 2015	
Temperature:	19 ℃	Humidity:	62 %	Test By:	Tin
Adapter:	3A-154WP05				



No	Mk	Frequa	Reading	Factor	Measurement.	Limit.	Overa	Detector.	Comment.
3		(MHz).	dBuV	(dB).	(dBuV)	(dBuX)	(dB).	-5	л
15	- 3	0.1780.,	38.94.,	0.05.,	38.99.	64.58.1	-25.59.	peak.	,in
2.1	*	0.1980.,	42.11.	0.04.	42.15.	63.69.	-21.54.,	peak.	31
3.,		0.2340.,	33.37.	0.05.	33.42.,	62.31.	-28.89.,	peak.	.is
4.	- 57	0.5540.	33.96.	0.20.	34.16.,	56.00.	-21.84.,	peak.	-31
5.,	- 6	2.9580.,	28.43.	0.51.	28.94.	56.00.	-27.06.,	peak.	in .
6.1	- 3	8.7660.	34.87.,	0.48.,	35.35.,	60.00.	-24.65.,	peak.	in

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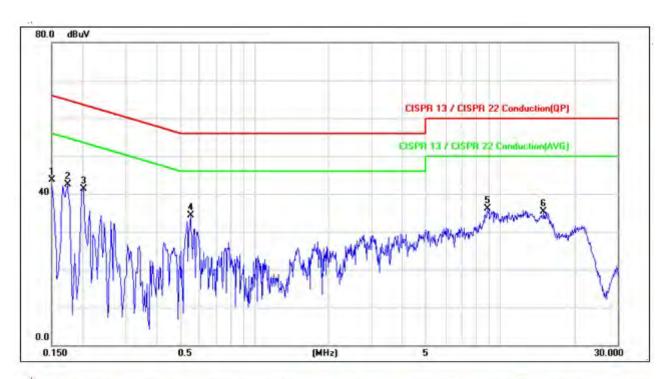
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No	Ma	Frequa	Reading	Factora	Measurement.	Limit	Over.	Detector.	Comments
a	3	(MHz).	dBuV	(dB).	(dBuV)	(dBuV)	(dB)	-1	-7
1.,	-,1	0.1500.,	43.67.	0.05.	43.72.,	66.00.	-22.28.,	peak.	-1
2.	1	0.1740.	42.37.,	0.05.	42.42.	64.77.1	-22.35.	peak.	-3
3.1	-11	0.2020.	41.35.,	0.04.,	41.39.	63.53.	-22.14.	peak	-11
4.1	*	0.5540.	34.04.,	0.20.	34.24.	56.00.	-21.76.	peak.	.7
5.,	- 71	8.8820.	35.60.	0.48.,	36.08.,	60.00.,	-23.92.1	peak.	31
6.1	-,1	15.0100.	34.93.,	0.32.,	35.25.	60.00.	-24.75.	peak.	.1

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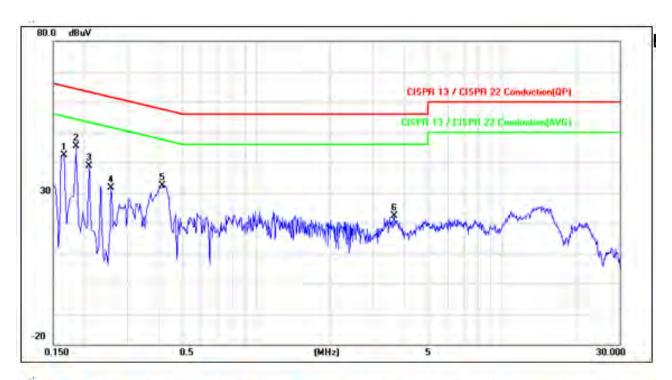
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Operation Mode:	Operation mode		Test Date:	Aug. 06, 2015	
Temperature:	19 ℃	Humidity:	62 %	Test By:	Tin
Adapter:	6A-161WP05				



No.,	ME	Freq.,n	Reading	Facior	Measurement.	Limit	Overa	Detector.	Comment -
-17	-,1	(MHz)	dBuX.	(dB)	(dBuV)	(dBuX)	(dB).	17	- 0
1.5	-51	0.1660.1	42,40.1	0.08.	42.48.	65.16.	-22.68.1	peak.	-,1'
2.4	*.1	0.1860.1	45.21.1	0.07	45.28,	64.21	-18.93.	peak.	a.
35	-00	0.2100.a	38.90 a	0.07	38.97	63.21	-24.24 x	peak.	-1
4.1	41	0.2580.1	31.52.	0.10.	31.62.	61.50.	-29.88.,	peak.,	- á
1.1	- 30	0.4180.	32.29.	0.17	32.46	57.49 a	-25.03	peak.	-40
6.1		3.6460.1	21.81.	0.60	22.41	56.00 a	-33,59.1	peak.	a

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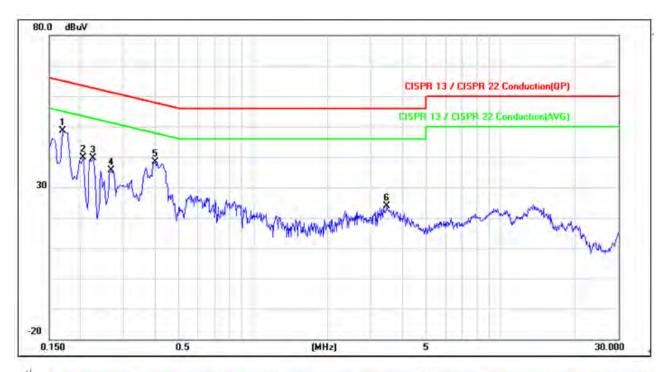
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No.+	Miss	Freq.	Reading	Factor	Measurement+	Limit₽	Overe	Detector	Comment-
+2	6	(MHz)₽	dBuV₽	(dB)-	(dBuV)₽	(dBuV)₽	(dB)₽	÷.	+
1₽	**	0.1700₽	48.57₽	0.14₽	48.71₽	64.96+7	-16.25₽	peak₽	42
2↔	42	0.2060₽	39.79₽	0.13↔	39.92≠	63.37+2	-23.45₽	peak₽	12
3+3	42	0.2260₽	39.52₽	0.14₽	39.66₽	62.60+7	-22.94₽	peak₽	12
40	42	0.2660₽	35.35↔	0.16₽	35.51₽	61.24+7	-25.73↔	peak₽	47
543	42	0.4020₽	38.04₽	0.22₽	38.26₽	57.81←	-19.55₽	peak₽	42
6+P	42	3.4860₽	23.32₽	0.6543	23.9747	56.00+2	-32.03₽	peak↔	47

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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 Fator (dB)
802.11b	1	0
802.11g	1	0
802.11n_20	1	0
802.11n_40	1	0

Duty Cycle Factor: $10 * \log (1/1) = 0$ Duty Cycle Factor: $10 * \log (1/1) = 0$ Duty Cycle Factor: $10 * \log (1/1) = 0$ Duty Cycle Factor: $10 * \log (1/1) = 0$

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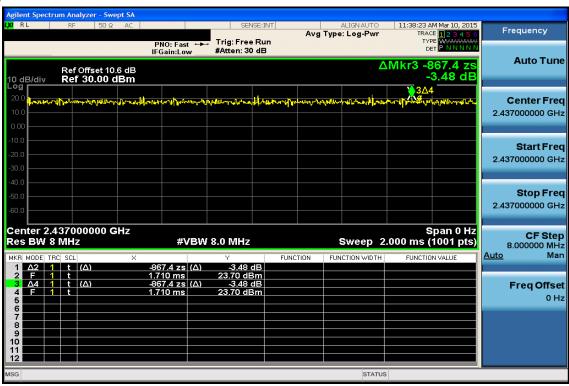
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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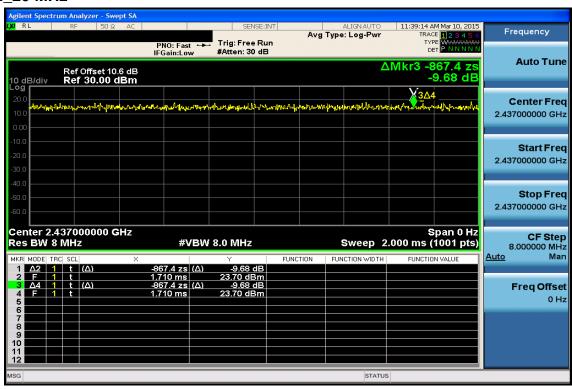
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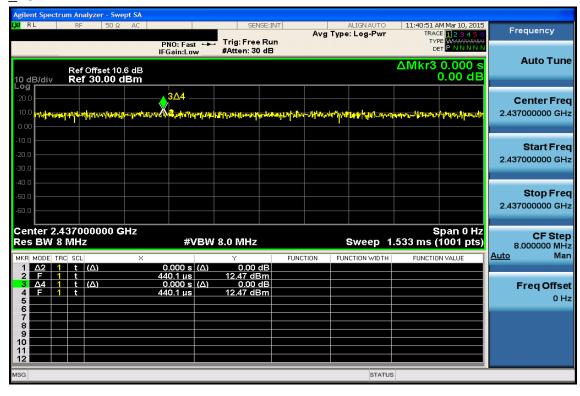


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802.11 n 20 MHz



802.11 n 40 MHz



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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.

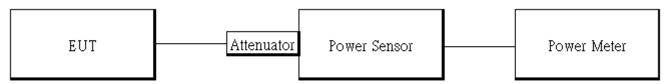
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 **Measurement Equipment Used**

<u>.</u>	·							
Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Power Meter	Anritsu	ML2496A	1326001	06/21/2014	06/20/2015			
Power Sensor	Anritsu	MA2411B	1315048	06/21/2014	06/20/2015			
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015			
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015			

8.3 Test Set-up

Power Meter:



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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 V03r02.
- 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.

