FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

Stratus Plug Computer

Model: Stratus B02, STRATUS A01.X, STRATUS B01.X

Trade Name: Ionics

Issued to

IONICS EMS, INC

Plant 2, Block 2 & 3 Carmelray Industrial Part of the Philippines II, Barangay Tulo, Calamba City, Laguna, Philippines 4027

Issued by



Compliance Certification Services Inc.
No. 11, Wu-Gong 6th Rd., Wugu Industrial Park,
Taipei Hsien 248, Taiwan (R.O.C.)
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1. TEST RESULT CERTIFICATION

Applicant: IONICS EMS, INC

Plant 2, Block 2 & 3 Carmelray Industrial Part of the Philippines II,

Barangay Tulo, Calamba City, Laguna, Philippines 4027

Equipment Under Test: Stratus Plug Computer

Trade Name: Ionics

Model: Stratus B02, STRATUS A01.X, STRATUS B01.X

Date of Test: November 10 ~ December 31, 2010

APPLICABLE STANDARDS						
STANDARD TEST RESULT						
FCC 47 CFR Part 15 Subpart C	No non-compliance noted					
Deviation from Applicable Standard						
N/A						

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.4: 2003** and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

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

Approved by: Reviewed by:

Rex Lai
Section Manager
Compliance Continues Inc.

Compliance Certification Services Inc.

Gina Lo Section Manager

Compliance Certification Services Inc.

Gina Lo

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2. EUT DESCRIPTION

Product	Stratus Plug Computer					
Trade Name	Ionics					
Model Number	Stratus B02, STRATUS A01.X, STRATUS B01.X					
	See table below					
	Model Number	Description				
Model Discrepancy	STRATUS A01.X {X is for revision number of the particular model Where X is between 0-9 or nothing.}	STRATUS (STANDARD + WIFI)				
	STRATUS B01.X {X is for revision number of the particular model Where X is between 0-9 or nothing.}	STRATUS (STANDARD + WIFI + JTAG) (JTAG for software Function)				
Power Supply	Power from host device					
Frequency Range	2412 ~ 2462 MHz					
Transmit Power	IEEE 802.11b: 14.58 dBm IEEE 802.11g: 16.63 dBm					
Modulation Technique	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (QPSK, BPSK, 16-QAM, 64-QAM)					
Transmit Data Rate	IEEE 802.11b Mode: 11, 5.5, 2, 1 Mbps IEEE 802.11g Mode: 54, 48, 36, 24, 18, 12, 9, 6Mbps					
Number of Channels	s 11 Channels					
Antenna Specification	nna Specification Gain: 2 dBi					
Antenna Designation						

Remark:

- 1. The sample selected for test was production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>Y6SSTRTSWFX00</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 Part 15.207, 15.209 and 15.247.

3.1EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2003.

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3.4FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(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 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	$\binom{2}{}$
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

3.5DESCRIPTION OF TEST MODES

The EUT (model: Stratus B02) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz and power line conducted emissions below 30MHz, which worst case was in normal link mode only.

IEEE 802.11b mode:

Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 1Mbps data rate were chosen for the final testing.

IEEE 802.11g mode:

Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 6Mbps data rate were chosen for the final testing.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

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4. INSTRUMENT CALIBRATION

4.1MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

4.2MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.

Conducted Emissions Test Site							
Name of Equipment Manufacturer Model Serial Number Calibration Due							
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/03/2011			
Power Meter	Agilent	E4416A	GB41291611	09/26/2011			
Power Sensor	Agilent	E9327A	US40441097	09/16/2011			

3M Semi Anechoic Chamber						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	E4446A	US42510252	10/25/2011		
EMI Test Receiver	R&S	ESCI	100064	02/04/2011		
Pre-Amplifier	Mini-Circults	ZFL-1000LN	SF350700823	01/13/2011		
Pre-Amplifier	MITEQ	AFS44-00102650- 42-10P-44	1415367	11/19/2011		
Bilog Antenna	Sunol Sciences	JB3	A030105	09/10/2011		
Horn Antenna	EMCO	3117	00055165	12/06/2011		
Loop Antenna	EMCO	6502	8905/2356	06/10/2013		
Turn Table	CCS	CC-T-1F	N/A	N.C.R		
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R		
Controller	CCS	CC-C-1F	N/A	N.C.R		
Site NSA	CCS	N/A	N/A	12/30/2011		
Test S/W		EZ-EMC ((CCS-3A1RE)			

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Powerline Conducted Emissions Test Site							
Name of Equipment Manufacturer Model Serial Number Calibration D							
TEST RECEIVER	R&S	ESCI	100234	06/13/2011			
LISN (EUT)	FCC	FCC-LISN-50-32-2	08009	03/25/2011			
LISN	EMCO	3825/2	1382	01/10/2012			
BNC CABLE	MIYAZAKI	5D-FB	BNC B3	08/10/2011			
Pulse Limiter	R&S	ESH3-Z2	100374	08/19/2011			
THERMO- HYGRO METER	TOP	HA-202	9303-3	01/31/2011			

4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Powerline Conducted Emission	+/- 1.1089
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0606
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9979
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5790
3M Semi Anechoic Chamber / 8G~18G	+/- 2.5928
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7212
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9520

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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5. FACILITIES AND ACCREDITATIONS

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

5.1FACILITIES

All measurement facilities used to collect the measurement data are located at
No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C. Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
Remark: The Powerline Conducted Emissions was tested at Compliance Certification Services. (Hsintien Lab.) The test equipments were listed in page 9 and the test data were recorded in page 53~54.
No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

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5.3TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC 3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements		FCC MRA: TW1039
Taiwan	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12,2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11		Testing Laboratory 1309
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	Canada IC 2324G-1 IC 2324G-2

^{*} No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.

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6. SETUP OF EQUIPMENT UNDER TEST

6.1SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

Date of Issue: January 10, 2011

6.2SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1	Notebook	НР	2210B	CNV7472KG5	DOC BSMI: R33001	USB: Shielded, 0.5m with a core LAN: Unshielded, 1.0m with a core	Unshielded, 1.8m
2	Notebook PC	НР	dv6-1332TX	CNF9491GM9	PD9112BNHU	N/A	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
3	USB thumbdrive	U3 Smart	U3 Smart Intuix	53710401	N/A	N/A	N/A
4	Light bulb	Generic light bulb	110V Light Bulb	not available	N/A	Unshielded, 1.5m	N/A
5	Z-wave Receiver	Leviton	RZP03-1LW	206A21	QGH-RZP03	N/A	N/A

Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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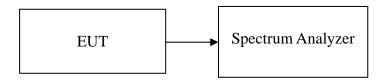
7. FCC PART 15.247 REQUIREMENTS

7.16DB BANDWIDTH

LIMIT

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100kHz, VBW = RBW, Span = 50MHz, Sweep = auto.
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

TEST RESULTS

No non-compliance noted.

