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Report No.: SZEMO10090587202

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FCC REPORT

Application No: SZEMO100905872RF

Applicant: Binatone Electronics International Limited

Product Name: MID

Operation Frequency: 2412MHz to 2462MHz

FCC ID: VLJHST7

Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2009

Date of Receipt: 2010-09-13

Date of Test: 2010-10-12 to 2010-10-19

Date of Issue: 2010-11-02

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above. This report supersedes our previous report SZEMO10090587201, issued on 2010-11-02, which is hereby deemed null and void.

Authorized Signature:

Jack Zhang

Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Remark: Pass: The EUT complies with the essential requirements in the standard.

Fail: The EUT does not comply with the essential requirements in the standard.

^{*} The EUT passed the AC Power Line Conducted Emission, Radiated Emission and RF Antenna Conducted spurious emissions tests after modification.



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4 General Information

4.1 Client Information

Applicant:	Binatone Electronics International Limited
Address of Applicant:	Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong
Manufacturer/ Factory:	HIVISION CO., LTD
Address of Manufacturer/ Factory:	Building 3, NO 5 Fuqiao Industrial Estate, Qiaotou, Fuyong, Baoan District, Shenzhen, China

4.2 General Description of E.U.T.

-	
Product Name:	MID (Mobile Internet Device)
Trade mark:	Binatone
Model No.:	Homesurf Tablet 7, PWS700GS
	Only the Model No. Homesurf Tablet 7 was tested in this report, client declared that the above models are electrically identical, only different colour of appearance and model names.
Operation Frequency:	2412MHz~2462MHz
No.of Channel:	11
Channel spacing:	5MHz
Modulation type: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation type: (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing(OFDM)
Data rate (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data rate (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Antenna Type:	Integral
Antenna gain:	2dBi
Power Supply:	Type: HNC055200U
	Input: 100-240V 50-60Hz 0.35A max(AC)
	Output: 5.5V 2.0A(DC)
Battery:	3.70V , 3000mAh(Lithium Ion Rechargeable Battery)

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Operation Channel Frequency									
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz		
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz		
3	2422MHz	6	2437MHz	9	2452MHz				

Note:

In section 15.31(m), regards to the operating frequency range of the EUT is over 10 MHz, the lowest, the middle and the highest frequency of channels were selected for testing:

Channel	Frequency (MHz)		
lowest	2412		
middle	2437		
highest	2462		



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4.3 Test environment and mode

Test Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mBar
Test mode:	
Communication with PC (memory)	Connect the EUT and PC, exchanging data with internal memory.
Communication with PC (SD card)	Connect the EUT and PC, exchanging data with SD card.
Playing (memory MP3)	Keep the EUT playing MP3 with its internal memory.
Playing (SD Card MP3)	Keep the EUT playing MP3 with its SD card.
Playing (memory MP4)	Keep the EUT playing MP4 with its internal memory.
Playing (SD Card MP4)	Keep the EUT playing MP4 with its SD card.
Playing (memory photo)	Keep the EUT taking photo(memory).
Playing (SD card photo)	Keep the EUT taking photo(SD card).
Charge + WI-FI	Keep the EUT in charge mode and keep the communication between EUT and Route.
Charge + Communication with PC (SD card)	Keep the EUT in charge mode, connect the EUT and PC, exchanging data with SD card.
Charge + Playing (SD Card MP4)	Keep the EUT in charge mode and playing MP4 with its SD card.
Charge	Keep the EUT in charge mode.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

with the 201 in transmitting operation, which was shown in the test report and defined as renewe.								
Pre-Test Mode:								
	80	2.11b						
1Mbps	2Mbps	5.5Mbps	11Mbps					
18.58	18.22	18.01	17.89					
			8	02.11g				
6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
	1Mbps 18.58	80 1Mbps 2Mbps 18.58 18.22	802.11b 1Mbps 2Mbps 5.5Mbps 18.58 18.22 18.01	802.11b 1Mbps 2Mbps 5.5Mbps 11Mbps 18.58 18.22 18.01 17.89	802.11b 1Mbps 2Mbps 5.5Mbps 11Mbps 18.58 18.22 18.01 17.89 802.11g	802.11b 1Mbps 2Mbps 5.5Mbps 11Mbps 18.58 18.22 18.01 17.89 802.11g	802.11b 1Mbps 2Mbps 5.5Mbps 11Mbps 18.58 18.22 18.01 17.89 802.11g	

Final Test Mode:

According to ANSI C63.10:2009 standard, the test results are the worst case

1Mbps for 802.11b, 6Mbps for 802.11g

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4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
PC (1)	DELL	OPTIPLEX 755
LCD-displaying	DELL	E1909WF
KEYBOARD	DELL	SK-8115
MOUSE	DELL	MOC5110
PC (2)	DELL	OPTIDLEX 330
LCD-displaying	DELL	SP2208WFPT
KEYBOARD	DELL	SK-8115
MOUSE	DELL	MOC5110
Coder	HengTong ELECTRON	HT4000
Printer	Canon	BJC-1000SP
Router	TP-LINK	N/A

4.5 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, June 27, 2008.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.6 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.7 Other Information Requested by the Customer

None.

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4.8 Test Instruments list

RE i	RE in Chamber								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2010-06-17	2011-06-17			
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	2009-11-05	2010-11-05			
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A			
4	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18			
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2009-11-05	2010-11-05			
6	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2009-11-10	2010-11-10			
7	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2009-11-10	2010-11-10			
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2010-06-02	2011-06-02			
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2009-12-18	2010-12-18			
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	2010-06-04	2011-06-04			
11	Band filter	Amindeon	82346	SEL0094	2010-06-02	2011-06-02			

Con	Conducted Emission								
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)			
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A			
2	LISN	ETS-LINDGREN	3816/2	SEL0021	2010-06-02	2011-06-02			
3	Two-Line V-Network	Rohde & Schwarz	ENV216	SEL0152	2009-10-22	2010-10-22			
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2010-06-02	2011-06-02			
5	Coaxial Cable	SGS	N/A	SEL0024	2008-06-18	2011-06-18			

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RF c	RF conducted									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)				
1	Spectrum Analyzer	Rohde & Schwarz	FSP 30	SEL0154	2010-10-21	2011-10-21				
2	Coaxial cable	SGS	N/A	SEL0028	2008-06-18	2011-06-18				



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5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203 /247(c)

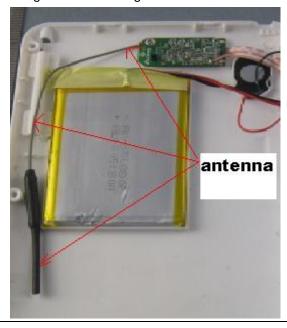
15.203 requirement:

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

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna: The antenna is integrated. The best gain of the antenna is 2.0dBi.



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5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207					
Test Method:	ANSI C63.10: 2009					
Test Frequency Range:	150KHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Limit (dRuV)					
	Frequency range (MH2)	Frequency range (MHz) Quasi-peak Average				
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm					
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). It provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.					
Test setup:	Reference Plane					
	Test table/Insulation pla Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilizatio		er — AC power			
	Test table height=0.8m					
Test Instruments:	Refer to section 4.7 for details					
Test Instruments: Test mode:		ommunication with PC ne EUT at above mode	s, and then found the			

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission

were detected.

