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Report No.: SZEMO081105729RFF
Page: 1 of 58
FCC ID: VSAPX6000I00001

TEST REPORT

Application No: SZEMO081105729RF
Applicant/ Manufacturer: King Champion Industries Ltd.
Address of Applicant: Unit 1520, Phase 1 Metro Centre, 32 Lam Hing Street, Kowloon Bay, Kowloon, Hong Kong
FCC ID: VSAPX6000I00001
Fundamental Carrier Frequency : 2.412GHz to 2.462GHz
Equipment Under Test (EUT):
Name: Internet Radio
Model: PX-60i
Product Rated Voltage: 100V-240V
Standards: FCC PART 15 Subpart C: 2008
Date of Receipt: 20 November 2008
Date of Test: 20 November 2008 to 06 January 2009
Date of Issue: 07 January 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

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2 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Conducted Emissions	FCC PART 15:2008	Section 15.107 / 15.207	PASS
Radiated Emission	FCC PART 15:2008	Section 15.205/15.209	PASS*
Maximum Peak Output Power	FCC PART 15 :2008	Section 15.247 (b)	PASS
Occupied Bandwidth	FCC PART 15 :2008	Section 15.247 (a2)	PASS
Edges Measurement	FCC PART 15 2008	Section 15.247(d)	PASS
Power Spectral Density Measurement	FCC PART 15 :2008	Section 15.247 (e)	PASS
Antenna requirement.	FCC PART 15:2008	Section 15.247 (b)	PASS

Remark:

The EUT passed the Radiated Emission test after retest.

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3 Contents

Page

1	COVER PAGE	1
2	TEST SUMMARY	2
3	CONTENTS	3
4	GENERAL INFORMATION	4
4.1	GENERAL DESCRIPTION OF E.U.T.	4
4.2	TEST LOCATION	5
4.3	OTHER INFORMATION REQUESTED BY THE CUSTOMER	5
5	TEST RESULTS	6
5.1	TEST INSTRUMENTS	6
5.2	E.U.T. OPERATION	7
5.3	TEST PROCEDURE & MEASUREMENT DATA	8
5.3.1	<i>Conducted Emissions</i>	8
5.3.2	<i>Radiated Emissions</i>	15
5.3.2.1	<i>Radiated emission below 1GHz</i>	17
5.3.2.2	<i>Transmitter emission above 1GHz</i>	19
5.3.3	<i>Occupied Bandwidth</i>	26
5.3.4	<i>Maximum Peak Output Power</i>	30
5.3.5	<i>Band Edges Measurement</i>	33
5.3.6	<i>Power Spectral Density Measurement</i>	38
5.3.7	<i>Antenna Requirement</i>	43
5.3.7.1	<i>Standard requirement</i>	43
5.3.7.2	<i>EUT Antenna</i>	43

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4 General Information

4.1 General Description of E.U.T.

Name:	Internet Radio
Item No.:	PX-60i
Frequency Range	802.11b/g:2412-2462MHz
Transfer Rate	802.11b mode: 1/2/5.5/11Mbps 802.11g mode 6/9/12/18/24/36/48/54Mbps
Number of Channel	11 channels (802.11b & 802.11g)
Antenna Type;	Integral
Type of Modulation	802.11b DBPSK(1MHz), DQPSK(2MHz), CCK(5.5/11MHz), 802.11g OFDM(6MHz-54MHz)

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Verify the Frequency and Channel

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

Note:

1. Section 15.31(m): Measurements on intentional radiators or receivers shall be performed at three frequencies for operating frequency range over 10 MHz. The locations of these frequencies one near the top, one near the middle and one near the bottom.
2. So all the items as followed in testing report are need to test these three frequencies with 802.11b and 802.11g modulation type respectively:

Top: Channel 1: 2412MHz.

Middle: Channel 6: 2437MHz.

Bottom: Channel 11: 2462 MHz.

4.2 Test Location

No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663
Telephone: +86 (0) 20 8215 5555 Fax: +86 (0) 20 8207 5059

4.3 Other Information Requested by the Customer

None

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5 Test Results

5.1 Test Instruments

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	16-06-2007	15-06-2009
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2008	11-12-2009
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	18-06-2008	17-06-2009
5	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2008	11-08-2009
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	18-06-2008	17-06-2009
7	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0005	12-08-2008	11-08-2009
8	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	12-08-2008	11-08-2009
9	Pre-amplifier (1-18GHz)	Rohde & Schwarz	AFS42-00101 800-25-S-42	SEL0081	18-06-2008	17-06-2009
10	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33- 18002650-30- 8P-44	SEL0080	18-06-2008	17-06-2009
11	Band filter	Amindeon	82346	SEL0094	18-06-2008	17-06-2009
12	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2008	14-06-2009

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	18-06-2008	17-06-2009
3	ISN	Rohde & Schwarz	ENY 22 1109	EMC0114	18-06-2008	17-06-2009
4	ISN	Rohde & Schwarz	ENY 41 1110	EMC0115	18-06-2008	17-06-2009
5	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	18-06-2008	17-06-2009
6	Coaxial Cable	SGS	N/A	SEL0024	18-06-2008	17-06-2009

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5.2 E.U.T. Operation

EUT power supply: Input: AC 100-240V 50/60Hz 0.45A MAX
Output: DC 10.8V 1.5A

Operating Environment

Temperature: 24 °C

Humidity: 56 % RH

Atmospheric Pressure: 1010 mbar

Operation:

Test the EUT as a product which Direct Sequence Spread Spectrum. The total channels are 11 channels (1 to 11 channels), the fundamental frequencies are from 2.412GHz to 2.462GHz. The test procedure provided by applicant enabled the EUT to transmit and receive data at lowest (Channel 1: 2.412GHz), middle (Channel 6: 2.437GHz), and highest channel (Channel 11: 2.462GHz), frequencies individually. Pre-test the entire frequencies mode and their power status, compliance test in the worse case: Channel 1, Channel 6, Channel 11

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps and 802.11g 6/9/12/18/24/36/48/54Mbps) and antenna ports (if EUT with antenna diversity architecture).

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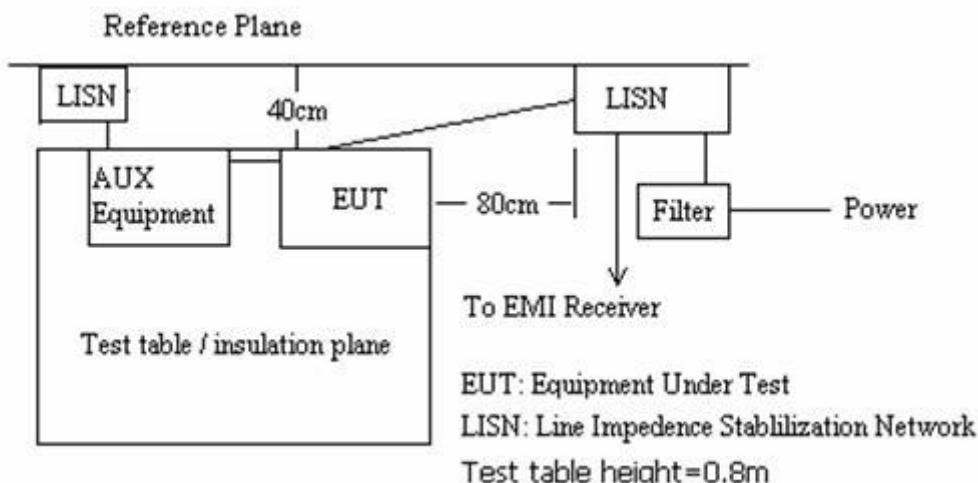
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5.3 Test Procedure & Measurement Data

5.3.1 Conducted Emissions

Test Requirement: FCC Part15 C Section 15.207
Test Method: ANSI C63.4:2003
Frequency Range: 150KHz to 30MHz
Class / Severity: Class B
Detector: RBW=9KHz VBW=30KHz
Operating Environment:
Temperature: 24 °C Humidity: 52 % RH Atmospheric Pressure: 1010 Mbar
EUT Operation: Test in normal mode. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.
Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Plan View of Test Setup



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5.3.1.1 Measurement Data

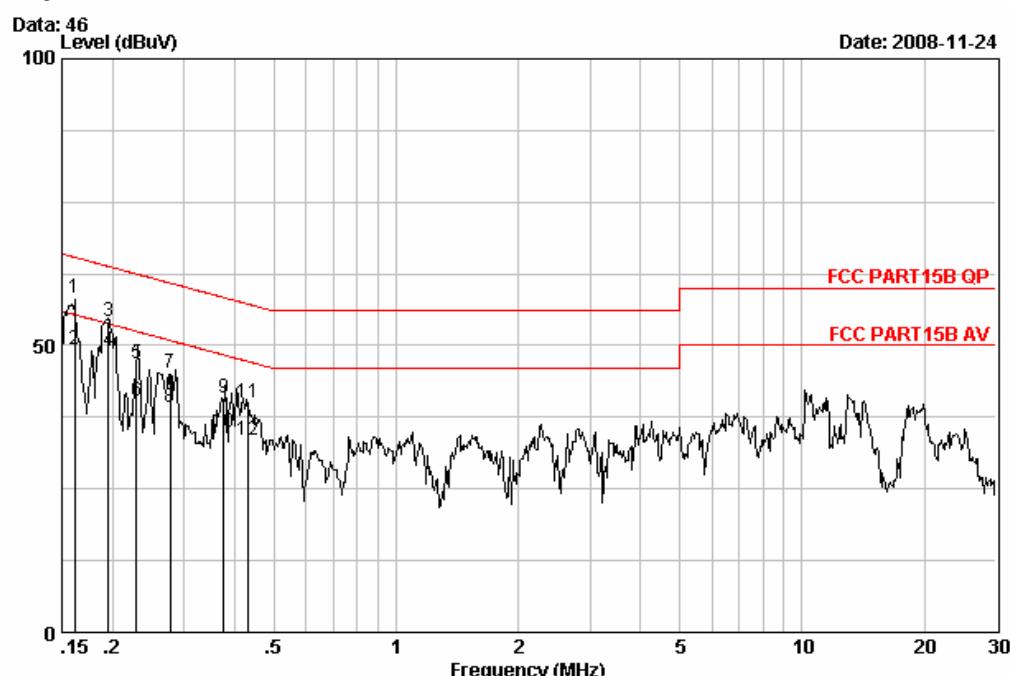
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected. For EUT communicating with worst case mode.

The following Quasi-Peak and Average measurements were performed on the EUT:

AUX in mode

Live Line



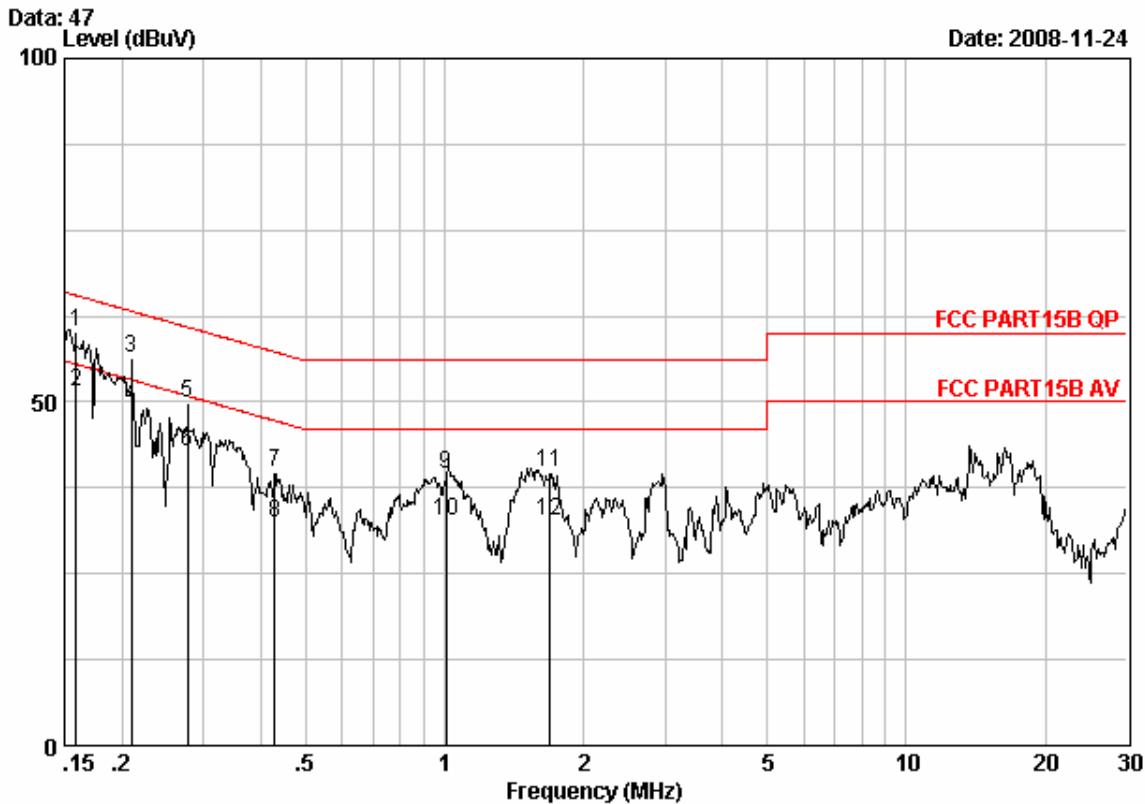
Site : Shielding Room
 Condition : FCC PART15B QP CE 11 LINE
 EUT : Internet Radio
 Job No. : 5729RF