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Test mode: IEEE 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	9.92		PASS
Mid	2437	9.92	>500	PASS
High	2462	9.75		PASS

Test mode: IEEE 802.11g

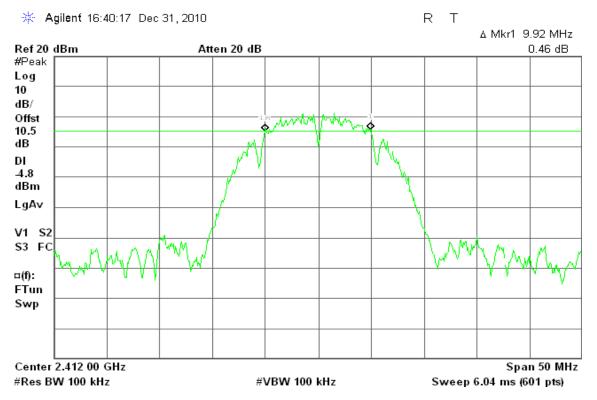
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.50		PASS
Mid	2437	16.50	>500	PASS
High	2462	16.58		PASS

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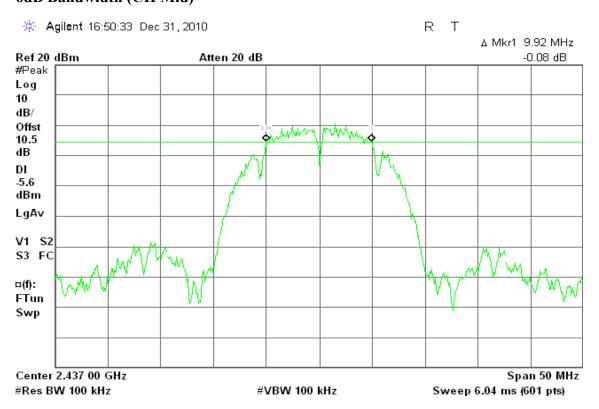
Test Plot

IEEE 802.11b

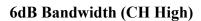
6dB Bandwidth (CH Low)

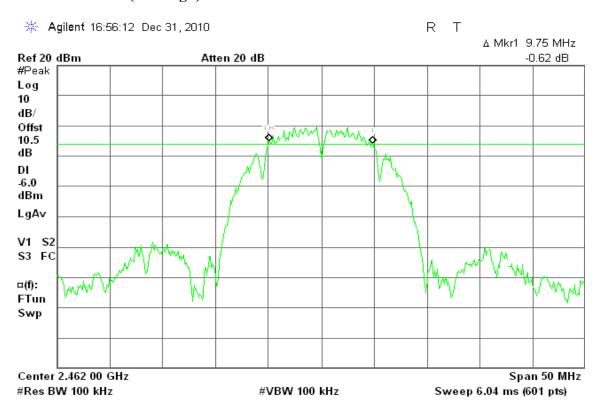


6dB Bandwidth (CH Mid)



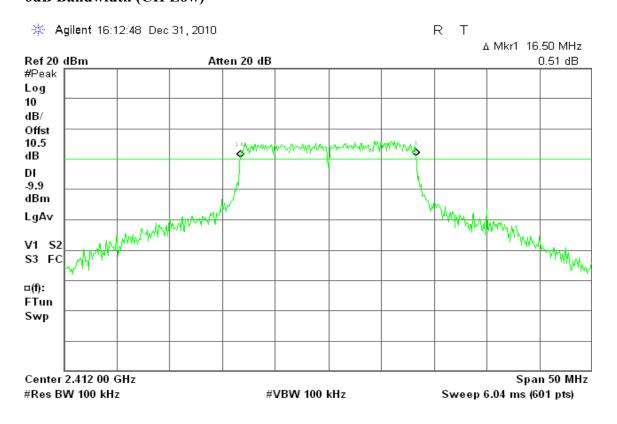
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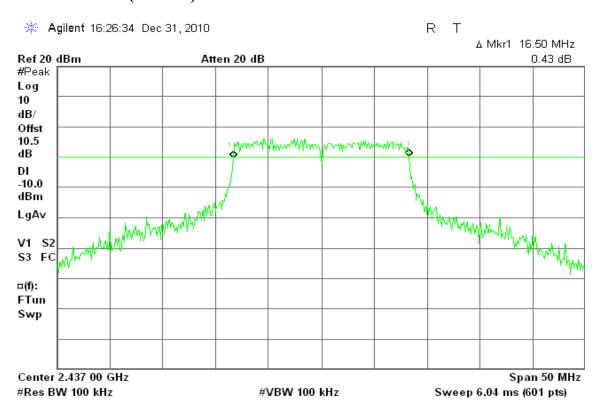
IEEE 802.11g

6dB Bandwidth (CH Low)

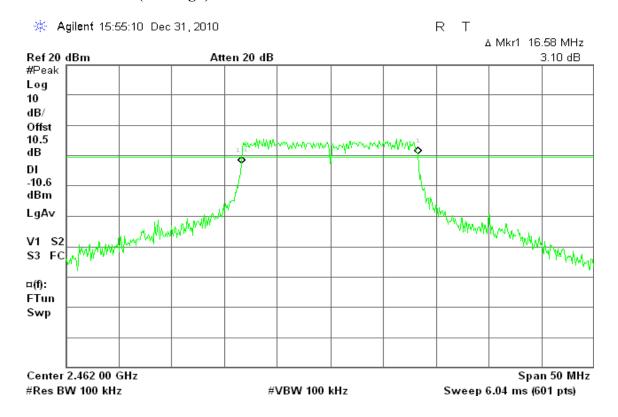


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6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



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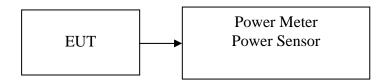
7.2PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

- 1. According to \$15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted.

