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Report No.: SZEMO09100616601
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FCC REPORT

Application No: SZEMO091006166RF
Applicant: Binatone Electronics International Limited
Product Name: DPF
Operation Frequency: 2412MHz to 2462MHz
FCC ID: VLJ-LS1000WB
Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2008
Date of Receipt: 31 October 2009
Date of Test: 04 November to 10 December 2009
Date of Issue: 11 December 2009

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

Authorized Signature:

Robinson Lo
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)	Passed
AC Power Line Conducted Emission	15.207	Passed
Conducted Peak Output Power	15.247 (b)(3)	Passed
6dB Occupied Bandwidth	15.247 (a)(2)	Passed
Power Spectral Density	15.247 (e)	Passed
Radiated Emission	15.205/15.209	Passed
Band Edge	15.247(d)	Passed

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

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

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:	Electronics Co., Ltd
Factory:	Electronics Factory
Address of Manufacturer/ Factory:	New industrial Developing Zone, Xiao Bian, Chang An Town, Dong Guan Guangdong China

4.2 General Description of E.U.T.

Product Name:	DPF
Trade Name:	N/A
Item No.:	LS1000Wb
Operation Frequency:	2412MHz~2462MHz
Channel numbers:	11
Channel separation:	5MHz
Modulation type: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation type: (IEEE 802.11g)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps
Antenna Type:	Integral
Power supply:	Input: AC 100-240V 50/60Hz 0.8A Output: DC 5.0V 3000mA

Operation Frequency of each channel							
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	X	

Note:

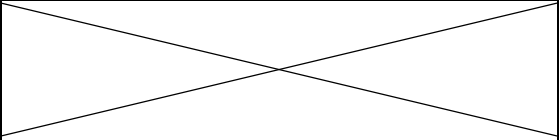
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

4.3 Test environment and mode

Test Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1008 mbar
Test mode:	
Wi-Fi mode	Keep the EUT exchange data and other Wi-Fi device.
SD mode	Keep the EUT playing by SD card
Internal memory mode	Keep the EUT playing by Internal memory
USB mode	Keep the EUT playing by U-disk

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:

Pre-Test Mode:								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	18.34	18.55	20.15	22.79				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	17.66	17.85	18.34	18.99	20.12	20.89	22.04	22.18
Final Test Mode:								
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”								
11Mbps for 802.11b, 54Mbps for 802.11g								

4.4 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.

4.5 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.

4.6 Other Information Requested by the Customer

None.

4.7 Test Instruments list

RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2009	15-06-2010
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2009	11-12-2010
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2009	17-06-2010
6	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2009	11-08-2010
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2009	11-08-2010
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2009	11-08-2010
9	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2009	17-06-2010
10	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2009	17-06-2010
11	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	SEL0080	18-06-2009	17-06-2010
12	Band filter	Amindeon	82346	SEL0094	18-06-2009	17-06-2010

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	N/A	N/A
2	LISN	ETS-LINDGREN	3816/2	SEL0021	18-06-2009	17-06-2010
3	LISN	Schwarzbeck	NNBM 8125	SEL0119	28-07-2009	28-07-2010
4	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	18-06-2009	17-06-2010
5	Coaxial Cable	SGS	N/A	SEL0024	18-06-2009	17-06-2010

RF conducted						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Spectrum Analyzer	Rohde & Schwarz	10336/030	EMC0040	16-06-2009	15-06-2010
2	Coaxial cable	SGS	N/A	SEL0029	18-06-2009	17-06-2010

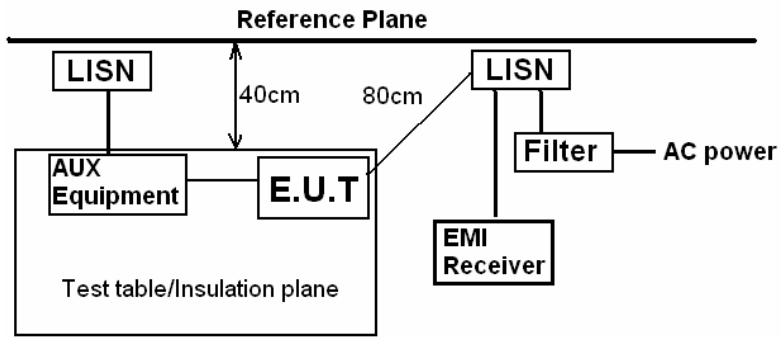


5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: <i>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.</i>	
15.247(c) (1)(i) requirement: <i>(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.</i>	
E.U.T Antenna:	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.	

5.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.4: 2003														
Test Frequency Range:	150KHz to 30MHz														
Class / Severity:	Class B														
Receiver setup:	RBW=9KHz, VBW=30KHz														
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
	Frequency range (MHz)		Limit (dBuV)												
		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 of the frequency.															
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). The provider 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 refer 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 C63.4: 2003 on conducted measurement.														
Test setup:	 <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Instruments:	Refer to section 4.7 for details														
Test mode:	WiFi mode, SD card mode, Internal memory mode and USB mode														
Test results:	Passed														

Measurement Data

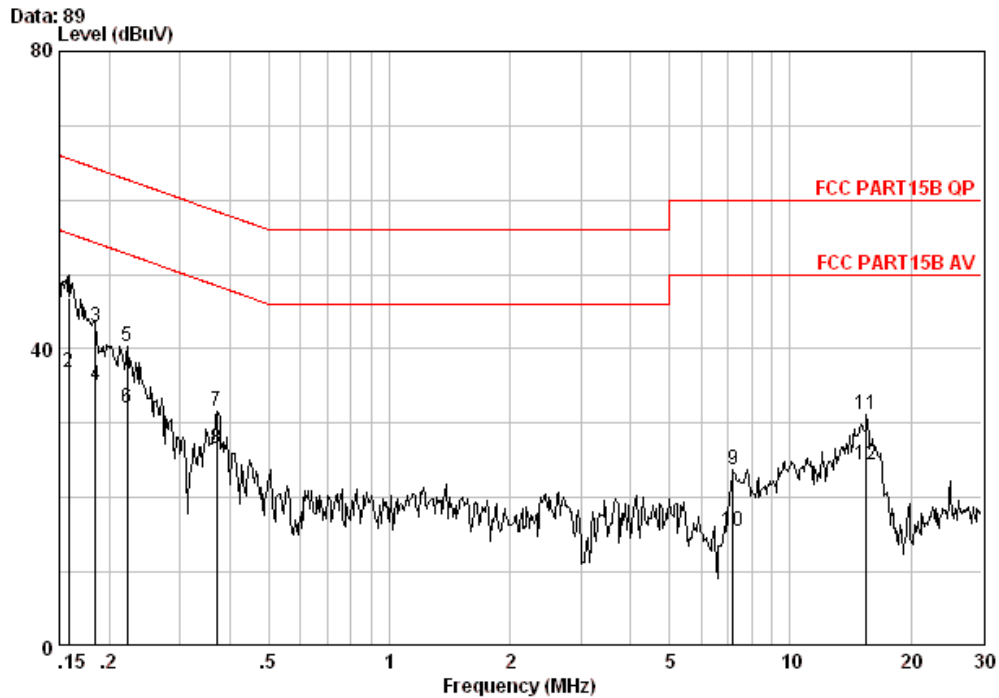
An initial pre-scan was performed on the live and neutral lines with peak detector.

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

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WiFi mode

Live Line:



Site : Shielding Room
 Condition : FCC PART15B QP CE LINE
 EUT : DPF
 Job No. : 6166RF
 Test mode : WIFI

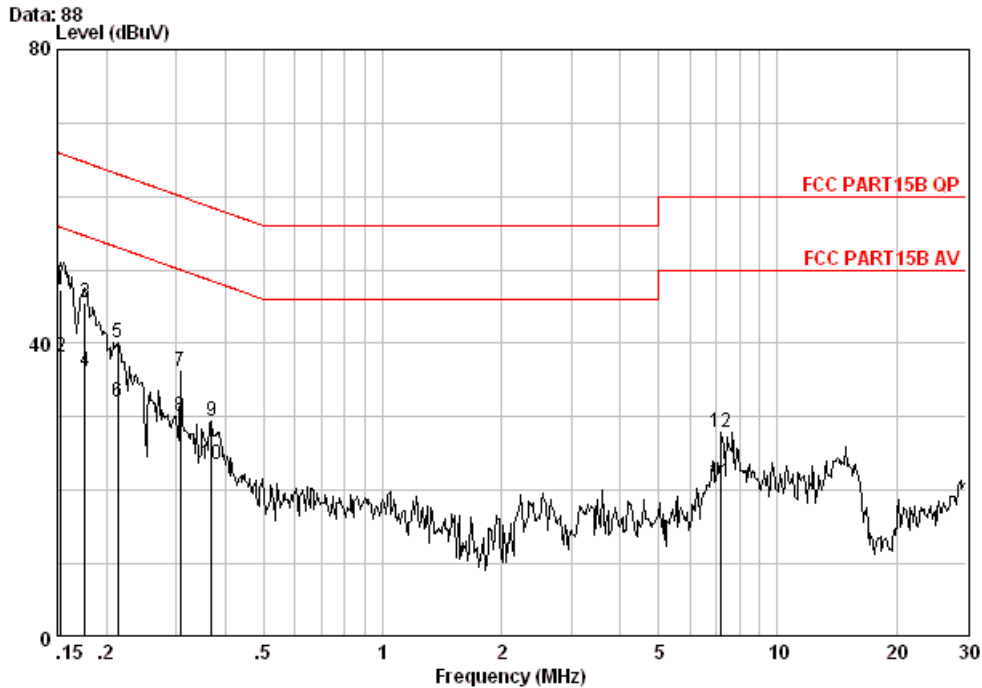
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.15816	0.04	-0.05	46.80	46.79	65.56	-18.77	QP
2 @	0.15816	0.04	-0.05	36.80	36.79	55.56	-18.77	Average
3	0.18443	0.04	-0.05	43.04	43.03	64.28	-21.25	QP
4	0.18443	0.04	-0.05	35.10	35.09	54.28	-19.19	Average
5	0.22201	0.04	-0.04	40.39	40.39	62.74	-22.35	QP
6	0.22201	0.04	-0.04	32.10	32.10	52.74	-20.65	Average
7	0.37117	0.05	-0.04	31.71	31.72	58.47	-26.76	QP
8	0.37117	0.05	-0.04	26.50	26.51	48.47	-21.96	Average
9	7.213	0.20	-0.16	23.69	23.72	60.00	-36.28	QP
10	7.213	0.20	-0.16	15.50	15.54	50.00	-34.46	Average
11	15.470	0.25	-0.51	31.42	31.16	60.00	-28.84	QP
12	15.470	0.25	-0.51	24.70	24.44	50.00	-25.56	Average

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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Neutral Line:



Site : Shielding Room
 Condition : FCC PART15B QP CE NEUTRAL
 EUT : DPF
 Job No. : 6166RF
 Test mode : WIFI

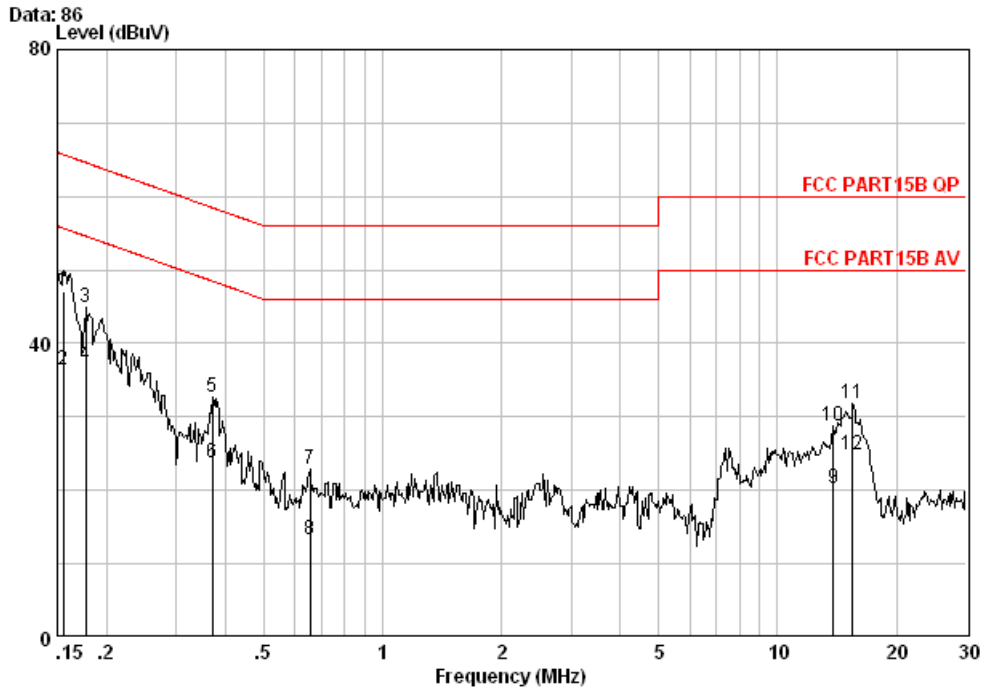
	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1 @	0.15321	0.04	-0.05	47.20	47.19	65.82	-18.63 QP
2 @	0.15321	0.04	-0.05	38.20	38.19	55.82	-17.63 Average
3	0.17584	0.04	-0.04	45.60	45.60	64.68	-19.08 QP
4 @	0.17584	0.04	-0.04	36.20	36.20	54.68	-18.48 Average
5	0.21392	0.04	-0.04	40.06	40.06	63.05	-22.99 QP
6	0.21392	0.04	-0.04	32.10	32.10	53.05	-20.95 Average
7	0.30671	0.05	-0.04	36.09	36.10	60.06	-23.96 QP
8	0.30671	0.05	-0.04	30.10	30.11	50.06	-19.95 Average
9	0.36920	0.05	-0.04	29.36	29.37	58.52	-29.15 QP
10	0.36920	0.05	-0.04	23.50	23.52	48.52	-25.00 Average
11	7.213	0.20	-0.19	21.10	21.11	50.00	-28.89 Average
12	7.213	0.20	-0.19	27.87	27.88	60.00	-32.12 QP

