# FCC Part 15C (WIFI Portion)

# **Measurement and Test Report**

For

# Matsunichi Digital Development (Shenzhen) Co., Ltd

F/22, Matsunichi Building, No.9996, Shennan Boulevard, Nanshan District,

Shenzhen, China

FCC ID: ZDRTC979

Report Concerns:	Equipment Type:	
Original Report	Tablet PC	
Model:	<u>TC979</u>	
Report No.:	STR11108122I-1	
Test Date:	2011-10-19 to 2011-11-12	
Issue Date:	<u>2011-11-18</u>	
Tested By:	Silin Chen / Engineer	Silim chep Lahm peny Jumbyso
Reviewed By:	Lahm Peng / EMC Manager	Lehm peny
Approved & Authorized By:	Jandy so / PSQ Manager	June1980
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SEM.Test Compliance Service Co., Ltd 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C. (518101)		

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by SEM.Test Compliance Service Co., Ltd.

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#### 1. GENERAL INFORMATION

# 1.1 Product Description for Equipment Under Test (EUT)

**Client Information** 

Applicant: Matsunichi Digital Development (Shenzhen) Co., Ltd
Address of applicant: F/22, Matsunichi Building, No.9996, Shennan Boulevard,

Nanshan District, Shenzhen, China

Manufacturer: Matsunichi Digital Development (Shenzhen) Co., Ltd

Address of manufacturer: No.5, KeJi Road, PingShan Industrial Estate, PingShan New

District, Shenzhen, China

**General Description of E.U.T** 

Items	Description
EUT Description:	Tablet PC
Trade Name:	Le Pan
Model No.:	TC979
Add Model:	Le Pan II
Dower Cumbu	Input 100-240V/50/60Hz Output 5V DC Adaptor
Power Supply:	DC 3.7V Battery
Rated Voltage:	Battery 3.7V
Battery Capacity:	6800mAh
Hardware Version:	TC979_V0.2
Software Version:	TC979 3.2 HTK75.User.V109
RF Output Power	Max.18.59dBm (Conducted)
Antenna Gain:	-5.76dBi
Frequency range:	2412MHz~2462MHz
Number of channels:	11
Channel Separation:	5MHz
Type of Antenna:	PIFA

Note: The test data is gathered from a production sample, provided by the manufacture. The others models listed in the report have different appearance only of TC979 without circuit and electronic construction changed, declared by the manufacturer.

#### 1.2 Test Standards

The following report is prepared on behalf of the Matsunichi Digital Development (Shenzhen) Co., Ltd in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Model: TC979

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

#### 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted with Low Channel, Middle Channel and High Channel, accordingly in reference to the Operating Instructions.

#### 1.4 Test Facility

#### • FCC – Registration No.: 994117

SEM.Test Compliance Services Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 994117.

#### • Industry Canada (IC) Registration No.: 7673A

The 3m Semi-anechoic chamber of SEM.Test Compliance Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 7673A.

#### • CNAS Registration No.: L4062

Shenzhen SEM.Test Electronics Service Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C (518101)

#### 1.5 EUT Exercise Software

The EUT exercise program used during the testing was designed to exercise the system components.

#### 1.6 Accessories Equipment List and Details

Description	Manufacturer	Model	Serial Number
Notebook	ASUS	X50R	74N0AS297138

# 1.7 EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	1.2	Shielded	Without Core

# 2. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§ 15.203; § 15.247(c)(1)(i)	Antenna Requirement	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	6 dB Bandwidth	Compliant
§ 15.247(b)(3)	Power Output	Compliant
§ 15.209(a)(d)	Radiated Emission	Compliant
§ 15.247(d)	Band edge	Compliant
§ 15.207(a)	Conducted Emission	Compliant

# 3. §15.203 - ANTENNA REQUIREMENT

# 3.1 Standard Applicable

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

### 3.2 Test Result

This product has a integral antenna, fulfill the requirement of this section.

# 4. POWER SPECTRAL DENSITY

# 4.1 Standard Applicable

According to 15.247(a)(1)(iii), 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.

Model: TC979

# 4.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2010-12-20	2011-12-19
Attenuator	ATTEN	ATS100-4-20	/	2010-12-20	2011-12-19

**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

#### **4.3 Test Procedure**

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set center frequency of spectrum analyzer = operating frequency.
- 3. Set the spectrum analyzer as RBW, VBW=3kHz, Span = 30MHz.
- 4. Repeat above procedures until all frequency measured was complete.

### **4.4 Environmental Conditions**

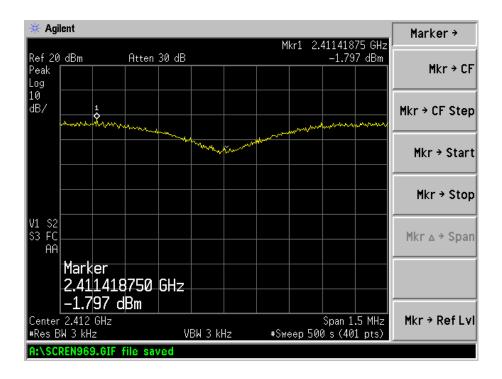
Temperature:	20° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

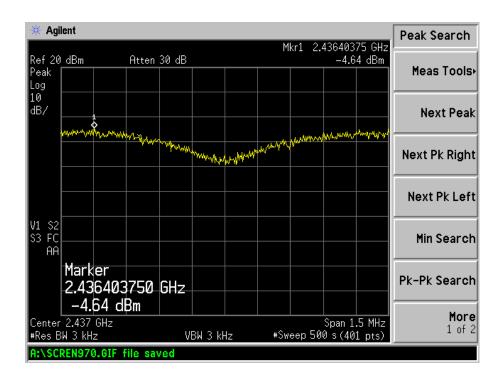
# **4.5 Summary of Test Results/Plots**

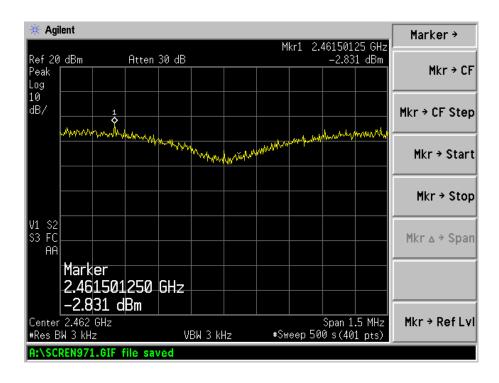
Test mode	Test channel	Reading dBm/3kHz	Limit dBm/3kHz	
	Low channel (2412MHz)	-1.797	8	
802.11b	Middle channel (2437MHz)	-4.640	8	
	High channel (2462MHz)	-2.831	8	
	Low channel (2412MHz)	-6.608	8	
802.11g	Middle channel (2437MHz)	-7.670	8	
	High channel (2462MHz)	-5.550	8	
	Low channel (2412MHz)	-5.516	8	
802.11n	Middle channel (2437MHz)	-7.345	8	
	High channel (2462MHz)	-6.489	8	

For 802.11b

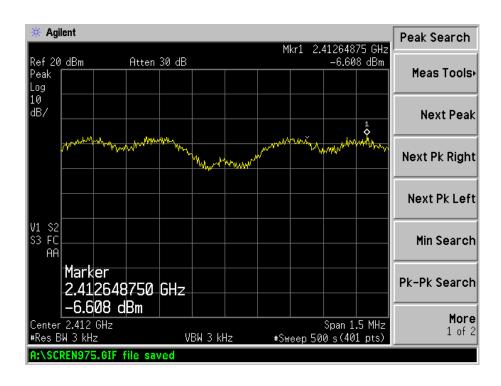
#### Low Channel:



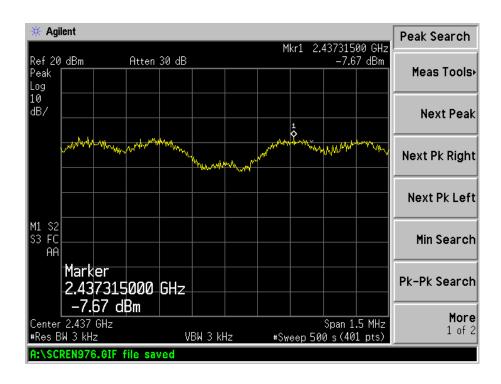


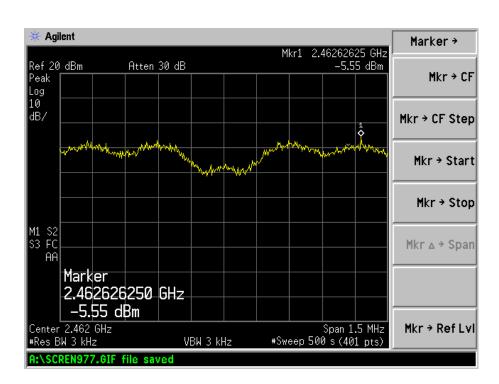


For 802.11g Low Channel:



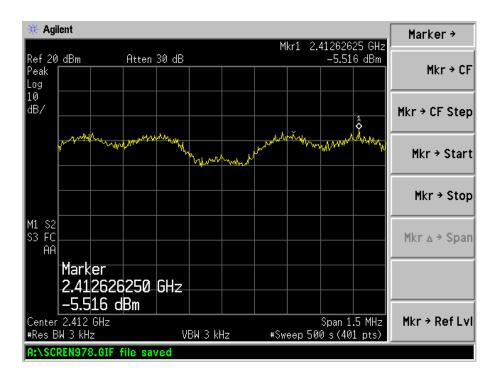
#### Middle Channel:

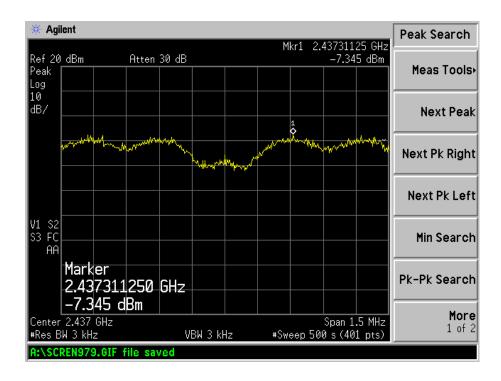


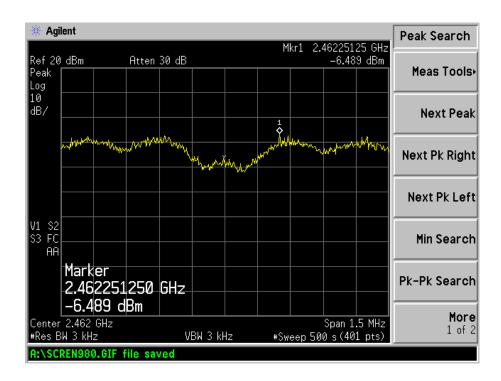


For 802.11n

#### Low Channel:







### 5. 6-dB BANDWIDTH

# **5.1 Standard Applicable**

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.

