



# FCC TEST REPORT

According to

## FCC Rules and Regulations

### Part 15 Subpart C

### And Canada RSS-210 issue 8

Applicant	:	Netgear Inc.
Address	:	350 East Plumeria Drive, San Jose, CA 95134 U.S.A.
Equipment	:	ProSafe Wireless- 802.11b/g/n VPN Firewall
Model No.	:	FVS318N
FCC ID.	:	PY311100158
IC ID.	:	4054A-11100158
Trade Name	:	Netgear

#### Laboratory Accreditation



- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of **CerpPASS Technology Corp.**, the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



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# CERTIFICATE OF COMPLIANCE

According to

## FCC Rules and Regulations

### Part 15 Subpart C

### And Canada RSS-210 issue 8

Applicant : Netgear Inc.  
Address : 350 East Plumeria Drive, San Jose,  
CA 95134 U.S.A.  
Equipment : ProSafe Wireless- 802.11b/g/n VPN Firewall  
Model No. : FVS318N  
FCC ID. : PY311100158  
IC ID. : 4054A-11100158

**I HEREBY CERTIFY THAT :**

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was **passed** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2009), and Canada RSS-210.**

The test was carried out on May 12-Jun.30, 2011 at CerpPASS Technology Corp.

Signature

Hill Chen

EMC/RF B.U. / Chief of Engineering Dept.



# 1. Report of Measurements and Examinations

## 1.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	Pass
15.207	. Conducted Emission	Pass
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment under Test

- ARM11 MPcore(ARM v6) Dual-core CPU (CAVIUM CNS3411) 300MHz CPU
- Single radio 802.11b/g/n AP
- Two pieces external antenna
- 1 x 10/100/1000Base-T(1x WAN)
- 8 x 10/100/1000Base-T(8x LAN)
- Memory footprint:  
DDRII 32M x 16bit/ 400MHz  
NOR Parallel Flash 32 Mbytes
- Powering: 12V 1.5A wall-wards AC/DC power adaptors
- 1 push button for reboot or factory reset

### 2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n HT40

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---



### 2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Notebook, Printer, Test Fixture, and EUT for RF test.
- c. An executive program, "art.exe" under WIN XP was executed to transmit and receive data to the remote workstation through Wireless.
- d. The following test modes were performed for test:

Test mode1: Adapter: PIE/ AD810F10

- 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
- 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz

Test mode2: Adapter: Leader/ MT12-Y120100-A1

- 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
- 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz

### 2.4 Description of Test System

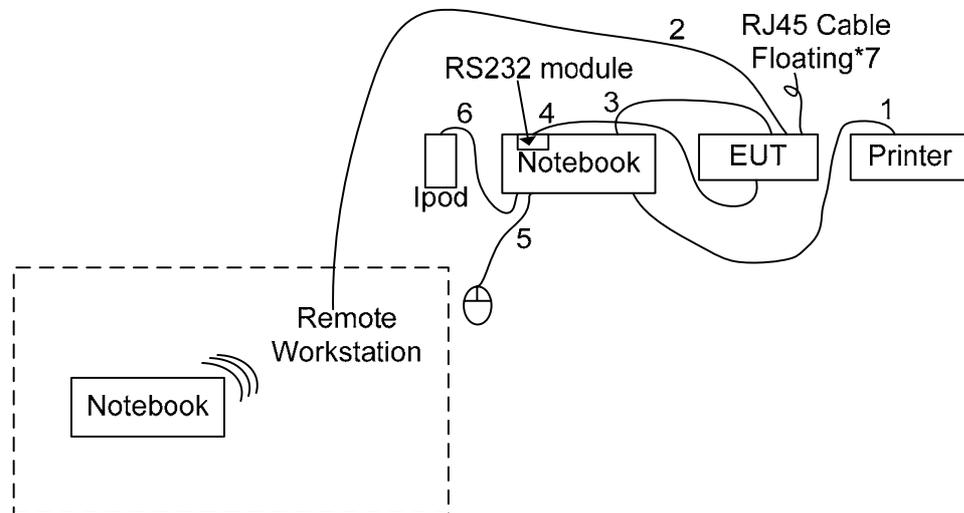
Device	Manufacture	Model No.	Description
Mouse	DELL	M-UAR DEL7	Data Cable, USB Shielding, 1.85m
Printer	hp	D2660	Power Cable, Unshielding, 1.8m Data Cable, USB Shielding, 1.6m
Ipod	Apple	A1320	Data Cable, USB Shielding, 1m
Notebook*3	SONY	VPCEB25FW	Power Cable, Adapter Unshielding, 1.8m
RS232 module	N/A	N/A	N/A

Use Cable:

Cable	Quantity	Description
RJ45	1	Unshielding, 1.8m
RJ45	1	Unshielding, 15m
RS232	1	Unshielding, 1.5m
RJ45	7	Unshielding, 3m



## 2.5 Connection Diagram of Test System



1. The USB cable is connected from EUT to the Printer.
  2. The RJ45 cable is connected from EUT to the Remote Workstation.
  3. The RJ45 cable is connected from EUT to the Notebook.
  4. The RS232 cable is connected from EUT to the RS232 module.
  5. The USB cable is connected from Notebook to the Mouse.
  6. The USB cable is connected from Notebook to the Ipod.
- \* The EUT keeps to transmit and receive data via Notebook by Wireless.



## 2.6 General Information of Test

Test Site :	CerpPASS Technology Corp. 2F-11, No. 3, Yuan Qu St. (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS1-SD):	No. 68-1, Shibachong Si, Shihding Township, Taipei County, Taiwan, R.O.C.
FCC Registration Number :	TW1061, TW1056, 390316, 488071
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-543 for Telecommunication Test C-3328 for Conducted emission test R-3428 for Radiated emission test G-97 for Radiated emission test above 1GHz.
Test Voltage:	AC 120V / 60Hz
Test in Compliance with:	ANSI C63.4-2009 FCC Part 15 Subpart C Canada RSS-210
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 25,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

## 2.7 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE/NEUTRAL	2.71 dB
Radiated Emission	30 MHz ~ 25GHz	Vertical	4.11 dB
		Horizontal	4.10 dB
6 dB Bandwidth	---	---	7500 Hz
Maximum Peak Output Power	---	---	1.4 dB
100kHz Bandwidth of Frequency Band Edges	---	---	2.2 dB
Power Spectral Density	---	---	2.2 dB





### 3. Antenna Requirements

#### 3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

#### 3.2 Antenna Construction and Directional Gain

Antenna R:

Antenna Type: Dipole antenna

Antenna Gain: 2.59 dBi

Antenna L:

Antenna Type: Dipole antenna

Antenna Gain: 1.9 dBi



## 4. Test of Conducted Emission

### 4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

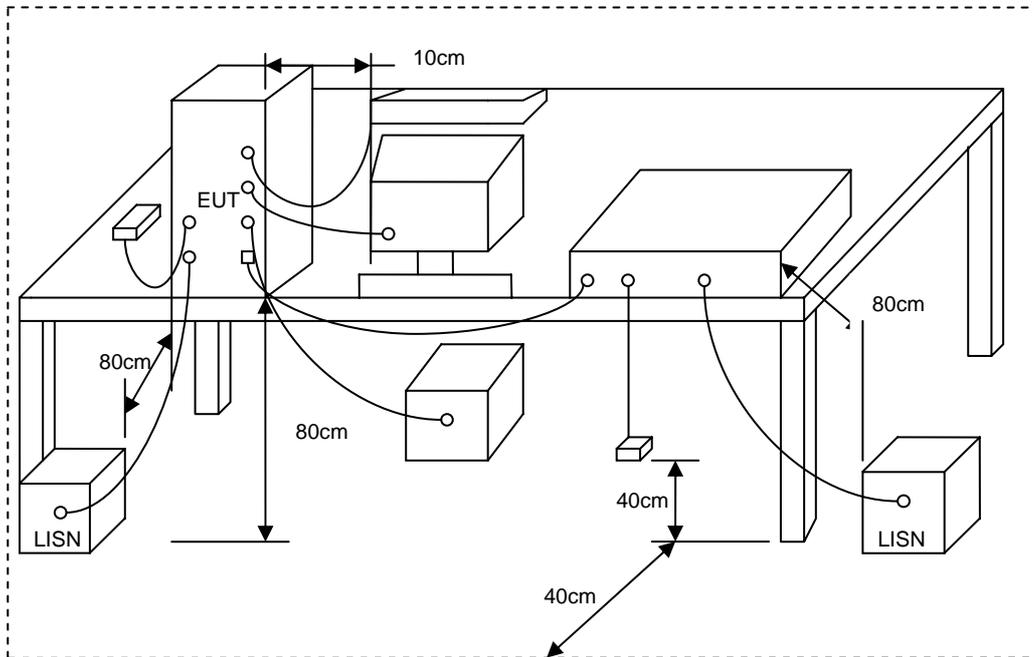
\*Decreases with the logarithm of the frequency.

### 4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



### 4.3 Typical Test Setup



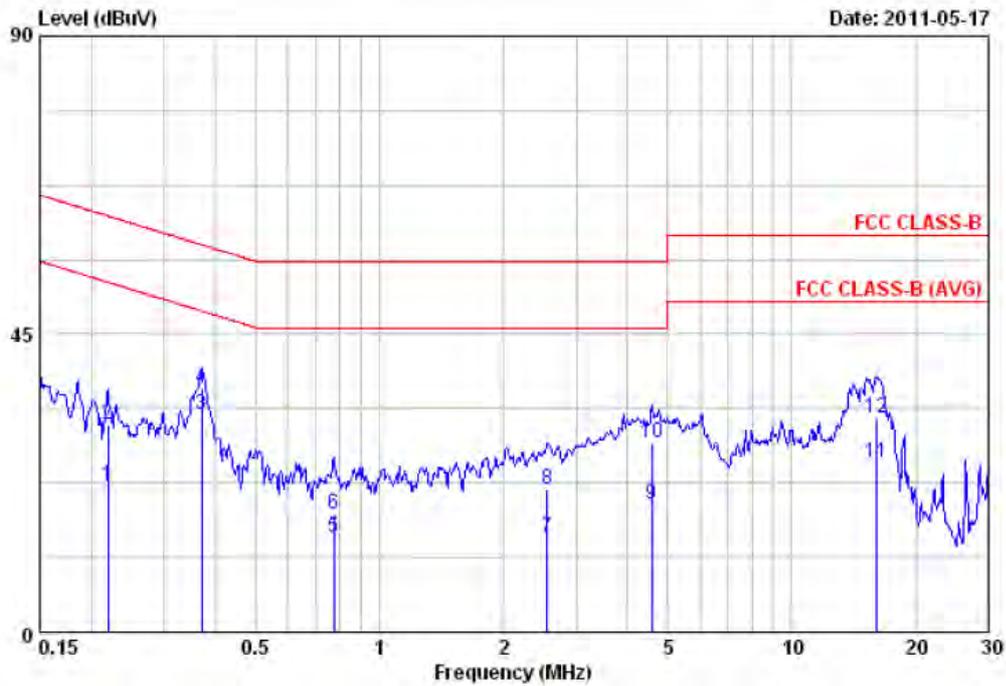
### 4.4 Measurement Equipment

Instrument/ Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	R&S	ESCI	100443	2011/02/08	2012/02/07
LISN	Schwarzbeck	NSLK 8127	8127-516	2010/05/25	2011/05/24
LISN	EMCO	3825/2	9703-2655	2010/07/19	2011/07/18



### 4.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11g, CH1	Temperature	: 22 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 69 %



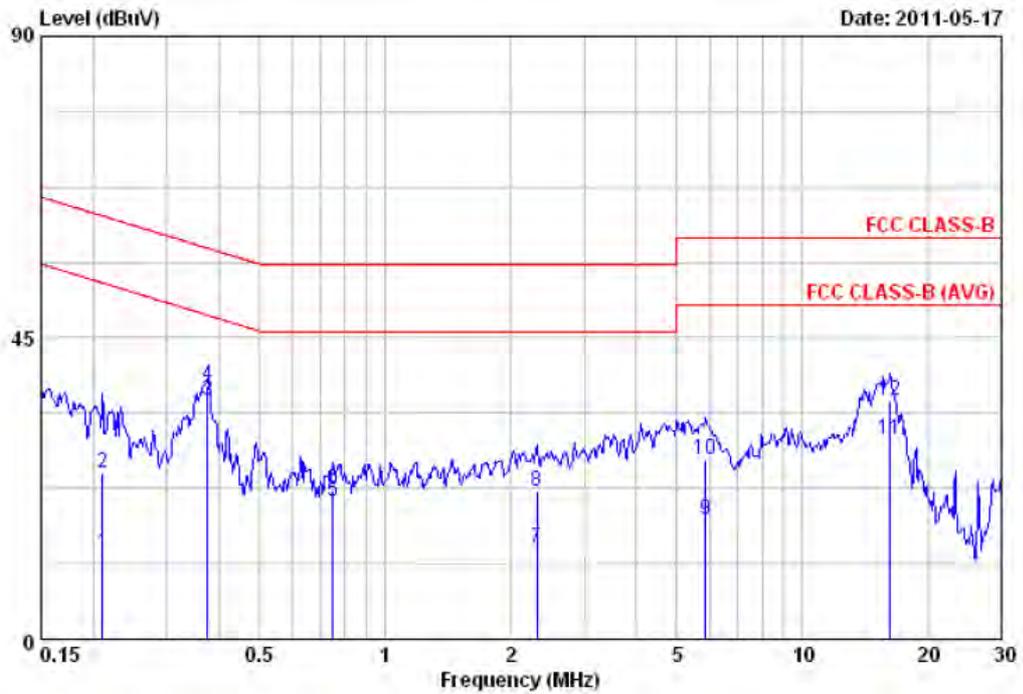
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.22	21.99	0.07	22.06	52.83	-30.77	Average
2	0.22	31.26	0.07	31.33	62.83	-31.50	QP
3	0.37	32.70	0.08	32.78	48.47	-15.69	Average
4	0.37	36.79	0.08	36.87	58.47	-21.60	QP
5	0.78	14.16	0.09	14.25	46.00	-31.75	Average
6	0.78	17.80	0.09	17.89	56.00	-38.11	QP
7	2.55	14.22	0.17	14.39	46.00	-31.61	Average
8	2.55	21.46	0.17	21.63	56.00	-34.37	QP
9	4.57	19.06	0.26	19.32	46.00	-26.68	Average
10	4.57	28.38	0.26	28.64	56.00	-27.36	QP
11	15.97	25.04	0.50	25.54	50.00	-24.46	Average
12	15.97	31.82	0.50	32.32	60.00	-27.68	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11g, CH1	Temperature	: 22 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 69 %



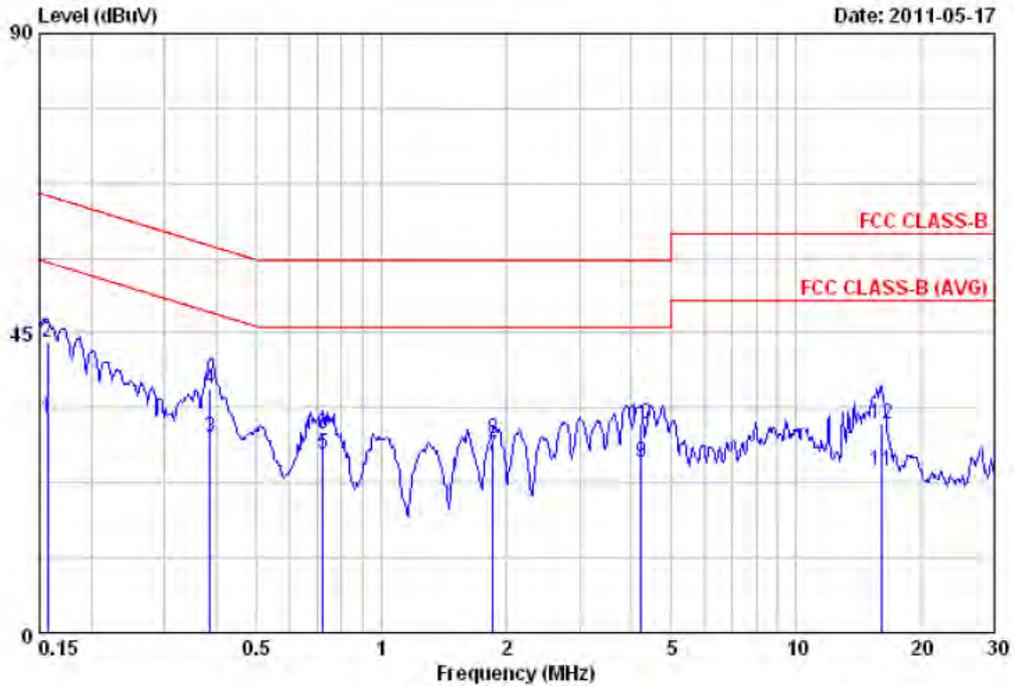
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.21	12.82	0.07	12.89	53.18	-40.29	Average
2	0.21	24.83	0.07	24.90	63.18	-38.28	QP
3	0.38	35.41	0.08	35.49	48.39	-12.90	Average
4	0.38	37.84	0.08	37.92	58.39	-20.47	QP
5	0.75	20.40	0.09	20.49	46.00	-25.51	Average
6	0.75	22.35	0.09	22.44	56.00	-33.56	QP
7	2.31	13.32	0.13	13.45	46.00	-32.55	Average
8	2.31	21.91	0.13	22.04	56.00	-33.96	QP
9	5.87	17.48	0.26	17.74	50.00	-32.26	Average
10	5.87	26.44	0.26	26.70	60.00	-33.30	QP
11	16.23	29.33	0.48	29.81	50.00	-20.19	Average
12	16.23	35.07	0.48	35.55	60.00	-24.45	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 69 %