Notes:

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

SD Card mode

Live Line:



Site : Shielding Room
 Condition : FCC PART15B QP CE LINE
 EUT : DPF
 Job No. : 6166RF
 Test mode : SD CARD

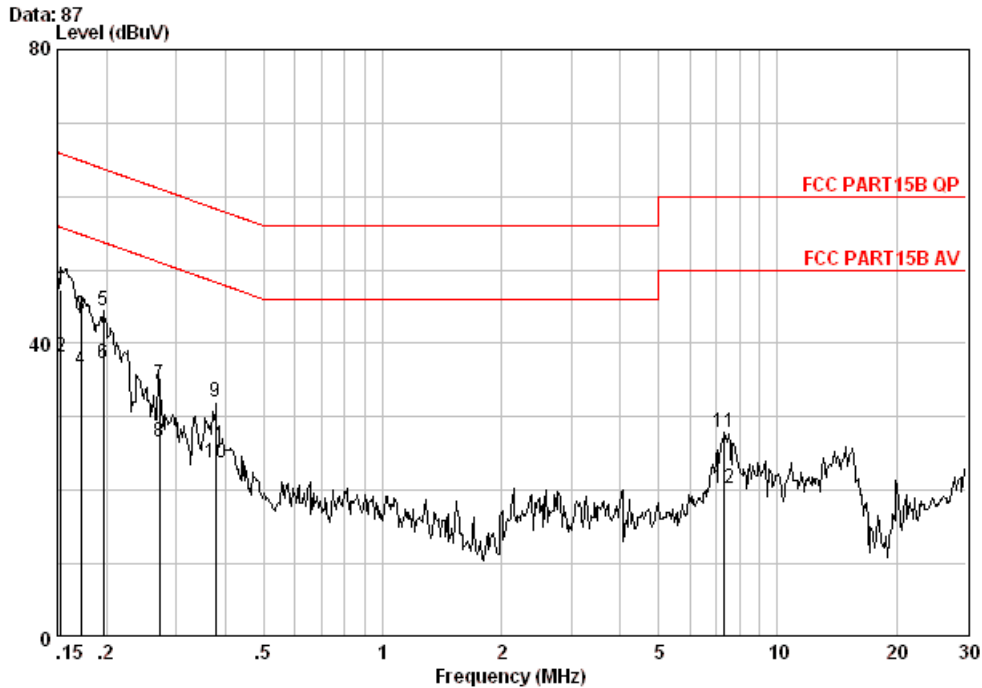
	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1 @	0.15567	0.04	-0.05	47.01	47.00	65.69	-18.69 QP
2	0.15567	0.04	-0.05	36.50	36.49	55.69	-19.20 Average
3	0.17678	0.04	-0.05	44.90	44.90	64.64	-19.74 QP
4 @	0.17678	0.04	-0.05	37.10	37.09	54.64	-17.54 Average
5	0.37117	0.05	-0.04	32.76	32.77	58.47	-25.70 QP
6	0.37117	0.05	-0.04	23.80	23.81	48.47	-24.66 Average
7	0.65430	0.06	-0.05	22.91	22.92	56.00	-33.08 QP
8	0.65430	0.06	-0.05	13.20	13.21	46.00	-32.79 Average
9	13.841	0.24	-0.46	20.40	20.18	50.00	-29.82 Average
10	13.841	0.24	-0.46	29.01	28.79	60.00	-31.21 QP
11	15.470	0.25	-0.51	32.04	31.78	60.00	-28.22 QP
12	15.470	0.25	-0.51	25.10	24.84	50.00	-25.16 Average

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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Neutral Line:



Site : Shielding Room
 Condition : FCC PART15B QP CE NEUTRAL
 EUT : DPF
 Job No. : 6166RF
 Test mode : SD CARD

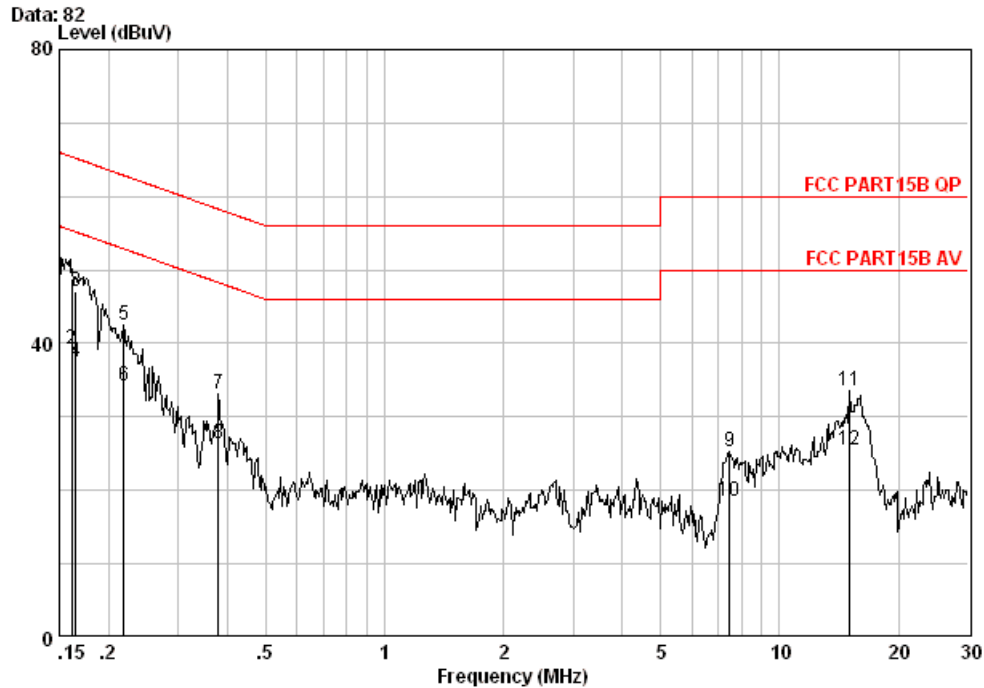
	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 @	0.15321	0.04	-0.05	47.20	47.19	65.82	-18.63 QP
2 @	0.15321	0.04	-0.05	38.10	38.09	55.82	-17.73 Average
3	0.17215	0.04	-0.04	43.83	43.83	64.86	-21.03 QP
4 @	0.17215	0.04	-0.04	36.30	36.30	54.86	-18.56 Average
5	0.19654	0.04	-0.04	44.55	44.54	63.76	-19.21 QP
6 @	0.19654	0.04	-0.04	37.20	37.20	53.76	-16.56 Average
7	0.27152	0.05	-0.04	34.48	34.49	61.07	-26.58 QP
8	0.27152	0.05	-0.04	26.50	26.51	51.07	-24.56 Average
9	0.37711	0.05	-0.04	32.10	32.12	58.34	-26.23 QP
10	0.37711	0.05	-0.04	23.80	23.82	48.34	-24.53 Average
11	7.329	0.20	-0.19	27.83	27.83	60.00	-32.17 QP
12	7.329	0.20	-0.19	20.20	20.21	50.00	-29.79 Average

Notes:

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

Internal Memory mode

Live Line:



Site : Shielding Room
 Condition : FCC PART15B QP CE LINE
 EUT : DPF
 Job No. : 6166RF
 Test mode : INTERNAL MEMORY

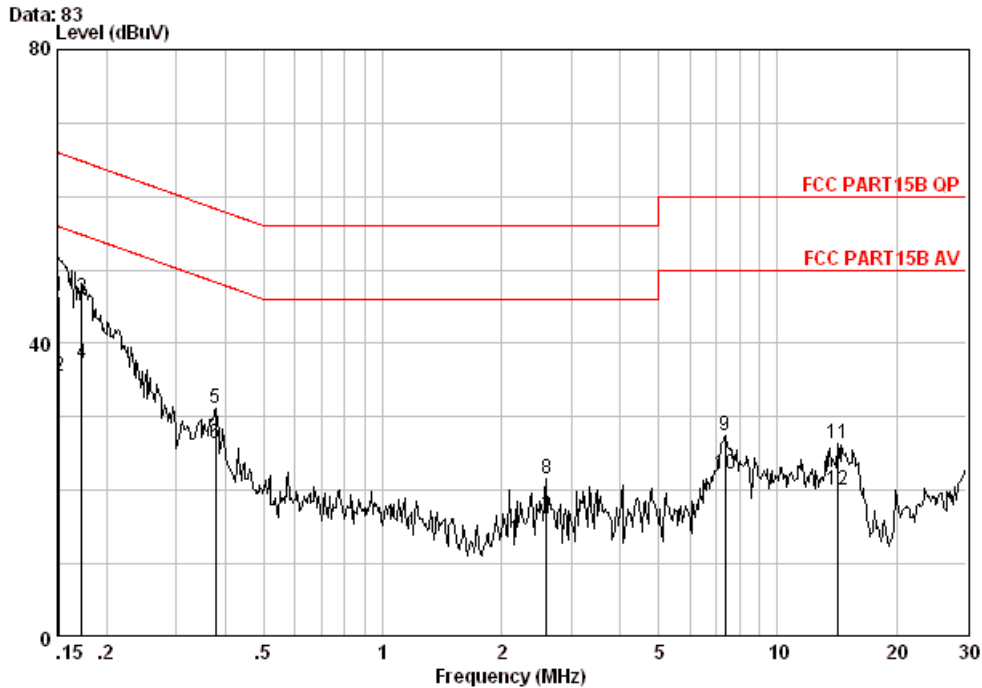
	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1 @	0.16155	0.04	-0.05	48.80	65.38	-16.59	QP
2 @	0.16155	0.04	-0.05	39.30	55.38	-16.09	Average
3 @	0.16501	0.04	-0.05	47.15	65.21	-18.07	QP
4 @	0.16501	0.04	-0.05	37.50	55.21	-17.72	Average
5	0.21851	0.04	-0.04	42.47	62.88	-20.41	QP
6 @	0.21851	0.04	-0.04	34.20	52.88	-18.68	Average
7	0.37912	0.05	-0.04	33.08	58.30	-25.20	QP
8	0.37912	0.05	-0.04	26.30	48.30	-21.99	Average
9	7.486	0.20	-0.17	25.26	60.00	-34.71	QP
10	7.486	0.20	-0.17	18.50	50.00	-31.47	Average
11	15.066	0.25	-0.50	33.84	60.00	-26.41	QP
12	15.066	0.25	-0.50	25.80	50.00	-24.45	Average

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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Neutral Line:



Site : Shielding Room
 Condition : FCC PART15B QP CE NEUTRAL
 EUT : DPF
 Job No. : 6166RF
 Test mode : INTERNAL MEMORY

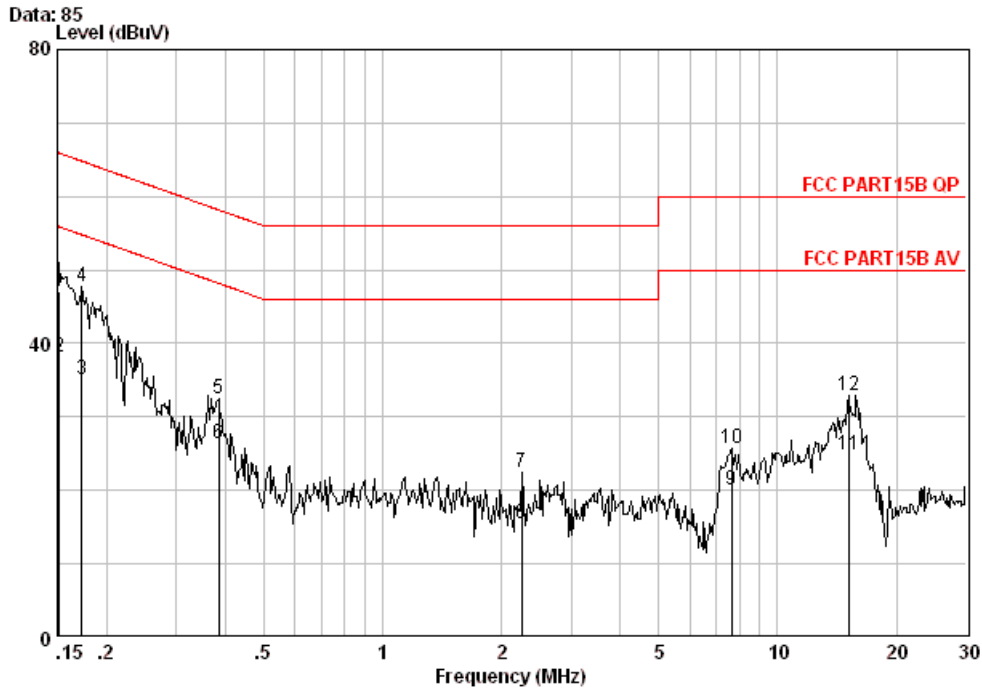
	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15160	0.04	-0.05	46.50	46.49	65.91	-19.42	QP
2	0.15160	0.04	-0.05	35.50	35.49	55.91	-20.42	Average
3 @	0.17307	0.04	-0.04	46.20	46.19	64.81	-18.62	QP
4 @	0.17307	0.04	-0.04	37.20	37.20	54.81	-17.62	Average
5	0.37711	0.05	-0.04	31.15	31.17	58.34	-27.18	QP
6	0.37711	0.05	-0.04	26.30	26.32	48.34	-22.03	Average
7	2.594	0.13	-0.07	16.30	16.36	46.00	-29.64	Average
8	2.594	0.13	-0.07	21.48	21.54	56.00	-34.46	QP
9	7.368	0.20	-0.19	27.46	27.47	60.00	-32.53	QP
10	7.368	0.20	-0.19	22.30	22.31	50.00	-27.69	Average
11	14.213	0.25	-0.44	26.50	26.31	60.00	-33.69	QP
12	14.213	0.25	-0.44	20.20	20.01	50.00	-29.99	Average