8.5 Measurement Result

802.11b

СН	Frequenc y (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit
1	2412	1	21.13	129.72	1 Watt = 30
6	2437	1	21.12	129.42	1 Watt = 30
11	2462	1	21.15	130.32	1 Watt = 30

СН	Frequenc y (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit
1	2412	1	19.34	85.90	1 Watt = 30
6	2437	1	19.32	85.51	1 Watt = 30
11	2462	1	19.36	86.30	1 Watt = 30

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802.11q

СН	Frequenc y (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit
1	2412	6	22.28	169.04	1 Watt = 30
6	2437	6	23.69	233.88	1 Watt = 30
11	2462	6	24.14	259.42	1 Watt = 30

СН	Frequenc y (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit
1	2412	6	14.48	28.05	1 Watt = 30
6	2437	6	15.92	39.08	1 Watt = 30
11	2462	6	16.47	44.36	1 Watt = 30

802.11n_HT20

СН	Frequenc y (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit
1	2412	MCS0	20.07	101.62	1 Watt = 30
6	2437	MCS0	20.49	111.94	1 Watt = 30
11	2462	MCS0	20.75	118.85	1 Watt = 30

СН	Frequenc y (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit
1	2412	MCS0	11.87	15.38	1 Watt = 30
6	2437	MCS0	12.41	17.42	1 Watt = 30
11	2462	MCS0	13.05	20.18	1 Watt = 30

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802.11n HT40

СН	Frequenc y (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit
3	2422	MCS0	18.74	74.82	1 Watt = 30
6	2437	MCS0	18.84	76.56	1 Watt = 30
9	2452	MCS0	18.98	79.07	1 Watt = 30

СН	Frequenc y (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit
3	2422	MCS0	10.33	10.79	1 Watt = 30
6	2437	MCS0	10.36	10.86	1 Watt = 30
9	2452	MCS0	10.48	11.17	1 Watt = 30

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

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6dB BANDWIDTH

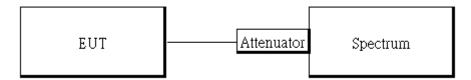
Standard Applicable

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	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015			
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015			
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015			

9.3 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 V03r02.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak,
 - Sweep=auto.
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat above procedures until all frequency of interest measured was complete.

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9.5 **Measurement Result**

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
(141112)	802.	, ,	
2412	12080	> 500	PASS
2437	12070	> 500	PASS
2462	12070	> 500	PASS
	802.	11g	
2412	16450	> 500	PASS
2437	16480	> 500	PASS
2462	16480	> 500	PASS
	802.11r	n_HT20	
2412	17580	> 500	PASS
2437	17600	> 500	PASS
2462	17580	> 500	PASS
	802.11r	n_HT40	
2422	36390	> 500	PASS
2437	36380	> 500	PASS
2452	36390	> 500	PASS

^{*}Refer to next page for plots

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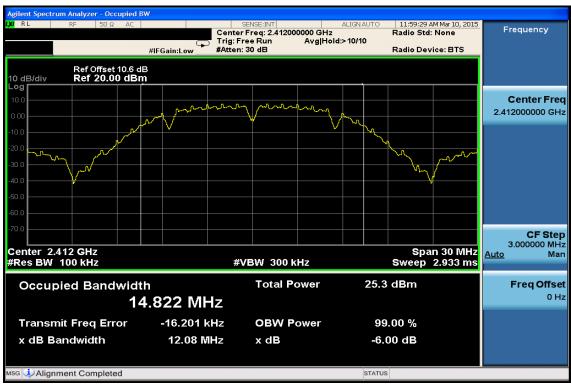
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802.11b 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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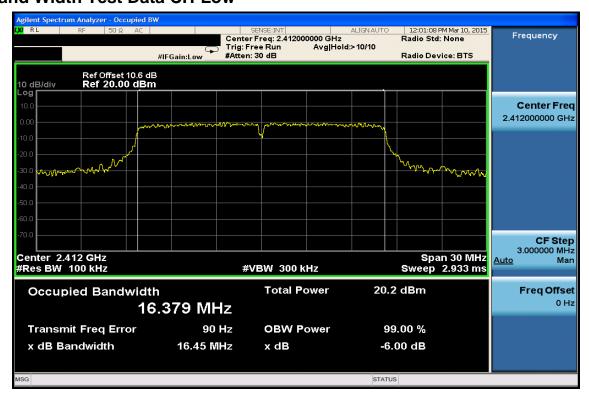
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low



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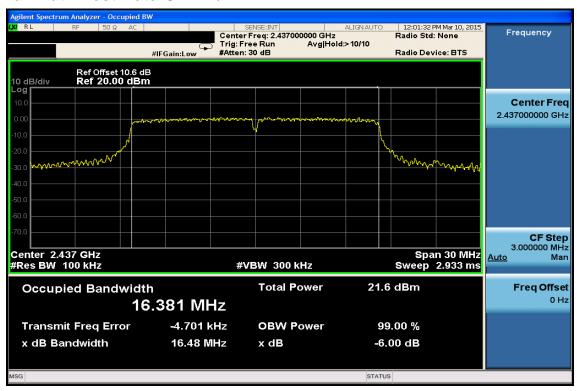
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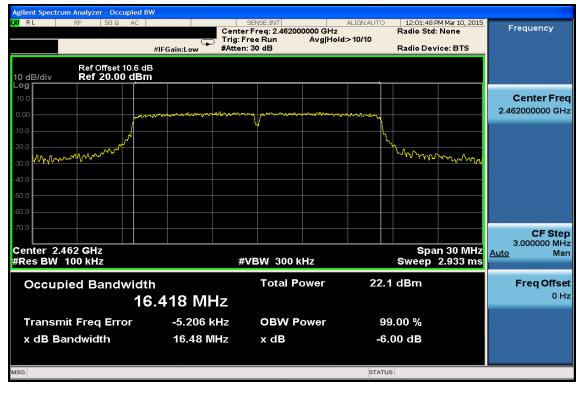


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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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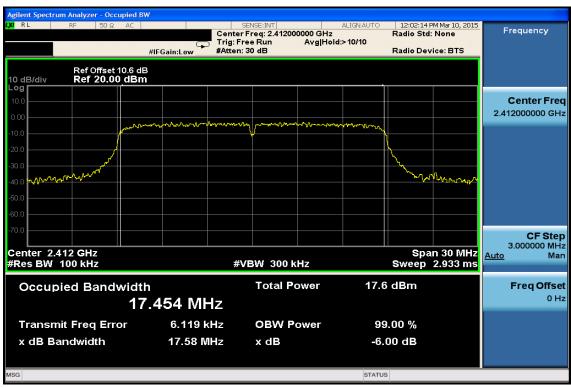
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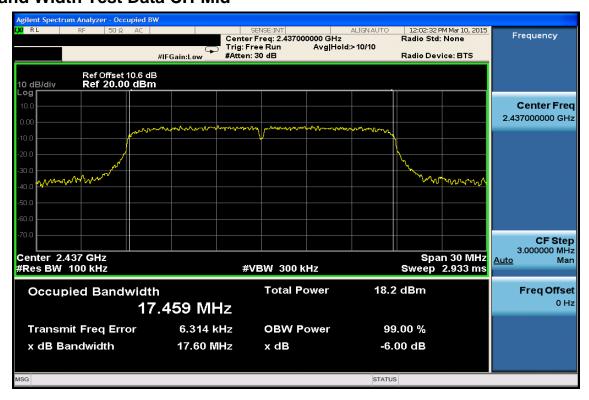


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802.11n 20M 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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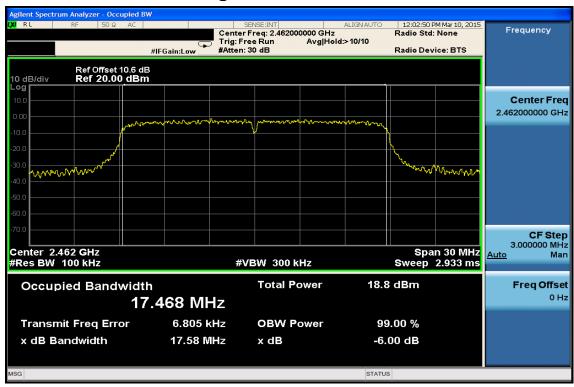
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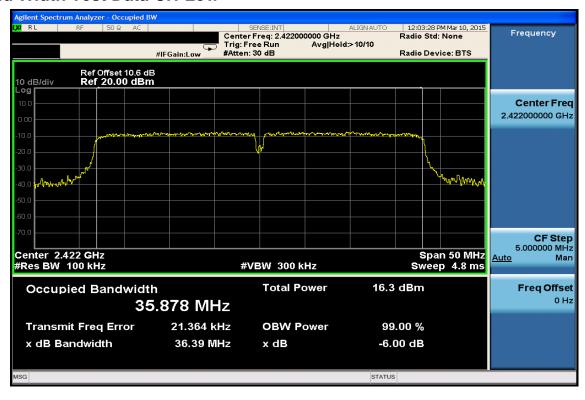
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6dB Band Width Test Data CH-High



802.11 n 40M

6dB Band Width Test Data CH-Low



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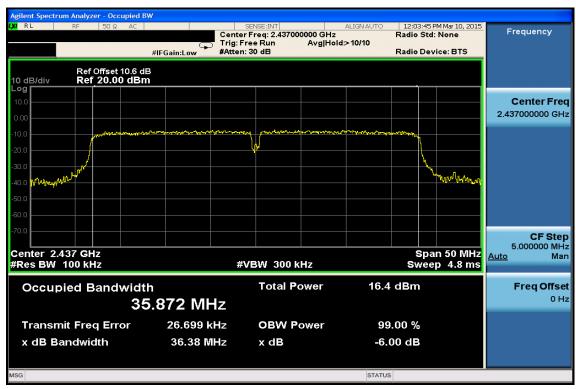
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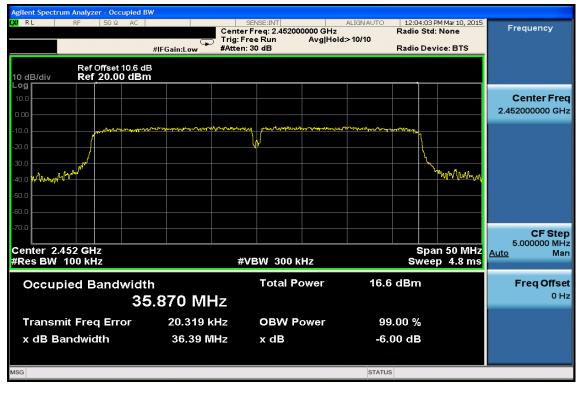


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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

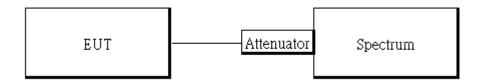
10.1 Standard Applicable

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).