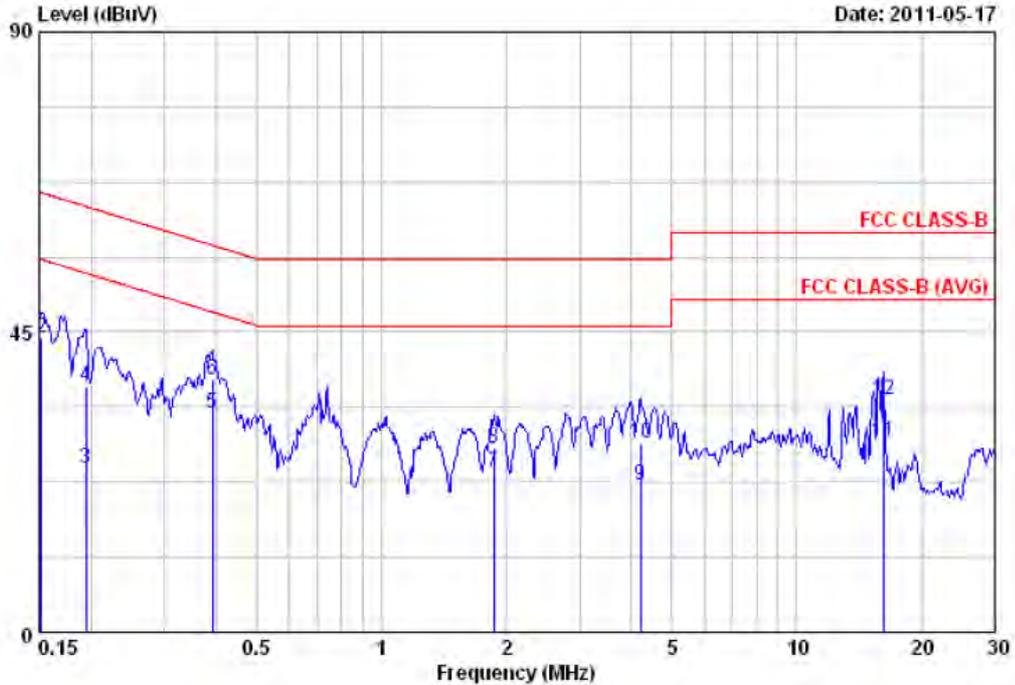
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.16	32.14	0.07	32.21	55.65	-23.44	Average
2	0.16	43.50	0.07	43.57	65.65	-22.08	QP
3	0.39	29.25	0.08	29.33	48.12	-18.79	Average
4	0.39	36.54	0.08	36.62	58.12	-21.50	QP
5	0.72	26.71	0.09	26.80	46.00	-19.20	Average
6	0.72	29.75	0.09	29.84	56.00	-26.16	QP
7	1.86	26.41	0.14	26.55	46.00	-19.45	Average
8	1.86	28.96	0.14	29.10	56.00	-26.90	QP
9	4.22	25.34	0.24	25.58	46.00	-20.42	Average
10	4.22	31.02	0.24	31.26	56.00	-24.74	QP
11	15.97	23.90	0.50	24.40	50.00	-25.60	Average
12	15.97	30.92	0.50	31.42	60.00	-28.58	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 69 %



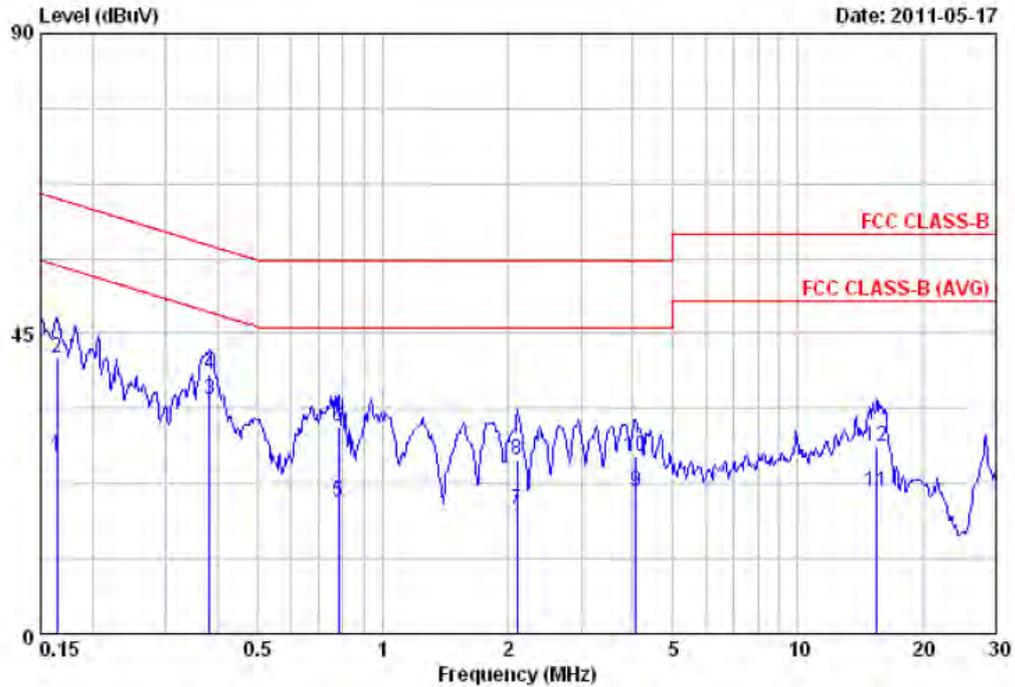
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.15	28.12	0.07	28.19	55.91	-27.72	Average
2	0.15	44.16	0.07	44.23	65.91	-21.68	QP
3	0.19	24.40	0.07	24.47	53.84	-29.37	Average
4	0.19	36.87	0.07	36.94	63.84	-26.90	QP
5	0.39	32.87	0.08	32.95	48.03	-15.08	Average
6	0.39	37.84	0.08	37.92	58.03	-20.11	QP
7	1.87	23.85	0.12	23.97	46.00	-22.03	Average
8	1.87	27.44	0.12	27.56	56.00	-28.44	QP
9	4.20	21.89	0.19	22.08	46.00	-23.92	Average
10	4.20	28.13	0.19	28.32	56.00	-27.68	QP
11	16.14	28.12	0.48	28.60	50.00	-21.40	Average
12	16.14	34.26	0.48	34.74	60.00	-25.26	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 69 %



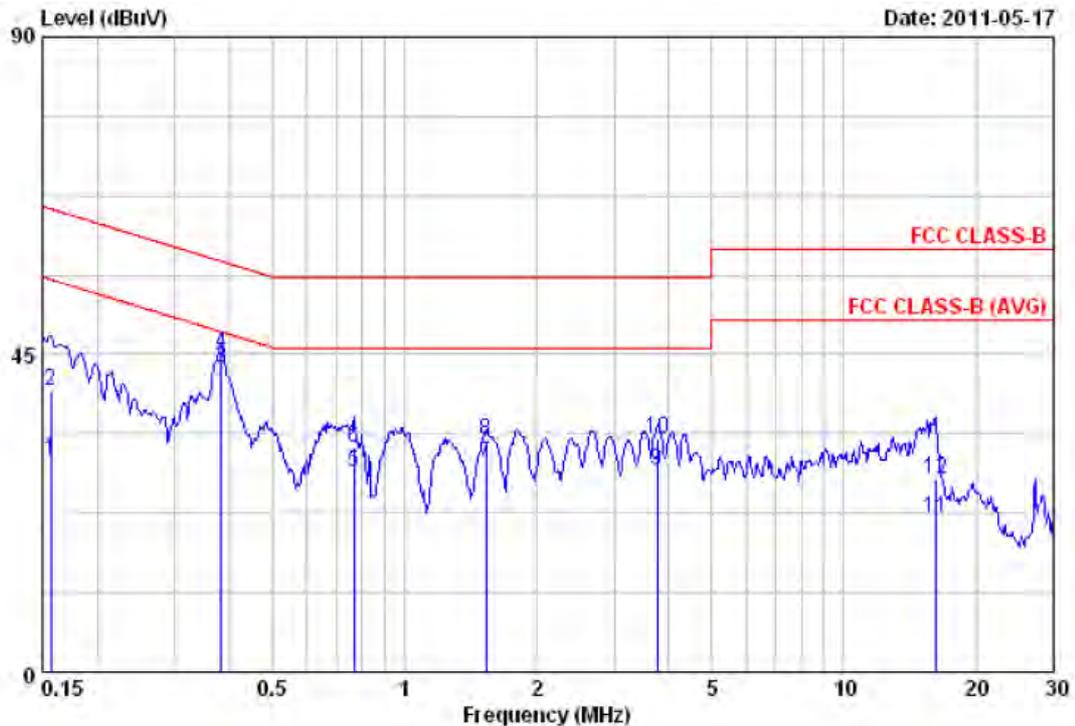
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.16	26.60	0.07	26.67	55.25	-28.58	Average
2	0.16	41.31	0.07	41.38	65.25	-23.87	QP
3	0.38	35.09	0.08	35.17	48.21	-13.04	Average
4	0.38	38.71	0.08	38.79	58.21	-19.42	QP
5	0.78	19.69	0.09	19.78	46.00	-26.22	Average
6	0.78	30.87	0.09	30.96	56.00	-25.04	QP
7	2.11	18.36	0.14	18.50	46.00	-27.50	Average
8	2.11	25.90	0.14	26.04	56.00	-29.96	QP
9	4.07	21.04	0.24	21.28	46.00	-24.72	Average
10	4.07	26.41	0.24	26.65	56.00	-29.35	QP
11	15.47	20.77	0.50	21.27	50.00	-28.73	Average
12	15.47	27.59	0.50	28.09	60.00	-31.91	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 69 %



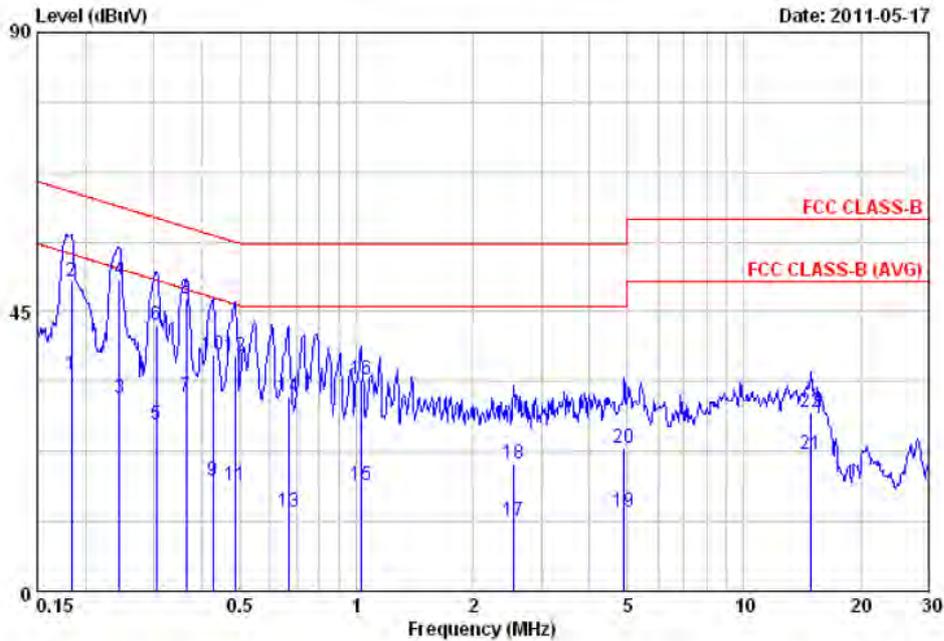
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.16	29.92	0.07	29.99	55.65	-25.66	Average
2	0.16	39.87	0.07	39.94	65.65	-25.71	QP
3	0.38	42.95	0.08	43.03	48.21	-5.18	Average
4	0.38	44.96	0.08	45.04	58.21	-13.17	QP
5	0.77	28.17	0.09	28.26	46.00	-17.74	Average
6	0.77	31.87	0.09	31.96	56.00	-24.04	QP
7	1.54	29.54	0.11	29.65	46.00	-16.35	Average
8	1.54	32.68	0.11	32.79	56.00	-23.21	QP
9	3.76	28.28	0.18	28.46	46.00	-17.54	Average
10	3.76	33.03	0.18	33.21	56.00	-22.79	QP
11	16.14	21.29	0.48	21.77	50.00	-28.23	Average
12	16.14	26.97	0.48	27.45	60.00	-32.55	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: 802.11g, CH1	Temperature	: 22 °C
Memo	: Adapter: Leader/ MT12-Y120100-A1	Humidity	: 69 %



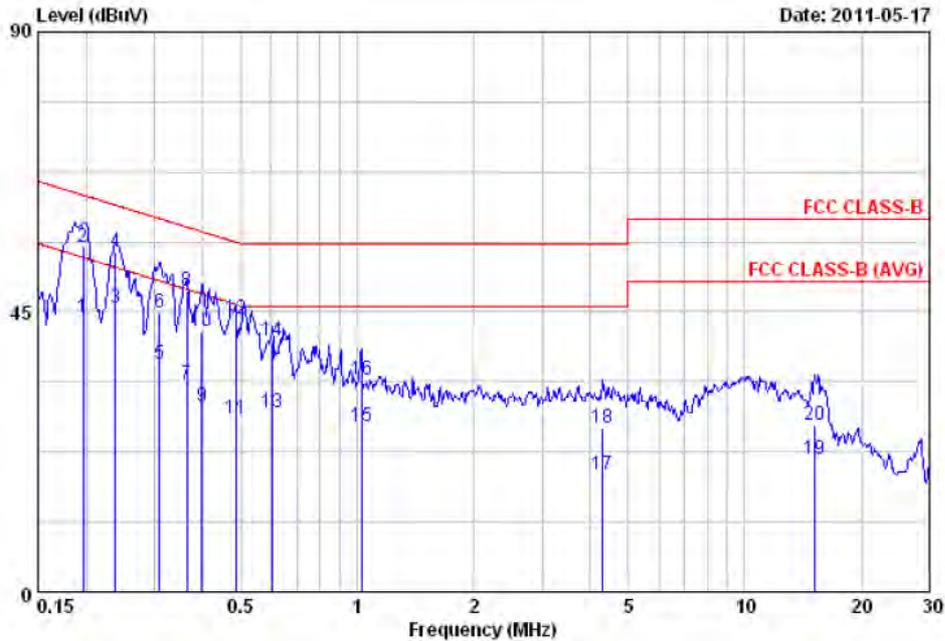
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.18	34.72	0.07	34.79	54.33	-19.54	Average
2	0.18	49.84	0.07	49.91	64.33	-14.42	QP
3	0.24	31.03	0.07	31.10	51.95	-20.85	Average
4	0.24	49.99	0.07	50.06	61.95	-11.89	QP
5	0.31	26.77	0.08	26.85	50.10	-23.25	Average
6	0.31	42.85	0.08	42.93	60.10	-17.17	QP
7	0.36	31.37	0.08	31.45	48.65	-17.20	Average
8	0.36	46.97	0.08	47.05	58.65	-11.60	QP
9	0.43	17.74	0.08	17.82	47.33	-29.51	Average
10	0.43	38.15	0.08	38.23	57.33	-19.10	QP
11	0.49	16.95	0.08	17.03	46.23	-29.20	Average
12	0.49	37.86	0.08	37.94	56.23	-18.29	QP
13	0.67	12.81	0.09	12.90	46.00	-33.10	Average
14	0.67	31.24	0.09	31.33	56.00	-24.67	QP
15	1.03	16.90	0.10	17.00	46.00	-29.00	Average
16	1.03	33.95	0.10	34.05	56.00	-21.95	QP
17	2.55	11.10	0.17	11.27	46.00	-34.73	Average
18	2.55	20.30	0.17	20.47	56.00	-35.53	QP
19	4.90	12.60	0.28	12.88	46.00	-33.12	Average
20	4.90	22.75	0.28	23.03	56.00	-32.97	QP
21	14.91	21.68	0.50	22.18	50.00	-27.82	Average
22	14.91	28.43	0.50	28.93	60.00	-31.07	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11g, CH1	Temperature	: 22 °C
Memo	: Adapter: Leader/ MT12-Y120100-A1	Humidity	: 69 %



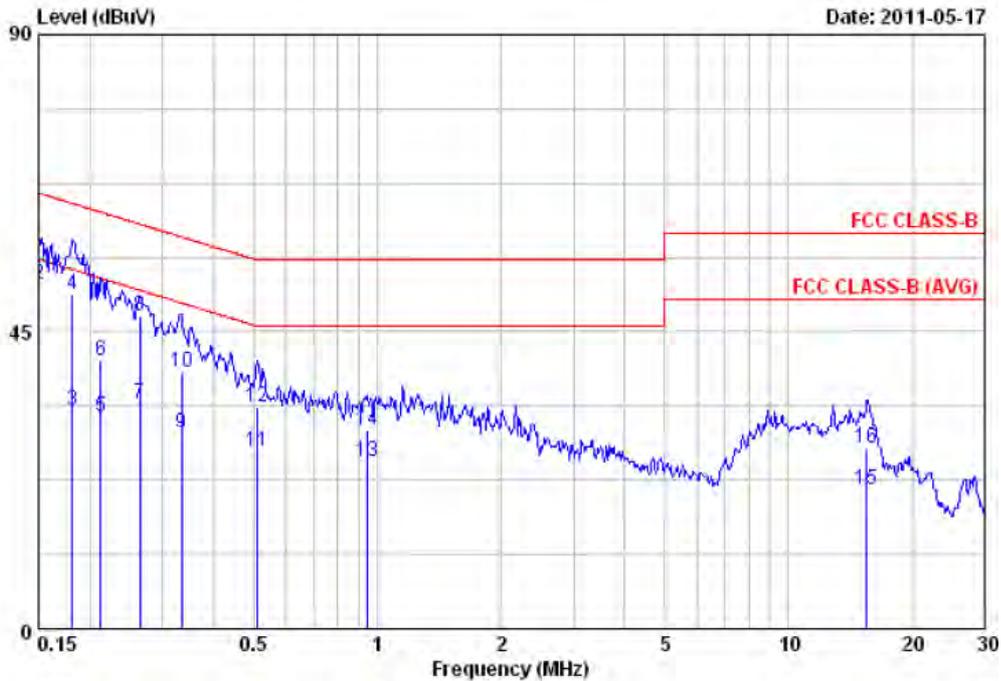
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	43.93	0.07	44.00	53.76	-9.76	Average
2	0.20	55.28	0.07	55.35	63.76	-8.41	QP
3	0.24	45.52	0.07	45.59	52.17	-6.58	Average
4	0.24	54.58	0.07	54.65	62.17	-7.52	QP
5	0.31	36.43	0.08	36.51	50.02	-13.51	Average
6	0.31	44.71	0.08	44.79	60.02	-15.23	QP
7	0.36	33.35	0.08	33.43	48.65	-15.22	Average
8	0.36	48.22	0.08	48.30	58.65	-10.35	QP
9	0.40	29.68	0.08	29.76	47.90	-18.14	Average
10	0.40	41.82	0.08	41.90	57.90	-16.00	QP
11	0.49	27.75	0.08	27.83	46.23	-18.40	Average
12	0.49	43.90	0.08	43.98	56.23	-12.25	QP
13	0.60	28.80	0.09	28.89	46.00	-17.11	Average
14	0.60	40.15	0.09	40.24	56.00	-15.76	QP
15	1.03	26.43	0.10	26.53	46.00	-19.47	Average
16	1.03	33.99	0.10	34.09	56.00	-21.91	QP
17	4.31	18.62	0.21	18.83	46.00	-27.17	Average
18	4.31	26.22	0.21	26.43	56.00	-29.57	QP
19	15.15	20.88	0.46	21.34	50.00	-28.66	Average
20	15.15	26.47	0.46	26.93	60.00	-33.07	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	: Adapter: Leader/ MT12-Y120100-A1	Humidity	: 69 %