Notes:

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

USB mode

Live Line:



Site : Shielding Room
 Condition : FCC PART15B QP CE LINE
 EUT : DPF
 Job No. : 6166RF
 Test mode : USB

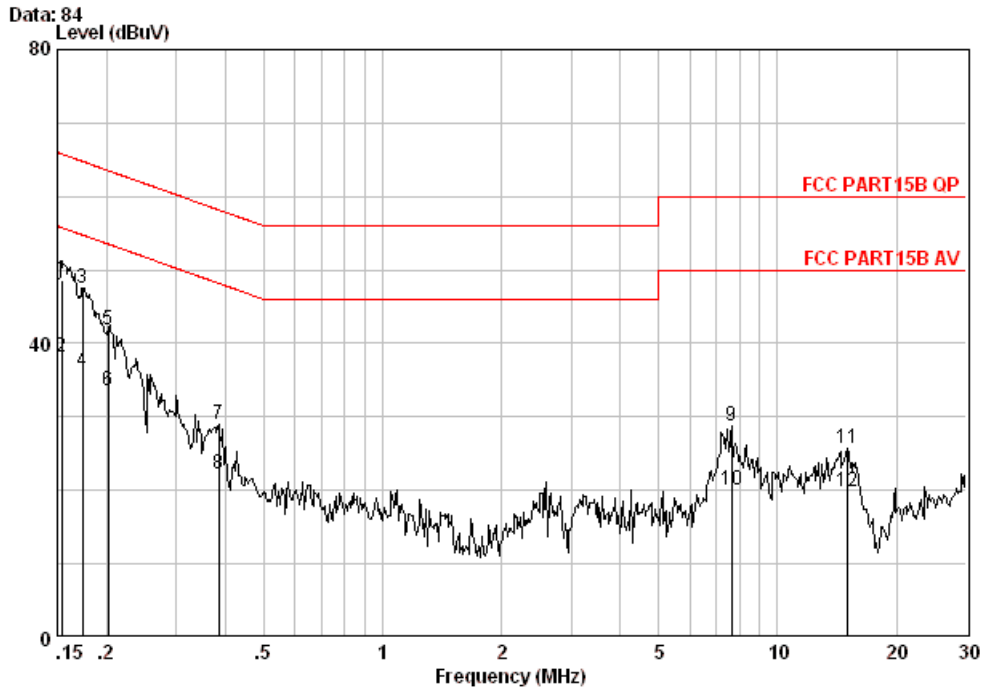
	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15160	0.04	-0.05	47.10	47.09	65.91	-18.82 QP
2 @	0.15160	0.04	-0.05	38.20	38.19	55.91	-17.72 Average
3	0.17307	0.04	-0.05	35.20	35.19	54.81	-19.62 Average
4 @	0.17307	0.04	-0.05	47.75	47.74	64.81	-17.07 QP
5	0.38519	0.05	-0.04	32.46	32.47	58.17	-25.70 QP
6	0.38519	0.05	-0.04	26.30	26.31	48.17	-21.85 Average
7	2.249	0.12	-0.07	22.48	22.54	56.00	-33.46 QP
8	2.249	0.12	-0.07	15.50	15.56	46.00	-30.44 Average
9	7.646	0.20	-0.17	20.10	20.13	50.00	-29.87 Average
10	7.646	0.20	-0.17	25.68	25.71	60.00	-34.29 QP
11	15.146	0.25	-0.50	25.10	24.85	50.00	-25.15 Average
12	15.146	0.25	-0.50	33.22	32.96	60.00	-27.04 QP

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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Neutral Line:



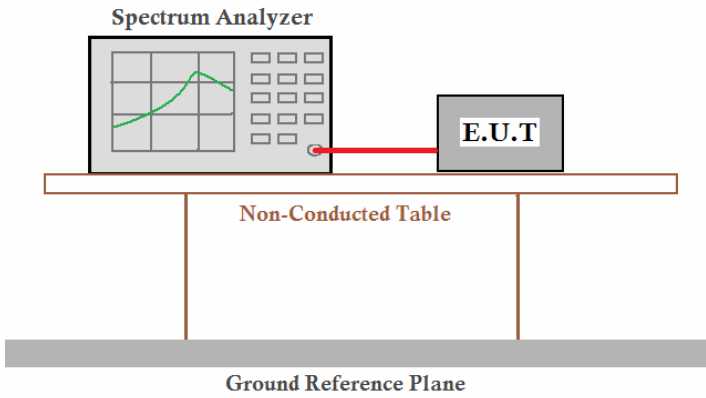
Site : Shielding Room
 Condition : FCC PART15B QP CE NEUTRAL
 EUT : DPF
 Job No. : 6166RF
 Test mode : USB

	Freq	Cable Loss	LISN Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1 @	0.15403	0.04	-0.05	48.52	48.52	65.78	-17.26 QP
2 @	0.15403	0.04	-0.05	38.20	38.19	55.78	-17.59 Average
3 @	0.17399	0.04	-0.04	47.56	47.56	64.77	-17.21 QP
4 @	0.17399	0.04	-0.04	36.10	36.10	54.77	-18.67 Average
5	0.20181	0.04	-0.04	41.76	41.76	63.54	-21.77 QP
6	0.20181	0.04	-0.04	33.60	33.60	53.54	-19.94 Average
7	0.38519	0.05	-0.04	29.06	29.07	58.17	-29.09 QP
8	0.38519	0.05	-0.04	22.30	22.32	48.17	-25.85 Average
9	7.646	0.20	-0.20	28.81	28.81	60.00	-31.19 QP
10	7.646	0.20	-0.20	20.10	20.10	50.00	-29.90 Average
11	15.066	0.25	-0.46	26.02	25.82	60.00	-34.18 QP
12	15.066	0.25	-0.46	20.10	19.89	50.00	-30.11 Average

Notes:

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

5.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	30dBm
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

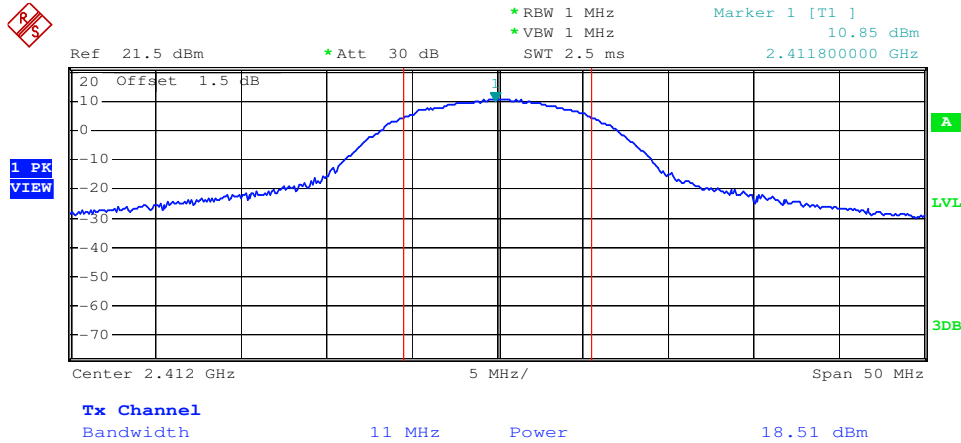
Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	18.51	30.00	Pass
Middle	22.51	30.00	Pass
Highest	22.79	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	17.85	30.00	Pass
Middle	21.97	30.00	Pass
Highest	22.18	30.00	Pass

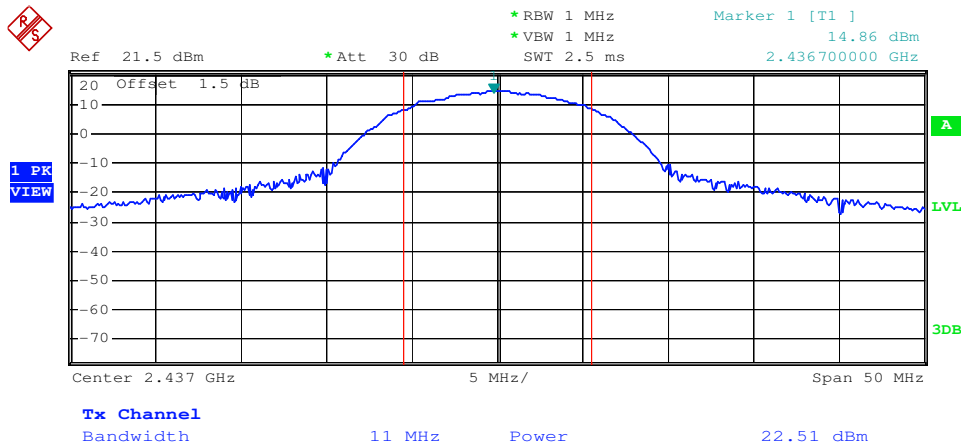
Test plot as follows:



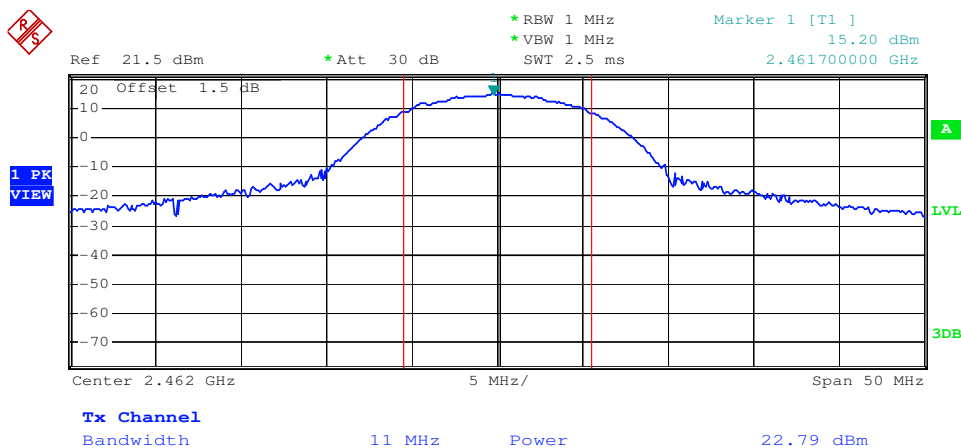
Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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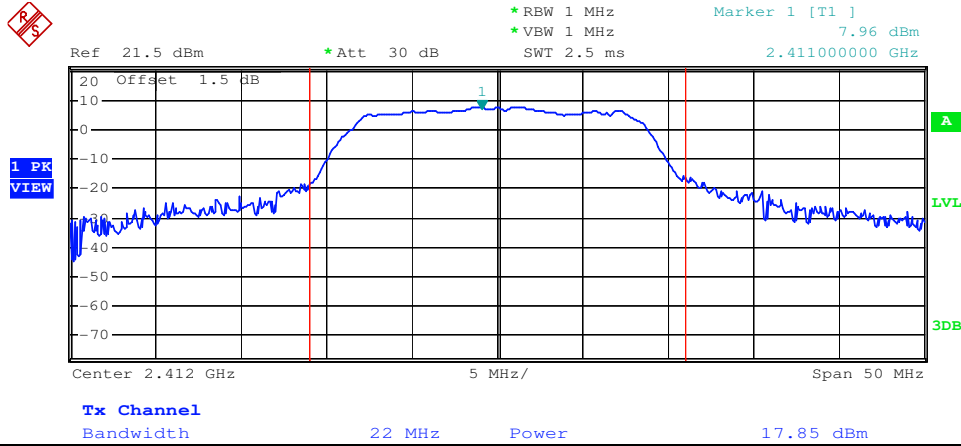
Test mode:	802.11b	Test channel:	Highest
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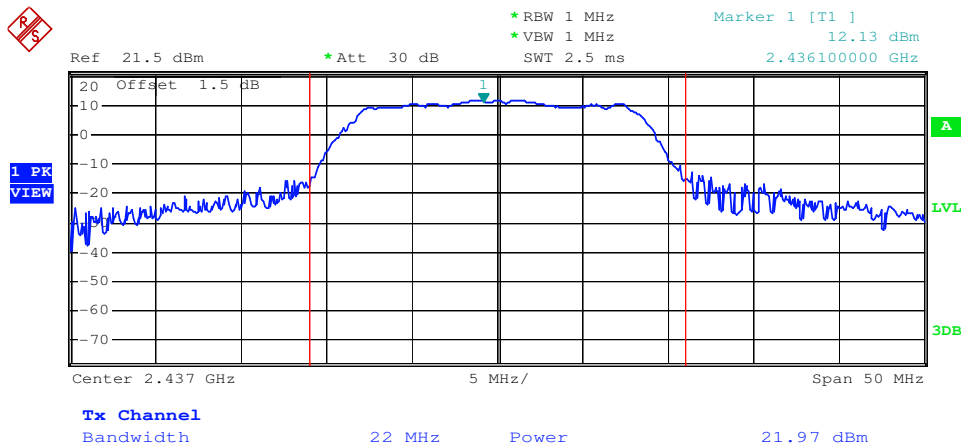
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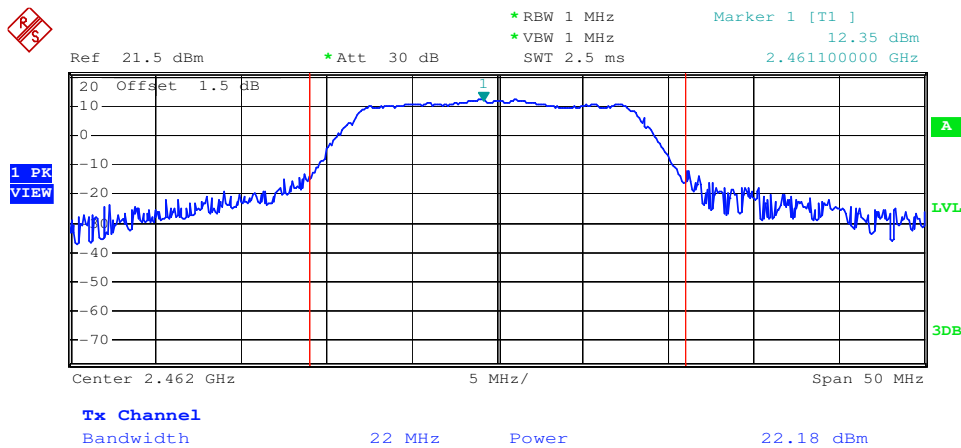
Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Middle
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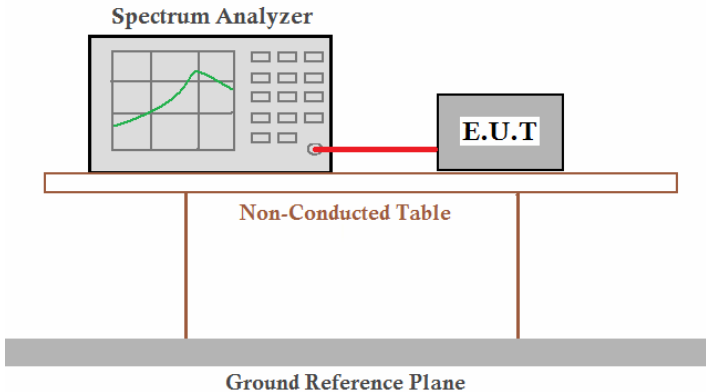


