FCC TEST REPORT (802.11bg)

According to

FCC Rules and Regulations Part 15 Subpart C

Applicant	:	Partner Tech Corp.
Address	:	10FL, 233-2, Baoqiao Road, Xindian, New Taipei City, Taiwan
Equipment	:	Handheld Terminal
Model No.	:	OT-110
FCC ID	:	NDPOT-110
Trade Name	:	Partner

Laboratory Accreditation

TAF
Testing Laboratory
1332

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of ***Cerpass 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.

Contents

CERTIFICATE OF COMPLIANCE

According to

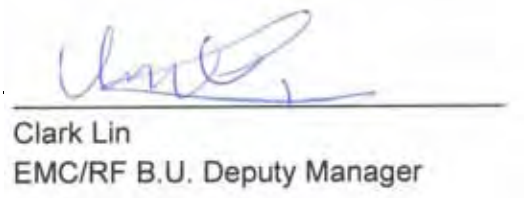
FCC Rules and Regulations Part 15 Subpart C

Applicant	:	Partner Tech Corp.
Address	:	10FL, 233-2, Baoqiao Road, Xindian, New Taipei City, Taiwan
Equipment	:	Handheld Terminal
Model No.	:	OT-110
FCC ID	:	NDPOT-110

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 (2010).**
The test was carried out on Jul. 08, 2011 at ***Cerpass Technology Corp***.

Signature



Clark Lin
EMC/RF B.U. Deputy Manager

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

CPU	CPU Samsung S3C 6410 667MHz
Memory	Mobile DDR 128MB, NAND flash 256MB
LCD	4.3” widescreen (resolution 272*480)
WiFi	802.11 b/g
Frequency	2412-2462MHz
Bluetooth	Class 2
Connection Interface	WLAN 802.11 b/g, Mini USB 2.0 (Client) / 1.1 (Host)
Numbers of channel	WLAN: 11channels; Bluetooth: 79channels
Modulation	DSSS, OFDM, FHSS
Audio	Speaker, Internal microphone, earphone jack, microphone jack
Storage	Micro SD Card (support SDHC)
Special features	Vibrator motor (for alerts) 4-way direction sensor Ambient light sensor Backup restore utility
Battery	Li-ion 2200mAh (with Gas Gauge)
Ruggedness	IP54, 1.2 meter drop test
Operating System	Windows CE 6.0
Dimensions	133 * 82 * 19 mm(H x W x D)
Option	Sunlight-readable panel with power-saving function MSR Track 1, 2, 3 Barcode Scanner 1D/2D RFID 13.56MHz (Mifare)
Weight	Approx. 220g with battery
Adapter	Touch \ M8-10US05R CWT \ KPC-010B

Bluetooth:

Transmit Power	GFSK: -0.04dBm, π/4-DQPSK: -4.33dBm, 8DPSK: -3.87dBm

RFID:

Type of Modulation	FSK
Number of Channels	1
Frequency Band	13.56MHz
Carrier Frequency of each channel	13.56MHz

2.2 Carrier Frequency of Channels

802.11b, 802.11g

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	12	---

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 EUT and Earphone for EMI test.
c. The EUT was executed to keep transmitting and receiving data via Wireless.
d. The following test mode was performed for conduction and radiation test:
- 802.11b/g: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
Earphone	MIC	MIC-4	Audio Cable, Unshielding 1.35 m

2.5 General Information of Test

Test Site :	Cerpass Technology Corp. 2F-11, No. 3, Yuan Qu St., (Nankang Software Park), Taipei, Taiwan 115, R.O.C.
Test Site Location (OATS2-SD) :	No.68-1, Shihbachongsi, Shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	TW1049, TW1061, 488071, 390316
IC Registration Number :	4934B-1, 4934D-1
VCCI Registration Number :	T-543 for Telecommunication Test C-3328 for Conducted emission test R-3013 for Radiated emission test G-97 for radiated disturbance above 1GHz
Test Voltage:	AC 120V
Test in Compliance with:	ANSI C63.4-2009 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 24620MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.6 Measurement Uncertainty

Measurement Item	Measurement Frequency	Polarization	Uncertainty
Conducted Emission	9 kHz ~ 30 MHz	LINE / NEUTRAL	2.71 dB
Radiated Emission	30 MHz ~ 1,000 MHz	Vertical	3.52 dB
		Horizontal	3.39 dB
	1,000 MHz ~ 18,000 MHz	Vertical	4.39 dB
		Horizontal	5.25 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

2.7 History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

Attachment No.	Issue Date	Description

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

WLAN/Bluetooth
Antenna type: PIFA Antenna
Antenna Gain: 2.9231 dBi

RFID
Antenna type: PCB Antenna

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 C63.4-2009 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.

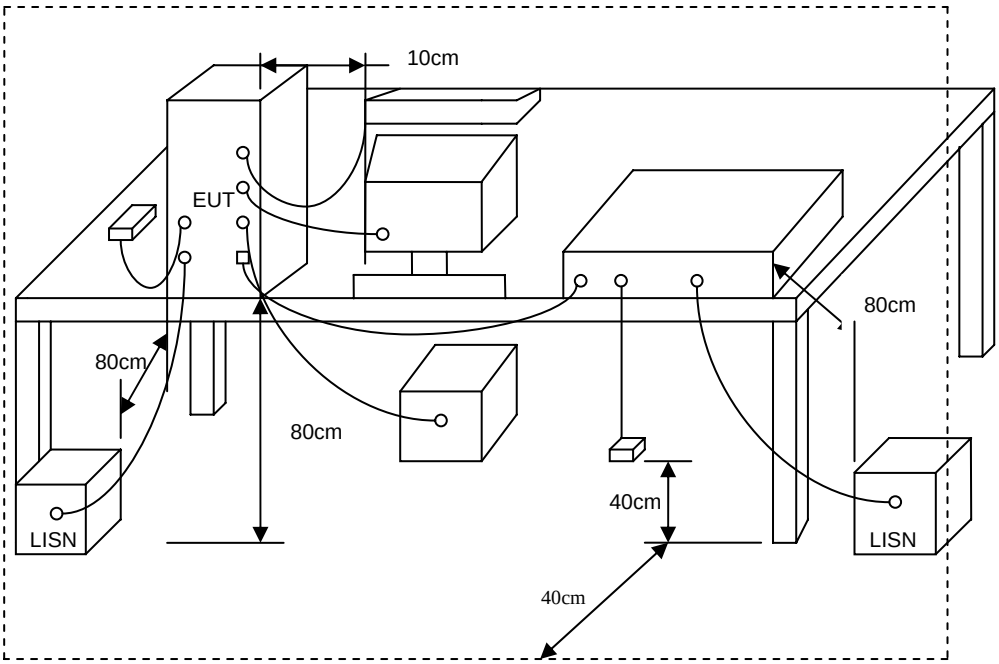
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*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

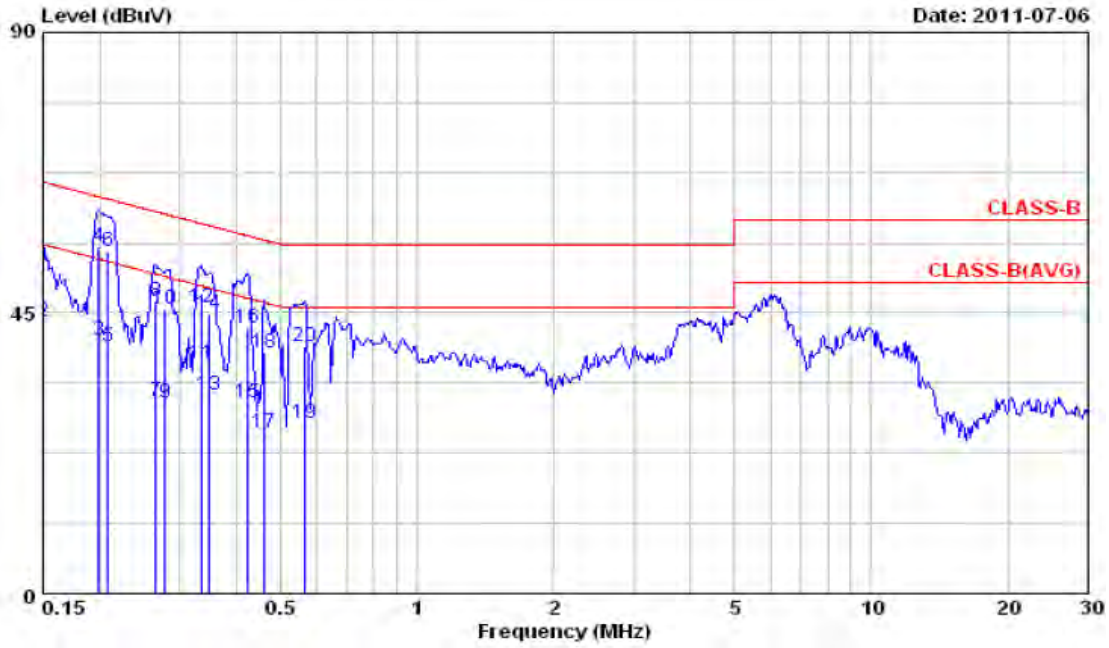


4.4 Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Receiver	R&S	ESCI	100443	2011/02/08	2012/02/07
LISN	Schwarzbeck	NSLK 8127	8127-516	2011/05/05	2012/05/04
LISN	MessTec	NNS-2/16L	02/10191	2010/07/19	2011/07/18

4.5 Test Result and Data

Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode	:	802.11g, CH1	Temperature	:	25 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	50 %