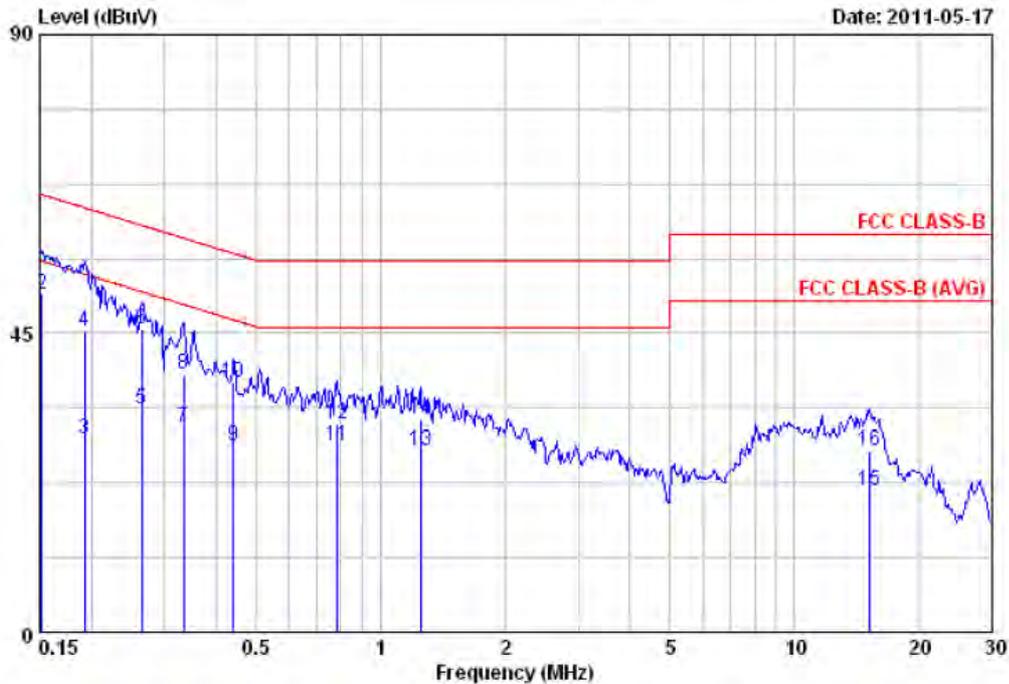
Item	Freq MHz	Read		Result dBuV/m	Limit dBuV/m	Margin dB	Remark
		Value dBuV	Factor dB/m				
1	0.15	37.63	0.07	37.70	56.00	-18.30	Average
2	0.15	51.96	0.07	52.03	66.00	-13.97	QP
3	0.18	33.04	0.07	33.11	54.42	-21.31	Average
4	0.18	50.50	0.07	50.57	64.42	-13.85	QP
5	0.21	32.01	0.07	32.08	53.10	-21.02	Average
6	0.21	40.54	0.07	40.61	63.10	-22.49	QP
7	0.26	34.03	0.07	34.10	51.29	-17.19	Average
8	0.26	47.19	0.07	47.26	61.29	-14.03	QP
9	0.33	29.53	0.08	29.61	49.35	-19.74	Average
10	0.33	38.67	0.08	38.75	59.35	-20.60	QP
11	0.51	26.66	0.09	26.75	46.00	-19.25	Average
12	0.51	33.40	0.09	33.49	56.00	-22.51	QP
13	0.95	25.13	0.10	25.23	46.00	-20.77	Average
14	0.95	30.06	0.10	30.16	56.00	-25.84	QP
15	15.47	20.64	0.50	21.14	50.00	-28.86	Average
16	15.47	26.82	0.50	27.32	60.00	-32.68	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n HT20, CH1	Temperature	: 22 °C
Memo	: Adapter: Leader/ MT12-Y120100-A1	Humidity	: 69 %



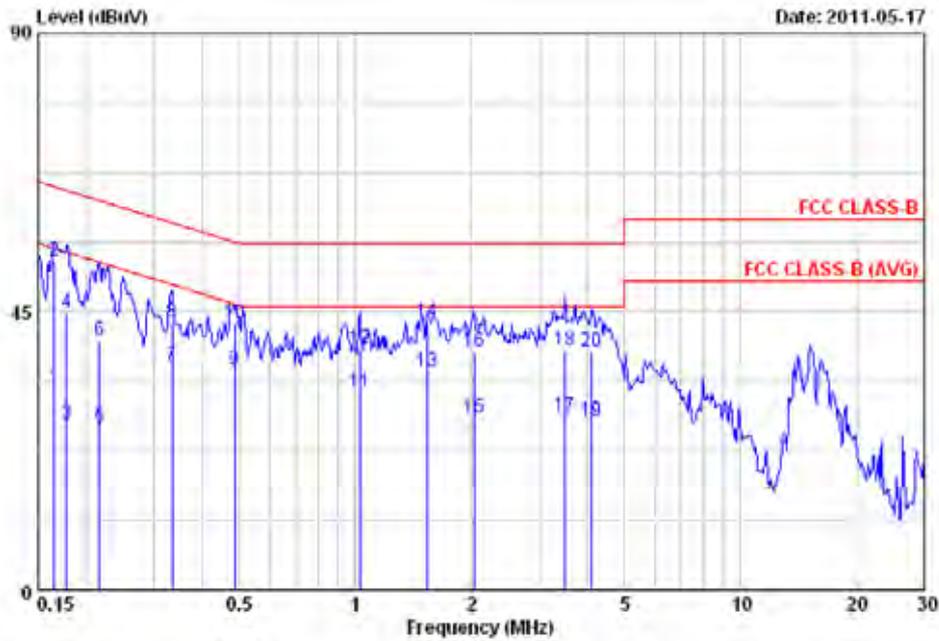
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.15	37.19	0.07	37.26	55.91	-18.65	Average
2	0.15	50.89	0.07	50.96	65.91	-14.95	QP
3	0.19	29.08	0.07	29.15	53.93	-24.78	Average
4	0.19	45.31	0.07	45.38	63.93	-18.55	QP
5	0.26	33.46	0.07	33.53	51.29	-17.76	Average
6	0.26	45.68	0.07	45.75	61.29	-15.54	QP
7	0.33	30.82	0.08	30.90	49.35	-18.45	Average
8	0.33	38.70	0.08	38.78	59.35	-20.57	QP
9	0.44	27.89	0.08	27.97	47.07	-19.10	Average
10	0.44	37.40	0.08	37.48	57.07	-19.59	QP
11	0.78	27.89	0.09	27.98	46.00	-18.02	Average
12	0.78	31.14	0.09	31.23	56.00	-24.77	QP
13	1.25	27.18	0.11	27.29	46.00	-18.71	Average
14	1.25	31.90	0.11	32.01	56.00	-23.99	QP
15	15.15	20.84	0.46	21.30	50.00	-28.70	Average
16	15.15	26.80	0.46	27.26	60.00	-32.74	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: LINE
Test Mode 2	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	: Adapter: Leader/ MT12-Y120100-A1	Humidity	: 69 %



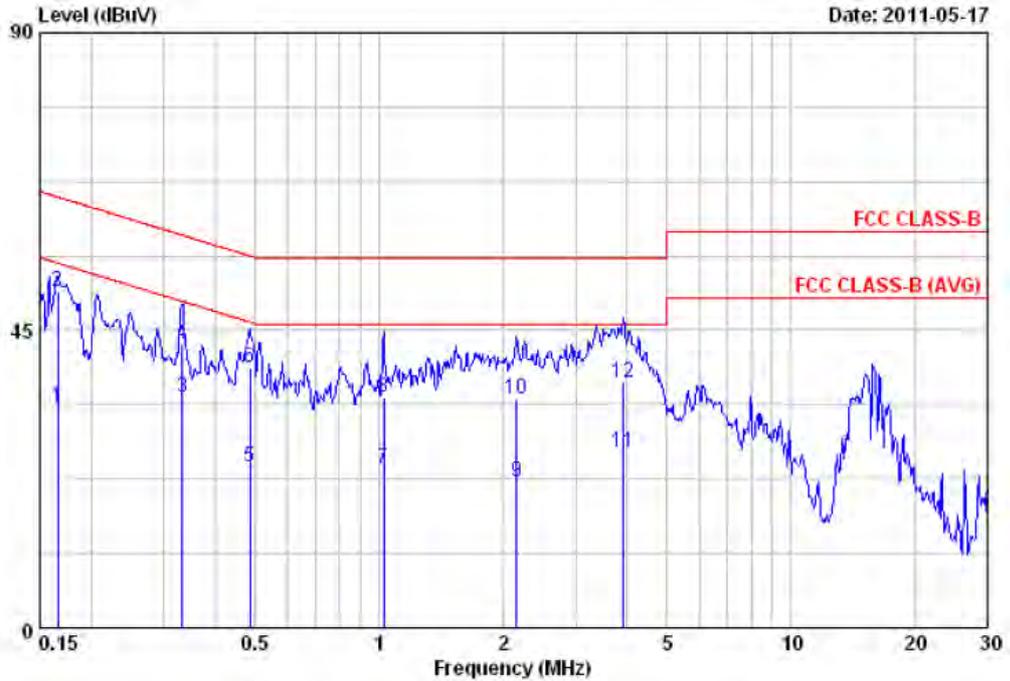
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.17	32.85	0.07	32.92	55.19	-22.27	Average
2	0.17	53.97	0.07	53.04	65.19	-12.15	QP
3	0.18	26.77	0.07	26.84	54.60	-27.76	Average
4	0.18	44.71	0.07	44.78	64.60	-19.82	QP
5	0.22	26.14	0.07	26.21	52.96	-26.75	Average
6	0.22	40.36	0.07	40.43	62.96	-22.53	QP
7	0.33	36.24	0.08	36.32	49.35	-13.03	Average
8	0.33	43.19	0.08	43.27	59.35	-16.08	QP
9	0.49	35.63	0.08	35.71	46.23	-10.52	Average
10	0.49	43.07	0.08	43.15	56.23	-13.08	QP
11	1.03	32.06	0.10	32.16	46.00	-13.84	Average
12	1.03	38.99	0.10	39.09	56.00	-16.91	QP
13	1.54	35.29	0.12	35.41	46.00	-10.59	Average
14	1.54	43.26	0.12	43.38	56.00	-12.62	QP
15	2.03	27.62	0.14	27.76	46.00	-18.24	Average
16	2.03	38.46	0.14	38.60	56.00	-17.40	QP
17	3.51	27.75	0.22	27.97	46.00	-18.03	Average
18	3.51	38.69	0.22	38.91	56.00	-17.09	QP
19	4.11	27.18	0.24	27.42	46.00	-18.58	Average
20	4.11	38.25	0.24	38.49	56.00	-17.51	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n HT40, CH3	Temperature	: 22 °C
Memo	: Adapter: Leader/ MT12-Y120100-A1	Humidity	: 69 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.17	33.34	0.07	33.41	55.16	-21.75	Average
2	0.17	50.73	0.07	50.80	65.16	-14.36	QP
3	0.33	34.88	0.08	34.96	49.37	-14.41	Average
4	0.33	42.85	0.08	42.93	59.37	-16.44	QP
5	0.49	24.22	0.08	24.30	46.23	-21.93	Average
6	0.49	39.26	0.08	39.34	56.23	-16.89	QP
7	1.03	24.09	0.10	24.19	46.00	-21.81	Average
8	1.03	34.68	0.10	34.78	56.00	-21.22	QP
9	2.16	21.94	0.12	22.06	46.00	-23.94	Average
10	2.16	34.58	0.12	34.70	56.00	-21.30	QP
11	3.90	26.44	0.19	26.63	46.00	-19.37	Average
12	3.90	36.99	0.19	37.18	56.00	-18.82	QP

Notes:

1. Result = Read Value + Factor
2. Factor = LISN Factor + Cable Loss
3. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
4. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
5. The data is worse case.

Test engineer: Ben



## 5. Test of Radiated Emission

### 5.1 Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance Meters	Radiated ( $\mu$ V / M)	Radiated (dB $\mu$ V / M)
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

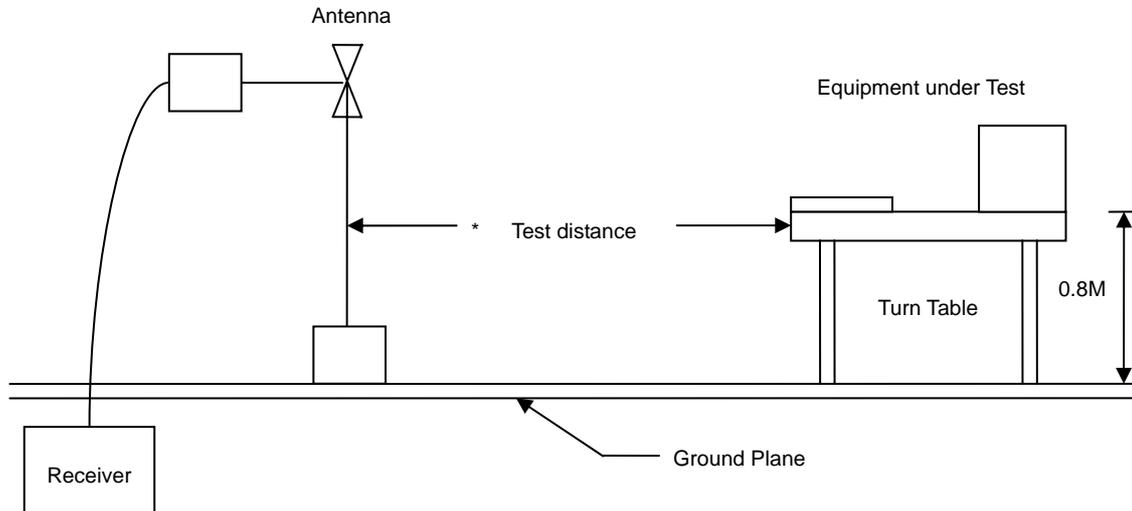
Frequency (MHz)	Distance Meters	Radiated (dB $\mu$ V / M)
30-230	10	30
230-1000	10	37

### 5.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- “Cone of radiation” has been considered to be 3dB bandwidth of the measurement antenna.



### 5.3 Typical Test Setup



### 5.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
Amplifier	Agilent	8447D	2944A10531	2011/01/21	2012/01/20
Bilog Antenna	Schaffner	CBL6112D	22242	2011/02/09	2012/02/08
EMI Receiver	HP	8546A	3807A00454	2010/09/27	2011/09/26
RF Filter Section	HP	85460A	3704A00386	2010/09/27	2011/09/26
SPECTRUM ANALYZER	R&S	FSP40	100219	2010/11/05	2011/11/04
HORN ANTENNA	EMCO	3115	31589	2011/05/02	2012/05/01
Preamplifier	Agilent	8449B	3008A01954	2011/03/02	2012/03/01

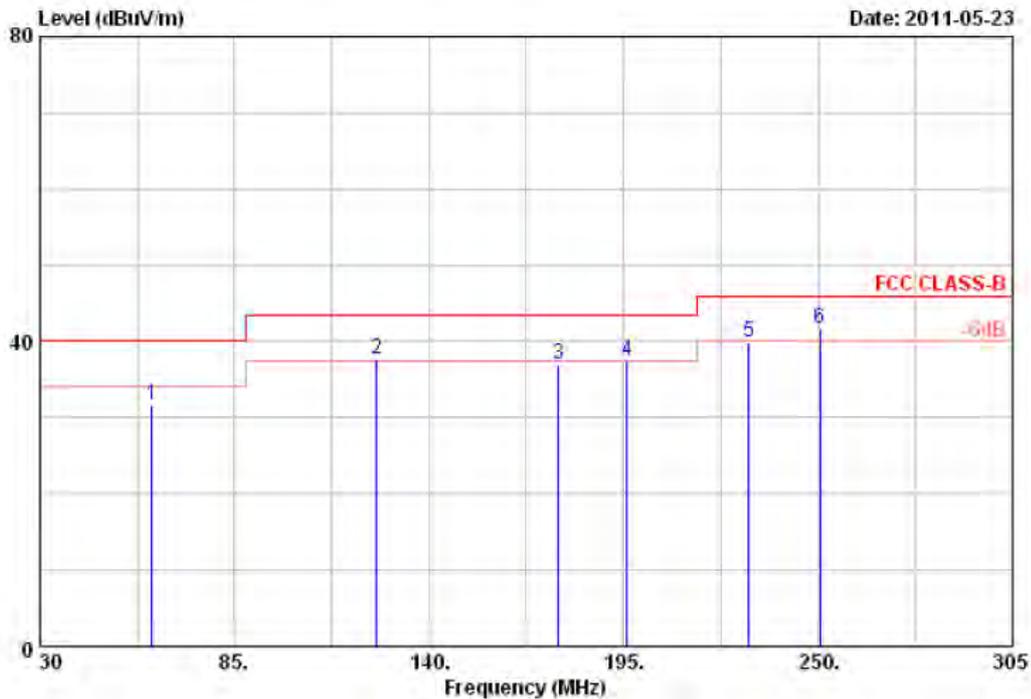


### 5.5 Test Result and Data

The 9KHz-30MHz spurious emission is under limit 20dB more.