Test Mode : AUX IN

Freq	Cable	LISN	Read	Limit	Over	Over	
	Loss	Factor	Level				Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.16155	0.04	0.00	58.40	58.44	65.38	-6.94 QP
2	0.16155	0.04	0.00	49.23	49.27	55.38	-6.11 Average
3	0.19550	0.04	0.00	54.20	54.24	63.80	-9.56 QP
4	0.19550	0.04	0.00	49.10	49.14	53.80	-4.66 Average
5	0.22918	0.04	0.00	46.85	46.89	62.48	-15.59 QP
6	0.22918	0.04	0.00	40.30	40.34	52.48	-12.14 Average
7	0.27734	0.05	0.00	45.10	45.15	60.90	-15.75 QP
8	0.27734	0.05	0.00	39.30	39.35	50.90	-11.55 Average
9	0.37512	0.05	0.00	40.70	40.75	58.39	-17.63 QP
10	0.37512	0.05	0.00	34.90	34.95	48.39	-13.43 Average
11	0.43281	0.06	0.00	40.10	40.16	57.20	-17.04 QP
12	0.43281	0.06	-0.04	33.52	33.53	47.20	-13.66 Average

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Neutral Line


Site : Shielding Room
Condition : FCC PART15B QP CE 11 NEUTRAL
EUT : Internet Radio
Job No. : 5729RF
Test Mode : AUX IN

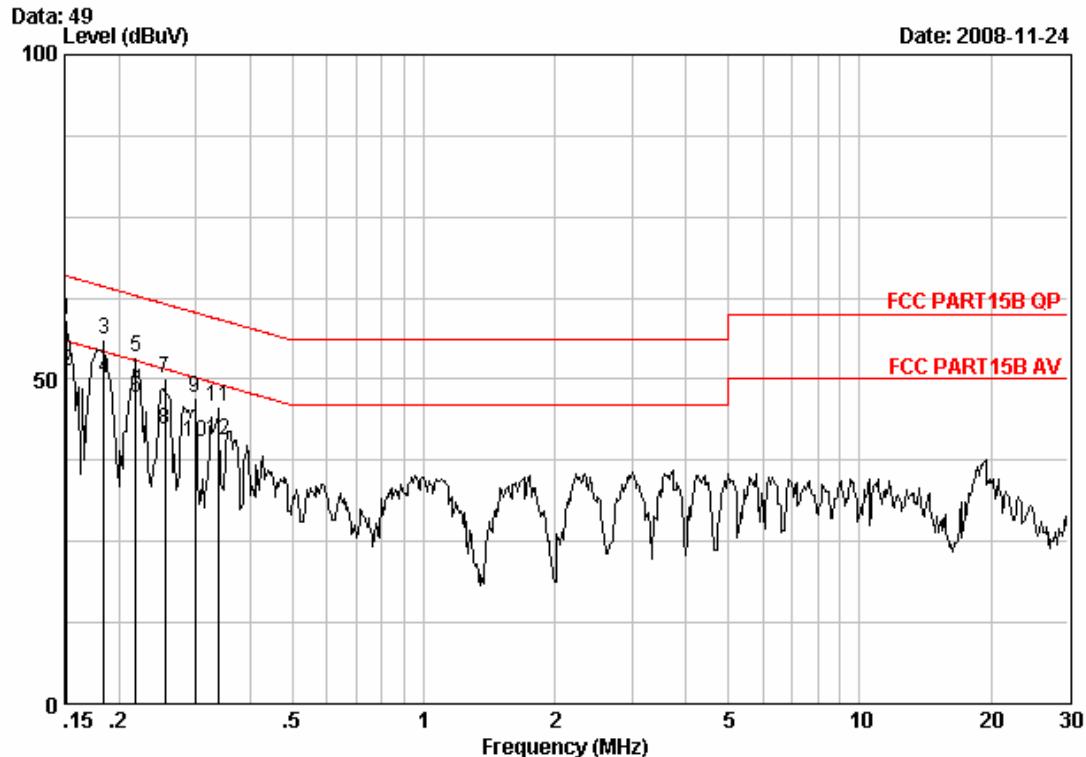
Freq	Cable	LISN	Read	Limit	Over	Remark	
	Freq	Loss	Factor				
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15900	0.04	0.00	60.20	60.24	65.52	-5.28 QP
2	0.15900	0.04	0.00	51.40	51.44	55.52	-4.08 Average
3	0.20944	0.04	0.00	56.30	56.34	63.23	-6.89 QP
4 @	0.20944	0.04	0.00	49.20	49.24	53.23	-3.99 Average
5	0.27734	0.05	0.00	49.80	49.85	60.90	-11.05 QP
6	0.27734	0.05	0.00	42.70	42.75	50.90	-8.15 Average
7	0.42825	0.06	0.00	39.60	39.66	57.29	-17.63 QP
8	0.42825	0.06	0.00	32.40	32.46	47.29	-14.83 Average
9	1.005	0.08	0.00	39.30	39.38	56.00	-16.62 QP
10	1.005	0.08	0.00	32.50	32.58	46.00	-13.42 Average
11	1.689	0.11	0.00	39.70	39.81	56.00	-16.19 QP
12	1.689	0.11	0.00	32.70	32.81	46.00	-13.19 Average

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WIFI mode

Live Line

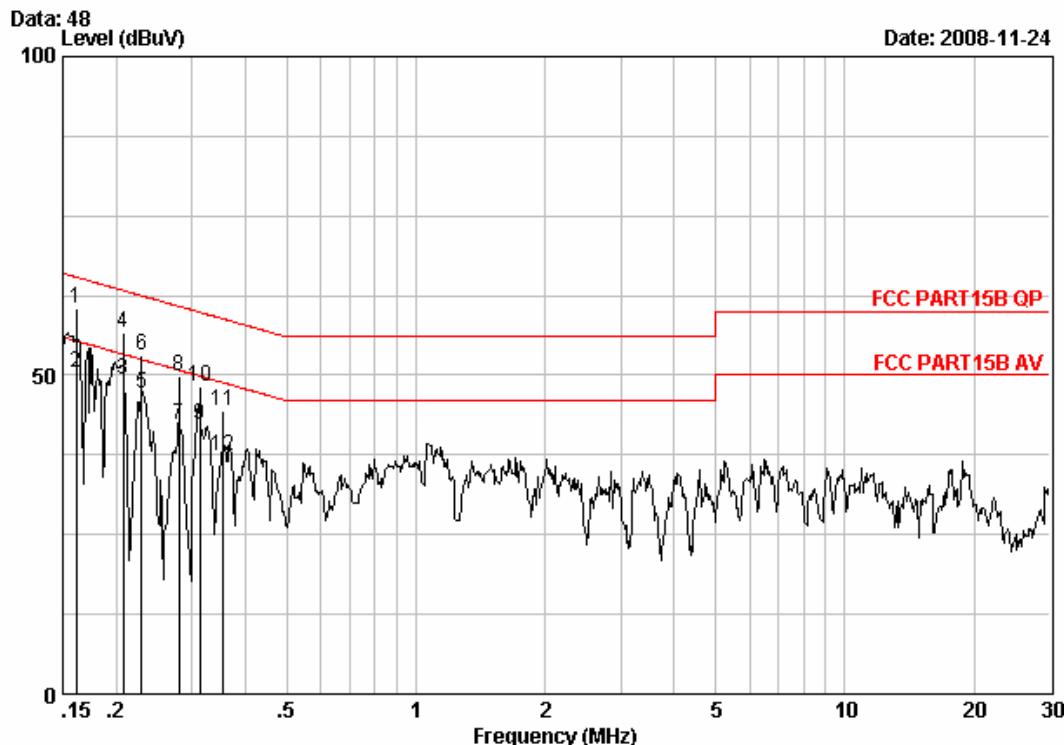


Site : Shielding Room
Condition : FCC PART15B QP CE 11 LINE
EUT : Internet Radio
Job No. : 5729RF
Test Mode : WIFI

Freq	Cable	LISN	Read	Limit		Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	0.15160	0.04	0.00	59.10	59.14	65.91	-6.77 QP
2	0.15160	0.04	0.00	51.30	51.34	55.91	-4.57 Average
3	0.18443	0.04	0.00	56.10	56.14	64.28	-8.14 QP
4 @	0.18443	0.04	0.00	50.20	50.24	54.28	-4.04 Average
5	0.21851	0.04	0.00	53.23	53.27	62.88	-9.60 QP
6	0.21851	0.04	0.00	47.20	47.24	52.88	-5.63 Average
7	0.25480	0.05	0.00	50.21	50.26	61.60	-11.34 QP
8	0.25480	0.05	0.00	42.20	42.25	51.60	-9.35 Average
9	0.29869	0.05	0.00	47.20	47.25	60.28	-13.03 QP
10	0.29869	0.05	0.00	40.20	40.25	50.28	-10.03 Average
11	0.33920	0.05	0.00	45.60	45.65	59.22	-13.57 QP
12	0.33920	0.05	0.00	40.50	40.55	49.22	-8.67 Average

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Neutral Line


Site : Shielding Room
 Condition : FCC PART15B QP CE 11 NEUTRAL
 EUT : Internet Radio
 Job No. : 5729RF
 Test Mode : WIFI

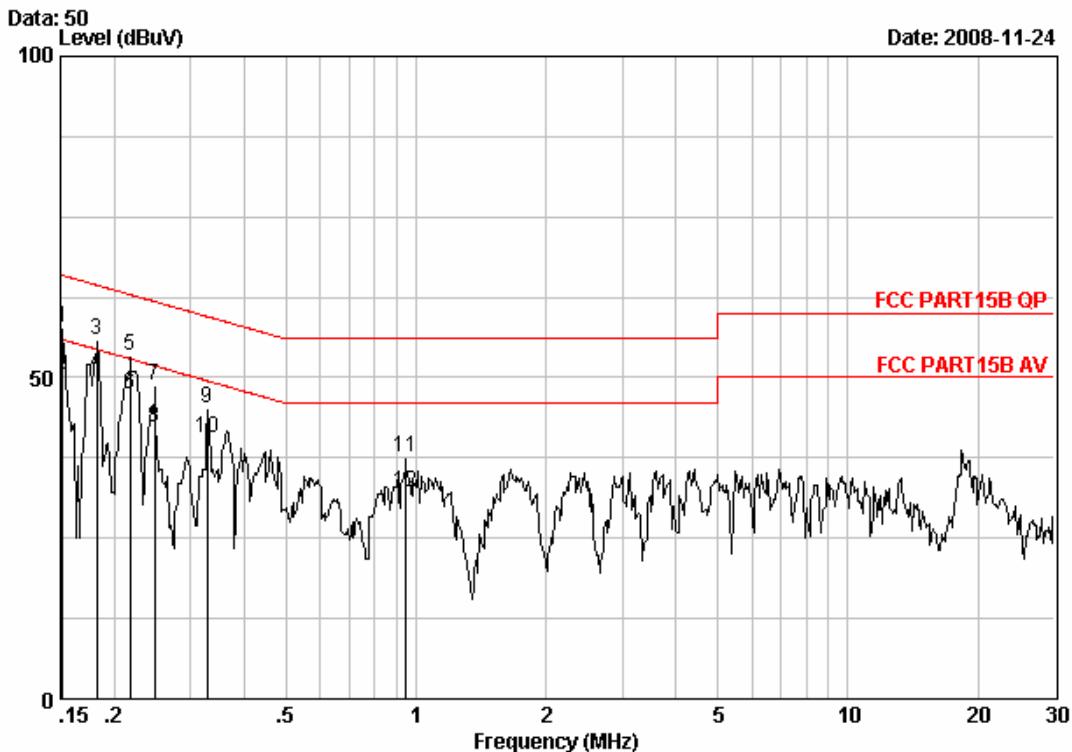
Freq	Cable	LISN	Read	Limit	Over	Remark	
	Loss	Factor	Level	Level	Line		
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.16155	0.04	0.00	60.40	60.44	65.38	-4.94 QP
2	0.16155	0.04	0.00	50.40	50.44	55.38	-4.94 Average
3 @	0.20723	0.04	0.00	49.30	49.34	53.32	-3.97 Average
4	0.20723	0.04	0.00	56.70	56.74	63.32	-6.57 QP
5	0.22918	0.04	0.00	47.14	47.18	52.48	-5.30 Average
6	0.22918	0.04	0.00	53.20	53.24	62.48	-9.24 QP
7	0.28029	0.05	0.00	42.10	42.15	50.81	-8.66 Average
8	0.28029	0.05	0.00	49.80	49.85	60.81	-10.96 QP
9	0.31328	0.05	0.00	42.30	42.35	49.88	-7.53 Average
10	0.31328	0.05	-0.04	48.19	48.20	59.88	-11.68 QP
11	0.35388	0.05	0.00	44.30	44.35	58.87	-14.52 QP
12	0.35388	0.05	0.00	37.20	37.25	48.87	-11.62 Average