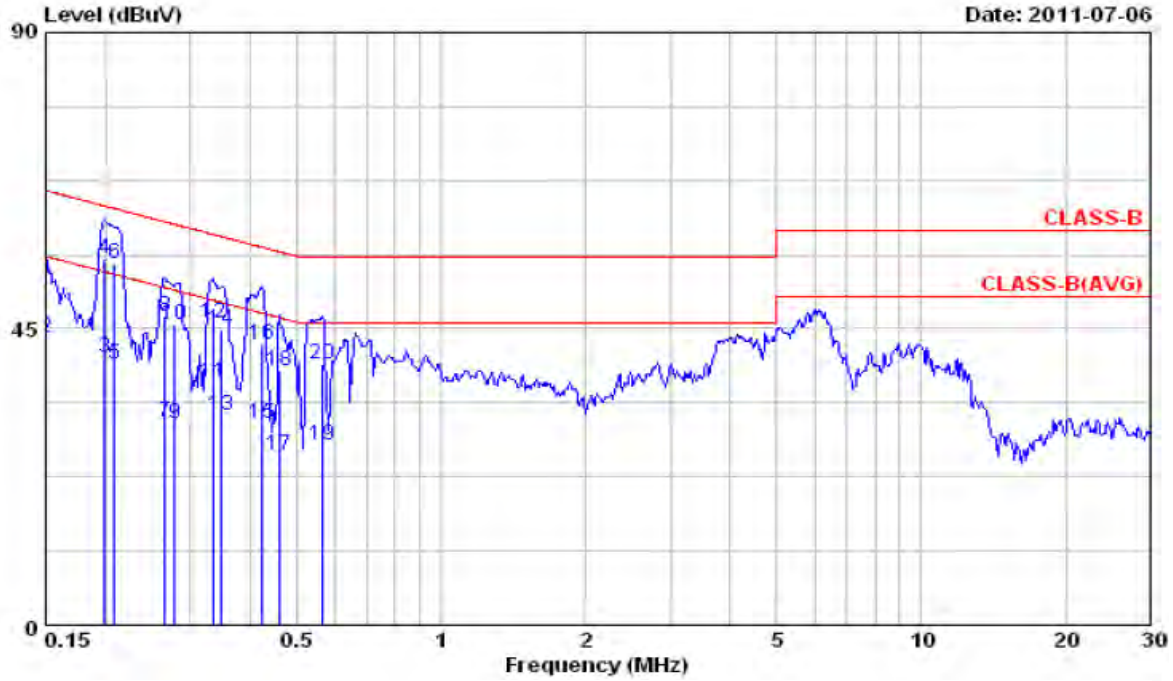


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.15	27.30	0.07	27.37	55.99	-28.62	Average
2	0.15	43.66	0.07	43.73	65.99	-22.26	QP
3	0.20	40.61	0.07	40.68	53.64	-12.96	Average
4	0.20	55.48	0.07	55.55	63.64	-8.09	QP
5	0.21	39.56	0.07	39.63	53.27	-13.64	Average
6	0.21	54.82	0.07	54.89	63.27	-8.38	QP
7	0.27	30.69	0.07	30.76	51.25	-20.49	Average
8	0.27	46.69	0.07	46.76	61.25	-14.49	QP
9	0.28	30.47	0.07	30.54	50.87	-20.33	Average
10	0.28	45.45	0.07	45.52	60.87	-15.35	QP
11	0.33	36.70	0.08	36.78	49.36	-12.58	Average
12	0.33	45.84	0.08	45.92	59.36	-13.44	QP
13	0.35	31.88	0.08	31.96	48.99	-17.03	Average
14	0.35	44.67	0.08	44.75	58.99	-14.24	QP
15	0.42	30.57	0.08	30.65	47.37	-16.72	Average

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	:	802.11g, CH1	Temperature	:	25 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	50 %

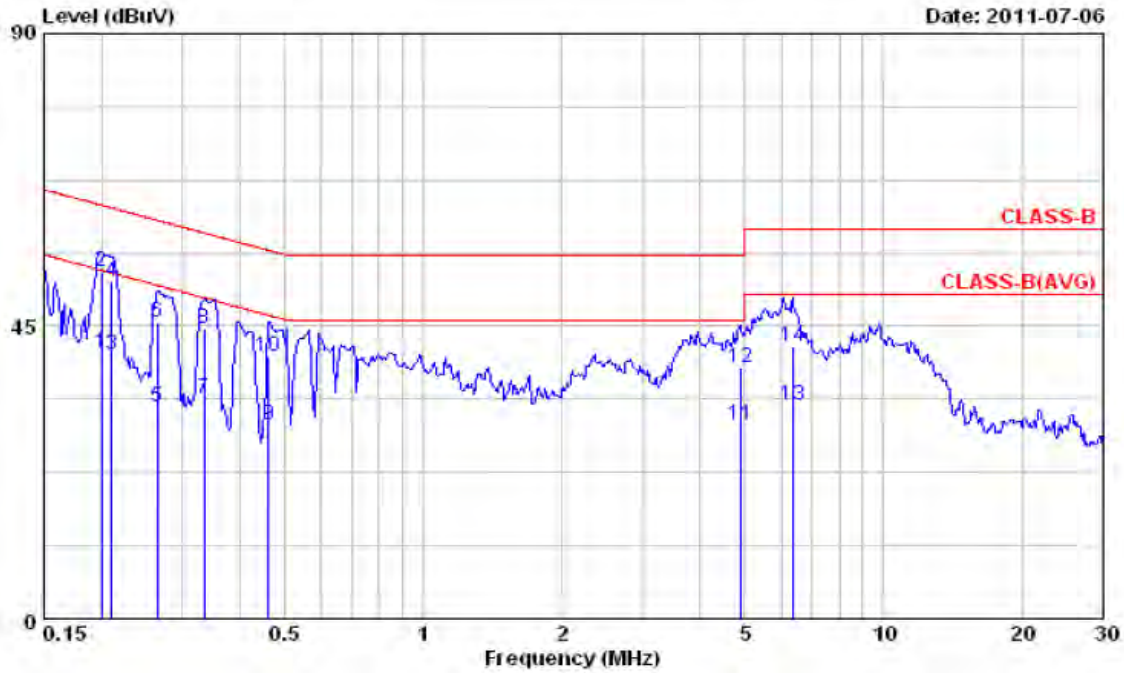


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
16	0.42	42.58	0.08	42.66	57.37	-14.71	QP
17	0.46	25.76	0.08	25.84	46.65	-20.81	Average
18	0.46	38.52	0.08	38.60	56.65	-18.05	QP
19	0.56	27.27	0.09	27.36	46.00	-18.64	Average
20	0.56	39.62	0.09	39.71	56.00	-16.29	QP

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	:	802.11g, CH1	Temperature	:	25 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	50 %

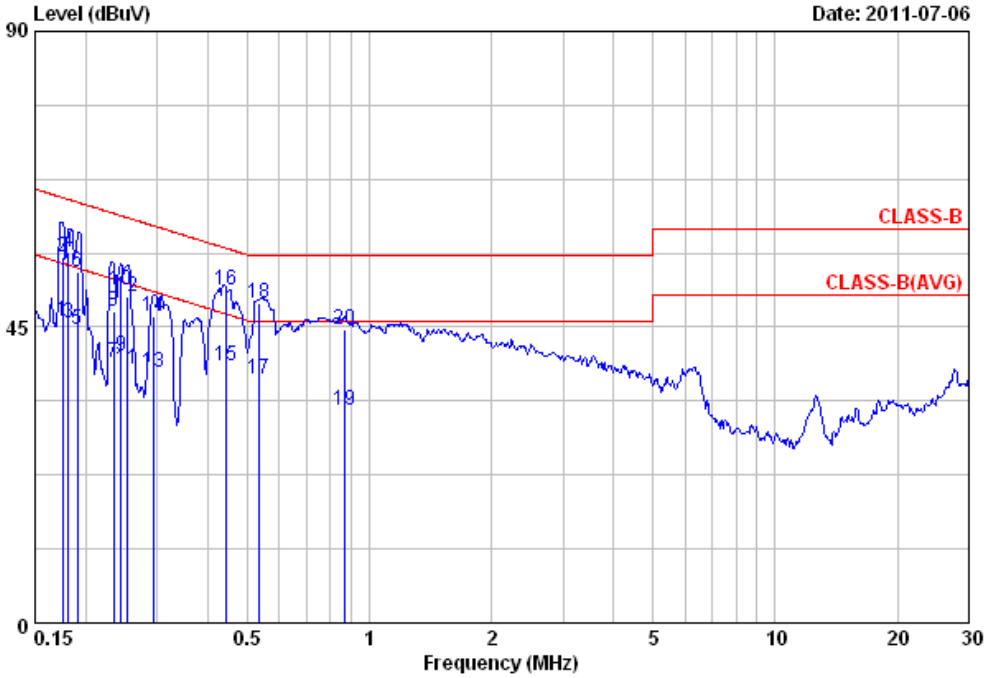


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.20	40.69	0.07	40.76	53.63	-12.87	Average
2	0.20	53.33	0.07	53.40	63.63	-10.23	QP
3	0.21	40.55	0.07	40.62	53.18	-12.56	Average
4	0.21	51.87	0.07	51.94	63.18	-11.24	QP
5	0.26	32.52	0.07	32.59	51.29	-18.70	Average
6	0.26	45.63	0.07	45.70	61.29	-15.59	QP
7	0.33	33.65	0.08	33.73	49.33	-15.60	Average
8	0.33	44.56	0.08	44.64	59.33	-14.69	QP
9	0.46	29.79	0.08	29.87	46.66	-16.79	Average
10	0.46	40.35	0.08	40.43	56.66	-16.23	QP
11	4.88	29.68	0.23	29.91	46.00	-16.09	Average
12	4.88	38.45	0.23	38.68	56.00	-17.32	QP
13	6.38	32.63	0.27	32.90	50.00	-17.10	Average
14	6.38	41.70	0.27	41.97	60.00	-18.03	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	:	802.11g, CH1	Temperature	:	25 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	50 %