#### 5.5.1 Test Result and Data of Transmitter

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



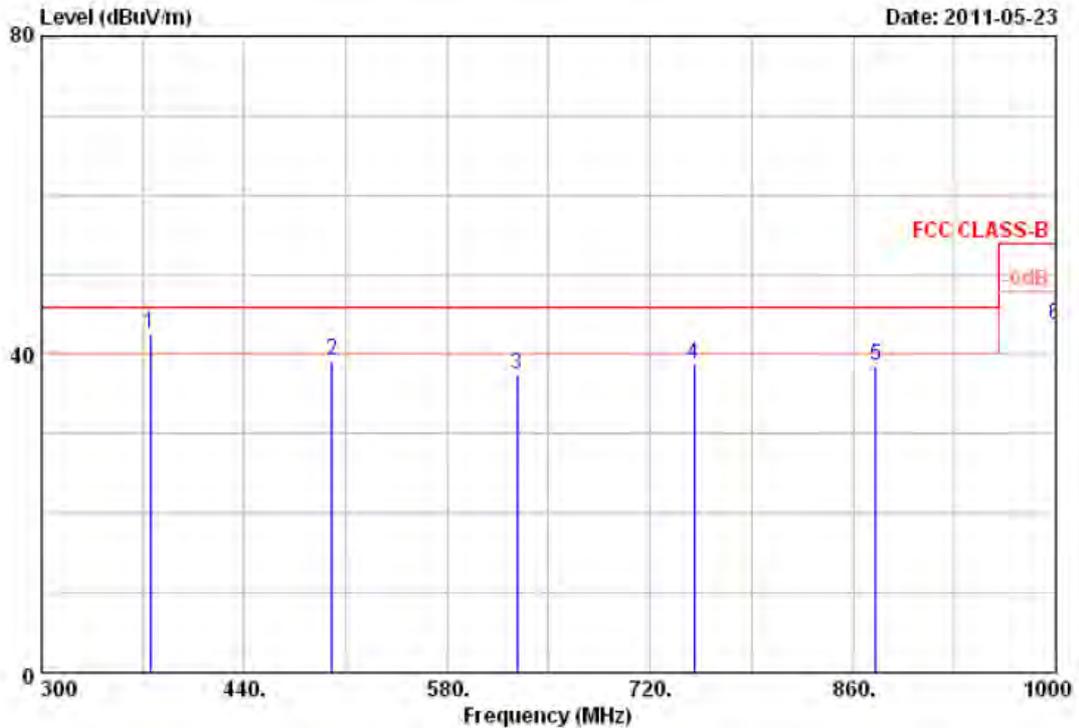
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	61.65	39.50	-7.87	31.63	40.00	-8.37	Peak	100	360
2	125.10	35.35	2.22	37.57	43.50	-5.93	QP	100	360
3	176.50	42.71	-5.71	37.00	43.50	-6.50	Peak	100	360
4	196.00	41.53	-4.20	37.33	43.50	-6.17	Peak	100	360
5	230.50	47.34	-7.39	39.95	46.00	-6.05	Peak	100	360
6	250.50	47.10	-5.37	41.73	46.00	-4.27	QP	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



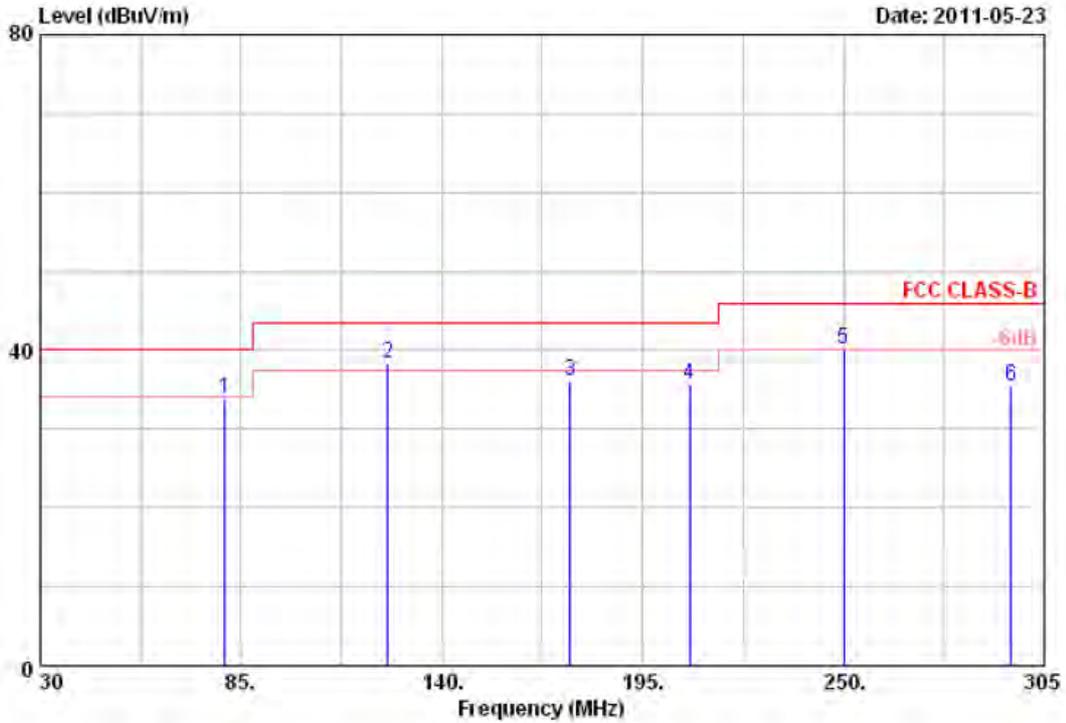
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.30	43.62	-1.11	42.51	46.00	-3.49	QP	100	0
2	500.00	37.92	1.30	39.22	46.00	-6.78	Peak	100	0
3	628.00	32.34	5.16	37.50	46.00	-8.50	Peak	100	0
4	750.50	25.56	13.18	38.74	46.00	-7.26	Peak	100	0
5	875.60	23.25	15.36	38.61	46.00	-7.39	Peak	100	0
6	999.93	31.90	11.81	43.71	54.00	-10.29	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



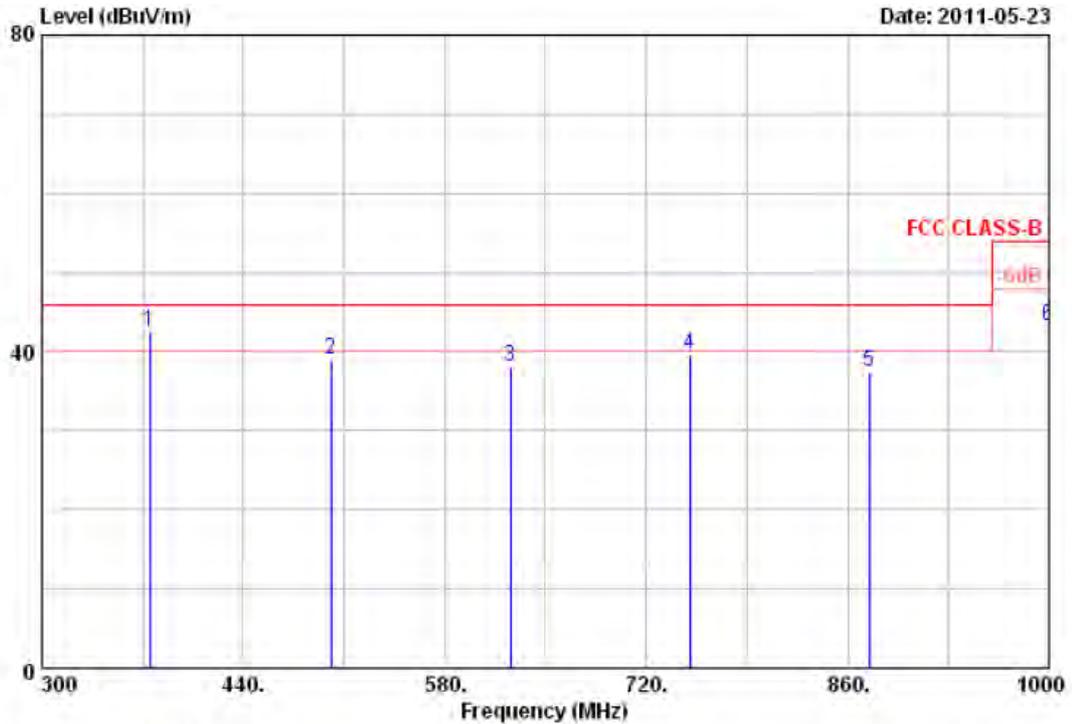
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	80.50	46.45	-12.61	33.84	40.00	-6.16	Peak	100	360
2	125.25	44.36	-6.05	38.31	43.50	-5.19	QP	100	360
3	175.25	47.26	-11.12	36.14	43.50	-7.36	Peak	100	360
4	207.85	43.77	-8.10	35.67	43.50	-7.83	Peak	100	360
5	250.10	44.03	-4.01	40.02	46.00	-5.98	QP	100	360
6	296.00	40.30	-4.91	35.39	46.00	-10.61	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



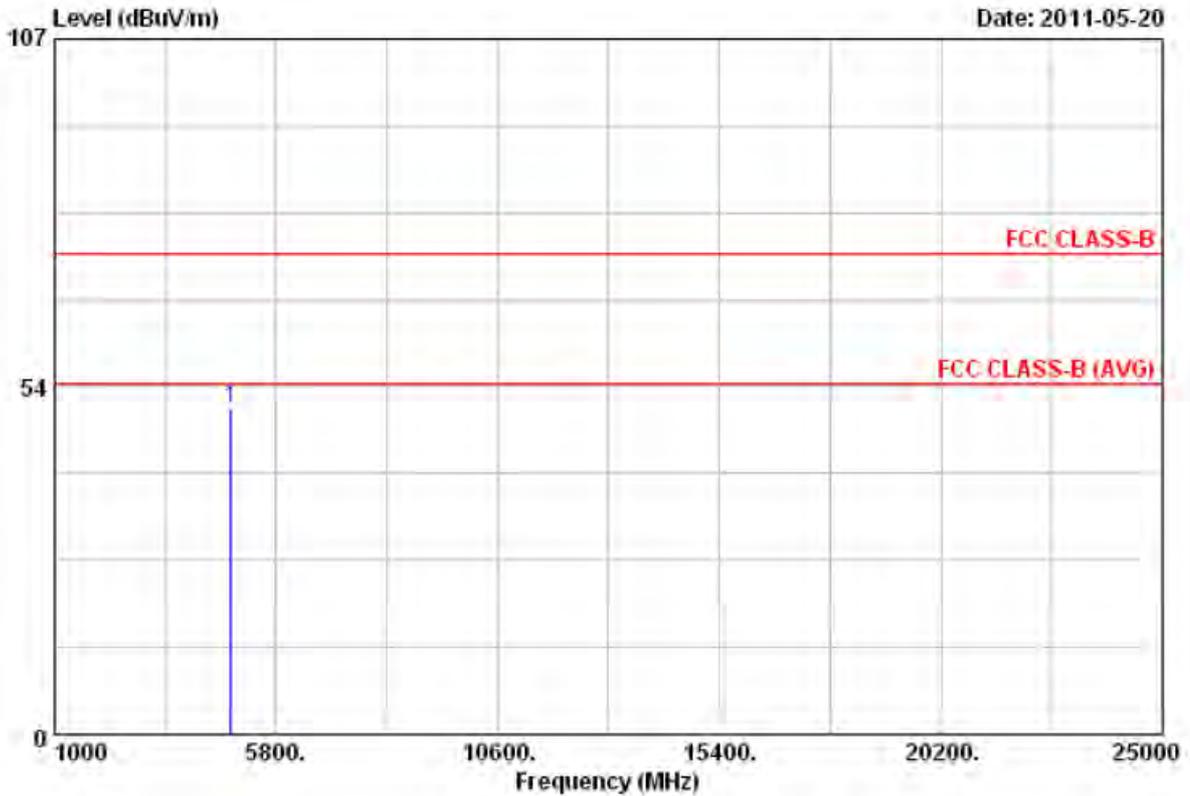
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	46.87	-4.40	42.47	46.00	-3.53	QP	100	0
2	501.00	34.68	4.33	39.01	46.00	-6.99	Peak	100	0
3	625.60	28.47	9.70	38.17	46.00	-7.83	Peak	100	0
4	750.00	25.25	14.37	39.62	46.00	-6.38	Peak	100	0
5	874.80	21.66	15.83	37.49	46.00	-8.51	Peak	100	0
6	999.90	25.61	17.68	43.29	54.00	-10.71	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz, so that the channel 1 or 3(for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH1	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



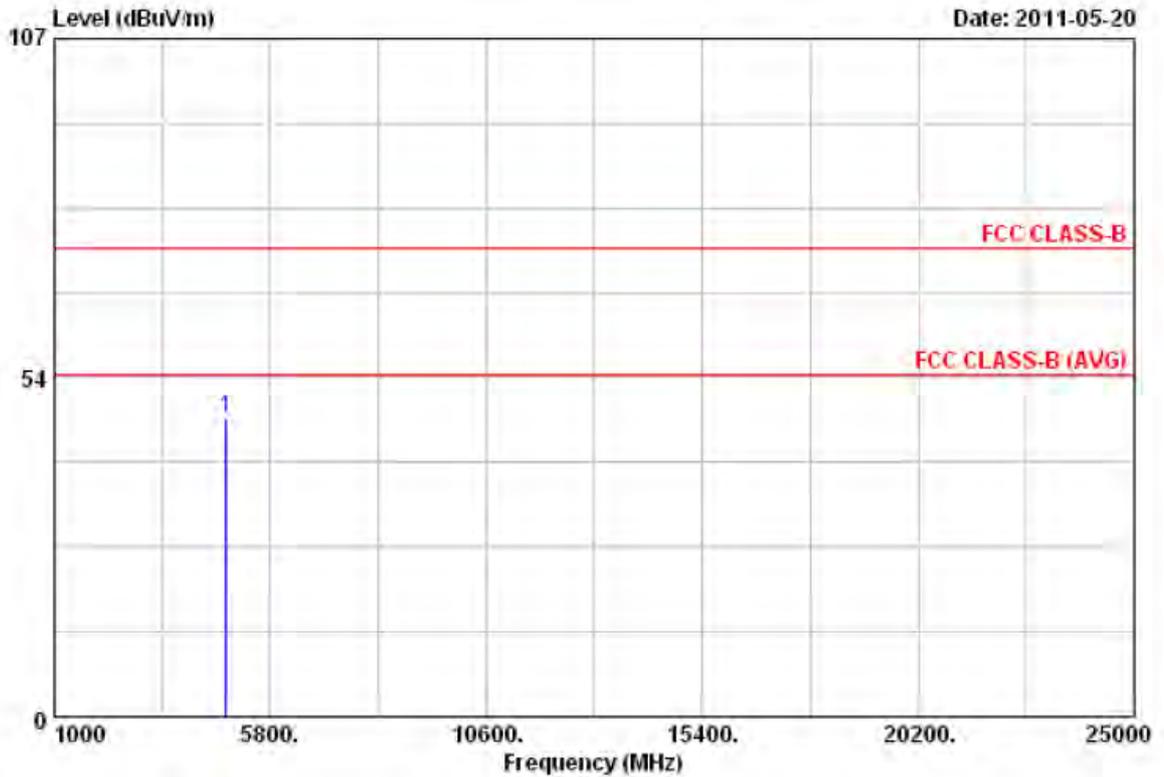
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	53.74	-3.53	50.21	74.00	-23.79	Peak	100	292

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH1	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



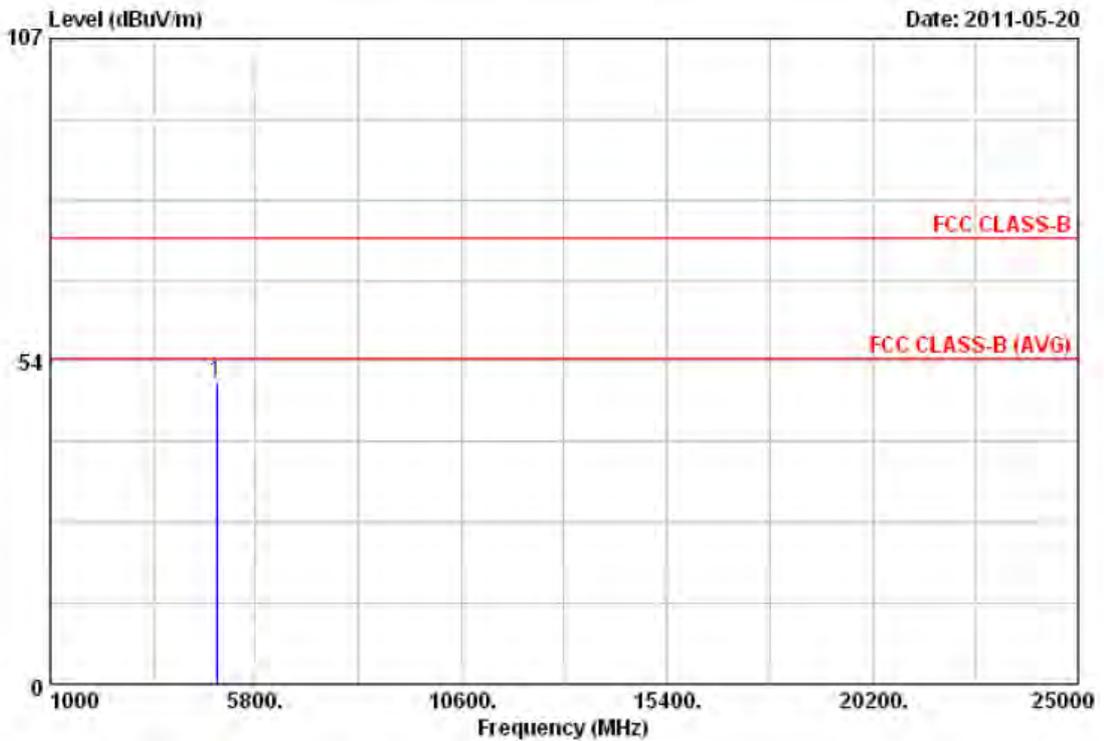
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	50.48	-3.53	46.95	74.00	-27.05	Peak	100	126

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH6	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



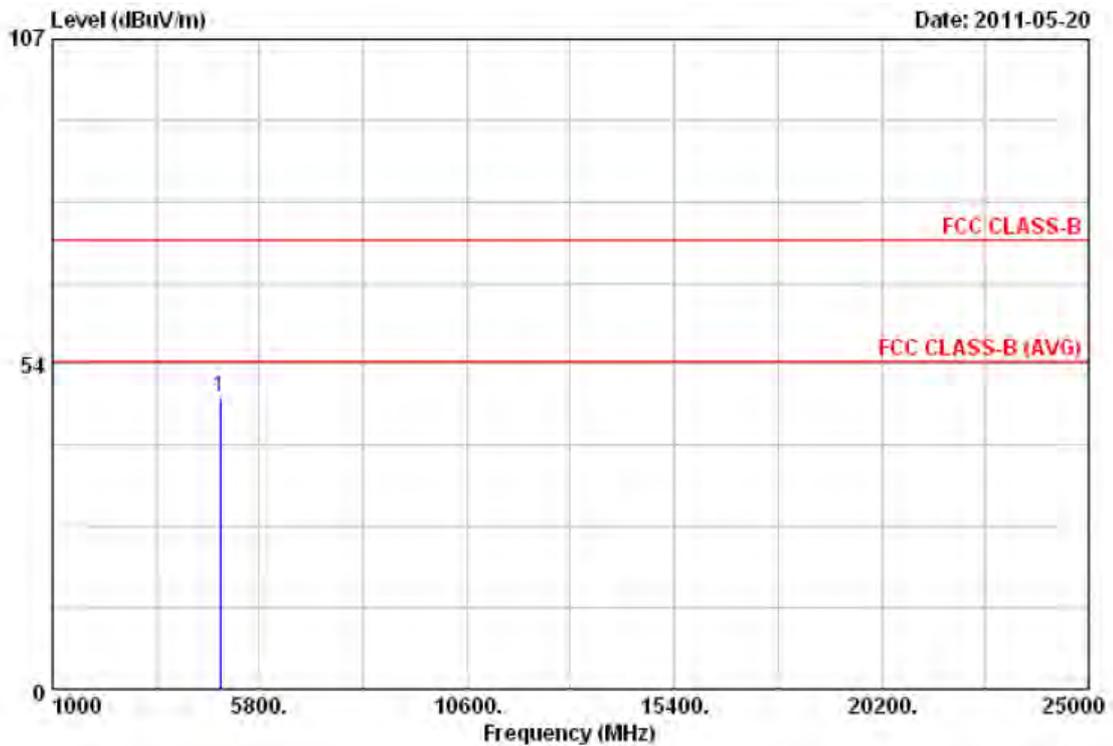
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	53.36	-3.34	50.02	74.00	-23.98	Peak	100	117

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH6	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