Test mode:	802.11g	Test channel:	Highest
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5.4 6dB Occupy Bandwidth

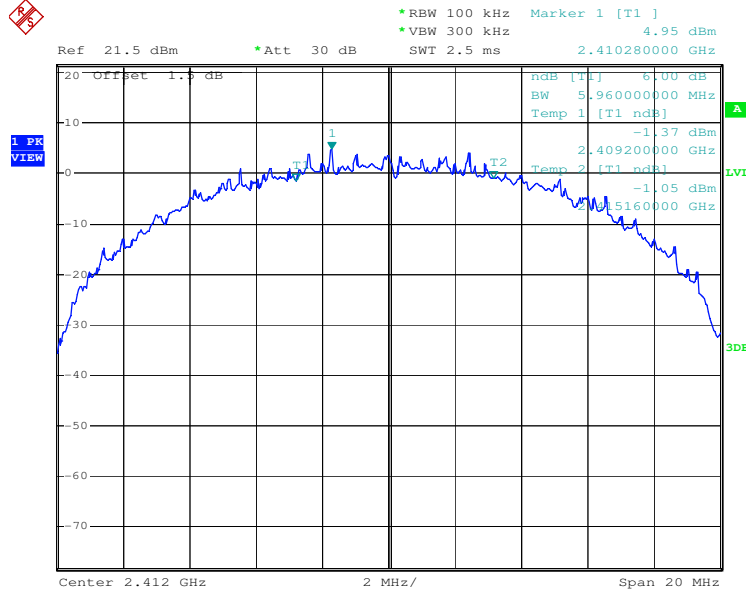
Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	>500KHz
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

Measurement Data

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	5.96	>500	Pass
Middle	5.96	>500	Pass
Highest	5.92	>500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (KHz)	Result
Lowest	15.20	>500	Pass
Middle	10.00	>500	Pass
Highest	15.16	>500	Pass

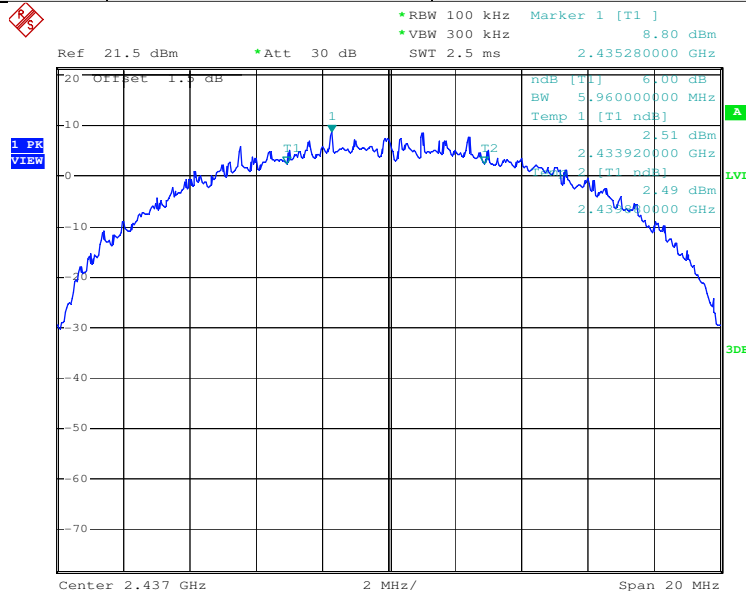
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Date: 5.NOV.2009 15:01:12

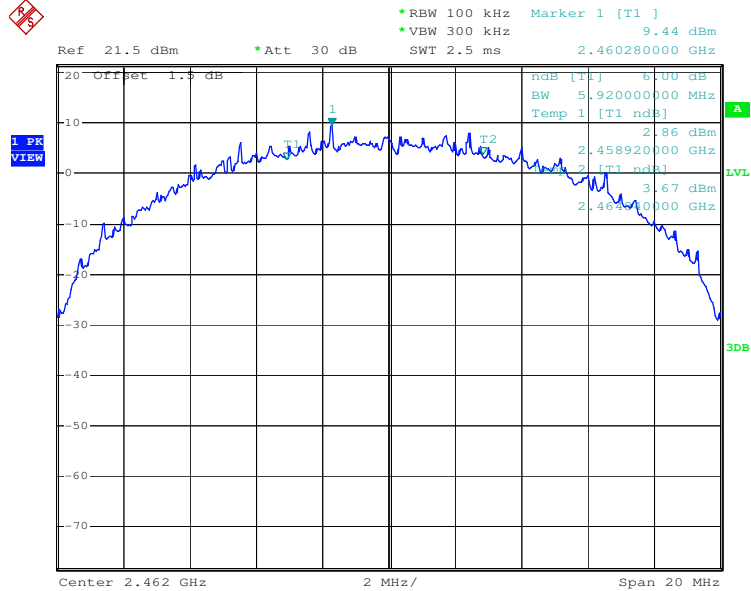
Test mode:	802.11b	Test channel:	Middle
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Date: 5.NOV.2009 15:06:38

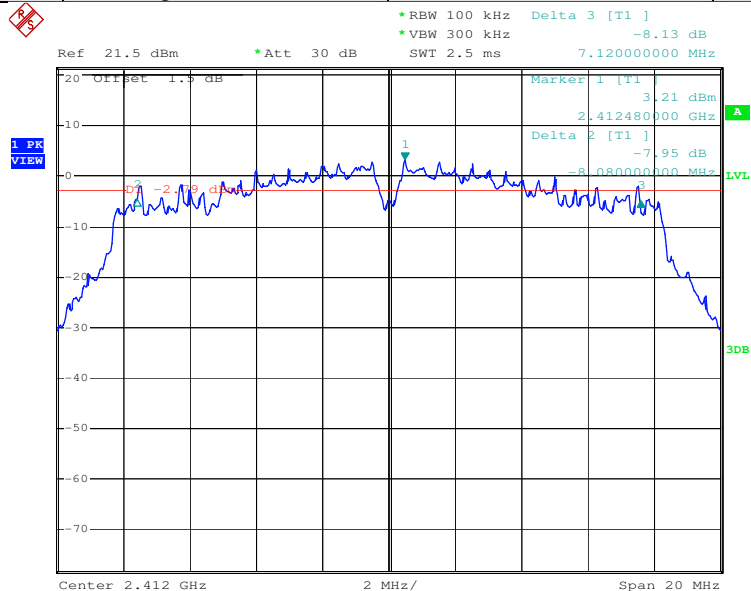


Test mode:	802.11b	Test channel:	Highest
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Date: 5.NOV.2009 15:23:14

Test mode:	802.11g	Test channel:	Lowest
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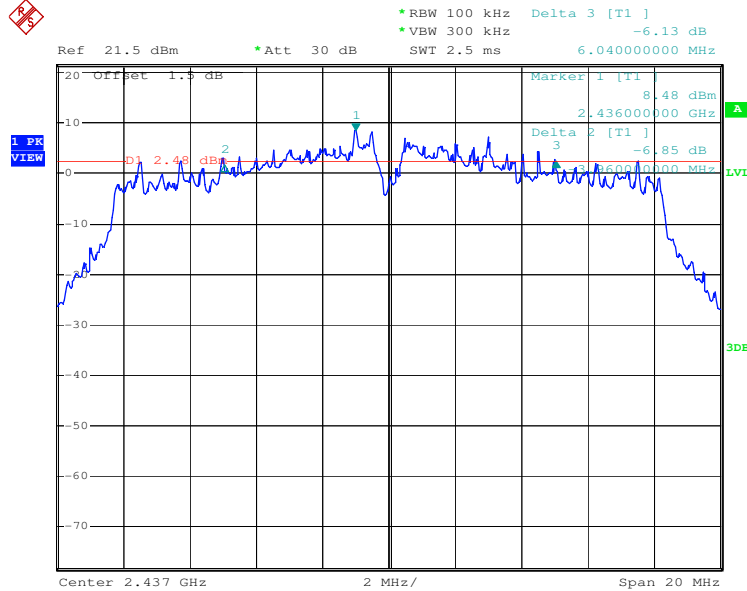


Date: 5.NOV.2009 16:22:05

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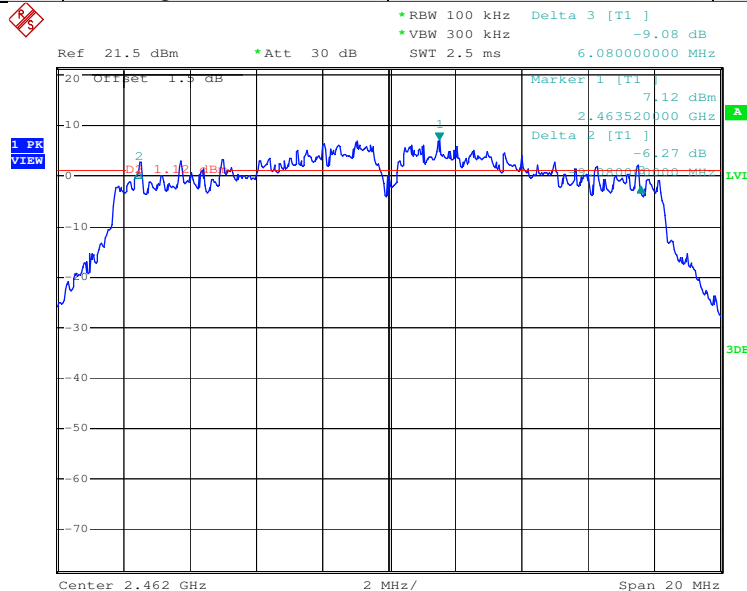


Test mode:	802.11g	Test channel:	Middle
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Date: 5.NOV.2009 16:06:33

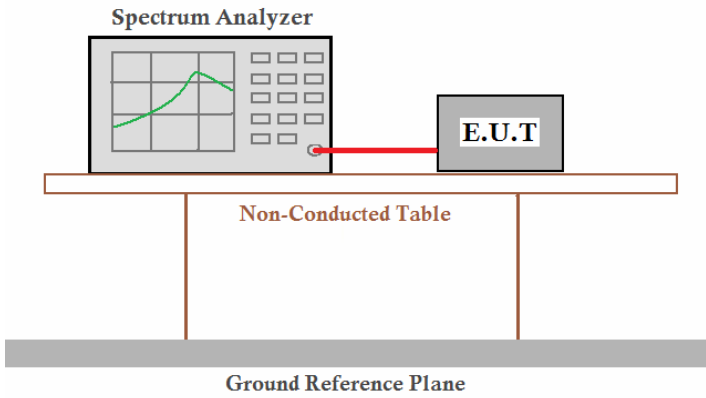
Test mode:	802.11g	Test channel:	Highest
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Date: 5.NOV.2009 15:41:17