10.2 Measurement Equipment Used

Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015			
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015			
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015			

10.3 Test SET-UP



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10.3.1 Measurement Procedure

Conducted Band Edge:

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 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, VBW=300KHz, 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:

- 1. To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 3. Set RBW = 100K & VBW ≥300K, 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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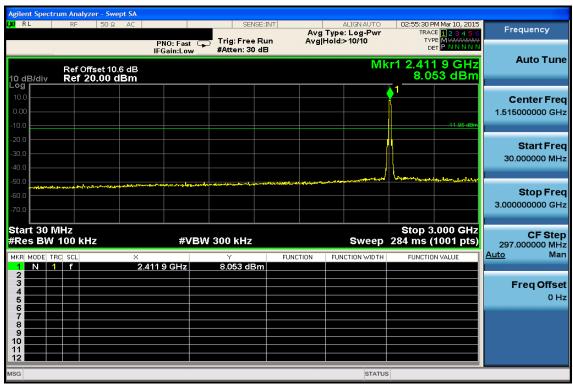
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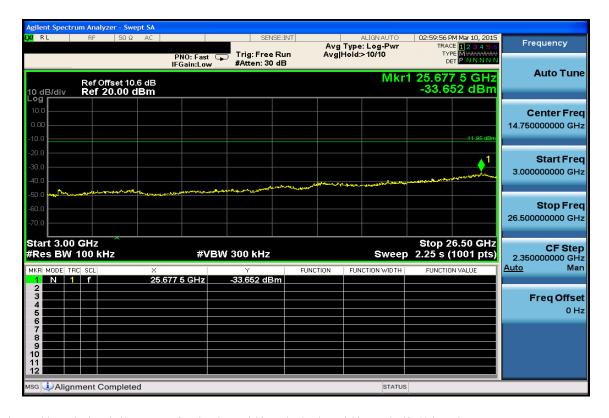
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802.11b **Spurious Emission Test Data CH-Low**





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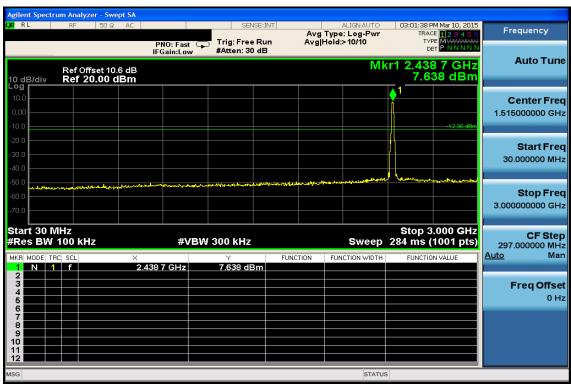
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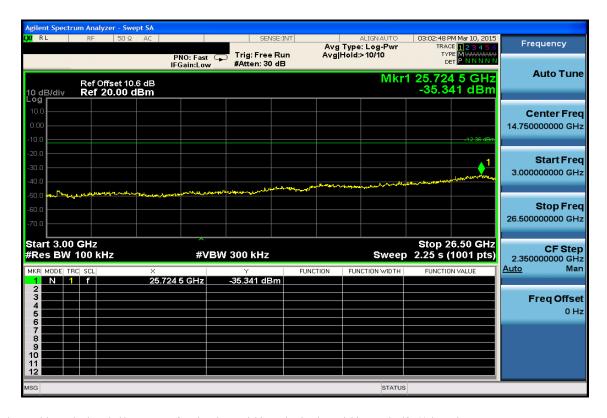
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Spurious Emission Test Data CH-Mid





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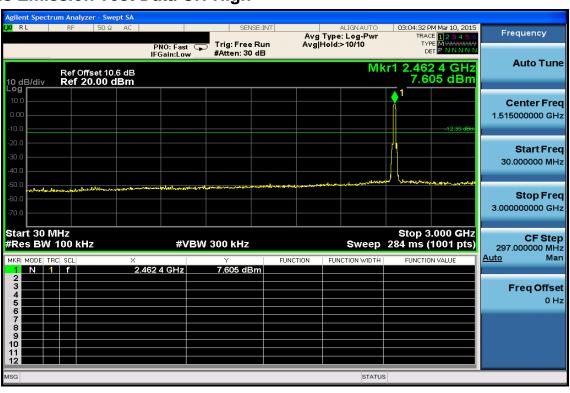
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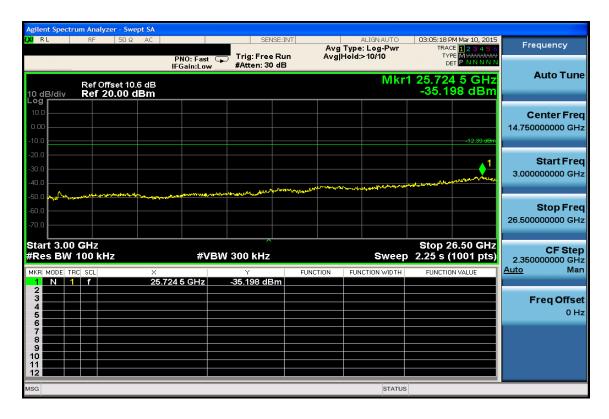
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Spurious Emission Test Data CH-High





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



Band Edges Test Data CH-High



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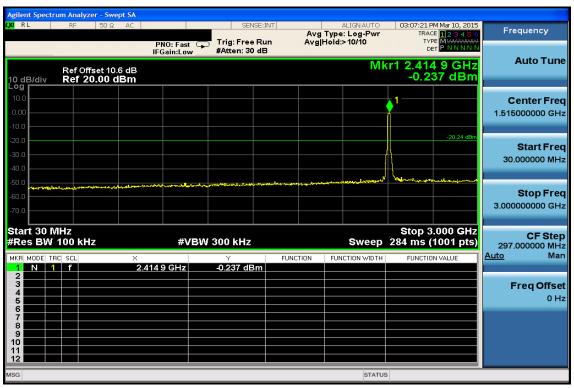
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802.11g **Spurious Emission Test Data CH-Low**





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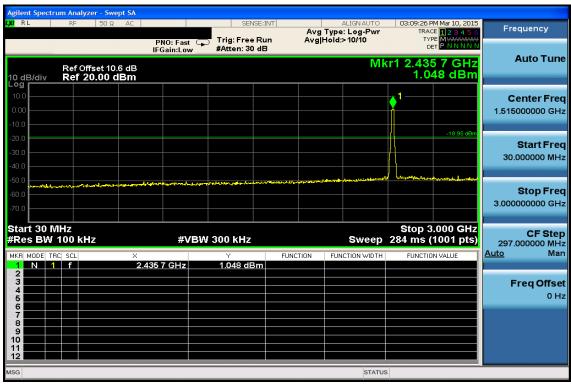
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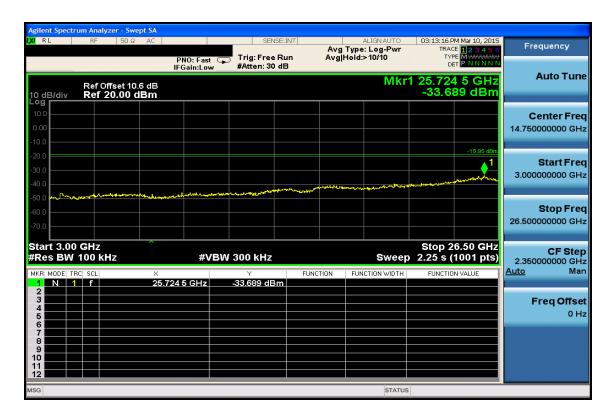
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Spurious Emission Test Data CH-Mid





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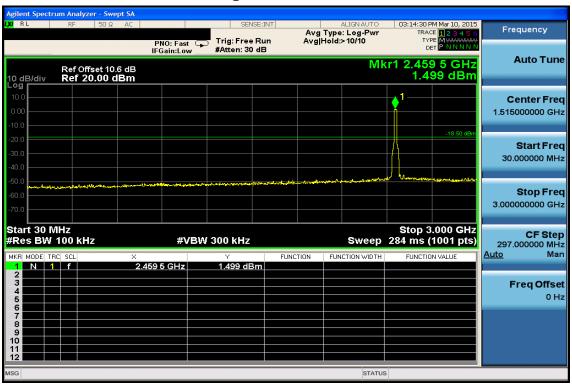
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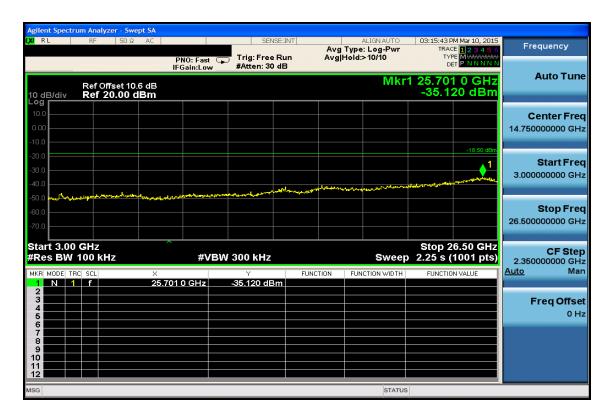
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Spurious Emission Test Data CH-High