### **5.2 Test Equipment List and Details**

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2010-12-20	2011-12-19
Attenuator	ATTEN	ATS100-4-20	/	2010-12-20	2011-12-19

**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

#### **5.3 Test Procedure**

- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set center frequency of spectrum analyzer = operating frequency.
- 3. The spectrum analyzer as RBW=300kHz (1 % of Bandwidth.), Sweep=auto
- 4. Mark the peak frequency and -6dB (upper and lower) frequency.

#### **5.4 Environmental Conditions**

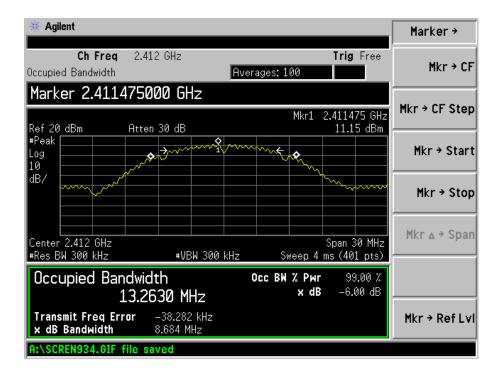
Temperature:	24° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

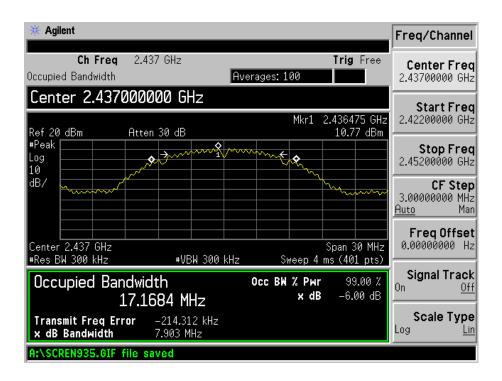
# **5.5 Summary of Test Results/Plots**

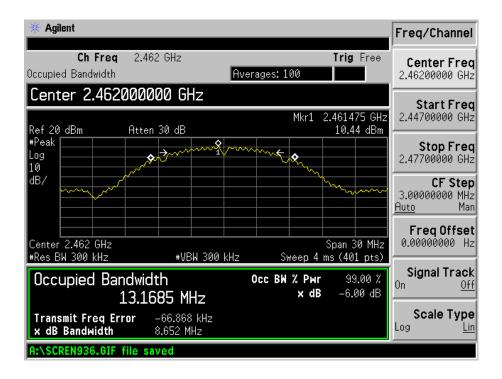
Test mode	Frequency	6 dB Bandwidth	Limit
rest mode	MHz	kHz	kHz
	2412	8684	500
802.11b	2437	7903	500
	2462	8652	500
	2412	18259	500
802.11g	2437	16531	500
	2462	16322	500
	2412	16931	500
802.11n	2437	16806	500
	2462	16137	500

For 802.11b

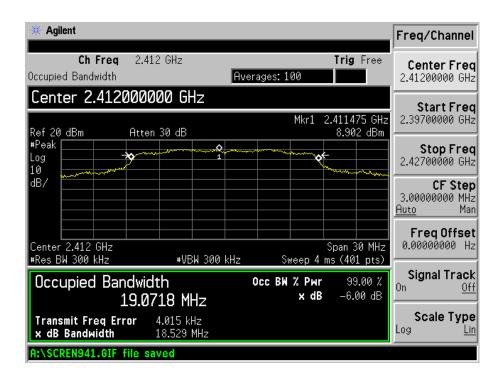
#### Low Channel:



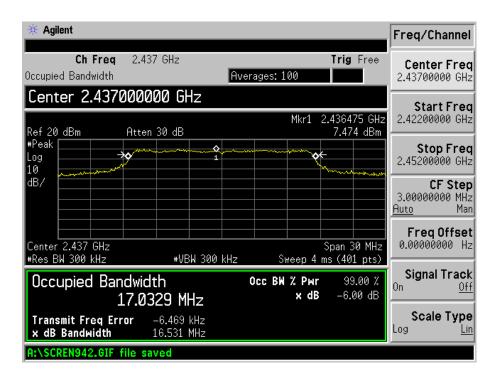


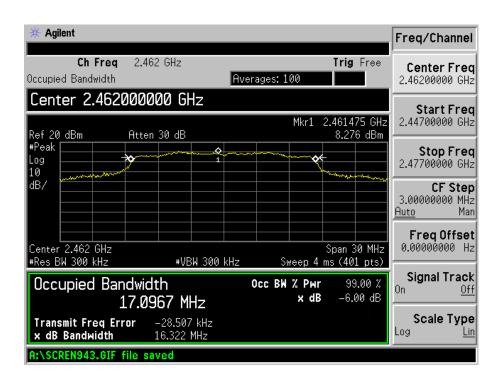


For 802.11g
Low Channel:



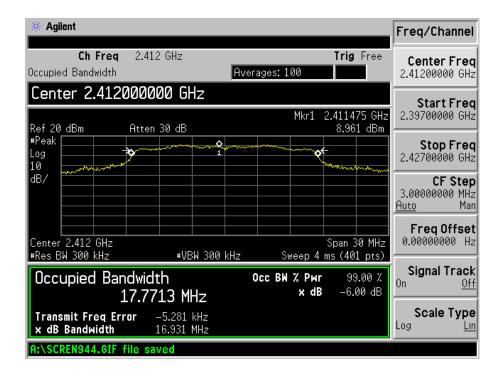
#### Middle Channel:

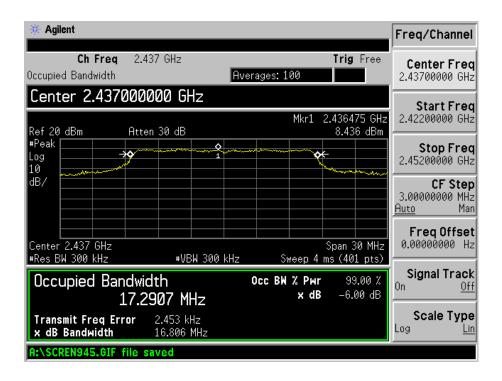


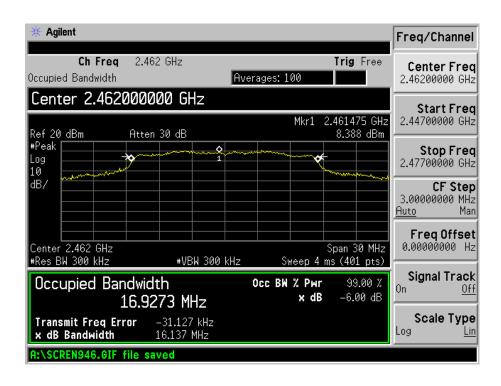


For 802.11n

Low Channel:







#### 6. POWER OUTPUT

# 6.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

# 6.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2010-12-20	2011-12-19
Attenuator	ATTEN	ATS100-4-20	/	2010-12-20	2011-12-19

**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

#### **6.3 Test Procedure**

According to section 15.247(b)-power output of the KDB-558074 (2005), the method #1 of the power output option2 was used, the following is the measurement procedure.

- 1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2. Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz.
- 4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
- 5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run".
- 6. Trace average 100 traces in power averaging mode.
- 7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges.

#### **6.4 Environmental Conditions**

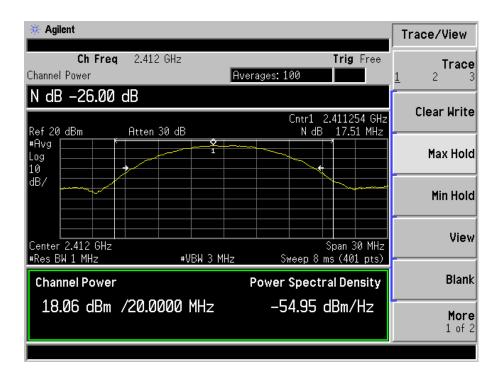
Temperature:	21° C
Relative Humidity:	55%
ATM Pressure:	1011 mbar

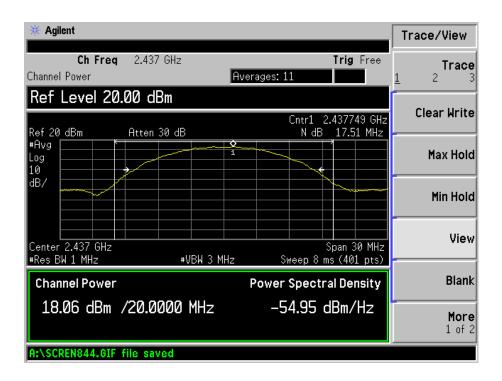
# **6.5 Summary of Test Results/Plots**

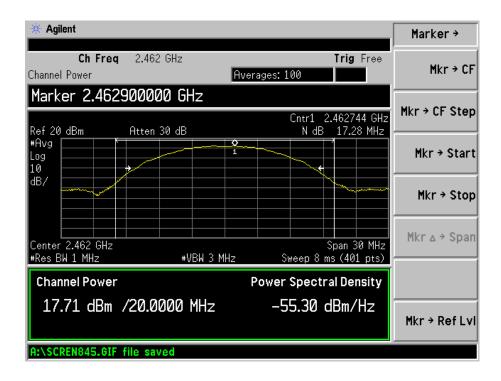
T+ 1-	Frequency	Reading	Output Power	Limit
Test mode	MHz	dBm	mW	mW
11b_long_1Mbps	2412	18.06	63.9735	1000
	2437	18.06	63.9735	1000
	2462	17.71	59.0201	1000
	2412	18.28	67.2977	1000
11b_long_11Mbps	2437	18.19	65.9174	1000
	2462	17.58	57.2796	1000
	2412	18.59	72.2770	1000
11b_short_1Mbps	2437	18.24	66.6807	1000
	2462	17.55	56.8853	1000
	2412	18.39	69.0240	1000
11b_short_11Mbps	2437	18.20	66.0693	1000
	2462	17.70	58.8844	1000
	2412	18.16	65.4636	1000
11g_6Mbps	2437	17.39	54.8277	1000
	2462	17.10	51.2861	1000
	2412	17.81	60.3949	1000
11g_54Mbps	2437	17.27	53.3335	1000
	2462	17.33	54.0754	1000
	2412	17.90	61.6595	1000
11n_MCS0	2437	17.46	55.7186	1000
	2462	17.31	53.8270	1000
	2412	17.99	62.9506	1000
11n_MCS7	2437	17.71	59.0201	1000
	2462	17.14	51.7607	1000