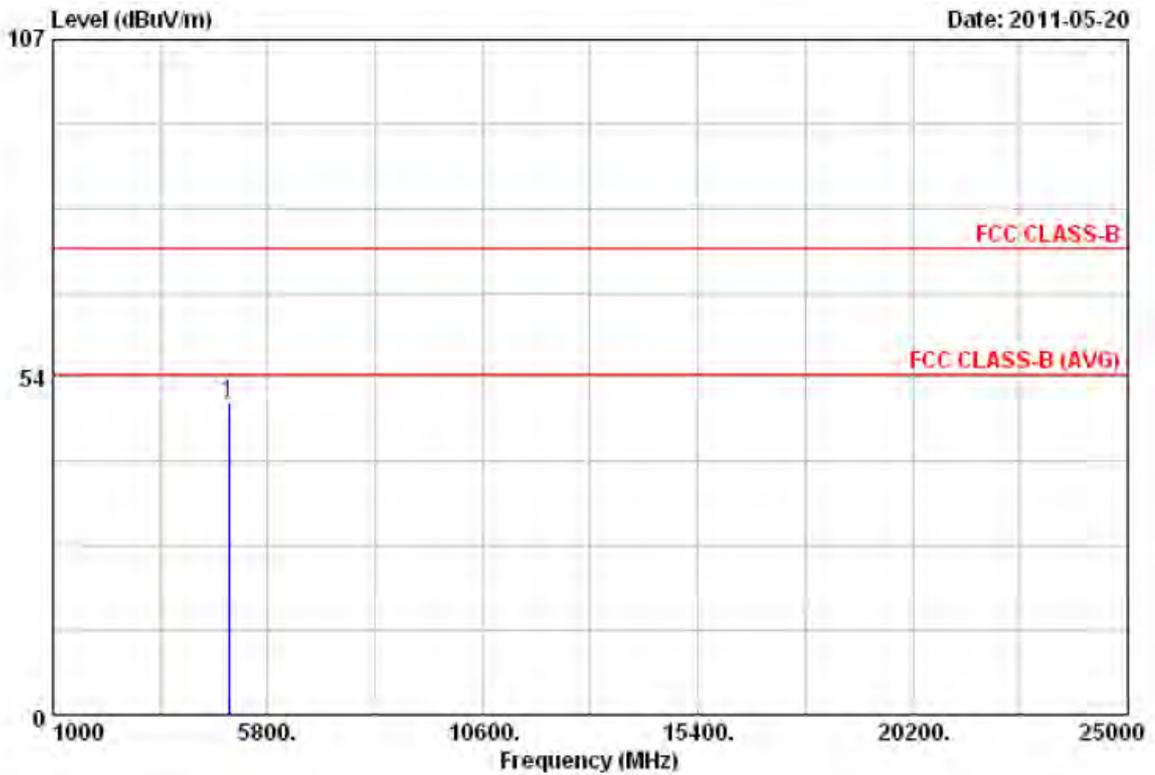
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	51.21	-3.34	47.87	74.00	-36.13	Peak	100	221

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11b, CH11	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



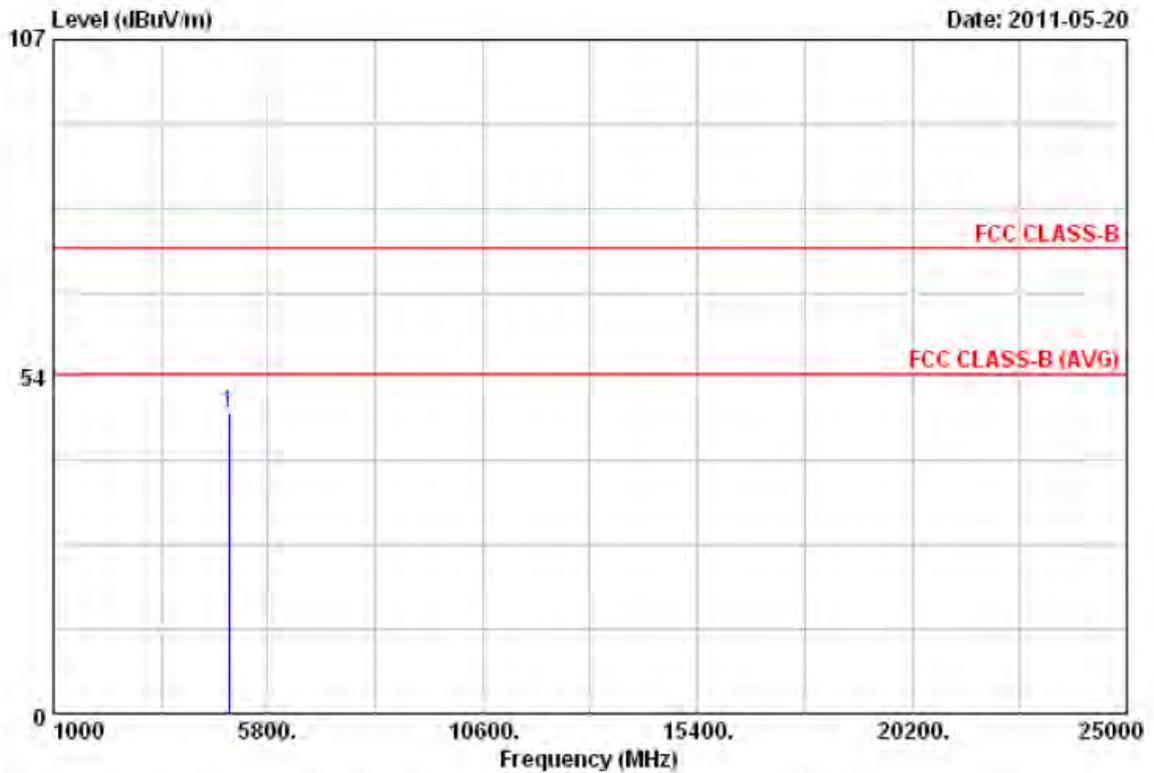
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	52.74	-3.15	49.59	74.00	-24.41	Peak	100	125

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11b, CH11	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



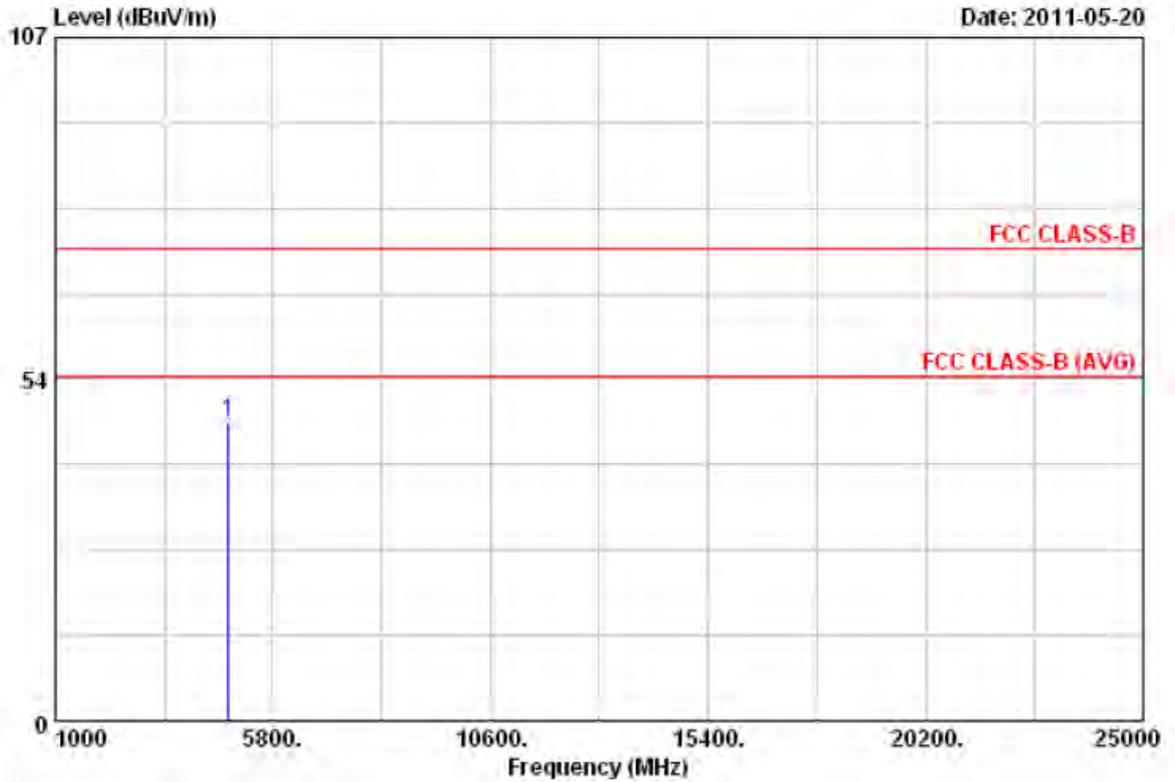
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	50.82	-3.15	47.67	74.00	-26.33	Peak	100	203

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH1	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



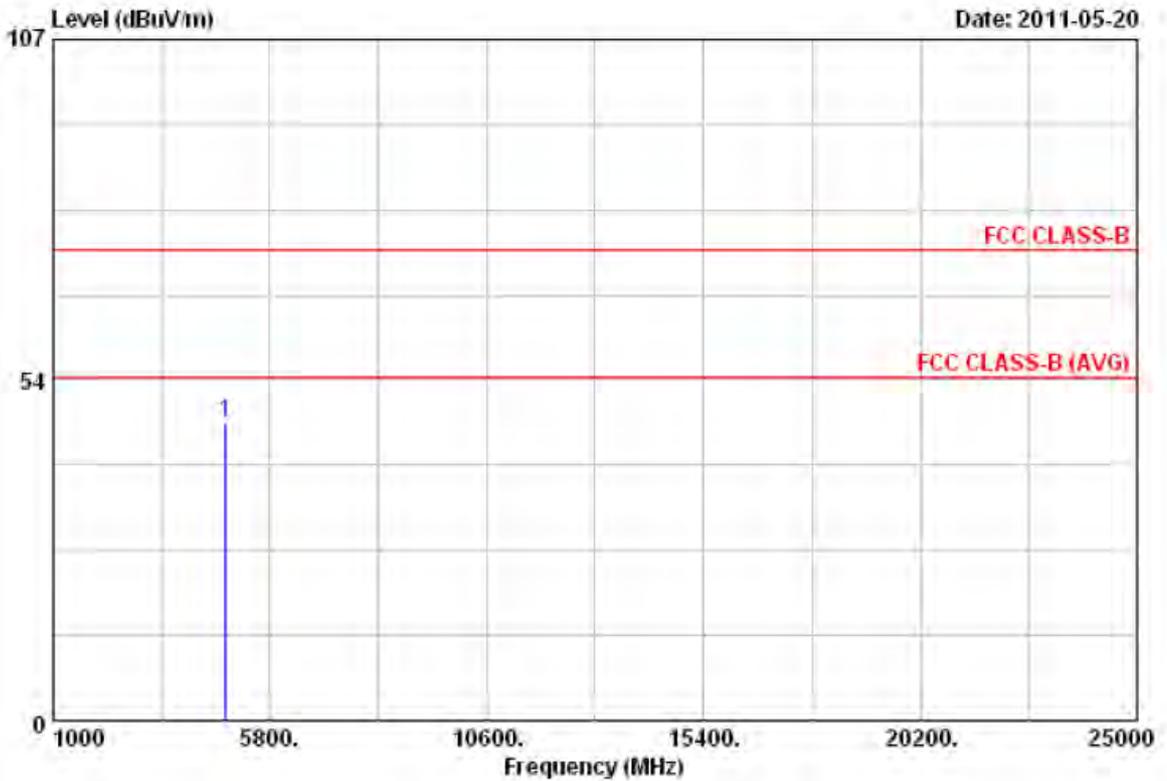
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	50.38	-3.53	46.85	74.00	-27.15	Peak	100	84

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH1	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



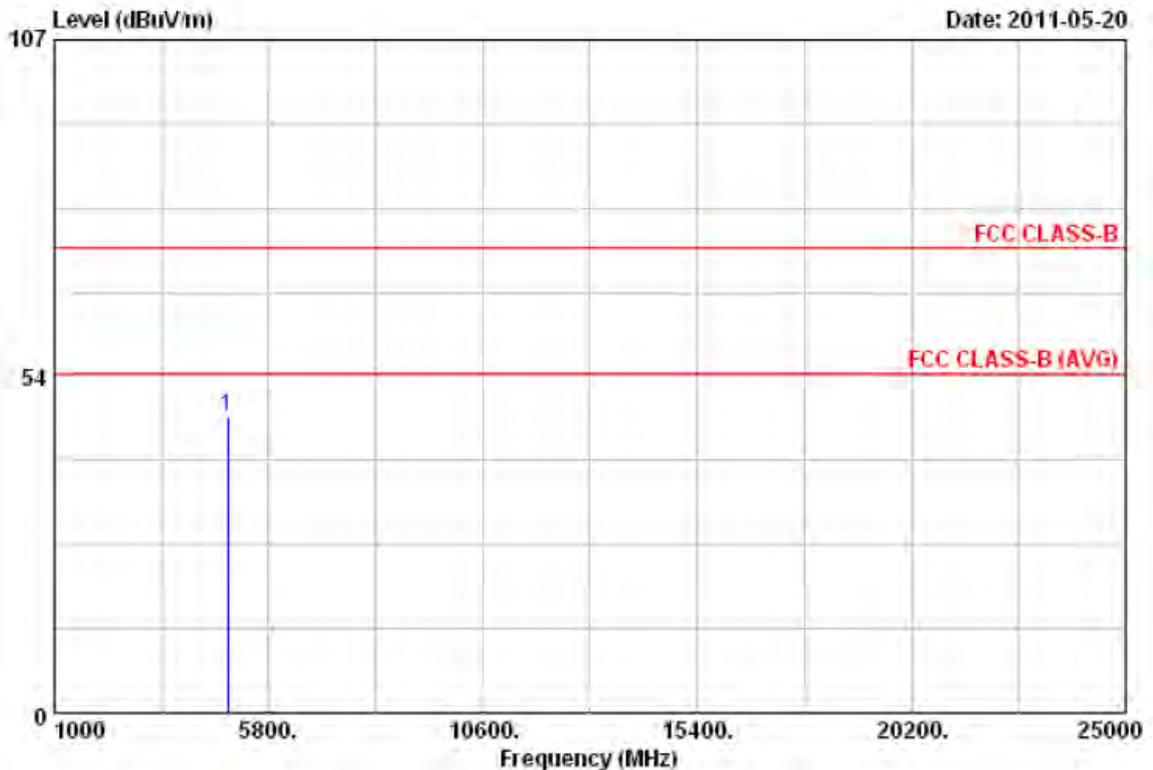
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4624.00	50.24	-3.53	46.71	74.00	-27.29	Peak	100	211

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH6	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



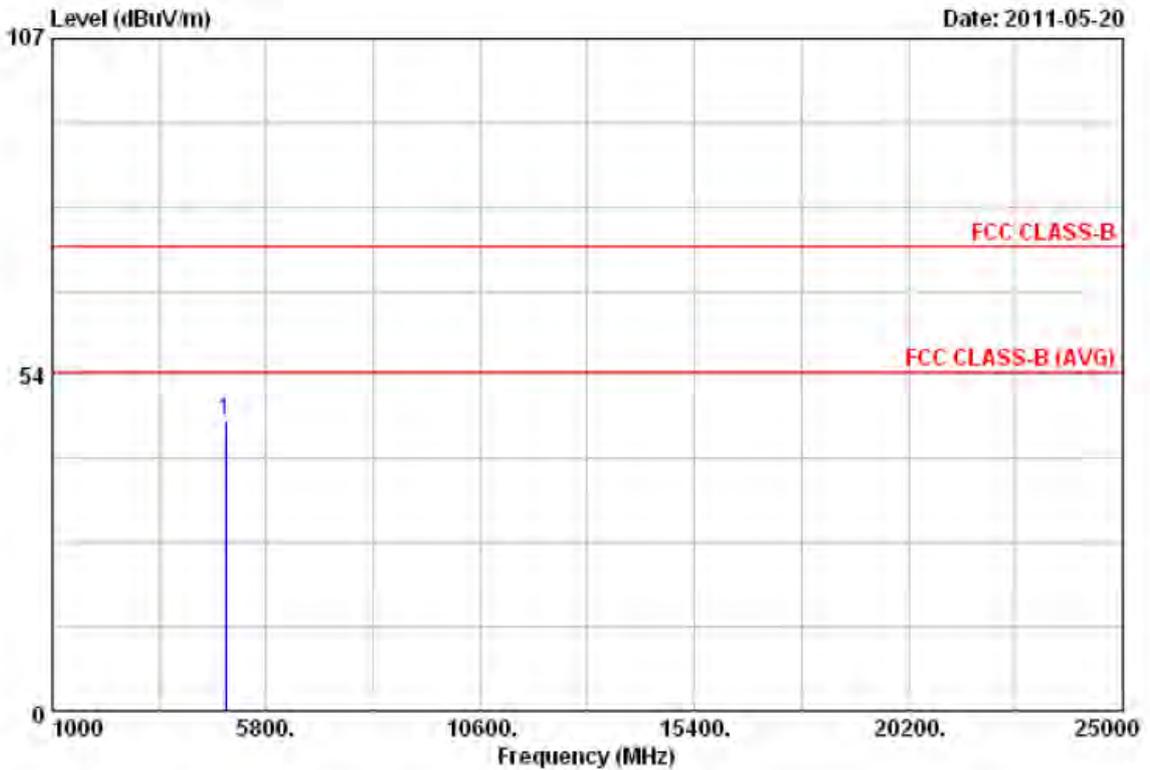
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	50.50	-3.34	47.16	74.00	-26.64	Peak	100	99

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH6	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



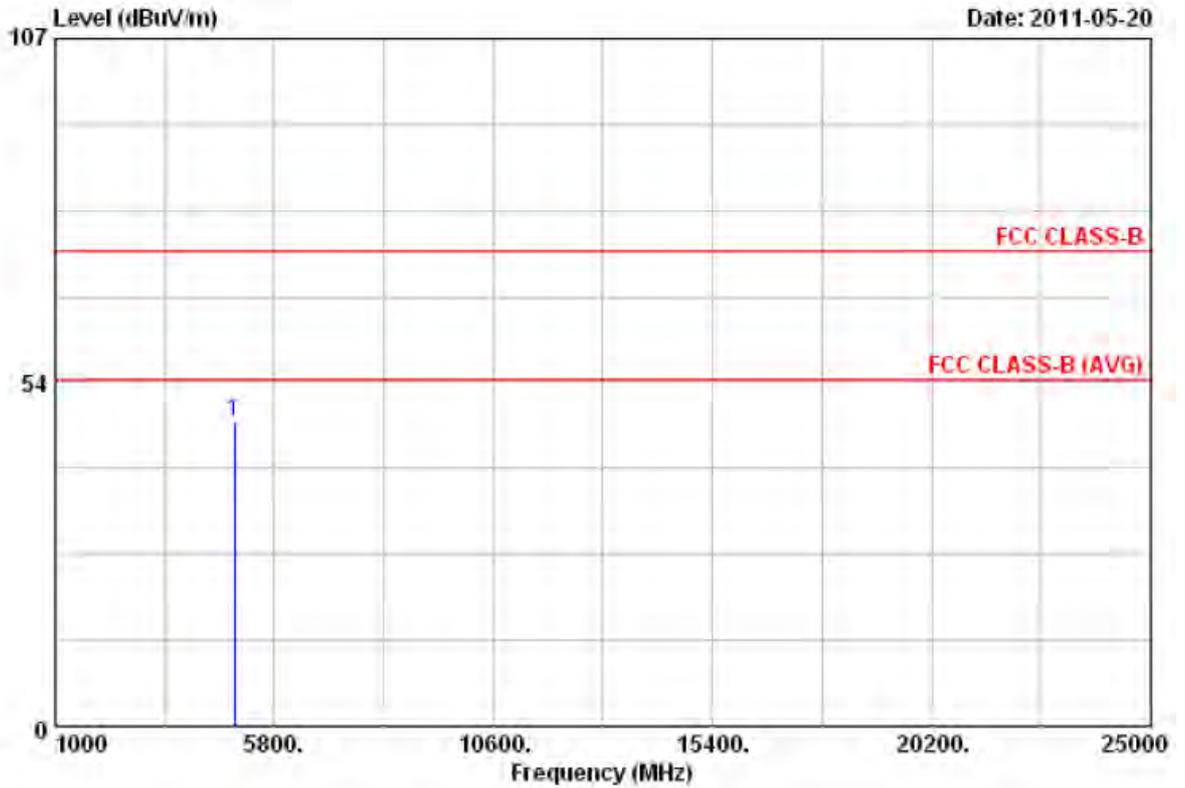
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	49.56	-3.34	46.22	74.00	-27.78	Peak	100	217