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Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	14.58	0.02871		PASS
Mid	2437	14.12	0.02582	1.00	PASS
High	2462	13.15	0.02065		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	16.47	0.04436		PASS
Mid	2437	16.63	0.04603	1.00	PASS
High	2462	16.61	0.04581		PASS

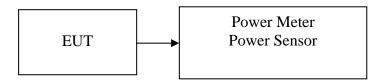
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7.3AVERAGE POWER

LIMIT

None; for reporting purposes only.

Test Configuration



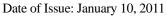
TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

TEST RESULTS

No non-compliance noted.

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Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)
Low	2412	12.43
Mid	2437	11.82
High	2462	10.65

Test mode: IEEE 802.11g mode

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Channel	Frequency (MHz)	Output Power (dBm)			
Low	2412	11.37			
Mid	2437	11.13			
High	2462	10.43			

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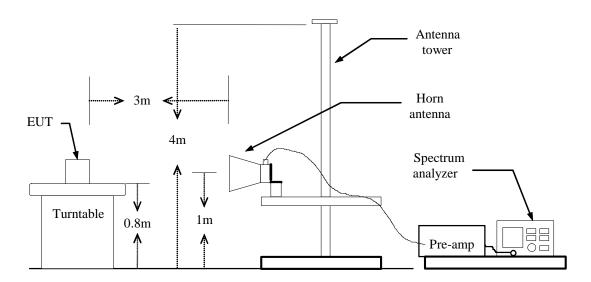


7.4BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

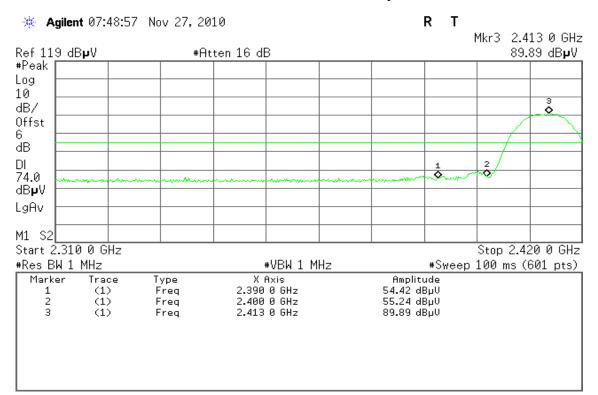
TEST RESULTS

Refer to attach spectrum analyzer data chart.

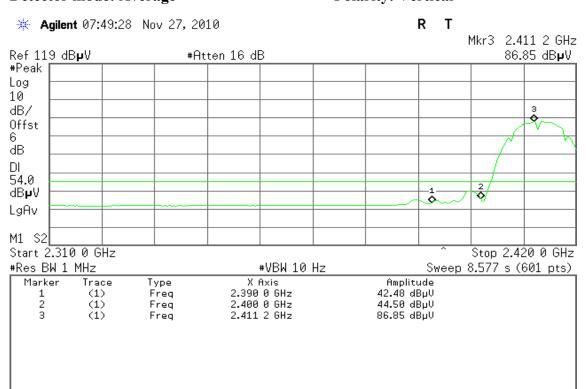
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Band Edges (IEEE 802.11b / CH Low)

Detector mode: Peak Polarity: Vertical



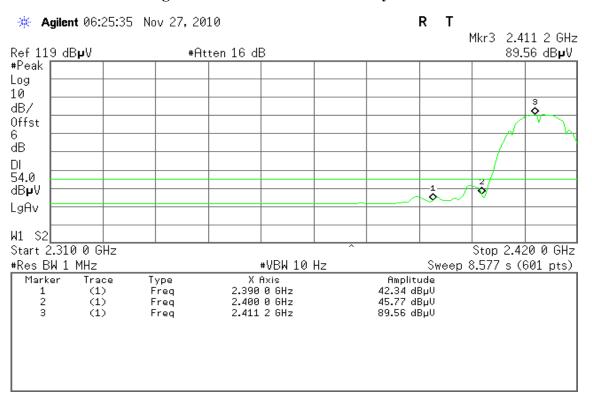
Detector mode: Average Polarity: Vertical



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Detector mode: Peak Polarity: Horizontal R Τ * Agilent 06:26:40 Nov 27, 2010 Mkr3 2.413 0 GHz Ref 119 dBµV #Atten 16 dB 92.24 dBpV #Peak Log 10 ø dB/ Offst 6 dΒ DΙ 74.0 dB₽V LgAv M1 S2 Stop 2.420 0 GHz Start 2.310 0 GHz #Res BW 1 MHz #VBW 1 MHz #Sweep 100 ms (601 pts) Marker Trace Type X Axis Amplitude 54.22 dBµV 56.14 dBµV 2.390 0 GHz (1) Freq (1) Freq 2.400 0 GHz 3 (1) Freq 2.413 0 GHz 92.24 dBµV

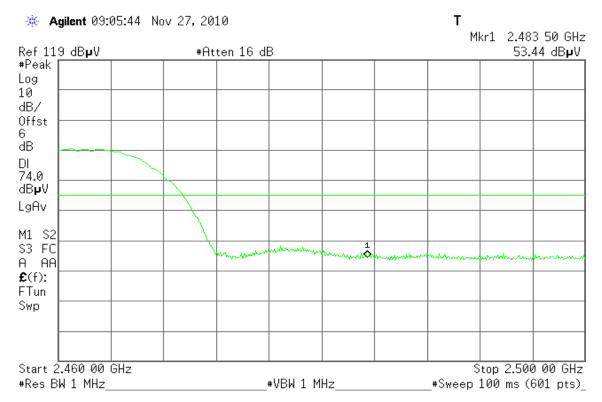
Detector mode: Average Polarity: Horizontal



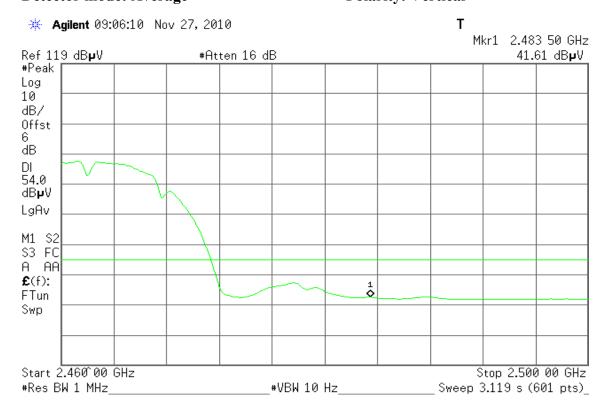
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Band Edges (IEEE 802.11b / CH High)