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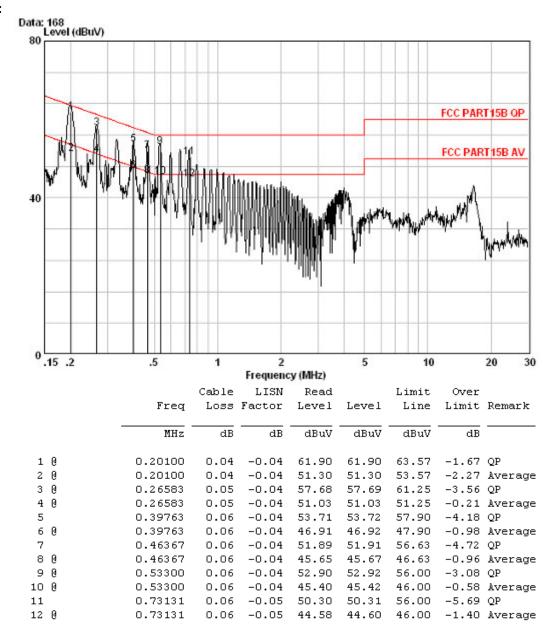


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Charge + Communication with PC (SD card)

Live Line:



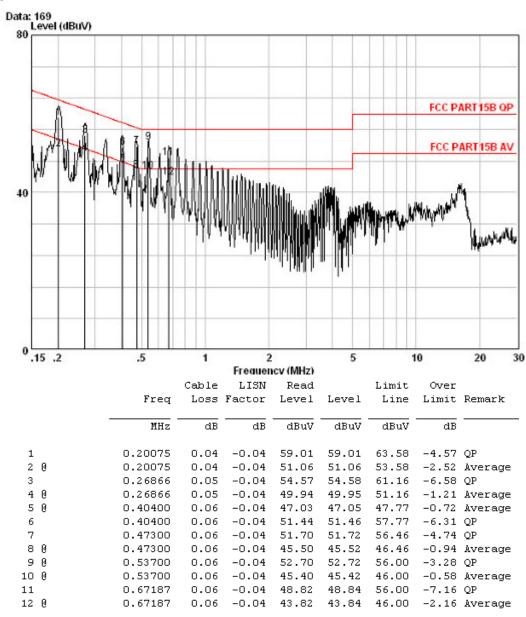
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Neutral Line:



Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2009 and KDB558074
Limit:	30dBm
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Test Instruments:	Refer to section 4.7 for details
Test results:	Pass

Measurement Data

Micasarchicht Data				
802.11b mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	18.58	30.00	Pass	
Middle	18.15	30.00	Pass	
Highest	17.79	30.00	Pass	
	802.11g mg	ode		
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	20.77	30.00	Pass	
Middle	20.37	30.00	Pass	
Highest	20.01	30.00	Pass	

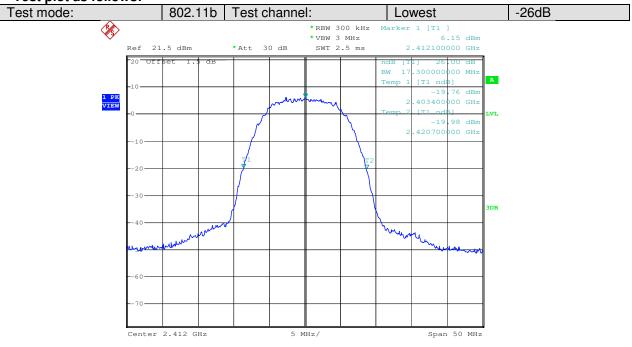
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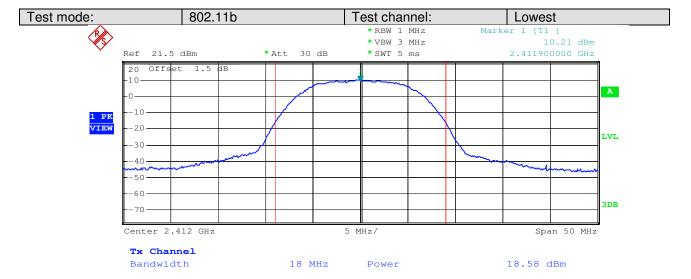
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Test plot as follows:



Date: 15.OCT.2010 08:49:34

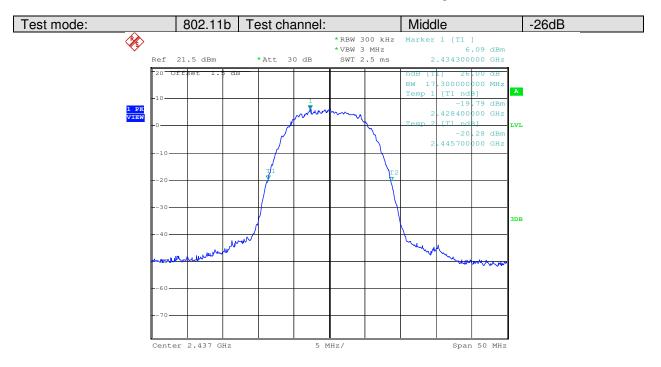


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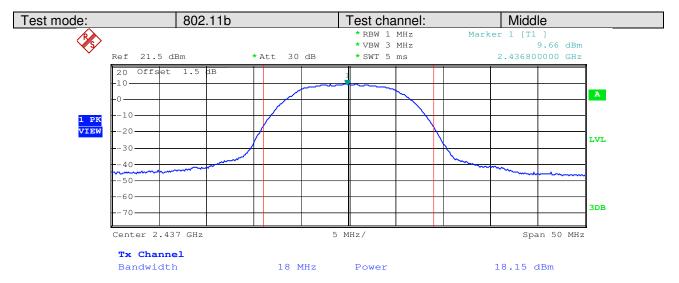


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Date: 15.0CT.2010 08:51:31

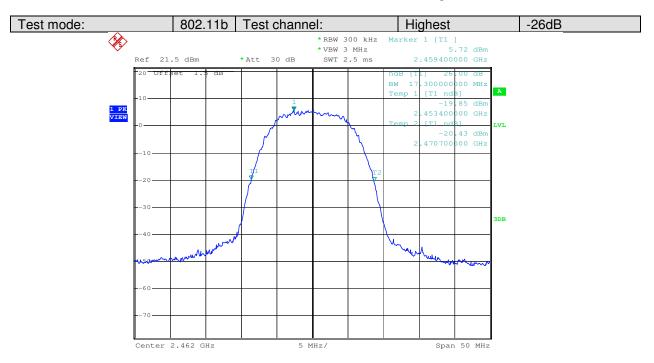


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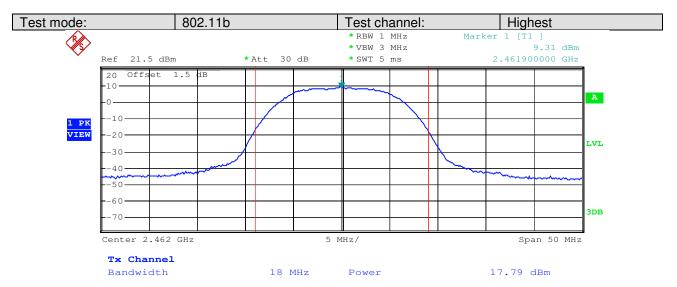


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Date: 15.0CT.2010 08:53:02

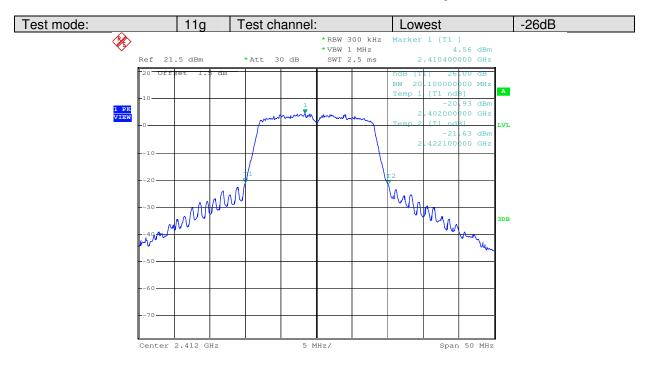


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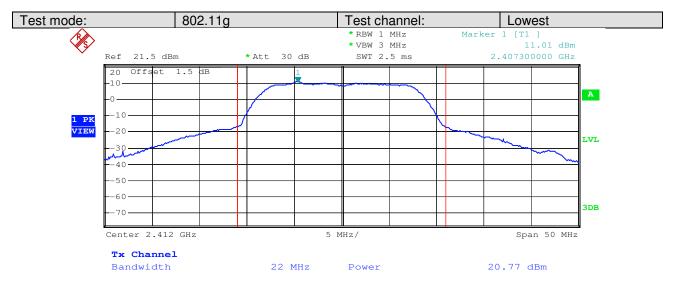