#### For 802.11b\_long\_1Mbps

Low Channel:

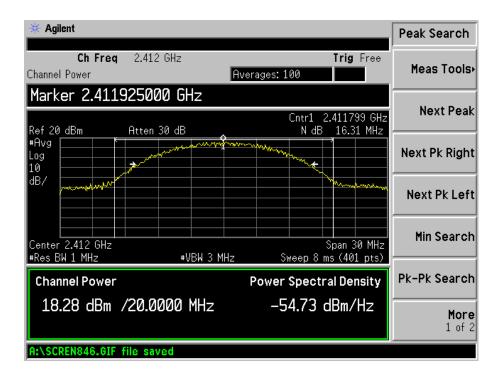




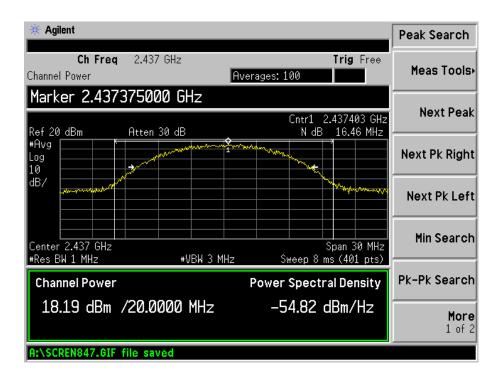


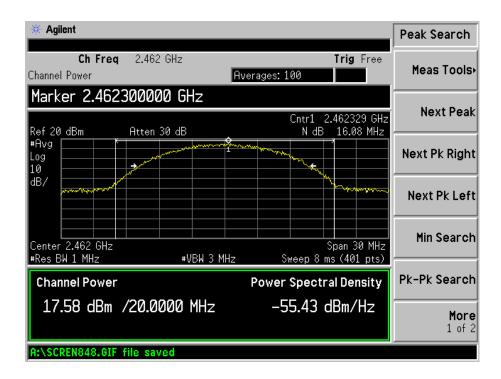
# For $802.11b\_long\_11Mbps$

Low Channel:



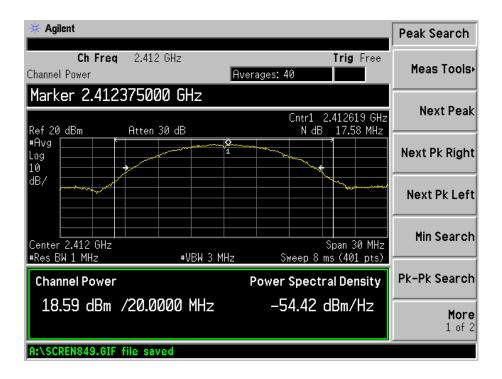
#### Middle Channel:

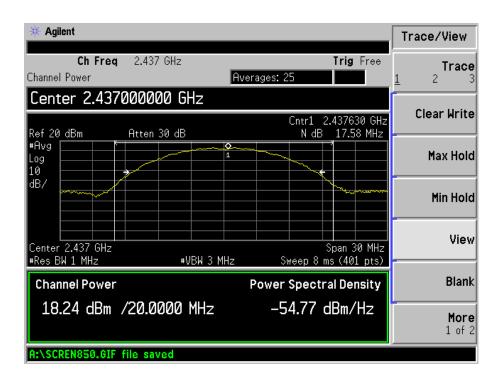


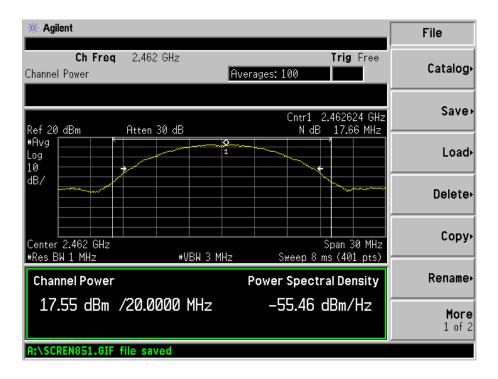


#### For 802.11b\_Short\_1Mbps

Low Channel:

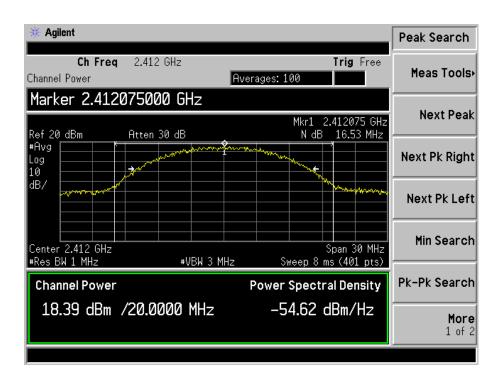




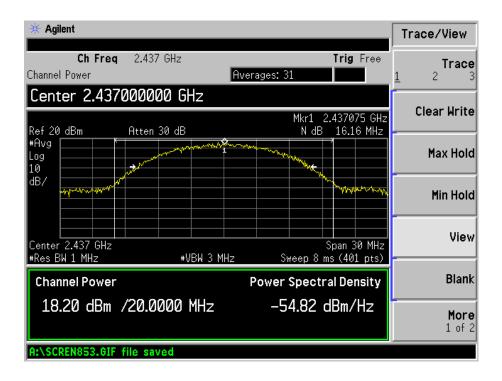


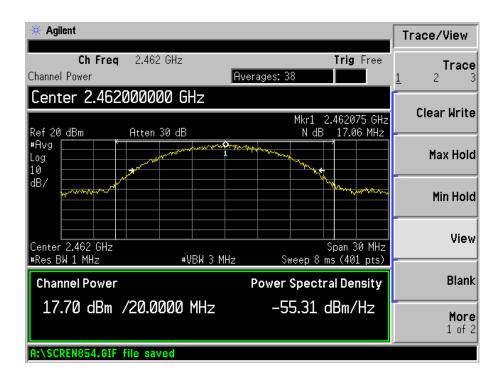
### For 802.11b\_Short\_11Mbps

Low Channel:



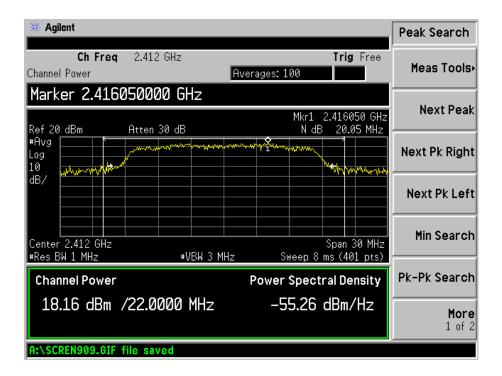
#### Middle Channel:

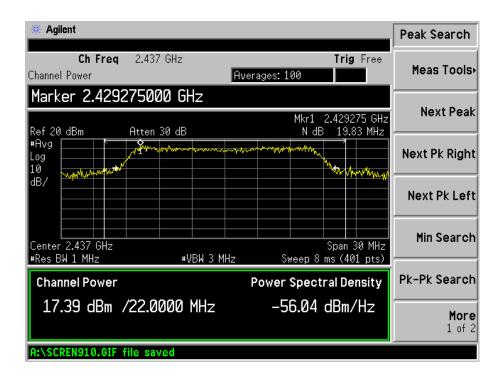


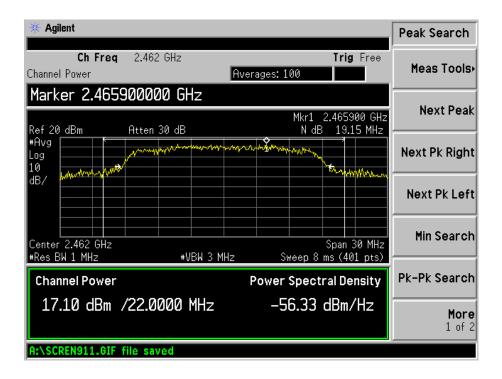


#### For 802.11g\_6Mbps

Low Channel:

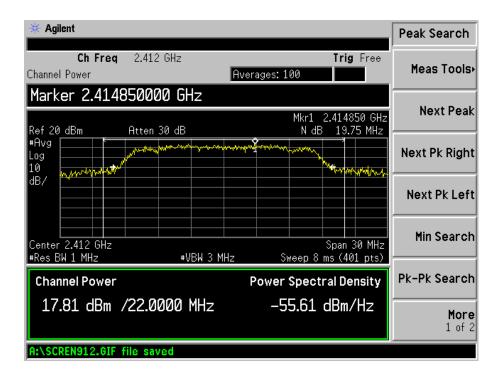




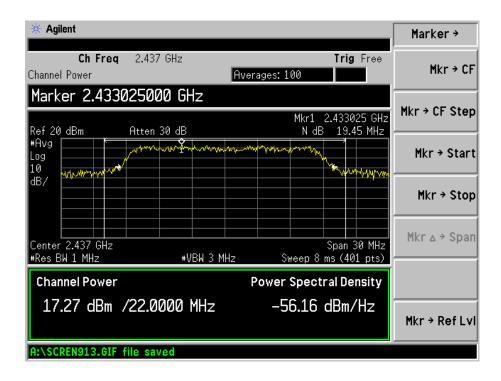


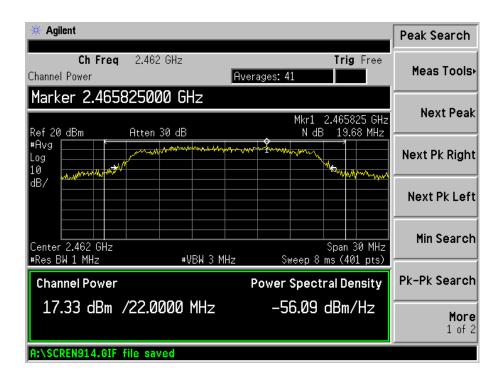
### For 802.11g\_54Mbps

Low Channel:



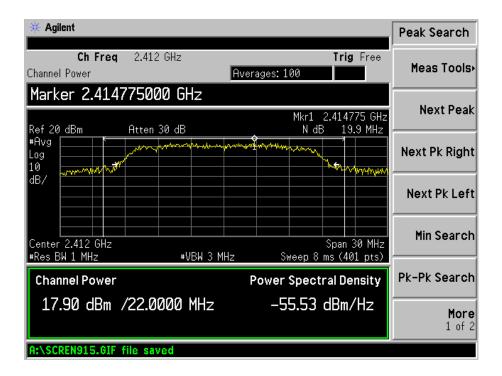
#### Middle Channel:

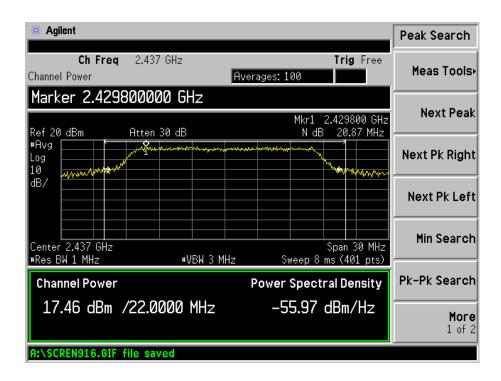


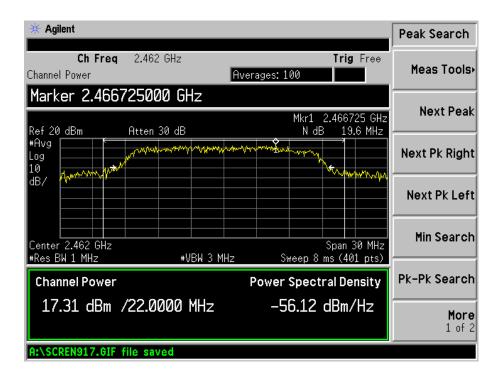


#### For 802.11n MCS 0

Low Channel:

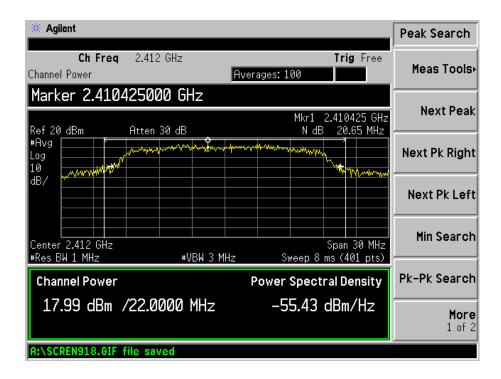




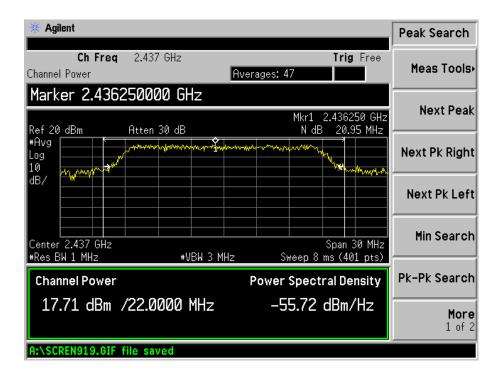


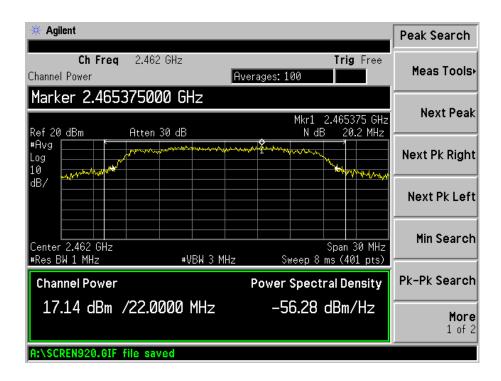
#### For 802.11n\_MCS 7

Low Channel:



#### Middle Channel:





### 7. FIELD STRENGTH OF SPURIOUS EMISSIONS

# 7.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is  $\pm 5.10$  dB.

### 7.2 Standard Applicable

According to §15.247(c), 15.205 15.209(b) &15.35 (b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Section 15.209:

30 - 88 MHz 40 dBuV/m @3M 88 -216 MHz 43.5 dBuV/m @3M 216 -960 MHz 46 dBuV/m @3M Above 960 MHz 54dBuV/m @3M

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Emissions that fall in the restricted bands (15.205) must be less than 54dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

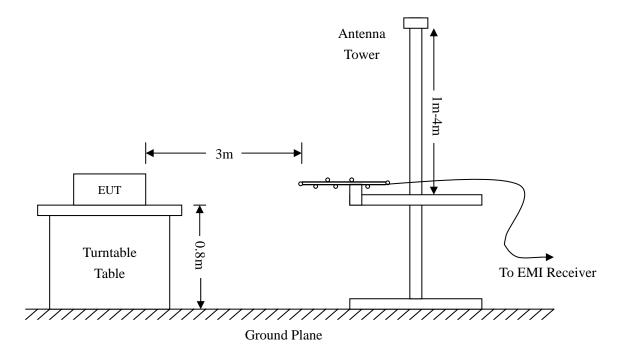
# 7.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2010-12-20	2011-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2010-12-20	2011-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2010-12-20	2011-12-19
RF Switch	EM	EMSW18	SW060023	2010-12-20	2011-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2010-12-20	2011-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2010-12-20	2011-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08
Loop Antenna	Loop Antenna SCHWARZECK		9365	2011-01-09	2012-01-08

#### 7.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.



# 7.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of  $-6dB\mu V$  means the emission is  $6dB\mu V$  below the maximum limit for Class B. The equation for margin calculation is as follows:

#### 7.6 Environmental Conditions

Temperature:	22° C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

# 7.7 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst margin of:

-9.88 dB $\mu$ V at 815.9678 MHz in the Horizontal polarization, Transmitting 802.11n Low Channel test mode with, 9 kHz to 25 GHz, 3Meters

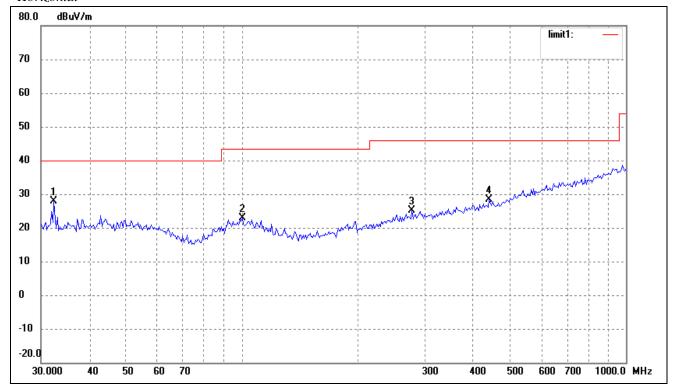
*Note:* this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Test Result/Plots:

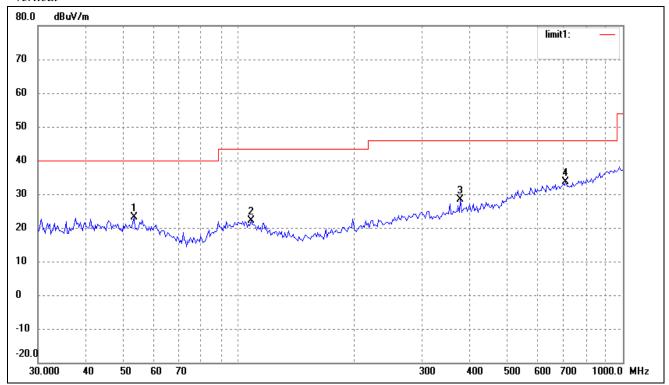
Spurious Emission From 30 MHz to 1 GHz

Test mode: Transmitting (802.11b) Low Channel (2412MHz)

Comment: Horizontal

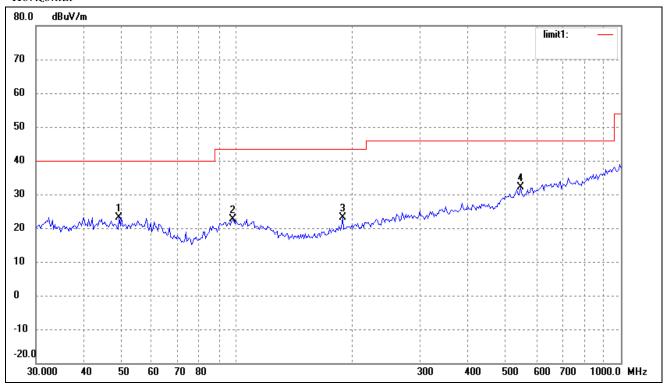


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.4059	21.09	6.77	27.86	40.00	-12.14	360	100	peak
2	100.2286	14.39	8.41	22.80	43.50	-20.70	360	100	peak
3	277.0935	15.61	9.43	25.04	46.00	-20.96	360	100	peak
4	440.1963	16.30	12.18	28.48	46.00	-17.52	360	100	peak

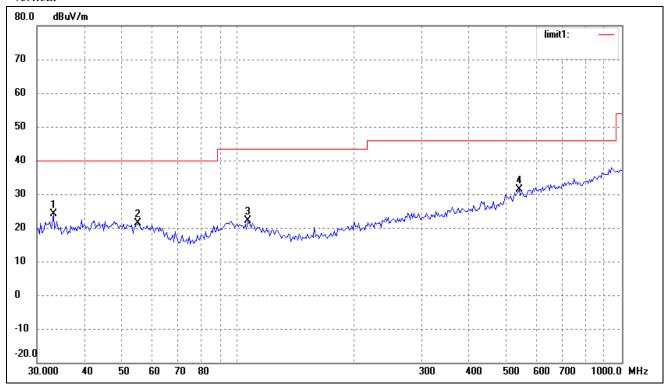


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	53.3179	15.26	7.84	23.10	40.00	-16.90	360	100	peak
2	107.5101	14.23	7.80	22.03	43.50	-21.47	360	100	peak
3	377.2591	17.20	11.16	28.36	46.00	-17.64	360	100	peak
4	709.1823	15.94	17.63	33.57	46.00	-12.43	360	100	peak