Detector mode: Peak Polarity: Vertical



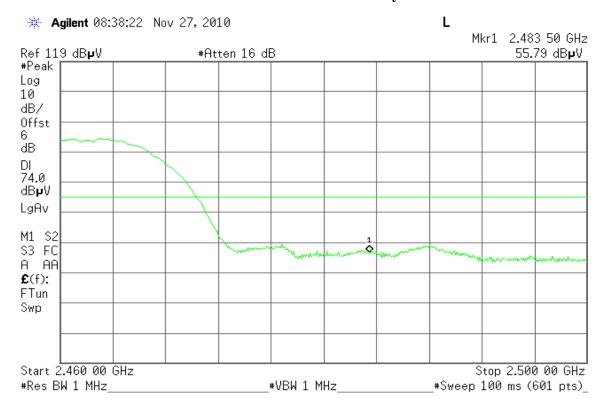
Detector mode: Average Polarity: Vertical



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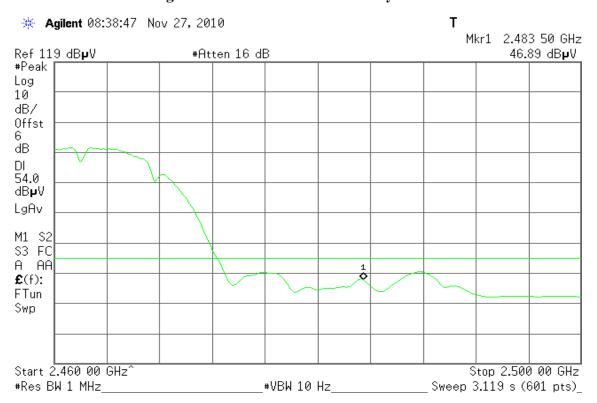
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

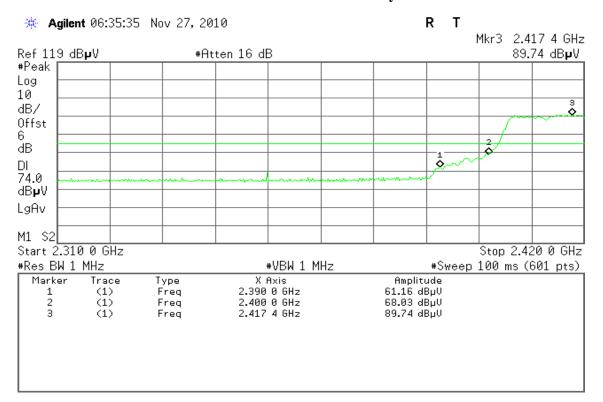
Polarity: Horizontal



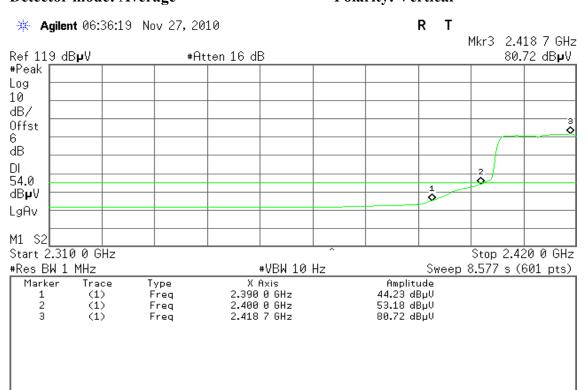
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Band Edges (IEEE 802.11g / CH Low)

Detector mode: Peak Polarity: Vertical

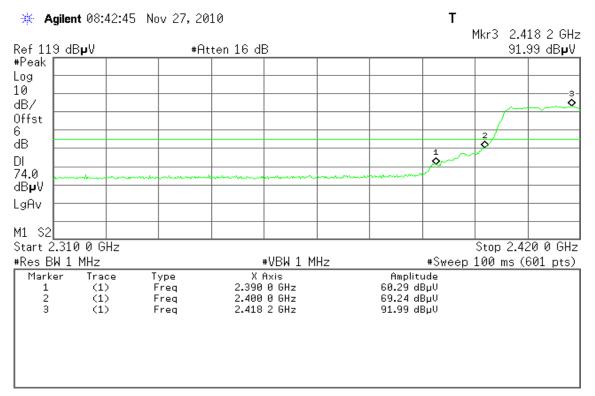


Detector mode: Average Polarity: Vertical

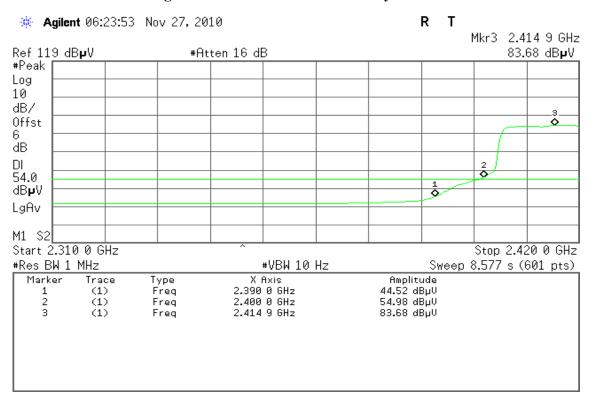


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Detector mode: Peak Polarity: Horizontal



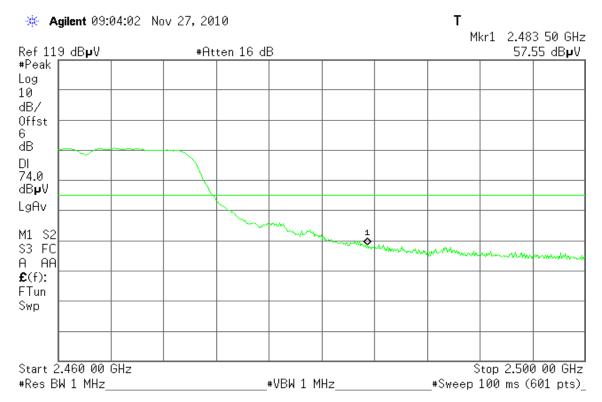
Detector mode: Average Polarity: Horizontal