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



Band Edges Test Data CH-High



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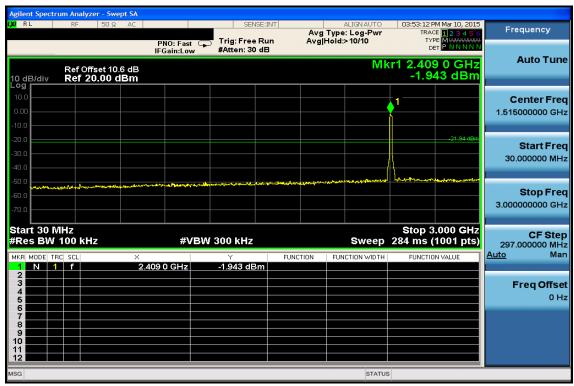
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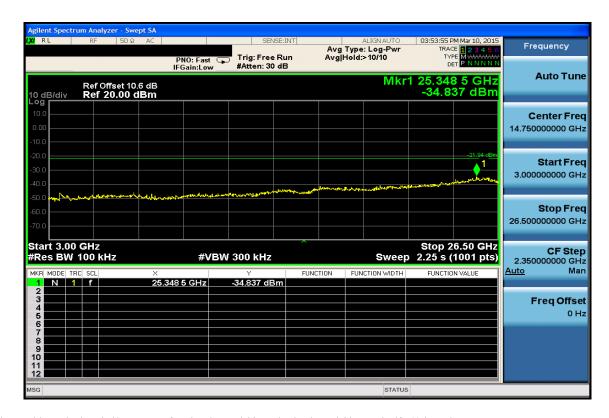
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802.11n HT20 **Spurious Emission Test Data CH-Low**





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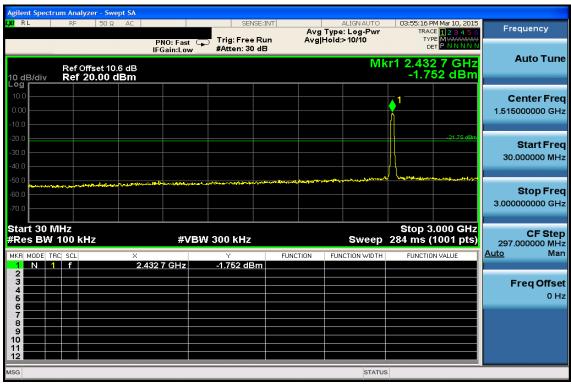
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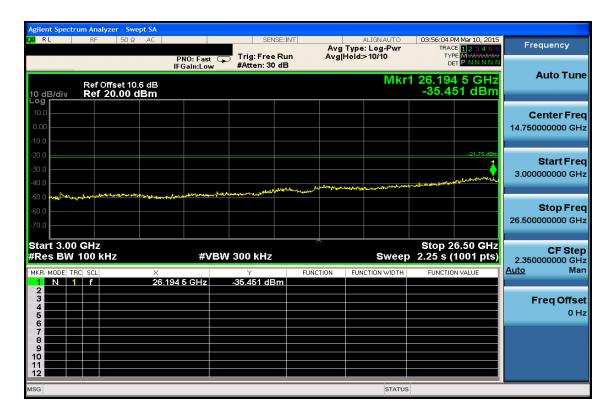
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Spurious Emission Test Data CH-Mid





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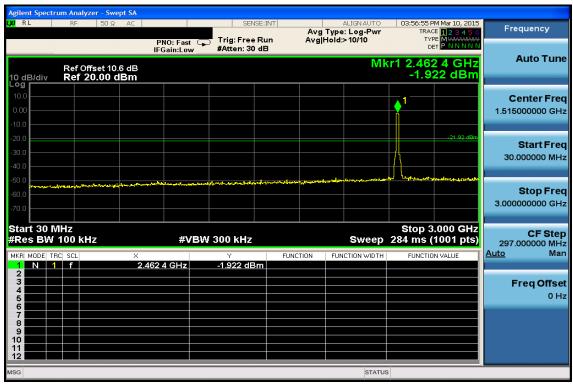
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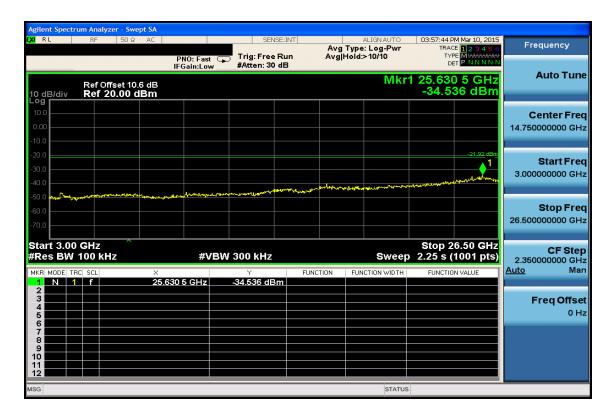
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Spurious Emission Test Data CH-High





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802.11n HT40 **Band Edges Test Data CH-Low**



Band Edges Test Data CH-High



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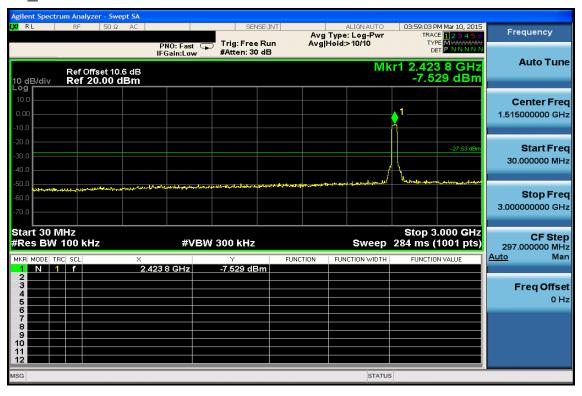
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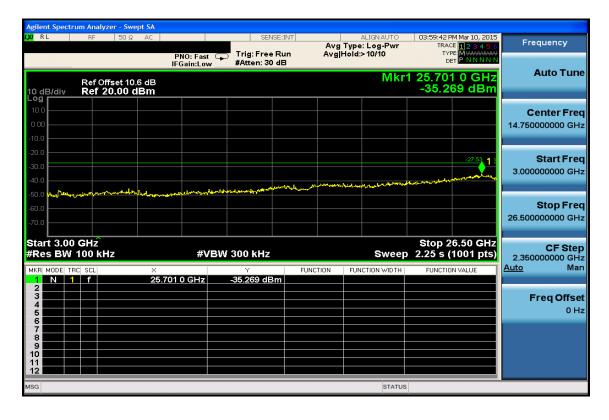
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802.11n HT40





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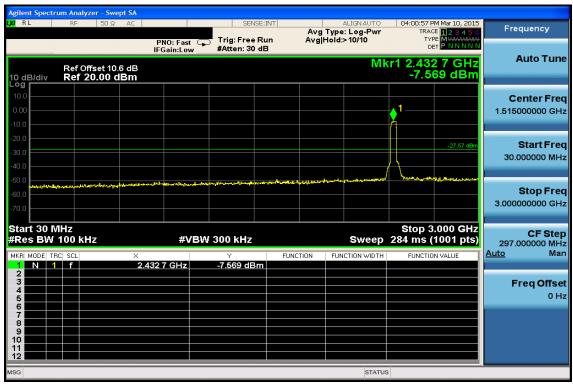
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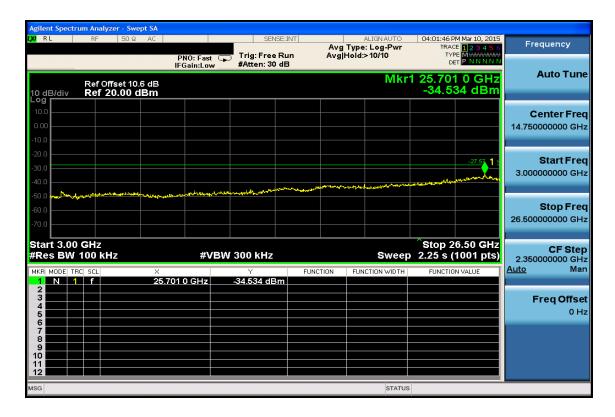
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Spurious Emission Test Data CH-Mid





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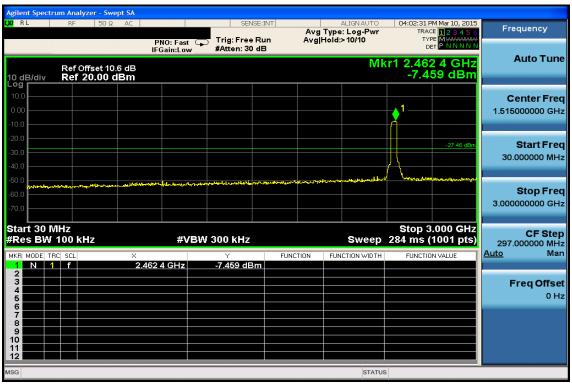
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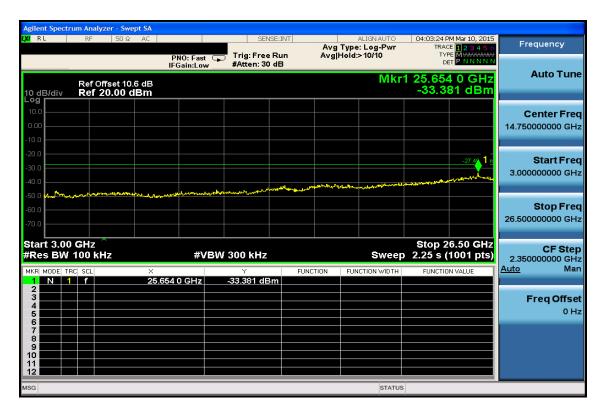
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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

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.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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11.2 Measurement Equipment Used:

.2 Measurement Equipment Used:										
966 Chamber										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESU 40	100363	04/12/2014						
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2014	12/08/2015					
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015					
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015					
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015					
Horn Antenna	ETS-Lindgren	3160-10	00117783	11/13/2014	11/12/2015					
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015					
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015					
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015					
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015					
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015					
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015					
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	05/31/2014	05/30/2015					
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.					