Test mode: Transmitting (802.11b) Middle Channel (2437MHz)

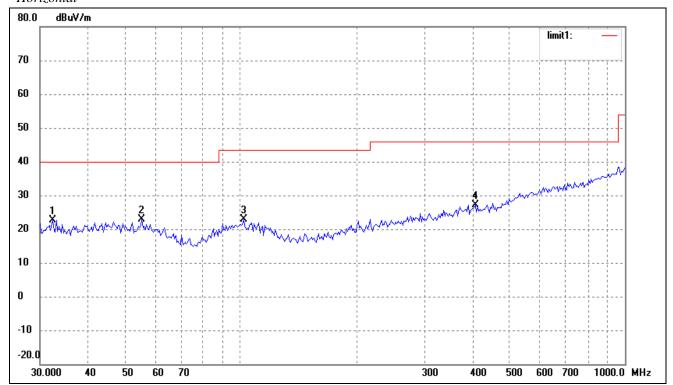


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	49.3594	15.21	8.00	23.21	40.00	-16.79	360	100	peak
2	97.4560	14.30	8.23	22.53	43.50	-20.97	360	100	peak
3	188.4125	16.69	6.40	23.09	43.50	-20.41	360	100	peak
4	547.0977	16.62	15.48	32.10	46.00	-13.90	360	100	peak

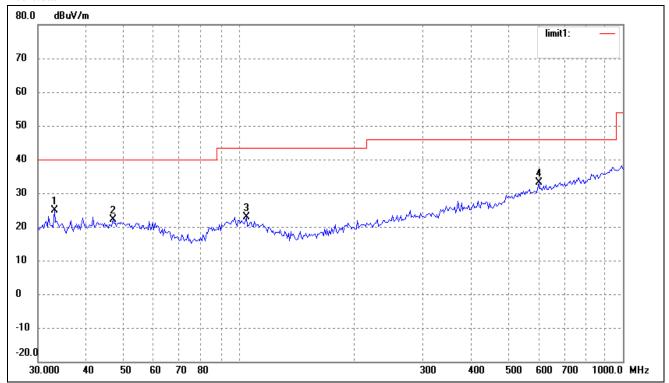


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	17.30	6.77	24.07	40.00	-15.93	360	100	peak
2	54.8348	13.64	7.78	21.42	40.00	-18.58	360	100	peak
3	106.0126	14.09	7.93	22.02	43.50	-21.48	360	100	peak
4	539.4775	15.99	15.30	31.29	46.00	-14.71	360	100	peak

Test mode: Transmitting (802.11b) High Channel (2462MHz)

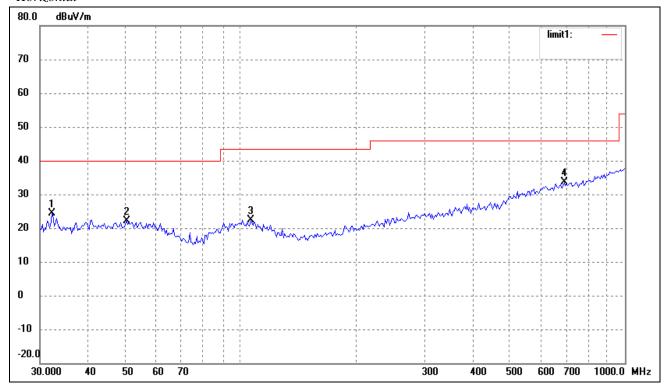


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.4059	15.96	6.77	22.73	40.00	-17.27	360	100	peak
2	55.2207	15.21	7.76	22.97	40.00	-17.03	360	100	peak
3	101.6443	14.64	8.29	22.93	43.50	-20.57	360	100	peak
4	407.5145	15.76	11.39	27.15	46.00	-18.85	360	100	peak

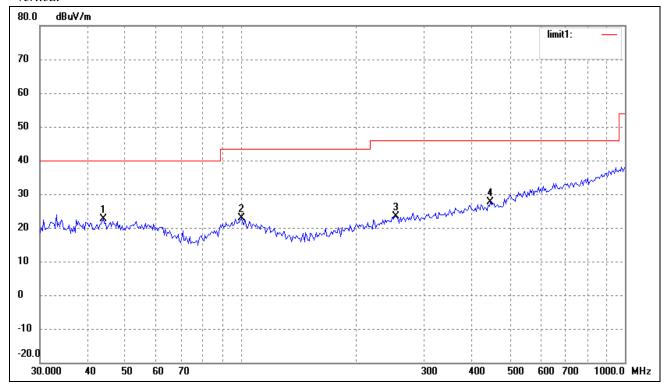


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	18.18	6.77	24.95	40.00	-15.05	360	100	peak
2	46.9948	13.92	8.13	22.05	40.00	-17.95	360	100	peak
3	104.5361	14.83	8.04	22.87	43.50	-20.63	360	100	peak
4	603.5392	16.36	16.70	33.06	46.00	-12.94	360	100	peak

Test mode: Transmitting (802.11g) Low Channel (2412MHz)

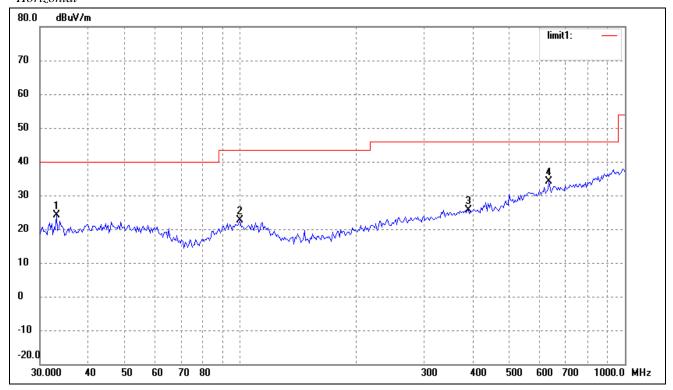


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.1795	17.54	6.77	24.31	40.00	-15.69	360	100	peak
2	50.4089	14.06	7.95	22.01	40.00	-17.99	360	100	peak
3	106.0126	14.43	7.93	22.36	43.50	-21.14	360	100	peak
4	694.4174	16.19	17.45	33.64	46.00	-12.36	360	100	peak

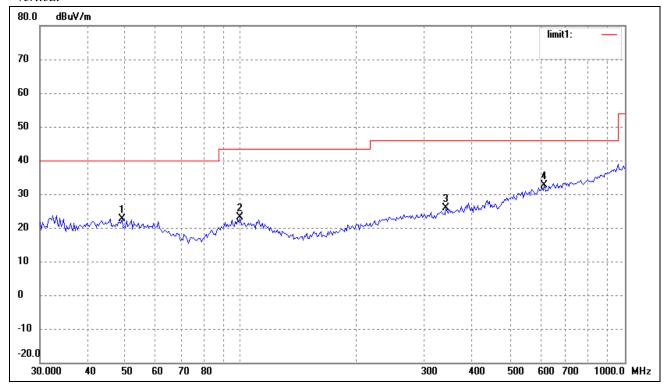


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	43.8119	14.36	8.21	22.57	40.00	-17.43	360	100	peak
2	100.2286	14.54	8.41	22.95	43.50	-20.55	360	100	peak
3	252.9482	14.61	8.77	23.38	46.00	-22.62	360	100	peak
4	446.4141	15.47	12.05	27.52	46.00	-18.48	360	100	peak

Test mode: Transmitting (802.11g) Middle Channel (2437MHz)

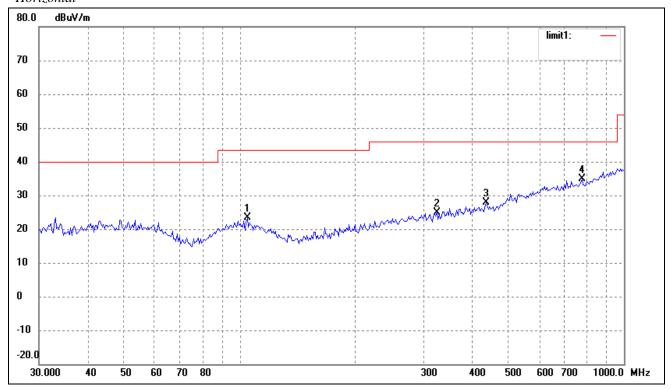


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	17.45	6.77	24.22	40.00	-15.78	360	100	peak
2	99.5281	14.24	8.40	22.64	43.50	-20.86	360	100	peak
3	390.7226	14.38	11.31	25.69	46.00	-20.31	360	100	peak
4	633.9073	17.16	16.95	34.11	46.00	-11.89	360	100	peak

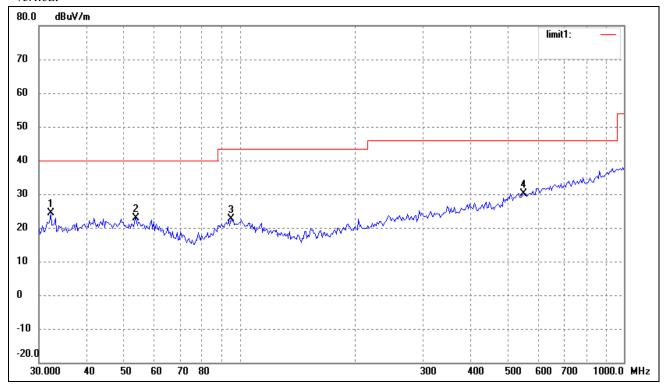


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	49.0145	14.56	8.02	22.58	40.00	-17.42	360	100	peak
2	99.5281	14.75	8.40	23.15	43.50	-20.35	360	100	peak
3	341.9787	15.44	10.47	25.91	46.00	-20.09	360	100	peak
4	616.3718	15.89	16.80	32.69	46.00	-13.31	360	100	peak

Test mode: Transmitting (802.11g) High Channel (2462MHz)