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Date: 15.0CT.2010 09:42:52

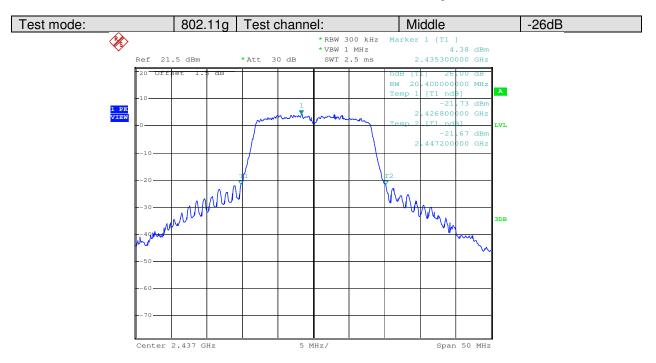


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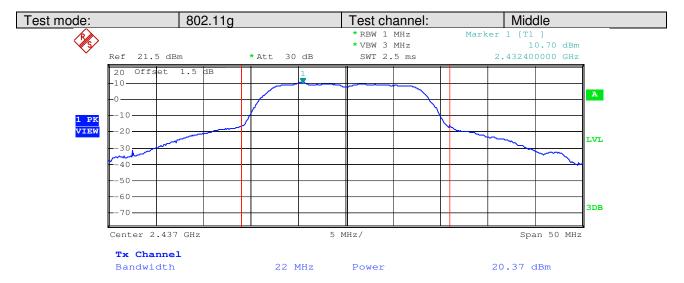


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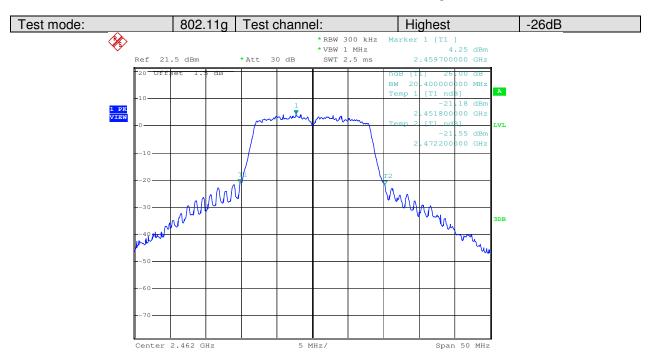


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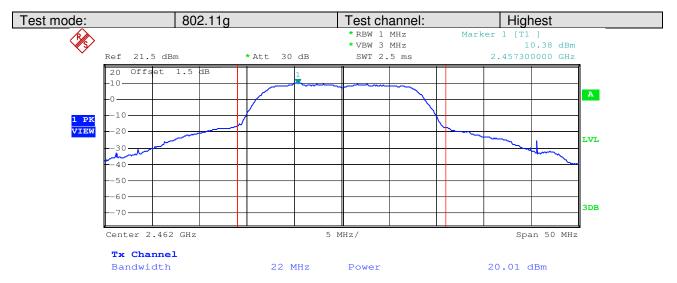


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5.4 6dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2009 and KDB558074
Requirement:	≥500kHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 4.7 for details
Test results:	Pass

Measurement Data

modelation but					
802.11b mode					
Test channel	6dB Occupy Bandwidth (MHz)	Result			
Lowest	10.38	≥500	Pass		
Middle	10.68	≥500	Pass		
Highest	10.80	≥500	Pass		
	802.11g mode				
Test channel	6dB Occupy Bandwidth (MHz)	Requirement(kHz)	Result		
Lowest	16.62	≥500	Pass		
Middle	16.68	≥500	Pass		
Highest	16.62	≥500	Pass		

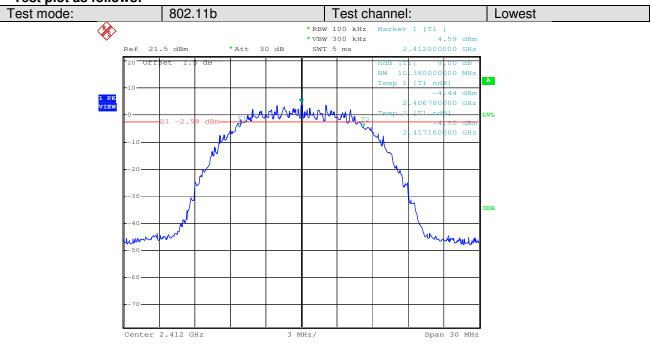
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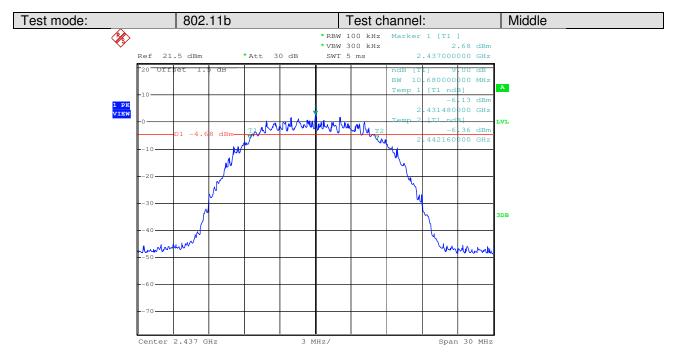
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Test plot as follows:



Date: 16.OCT.2010 13:31:54



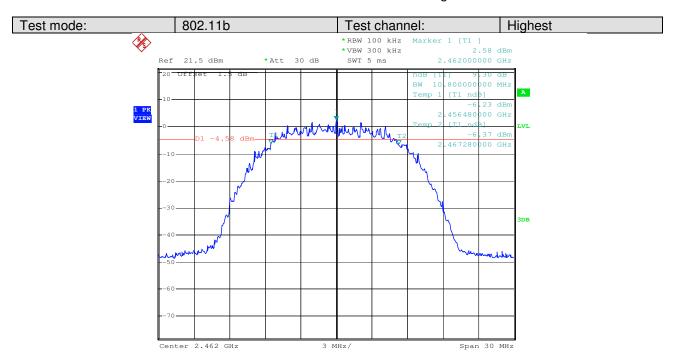
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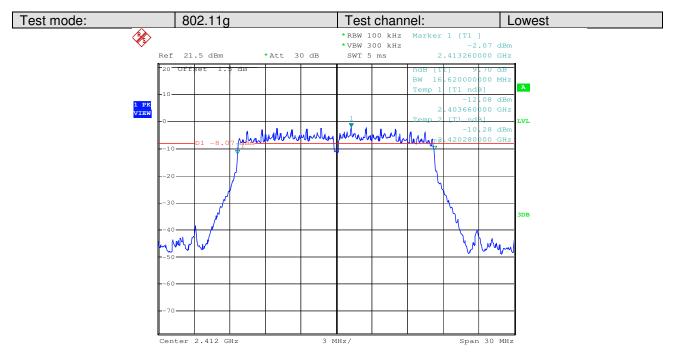


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Date: 16.OCT.2010 13:39:24



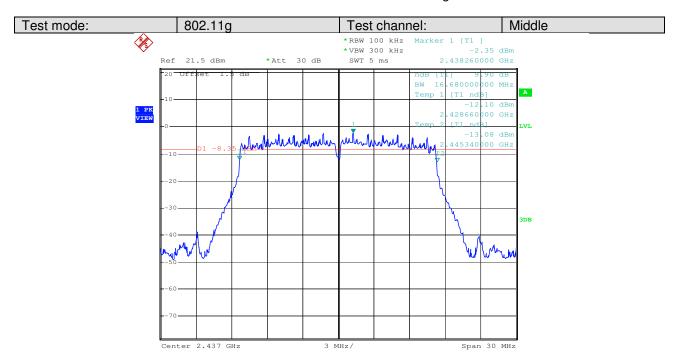
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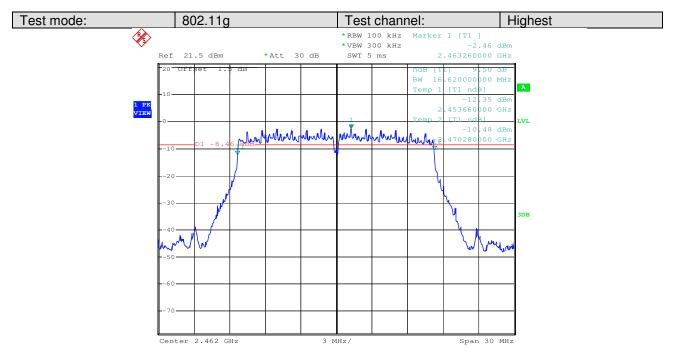


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5.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2009 and KDB558074
Limit:	≤8dBm
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:
	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Test Instruments:	Refer to section 4.7 for details
Test results:	Pass

Measurement Data

Measurement Data				
802.11b mode				
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result	
Lowest	4.70	≤8.00	Pass	
Middle	4.82	≤8.00	Pass	
Highest	4.71	≪8.00	Pass	
	802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result	
Lowest	-12.22	≤8.00	Pass	
Middle	-12.59	≪8.00	Pass	
Highest	-13.18	≪8.00	Pass	