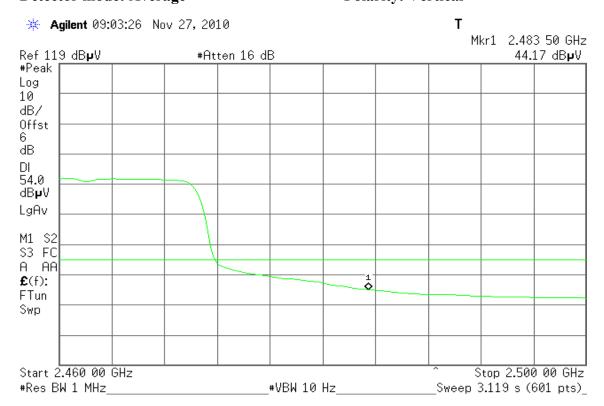
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Band Edges (IEEE 802.11g / CH High)

Detector mode: Peak Polarity: Vertical

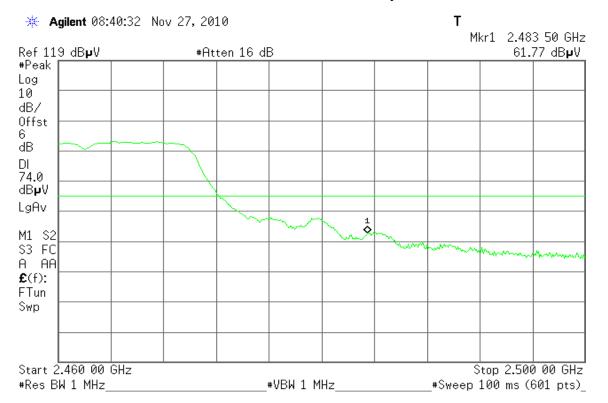


Detector mode: Average Polarity: Vertical



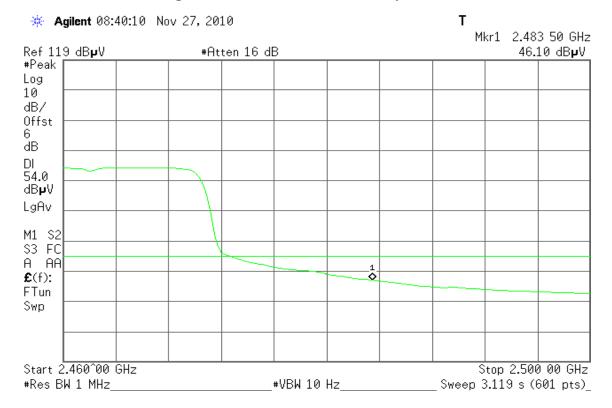
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Detector mode: Peak Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

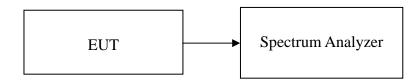


7.5PEAK POWER SPECTRAL DENSITY

LIMIT

- 1. According to §15.247(e), for digitally modulated systems, the 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.
- 2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.

 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

No non-compliance noted.

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Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-16.57		PASS
Mid	2437	-17.34	8.00	PASS
High	2462	-16.76		PASS

Test mode: IEEE 802.11g

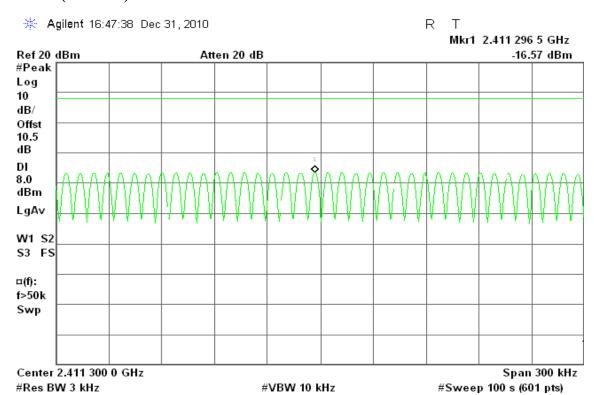
Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-15.87		PASS
Mid	2437	-16.17	8.00	PASS
High	2462	-16.94		PASS

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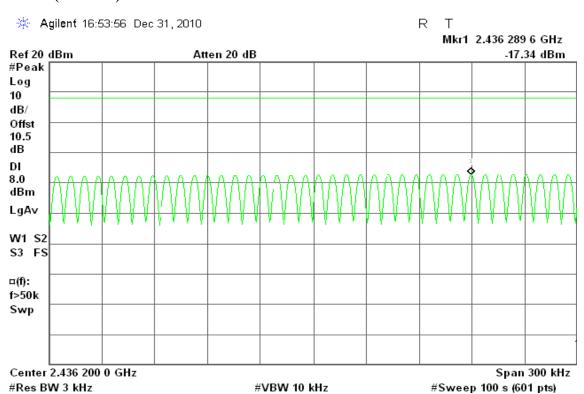
Test Plot

IEEE 802.11b

PPSD (CH Low)

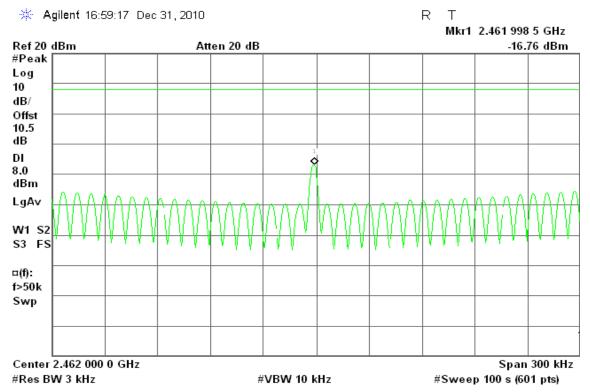


PPSD (CH Mid)



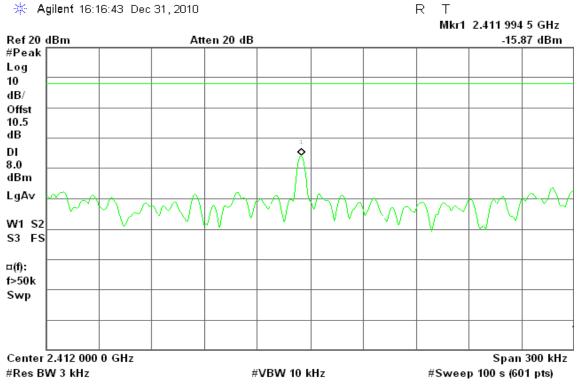
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PPSD (CH High)