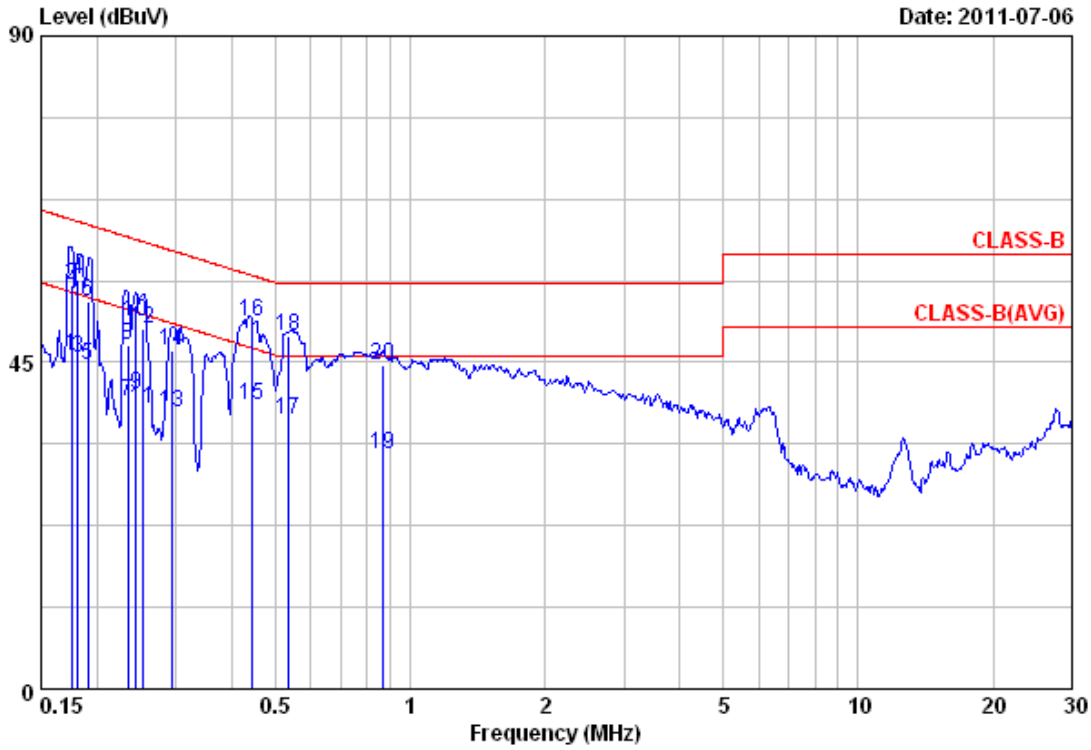


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.18	45.87	0.07	45.94	54.70	-8.76	Average
2	0.18	55.53	0.07	55.60	64.70	-9.10	QP
3	0.18	45.67	0.07	45.74	54.41	-8.67	Average
4	0.18	56.36	0.07	56.43	64.41	-7.98	QP
5	0.19	44.64	0.07	44.71	54.01	-9.30	Average
6	0.19	53.24	0.07	53.31	64.01	-10.70	QP
7	0.23	39.66	0.07	39.73	52.30	-12.57	Average
8	0.23	47.36	0.07	47.43	62.30	-14.87	QP
9	0.24	40.43	0.07	40.50	51.95	-11.45	Average
10	0.24	50.45	0.07	50.52	61.95	-11.43	QP
11	0.25	38.66	0.07	38.73	51.69	-12.96	Average
12	0.25	49.67	0.07	49.74	61.69	-11.95	QP
13	0.30	37.96	0.08	38.04	50.38	-12.34	Average
14	0.30	46.45	0.08	46.53	60.38	-13.85	QP
15	0.44	39.00	0.08	39.08	46.99	-7.91	Average

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	:	802.11g, CH1	Temperature	:	25 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	50 %

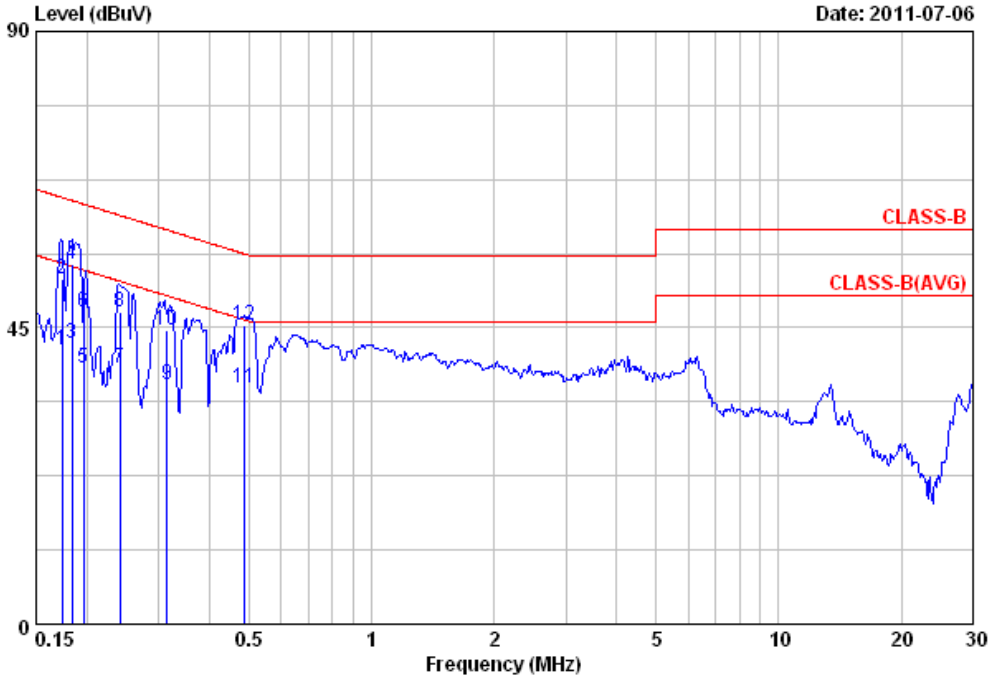


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
16	0.44	50.66	0.08	50.74	56.99	-6.25	QP
17	0.53	36.90	0.09	36.99	46.00	-9.01	Average
18	0.53	48.56	0.09	48.65	56.00	-7.35	QP
19	0.87	32.23	0.10	32.33	46.00	-13.67	Average
20	0.87	44.46	0.10	44.56	56.00	-11.44	QP

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	:	802.11g, CH1	Temperature	:	25 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	50 %



Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	0.17	41.55	0.07	41.62	54.76	-13.14	Average
2	0.17	52.33	0.07	52.40	64.76	-12.36	QP
3	0.18	42.54	0.07	42.61	54.33	-11.72	Average
4	0.18	54.57	0.07	54.64	64.33	-9.69	QP
5	0.20	38.89	0.07	38.96	53.77	-14.81	Average
6	0.20	47.32	0.07	47.39	63.77	-16.38	QP
7	0.24	38.84	0.07	38.91	52.07	-13.16	Average
8	0.24	47.35	0.07	47.42	62.07	-14.65	QP
9	0.31	36.33	0.08	36.41	49.87	-13.46	Average
10	0.31	44.59	0.08	44.67	59.87	-15.20	QP
11	0.49	35.85	0.08	35.93	46.21	-10.28	Average
12	0.49	45.26	0.08	45.34	56.21	-10.87	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 C63.4-2009. 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 (μ V / M)	Radiated (dB μ 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

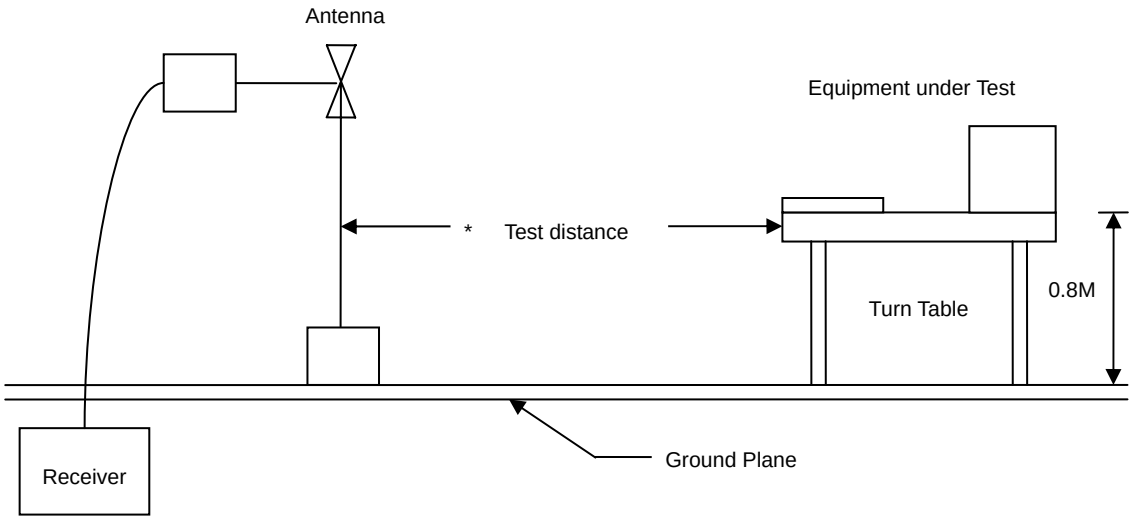
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

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

5.2 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.
b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
c. The table was rotated 360 degrees to determine the position of the highest radiation.
d. 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.
e. 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.
f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
g. 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.
h. 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.
i. “Cone of radiation” has been considered to be 3dB beamwidth of the measurement antenna.