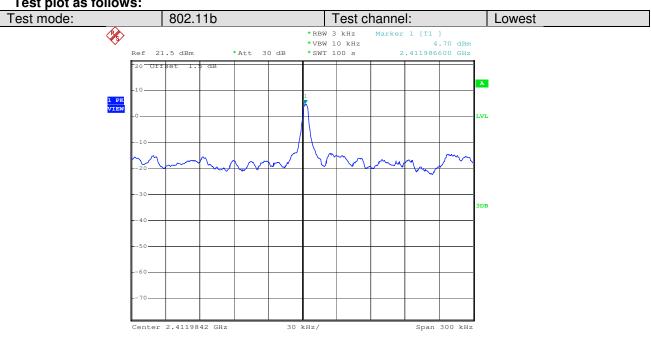
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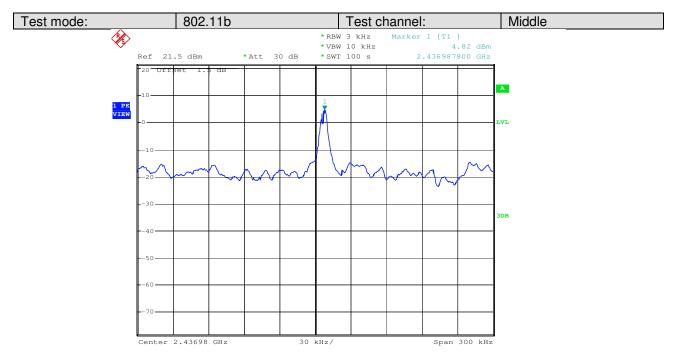
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Test plot as follows:



Date: 21.OCT.2010 15:21:54



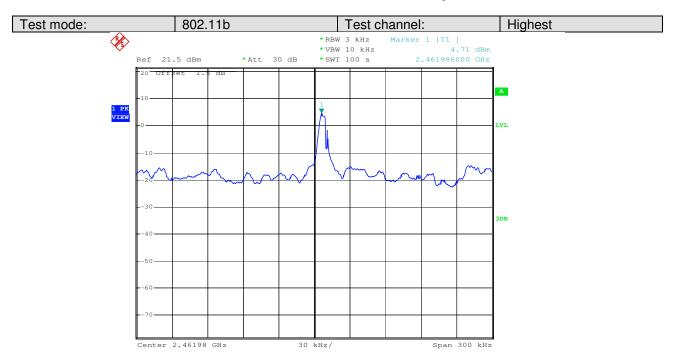
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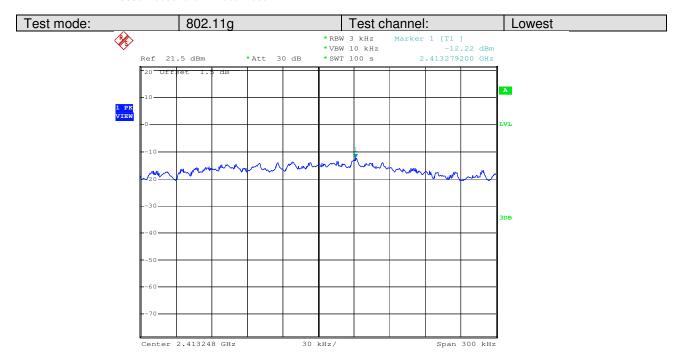


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Date: 15.OCT.2010 08:42:58



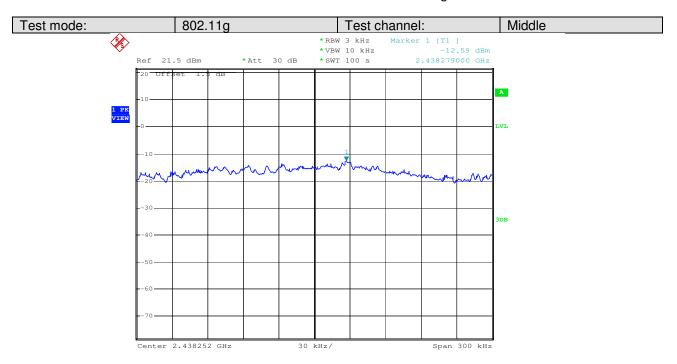
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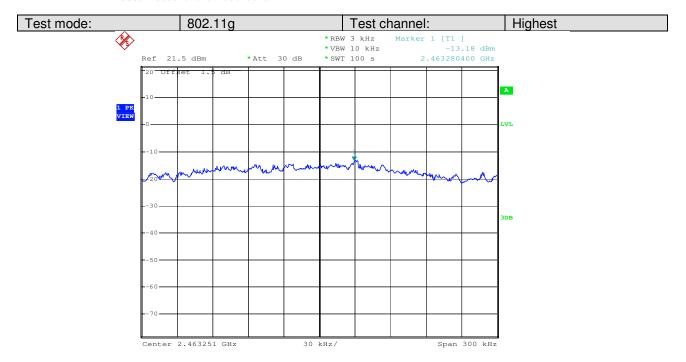


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5.6 Band Edge

Test Requirement:	FCC Part15 C Section 15.247 (d)		
Test Method:	ANSI C63.10:2009 and KDB558074		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark:		
Test Instruments:	Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. Refer to section 4.7 for details		
Test results:	Pass Pass		

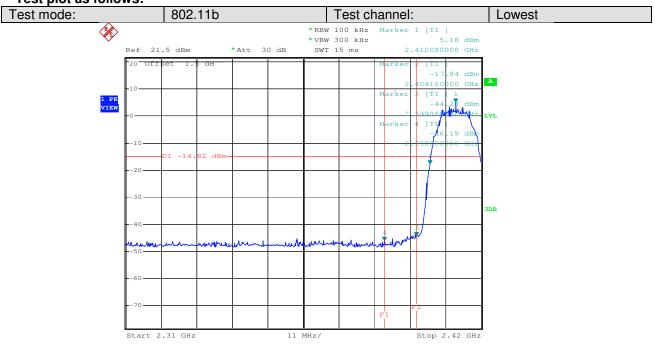
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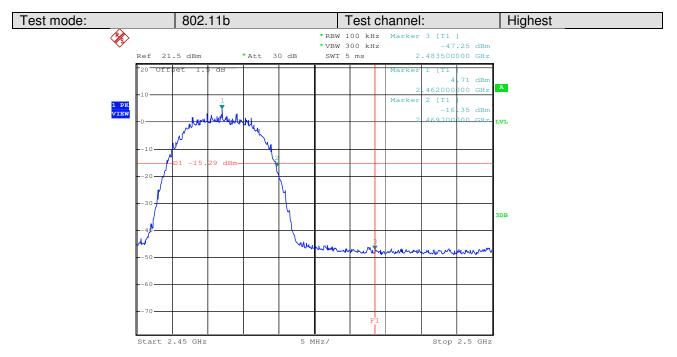
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Test plot as follows:



Date: 15.OCT.2010 08:47:16



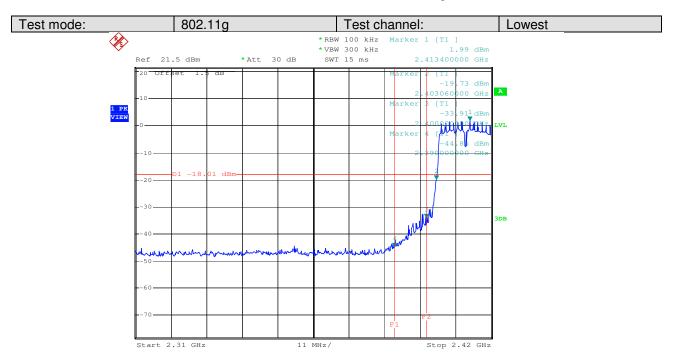
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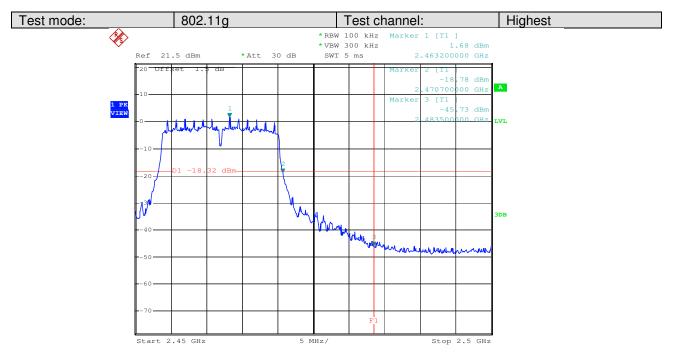