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5.5 Power Spectral Density

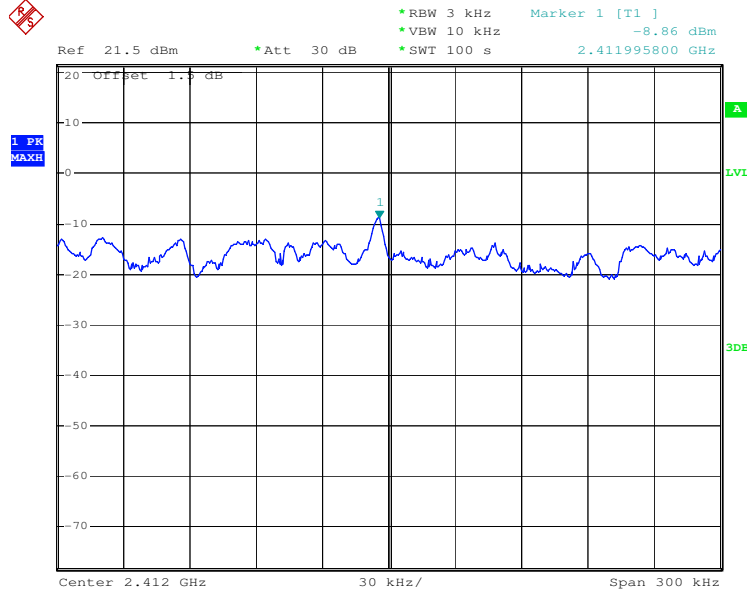
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.4:2003 and KDB558074
Limit:	<8dBm
Test setup:	 <p><i>Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

Measurement Data

802.11b mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-8.86	<8.00	Pass
Middle	-5.85	<8.00	Pass
Highest	-6.32	<8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm)	Limit (dBm)	Result
Lowest	-9.57	<8.00	Pass
Middle	-5.54	<8.00	Pass
Highest	-7.64	<8.00	Pass

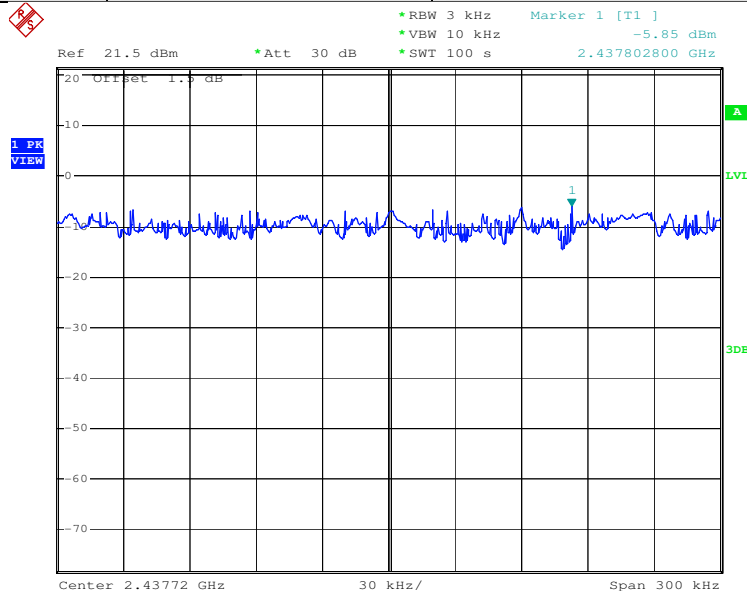
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Date: 5.NOV.2009 15:00:00

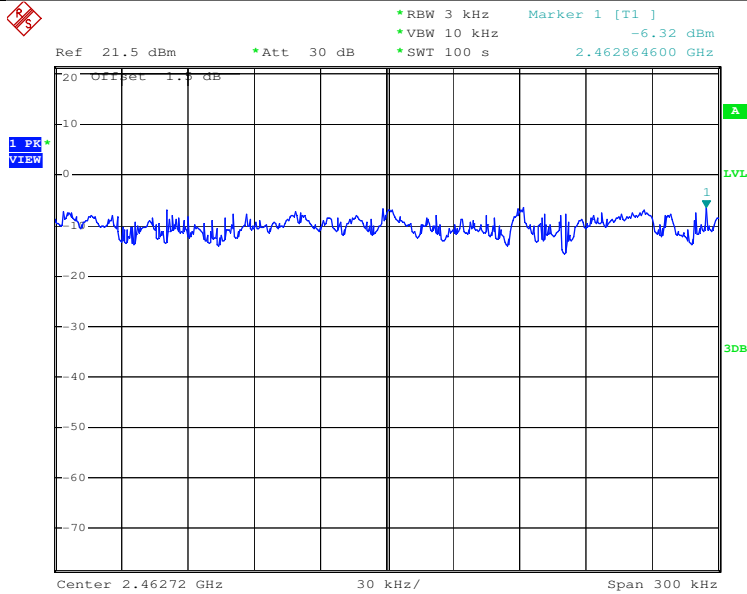
Test mode:	802.11b	Test channel:	Middle
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Date: 5.NOV.2009 15:15:12

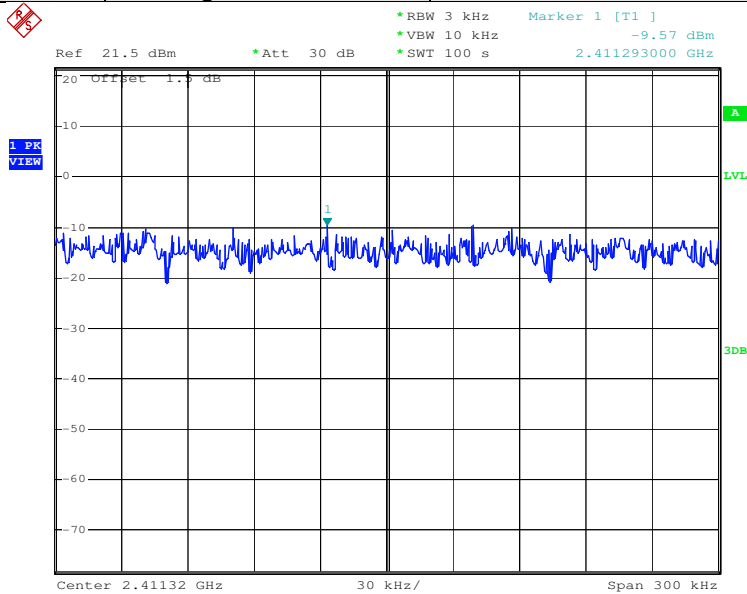


Test mode:	802.11b	Test channel:	Highest
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Date: 5.NOV.2009 15:22:12

Test mode:	802.11g	Test channel:	Lowest
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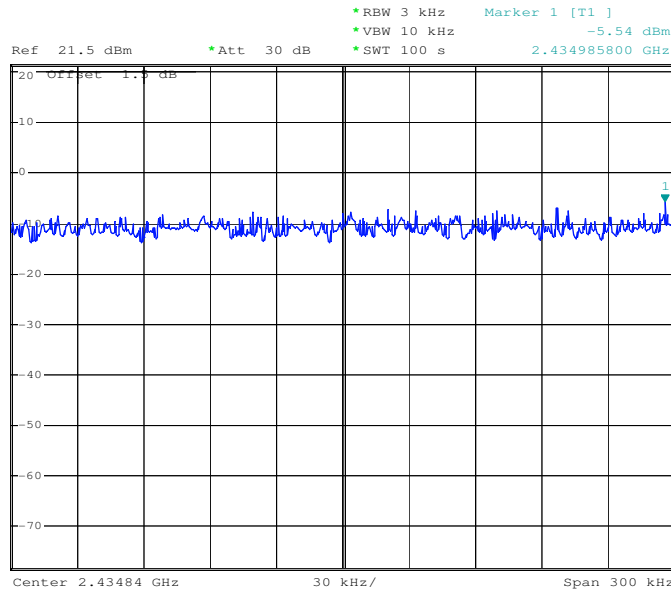


Date: 5.NOV.2009 16:17:13

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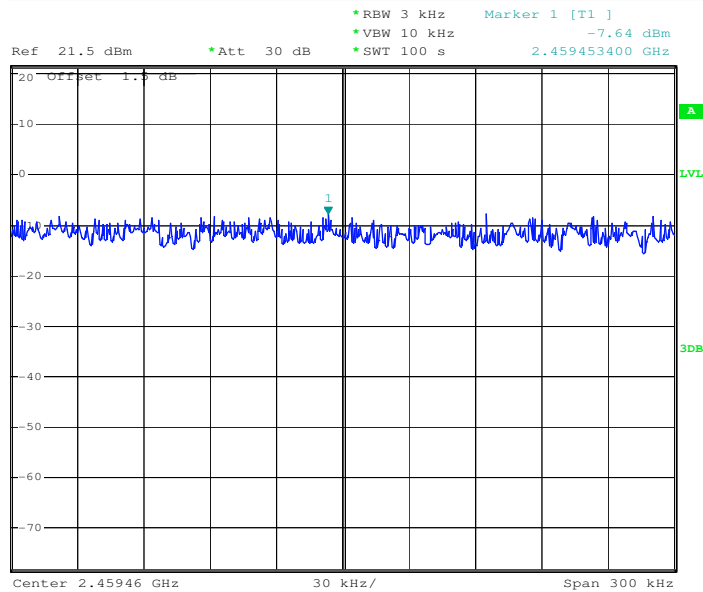


Test mode:	802.11g	Test channel:	Middle
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Date: 5.NOV.2009 16:03:57

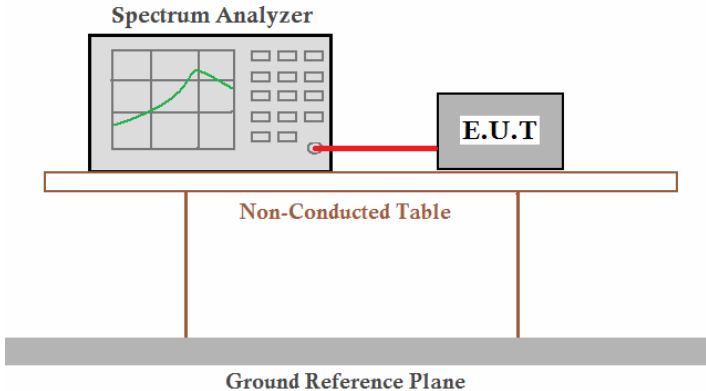
Test mode:	802.11g	Test channel:	Highest
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Date: 5.NOV.2009 15:37:01

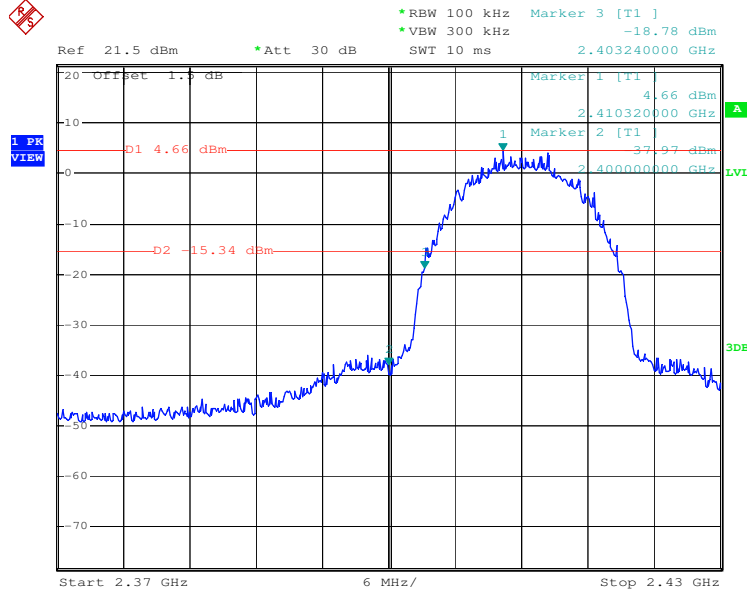
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5.6 Band Edge

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 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:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed

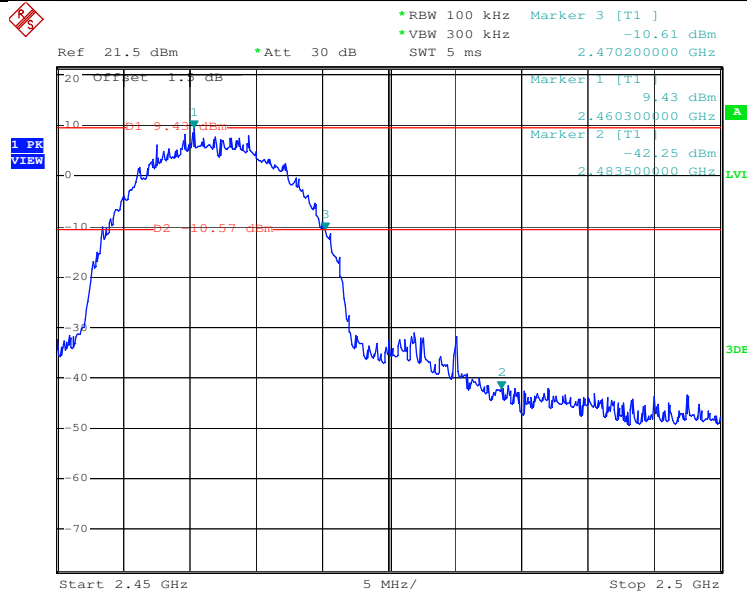
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Date: 5.NOV.2009 15:03:15