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11g, CH11	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



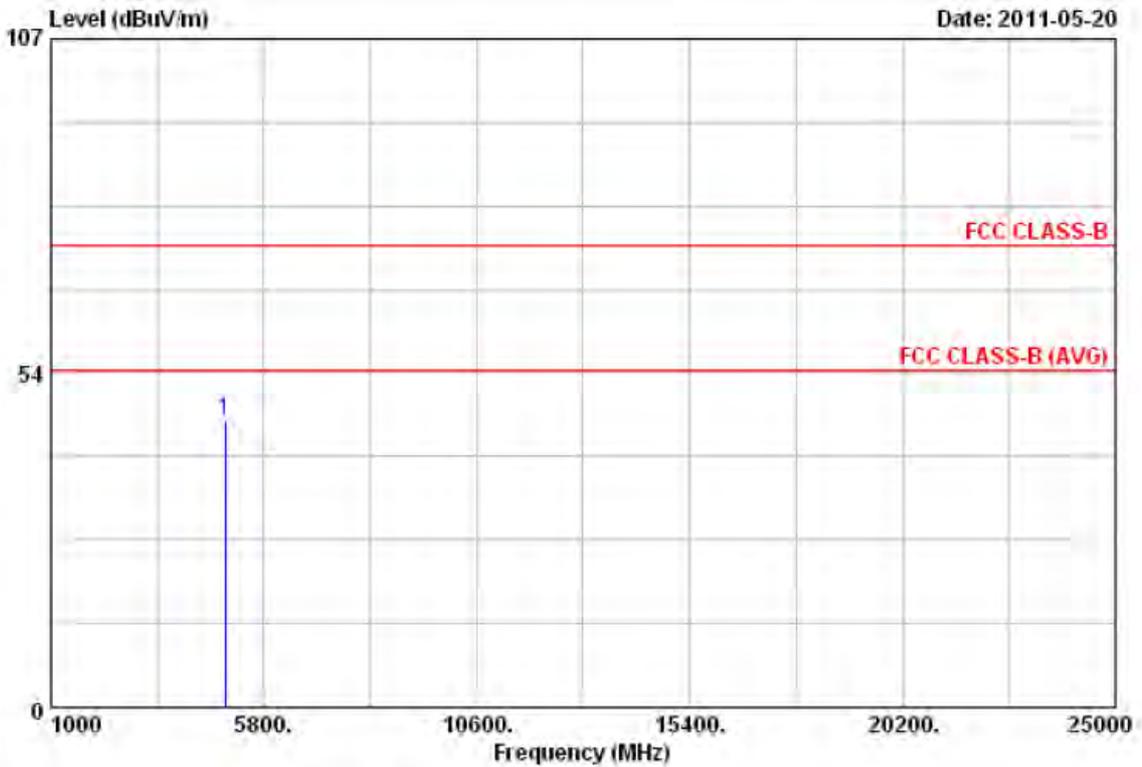
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	50.61	-3.15	47.46	74.00	-26.54	Peak	100	123

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11g, CH11	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



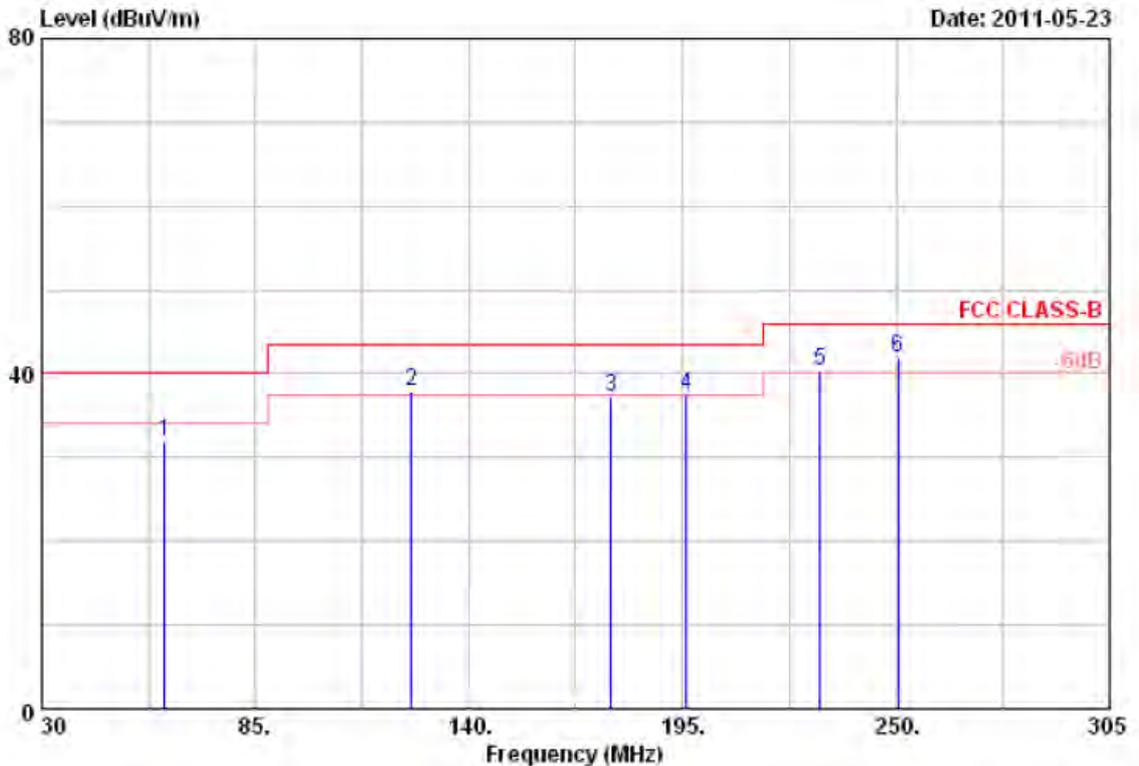
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	49.17	-3.15	46.02	74.00	-27.98	Peak	100	183

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



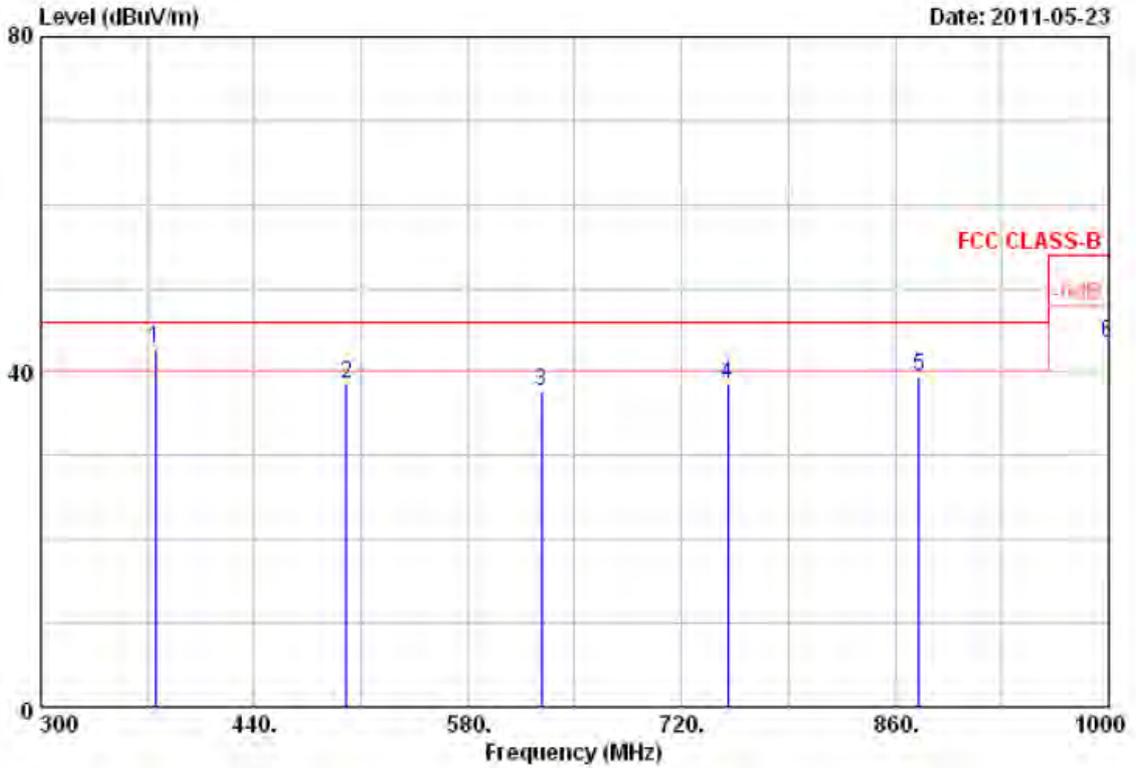
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	61.65	39.65	-7.87	31.78	40.00	-8.22	Peak	100	360
2	125.10	35.68	2.22	37.90	43.50	-5.60	QP	100	360
3	176.50	42.95	-5.71	37.24	43.50	-6.26	Peak	100	360
4	196.00	41.66	-4.20	37.46	43.50	-6.04	Peak	100	360
5	230.50	47.65	-7.39	40.26	46.00	-5.74	Peak	100	360
6	250.50	47.29	-5.37	41.92	46.00	-4.08	QP	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11g/n mode are all the same, so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences, all spurious emission of 802.11g/n mode at channel 1, 6, 11 or 3, 6, 9 (for HT40) are almost the same below 1GHz, so that the channel 1 or 3 (for HT40) was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



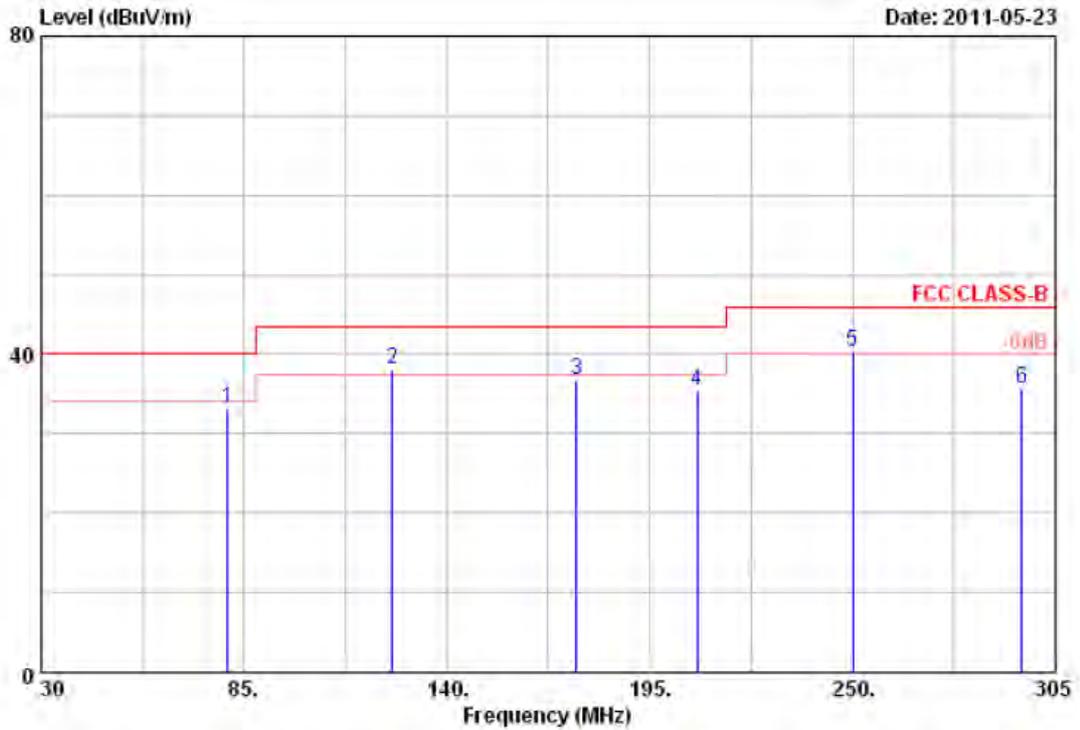
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.30	43.99	-1.11	42.88	46.00	-3.12	QP	100	0
2	500.00	37.35	1.30	38.65	46.00	-7.35	Peak	100	0
3	628.00	32.59	5.16	37.75	46.00	-8.25	Peak	100	0
4	750.50	25.39	13.18	38.57	46.00	-7.43	Peak	100	0
5	875.60	23.98	15.36	39.34	46.00	-6.66	Peak	100	0
6	999.93	31.56	11.81	43.37	54.00	-10.63	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



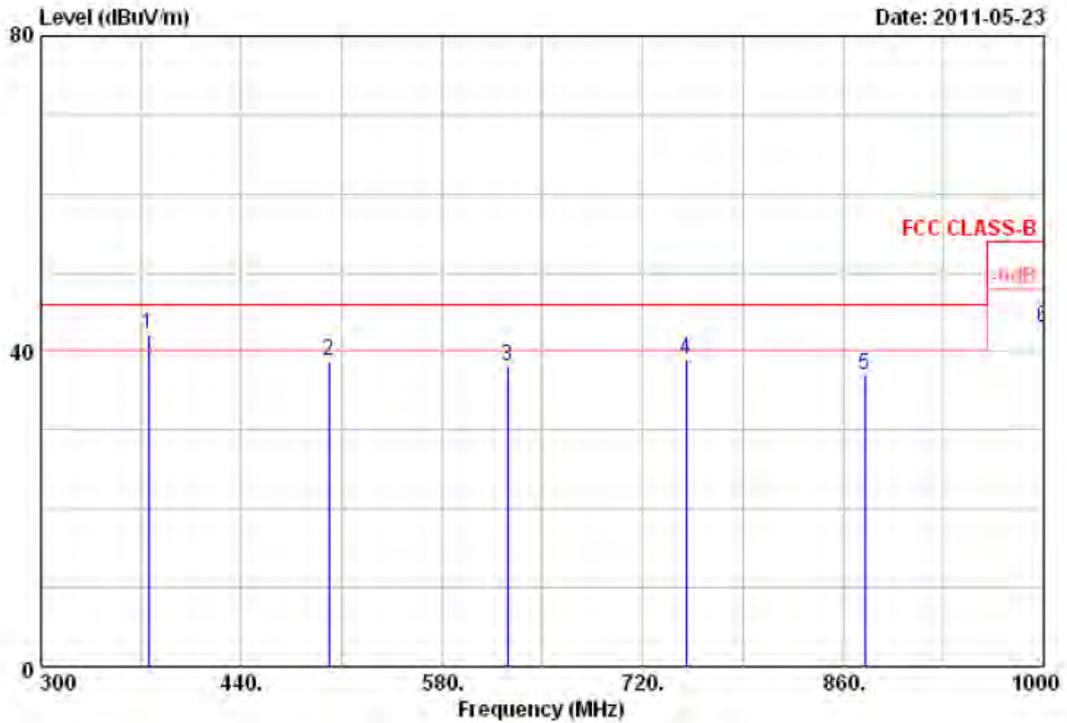
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	80.50	45.89	-12.61	33.28	40.00	-6.72	Peak	100	360
2	125.25	44.22	-6.05	38.17	43.50	-5.33	QP	100	360
3	175.25	47.80	-11.12	36.68	43.50	-6.82	Peak	100	360
4	207.85	43.56	-8.10	35.46	43.50	-8.04	Peak	100	360
5	250.10	44.32	-4.01	40.31	46.00	-5.69	QP	100	360
6	296.00	40.66	-4.91	35.75	46.00	-10.25	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



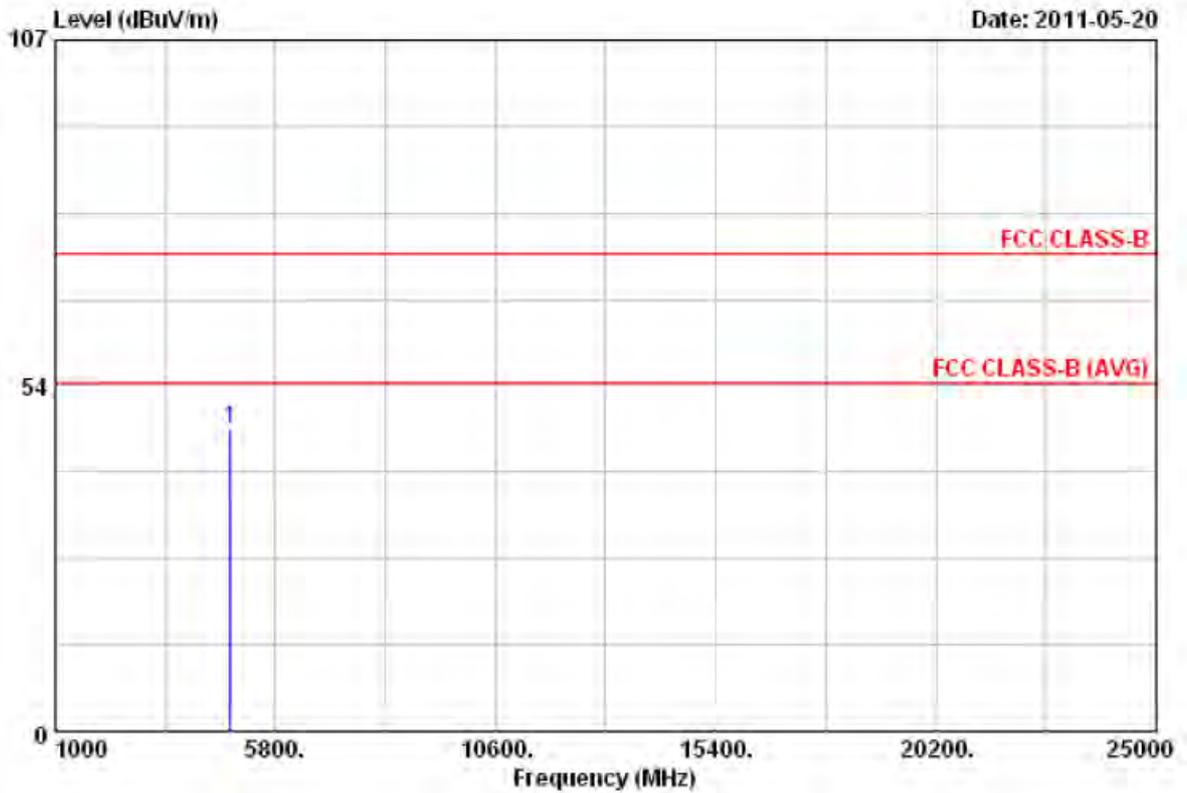
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	46.50	-4.40	42.10	46.00	-3.90	QP	100	0
2	501.00	34.49	4.33	38.82	46.00	-7.18	Peak	100	0
3	625.60	28.50	9.70	38.20	46.00	-7.80	Peak	100	0
4	750.00	24.66	14.37	39.03	46.00	-6.97	Peak	100	0
5	874.80	21.20	15.83	37.03	46.00	-8.97	Peak	100	0
6	999.90	25.25	17.68	42.93	54.00	-11.07	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