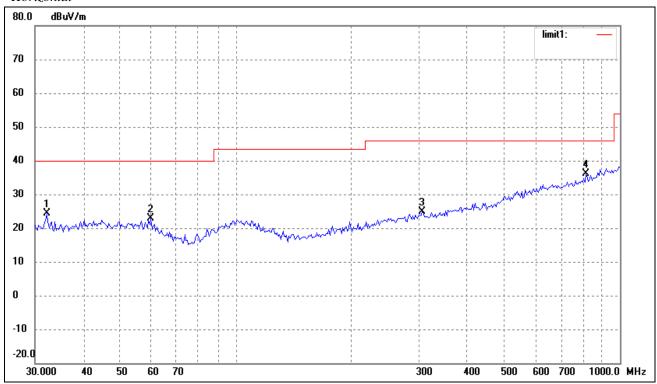


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	104.5361	15.46	8.04	23.50	43.50	-20.00	360	100	peak
2	325.5958	14.87	10.11	24.98	46.00	-21.02	360	100	peak
3	437.1199	15.78	12.07	27.85	46.00	-18.15	360	100	peak
4	776.8778	16.19	18.66	34.85	46.00	-11.15	360	100	peak

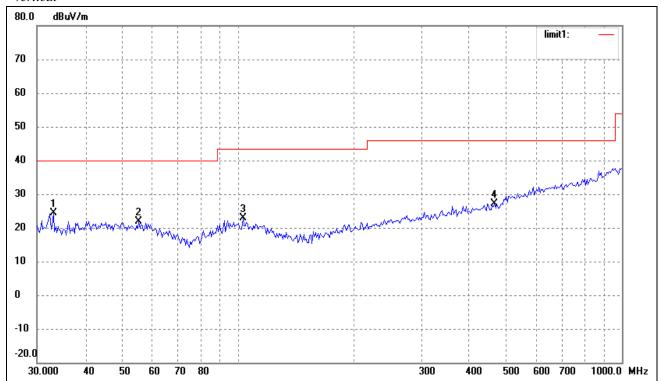


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.1795	17.52	6.77	24.29	40.00	-15.71	360	100	peak
2	53.6932	15.00	7.82	22.82	40.00	-17.18	360	100	peak
3	94.7601	14.62	8.01	22.63	43.50	-20.87	360	100	peak
4	547.0977	14.76	15.48	30.24	46.00	-15.76	360	100	peak

Test mode: Transmitting (802.11n) Low Channel (2412MHz)

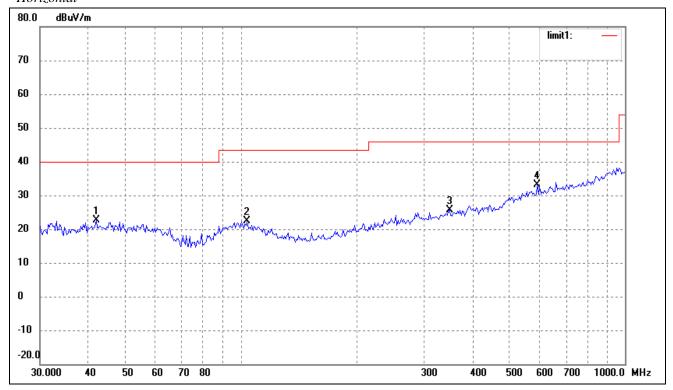


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.1795	17.49	6.77	24.26	40.00	-15.74	360	100	peak
2	60.0691	15.38	7.50	22.88	40.00	-17.12	360	100	peak
3	305.6800	15.10	9.83	24.93	46.00	-21.07	360	100	peak
4	815.9678	16.81	19.31	36.12	46.00	-9.88	360	100	peak

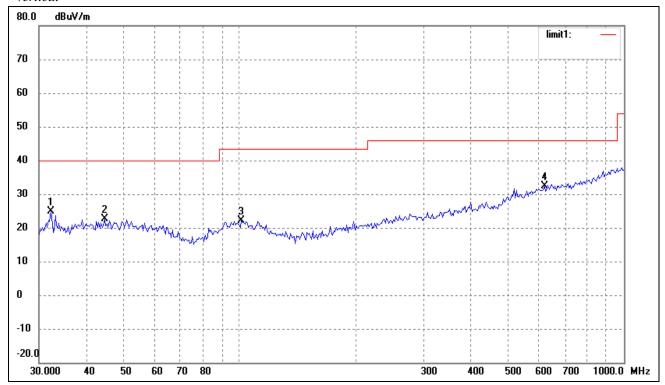


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	17.56	6.77	24.33	40.00	-15.67	360	100	peak
2	55.2207	14.01	7.76	21.77	40.00	-18.23	360	100	peak
3	103.0800	14.75	8.18	22.93	43.50	-20.57	360	100	peak
4	465.5994	15.19	11.95	27.14	46.00	-18.86	360	100	peak

Test mode: Transmitting (802.11n) Middle Channel (2437MHz)

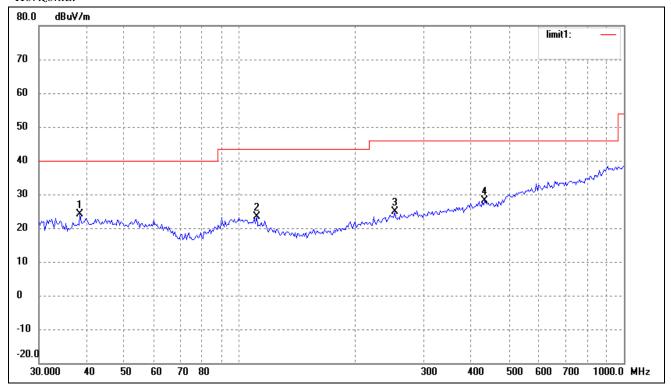


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	42.0066	14.57	8.17	22.74	40.00	-17.26	360	100	peak
2	103.8055	14.33	8.11	22.44	43.50	-21.06	360	100	peak
3	349.2500	15.08	10.65	25.73	46.00	-20.27	360	100	peak
4	590.9737	16.66	16.46	33.12	46.00	-12.88	360	100	peak

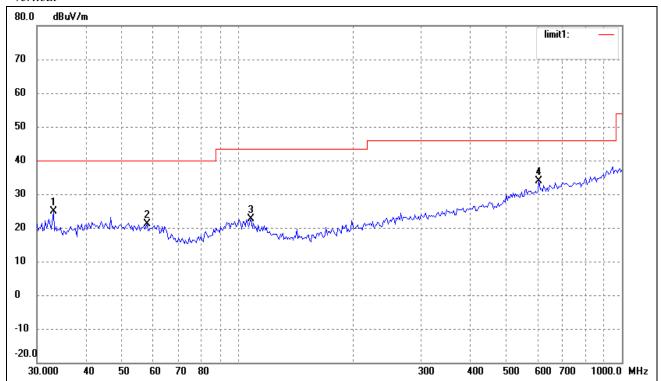


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	32.1795	18.17	6.77	24.94	40.00	-15.06	360	100	peak
2	44.4308	14.48	8.22	22.70	40.00	-17.30	360	100	peak
3	100.9340	13.73	8.34	22.07	43.50	-21.43	360	100	peak
4	620.7096	15.61	16.84	32.45	46.00	-13.55	360	100	peak

Test mode: Transmitting (802.11n) High Channel (2462MHz)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	38.3462	16.41	7.69	24.10	40.00	-15.90	360	100	peak
2	110.5687	15.86	7.50	23.36	43.50	-20.14	360	100	peak
3	252.9482	16.18	8.77	24.95	46.00	-21.05	360	100	peak
4	434.0651	16.16	11.93	28.09	46.00	-17.91	360	100	peak



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	33.0950	18.12	6.77	24.89	40.00	-15.11	360	100	peak
2	57.9993	13.61	7.63	21.24	40.00	-18.76	360	100	peak
3	108.2667	14.83	7.73	22.56	43.50	-20.94	360	100	peak
4	607.7867	17.18	16.73	33.91	46.00	-12.09	360	100	peak

Spurious Emission above 1GHz

Test Mode: Transmitting (802.11b)

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
				Low	Channel (2	2412MHz)				
4824.0	PK	36.00	90	V	34.1	5.2	33.0	42.3	74	-31.70
4824.0	PK	37.70	270	Н	34.1	5.2	33.0	44.0	74	-30.00
7236.0	PK	33.30	180	V	37.4	6.1	33.5	43.3	74	-30.70
7236.0	PK	33.40	45	Н	37.4	6.1	33.5	43.4	74	-30.60
4824.0	AV	36.50	270	V	34.1	5.2	33.0	42.8	54	-11.20
4824.0	AV	34.10	90	Н	34.1	5.2	33.0	40.4	54	-13.60
7236.0	AV	30.40	45	V	37.4	6.1	33.5	40.4	54	-13.60
7236.0	AV	30.20	60	Н	37.4	6.1	33.5	40.2	54	-13.80
				Middle	e Channel (	(2437MHz)	)			
4874.0	PK	36.80	45	V	34.1	5.2	33.0	43.1	74	-30.90
4874.0	PK	35.80	270	Н	34.1	5.2	33.0	42.1	74	-31.90
7311.0	PK	32.50	45	V	37.4	6.1	33.5	42.5	74	-31.50
7311.0	PK	32.60	180	Н	37.4	6.1	33.5	42.6	74	-31.40
4874.0	AV	36.10	270	V	34.1	5.2	33.0	42.4	54	-11.60
4874.0	AV	34.00	90	Н	34.1	5.2	33.0	40.3	54	-13.70
7311.0	AV	30.10	60	V	37.4	6.1	33.5	40.1	54	-13.90
7311.0	AV	31.00	45	Н	37.4	6.1	33.5	41.0	54	-13.00
				High	Channel (2	2462MHz)				
4924.0	PK	36.60	270	V	34.1	5.2	33.0	42.9	74	-31.10
4924.0	PK	36.70	45	Н	34.1	5.2	33.0	43.0	74	-31.00
7386.0	PK	32.30	180	V	37.4	6.1	33.5	42.3	74	-31.70
7386.0	PK	33.40	45	Н	37.4	6.1	33.5	43.4	74	-30.60
4924.0	AV	35.70	90	V	34.1	5.2	33.0	42.	54	-12.00
4924.0	AV	34.90	270	Н	34.1	5.2	33.0	41.2	54	-12.80
7386.0	AV	30.10	60	V	37.4	6.1	33.5	40.1	54	-13.90
7386.0	AV	30.10	60	Н	37.4	6.1	33.5	40.1	54	-13.90