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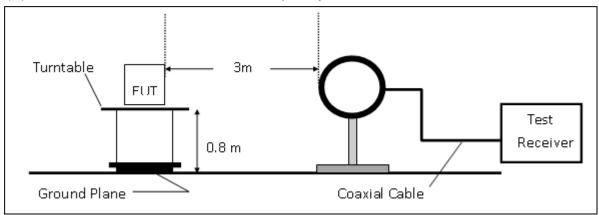
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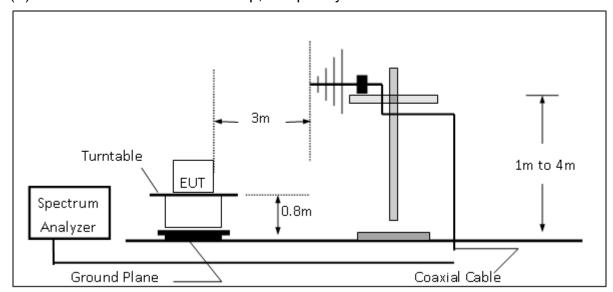
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11.3 Test SET-UP

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



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



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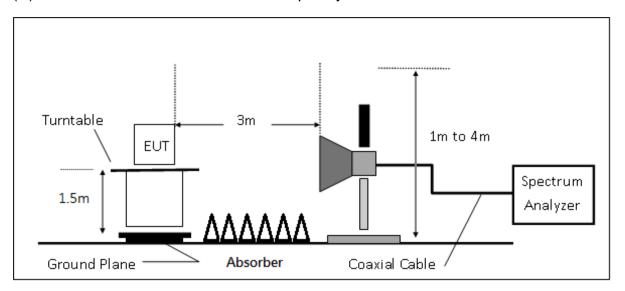
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(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.3.1 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
- 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.
- 10. 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 S	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ 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 Band :802.11 b **Test Date** :2015-03-09

Fundamental Frequency :2412 MHz Temp./Humi. :22.7deg_C/57RH Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2386.23	S	Peak	54.80	6.62	61.41	74.00	-12.59
2386.23	S	Average	45.98	6.62	52.60	54.00	-1.40
2390.00	Е	Peak	51.52	6.62	58.14	74.00	-15.86
2390.00	E	Average	39.47	6.62	46.09	54.00	-7.91

Test Date Operation Band :802.11 b :2015-03-09

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

Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane : Horizontal Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2386.01	S	Peak	54.55	6.62	61.16	74.00	-12.84
2386.01	S	Average	45.45	6.62	52.07	54.00	-1.93
2390.00	Е	Peak	50.33	6.62	56.95	74.00	-17.05
2390.00	Е	Average	39.75	6.62	46.37	54.00	-7.63

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Operation Mode

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Operation Band Test Date :802.11 b :2015-03-09

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

Engineer

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

:Band Edge HIGH

Freq.	Note	Detector Mode	Spectrum 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	49.08	6.96	56.05	74.00	-17.95
2483.50	Ε	Average	38.78	6.96	45.74	54.00	-8.26
2487.80	S	Peak	50.71	6.98	57.69	74.00	-16.31
2487.80	S	Average	41.41	6.98	48.39	54.00	-5.61

Operation Band :802.11 b Test Date :2015-03-09

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

Operation Mode :Band Edge HIGH Engineer :Vito

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	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	S	Peak	47.97	6.96	54.93	74.00	-19.07
2483.50	S	Average	37.01	6.96	43.97	54.00	-10.03
2487.20	S	Peak	48.65	6.98	55.62	74.00	-18.38
2487.20	S	Average	39.30	6.98	46.28	54.00	-7.72

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Radiated Band Edge Measurement Result (802.11g)

Operation Band :802.11 g Test Date :2015-03-09

Fundamental Frequency :2412 MHz Temp./Humi. :22.7deg_C/57RH Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2222	_	Б	00.00	0.00	70.00	74.00	4.40
2390.00	E	Peak	66.20	6.62	72.82	74.00	-1.18
2390.00	Е	Average	45.17	6.62	51.79	54.00	-2.21

Operation Band Test Date :2015-03-09 :802.11 g

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

Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2390.00	E	Peak	64.96	6.62	71.58	74.00	-2.42
2390.00	Е	Average	44.10	6.62	50.72	54.00	-3.28

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Operation Band Test Date :802.11 g :2015-03-09

Fundamental Frequency :2462 MHz Temp./Humi. :22.7deg C/57RH Operation Mode :Band Edge HIGH Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	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	65.46	6.96	72.43	74.00	-1.57
2483.50	Е	Average	46.16	6.96	53.12	54.00	-0.88

Operation Band :802.11 g **Test Date** :2015-03-09

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

Operation Mode :Band Edge HIGH Engineer :Vito

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	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	Ε	Peak	61.56	6.96	68.53	74.00	-5.47
2483.50	Ε	Average	42.48	6.96	49.44	54.00	-4.56

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Band :802.11 n20M **Test Date** :2015-03-09

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

Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dΒμV/m	dB
2390.00	Е	Peak	65.64	6.62	72.26	74.00	-1.74
2390.00	Е	Average	40.47	6.62	47.09	54.00	-6.91

Test Date :2015-03-09 **Operation Band** :802.11 n20M

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

Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
2390.00	Е	Peak	65.25	6.62	71.87	74.00	-2.13
2390.00	Е	Average	40.28	6.62	46.90	54.00	-7.10

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Operation Band Test Date :802.11 n20M :2015-03-09

Fundamental Frequency :2462 MHz Temp./Humi. :22.7deg C/57RH Operation Mode :Band Edge HIGH Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	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	65.30	6.96	72.27	74.00	-1.73
2483.50	Ε	Average	43.00	6.96	49.96	54.00	-4.04

Operation Band :802.11 n20M **Test Date** :2015-03-09

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

Operation Mode :Band Edge HIGH Engineer :Vito

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	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	Ε	Peak	61.12	6.96	68.09	74.00	-5.91
2483.50	Ε	Average	39.59	6.96	46.55	54.00	-7.45

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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Band :802.11 n40M **Test Date** :2015-03-09

Fundamental Frequency :2422 MHz Temp./Humi. :22.7deg_C/57RH Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2388.10	S	Peak	65.22	6.62	71.83	74.00	-2.17
2388.10	S	Average	44.21	6.62	50.83	54.00	-3.17
2390.00	Е	Peak	63.88	6.62	70.50	74.00	-3.50
2390.00	Е	Average	45.14	6.62	51.76	54.00	-2.24

Operation Band :802.11 n40M Test Date :2015-03-09

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

Operation Mode :Band Edge LOW Engineer :Vito

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
2388.32	S	Peak	65.31	6.62	71.92	74.00	-2.08
2388.32	S	Average	43.66	6.62	50.28	54.00	-3.72
2390.00	Е	Peak	62.97	6.62	69.59	74.00	-4.41
2390.00	Ε	Average	44.33	6.62	50.95	54.00	-3.05

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Test Date **Operation Band** :802.11 n40M :2015-03-09

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

Operation Mode :Band Edge HIGH Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	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	63.75	6.96	70.71	74.00	-3.29
2483.50	Е	Average	44.31	6.96	51.27	54.00	-2.73
2485.80	S	Peak	64.83	6.97	71.80	74.00	-2.20
2485.80	S	Average	43.26	6.97	50.23	54.00	-3.77

Operation Band :802.11 n40M Test Date :2015-03-09

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

Operation Mode :Band Edge HIGH Engineer :Vito

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.