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LAN mode

Live Line



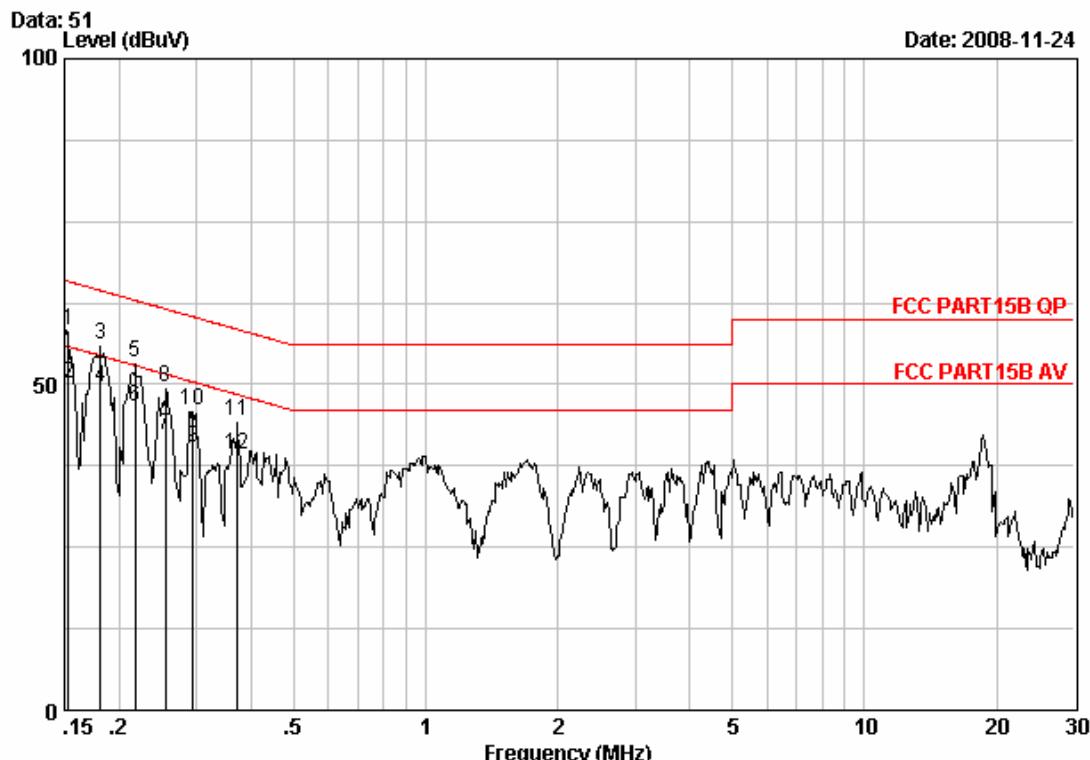
Site : Shielding Room
Condition : FCC PART15B QP CE 11 LINE
EUT : Internet Radio
Job No. : 5729RF
Test Mode : LAN

Freq	Cable	LISN	Read	Limit	Over	Remark
	Loss	Factor	Level	Level	Line	
	MHz	dB	dB	dBuV	dBuV	dB
1	0.15160	0.04	0.00	57.80	57.84	65.91 -8.07 QP
2	0.15160	0.04	0.00	50.30	50.34	55.91 -5.57 Average
3	0.18249	0.04	0.00	55.80	55.84	64.37 -8.53 QP
4 @	0.18249	0.04	0.00	50.60	50.64	54.37 -3.73 Average
5	0.21735	0.04	0.00	53.40	53.44	62.92 -9.48 QP
6	0.21735	0.04	0.00	47.30	47.34	52.92 -5.58 Average
7	0.24814	0.05	0.00	48.80	48.85	61.82 -12.97 QP
8	0.24814	0.05	0.00	42.20	42.25	51.82 -9.57 Average
9	0.32858	0.05	0.00	45.10	45.15	59.49 -14.34 QP
10	0.32858	0.05	0.00	40.60	40.65	49.49 -8.84 Average
11	0.94809	0.08	0.00	37.40	37.48	56.00 -18.52 QP
12	0.94809	0.08	0.00	32.20	32.28	46.00 -13.72 Average

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Neutral Line



Site : Shielding Room
 Condition : FCC PART15B QP CE 11 NEUTRAL
 EUT : Internet Radio
 Job No. : 5729RF
 Test Mode : LAN

	Freq	Cable	LISN	Read	Limit	Over	Remark
		Loss	Factor	Level			
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15321	0.04	0.00	58.20	58.24	65.82	-7.58 QP
2	0.15321	0.04	0.00	50.10	50.14	55.82	-5.68 Average
3	0.18152	0.04	0.00	56.20	56.24	64.42	-8.18 QP
4 @	0.18152	0.04	0.00	49.60	49.64	54.42	-4.78 Average
5	0.21735	0.04	0.00	53.50	53.54	62.92	-9.38 QP
6	0.21735	0.04	0.00	46.50	46.54	52.92	-6.38 Average
7	0.25480	0.05	0.00	42.20	42.25	51.60	-9.35 Average
8	0.25480	0.05	0.00	49.50	49.55	61.60	-12.05 QP
9	0.29398	0.05	0.00	40.20	40.25	50.41	-10.16 Average
10	0.29398	0.05	0.00	46.10	46.15	60.41	-14.26 QP
11	0.37117	0.05	0.00	44.30	44.35	58.47	-14.12 QP
12	0.37117	0.05	0.00	39.20	39.25	48.47	-9.22 Average

TEST RESULTS: The unit does meet the FCC requirement

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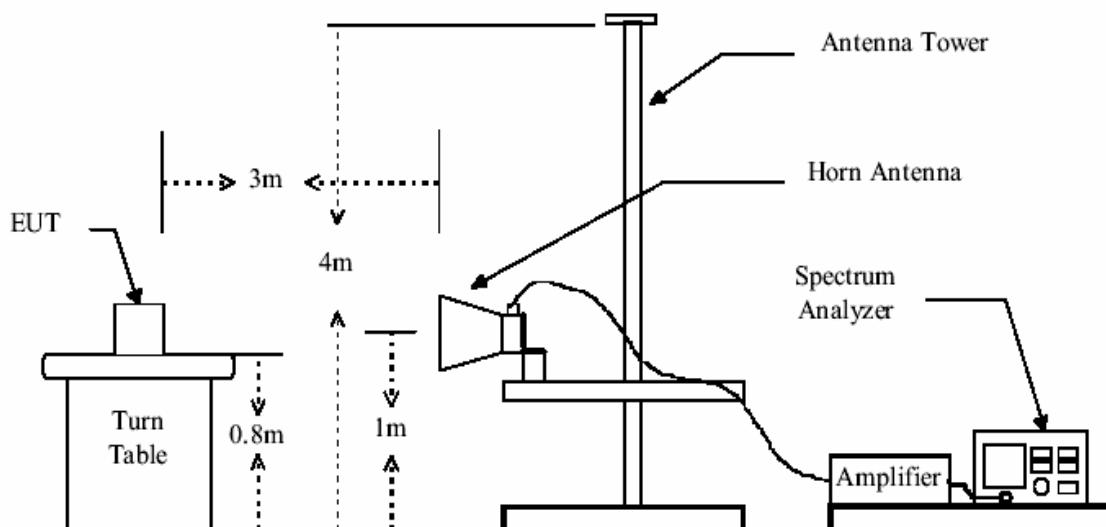
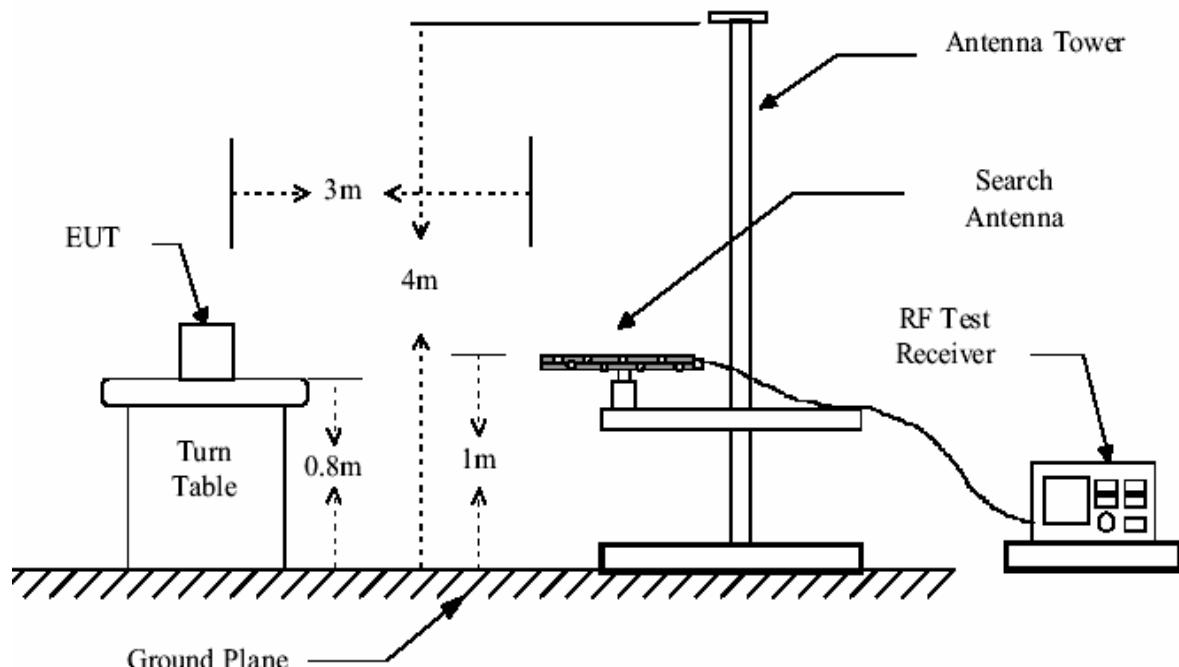
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5.3.2 Radiated Emissions

Test Requirement:	FCC Part15 C Section 15.247, 15.209 and 15.205
Test Method:	ANSI C63.4 & DA 00-705
Select test mode:	802.11 b 1Mbps & 802.11g 6Mbps
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Test Range	30MHz to 25GHz 30MHz-1000MHz: RBW=100KHz, VBW=300KHz Above 1GHz: PK RBW=1MHz, VBW=3MHz Average RBW=1MHz, VBW=10Hz
15.209 Limit:	40.0 dB μ V/m between 30MHz & 88MHz 43.5 dB μ V/m between 88MHz & 216MHz 46.0 dB μ V/m between 216MHz & 960MHz above 960MHz: Average value Limit 54.0 dB μ V/m Peak value Limit 74.0 dB μ V/m.
Test Procedure:	The procedure used was ANSI Standard C63.4-2003. The receiver was scanned from 30MHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

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Test Configuration


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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5.3.2.1 Radiated emission below 1GHz

Test in AUX in mode

Vertical

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)
113.420	1.24	8.36	27.74	46.97	28.83	43.50	-14.67
137.670	1.30	8.00	27.54	46.14	27.90	43.50	-15.60
238.550	1.62	11.93	26.96	48.00	34.59	46.00	-11.41
353.980	2.07	15.49	27.12	44.54	34.98	46.00	-11.02
431.992	2.34	16.52	27.51	51.57	42.92	46.00	-3.08
696.390	2.89	21.58	27.29	37.18	34.36	46.00	-11.64