5.3 Typical Test Setup

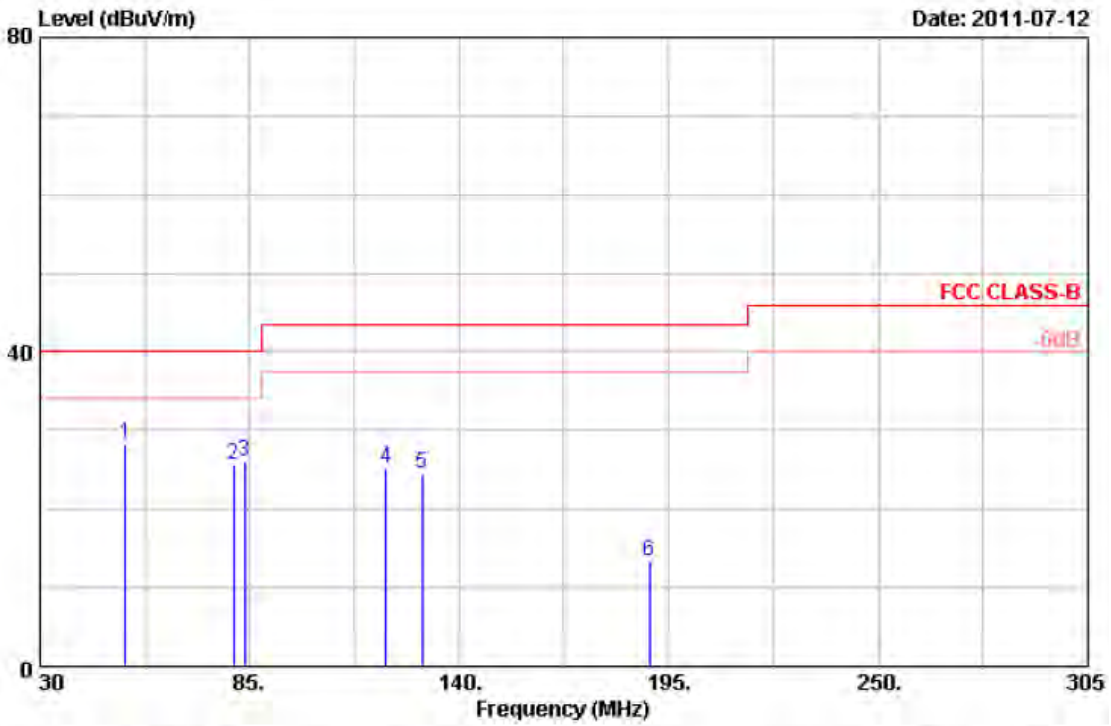


5.4 Measurement Equipment

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

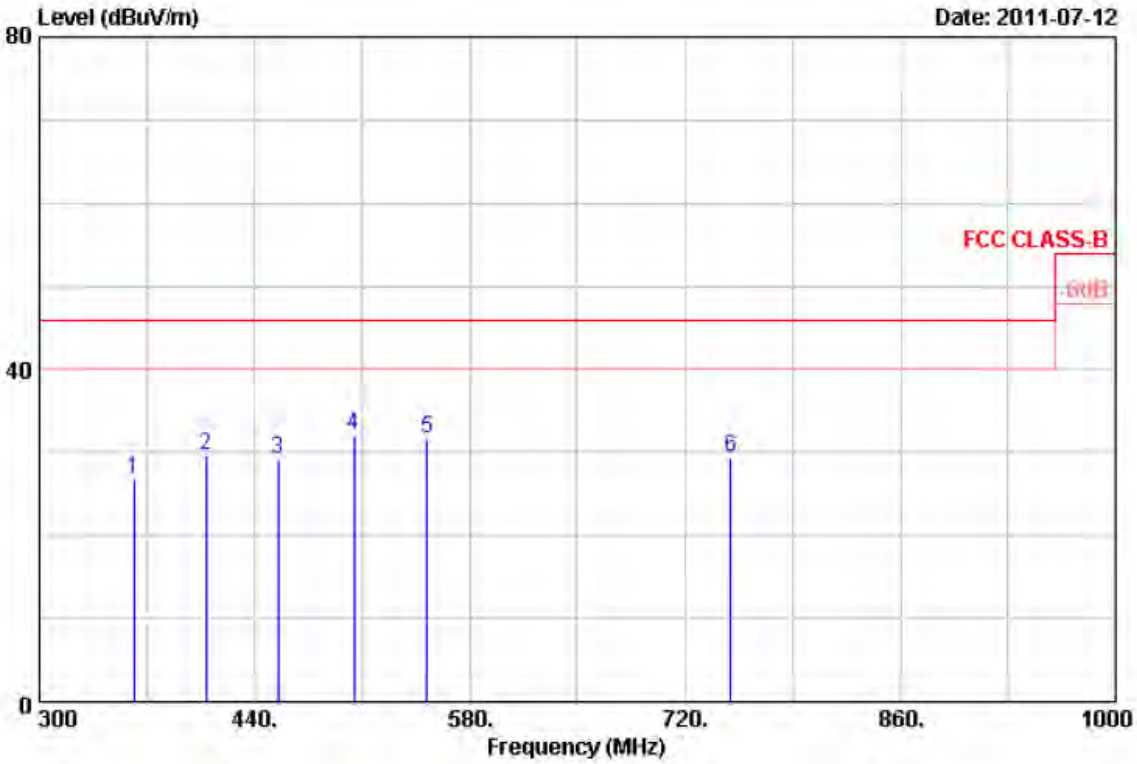


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	52.55	42.82	-14.47	28.35	40.00	-11.65	Peak	100	0
2	80.88	39.60	-13.95	25.65	40.00	-14.35	Peak	100	0
3	83.63	38.95	-12.86	26.09	40.00	-13.91	Peak	100	0
4	120.75	34.63	-9.47	25.16	43.50	-18.34	Peak	100	0
5	130.38	32.09	-7.57	24.52	43.50	-18.98	Peak	100	0
6	190.05	27.11	-13.72	13.39	43.50	-30.11	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	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

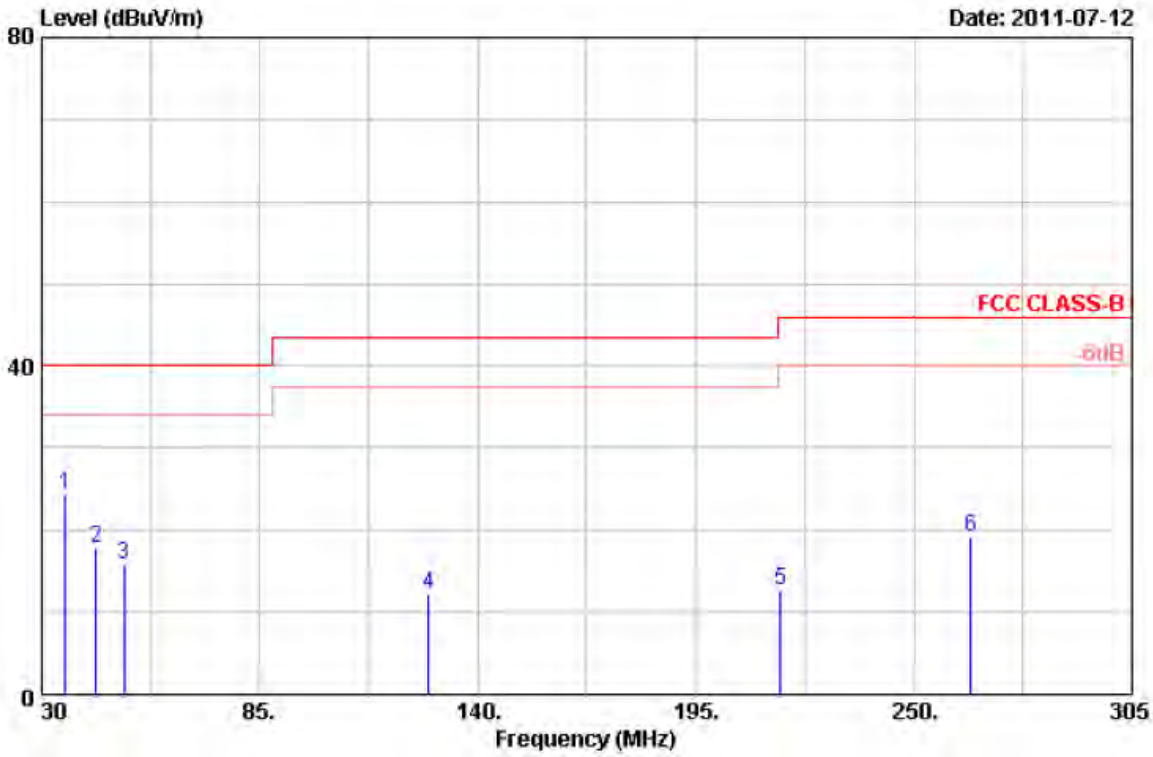


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	361.60	37.81	-11.17	26.64	46.00	-19.36	Peak	100	360
2	408.50	39.78	-10.09	29.69	46.00	-16.31	Peak	100	360
3	455.40	37.88	-8.59	29.29	46.00	-16.71	Peak	100	360
4	504.40	40.46	-8.46	32.00	46.00	-14.00	Peak	100	360
5	552.00	39.99	-8.38	31.61	46.00	-14.39	Peak	100	360
6	749.40	24.44	5.09	29.53	46.00	-16.47	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	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