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5.7 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)		
Test Method:	ANSI C63.10:2009 and KDB558074		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Test Instruments:	Refer to section 4.7 for details		
Test results:	Pass		

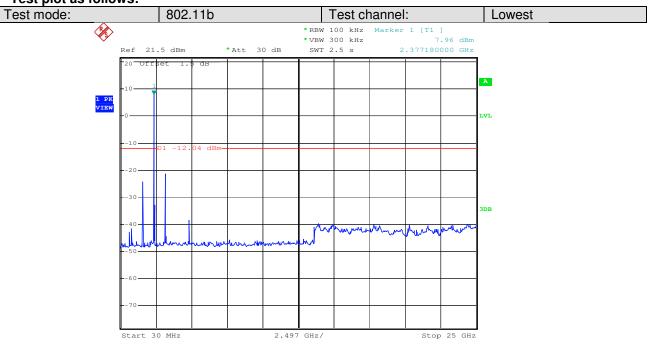
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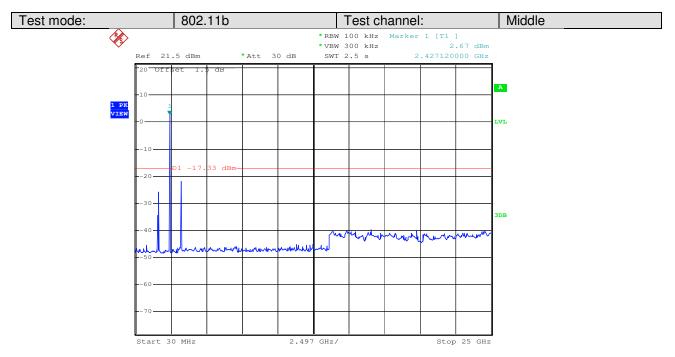
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Test plot as follows:



Date: 15.OCT.2010 08:11:56



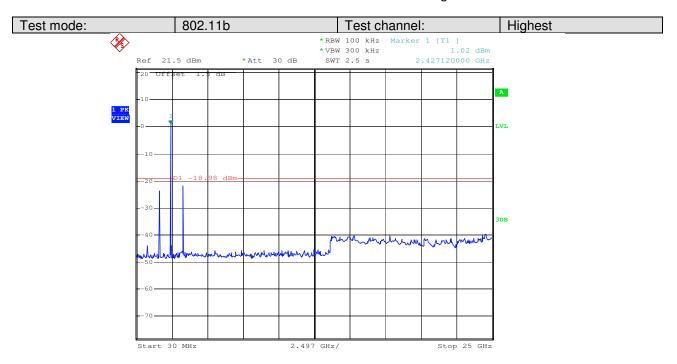
Date: 15.0CT.2010 08:31:35

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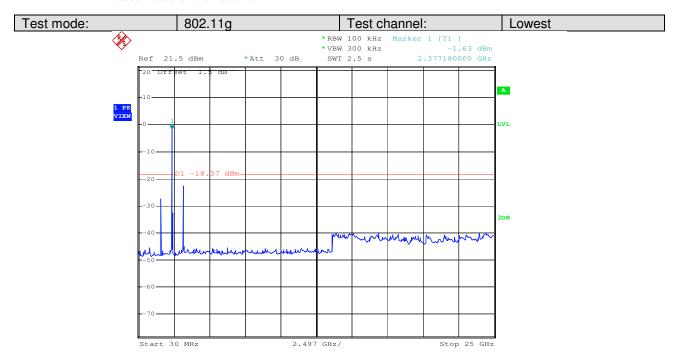


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Date: 15.OCT.2010 08:44:24



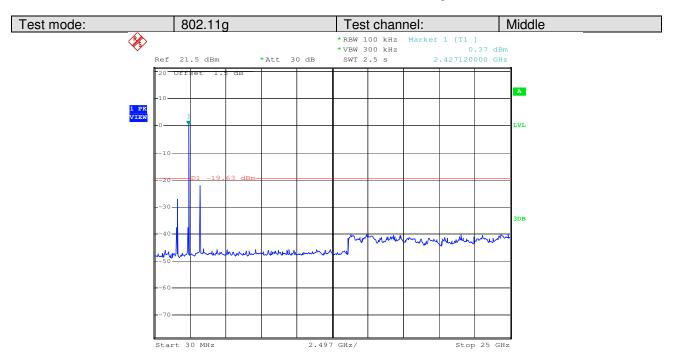
Date: 15.OCT.2010 09:13:08

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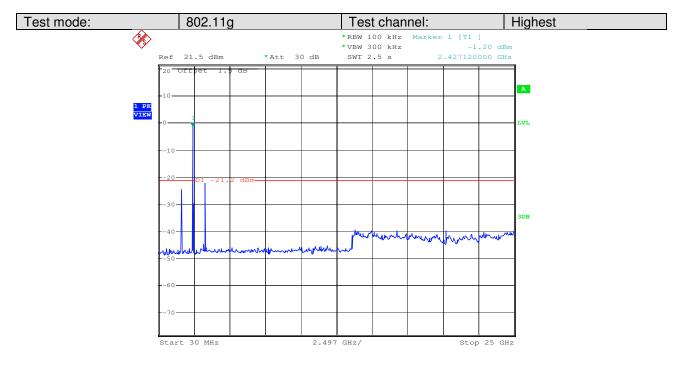


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Date: 15.OCT.2010 09:28:57



Date: 15.0CT.2010 09:40:50

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5.8 Radiated Emission

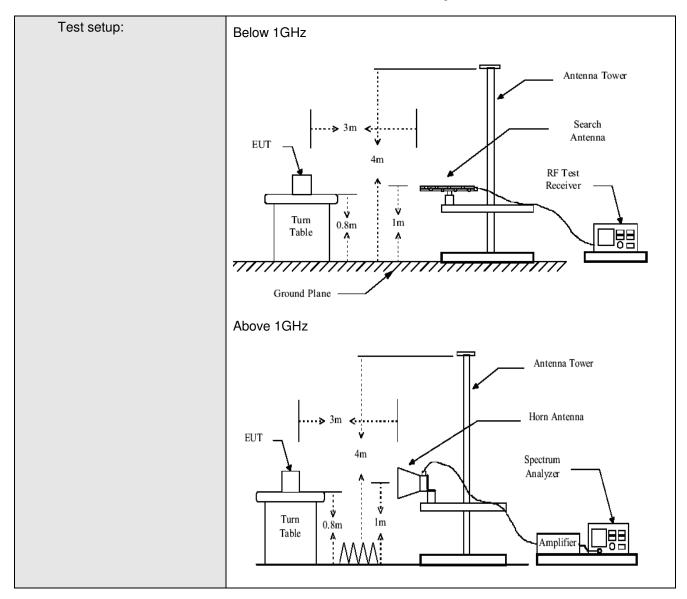
Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	30MHz to 25GHz				
Test site:	Measurement D	istance: 3m (S	Semi-Anecho	ic Chambei	r)
Receiver setup:	Frequency 30MHz-1GHz	Detector Quasi-peak	RBW 100KHz	VBW 300KHz	Remark Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
I too ta		Peak	1MHz	10Hz	Average Value
Limit:	88MHz-216MHz 43.5 Quasi-peak Va 216MHz-960MHz 46.0 Quasi-peak Va 960MHz-1GHz 54.0 Quasi-peak Va Above 1GHz 54.0 Average Value				Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Quasi-peak Value Average Value Peak Value
Test Procedure:	ADOVE 1(3H7				
Test Instruments:	Refer to section				-
Test regulter	Charge, Playing(memory MP4), Playing(SD Card MP4) Pre-scan was performed on the EUT on above modes, and then found the worse case mode is Charge + WI-FI mode. Only the worse case data was displayed.				
Test results:	Pass				

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Note:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



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5.8.1 Radiated emission

Below 1GHz

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
31.940	0.60	14.43	27.55	38.84	26.32	40.00	-13.68	Vertical
48.430	0.77	8.47	27.49	44.18	25.93	40.00	-14.07	Vertical
132.820	1.28	7.82	27.17	57.20	39.13	43.50	-4.37	Vertical
198.780	1.40	10.19	26.84	43.83	28.58	43.50	-14.92	Vertical
265.710	1.75	12.63	26.60	42.97	30.75	46.00	-15.25	Vertical
365.620	2.10	15.78	26.97	41.69	32.60	46.00	-13.40	Vertical
198.780	1.40	10.19	26.84	52.81	37.56	43.50	-5.94	Horizontal
397.630	2.19	16.27	27.16	55.44	46.74	46.00	-0.03	Horizontal
31.940	0.60	14.43	27.55	38.84	26.32	40.00	-13.68	Horizontal
48.430	0.77	8.47	27.49	44.18	25.93	40.00	-14.07	Horizontal
230.790	1.58	11.70	26.72	42.79	29.35	46.00	-16.65	Horizontal
265.710	1.75	12.63	26.60	45.39	33.17	46.00	-12.83	Horizontal