Horizontal

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)
85.290	1.10	8.26	27.97	52.84	34.23	40.00	-5.77
129.910	1.28	7.70	27.61	50.71	32.08	43.50	-11.42
202.660	1.42	10.32	27.14	44.17	28.77	43.50	-14.73
443.220	2.38	16.74	27.55	47.60	39.17	46.00	-6.83
568.350	2.67	19.05	27.65	45.30	39.37	46.00	-6.63
695.420	2.89	21.58	27.30	42.40	39.57	46.00	-6.43

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Test in WIFI mode.
Vertical

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)
40.670	0.61	10.93	28.09	44.86	28.31	40.00	-11.69
82.380	1.10	7.95	27.99	46.87	27.93	40.00	-12.07
133.790	1.29	7.86	27.57	51.22	32.80	43.50	-10.70
471.350	2.49	17.67	27.63	45.54	38.07	46.00	-7.93
568.350	2.67	19.05	27.65	45.82	39.89	46.00	-6.11
669.230	2.84	21.24	27.38	44.39	41.09	46.00	-4.91

Horizontal

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)
129.910	1.28	7.70	27.61	46.74	28.11	43.50	-15.39
163.860	1.34	9.56	27.36	47.70	31.24	43.50	-12.26
202.660	1.42	10.32	27.14	46.96	31.56	43.50	-11.94
353.980	2.07	15.49	27.12	45.17	35.61	46.00	-10.39
493.660	2.58	17.80	27.69	38.37	31.06	46.00	-14.94
695.420	2.89	21.58	27.30	37.02	34.19	46.00	-11.81

Test in LAN mode.
Vertical

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)
62.980	0.80	7.11	28.03	57.04	36.92	40.00	-3.08
110.510	1.23	8.57	27.77	53.84	35.87	43.50	-7.63
163.860	1.34	9.56	27.36	50.96	34.50	43.50	-9.00
246.310	1.66	12.19	26.93	51.48	38.40	46.00	-7.60
443.220	2.38	16.74	27.55	46.66	38.23	46.00	-7.77
669.230	2.84	21.24	27.38	43.81	40.51	46.00	-5.49

Horizontal

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)
40.670	0.61	11.53	28.09	51.36	35.41	40.00	-4.59
66.860	0.80	6.99	28.01	52.58	32.36	40.00	-7.64
110.510	1.23	8.57	27.77	54.58	36.61	43.50	-6.89
257.950	1.71	12.47	26.88	53.14	40.44	46.00	-5.56
354.950	2.08	15.53	27.12	50.68	41.17	46.00	-4.83
436.430	2.35	16.62	27.53	44.60	36.04	46.00	-9.96

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5.3.2.2 Transmitter emission above 1GHz

For EUT communicating with 802.11b Mode(2.412GHz)

Peak Measurement

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
2400.000	4.97	40.1	44.75	61.99	62.31	74.00	-11.69	Vertical
2439.000	5.03	39.97	44.77	66.86	67.09	74.00	-6.91	Vertical
1810.750	4.20	41.84	44.69	54.98	56.33	74.00	-17.67	Vertical
4795.250	6.60	44.60	45.39	49.80	55.61	74.00	18.39	Vertical
7286.250	7.60	46.67	44.42	48.95	58.80	74.00	15.20	Vertical
9659.750	8.55	49.90	42.17	45.36	61.64	74.00	12.36	Vertical
2400.000	4.97	40.1	44.75	64.47	64.79	74.00	-9.21	Horizontal
2439.000	5.03	39.97	44.77	58.94	59.17	74.00	-14.83	Horizontal
1822.500	4.20	41.84	44.69	56.17	57.52	74.00	-16.48	Horizontal
4795.250	6.60	44.60	45.39	51.03	56.84	74.00	-17.16	Horizontal
7215.750	7.63	46.53	44.49	49.74	59.41	74.00	-14.59	Horizontal
9624.500	8.53	49.70	42.20	44.70	60.73	74.00	-13.27	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
2400.000	4.97	40.10	44.75	45.01	45.33	54.00	-8.67	Vertical
2439.000	5.03	39.97	44.77	44.58	44.81	54.00	-9.19	Vertical
1528.750	3.79	43.00	44.73	36.07	38.13	54.00	-15.87	Vertical
4854.000	6.63	44.66	45.41	35.73	41.61	54.00	-12.39	Vertical
7262.750	7.62	46.60	44.46	34.56	44.32	54.00	-9.68	Vertical
9659.750	8.55	49.90	42.17	31.70	47.98	54.00	-6.02	Vertical
2400.000	4.97	40.10	44.75	45.08	45.40	54.00	-8.60	Horizontal
2439.000	5.03	39.97	44.77	44.60	44.83	54.00	-9.17	Horizontal
1481.750	3.72	43.01	44.73	36.20	38.20	54.00	-15.80	Horizontal
4818.750	6.62	44.63	45.40	35.75	41.60	54.00	-12.40	Horizontal
7286.250	7.60	46.67	44.42	34.50	44.35	54.00	-9.65	Horizontal
9624.500	8.53	49.70	42.20	31.61	47.64	54.00	-6.36	Horizontal

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For EUT communicating with 802.11b Mode(2.437GHz)

Peak Measurement

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
2400.000	4.97	40.10	44.75	63.04	63.36	74.00	-10.64	Vertical
2483.500	5.08	39.88	44.77	63.96	64.15	74.00	-9.85	Vertical
1787.250	4.15	41.97	44.69	64.75	66.18	74.00	-7.82	Vertical
4854.000	6.63	44.66	45.41	55.87	61.75	74.00	-12.25	Vertical
7215.750	7.63	46.53	44.49	55.44	65.11	74.00	-8.89	Vertical
2400.000	4.97	40.10	44.75	60.37	60.69	74.00	-13.31	Horizontal
2483.500	5.08	39.88	44.77	60.17	60.36	74.00	-13.64	Horizontal
1963.500	4.42	41.22	44.66	63.59	64.57	74.00	-9.43	Horizontal
2010.500	4.47	41.08	44.66	62.65	63.54	74.00	-10.46	Horizontal
4854.000	6.63	44.66	45.41	57.73	63.61	74.00	-10.39	Horizontal
7262.750	7.62	46.60	44.46	56.11	65.87	74.00	-8.13	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
2400.000	4.97	40.10	44.75	45.17	45.49	54.00	-8.51	Vertical
2483.500	5.08	39.88	44.77	46.25	46.44	54.00	-7.56	Vertical
1540.500	3.81	42.93	44.72	36.00	38.02	54.00	-15.98	Vertical
4830.500	6.62	44.63	45.40	36.01	41.86	54.00	-12.14	Vertical
7368.500	7.56	46.84	44.34	35.46	45.52	54.00	-8.48	Vertical
9518.750	8.44	49.08	42.30	32.34	47.56	54.00	-6.44	Vertical
2400.000	4.97	40.10	44.75	44.83	45.15	54.00	-8.85	Horizontal
2483.500	5.08	39.88	44.77	45.11	45.30	54.00	-8.70	Horizontal
1634.500	3.93	42.59	44.71	35.98	37.79	54.00	-16.21	Horizontal
4877.500	6.64	44.68	45.42	36.11	42.01	54.00	-11.99	Horizontal
7286.250	7.60	46.67	44.42	35.54	45.39	54.00	-8.61	Horizontal
9695.000	8.58	50.11	42.14	32.29	48.84	54.00	-5.16	Horizontal

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For EUT communicating with 802.11b Mode(2.462GHz)

Peak Measurement

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
2483.500	5.08	39.88	44.77	63.45	63.64	74.00	-10.36	Vertical
2500.000	5.10	39.84	44.78	63.02	63.18	74.00	-10.82	Vertical
1963.500	4.42	41.22	44.66	63.10	64.08	74.00	-9.92	Vertical
4818.750	6.62	44.63	45.40	47.77	53.62	74.00	-20.38	Vertical
7215.750	7.63	46.53	44.49	48.17	57.84	74.00	-16.16	Vertical
9659.750	8.55	49.90	42.17	44.50	60.78	74.00	-13.22	Vertical
2483.500	5.08	39.88	44.77	70.09	70.28	74.00	-3.72	Horizontal
2500.000	5.10	39.84	44.78	69.07	69.23	74.00	-4.77	Horizontal
1963.500	4.42	41.22	44.66	59.13	60.11	74.00	-13.89	Horizontal
4830.500	6.62	44.63	45.40	47.73	53.58	74.00	-20.42	Horizontal
7215.750	7.63	46.53	44.49	47.21	56.88	74.00	-17.12	Horizontal
9659.750	8.55	49.90	42.17	43.79	60.07	74.00	-13.93	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit	polarization
2483.500	5.08	39.88	44.77	43.37	43.56	54.00	-10.44	Vertical
2500.000	5.10	39.84	44.78	39.73	39.89	54.00	-14.11	Vertical
1575.750	3.86	42.80	44.72	36.01	37.95	54.00	-16.05	Vertical
4818.750	6.62	44.63	45.40	35.98	41.83	54.00	-12.17	Vertical
7239.250	7.62	46.57	44.48	35.59	45.30	54.00	-8.70	Vertical
9624.500	8.53	49.70	42.20	32.37	48.40	54.00	-5.60	Vertical
2483.500	5.08	39.88	44.77	43.60	43.79	54.00	-10.21	Horizontal
2500.000	5.10	39.84	44.78	39.70	39.86	54.00	-14.14	Horizontal
1540.500	3.81	42.93	44.72	36.01	38.03	54.00	-15.97	Horizontal
4865.750	6.63	44.66	45.41	36.01	41.89	54.00	-12.11	Horizontal
7262.750	7.62	46.60	44.46	35.60	45.36	54.00	-8.64	Horizontal
9695.000	8.58	50.11	42.14	32.31	48.86	54.00	-5.14	Horizontal

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For EUT communicating with 802.11g Mode(2.412GHz)

Peak Measurement

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
2400.000	4.97	40.10	44.75	60.63	60.95	74.00	-13.05	Vertical
2439.000	5.03	39.97	44.77	52.89	53.12	74.00	-20.88	Vertical
1963.500	4.42	41.22	44.66	58.41	59.39	74.00	-14.61	Vertical
4830.500	6.62	44.63	45.40	49.82	55.67	74.00	-18.33	Vertical
7286.250	7.60	46.67	44.42	49.09	58.94	74.00	-15.06	Vertical
9695.000	8.58	50.11	42.14	47.90	64.45	74.00	-9.55	Vertical
2400.000	4.97	40.10	44.75	62.24	62.56	74.00	-11.44	Horizontal
2439.000	5.03	39.97	44.77	49.47	49.70	74.00	-24.30	Horizontal
1963.500	4.42	41.22	44.66	63.40	64.38	74.00	-9.62	Horizontal
4830.500	6.62	44.63	45.40	50.26	56.11	74.00	-17.89	Horizontal
7215.750	7.63	46.53	44.49	49.89	59.56	74.00	-14.44	Horizontal
9695.000	8.58	50.11	42.14	48.27	64.82	74.00	-9.18	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit (dB)	polarization
2400.000	4.97	40.10	44.75	36.26	36.58	54.00	-17.42	Vertical
2439.000	5.03	39.97	44.77	36.37	36.60	54.00	-17.40	Vertical
1587.500	3.89	42.73	44.72	37.83	39.73	54.00	-14.27	Vertical
4854.000	6.63	44.66	45.41	37.61	43.49	54.00	-10.51	Vertical
7262.750	7.62	46.60	44.46	37.34	47.10	54.00	-6.90	Vertical
9624.500	8.53	49.70	42.20	35.38	51.41	54.00	-2.59	Vertical
2400.000	4.97	40.10	44.75	35.53	35.85	54.00	-18.15	Horizontal
2439.000	5.03	39.97	44.77	35.86	36.09	54.00	-17.91	Horizontal
1505.250	3.76	43.07	44.73	35.94	38.04	54.00	-15.96	Horizontal
4854.000	6.63	44.66	45.41	35.89	41.77	54.00	-12.23	Horizontal
7262.750	7.62	46.60	44.46	35.55	45.31	54.00	-8.69	Horizontal
9659.750	8.55	49.90	42.17	32.27	48.55	54.00	-5.45	Horizontal

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For EUT communicating with 802.11g Mode(2.437GHz)