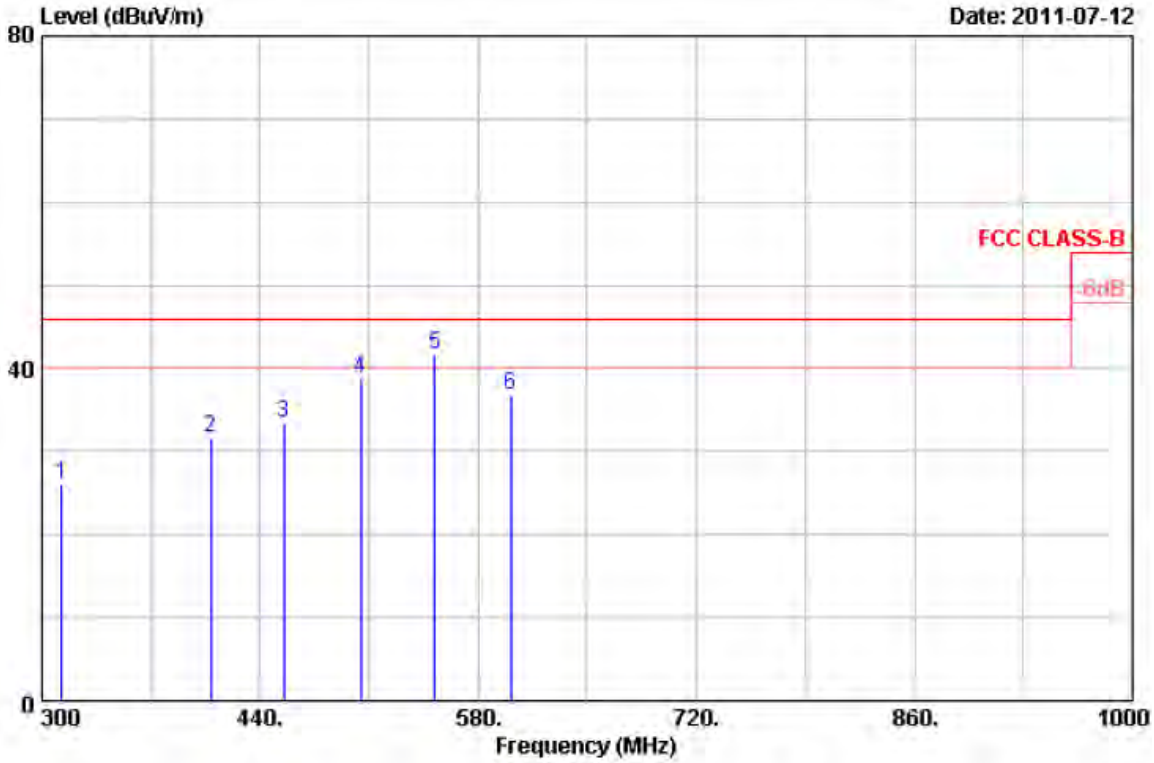


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	36.05	32.13	-7.76	24.37	40.00	-15.63	Peak	100	0
2	43.75	31.57	-13.79	17.78	40.00	-22.22	Peak	100	0
3	50.63	30.16	-14.27	15.89	40.00	-24.11	Peak	100	0
4	127.63	28.24	-16.07	12.17	43.50	-31.33	Peak	100	0
5	216.45	29.25	-16.55	12.70	46.00	-33.30	Peak	100	0
6	264.30	34.36	-15.13	19.23	46.00	-26.77	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	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

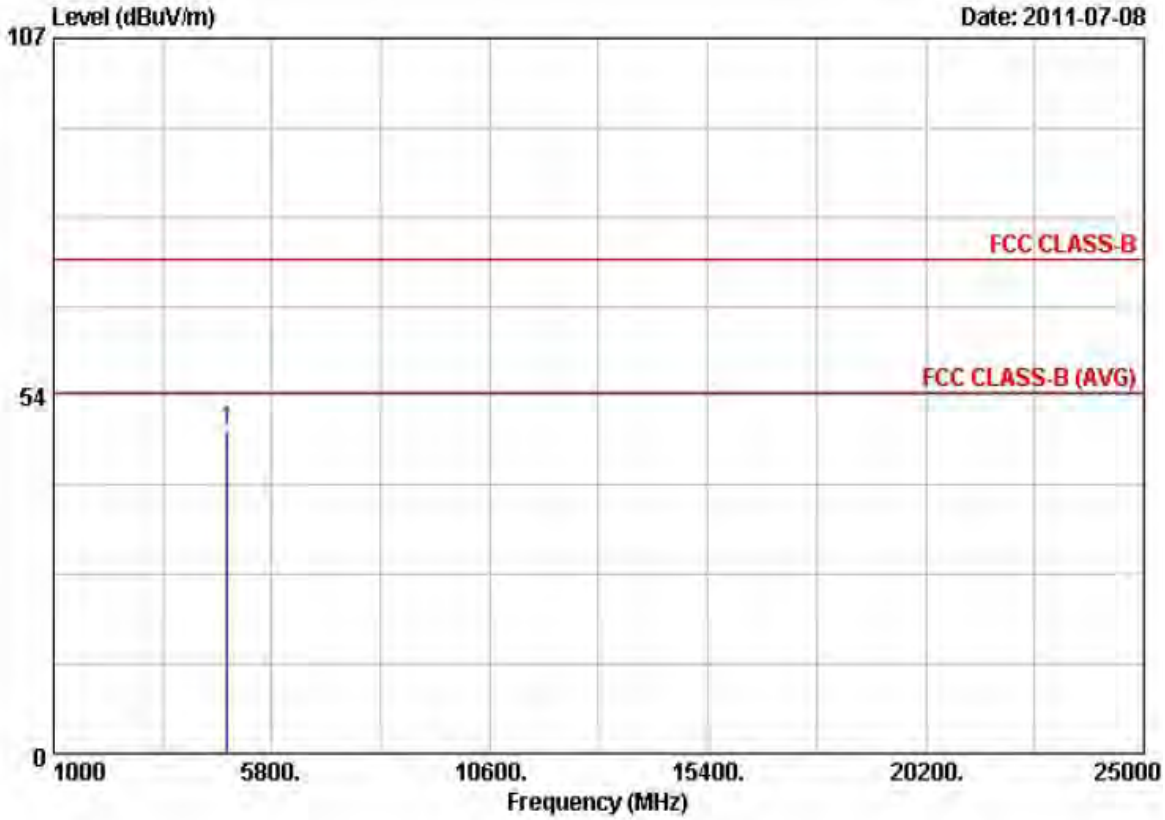


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	312.60	40.06	-14.00	26.06	46.00	-19.94	Peak	100	360
2	408.50	41.98	-10.33	31.65	46.00	-14.35	Peak	100	360
3	455.40	41.78	-8.31	33.47	46.00	-12.53	Peak	100	360
4	504.40	43.26	-4.54	38.72	46.00	-7.28	Peak	100	360
5	552.00	42.41	-0.76	41.65	46.00	-4.35	QP	100	360
6	601.00	36.32	0.42	36.74	46.00	-9.26	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	:	VERTICAL
Test Mode	:	802.11b, CH1, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

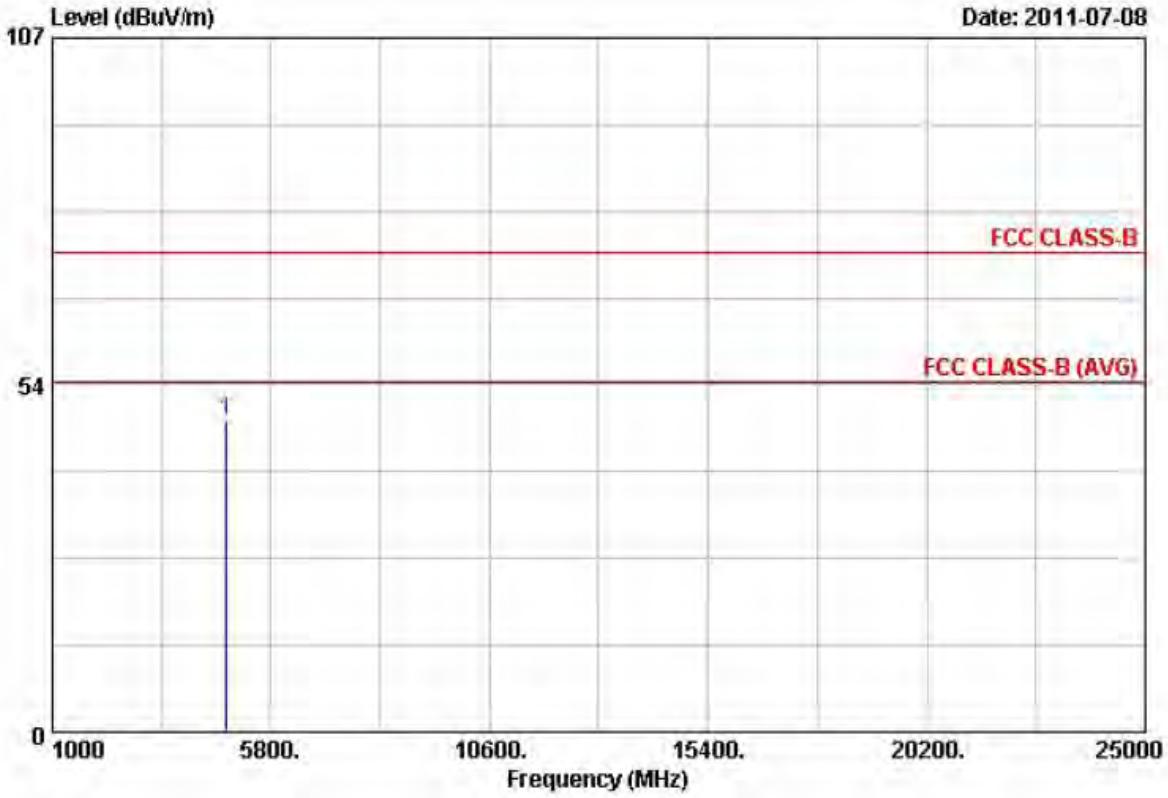


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	39.56	8.60	48.16	74.00	-25.84	Peak	100	200

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	:	802.11b, CH1, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