Spurious Emission Above 1GHz

Test Mode: Transmitting (802.11g)

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
				Low	Channel (2	2412MHz)				
4824.0	PK	37.70	90	V	34.1	5.2	33.0	44.0	74	-30.00
4824.0	PK	36.60	270	Н	34.1	5.2	33.0	42.9	74	-31.10
7236.0	PK	31.90	180	V	37.4	6.1	33.5	41.9	74	-32.10
7236.0	PK	33.40	45	Н	37.4	6.1	33.5	43.4	74	-30.60
4824.0	AV	36.30	270	V	34.1	5.2	33.0	42.6	54	-11.40
4824.0	AV	33.70	90	Н	34.1	5.2	33.0	40.0	54	-14.00
7236.0	AV	30.10	45	V	37.4	6.1	33.5	40.1	54	-13.90
7236.0	AV	30.20	60	Н	37.4	6.1	33.5	40.2	54	-13.80
Middle Channel (2437MHz)										
4874.0	PK	36.60	45	V	34.1	5.2	33.0	42.9	74	-31.10
4874.0	PK	35.70	270	Н	34.1	5.2	33.0	42.0	74	-32.00
7311.0	PK	32.20	45	V	37.4	6.1	33.5	42.2	74	-31.80
7311.0	PK	32.60	180	Н	37.4	6.1	33.5	42.6	74	-31.40
4874.0	AV	37.10	270	V	34.1	5.2	33.0	43.4	54	-10.60
4874.0	AV	34.90	90	Н	34.1	5.2	33.0	41.2	54	-12.80
7311.0	AV	30.10	60	V	37.4	6.1	33.5	40.1	54	-13.90
7311.0	AV	30.40	45	Н	37.4	6.1	33.5	40.4	54	-13.60
				High	Channel (2	2462MHz)				
4924.0	PK	36.10	270	V	34.1	5.2	33.0	42.4	74	-31.60
4924.0	PK	36.90	45	Н	34.1	5.2	33.0	43.2	74	-30.80
7386.0	PK	31.80	180	V	37.4	6.1	33.5	41.8	74	-32.20
7386.0	PK	33.70	45	Н	37.4	6.1	33.5	43.7	74	-30.30
4924.0	AV	34.00	90	V	34.1	5.2	33.0	40.3	54	-13.70
4924.0	AV	33.70	270	Н	34.1	5.2	33.0	40.0	54	-14.00
7386.0	AV	30.70	60	V	37.4	6.1	33.5	40.7	54	-13.30
7386.0	AV	30.30	60	Н	37.4	6.1	33.5	40.3	54	-13.70

 $Spurious\ Emission\ Above\ 1GHz$ 

Test Mode: Transmitting (802.11n)

Frequency MHz	Detector	Meter Reading dBuV	Direction Degree	Polar H / V	Antenna Loss dB	Cable loss dB	Amplifier dB	Correction Amplitude dBuV/m	Limit dBuV/m	Margin dB
				Low	Channel (2	2412MHz)				
4824.0	PK	36.50	90	V	34.1	5.2	33.0	42.8	74	-31.20
4824.0	PK	36.10	270	Н	34.1	5.2	33.0	42.4	74	-31.60
7236.0	PK	32.20	180	V	37.4	6.1	33.5	42.2	74	-31.80
7236.0	PK	33.00	45	Н	37.4	6.1	33.5	43.0	74	-31.00
4824.0	AV	36.20	270	V	34.1	5.2	33.0	42.5	54	-11.50
4824.0	AV	32.80	90	Н	34.1	5.2	33.0	39.1	54	-14.90
7236.0	AV	30.50	45	V	37.4	6.1	33.5	40.5	54	-13.50
7236.0	AV	30.40	60	Н	37.4	6.1	33.5	40.4	54	-13.60
				Middle	e Channel (	(2437MHz)	)			
4874.0	PK	36.70	45	V	34.1	5.2	33.0	43.0	74	-31.00
4874.0	PK	35.70	270	Н	34.1	5.2	33.0	42.0	74	-32.00
7311.0	PK	31.00	45	V	37.4	6.1	33.5	41.0	74	-33.00
7311.0	PK	33.00	180	Н	37.4	6.1	33.5	43.0	74	-31.00
4874.0	AV	36.60	270	V	34.1	5.2	33.0	42.9	54	-11.10
4874.0	AV	34.40	90	Н	34.1	5.2	33.0	40.7	54	-13.30
7311.0	AV	31.60	60	V	37.4	6.1	33.5	41.6	54	-12.40
7311.0	AV	30.30	45	Н	37.4	6.1	33.5	40.3	54	-13.70
				High	Channel (2	2462MHz)				
4924.0	PK	36.60	270	V	34.1	5.2	33.0	42.9	74	-31.10
4924.0	PK	35.70	45	Н	34.1	5.2	33.0	42.0	74	-32.00
7386.0	PK	31.20	180	V	37.4	6.1	33.5	41.2	74	-32.80
7386.0	PK	33.60	45	Н	37.4	6.1	33.5	43.6	74	-30.40
4924.0	AV	36.20	90	V	34.1	5.2	33.0	42.5	54	-11.50
4924.0	AV	33.90	270	Н	34.1	5.2	33.0	40.2	54	-13.80
7386.0	AV	30.40	60	V	37.4	6.1	33.5	40.4	54	-13.60
7386.0	AV	30.00	60	Н	37.4	6.1	33.5	40.0	54	-14.00

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 5<sup>th</sup> Harmonics is close to the noise base even antenna close up to 1meter distance according the measurement of ANSI C63.4. The measurements greater than 20dB below the limit from 9kHz to 30MHz..

### 8. OUT OF BAND EMISSIONS

## 8.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

## 8.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2010-12-20	2011-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2010-12-20	2011-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2010-12-20	2011-12-19
RF Switch	EM	EMSW18	SW060023	2010-12-20	2011-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2010-12-20	2011-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2010-12-20	2011-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08

#### 8.3 Test Procedure

- 1. 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, VBW=100KHz, Span=50MHz, Sweep = auto
- 3. Set the Lowest and Highest Transmitting Channel, observed the outside band of 2400MHz to 2438.5MHz, then mark the higher-level emission for comparing with the FCC rules.

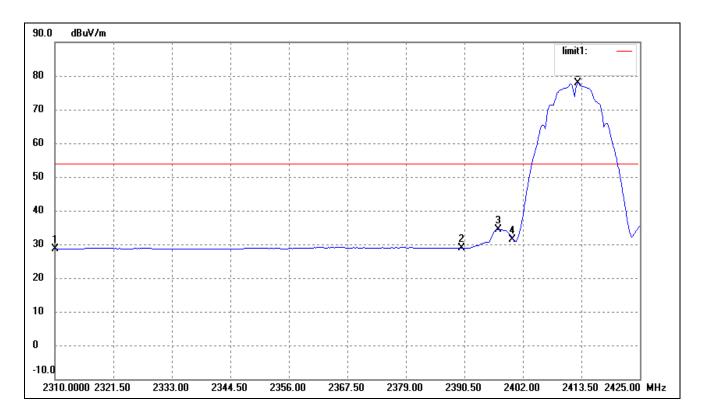
## **8.4 Environmental Conditions**

Temperature:	21° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

# **8.5 Summary of Test Results/Plots**

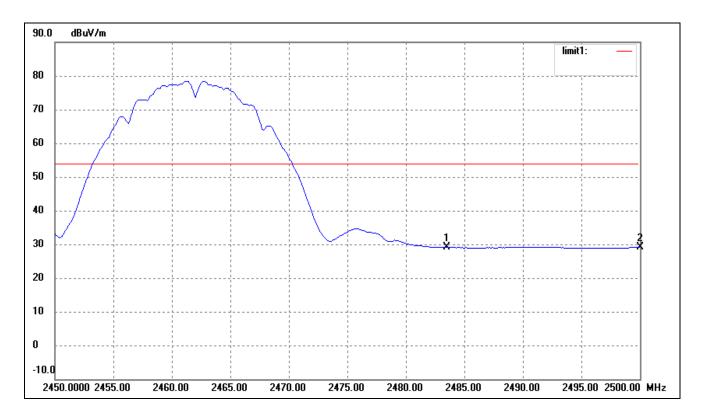
Test mode	Frequency MHz	Limit dBuV /dB	Result
	2390.00	<54dBuv	Pass
802.11b	2400.00	>20dB ATT	Pass
	2483.50	<54dBuv	Pass
	2390.00	<54dBuv	Pass
802.11g	2400.00	>20dB ATT	Pass
	2483.50	<54dBuv	Pass
	2390.00	<54dBuv	Pass
802.11n	2400.00	>20dB ATT	Pass
	2483.50	<54dBuv	Pass

For 802.11b Lowest Bandedge



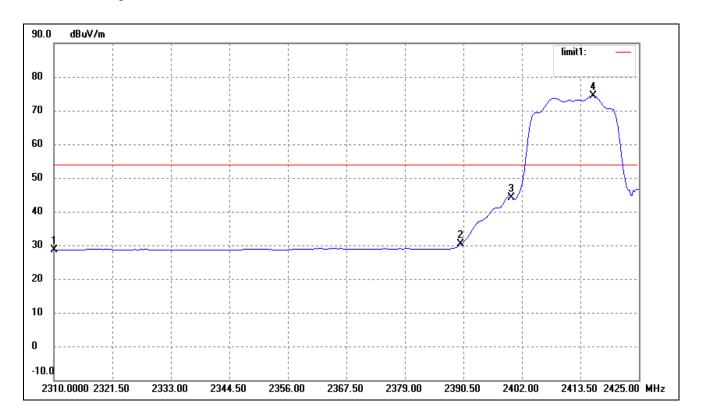
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	2310.000	36.23	-7.51	28.72	54.00	-25.28	136	100	Ave
	2310.000	49.10	-7.51	39.59	74.00	-34.41	136	100	peak
2	2390.000	36.23	-7.34	28.89	54.00	-25.11	136	100	Ave
	2390.000	46.67	-7.34	39.33	74.00	-34.67	136	100	peak
3	2397.170	41.74	-7.31	34.43	54.00	-19.57	136	100	Ave
	2397.170	53.56	-7.31	46.25	74.00	-27.75	136	100	peak
4	2400.000	38.57	-7.31	31.26	54.00	-22.74	136	100	Ave
	2400.000	51.54	-7.31	44.23	74.00	-29.77	136	100	peak
5	2412.810	85.17	-7.28	77.89			136	100	Ave