Peak Measurement

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
2400.000	4.97	40.10	44.75	51.31	51.63	74.00	-22.37	Vertical
2483.500	5.08	39.88	44.77	56.63	56.82	74.00	-17.18	Vertical
1963.500	4.42	41.22	44.66	57.42	58.40	74.00	-15.60	Vertical
4854.000	6.63	44.66	45.41	49.10	54.98	74.00	-19.02	Vertical
7262.750	7.62	46.60	44.46	47.57	57.33	74.00	-16.67	Vertical
9659.750	8.55	49.90	42.17	43.91	60.19	74.00	-13.81	Vertical
2400.000	4.97	40.10	44.75	48.75	49.07	74.00	-24.93	Horizontal
2483.500	5.08	39.88	44.77	53.90	54.09	74.00	-19.91	Horizontal
1963.500	4.42	41.22	44.66	61.86	62.84	74.00	-11.16	Horizontal
4865.750	6.63	44.66	45.41	48.25	54.13	74.00	-19.87	Horizontal
7215.750	7.63	46.53	44.49	46.71	56.38	74.00	-17.62	Horizontal
9695.000	8.58	50.11	42.14	44.23	60.78	74.00	-13.22	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit (dB)	polarization
2400.000	4.97	40.10	44.75	35.36	35.68	54.00	-18.32	Vertical
2483.500	5.08	39.88	44.77	35.48	35.67	54.00	-18.33	Vertical
1528.750	3.79	43.00	44.73	35.95	38.01	54.00	-15.99	Vertical
4865.750	6.63	44.66	45.41	35.94	41.82	54.00	-12.18	Vertical
7239.250	7.62	46.57	44.48	35.59	45.30	54.00	-8.70	Vertical
9659.750	8.55	49.90	42.17	32.27	48.55	54.00	-5.45	Vertical
2400.000	4.97	40.10	44.75	35.47	35.79	54.00	-18.21	Horizontal
2483.500	5.08	39.88	44.77	35.68	35.87	54.00	-18.13	Horizontal
1517.000	3.76	43.07	44.73	35.92	38.02	54.00	-15.98	Horizontal
4865.750	6.63	44.66	45.41	35.92	41.80	54.00	-12.20	Horizontal
7239.250	7.62	46.57	44.48	35.58	45.29	54.00	-8.71	Horizontal
9695.000	8.58	50.11	42.14	32.20	48.75	54.00	-5.25	Horizontal

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For EUT communicating with 802.11g Mode(2.462GHz)

Peak Measurement

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
2483.500	5.08	39.88	44.77	50.70	50.89	74.00	-23.11	Vertical
2500.000	5.10	39.84	44.78	56.92	57.08	74.00	-16.92	Vertical
1963.500	4.42	41.22	44.66	62.14	63.12	74.00	-10.88	Vertical
4865.750	6.63	44.66	45.41	47.84	53.72	74.00	-20.28	Vertical
7239.250	7.62	46.57	44.48	47.17	56.88	74.00	-17.12	Vertical
9695.000	8.58	50.11	42.14	44.08	60.63	74.00	-13.37	Vertical
2483.500	5.08	39.88	44.77	53.61	53.80	74.00	-20.20	Horizontal
2500.000	5.10	39.84	44.78	53.14	53.30	74.00	-20.70	Horizontal
1963.500	4.42	41.22	44.66	63.00	63.98	74.00	-10.02	Horizontal
4865.750	6.63	44.66	45.41	48.89	54.77	74.00	-19.23	Horizontal
7262.750	7.62	46.60	44.46	48.67	58.43	74.00	-15.57	Horizontal
9695.000	8.58	50.11	42.14	44.35	60.90	74.00	-13.10	Horizontal

Average Measurement

Frequency (MHz)	Cable loss (dB)	Antenna factors (dB/m)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over limit (dB)	polarization
2483.500	5.08	39.88	44.77	36.11	36.30	54.00	-17.70	Vertical
2500.000	5.10	39.84	44.78	35.89	36.05	54.00	-17.95	Vertical
1705.000	4.03	42.32	44.70	35.98	37.63	54.00	-16.37	Vertical
4865.750	6.63	44.66	45.41	35.96	41.84	54.00	-12.16	Vertical
7286.250	7.60	46.67	44.42	35.57	45.42	54.00	-8.58	Vertical
9695.000	8.58	50.11	42.14	32.28	48.83	54.00	-5.17	Vertical
2483.500	5.08	39.88	44.77	35.96	36.15	54.00	-17.85	Horizontal
2500.000	5.10	39.84	44.78	35.87	36.03	54.00	-17.97	Horizontal
1646.250	3.96	42.52	44.71	35.99	37.76	54.00	-16.24	Horizontal
4854.000	6.63	44.66	45.41	35.91	41.79	54.00	-12.21	Horizontal
7239.250	7.62	46.57	44.48	35.58	45.29	54.00	-8.71	Horizontal
9624.500	8.53	49.70	42.20	32.34	48.37	54.00	-5.63	Horizontal

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Remark:

Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

TEST RESULTS: The unit does meet the FCC requirements.

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5.3.3 Occupied Bandwidth

Test Requirement:	FCC 15.247(a2)
Test Method:	ANSI C63.4:2003 and KDB558074
Select test mode:	802.11 b 1Mbps & 802.11g 6Mbps
Requirements:	15.247 (a2) For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps and 802.11g 6/9/12/18/24/36/48/54Mbps) and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
802.11b 1Mbps and 802.11g 6Mbps

Equipment Mode	Spectrum Analyzer
Detector Function	Peak Mode
RBW	100KHz for 802.11b and 802.11g
VBW	300KHz for 802.11b and 802.11g

Method of measurement: The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB. Analyzer and the attached plot were taken. The EUT was setup to ANSI C63.4, 2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance with FCC 47CFR 15.247 requirements.

Test results:

1. The EUT communicating with 802.11b Mode

CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
2.412	12.28	0.5	Pass
2.437	12.48	0.5	Pass
2.462	11.48	0.5	Pass

2. The EUT communicating with 802.11g Mode

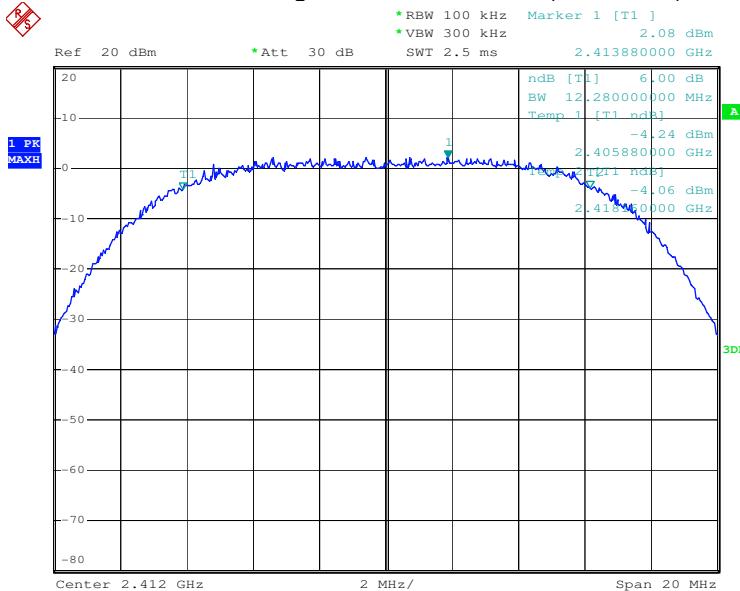
CHANNEL FREQUENCY (MHz)	6 dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
2.412	16.52	0.5	Pass
2.437	16.56	0.5	Pass
2.462	16.44	0.5	Pass

Conclusion: The unit does meet the FCC requirements.

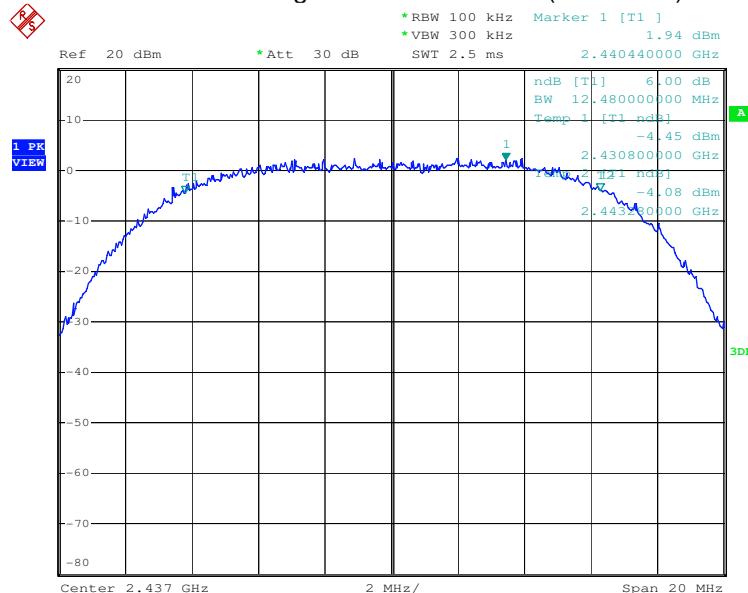
Please refer to the graph as below:

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1. For EUT communicating with 802.11b mode (2.412GHz)


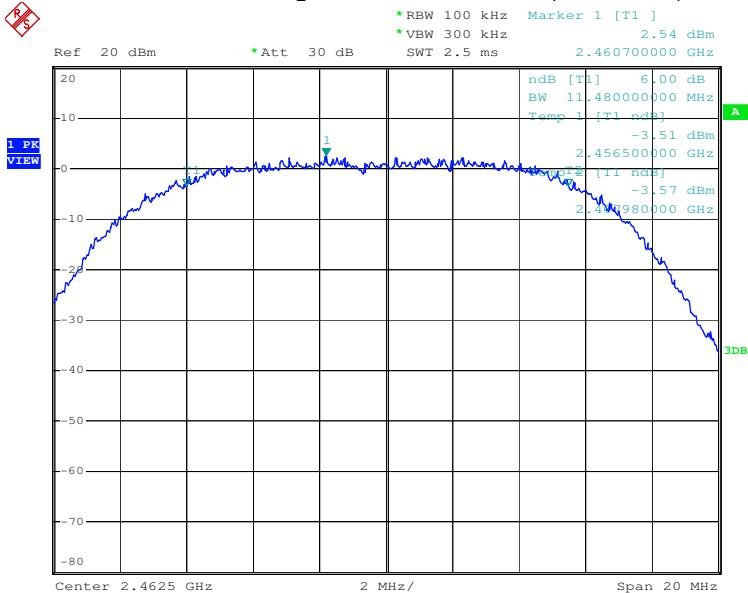
Date: 5.JAN.2009 15:52:26

2. For EUT communicating with 802.11b mode (2.437GHz)


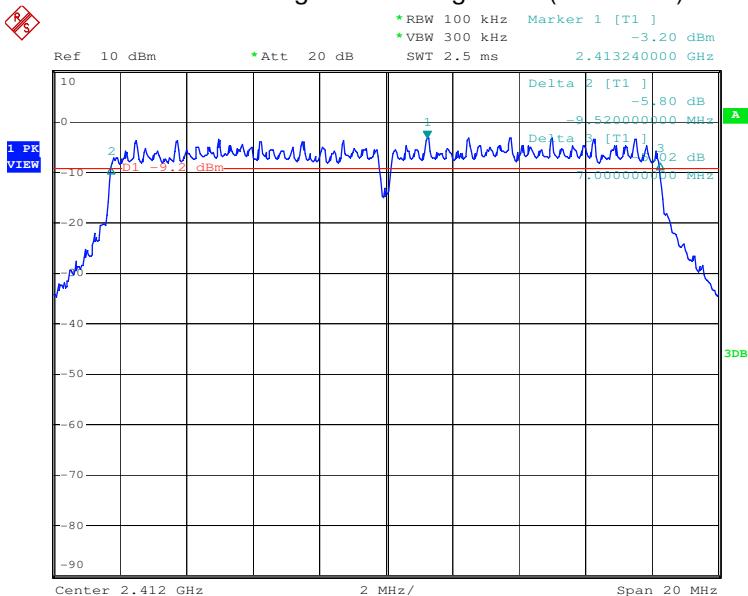
Date: 5.JAN.2009 16:13:09

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3. For EUT communicating with 802.11b mode (2.462GHz)