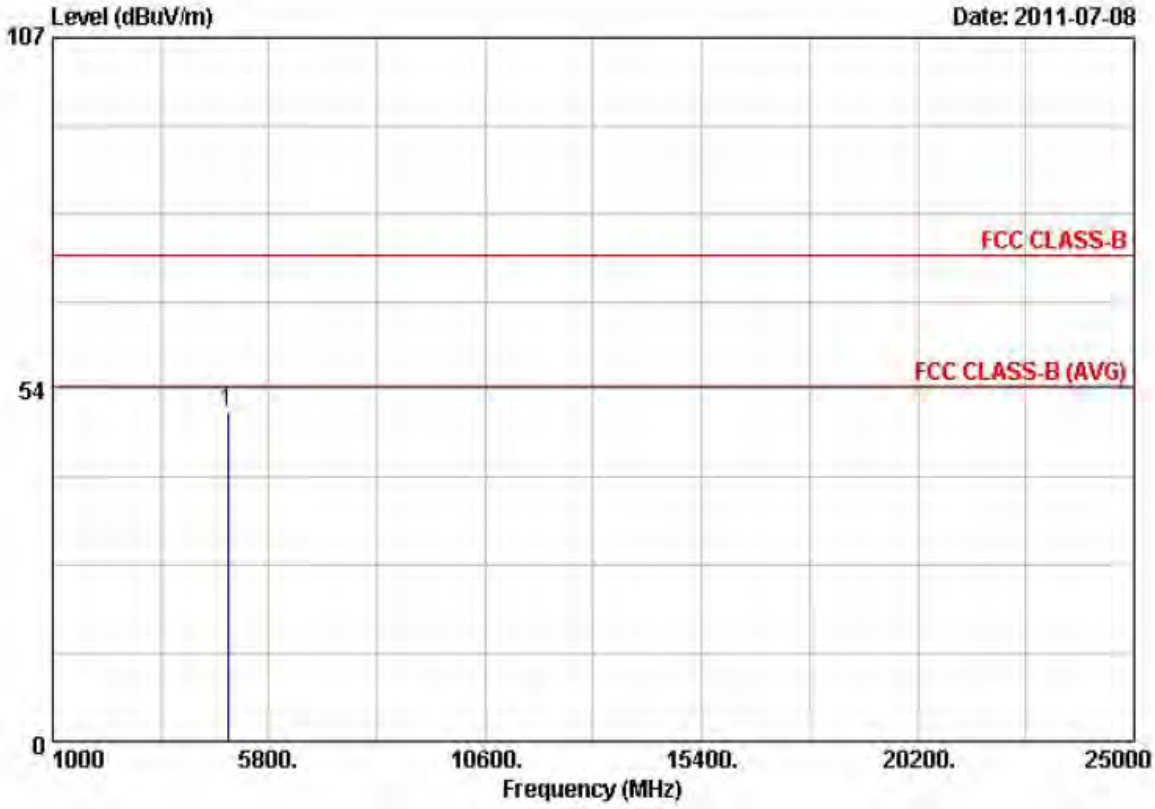


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	39.46	8.60	48.06	74.00	-25.94	Peak	100	200

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	:	802.11b, CH6, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

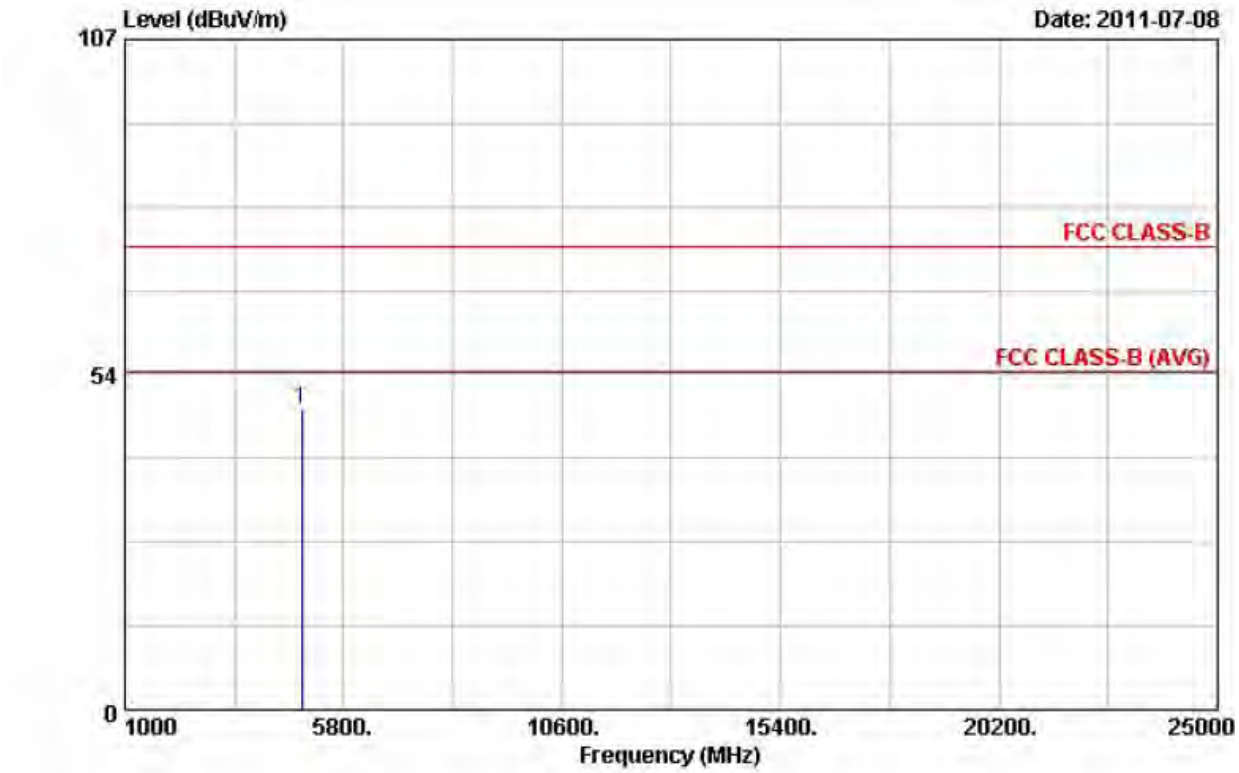


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	41.42	8.80	50.22	74.00	-23.78	Peak	100	200

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	:	802.11b, CH6, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

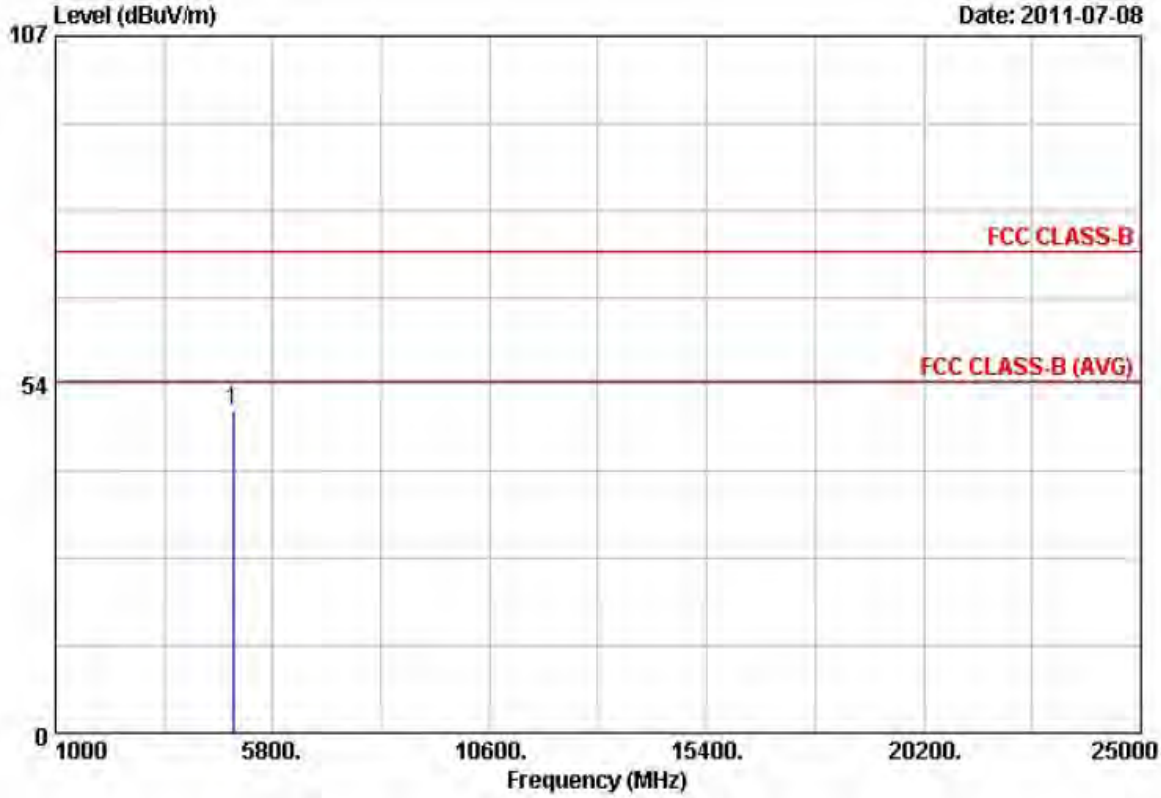


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	39.11	8.80	47.91	74.00	-26.09	Peak	100	200

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	:	802.11b, CH11, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

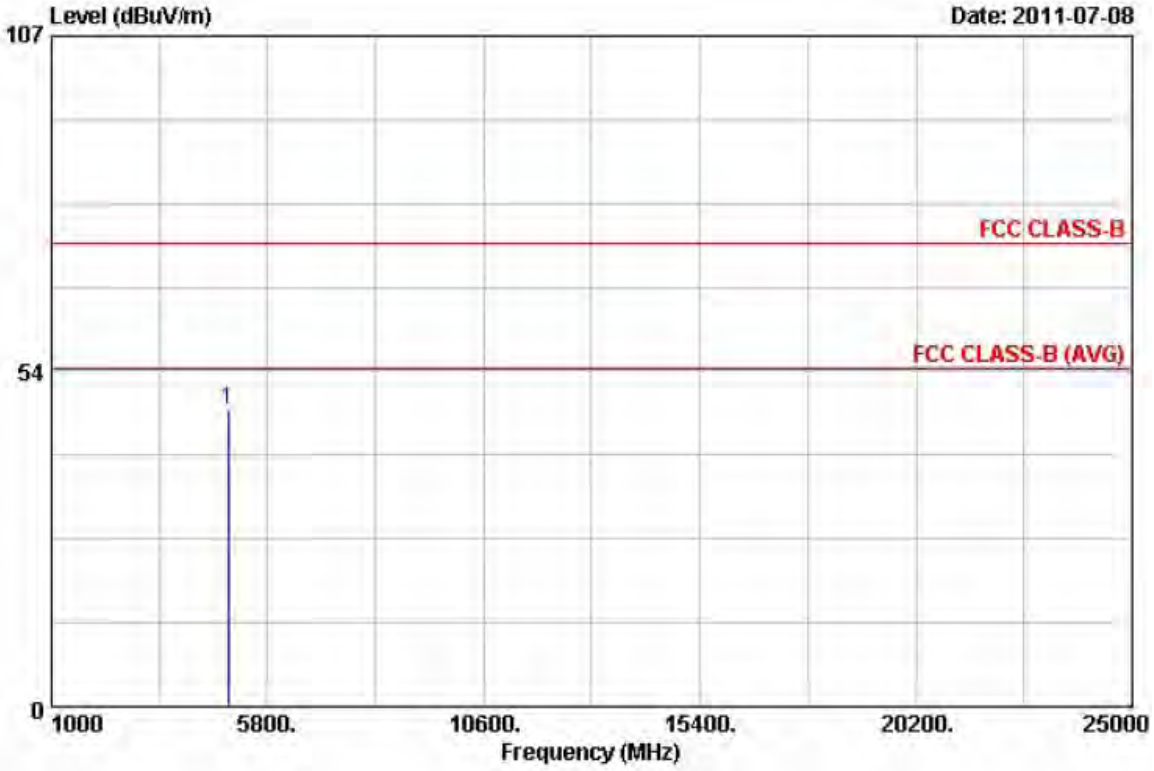


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	40.38	8.99	49.37	74.00	-24.63	Peak	100	200