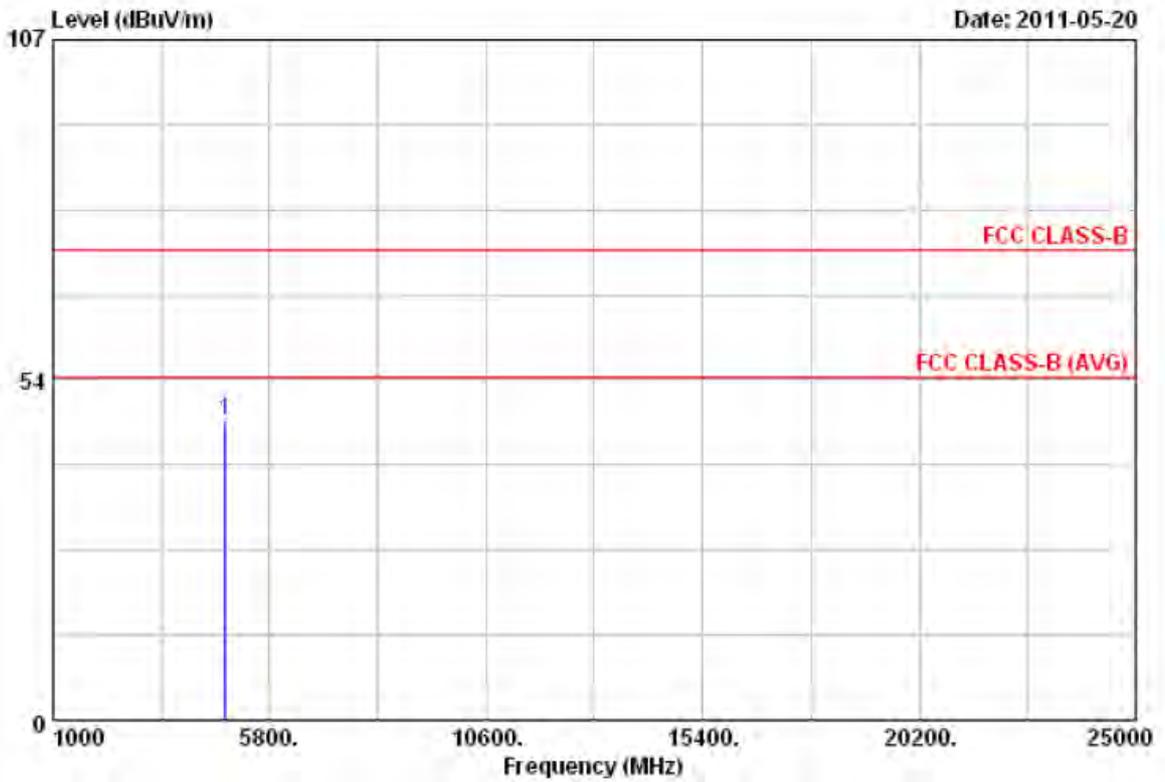
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	50.43	-3.53	46.90	74.00	-27.10	Peak	100	226

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH1	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



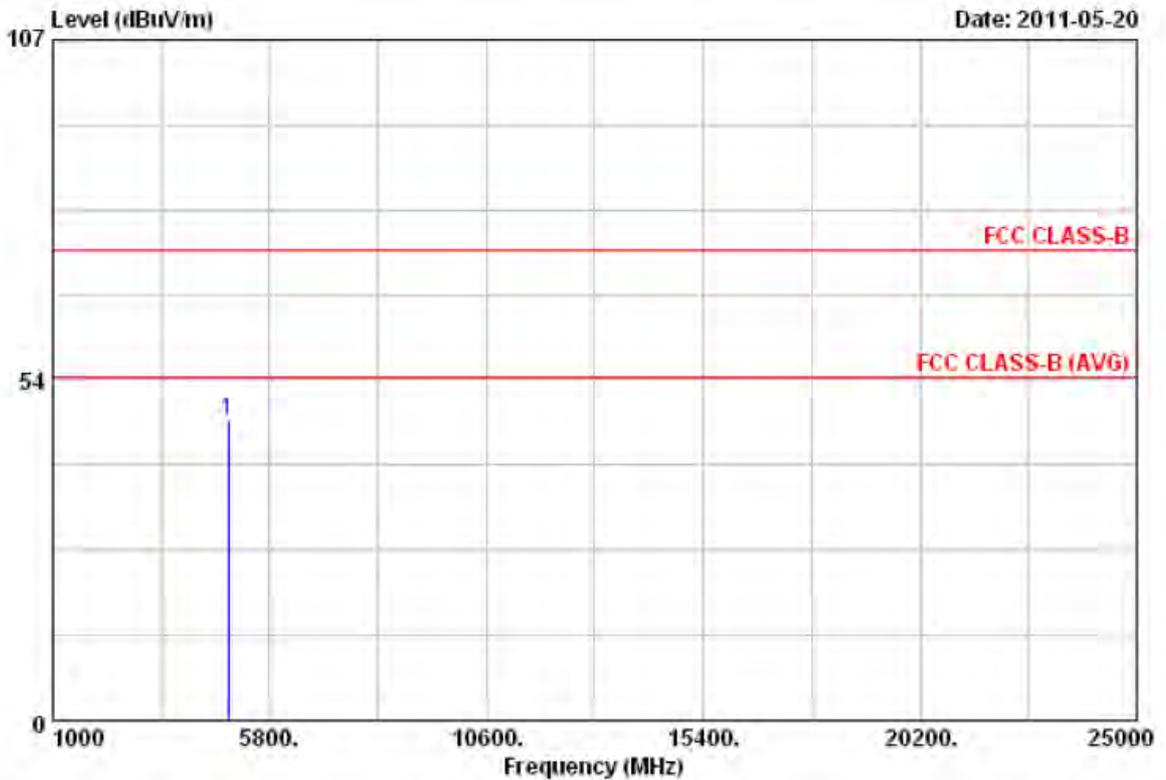
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	50.66	-3.53	47.13	74.00	-26.87	Peak	100	117

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH6	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



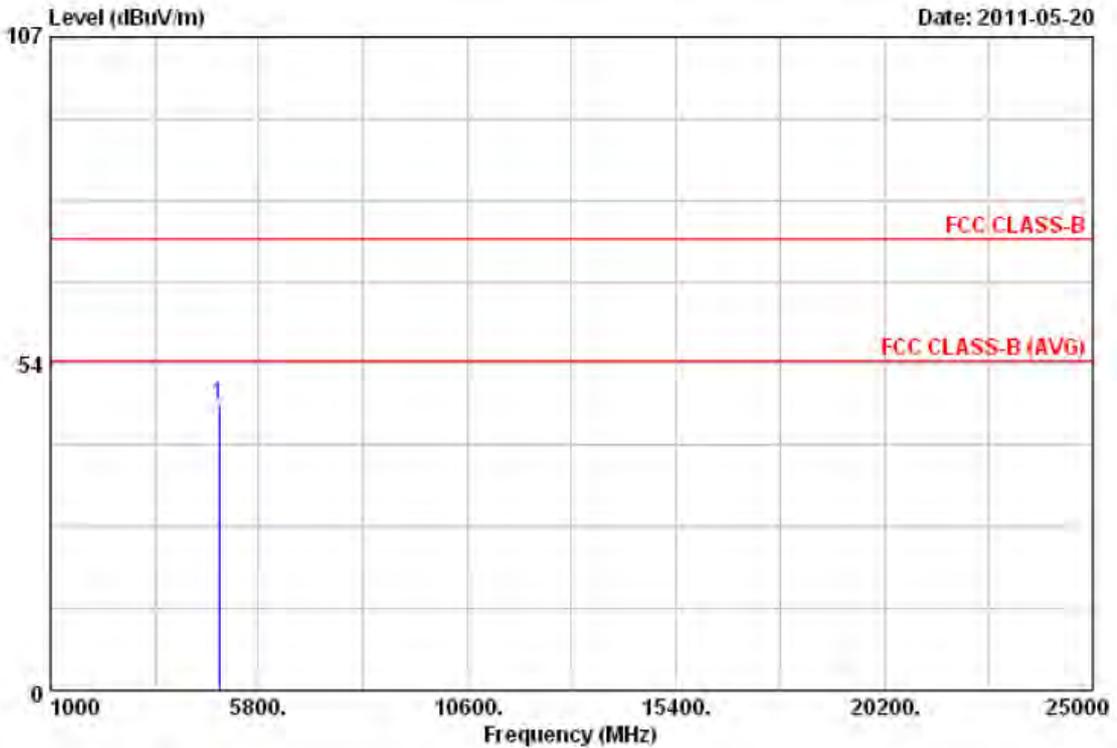
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	50.35	-3.34	47.01	74.00	-26.99	Peak	100	120

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH6	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



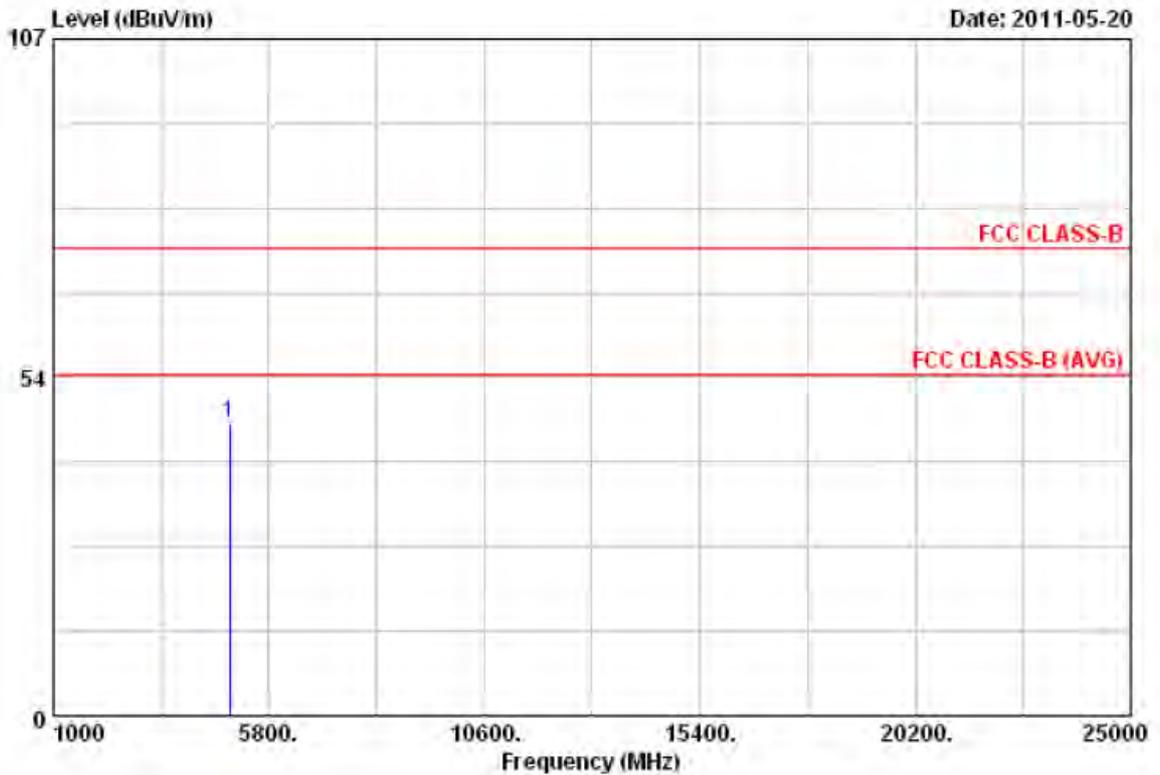
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	50.05	-3.34	46.71	74.00	-27.29	Peak	100	214

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT20, CH11	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



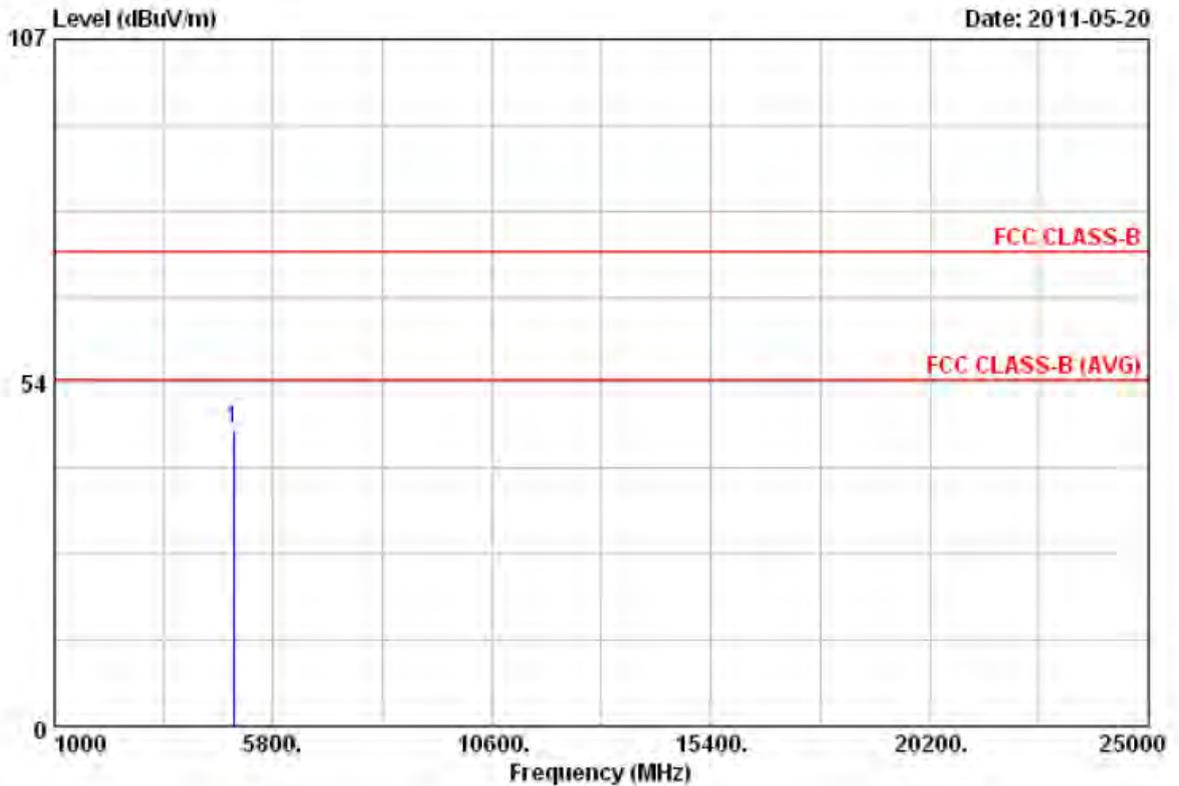
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	49.21	-3.15	46.06	74.00	-27.94	Peak	100	231

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT20, CH11	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



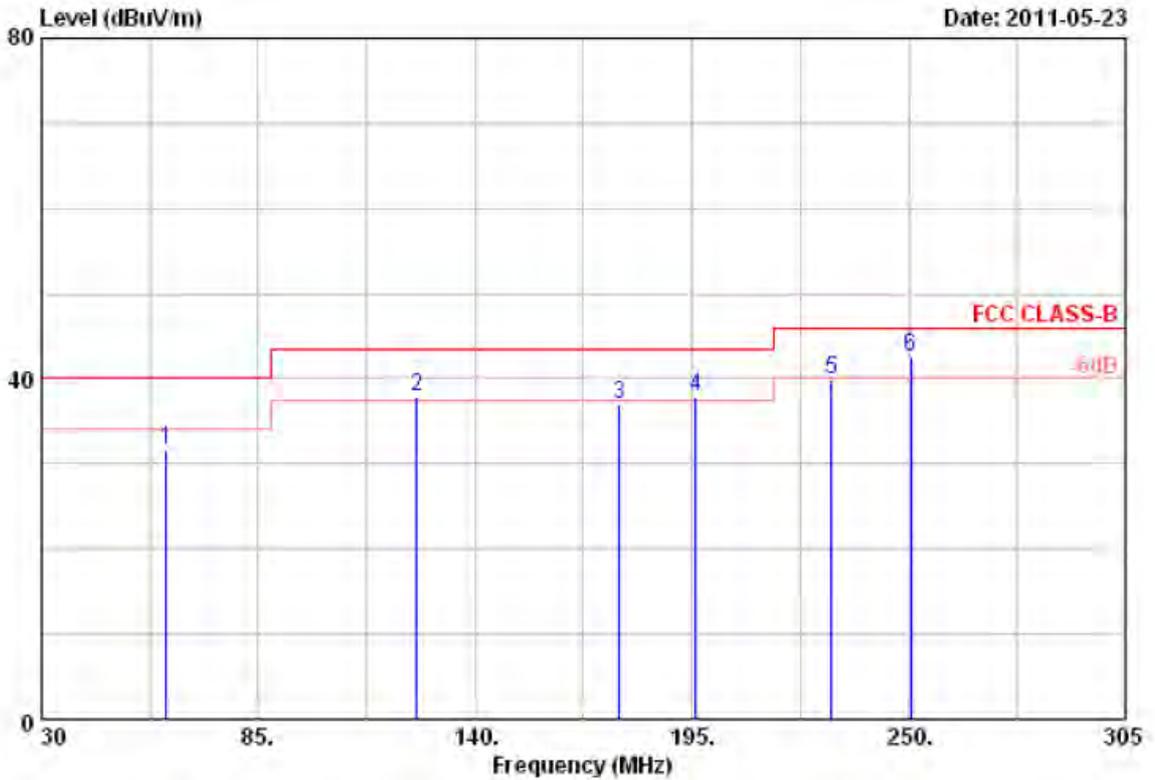
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	49.32	-3.15	46.17	74.00	-27.83	Peak	100	128