Above 1GHz

Test channel:	Lowest	Remark:	Peak	Mode:	802.11b
1 Cot onamici.	LOWCOL	i tomant.	I can	Wiodo.	002.110

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
2316.000	6.00	29.74	39.83	50.73	46.64	74.00	-27.36	Vertical
3655.500	7.92	32.72	40.07	45.15	45.72	74.00	-28.28	Vertical
4830.500	10.34	34.28	41.43	44.81	48.00	74.00	-26.00	Vertical
7333.250	12.91	37.31	40.40	40.38	50.20	74.00	-23.80	Vertical
9648.000	13.49	37.99	37.64	36.53	50.37	74.00	-23.63	Vertical
12056.750	16.77	39.12	39.13	36.06	52.82	74.00	-21.18	Vertical
2327.750	6.02	29.76	39.75	49.77	45.80	74.00	-28.20	Horizontal
3526.250	7.62	32.57	39.84	44.84	45.19	74.00	-28.81	Horizontal
4842.250	11.47	34.30	41.59	44.82	49.00	74.00	-25.00	Horizontal
7239.250	13.22	37.26	40.78	40.53	50.23	74.00	-23.77	Horizontal
9612.750	13.39	37.99	37.56	36.45	50.27	74.00	-23.73	Horizontal
12056.750	16.77	39.12	39.13	35.02	51.78	74.00	-22.22	Horizontal

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Test channel: Middle Remark: Peak Mode: 802.11b

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m) Over Limit (dB)		Antenna Polarization
1493.500	4.73	27.11	39.75	49.95	42.04	74.00	-31.96	Vertical
3620.250	8.23	32.68	40.64	44.72	44.99	74.00	-29.01	Vertical
4877.500	10.36	34.34	39.89	44.29	49.10	74.00	-24.90	Vertical
7321.500	12.91	37.31	40.40	40.38	50.20	74.00	-23.80	Vertical
9753.750	13.89	38.03	37.94	36.26	50.24	74.00	-23.76	Vertical
12162.500	17.71	39.19	39.23	33.32	50.99	74.00	-23.01	Vertical
1258.500	4.46	26.30	39.34	51.05	42.47	74.00	-31.53	Horizontal
3244.250	6.97	32.22	39.27	45.97	45.89	74.00	-28.11	Horizontal
4865.750	9.68	34.32	40.35	43.14	46.79	74.00	-27.21	Horizontal
7333.250	12.91	37.31	40.40	36.26	46.08	74.00	-27.92	Horizontal
9730.250	13.79	38.02	37.86	37.25	51.20	74.00	-22.80	Horizontal
12162.500	17.71	39.19	39.23	32.87	50.54	74.00	-23.46	Horizontal

Test channel:	Highest	Remark:	Peak	Mode:	802.11b

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
1481.750	4.69	27.07	39.61	49.07	41.22	74.00	-32.78	Vertical
2974.000	6.58	31.83	39.10	46.74	46.05	74.00	-27.95	Vertical
4924.500	10.53	34.41	40.90	44.43	48.47	74.00	-25.53	Vertical
7380.250	12.68	37.35	40.11	38.33	48.25	74.00	-25.75	Vertical
9836.000	14.13	38.05	38.01	34.63	48.80	74.00	-25.20	Vertical
12327.000	17.71	39.30	39.41	32.86	50.46	74.00	-23.54	Vertical
1258.500	4.46	26.30	39.34	52.46	43.88	74.00	-30.12	Horizontal
3690.750	7.50	32.76	39.33	44.81	45.74	74.00	-28.26	Horizontal
4924.500	10.53	34.41	40.90	44.80	48.84	74.00	-25.16	Horizontal
7380.250	12.68	37.35	40.11	39.05	48.97	74.00	-25.03	Horizontal
9859.500	14.17	38.06	37.93	36.17	50.47	74.00	-23.53	Horizontal
12291.750	17.79	39.28	39.38	33.46	51.15	74.00	-22.85	Horizontal



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Test channel: Lowest Remark: Peak Mode: 802.11g

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
2327.750	6.02	29.76	39.75	50.44	46.47	74.00	-27.53	Vertical
3690.750	7.50	32.76	39.33	46.07	47.00	74.00	-27.00	Vertical
4818.750	9.21	34.26	41.27	44.77	46.97	74.00	-27.03	Vertical
7239.250	13.22	37.26	40.78	40.75	50.45	74.00	-23.55	Vertical
9648.000	13.49	37.99	37.64	37.14	50.98	74.00	-23.02	Vertical
12056.750	16.77	39.12	39.13	35.83	52.59	74.00	-21.41	Vertical
2316.000	6.00	29.74	39.83	50.54	46.45	74.00	-27.55	Horizontal
3643.750	8.02	32.70	40.26	45.58	46.04	74.00	-27.96	Horizontal
4830.500	10.34	34.28	41.43	45.41	48.60	74.00	-25.40	Horizontal
7239.250	13.22	37.26	40.78	41.85	51.55	74.00	-22.45	Horizontal
9648.000	13.49	37.99	37.64	36.66	50.50	74.00	-23.50	Horizontal
12056.750	16.77	39.12	39.13	34.24	51.00	74.00	-23.00	Horizontal

rest chamiler. Middle Hemant. Freak Mode: 602.11g	Test channel: Middle Remark: Peak Mode:	802.11g
---	---	---------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Antenna Polarization
1775.500	5.52	27.94	38.94	45.51	40.03	74.00	-33.97	Vertical
3690.750	7.50	32.76	39.33	45.17	46.10	74.00	-27.90	Vertical
4865.750	9.68	34.32	40.35	44.67	48.32	74.00	-25.68	Vertical
7321.500	12.91	37.31	40.40	40.42	50.24	74.00	-23.76	Vertical
9753.750	13.89	38.03	37.94	38.44	52.42	74.00	-21.58	Vertical
12162.500	17.71	39.19	39.23	33.75	51.42	74.00	-22.58	Vertical
1575.750	5.03	27.36	39.07	47.43	40.75	74.00	-33.25	Horizontal
3667.250	7.71	32.74	39.70	44.75	45.50	74.00	-28.50	Horizontal
4865.750	9.68	34.32	40.35	44.71	48.36	74.00	-25.64	Horizontal
7333.250	12.91	37.31	40.40	42.12	51.94	74.00	-22.06	Horizontal
9730.250	13.79	38.02	37.86	36.50	50.45	74.00	-23.55	Horizontal
12197.750	18.03	39.21	39.27	34.82	52.79	74.00	-21.21	Horizontal



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	Test channel:	Highest	Remark:	Peak	Mode:	802.11g
--	---------------	---------	---------	------	-------	---------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Emission Level (dBuV/m)	Limit Line (dBuV/m) Ove Limi (dB)		Antenna Polarization
1470.000	4.66	27.03	39.47	47.09	39.31	74.00	-34.69	Vertical
3726.000	7.42	32.80	39.42	45.13	45.93	74.00	-28.07	Vertical
4924.500	10.53	34.41	40.90	44.40	48.44	74.00	-25.56	Vertical
7380.250	12.68	37.35	40.11	38.55	48.47	74.00	-25.53	Vertical
9836.000	14.13	38.05	38.01	35.14	49.31	74.00	-24.69	Vertical
12327.000	17.71	39.30	39.41	33.70	51.30	74.00	-22.70	Vertical
1258.500	4.46	26.30	39.34	53.06	44.48	74.00	-29.52	Horizontal
3549.750	7.85	32.60	40.17	44.59	44.87	74.00	-29.13	Horizontal
4936.250	10.53	34.41	40.90	43.73	47.77	74.00	-26.23	Horizontal
7380.250	12.68	37.35	40.11	39.41	49.33	74.00	-24.67	Horizontal
9859.500	14.17	38.06	37.93	35.80	50.10	74.00	-23.90	Horizontal
12291.750	17.79	39.28	39.38	33.33	51.02	74.00	-22.98	Horizontal