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	:	802.11b, CH11, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

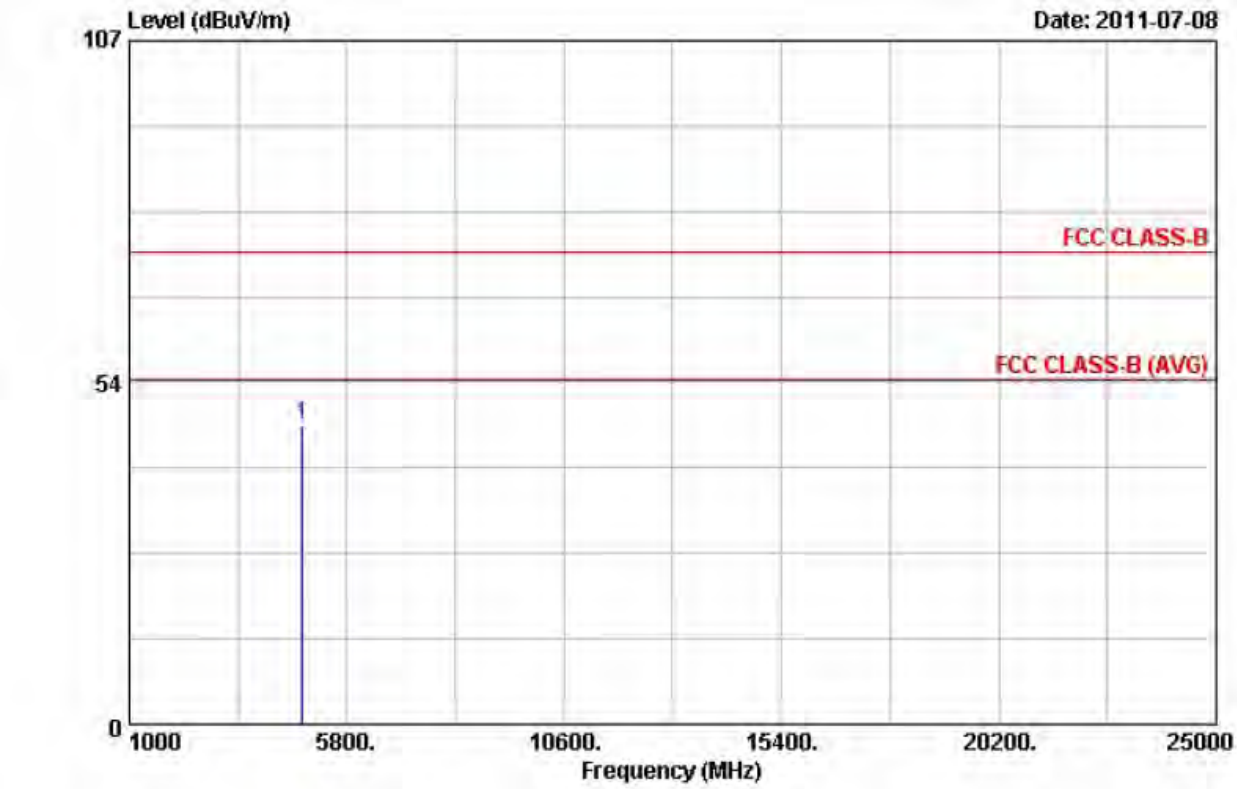


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	38.27	8.99	47.26	74.00	-26.74	Peak	100	200

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	:	802.11g, CH1, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

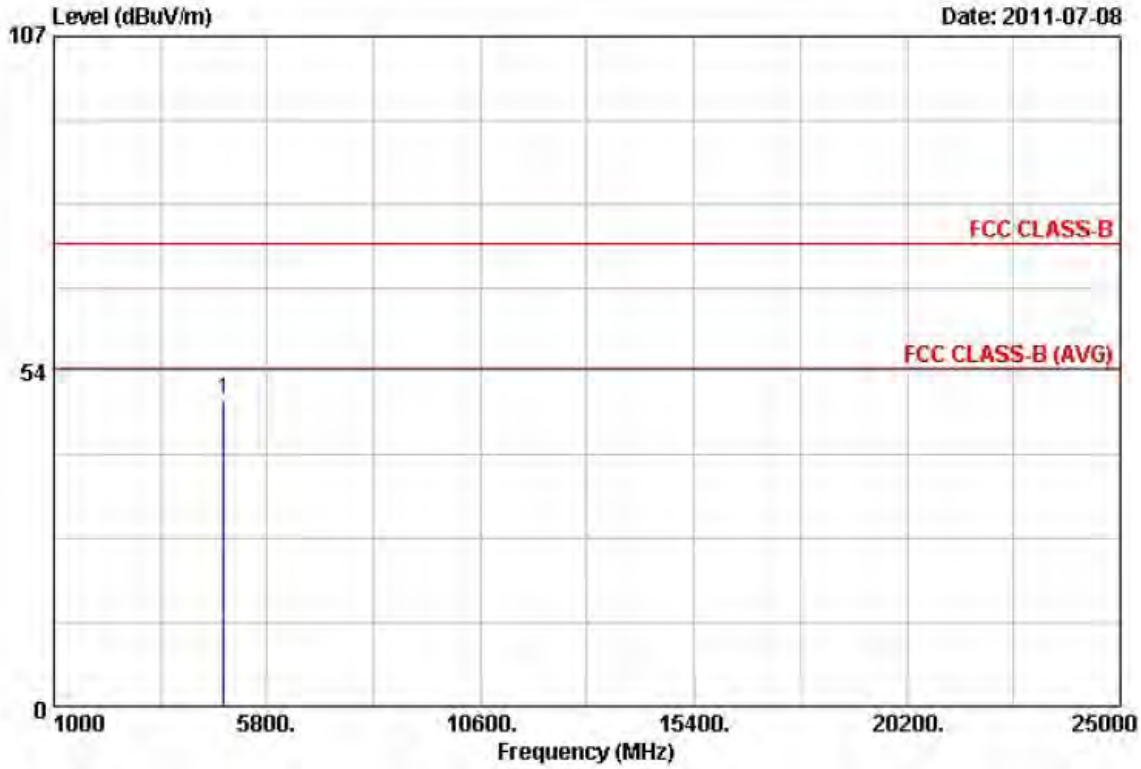


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	38.26	8.60	46.86	74.00	-27.14	Peak	100	200

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	:	802.11g, CH1, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

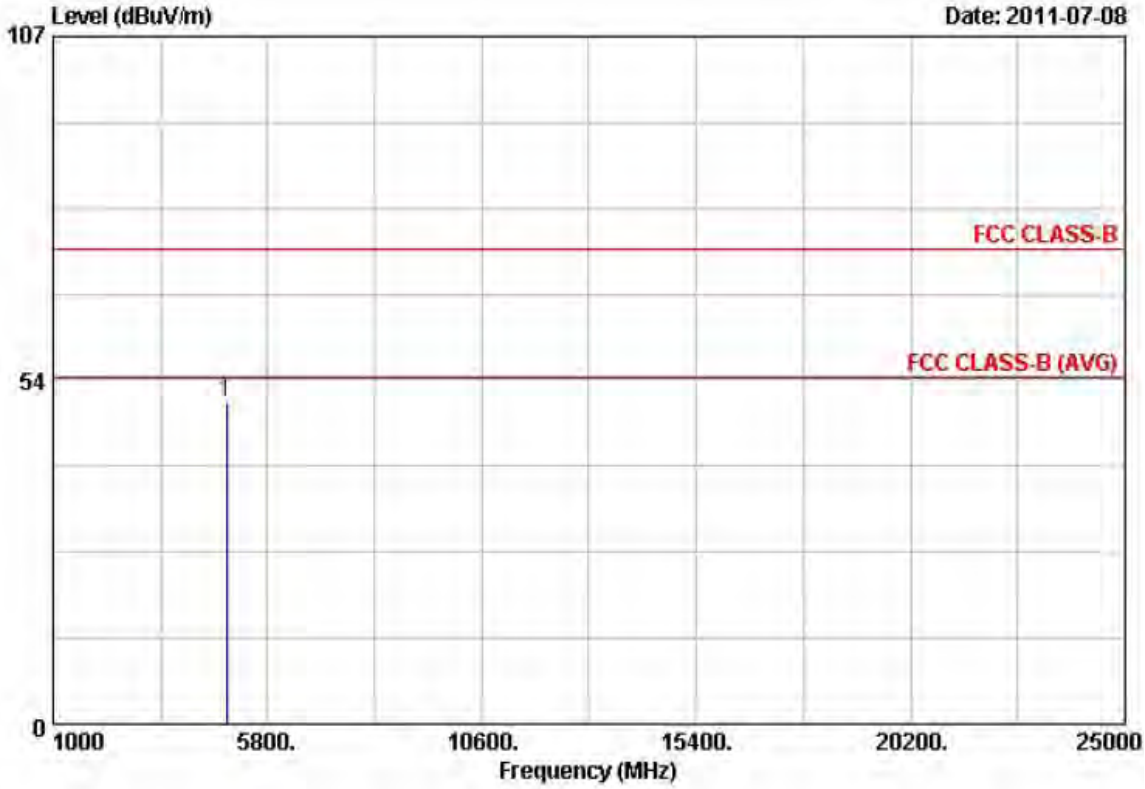


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	40.27	8.60	48.87	74.00	-25.13	Peak	100	200