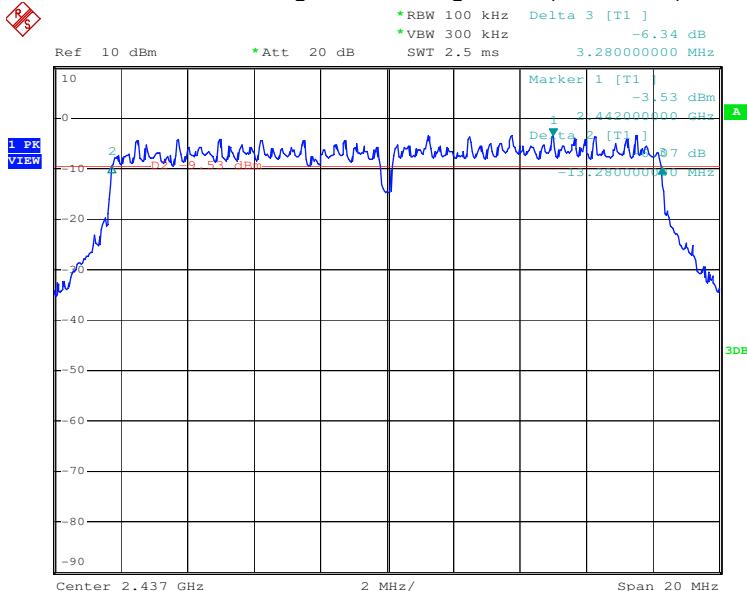
Date: 5.JAN.2009 16:34:20

4. For EUT communicating with 802.11g mode (2.412GHz)


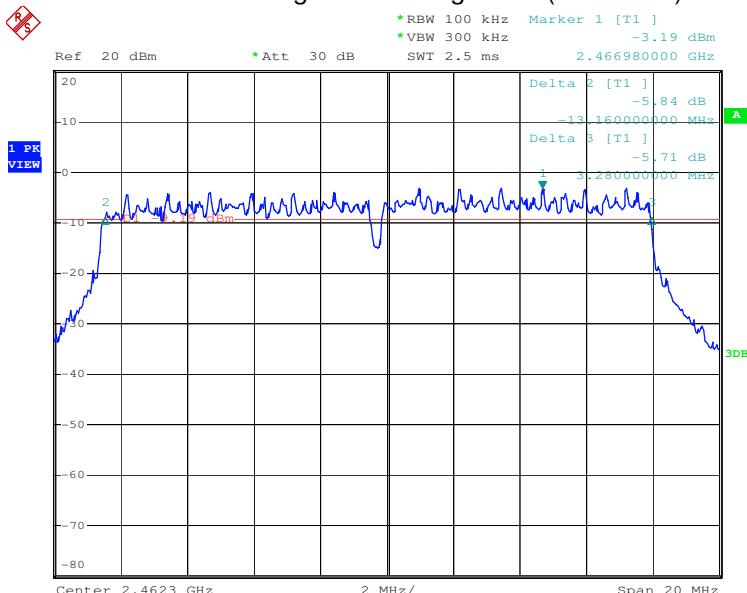
Date: 5.JAN.2009 17:27:28

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5. For EUT communicating with 802.11g mode (2.437GHz)


Date: 5.JAN.2009 17:43:04

6. For EUT communicating with 802.11g Mode (2.462GHz)


Date: 5.JAN.2009 18:02:16

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5.3.4 Maximum Peak Output Power

Test Requirement: FCC 15.247(b)
Test Method: ANSI C63.4:2003 and KDB558074.
Method of measurement: The EUT was setup to ANSI C63.4, 2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Test mode: 802.11 b 6/1Mbps & 802.11g 6/54Mbps

Equipment Mode	Spectrum Analyzer
Detector Function	Peak Mode
RBW	1MHz
VBW	3MHz

Test Procedure:

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps and 802.11g 6/9/12/18/24/36/48/54Mbps) and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
802.11b 1Mbps and 802.11g 6Mbps.

Requirements:

Regulation 15.247 (b) The Limit of Maximum Peak Output Power Measurement is 30dBm.

Test Result:

For EUT communicating with 802.11b Mode

Test channel (GHz)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)
2.410	18.27	30.00	10.15
2.437	18.04	30.00	9.92
2.462	18.30	30.00	10.01

For EUT communicating with 802.11g Mode

Test channel (GHz)	Peak Output Power (dBm)	Limit (dBm)	Margin (dB)
2.410	15.90	30.00	10.62
2.437	15.60	30.00	10.56
2.462	15.67	30.00	10.87

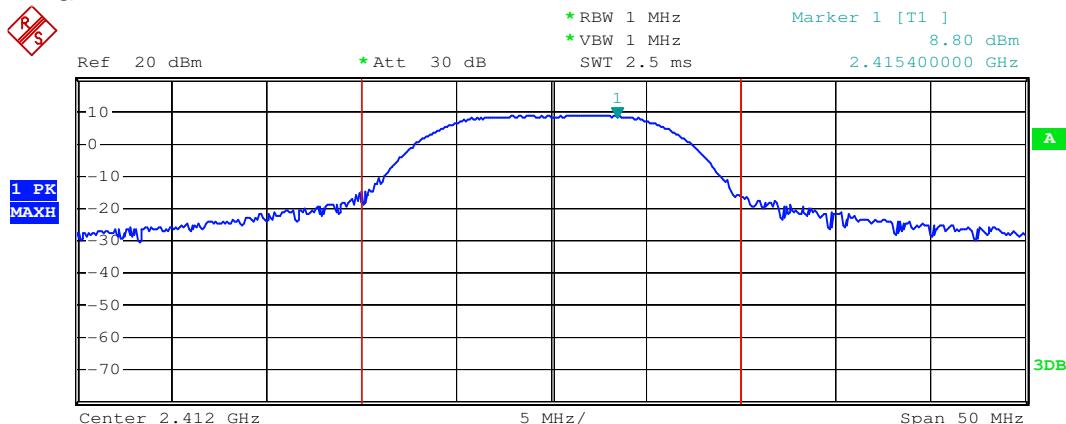
Test result: The unit does meet the FCC requirements.

Test result plot as follows:

FCC ID: VSAPX6000I00001

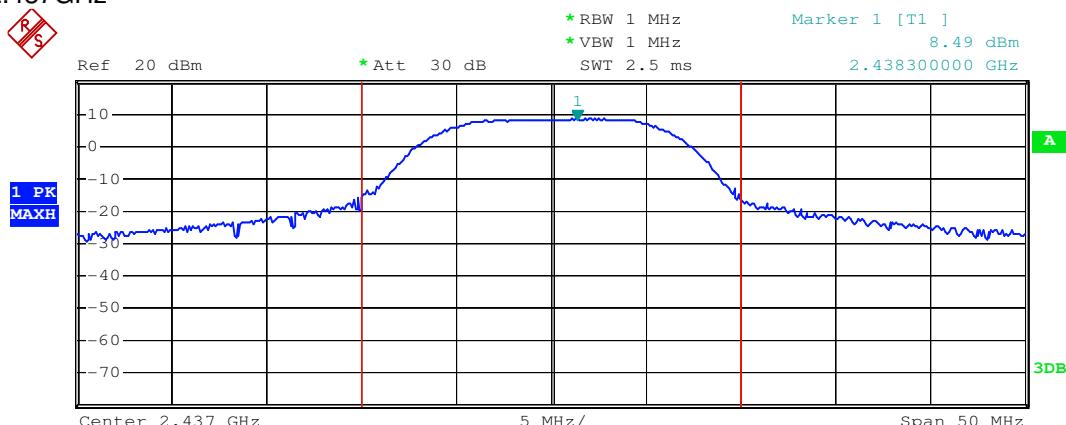
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The EUT communicating with 802.11b Mode 2.412GHz



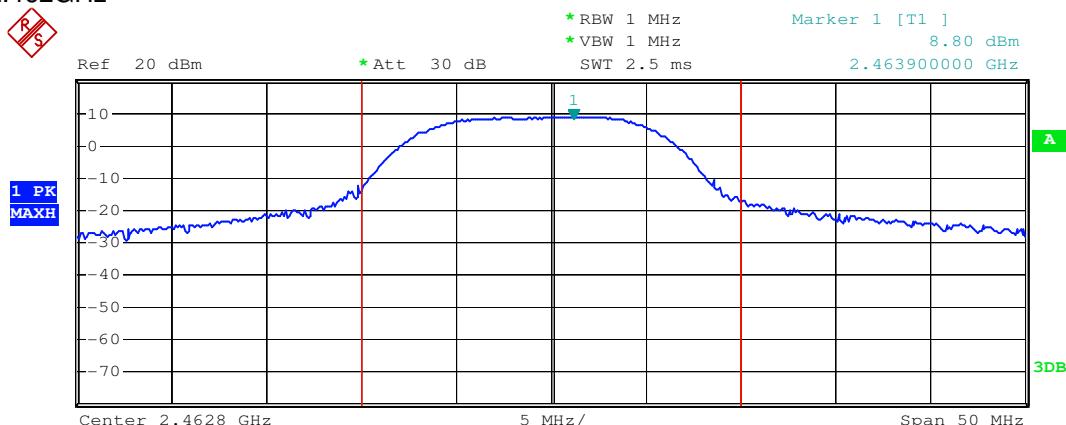
Tx Channel
Bandwidth 20 MHz Power 18.27 dBm

2.437GHz



Tx Channel
Bandwidth 20 MHz Power 18.04 dBm

2.462GHz



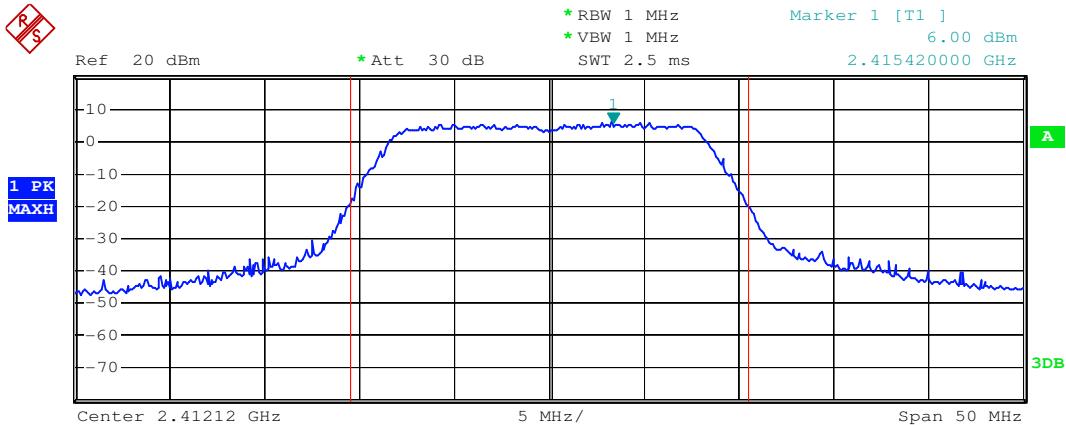
Tx Channel
Bandwidth 20 MHz Power 18.30 dBm

FCC ID: VSAPX6000I00001

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The EUT communicating with 802.11g Mode

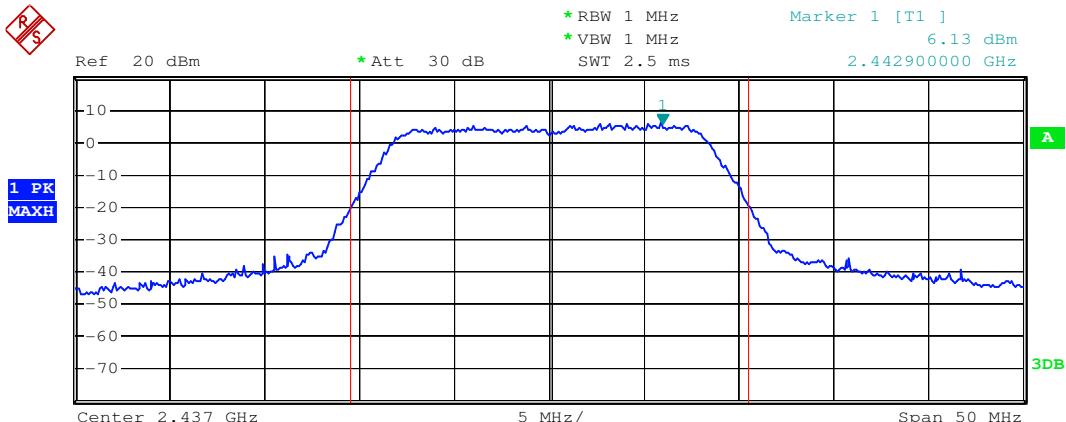
2.412GHz


Tx Channel
Bandwidth 21 MHz

Power

15.90 dBm

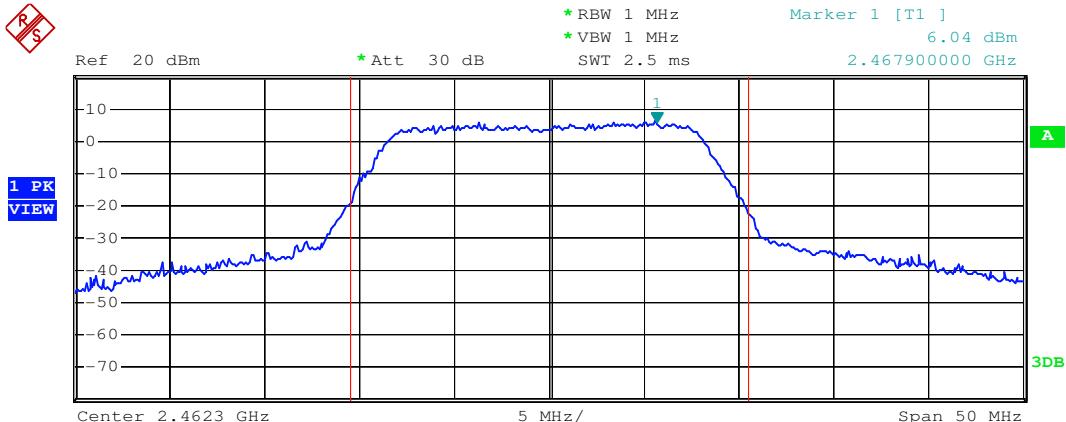
2.437GHz


Tx Channel
Bandwidth 21 MHz

Power

15.60 dBm

2.462GHz


Tx Channel
Bandwidth 21 MHz

Power

15.67 dBm

Conclusion: The EUT meets the requirements of this section.