For 802.11b Highest Bandedge



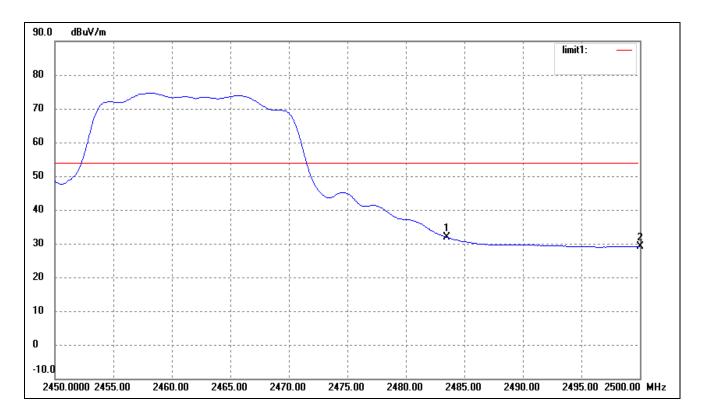
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	2483.500	36.17	-7.13	29.04	54.00	-24.96	136	100	Ave
	2483.500	48.78	-7.13	41.65	74.00	-32.35	136	100	Peak
2	2500.000	36.13	-7.08	29.05	54.00	-24.95	136	100	Ave
	2500.000	48.77	-7.08	41.69	74.00	-32.31	136	100	Peak

For 802.11g Lowest Bandedge



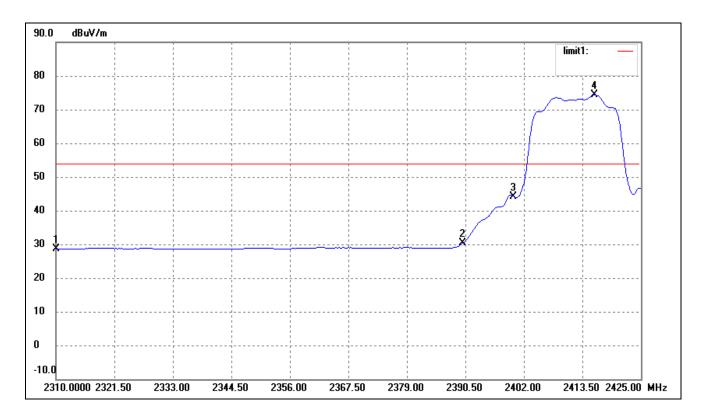
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2310.000	36.23	-7.51	28.72	54.00	-25.28	136	100	Ave
	2310.000	46.67	-7.51	39.16	74.00	-34.84	136	100	peak
2	2390.000	37.73	-7.34	30.39	54.00	-23.61	136	100	Ave
	2390.000	47.60	-7.34	40.26	74.00	33.74	136	100	peak
3	2400.000	51.49	-7.31	44.18	54.00	-9.82	136	100	Ave
	2400.000	61.00	-7.31	53.69	74.00	-20.31	136	100	peak
4	2416.030	81.59	-7.27	74.32			136	100	Ave

# Highest Bandedge



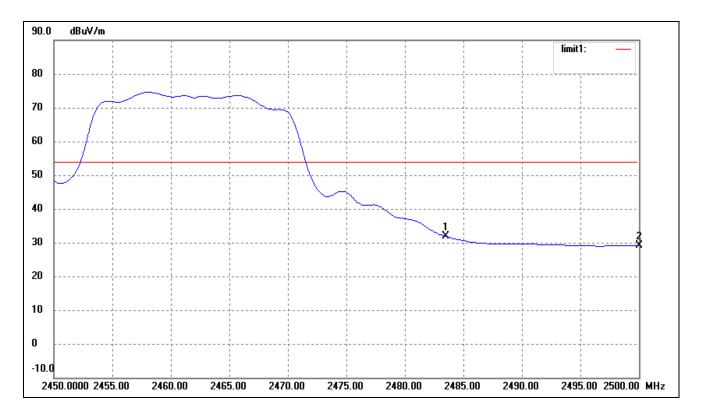
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2483.500	38.89	-7.13	31.76	54.00	-22.24	136	100	Ave
	2483.500	49.09	-7.13	41.96	74.00	-32.04	136	100	peak
2	2500.000	36.21	-7.08	29.13	54.00	-24.87	136	100	Ave
	2500.000	47.11	-7.08	40.03	74.00	-33.97	136	100	peak

**For 802.11n**Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2310.000	36.23	-7.51	28.72	54.00	-25.28	136	100	Ave
	2310.000	47.74	-7.51	40.23	74.00	-34.84	136	100	peak
2	2390.000	37.73	-7.34	30.39	54.00	-23.61	136	100	Ave
	2390.000	47.26	-7.34	39.62	74.00	33.74	136	100	peak
3	2400.000	51.48	-7.31	44.17	54.00	-9.83	136	100	Ave
	2400.000	60.67	-7.31	53.36	74.00	-20.31	136	100	peak
4	2415.800	81.56	-7.27	74.29			136	100	Ave

# Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(°)	(cm)	
1	2483.500	38.92	-7.13	31.79	54.00	-22.21	136	100	Ave
	2483.500	47.49	-7.13	40.39	74.00	-33.61	136	100	peak
2	2500.000	36.19	-7.08	29.11	54.00	-24.89	136	100	Ave
	2500.000	45.47	-7.08	38.39	74.00	-35.61	136	100	peak

## 9. CONDUCTED EMISSIONS

## 9.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is  $\pm 2.88$  dB.

## 9.2 Test Equipment List and Details

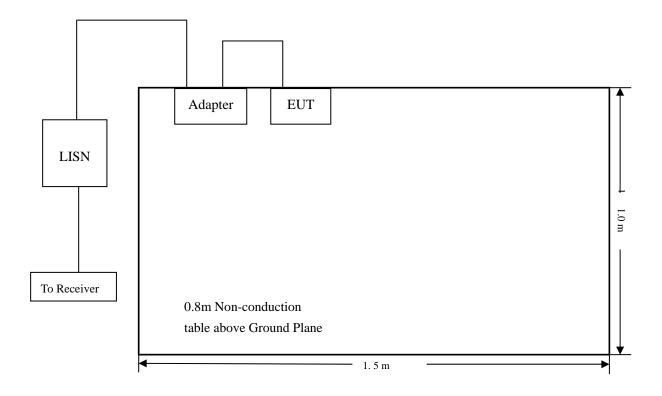
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2010-12-20	2011-12-19
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2010-12-20	2011-12-19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2010-12-20	2011-12-19

**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

#### 9.3 Test Procedure

Test is conducting under the description of ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

## 9.4 Basic Test Setup Block Diagram



## 9.5 Environmental Conditions

Temperature:	20° C
Relative Humidity:	52%
ATM Pressure:	1011 mbar

## 9.6 Summary of Test Results/Plots

According to the data in section 9.7, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for a Class B device, with the *worst* margin reading of:

-5.02  $dB\mu V$  at 0.190 MHz in the Line, PK Detector, 0.15-30MHz

## 9.7 Conducted Emissions Test Data

# Plot of Conducted Emissions Test Data

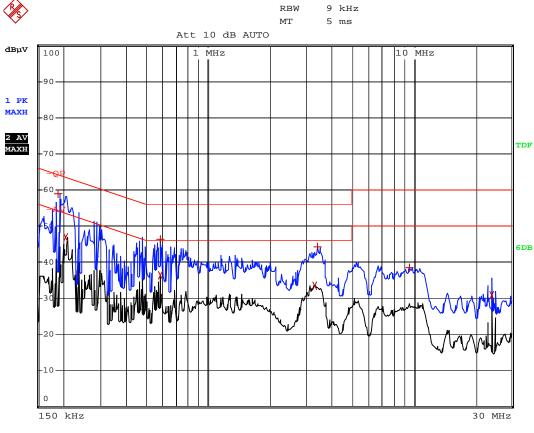
Conducted Disturbance

EUT: Tablet PC M/N: TC979

Operating Condition: WIFI Transmitting

Test Specification: L

Comment: AC 120V/60Hz/Adapter 5V



EDIT PEAK LIST (Prescan Results)								
Trace	e1:	-QP						
Trace	e2:	-AV						
Trace	e3:							
	TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB				
1 1	Max Peak	190 kHz	59.01	-5.02				
2 1	Average	206 kHz	46.90	-6.46				
1 1	Max Peak	582 kHz	46.39	-9.60				
2 7	Average	582 kHz	36.34	-9.65				
2 7	Average	3.302 MHz	33.56	-12.43				
1 1	Max Peak	3.398 MHz	44.23	-11.76				
1 1	Max Peak	9.542 MHz	38.57	-21.42				
2 2	Average	23.986 MHz	30.80	-19.19				

#### Plot of Conducted Emissions Test Data

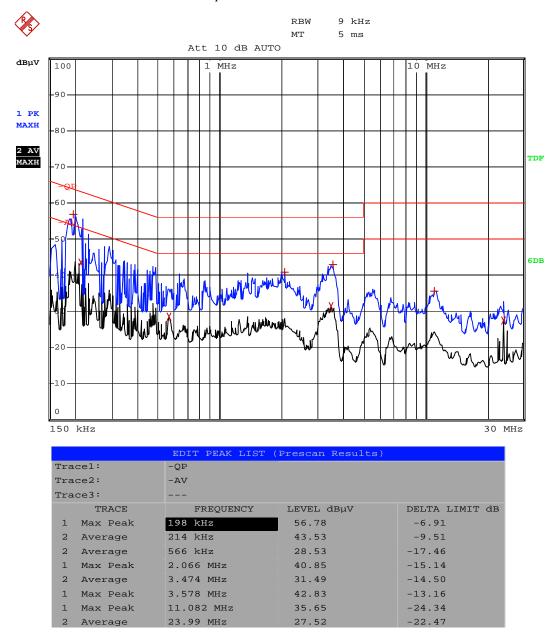
Conducted Disturbance

EUT: Tablet PC M/N: TC979

Operating Condition: WIFI Transmitting

Test Specification: N

Comment: AC 120V/60Hz/Adapter 5V



\*\*\*\*\* END OF REPORT \*\*\*\*\*