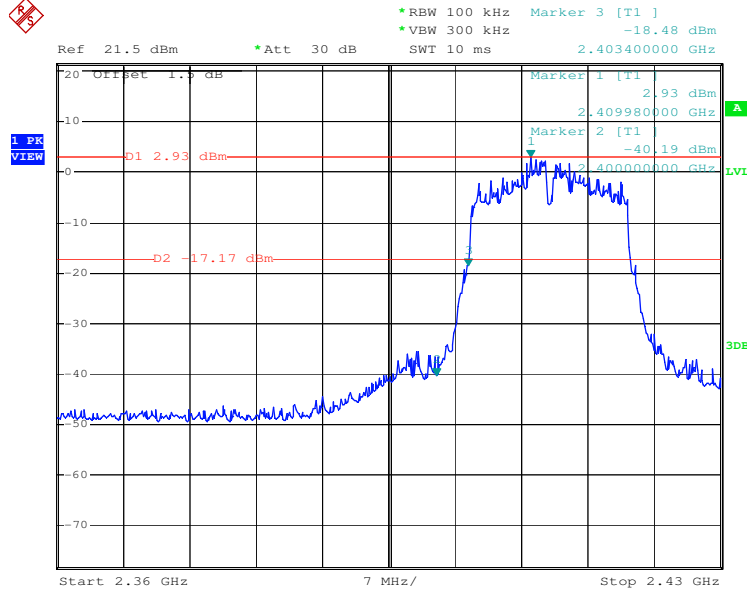
Test mode:	802.11b	Test channel:	Highest
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Date: 5.NOV.2009 15:25:32

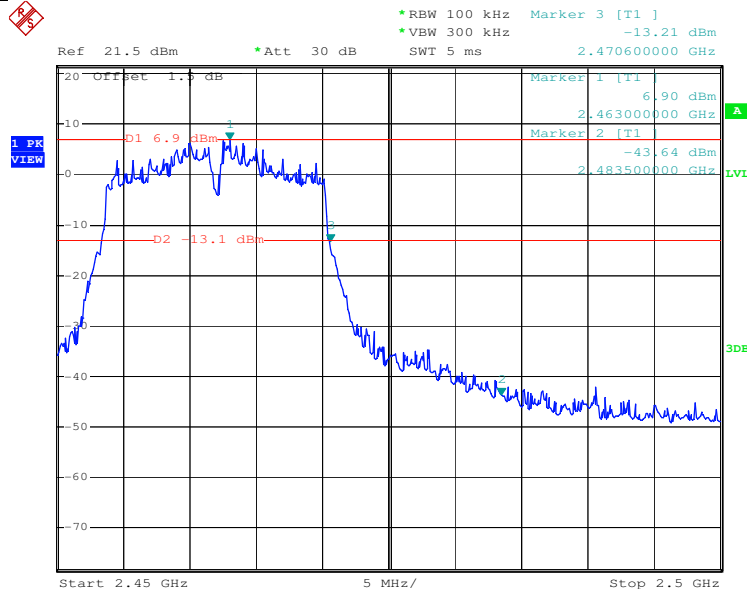
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Test mode:	802.11g	Test channel:	Lowest
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Date: 5.NOV.2009 16:24:10

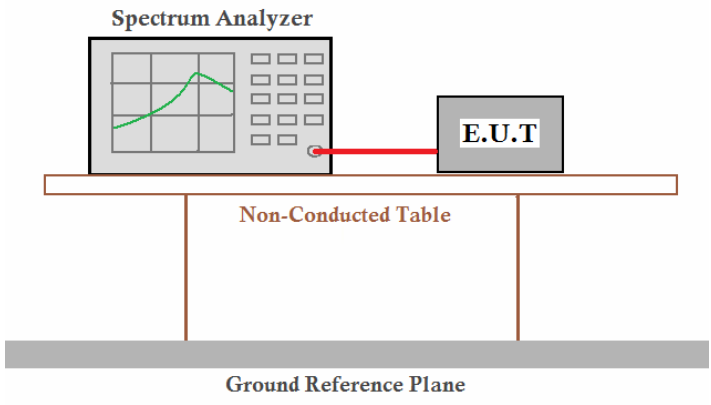
Test mode:	802.11g	Test channel:	Highest
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Date: 5.NOV.2009 15:43:46

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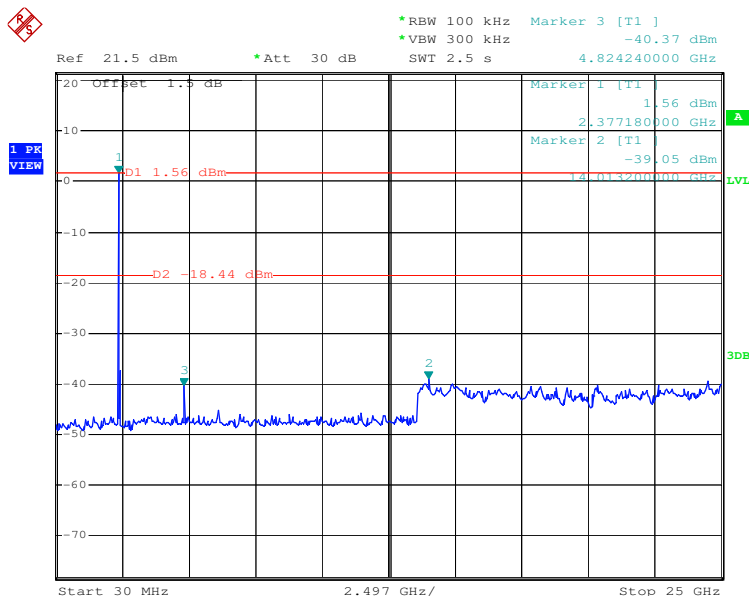
5.7 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.4:2003 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:	 <p style="text-align: center;"><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Test Instruments:	Refer to section 4.7 for details
Test results:	Passed



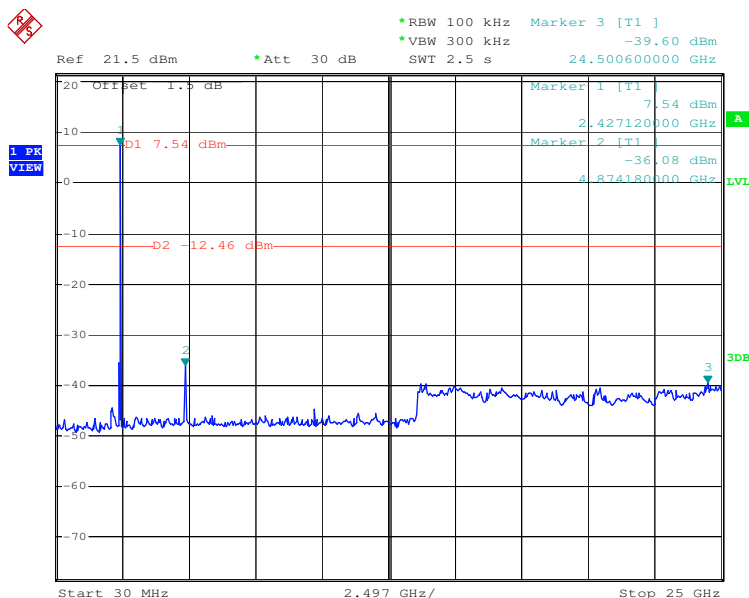
Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Date: 5.NOV.2009 15:04:35

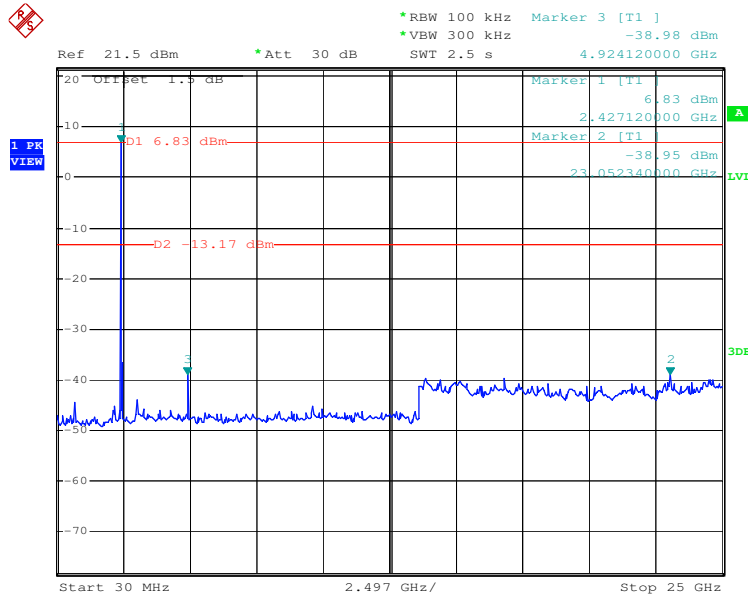
Test mode:	802.11b	Test channel:	Middle
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Date: 5.NOV.2009 15:08:53

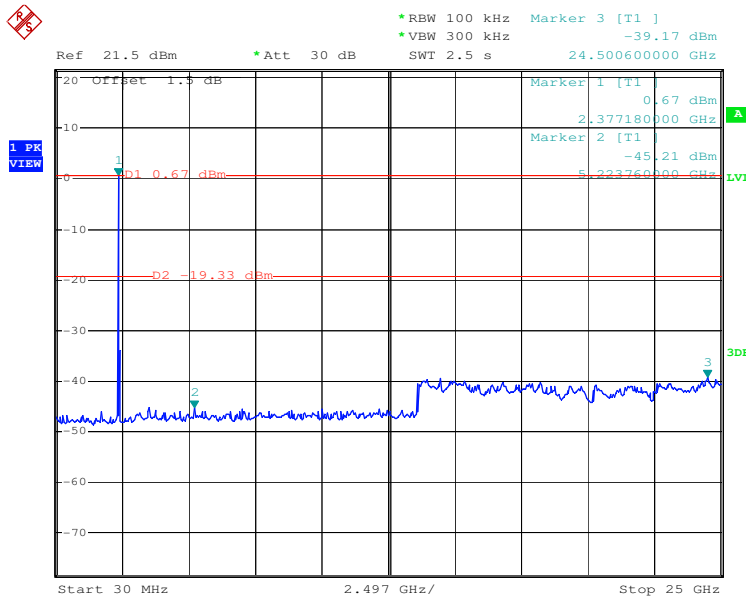
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Test mode:	802.11b	Test channel:	Highest
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Date: 5.NOV.2009 15:26:48

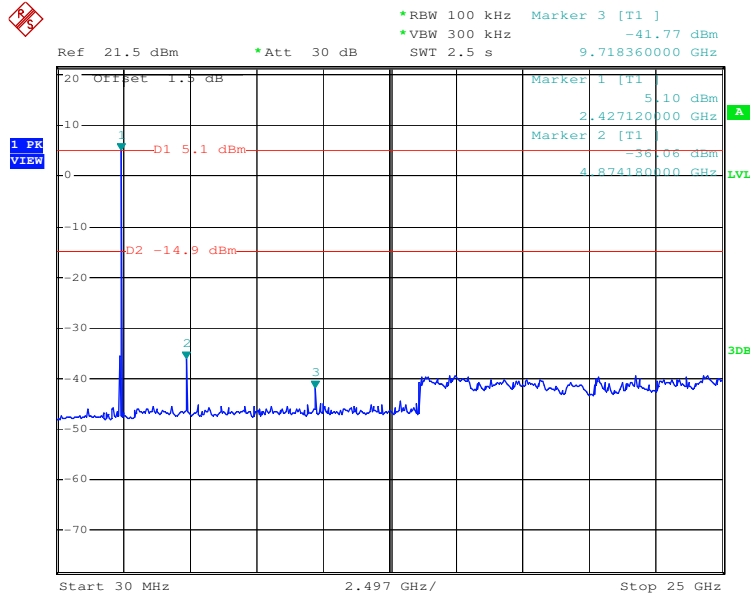
Test mode:	802.11g	Test channel:	Lowest
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Date: 5.NOV.2009 16:26:14

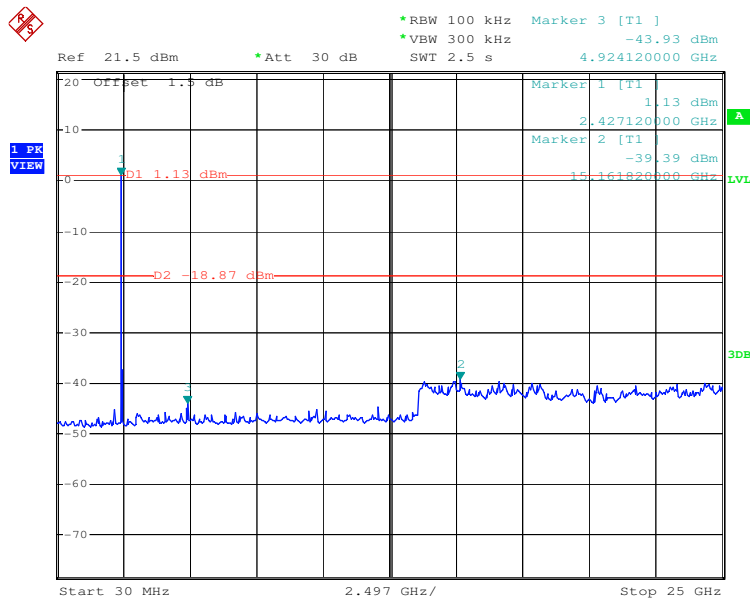
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Test mode:	802.11g	Test channel:	Middle
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Date: 5.NOV.2009 16:10:53