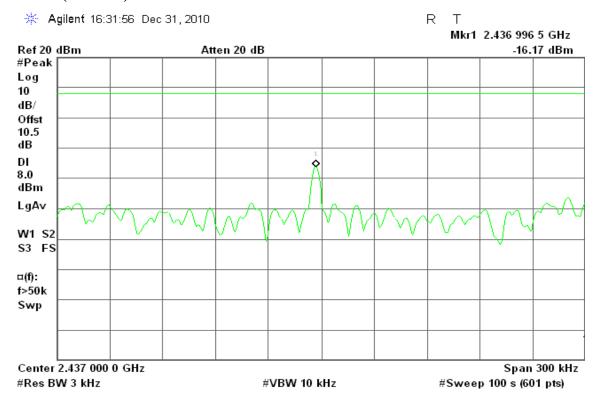
IEEE 802.11g

PPSD (CH Low)

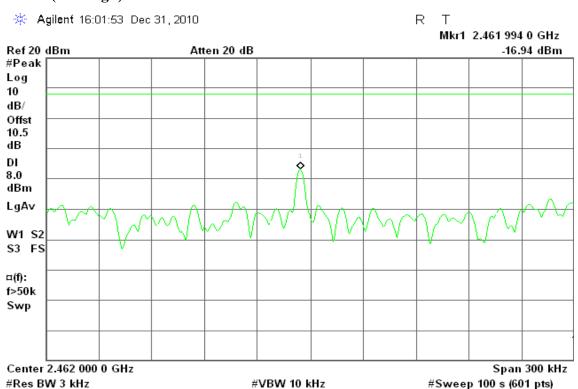


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PPSD (CH Mid)



PPSD (CH High)



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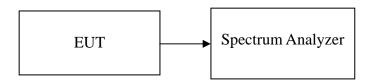
7.6SPURIOUS EMISSIONS

7.6.1 Conducted Measurement

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

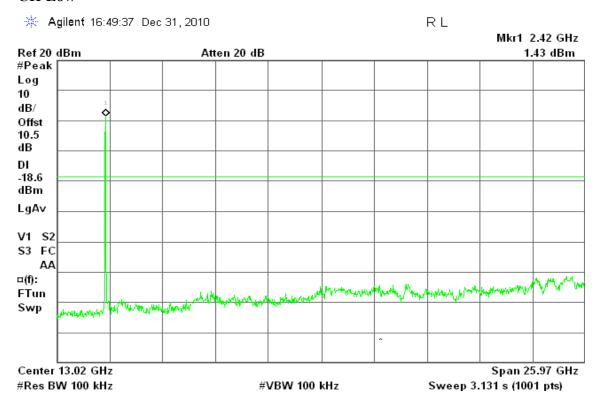
No non-compliance noted.

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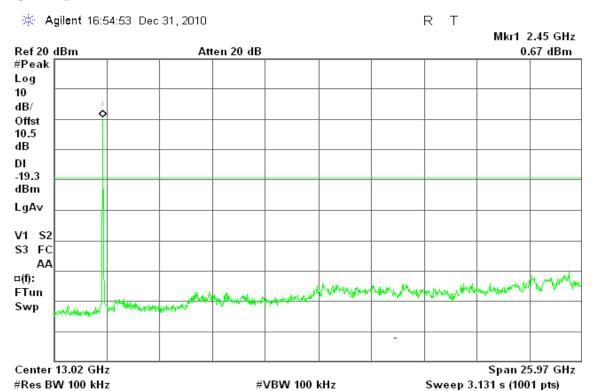
Test Plot

IEEE 802.11b

CH Low



CH Mid



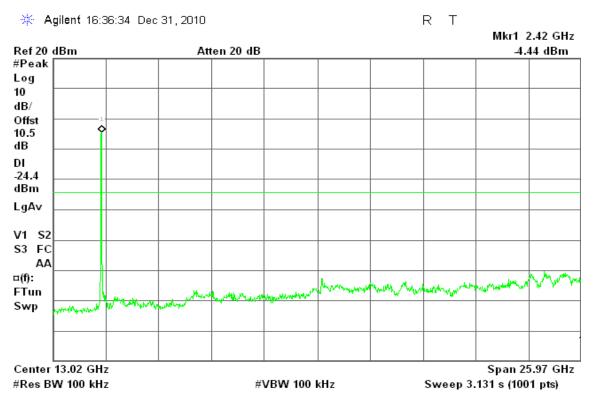
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CH High



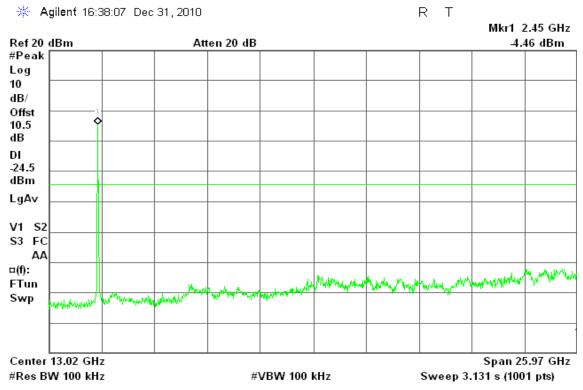
IEEE 802.11g

CH Low

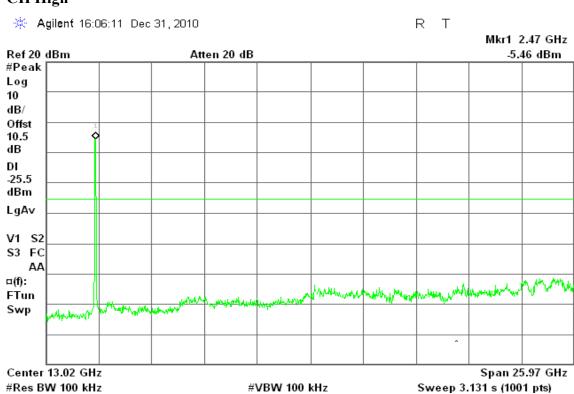


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CH Mid



CH High



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7.6.2 Radiated Emissions

LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

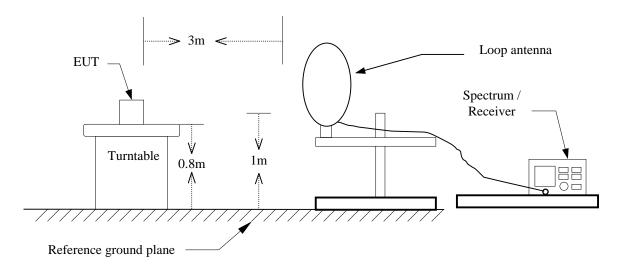
2. In the emission table above, the tighter limit applies at the band edges.

Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBμV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

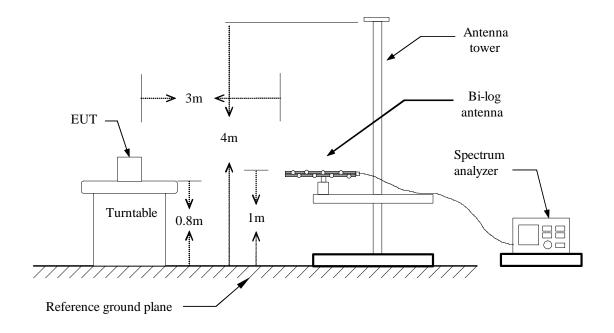
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Test Configuration

$9kHz \sim 30MHz$



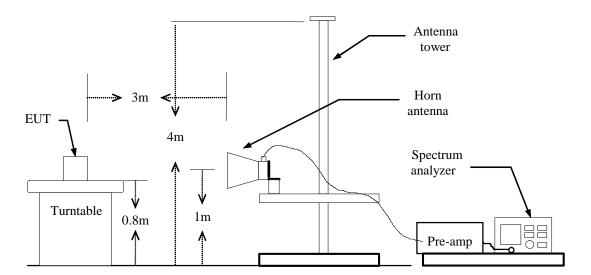
$30MHz \sim 1GHz$



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Above 1 GHz



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TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

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Below 1 GHz

Operation Mode: Normal Link **Test Date:** December 29, 2010

Temperature: 26°C **Tested by:** Will Lee

Humidity: 60 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
41.0500	53.37	-19.81	33.56	40.00	-6.44	QP	V
375.0200	54.39	-14.86	39.53	46.00	-6.47	QP	V
399.9860	44.97	-14.22	30.75	46.00	-15.25	QP	V
499.9860	49.36	-12.11	37.25	46.00	-8.75	QP	V
549.9860	54.30	-11.31	42.99	46.00	-3.01	QP	V
699.9860	48.19	-9.27	38.92	46.00	-7.08	QP	V
350.0020	51.40	-15.50	35.90	46.00	-10.10	QP	Н
375.0257	57.74	-14.86	42.88	46.00	-3.12	QP	Н
398.7098	44.00	-14.25	29.75	46.00	-16.25	QP	Н
549.9960	52.11	-11.31	40.80	46.00	-5.20	QP	Н
699.9895	53.44	-9.27	44.17	46.00	-1.83	QP	Н
799.9755	49.17	-8.04	41.13	46.00	-4.87	QP	Н

Remark:

- 1. No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
- 3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Margin(dB) = Remark result(dBuV/m) Quasi-peak limit(dBuV/m).

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Above 1 GHz

Operation Mode: IEEE 802.11b / TX / CH Low **Test Date:** November 29, 2010

Temperature: 21°C **Tested by:** Wolf Huang

Humidity: 51 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
1793.33	60.10	43.39	-6.06	54.04	37.33	74.00	54.00	-16.67	AVG	V
1900.00	61.20	44.44	-5.07	56.13	39.37	74.00	54.00	-14.63	AVG	V
2000.00	58.26	44.42	-4.15	54.11	40.27	74.00	54.00	-13.73	AVG	V
2186.67	58.10	44.65	-3.59	54.50	41.06	74.00	54.00	-12.94	AVG	V
2783.33	61.73	43.85	-1.83	59.90	42.02	74.00	54.00	-11.98	AVG	V
N/A										
1896.67	61.61	44.30	-5.10	56.51	39.20	74.00	54.00	-14.80	AVG	Н
2180.00	59.30	44.00	-3.61	55.68	40.39	74.00	54.00	-13.61	AVG	Н
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin(dB) = Remark result(dBuV/m) Average limit(dBuV/m).

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Operation Mode: IEEE 802.11b / TX / CH Mid **Test Date:** November 29, 2010

Temperature: 21°C **Tested by:** Wolf Huang **Humidity:** 51 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
1796.67	60.23	44.25	-6.02	54.21	38.23	74.00	54.00	-15.77	AVG	V
1983.33	62.65	45.12	-4.30	58.35	40.82	74.00	54.00	-13.18	AVG	V
2083.33	65.06	44.85	-3.90	61.16	40.95	74.00	54.00	-13.05	AVG	V
2183.33	61.42	43.98	-3.60	57.82	40.38	74.00	54.00	-13.62	AVG	V
2800.00	59.72	44.74	-1.78	57.93	42.96	74.00	54.00	-11.04	AVG	V
4883.33	49.81		1.16	50.97		74.00	54.00	-3.03	Peak	V
1293.33	59.94		-9.10	50.83		74.00	54.00	-3.17	Peak	Н
1586.67	59.24		-7.96	51.27		74.00	54.00	-2.73	Peak	Н
1990.00	58.86	44.22	-4.24	54.62	39.98	74.00	54.00	-14.02	AVG	Н
4866.67	49.62		1.16	50.78		74.00	54.00	-3.22	Peak	Н
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin(dB) = Remark result(dBuV/m) Average limit(dBuV/m).

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Operation Mode: IEEE 802.11b / TX / CH High **Test Date:** November 29, 2010

Temperature: 21°C **Tested by:** Wolf Huang **Humidity:** 51 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
1493.33	59.49		-8.77	50.72		74.00	54.00	-3.28	Peak	V
1793.33	61.99	44.25	-6.06	55.94	38.19	74.00	54.00	-15.81	AVG	V
2000.00	60.10	44.69	-4.15	55.95	40.54	74.00	54.00	-13.46	AVG	V
2793.33	58.95	45.36	-1.80	57.15	43.56	74.00	54.00	-10.44	AVG	V
N/A										
1600.00	59.48		-7.84	51.64		74.00	54.00	-2.36	Peak	Н
1993.33	58.22	44.10	-4.21	54.01	39.89	74.00	54.00	-14.11	AVG	Н
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin(dB) = Remark result(dBuV/m) Average limit(dBuV/m).

Operation Mode: IEEE 802.11g / TX / CH Low **Test Date:** November 29, 2010

Temperature: 21°C **Tested by:** Wolf Huang **Humidity:** 51 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
1783.33	62.37	44.95	-6.15	56.22	38.80	74.00	54.00	-15.20	AVG	V
1986.67	58.62	44.02	-4.27	54.35	39.75	74.00	54.00	-14.25	AVG	V
2083.33	62.31	44.52	-3.90	58.41	40.62	74.00	54.00	-13.38	AVG	V
2786.67	58.67	44.15	-1.82	56.85	42.33	74.00	54.00	-11.67	AVG	V
N/A										
1890.00	59.35	44.57	-5.16	54.19	39.41	74.00	54.00	-14.59	AVG	Н
1996.67	62.11	44.95	-4.18	57.93	40.77	74.00	54.00	-13.23	AVG	Н
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin(dB) = Remark result(dBuV/m) Average limit(dBuV/m).