Freq.	Note	Detector	Spectrum	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	60.13	6.96	67.09	74.00	-6.91
2483.50	Е	Average	40.46	6.96	47.42	54.00	-6.58
2485.60	S	Peak	61.27	6.97	68.25	74.00	-5.75
2485.60	S	Average	39.98	6.97	46.95	54.00	-7.05

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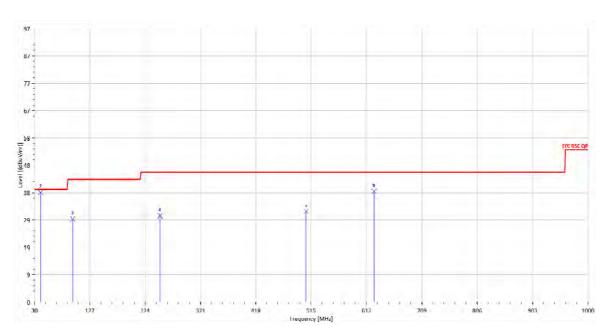
Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

Operation Band Test Date :802.11 g :2015-03-09 Fundamental Frequency :2437 MHz Temp./Humi. :22.7deg_C/57RH

Operation Mode :TX MID Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
30.00	S	QP	49.67	-13.11	36.56	40.00	-3.44
40.67	S	QP	58.30	-19.43	38.87	40.00	-1.13
96.93	S	QP	53.80	-24.36	29.44	43.50	-14.06
250.19	S	Peak	50.98	-20.45	30.54	46.00	-15.46
506.27	S	Peak	46.22	-14.06	32.16	46.00	-13.84
625.58	S	Peak	51.37	-12.06	39.31	46.00	-6.69

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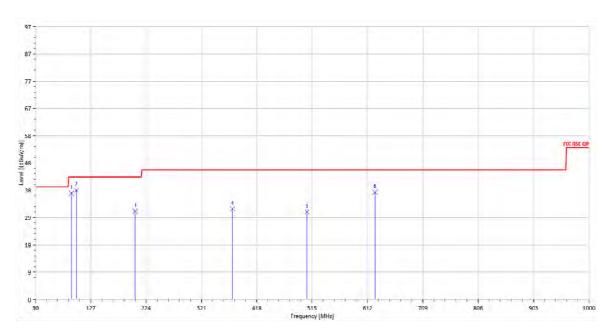
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Operation Band :802.11 g **Fundamental Frequency** :2437 MHz **Operation Mode** :TX MID EUT Pol. :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer :Vito

: HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
93.05	S	QP	62.80	-25.06	37.74	43.50	-5.76
101.78	S	QP	62.30	-23.54	38.76	43.50	-4.74
204.60	S	Peak	54.41	-23.06	31.35	43.50	-12.16
375.32	S	Peak	48.88	-16.68	32.20	46.00	-13.80
506.27	S	Peak	45.22	-14.06	31.16	46.00	-14.84
625.58	S	Peak	50.15	-12.06	38.09	46.00	-7.91

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Radiated Spurious Emission Measurement Result

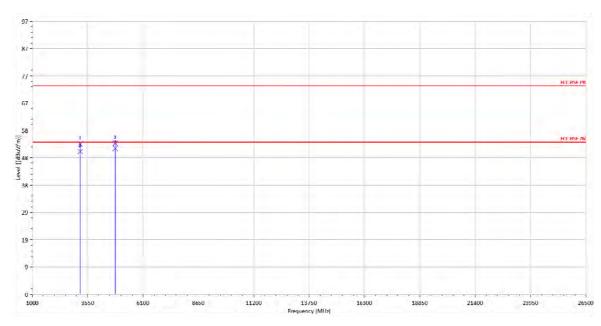
Above 1GHz Worst-Case Data:

Operation Band :802.11 b **Test Date** :2015-03-09

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

Operation Mode :TX LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
3212.00	S	Peak	45.41	7.95	53.36	74.00	-20.64
3212.00	S	Average	42.73	7.95	50.68	54.00	-3.32
4824.00	Н	Peak	42.70	10.97	53.67	74.00	-20.33
4824.00	Н	Average	40.88	10.97	51.85	54.00	-2.15

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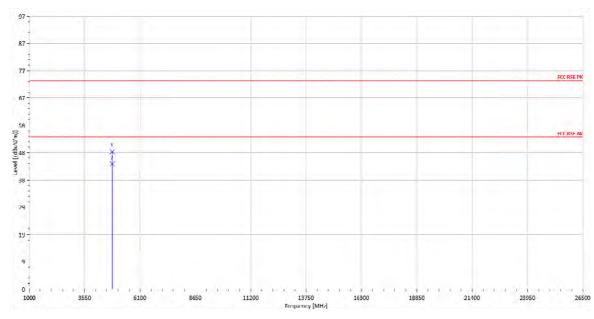


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Operation Band Test Date :802.11 b :2015-03-09 Fundamental Frequency :2412 MHz Temp./Humi. :22.7deg_C/57RH

Operation Mode :TX LOW Engineer

EUT Pol. :E2 Plane :HORIZONTAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	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	37.86	10.97	48.83	74.00	-25.17
4824.00	Н	Average	33.52	10.97	44.49	54.00	-9.51

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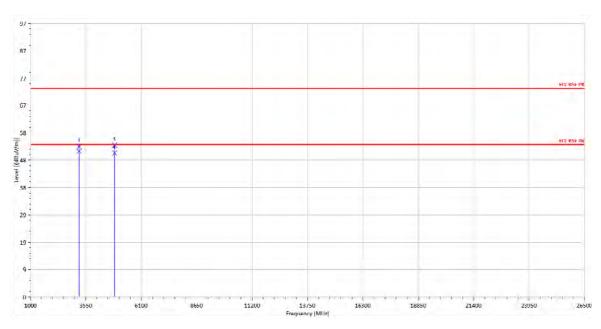
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 b :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
3247.00	S	Peak	45.19	8.18	53.37	74.00	-20.63	
3247.00	S	Average	43.42	8.18	51.60	54.00	-2.40	
4874.00	Н	Peak	42.94	10.89	53.83	74.00	-20.17	
4874.00	Н	Average	40.09	10.89	50.98	54.00	-3.02	

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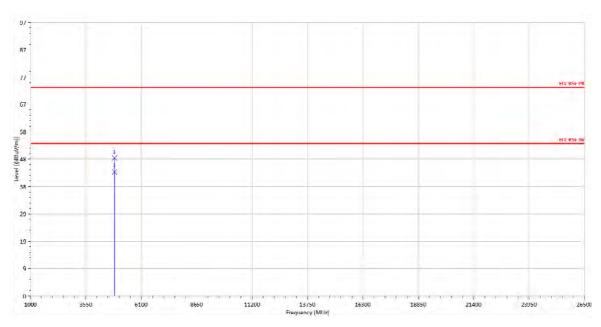
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 b :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	37.97	10.90	48.87	74.00	-25.13
4874.00	Н	Average	33.04	10.89	43.93	54.00	-10.07

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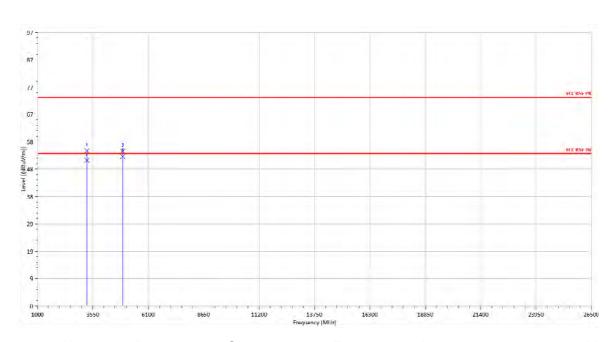
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 b :2462 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB
3282.00	S	Peak	46.88	8.08	54.96	74.00	-19.04
3282.00	S	Average	43.48	8.08	51.56	54.00	-2.44
4924.00	Н	Peak	43.84	10.98	54.82	74.00	-19.18
4924.00	Н	Average	42.01	10.98	52.99	54.00	-1.01

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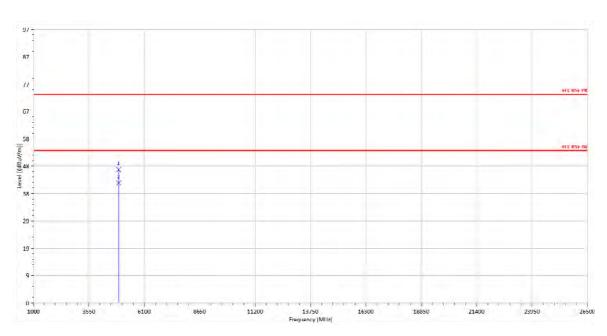
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 b :2462 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	36.27	10.98	47.25	74.00	-26.75
4924.00	Н	Average	31.54	10.98	42.52	54.00	-11.48

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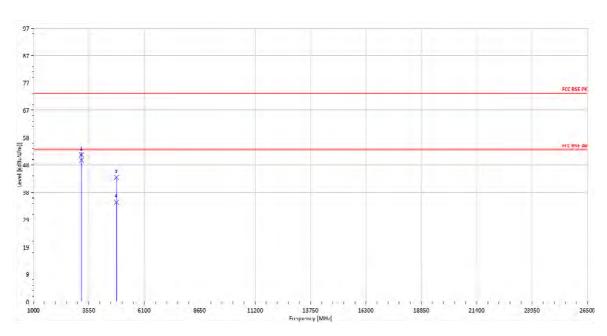
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Radiated Spurious Emission Measurement Result (802.11g)

Operation Band :802.11 g **Test Date** :2015-03-09 :2412 MHz Fundamental Frequency Temp./Humi. :22.7deg_C/57RH

Operation Mode :TX LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
3212.00	S	Peak	44.15	7.95	52.10	74.00	-21.90	
3212.00	S	Average	42.23	7.95	50.18	54.00	-3.82	
4824.00	Н	Peak	33.14	10.97	44.11	74.00	-29.89	
4824.00	Н	Average	24.30	10.97	35.27	54.00	-18.73	

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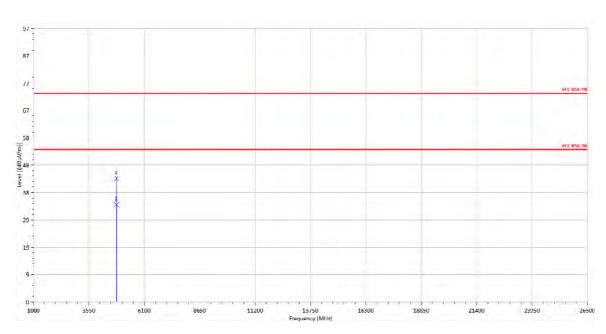
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 g :2412 MHz :TX LOW :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	32.77	10.97	43.74	74.00	-30.26
4824.00	Н	Average	23.45	10.97	34.42	54.00	-19.58