Remark:

- 1. The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2.As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

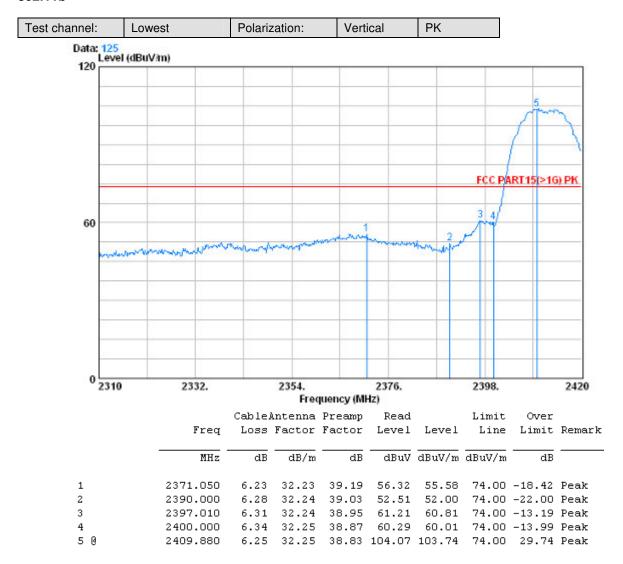


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Band Edge and Restricted band (Radiated measurement)

802.11b

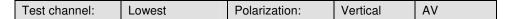


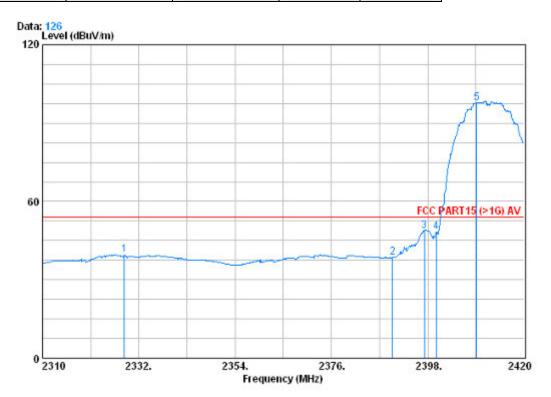
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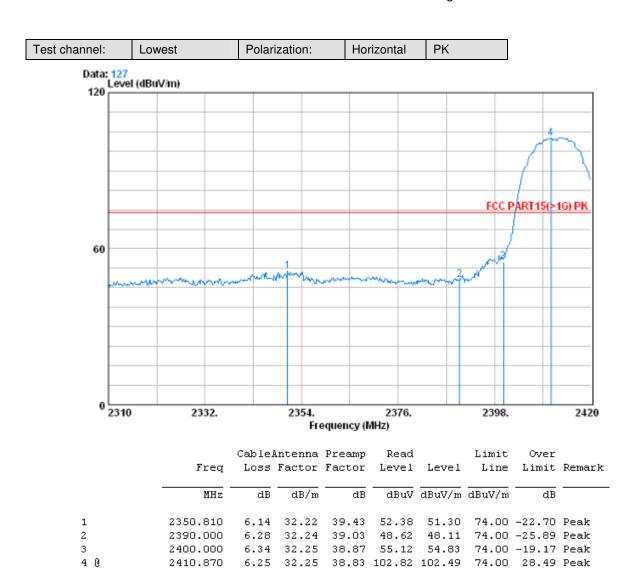


				Preamp			Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2328.700	6.02	32.20	39.75	41.08	39.56	54.00	-14.44	Average
2	2390.000	6.28	32.24	39.03	38.97	38.46	54.00	-15.54	Average
3	2397.230	6.31	32.24	38.95	49.28	48.88	54.00	-5.12	Average
4	2400.000	6.34	32.25	38.87	48.59	48.30	54.00	-5.70	Average
5 0	2409.220	6.25	32.25	38.83	98.26	97.93	54.00	43.93	Average



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5 @

2400.000

2411.090

6.34 32.25

6.25 32.25 38.83

38.87

42.87

95.79

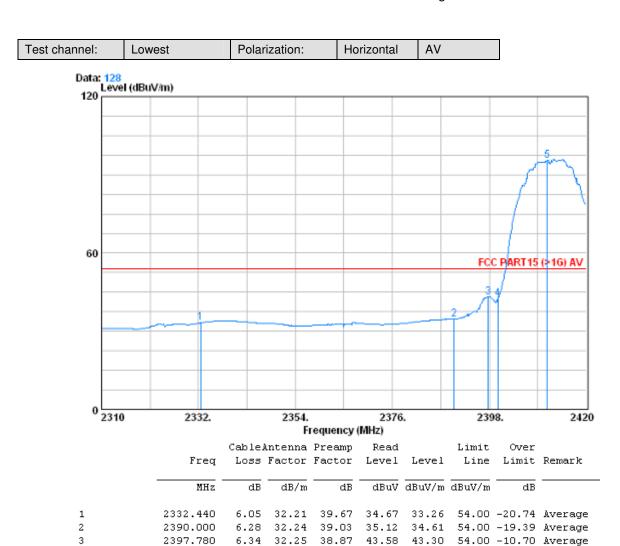
42.58 54.00 -11.42 Average

95.46 54.00 41.46 Average

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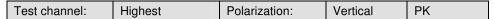


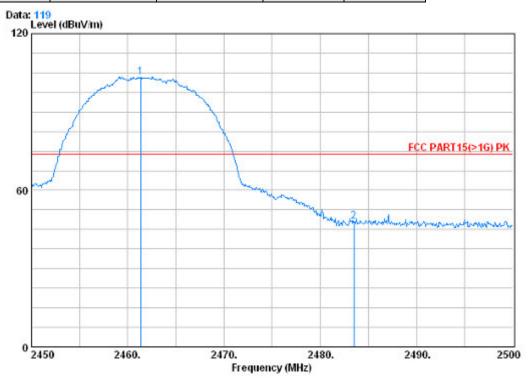
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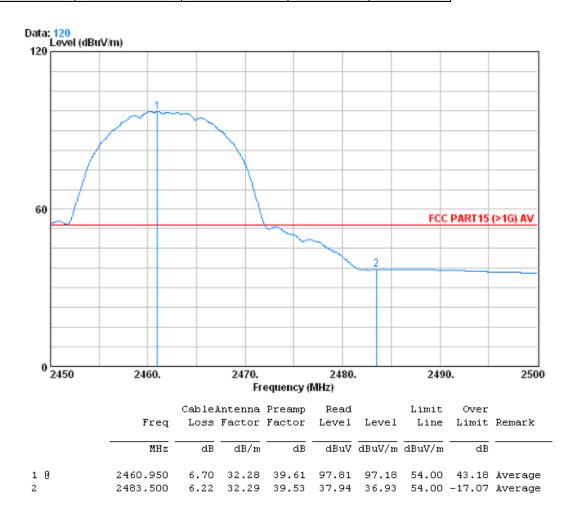
	Freq			-	Read Level		Limit Line		Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2461.350	6.70	32.28	39.61	104.10	103.47	74.00	29.47	Peak
2	2483.500	6.22	32.29	39.53	49.20	48.18	74.00	-25.82	Peak



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Test channel: Highest Polarization: Vertical AV

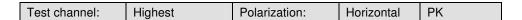


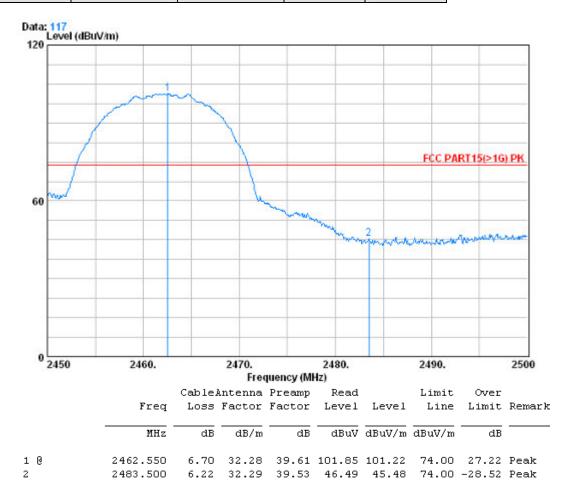
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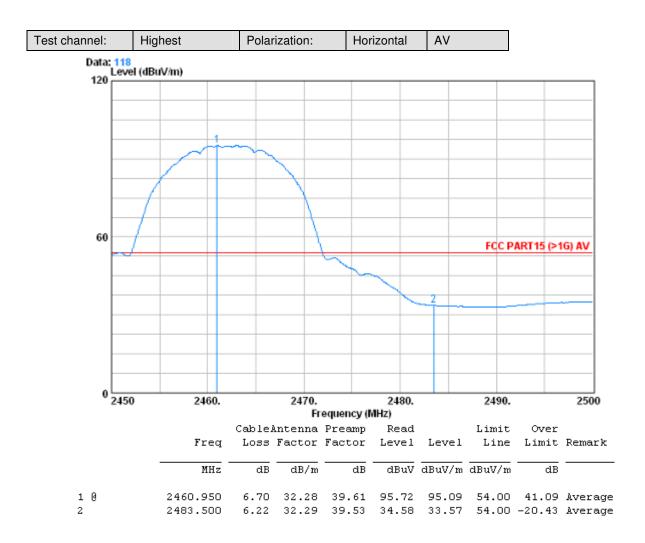