Test mode:	802.11g	Test channel:	Highest
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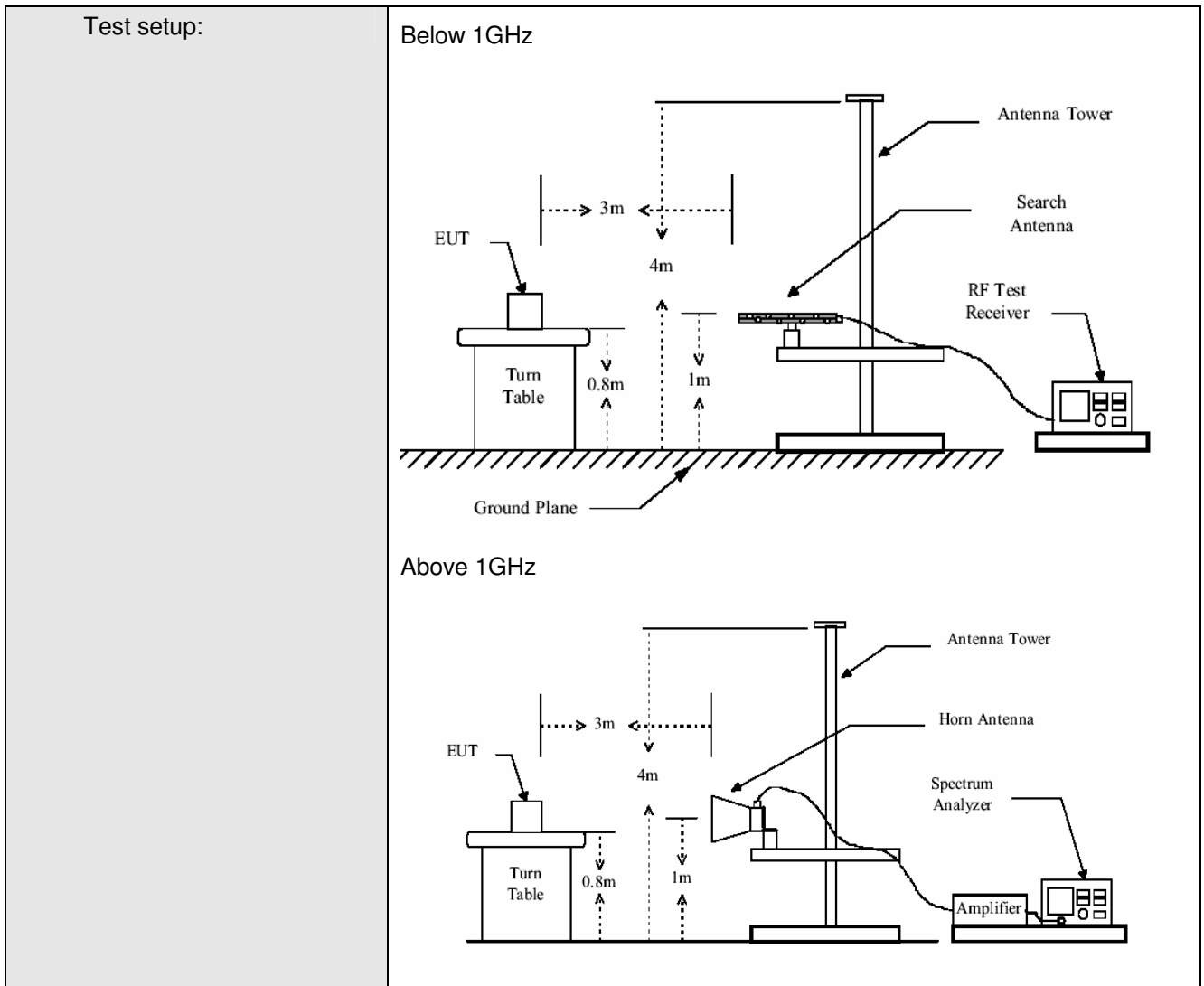


Date: 5.NOV.2009 15:45:43

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5.8 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205																				
Test Method:	ANSI C63.4: 2003																				
Test Frequency Range:	30MHz to 25GHz																				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																				
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																	
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																	
Above 1GHz	Peak	1MHz	3MHz	Peak Value																	
	Peak	1MHz	10Hz	Average Value																	
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																			
30MHz-88MHz	40.0	Quasi-peak Value																			
88MHz-216MHz	43.5	Quasi-peak Value																			
216MHz-960MHz	46.0	Quasi-peak Value																			
960MHz-1GHz	54.0	Quasi-peak Value																			
Above 1GHz	54.0	Average Value																			
	74.0	Peak Value																			
Test Procedure:	<p>The E.U.T and its simulators are placed on a turn table which is 0.8meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.</p> <p>Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4:2003 on radiated measurement.</p>																				
Test Instruments:	Refer to section 4.7 for details																				
Test mode:	Pre-scan the EUT in WiFi mode, SD card mode, internal memory mode and USB mode, then find out the worst case is WIFI mode.																				
Test results:	Passed																				



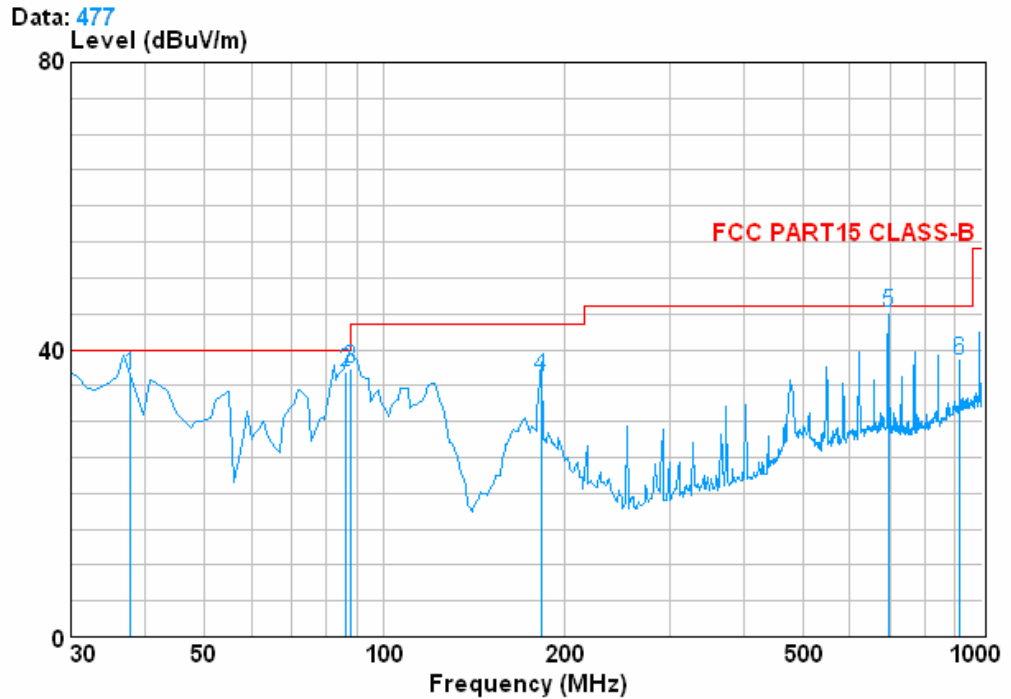
Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

5.8.1 Radiated emission below 1GHz

Test mode:	WiFi	Polarization:	Vertical
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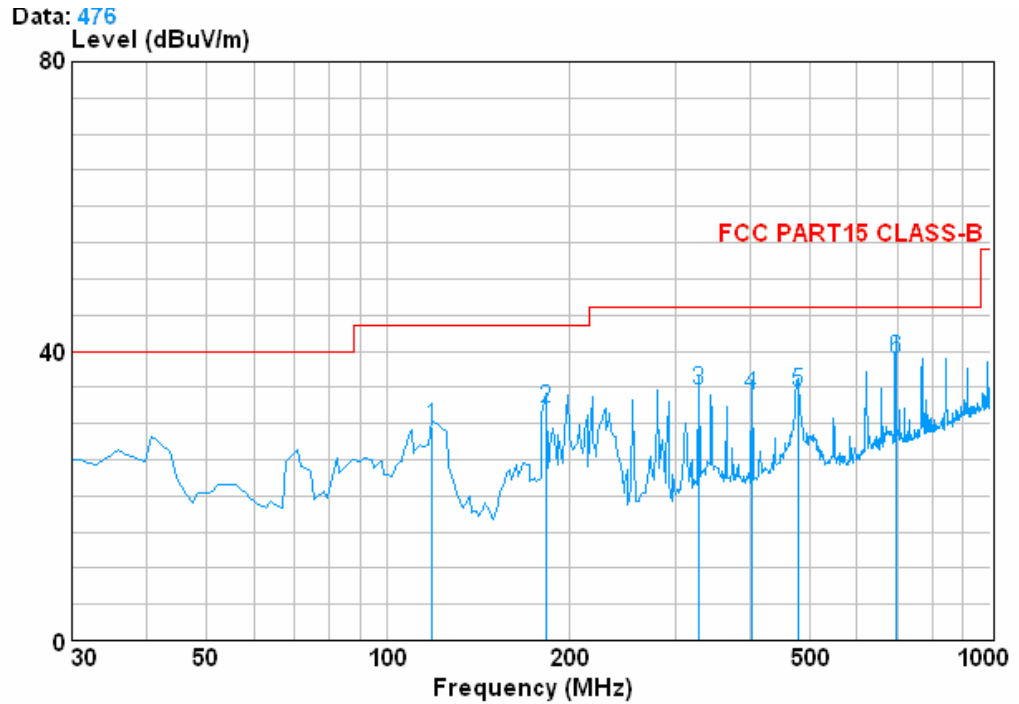
Condition : FCC PART15 CLASS-B 3m 0042673 VERTICAL
Job No. : 6166RF
Test mode: : WIFI

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 @	37.760	0.60	11.95	28.11	52.00	36.44	40.00	-3.56
2 @	86.260	1.10	8.36	27.97	55.44	36.93	40.00	-3.07
3 @	88.200	1.10	8.54	27.96	55.71	37.40	43.50	-6.10
4	183.260	1.37	9.97	27.24	52.13	36.23	43.50	-7.27
5 @	696.700	2.90	21.58	27.29	48.00	45.19	46.00	-0.81
6	916.580	3.62	23.26	26.43	38.09	38.54	46.00	-7.46

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Test mode:	WiFi	Polarization:	Horizontal
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Condition : FCC PART15 CLASS-B 3m 0042673 HORIZONTAL
Job No. : 6166RF
Test mode: : WIFI

	Cable	Antenna	Preamp	Read		Limit	Over	
	Loss	Factor	Factor	Level	Level	Line	Limit	
	Freq							
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	
1	118.270	1.25	8.02	27.70	47.94	29.51	43.50	-13.99
2	183.260	1.37	9.97	27.24	48.04	32.14	43.50	-11.36
3	327.790	1.99	14.89	26.93	44.70	34.65	46.00	-11.35
4	401.510	2.21	16.31	27.42	42.92	34.02	46.00	-11.98
5	479.110	2.52	17.80	27.65	41.61	34.28	46.00	-11.72
6 @	695.420	2.89	21.58	27.30	41.84	39.02	46.00	-6.98

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5.8.2 Transmitter emission above 1GHz

Test mode:	802.11b	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2327.750	6.02	29.76	39.75	44.26	40.29	74.00	-33.71	Vertical
2398.250	6.34	30.03	38.87	41.94	39.44	74.00	-34.56	Vertical
2400.000	6.34	30.03	38.87	43.65	41.15	74.00	-32.85	Vertical
4924.500	10.53	34.41	40.90	46.73	50.77	74.00	-23.23	Vertical
5911.500	13.07	35.70	41.96	45.62	52.43	74.00	-21.57	Vertical
8555.250	13.10	37.76	38.00	44.79	57.65	74.00	-16.35	Vertical
2327.750	6.02	29.76	39.75	43.46	39.49	74.00	-34.51	Horizontal
2398.250	6.34	30.03	38.87	40.87	38.37	74.00	-35.63	Horizontal
2400.000	6.34	30.03	38.87	44.16	41.66	74.00	-32.34	Horizontal
5676.500	12.82	35.41	42.01	46.39	52.61	74.00	-21.39	Horizontal
7756.250	14.01	37.57	39.56	45.11	57.13	74.00	-16.87	Horizontal
10341.250	14.20	38.17	36.75	42.58	58.20	74.00	-15.80	Horizontal