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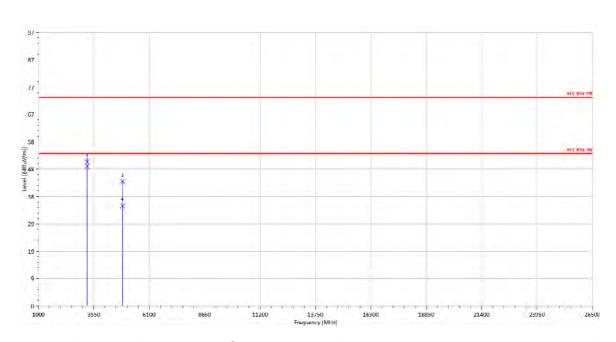
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 g :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
3247.00	S	Peak	42.85	8.18	51.03	74.00	-22.97	
3247.00	S	Average	41.32	8.18	49.50	54.00	-4.50	
4874.00	Н	Peak	33.28	10.89	44.17	74.00	-29.83	
4874.00	Н	Average	24.61	10.89	35.50	54.00	-18.50	

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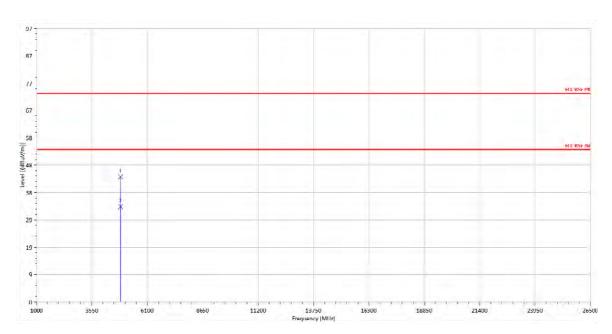
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 g :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	33.44	10.89	44.33	74.00	-29.67
4874.00	Н	Average	22.89	10.89	33.78	54.00	-20.22

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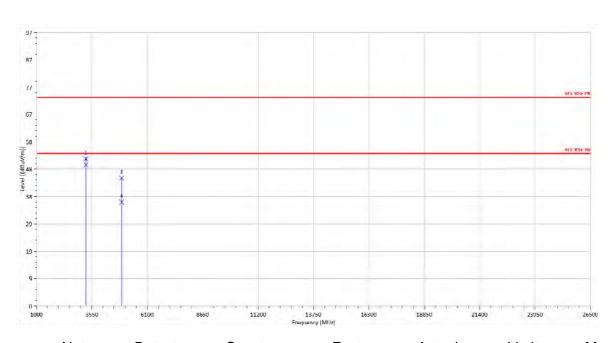
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 g :2462 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3282.00	S	Peak	44.07	8.08	52.15	74.00	-21.85
3282.00	S	Average	41.95	8.08	50.03	54.00	-3.97
4924.00	Н	Peak	34.36	10.98	45.34	74.00	-28.66
4924.00	Н	Average	25.81	10.98	36.79	54.00	-17.21

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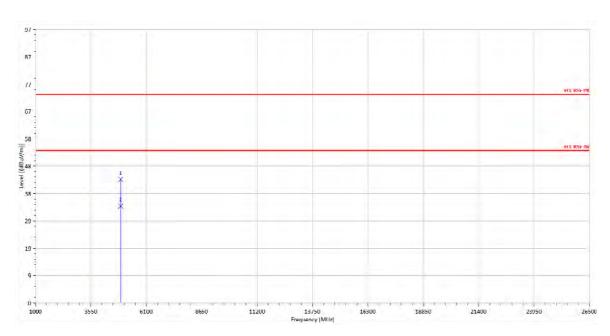
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 g :2462 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	32.80	10.98	43.77	74.00	-30.23	
4924.00	Н	Average	23.32	10.98	34.30	54.00	-19.70	

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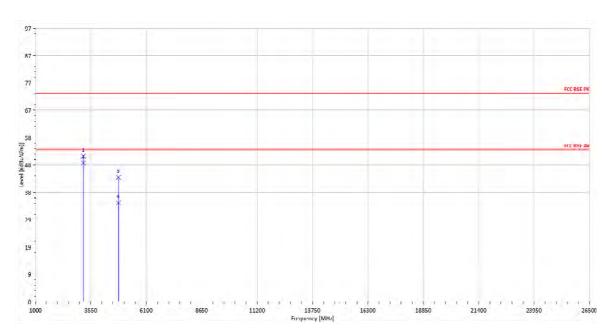
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Radiated Spurious Emission Measurement Result (802.11n_20M)

Operation Band Test Date :802.11 n20M :2015-03-09 Fundamental Frequency Temp./Humi. :2412 MHz :22.7deg_C/57RH

Operation Mode :TX LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
3212.00	S	Peak	43.66	7.95	51.61	74.00	-22.39	
3212.00	S	Average	41.25	7.95	49.20	54.00	-4.80	
4824.00	Н	Peak	33.13	10.97	44.10	74.00	-29.90	
4824.00	Н	Average	24.12	10.97	35.09	54.00	-18.91	

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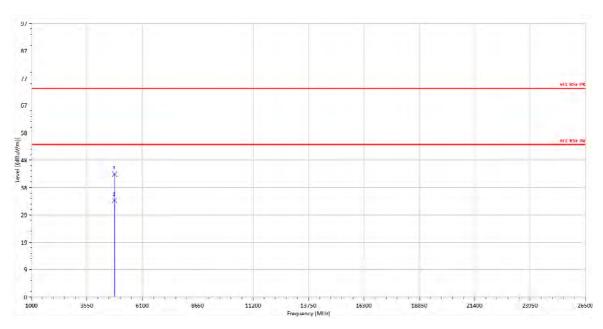
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 n20M :2412 MHz :TX LOW :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	32.55	10.97	43.52	74.00	-30.48
4824.00	Н	Average	23.27	10.97	34.24	54.00	-19.76

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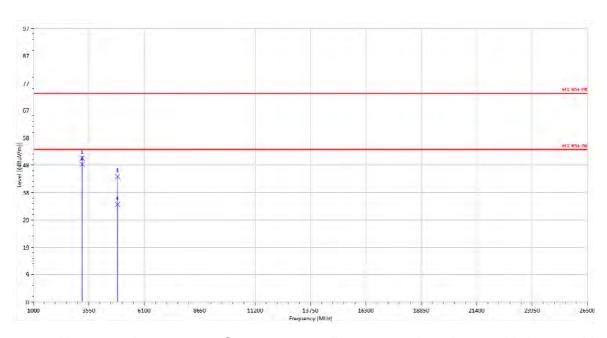
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 n20M :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3247.00	S	Peak	42.77	8.18	50.95	74.00	-23.05
3247.00	S	Average	40.57	8.18	48.75	54.00	-5.25
4874.00	Н	Peak	33.56	10.89	44.45	74.00	-29.55
4874.00	Н	Average	23.63	10.89	34.52	54.00	-19.48

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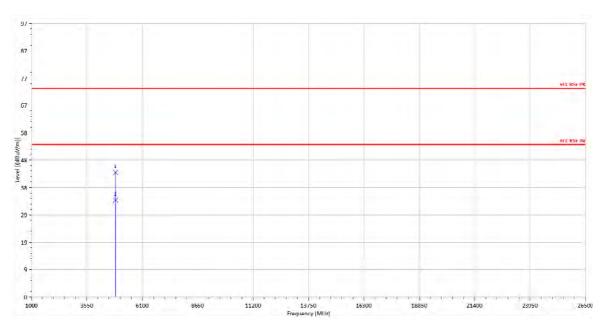
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11 n20M :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	33.25	10.89	44.14	74.00	-29.86
4874.00	Н	Average	23.39	10.89	34.28	54.00	-19.72

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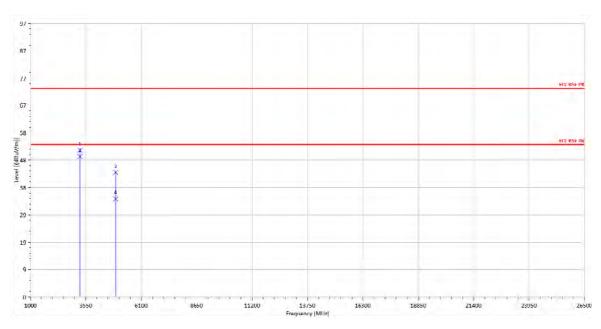
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 n20M :2462 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

:VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
3282.00	S	Peak	43.92	8.08	52.00	74.00	-22.00	
3282.00	S	Average	41.68	8.08	49.76	54.00	-4.24	
4924.00	Н	Peak	33.16	10.98	44.14	74.00	-29.86	
4924.00	Н	Average	23.75	10.98	34.73	54.00	-19.27	

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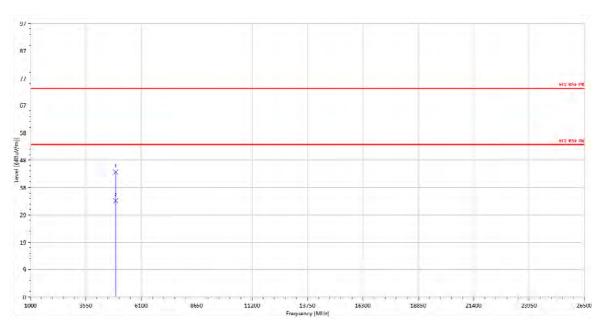
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 n20M :2462 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	33.24	10.98	44.22	74.00	-29.78
4924.00	Н	Average	23.07	10.98	34.05	54.00	-19.95

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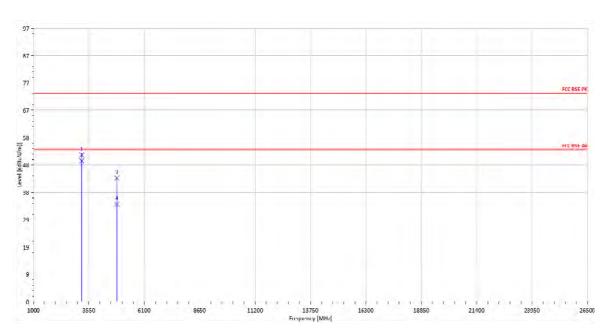
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Radiated Spurious Emission Measurement Result (802.11n_40M)

Operation Band :802.11 n40M **Test Date** :2015-03-09 Fundamental Frequency Temp./Humi. :2422 MHz :22.7deg_C/57RH

Operation Mode :TX LOW Engineer :Vito

EUT Pol. :E2 Plane :VERTICAL Measurement Antenna Pol.