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



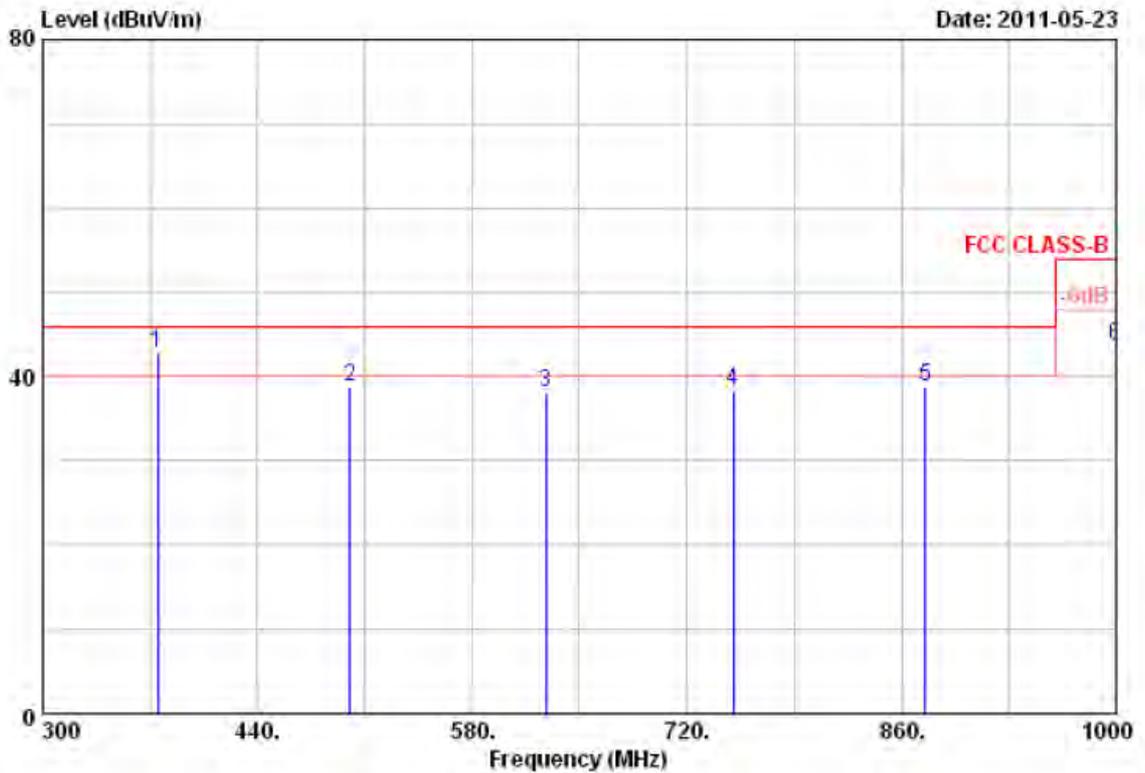
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	61.65	39.47	-7.87	31.60	40.00	-8.40	Peak	100	360
2	125.10	35.56	2.22	37.78	43.50	-5.72	QP	100	360
3	176.50	42.61	-5.71	36.90	43.50	-6.60	Peak	100	360
4	196.00	41.98	-4.20	37.78	43.50	-5.72	QP	100	360
5	230.50	47.35	-7.39	39.96	46.00	-6.04	Peak	100	360
6	250.50	47.98	-5.37	42.61	46.00	-3.39	QP	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



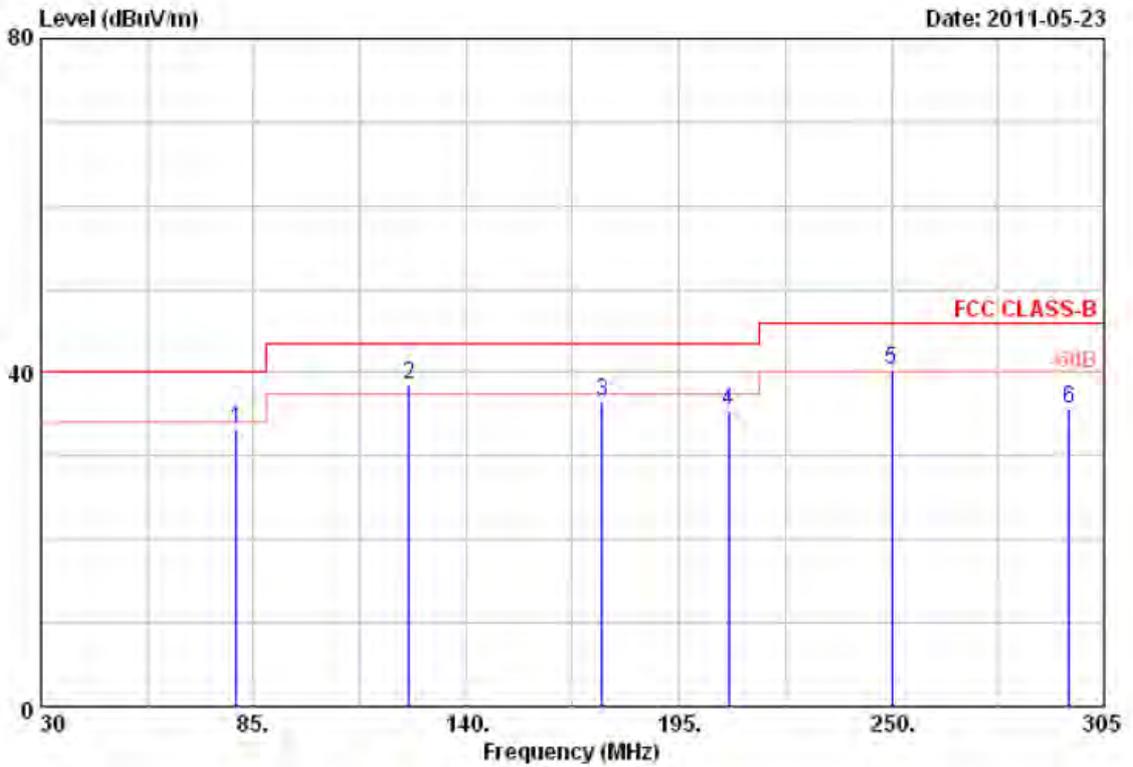
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.30	43.87	-1.11	42.76	46.00	-3.24	QP	100	0
2	500.00	37.47	1.30	38.77	46.00	-7.23	Peak	100	0
3	628.00	32.89	5.16	38.05	46.00	-7.95	Peak	100	0
4	750.50	25.16	13.18	38.34	46.00	-7.66	Peak	100	0
5	875.60	23.33	15.36	38.69	46.00	-7.31	Peak	100	0
6	999.93	31.96	11.81	43.77	54.00	-10.23	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



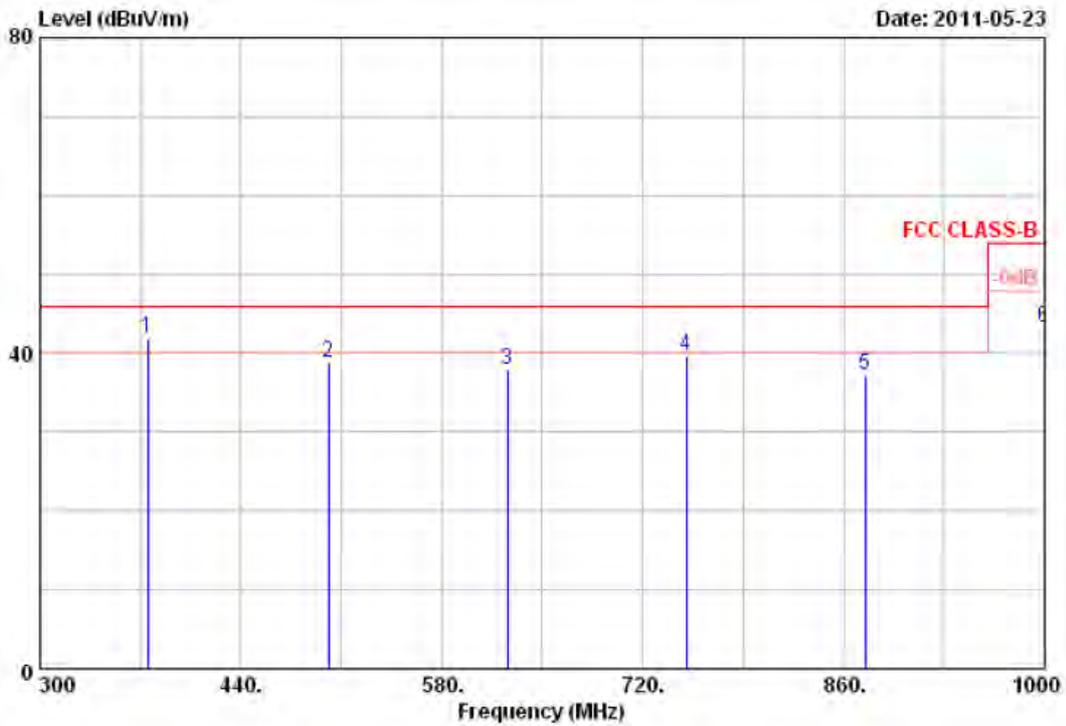
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	80.50	45.89	-12.61	33.28	40.00	-6.72	Peak	100	360
2	125.25	44.66	-6.05	38.61	43.50	-4.89	QP	100	360
3	175.25	47.65	-11.12	36.53	43.50	-6.97	Peak	100	360
4	207.85	43.57	-8.10	35.47	43.50	-8.03	Peak	100	360
5	250.10	44.32	-4.01	40.31	46.00	-5.69	QP	100	360
6	296.00	40.55	-4.91	35.64	46.00	-10.36	Peak	100	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 25 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



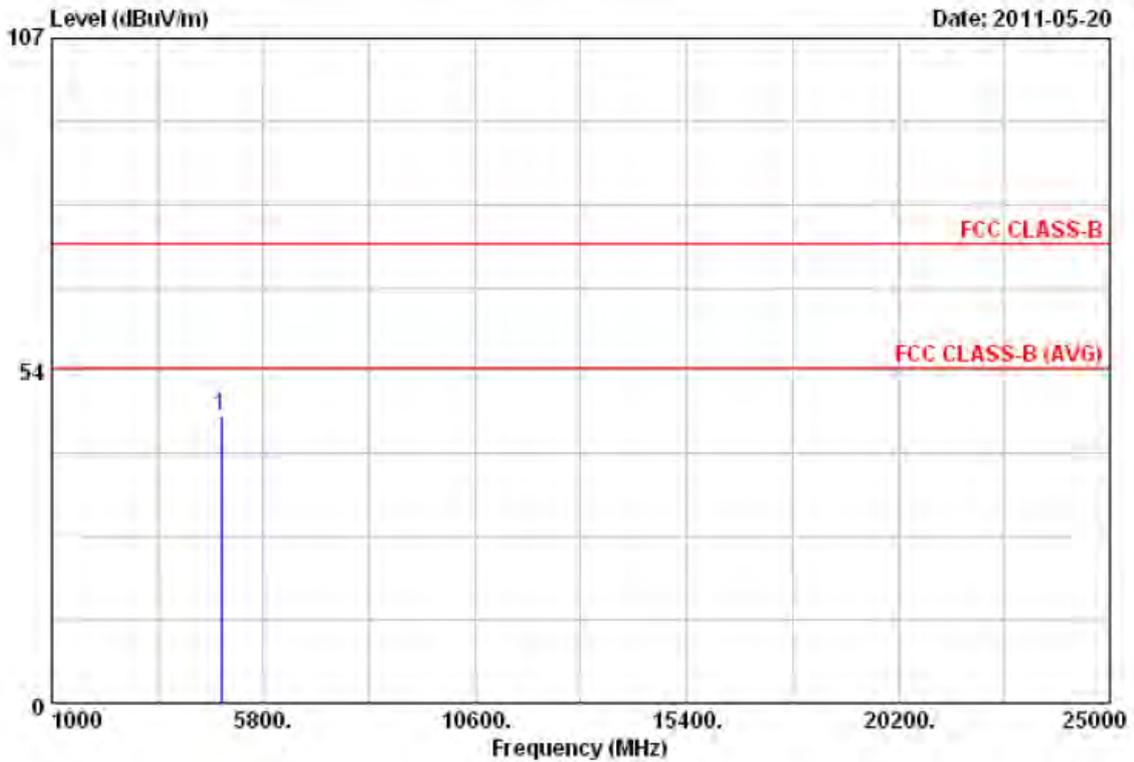
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	375.00	46.34	-4.40	41.94	46.00	-4.06	QP	100	0
2	501.00	34.55	4.33	38.88	46.00	-7.12	Peak	100	0
3	625.60	28.25	9.70	37.95	46.00	-8.05	Peak	100	0
4	750.00	25.33	14.37	39.70	46.00	-6.30	Peak	100	0
5	874.80	21.48	15.83	37.31	46.00	-8.69	Peak	100	0
6	999.90	25.63	17.68	43.31	54.00	-10.69	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300KHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11g/n mode are all the same,so the 802.11g/n mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g/n mode at channel 1,6,11 or 3,6,9(for HT40) are almost the same below 1GHz,so that the channel 1 or 3(for HT40)was chosen as representative in final test.
6. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



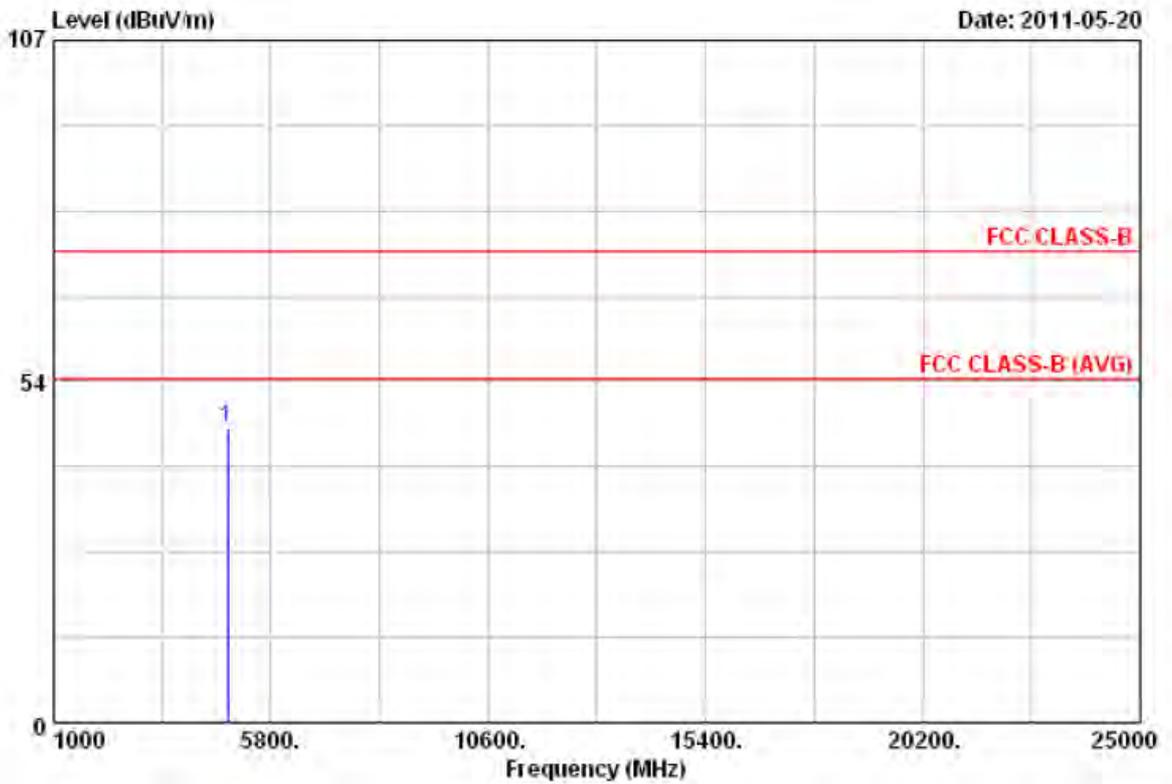
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.00	49.77	-3.45	46.32	74.00	-27.68	Peak	100	122

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode 1	: 802.11n HT40, CH3	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



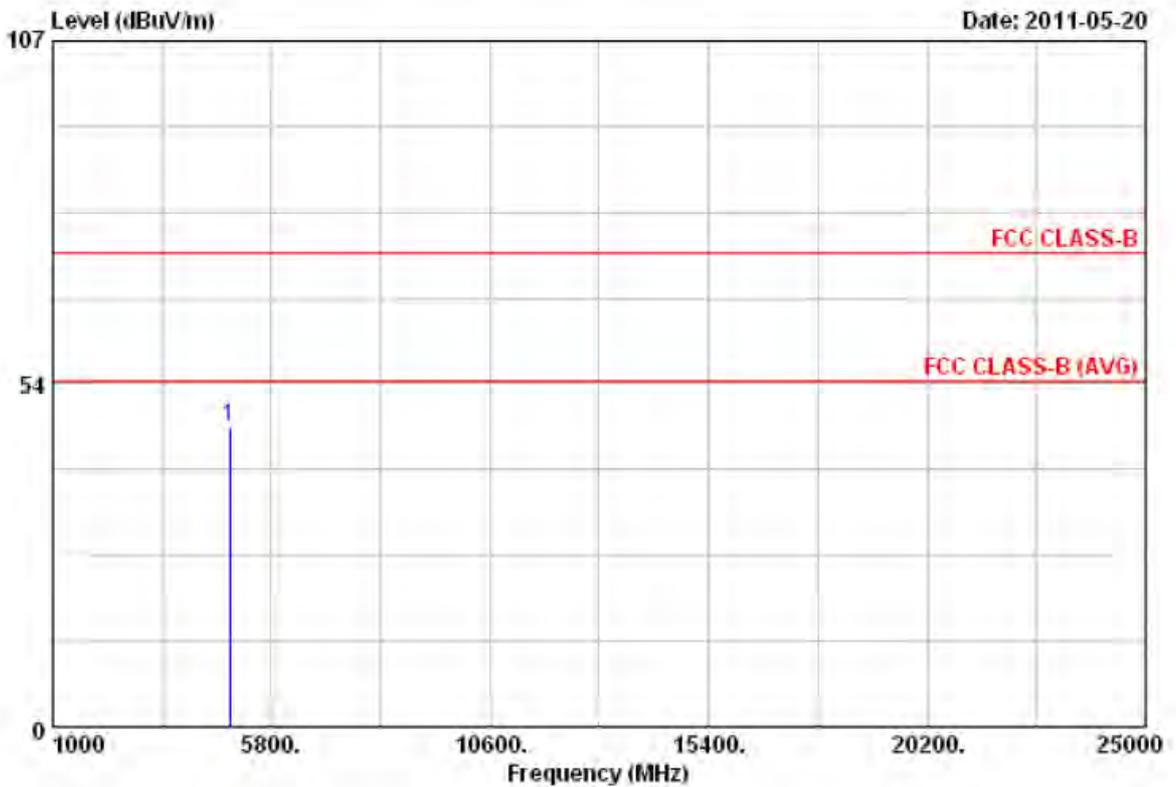
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.00	49.74	-3.45	46.29	74.00	-27.71	Peak	100	237

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode 1	: 802.11n HT40, CH6	Temperature	: 23 °C
Memo	: Adapter: PIE/ AD810F10	Humidity	: 65 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	50.28	-3.34	46.94	74.00	-27.06	Peak	100	159

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.
7. The data is worse case.