Test mode:	802.11b	Test channel:	Lowest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	polarization
2351.250	6.14	29.86	39.43	46.00	42.57	54.00	-11.43	Vertical
2398.250	6.34	30.03	38.87	38.95	36.45	54.00	-17.55	Vertical
2400.000	6.34	30.03	38.87	46.00	43.50	54.00	-10.50	Vertical
3044.500	7.08	31.96	39.41	41.00	40.63	54.00	-13.37	Vertical
6792.750	13.47	36.85	40.18	31.62	41.76	54.00	-12.24	Vertical
8884.250	13.30	37.79	37.31	29.86	43.64	54.00	-10.36	Vertical
2339.500	6.08	29.81	39.59	46.16	42.46	54.00	-11.54	Horizontal
2398.250	6.34	30.03	38.87	39.08	36.58	54.00	-17.42	Horizontal
2400.000	6.34	30.03	38.87	41.11	38.61	54.00	-15.39	Horizontal
4489.750	8.86	33.83	39.62	31.18	34.25	54.00	-19.75	Horizontal
6945.500	13.69	37.05	40.86	31.44	41.32	54.00	-12.68	Horizontal
9095.750	13.38	37.83	38.00	29.43	42.64	54.00	-11.36	Horizontal

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Test mode:	802.11b	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2339.500	6.08	29.81	39.59	43.08	39.38	74.00	-34.62	Vertical
3138.500	7.31	32.09	39.71	45.58	45.27	74.00	-28.73	Vertical
4877.500	10.36	34.34	39.89	45.02	49.83	74.00	-24.17	Vertical
6240.500	14.45	36.14	41.65	46.91	55.85	74.00	-18.15	Vertical
7791.500	14.18	37.58	39.61	44.82	56.97	74.00	-17.03	Vertical
10623.250	14.91	38.23	36.65	41.28	57.77	74.00	-16.23	Vertical
2327.750	6.02	29.76	39.75	49.94	45.97	74.00	-28.03	Horizontal
3855.250	7.72	32.94	40.04	45.20	45.82	74.00	-28.18	Horizontal
5676.500	12.82	35.41	42.01	45.95	52.17	74.00	-21.83	Horizontal
7850.250	13.97	37.62	39.74	45.81	57.66	74.00	-16.34	Horizontal
8872.500	13.24	37.79	37.36	43.51	57.18	74.00	-16.82	Horizontal
10752.500	14.89	38.25	36.99	41.76	57.91	74.00	-16.09	Horizontal

Test mode:	802.11b	Test channel:	Middle	Remark:	Average
------------	---------	---------------	--------	---------	---------

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	polarization
2398.250	6.34	30.03	38.87	41.03	38.53	54.00	-15.47	Vertical
3185.500	7.08	32.15	39.48	45.90	45.65	54.00	-8.35	Vertical
6381.500	14.42	36.32	41.50	31.73	40.97	54.00	-13.03	Vertical
6792.750	13.47	36.85	40.18	31.60	41.74	54.00	-12.26	Vertical
7803.250	14.34	37.60	39.65	31.29	43.58	54.00	-10.42	Vertical
10564.500	14.80	38.22	36.49	27.89	44.42	54.00	-9.58	Vertical
2339.500	6.08	29.81	39.59	46.00	42.30	54.00	-11.70	Horizontal
3079.750	7.39	32.01	39.77	40.82	40.45	54.00	-13.55	Horizontal
5147.750	11.27	34.71	41.19	30.79	35.58	54.00	-18.42	Horizontal
6358.000	14.42	36.29	41.52	31.75	40.94	54.00	-13.06	Horizontal
7791.500	14.18	37.58	39.61	31.34	43.49	54.00	-10.51	Horizontal
10693.750	14.90	38.24	36.82	27.85	44.17	54.00	-9.83	Horizontal

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Test mode:	802.11b	Test channel:	Highest	Remark:	Peak
------------	---------	---------------	---------	---------	------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2327.750	6.02	29.76	39.75	43.30	39.33	74.00	-34.67	Vertical
2483.500	6.22	30.32	39.53	58.02	55.03	74.00	-18.97	Vertical
2492.250	5.99	30.35	39.34	43.35	40.35	74.00	-33.65	Vertical
4889.250	10.57	34.35	40.33	46.99	51.58	74.00	-22.42	Vertical
6240.500	14.45	36.14	41.65	46.79	55.73	74.00	-18.27	Vertical
10670.250	14.90	38.23	36.74	42.34	58.73	74.00	-15.27	Vertical
2339.500	6.08	29.81	39.59	46.43	42.73	74.00	-31.27	Horizontal
2483.500	6.22	30.32	39.53	47.01	44.02	74.00	-29.98	Horizontal
2492.250	5.99	30.35	39.34	43.76	40.76	74.00	-33.24	Horizontal
5265.250	11.79	34.87	41.18	45.36	50.84	74.00	-23.16	Horizontal
7897.250	13.60	37.65	39.82	46.58	58.01	74.00	-15.99	Horizontal
10576.250	14.80	38.22	36.49	41.43	57.96	74.00	-16.04	Horizontal

Test mode:	802.11b	Test channel:	Highest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	polarization
2327.750	6.02	29.76	39.75	46.08	42.11	54.00	-11.89	Vertical
2483.500	6.22	30.32	39.53	43.70	40.71	54.00	-13.29	Vertical
2492.250	5.99	30.35	39.34	40.74	37.74	54.00	-16.26	Vertical
6792.750	13.47	36.85	40.18	31.60	41.74	54.00	-12.26	Vertical
7803.250	14.34	37.60	39.65	31.27	43.56	54.00	-10.44	Vertical
12174.250	18.03	39.21	39.27	27.66	45.63	54.00	-8.37	Vertical
2351.250	6.14	29.86	39.43	45.90	42.47	54.00	-11.53	Horizontal
2483.500	6.22	30.32	39.53	48.68	45.69	54.00	-8.31	Horizontal
2492.250	5.99	30.35	39.34	40.73	37.73	54.00	-16.27	Horizontal
6369.750	14.42	36.32	41.50	31.71	40.95	54.00	-13.05	Horizontal
7803.250	14.34	37.60	39.65	31.24	43.53	54.00	-10.47	Horizontal
12174.250	18.03	39.21	39.27	27.69	45.66	54.00	-8.34	Horizontal

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Test mode:	802.11g	Test channel:	Lowest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2327.750	6.02	29.76	39.75	43.89	39.92	74.00	-34.08	Vertical
2398.250	6.34	30.03	38.87	42.84	40.34	74.00	-33.66	Vertical
2400.000	6.34	30.03	38.87	43.57	41.07	74.00	-32.93	Vertical
7791.500	14.18	37.58	39.61	45.91	58.06	74.00	-15.94	Vertical
9530.500	13.59	37.96	37.34	43.59	57.80	74.00	-16.20	Vertical
12021.500	16.45	39.10	39.09	42.75	59.21	74.00	-14.79	Vertical
2316.000	6.00	29.74	39.83	44.02	39.93	74.00	-34.07	Horizontal
2398.250	6.34	30.03	38.87	48.90	46.40	74.00	-27.60	Horizontal
2400.000	6.34	30.03	38.87	50.95	48.45	74.00	-25.55	Horizontal
5265.250	11.79	34.87	41.18	45.40	50.88	74.00	-23.12	Horizontal
7791.500	14.18	37.58	39.61	45.29	57.44	74.00	-16.56	Horizontal
10517.500	14.58	38.20	36.32	41.79	58.25	74.00	-15.75	Horizontal

Test mode:	802.11g	Test channel:	Lowest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	polarization
2351.250	6.14	29.86	39.43	30.91	27.48	54.00	-26.52	Vertical
2398.250	6.34	30.03	38.87	29.88	27.38	54.00	-26.62	Vertical
2400.000	6.34	30.03	38.87	30.92	28.42	54.00	-25.58	Vertical
7803.250	14.34	37.60	39.65	31.25	43.54	54.00	-10.46	Vertical
8884.250	13.30	37.79	37.31	29.81	43.59	54.00	-10.41	Vertical
12174.250	18.03	39.21	39.27	27.66	45.63	54.00	-8.37	Vertical
2327.750	6.02	29.76	39.75	46.02	42.05	54.00	-11.95	Horizontal
2398.250	6.34	30.03	38.87	44.85	42.35	54.00	-11.65	Horizontal
2400.000	6.34	30.03	38.87	45.89	43.39	54.00	-10.61	Horizontal
6181.750	14.35	36.05	41.73	31.77	40.44	54.00	-13.56	Horizontal
7791.500	14.18	37.58	39.61	31.30	43.45	54.00	-10.55	Horizontal
10693.750	14.90	38.24	36.82	27.82	44.14	54.00	-9.86	Horizontal

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Test mode:	802.11g	Test channel:	Middle	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2327.750	6.02	29.76	39.75	49.36	45.39	74.00	-28.61	Vertical
3150.250	7.27	32.10	39.67	45.00	44.70	74.00	-29.30	Vertical
5218.250	11.74	34.81	41.19	45.67	51.03	74.00	-22.97	Vertical
6757.500	13.41	36.81	40.34	45.63	55.51	74.00	-18.49	Vertical
7650.500	13.19	37.50	39.53	46.37	57.53	74.00	-16.47	Vertical
10517.500	14.58	38.20	36.32	41.69	58.15	74.00	-15.85	Vertical
2327.750	6.02	29.76	39.75	44.37	40.40	74.00	-33.60	Horizontal
2715.500	6.23	31.07	39.03	45.35	43.62	74.00	-30.38	Horizontal
3925.750	7.94	33.02	40.03	45.06	45.99	74.00	-28.01	Horizontal
6052.500	13.51	35.87	41.84	46.14	53.68	74.00	-20.32	Horizontal
7756.250	14.01	37.57	39.56	45.02	57.04	74.00	-16.96	Horizontal
10623.250	14.91	38.23	36.65	41.15	57.64	74.00	-16.36	Horizontal

Test mode:	802.11g	Test channel:	Middle	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization
2351.250	6.14	29.86	39.43	50.93	47.50	54.00	-6.50	Vertical
3573.250	8.21	32.63	40.68	45.89	46.05	54.00	-7.95	Vertical
6205.250	14.46	36.09	41.69	31.76	40.62	54.00	-13.38	Vertical
7826.750	14.16	37.61	39.69	31.22	43.30	54.00	-10.70	Vertical
10541.000	14.69	38.21	36.40	27.85	44.35	54.00	-9.65	Vertical
12315.250	17.71	39.30	39.41	27.66	45.26	54.00	-8.74	Vertical
2351.250	6.14	29.86	39.43	45.97	42.54	54.00	-11.46	Horizontal
3032.750	7.00	31.95	39.32	40.95	40.58	54.00	-13.42	Horizontal
4865.750	9.68	34.32	40.35	41.58	45.23	54.00	-8.77	Horizontal
6287.500	14.44	36.19	41.61	31.80	40.82	54.00	-13.18	Horizontal
7744.500	13.85	37.56	39.52	31.24	43.13	54.00	-10.87	Horizontal
10623.250	14.91	38.23	36.65	27.81	44.30	54.00	-9.70	Horizontal

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Test mode:	802.11g	Test channel:	Highest	Remark:	Peak
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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2327.750	6.02	29.76	39.75	43.43	39.46	74.00	-34.54	Vertical
2483.500	6.22	30.32	39.53	56.22	53.23	74.00	-20.77	Vertical
2492.250	5.99	30.35	39.34	43.13	40.13	74.00	-33.87	Vertical
4889.250	10.57	34.35	40.33	48.90	53.49	74.00	-20.51	Vertical
7368.500	12.76	37.33	40.21	47.49	57.37	74.00	-16.63	Vertical
12174.250	18.03	39.21	39.27	42.16	60.13	74.00	-13.87	Vertical
2327.750	6.02	29.76	39.75	43.02	39.05	74.00	-34.95	Horizontal
2483.500	6.22	30.32	39.53	54.83	51.84	74.00	-22.16	Horizontal
2492.250	5.99	30.35	39.34	44.01	41.01	74.00	-32.99	Horizontal
6205.250	14.46	36.09	41.69	45.27	54.13	74.00	-19.87	Horizontal
8719.750	13.10	37.77	37.68	42.50	55.69	74.00	-18.31	Horizontal
12139.000	17.71	39.19	39.23	39.97	57.64	74.00	-16.36	Horizontal

Test mode:	802.11g	Test channel:	Highest	Remark:	Average
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Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Over limit	Polarization
2327.750	6.02	29.76	39.75	46.03	42.06	54.00	-11.94	Vertical
2483.500	6.22	30.32	39.53	44.45	41.46	54.00	-12.54	Vertical
2492.250	5.99	30.35	39.34	46.43	43.43	54.00	-10.57	Vertical
6334.500	14.43	36.27	41.55	31.77	40.92	54.00	-13.08	Vertical
7991.250	12.87	37.70	40.00	30.98	41.55	54.00	-12.45	Vertical
10505.750	14.58	38.20	36.32	27.86	44.32	54.00	-9.68	Vertical
2327.750	6.02	29.76	39.75	51.02	47.05	54.00	-6.95	Horizontal
2483.500	6.22	30.32	39.53	48.66	45.67	54.00	-8.33	Horizontal
2492.250	5.99	30.35	39.34	40.70	47.70	54.00	-16.30	Horizontal
6792.750	13.47	36.85	40.18	31.57	41.71	54.00	-12.29	Horizontal
7850.250	13.97	37.62	39.74	31.13	42.98	54.00	-11.02	Horizontal
10693.750	14.90	38.24	36.82	27.86	44.18	54.00	-9.82	Horizontal

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