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
3226.00	S	Peak	43.95	8.09	52.04	74.00	-21.96	
3226.00	S	Average	41.87	8.09	49.96	54.00	-4.04	
4844.00	Н	Peak	32.93	10.93	43.86	74.00	-30.14	
4844.00	Н	Average	23.63	10.93	34.56	54.00	-19.44	

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Operation Band Fundamental Frequency **Operation Mode**

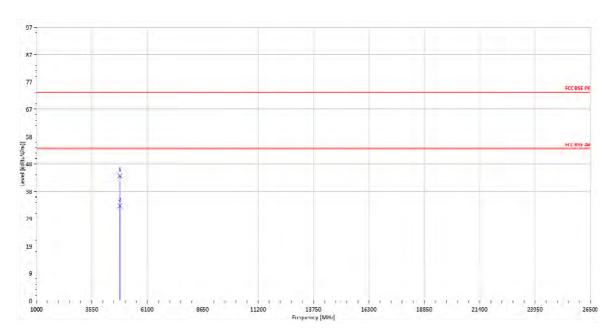
EUT Pol.

:802.11 n40M :2422 MHz :TX LOW :E2 Plane

Test Date Temp./Humi. :2015-03-09 :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4844.00	Н	Peak	33.34	10.93	44.27	74.00	-29.73
4844.00	Н	Average	22.71	10.93	33.64	54.00	-20.36

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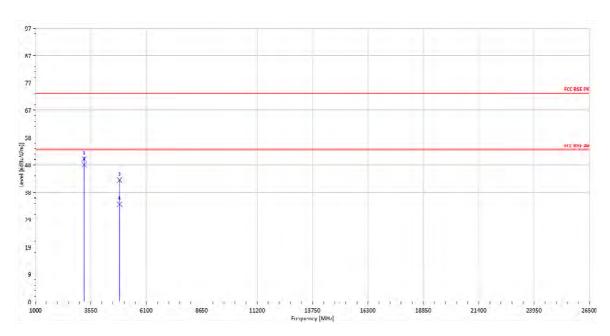
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11 n40M :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin	
		Mode	Reading Level		FS	@3m		
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBμV/m	dBµV/m	dB	
3247.00	S	Peak	42.45	8.18	50.63	74.00	-23.37	
3247.00	S	Average	40.35	8.18	48.53	54.00	-5.47	
4874.00	Н	Peak	32.26	10.89	43.15	74.00	-30.85	
4874.00	Н	Average	23.66	10.89	34.55	54.00	-19.45	

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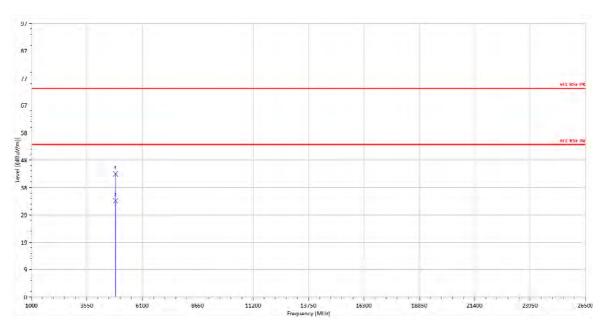
Operation Band Fundamental Frequency Operation Mode EUT Pol.

:802.11 n40M :2437 MHz :TX MID :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	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	32.72	10.89	43.61	74.00	-30.39
4874.00	Н	Average	23.15	10.89	34.04	54.00	-19.96

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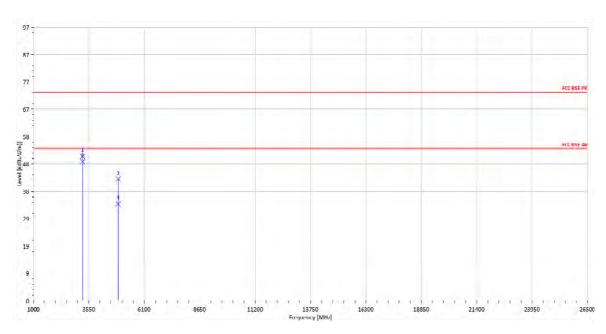
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11 n40M :2452 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :VERTICAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
3268.00	S	Peak	42.99	8.15	51.14	74.00	-22.86
3268.00	S	Average	41.16	8.15	49.31	54.00	-4.69
4904.00	Н	Peak	32.16	10.98	43.14	74.00	-30.86
4904.00	Н	Average	23.31	10.98	34.29	54.00	-19.71

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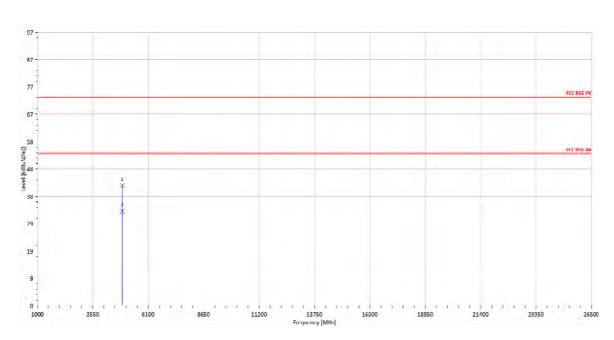
Operation Band Fundamental Frequency **Operation Mode** EUT Pol.

:802.11 n40M :2452 MHz :TX HIGH :E2 Plane

Test Date :2015-03-09 Temp./Humi. :22.7deg_C/57RH

Engineer

Measurement Antenna Pol. :HORIZONTAL



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4904.00	Н	Peak	31.62	10.98	42.60	74.00	-31.40
4904.00	Н	Average	22.50	10.98	33.48	54.00	-20.52

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12 PEAK POWER SPECTRAL DENSITY

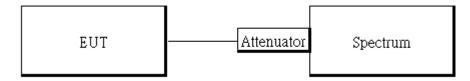
12.1 Standard Applicable

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.

12.2 Measurement Equipment Used

	•							
Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015			
DC Block	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015			
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015			

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 V03r02.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW ≥ 3 kHz.
- 5. Set the VBW \geq 3 x RBW.
- 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

Frequency	Frequency RF Power Density Maximum Limit							
(MHz)	(dBm)	(dBm)						
	802.11	b						
2412	-10.928	8	PASS					
2437	-11.032	8	PASS					
2462	-10.910	8	PASS					
	802.11	g						
2412	-14.411	8	PASS					
2437	-12.879	8	PASS					
2462	-12.330	8	PASS					
	802.11n_F	HT20						
2412	-16.286	8	PASS					
2437	-15.473	8	PASS					
2462	-14.817	8	PASS					
	802.11n_HT40							
2422	-18.918	8	PASS					
2437	-20.252	8	PASS					
2452	-18.205	8	PASS					

^{*}Refer to next page for plots

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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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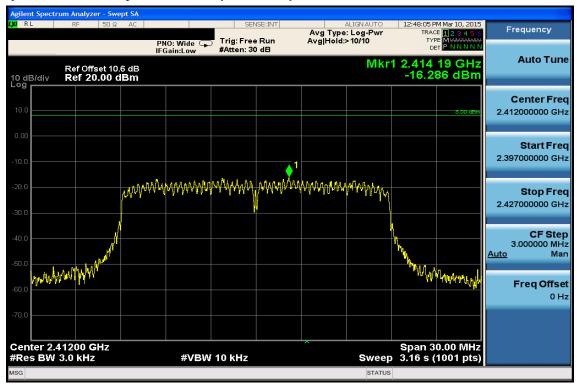
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802.11n HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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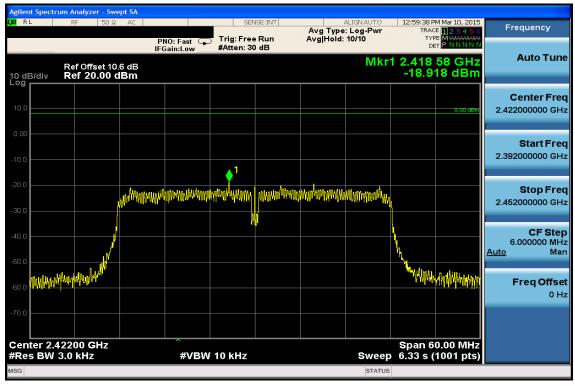
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Power Spectral Density Test Plot (CH-High)



802.11n HT40

Power Spectral Density Test Plot (CH-Low)



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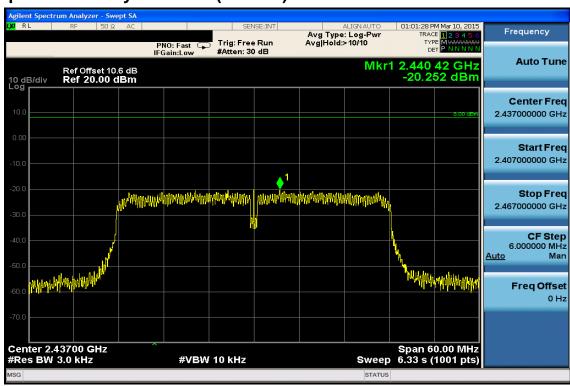
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Power Spectral Density Test Plot (CH-Mid)



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.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

13.2 Antenna Connected Construction

An embedded-in antenna design is 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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