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5.3.5 Band Edges Measurement

Test Requirement: FCC Part15 C Section 15.247(d)
Test Method: ANSI C63.4; FCC Part15 C Section 15.247:
KDB Publication No. 558074 Public Notice DA 00-705 for DSS
Select test mode: 802.11 b 1Mbps & 802.11g 6Mbps
Requirements:

Regulation 15.247 (d) 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 Procedures:

Procedure: The EUT was setup to ANSI C63.4, 2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Equipment Mode	Spectrum Analyzer
Detector Function	Peak Mode
RBW	100KHz
VBW	300KHz

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps and 802.11g 6/9/12/18/24/36/48/54Mbps) and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

802.11b 1Mbps and 802.11g 6Mbps

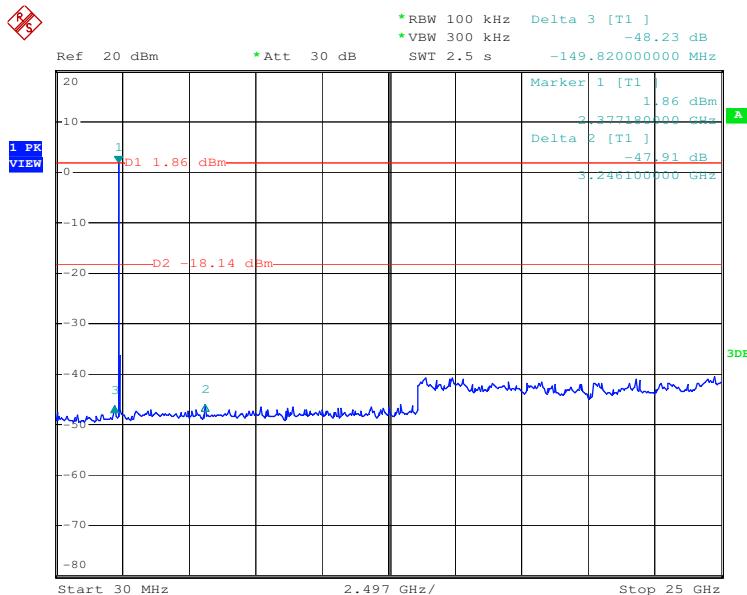
Test Result:

Please refer to the measurement graph and data.

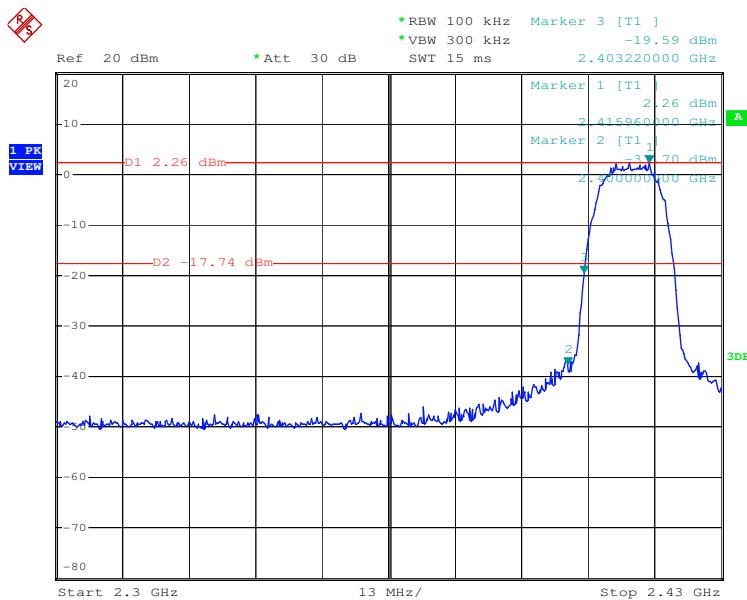
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802.11b mode at 2.412GHz



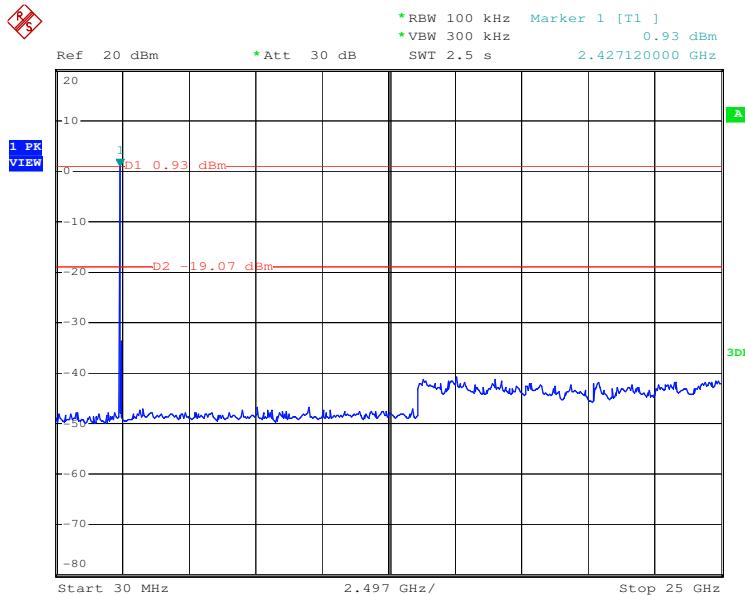
Date: 5.JAN.2009 16:01:49



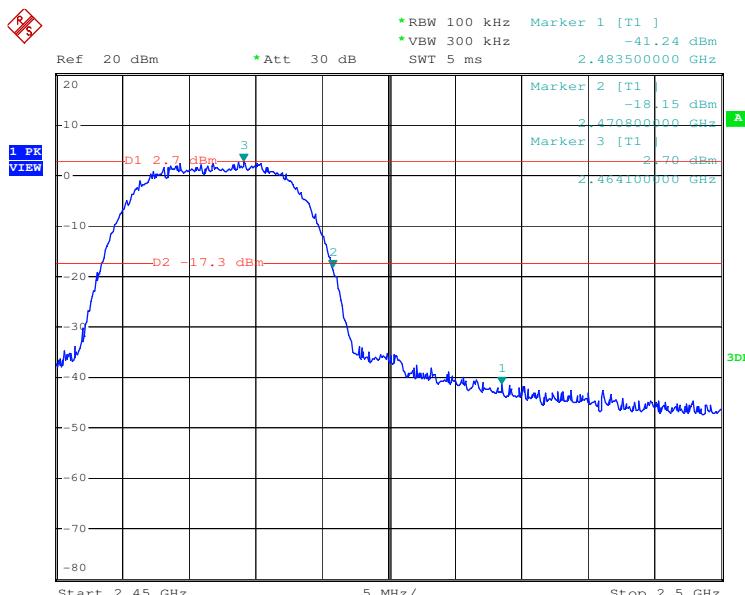
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802.11b mode at 2.462 GHz


Date: 5.JAN.2009 16:41:02

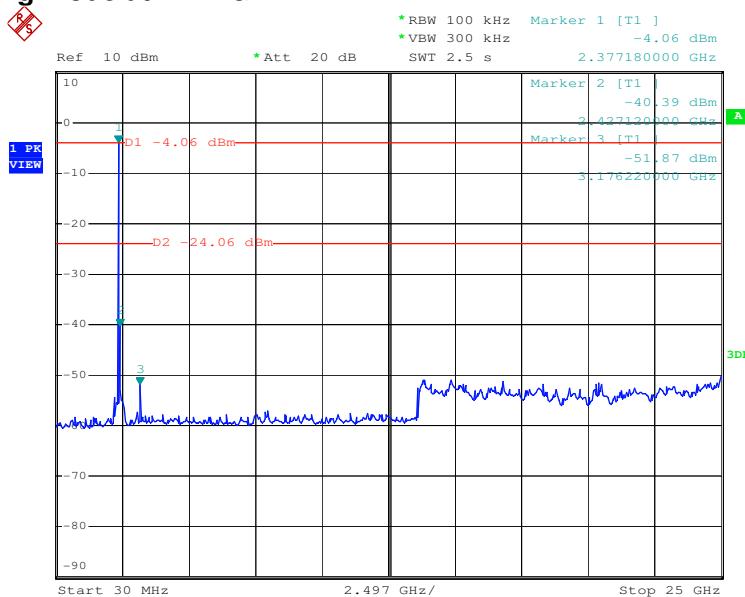


Date: 5.JAN.2009 16:37:57

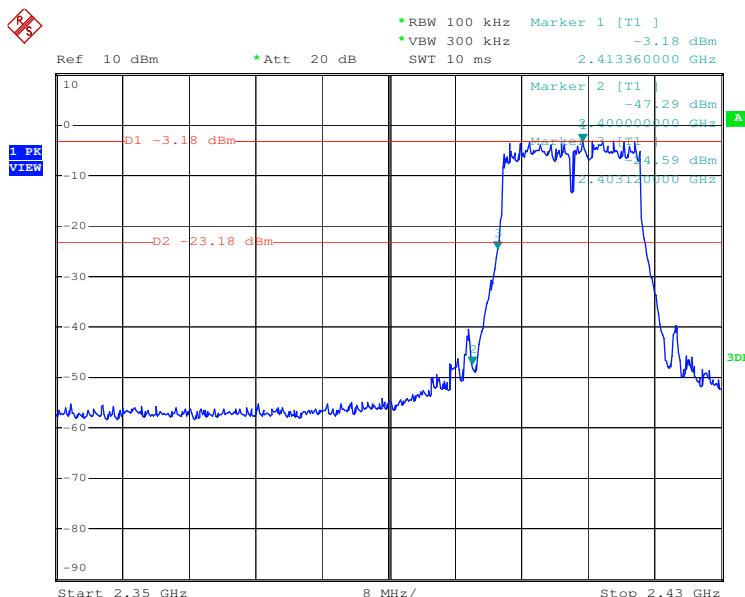
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802.11g mode at 2.412GHz



Date: 5.JAN.2009 17:31:59

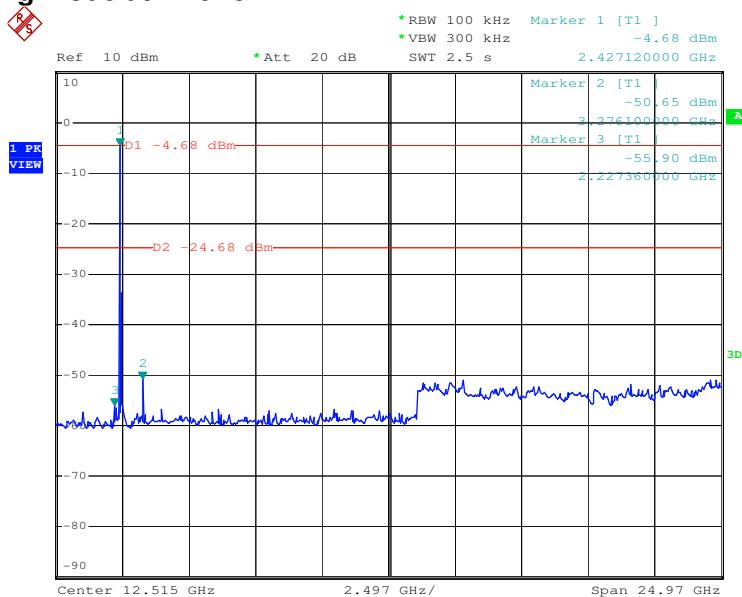


Date: 5.JAN.2009 18:22:13

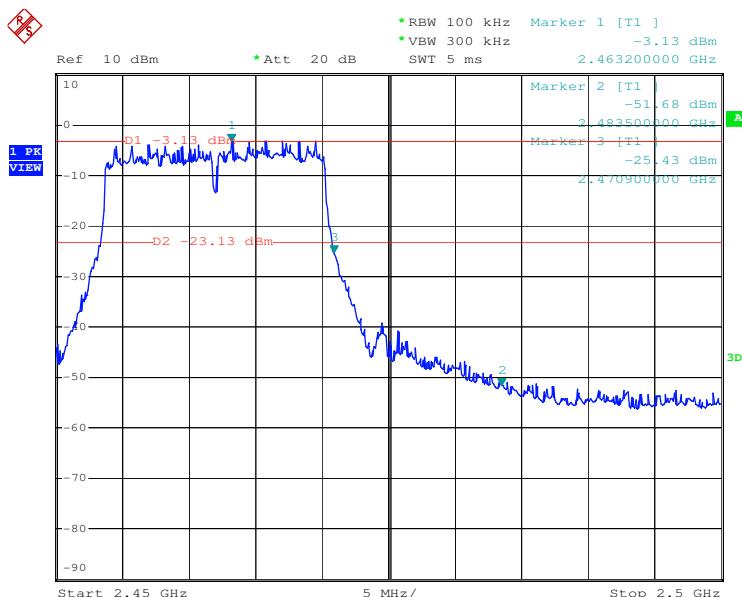
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802.11g mode at 2.462GHz



Date: 5.JAN.2009 18:10:09



Date: 5.JAN.2009 18:08:24

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5.3.6 Power Spectral Density Measurement

Test Requirement: FCC 15.247(d)

Test Method: ANSI C63.4 and KDB Publication No. 558074 Public Notice DA 00-705 for DSS.