Operation Mode: IEEE 802.11g / TX / CH Mid **Test Date:** November 29, 2010

Temperature: 21°C Tested by: Wolf Huang
Humidity: 51 % RH Polarity: Ver. / Hor.

Frequency (MHz)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
1990.00	61.46	44.65	-4.24	57.22	40.41	74.00	54.00	-13.59	AVG	V
2780.00	60.69	45.21	-1.84	58.85	43.37	74.00	54.00	-10.63	AVG	V
N/A										
1460.00	58.73		-8.83	49.90		74.00	54.00	-4.10	Peak	Н
N/A	30.73		0.03	47.70		74.00	34.00	4.10	Teak	- 11

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin(dB) = Remark result(dBuV/m) Average limit(dBuV/m).

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Operation Mode: IEEE 802.11g / TX / CH High **Test Date:** November 29, 2010

Temperature: 21°C **Tested by:** Wolf Huang **Humidity:** 51 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark	Ant.Pol. (H/V)
1896.67	59.97	44.25	-5.10	54.86	39.15	74.00	54.00	-14.85	AVG	V
2196.67	60.75	44.78	-3.56	57.18	41.22	74.00	54.00	-12.78	AVG	V
2770.00	59.45	44.17	-1.87	57.58	42.30	74.00	54.00	-11.70	AVG	V
N/A										
1883.33	63.13	44.10	-5.23	57.91	38.87	74.00	54.00	-15.13	AVG	Н
1990.00	58.40	44.78	-4.24	54.16	40.54	74.00	54.00	-13.46	AVG	Н
2800.00	58.53	45.10	-1.78	56.75	43.32	74.00	54.00	-10.68	AVG	Н
N/A										

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
- 3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
- 4. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 6. Margin(dB) = Remark result(dBuV/m) Average limit(dBuV/m).

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7.7POWERLINE CONDUCTED EMISSIONS

LIMIT

According to $\S15.207(a)$, except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dΒμV)					
(MHZ)	Quasi-peak	Average				
0.15 to 0.50	66 to 56*	56 to 46*				
0.50 to 5	56	46				
5 to 30	60	50				

Test Configuration

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

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TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Test Data

Operation Mode: Normal Link **Test Date:** November 10, 2010

Temperature: 23°C **Tested by:** Webber Chung

Humidity: 56% RH

Frequency (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.1580	47.96	19.01	10.84	58.80	29.85	65.56	55.56	-6.76	-25.71	L1
0.1819	48.15	36.83	10.83	58.98	47.66	64.39	54.37	-5.41	-6.71	L1
0.2540	39.99		10.79	50.78		61.62		-10.84		L1
0.6140	40.19	20.76	10.70	50.89	31.46	56.00	46.00	-5.11	-14.54	L1
0.8940	36.96	25.18	10.68	47.64	35.86	56.00	46.00	-8.36	-10.14	L1
3.7740	37.12	21.26	10.71	47.83	31.97	56.00	46.00	-8.17	-14.03	L1
22.7020	39.27	29.02	11.23	50.50	40.25	60.00	50.00	-9.50	-9.75	L1
0.1660	48.70	16.63	10.63	59.33	27.26	65.15	55.15	-5.82	-27.89	L2
0.1819	48.45	35.82	10.65	59.10	46.47	64.39	54.37	-5.29	-7.90	L2
0.2260	43.20	22.60	10.65	53.85	33.25	62.59	52.59	-8.74	-19.34	L2
0.2420	41.84	22.34	10.64	52.48	32.98	62.02	52.02	-9.54	-19.04	L2
0.5780	39.08	24.29	10.62	49.70	34.91	56.00	46.00	-6.30	-11.09	L2
3.8940	37.28	20.75	10.64	47.92	31.39	56.00	46.00	-8.08	-14.61	L2
22.3060	36.80		11.16	47.96		60.00		-12.04		L2

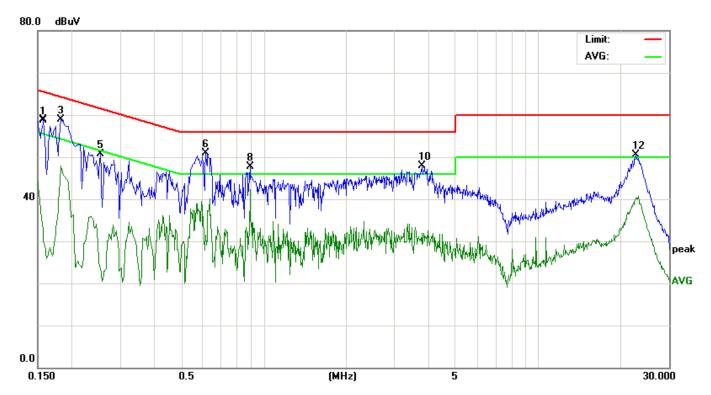
Remark:

- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4. $L1 = Line\ One\ (Live\ Line) / L2 = Line\ Two\ (Neutral\ Line)$
- 5. "-" means Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.

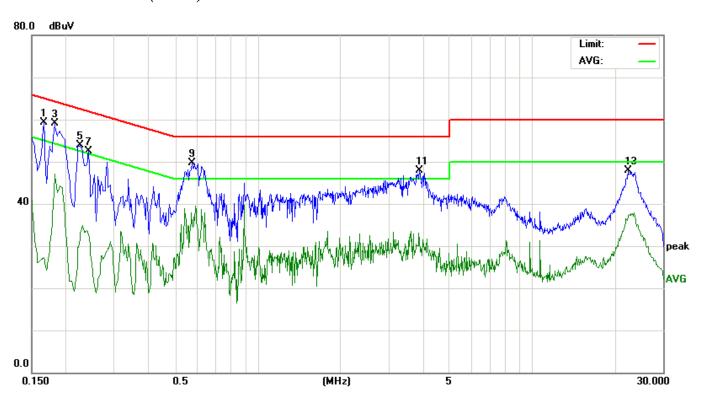
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Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



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