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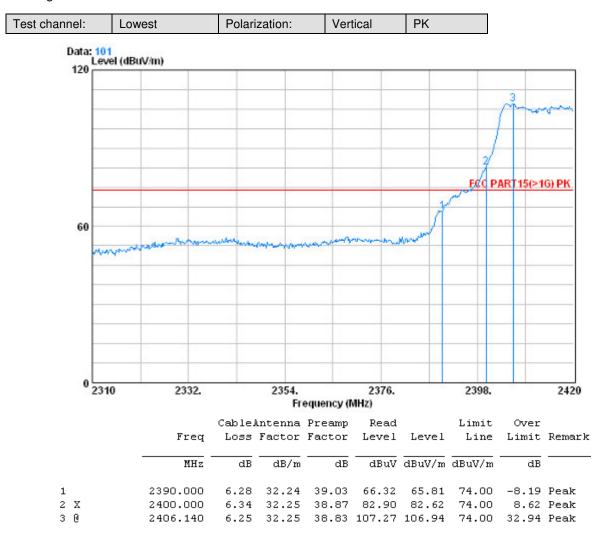




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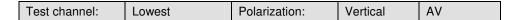


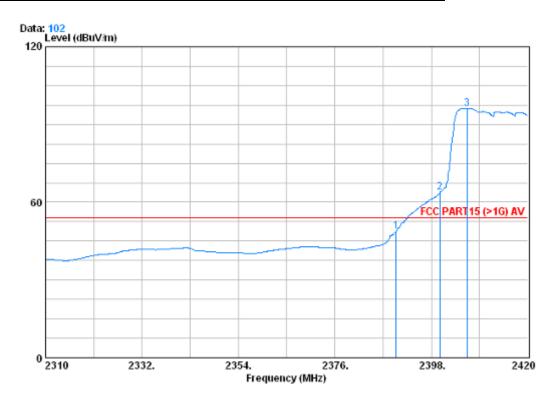
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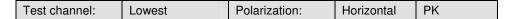


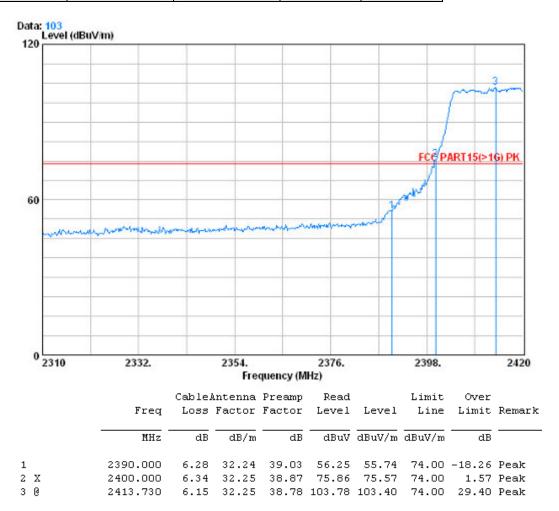
		CableA	ntenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	6.28	32.24	39.03	49.38	48.87	54.00	-5.13	Average
2 X	2400.000	6.34	32.25	38.87	63.91	63.63	54.00	9.63	Average
3 @	2406.140	6.25	32.25	38.83	96.59	96.26	54.00	42.26	Average



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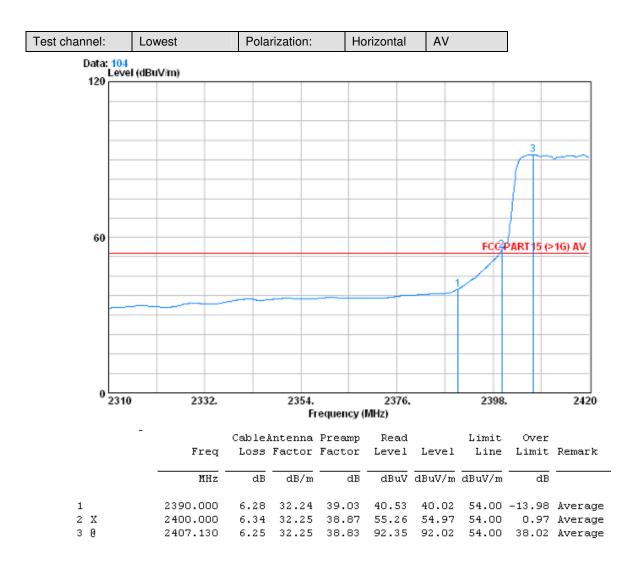


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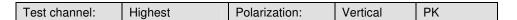
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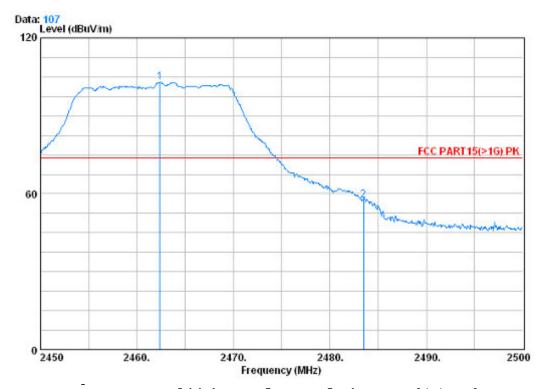




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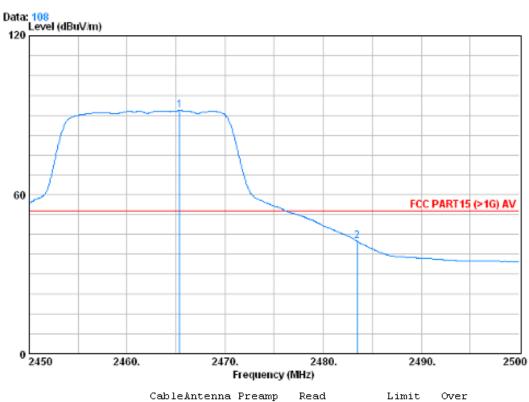
		Cable	Antenna	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remar
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2462.350	6.70	32.28	39.61	103.53	102.90	74.00	28.90	Peak
2	2483.500	6.22	32.29	39.53	58.41	57.39	74.00	-16.61	Peak



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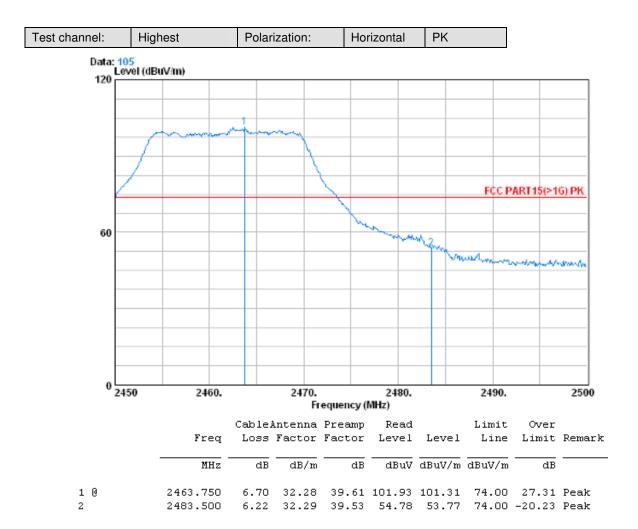


	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 0	2465.350	6.70	32.28	39.61	92.40	91.77	54.00	37.77	Average
2	2483.500	6.22	32.29	39.53	43.38	42.36	54.00	-11.64	Average



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