Regulation 15.247 (d) for direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission

Test Procedures:

Equipment Mode	Spectrum Analyzer
Detector Function	Peak Mode
RBW	3KHz
VBW	10KHz
Span	300KHz
Sweep Time	100S

Pre-Scan has been conducted to determine the worst-case mode from all possible Combinations between available modulations, data rates (802.11b 1/2/5.5/11Mbps and 802.11g 6/9/12/18/24/36/48/54Mbps) and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
802.11b 1Mbps and 802.11g 6Mbps

The EUT was set transmitting continuously and force selection of output power level and channel number. We'd observed that the peak levels aren't greater than +8dBm limit.

The EUT was setup to ANSI C63.4, 2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

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Test Result:1. For EUT communicating with 802.11b Mode

CHANNEL FREQUENCY (GHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM Limit (dBm)	PASS/FAIL
2.412	-10.76	8.00	Pass
2.437	-11.77	8.00	Pass
2.462	-11.07	8.00	Pass

2. For EUT communicating with 802.11g Mode

CHANNEL FREQUENCY (GHz)	RF POWER LEVEL IN 3 KHz BW (dBm)	MAXIMUM Limit (dBm)	PASS/FAIL
2.412	-16.97	8.00	Pass
2.437	-17.33	8.00	Pass
2.462	-15.90	8.00	Pass

Conclusion:**The EUT meets the requirements of this section.**

Please refer to the graph and data as below:

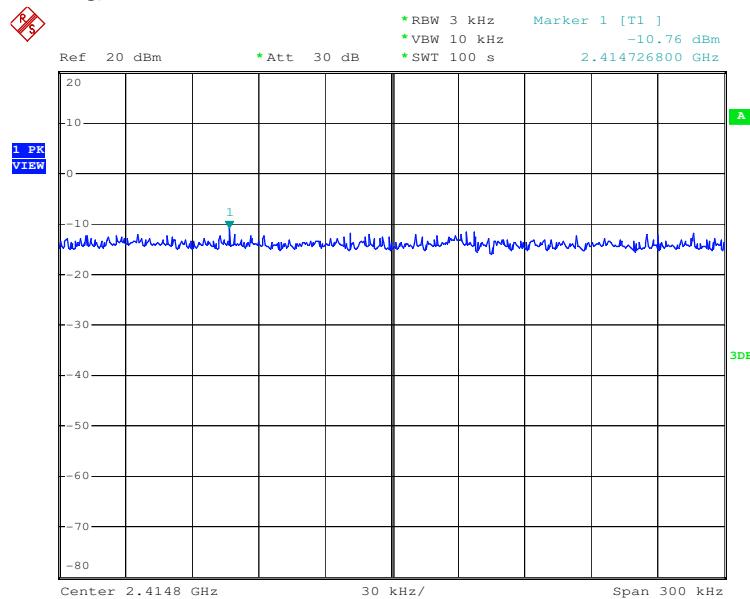
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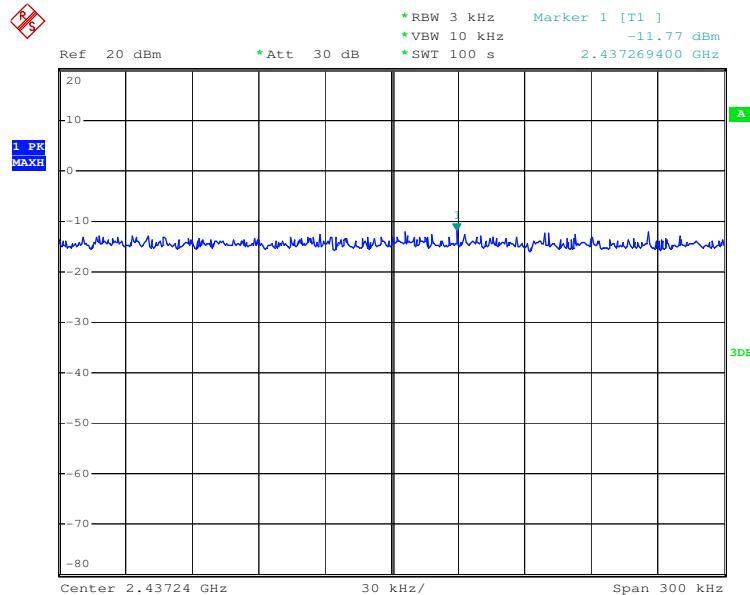
Test Result:

802.11b mode:

2.412GHz



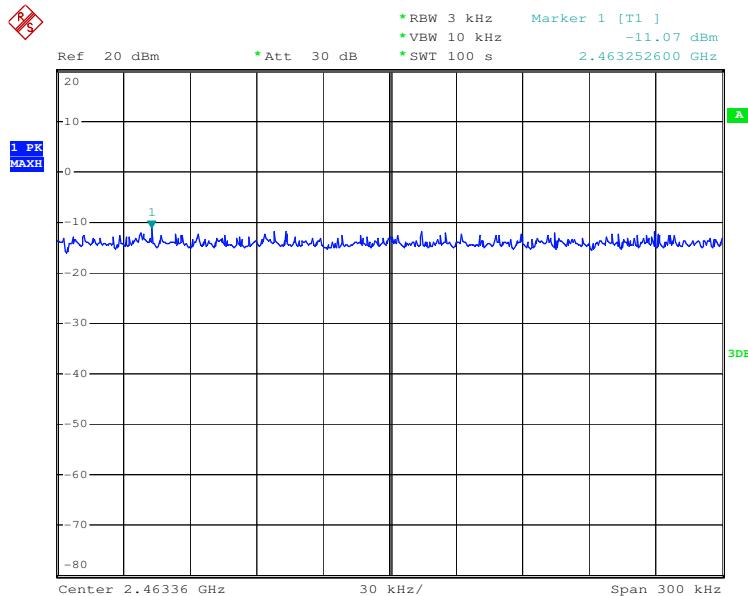
Date: 5.JAN.2009 16:07:41

2.437 GHz


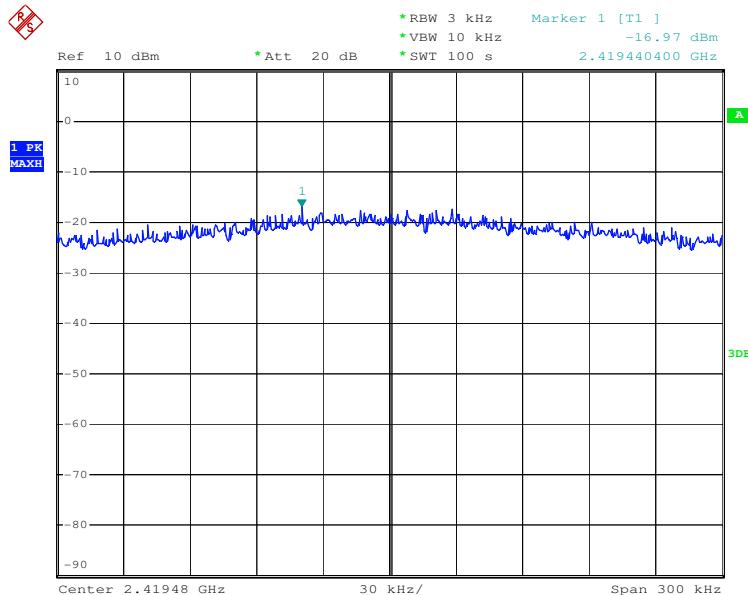
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2.462 GHz


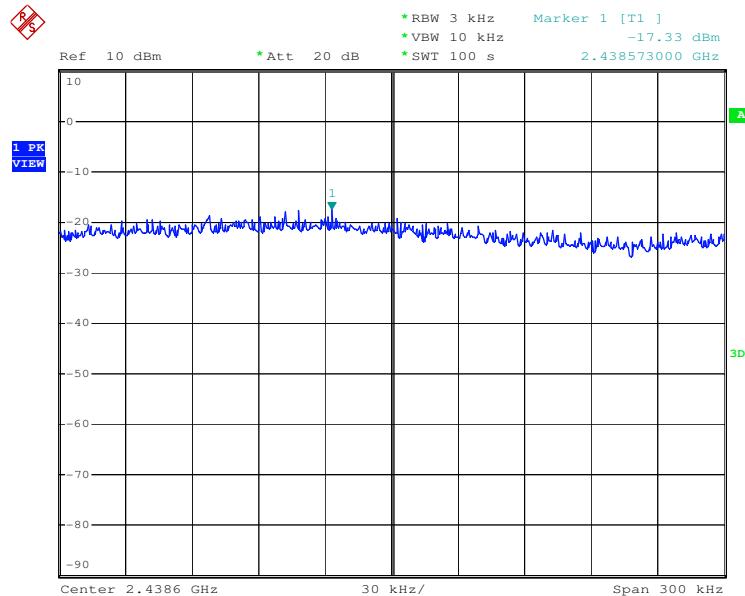
Date: 5.JAN.2009 16:45:39

**802.11g mode:
2.412 GHz**


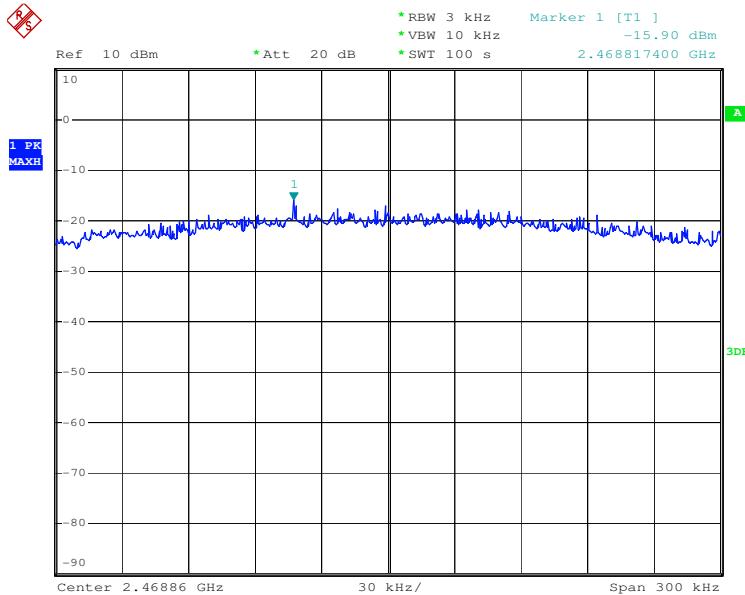
Date: 5.JAN.2009 17:40:35

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2.437 GHz


Date: 5.JAN.2009 17:58:17

2.462 GHz


Date: 5.JAN.2009 18:16:12

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5.3.7 Antenna Requirement

5.3.7.1 Standard requirement

15.203 requirement:

For intentional device. According to 15.203. 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.

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

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi 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 6 dBi.

5.3.7.2 EUT Antenna

The best case gain of the antenna is 0dBi.

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