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	:	802.11g, CH6, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

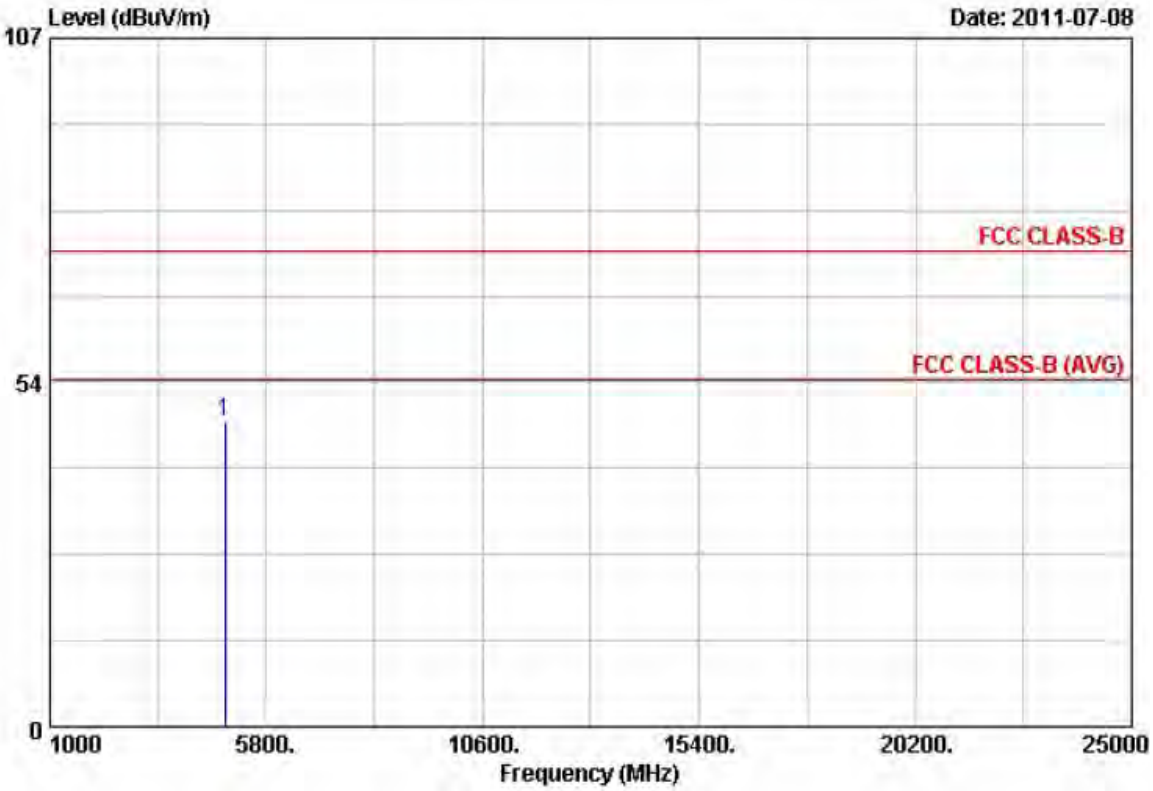


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	41.36	8.80	50.16	74.00	-23.84	Peak	100	200

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	:	802.11g, CH6, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

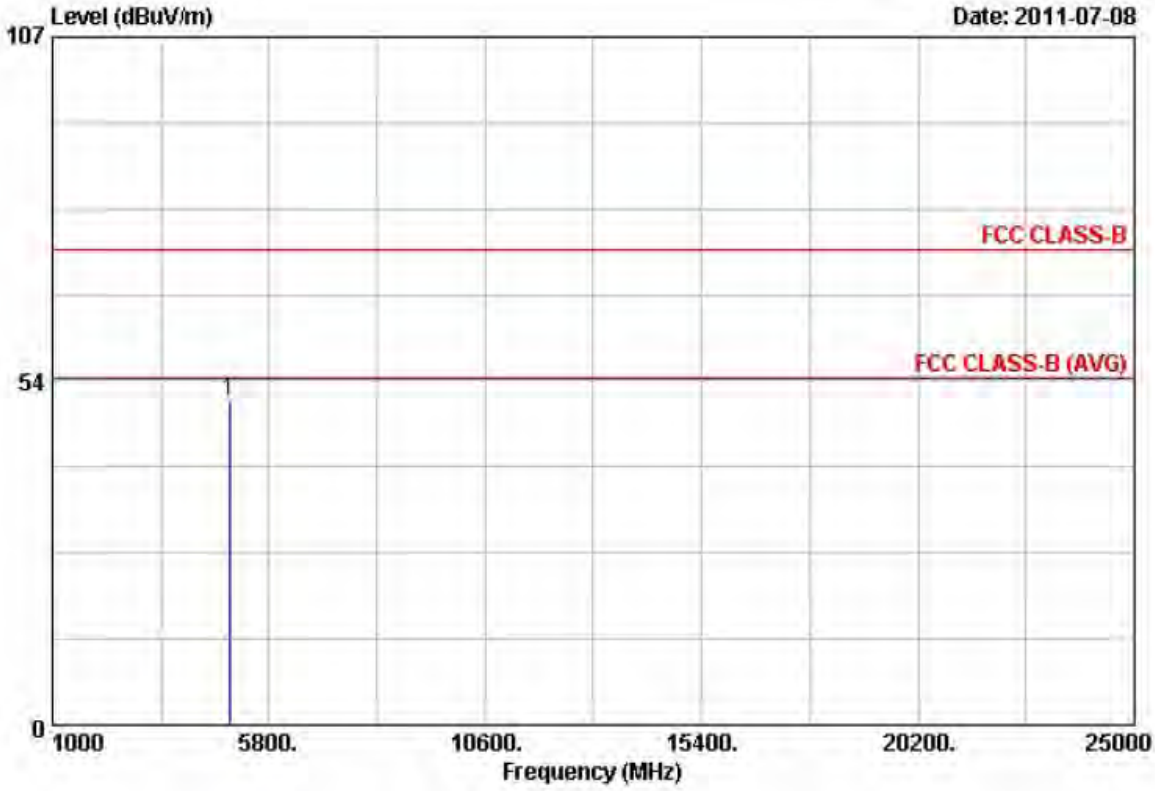


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	38.58	8.80	47.38	74.00	-26.62	Peak	100	200

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	:	802.11g, CH11, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

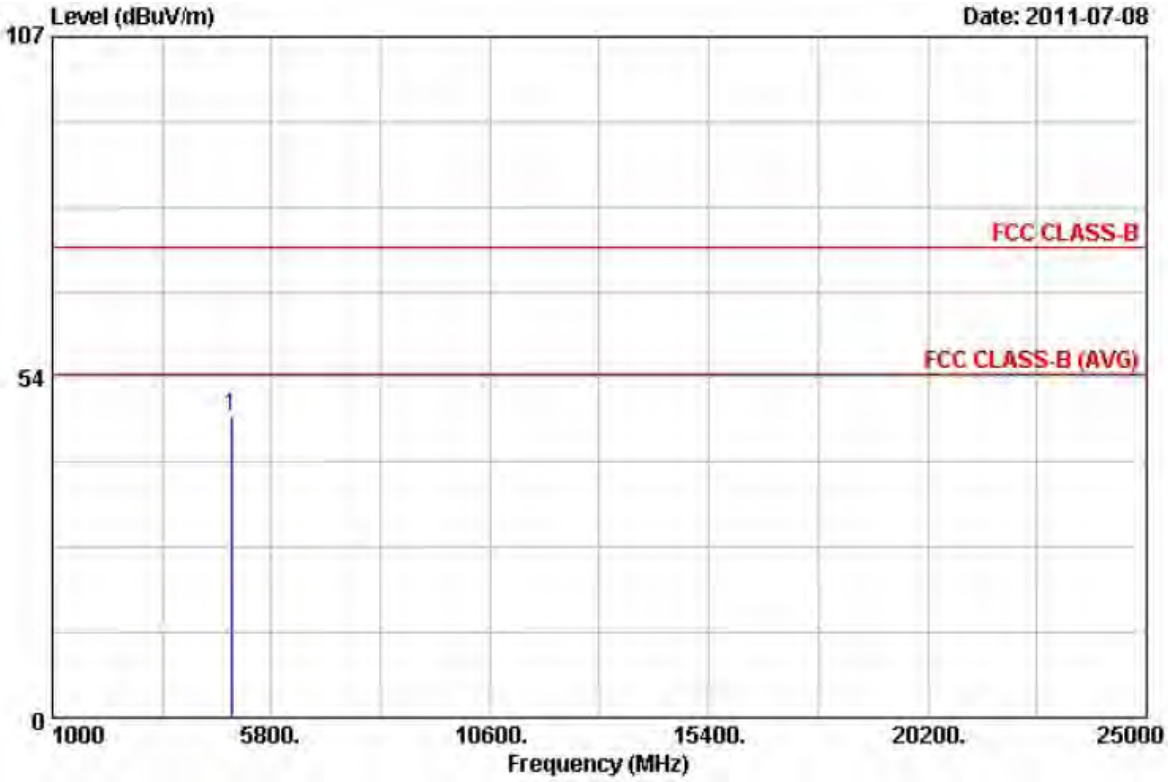


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	41.27	8.99	50.26	74.00	-23.74	Peak	100	200

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	:	802.11g, CH11, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: Touch \ M8-10US05R	Humidity	:	65 %

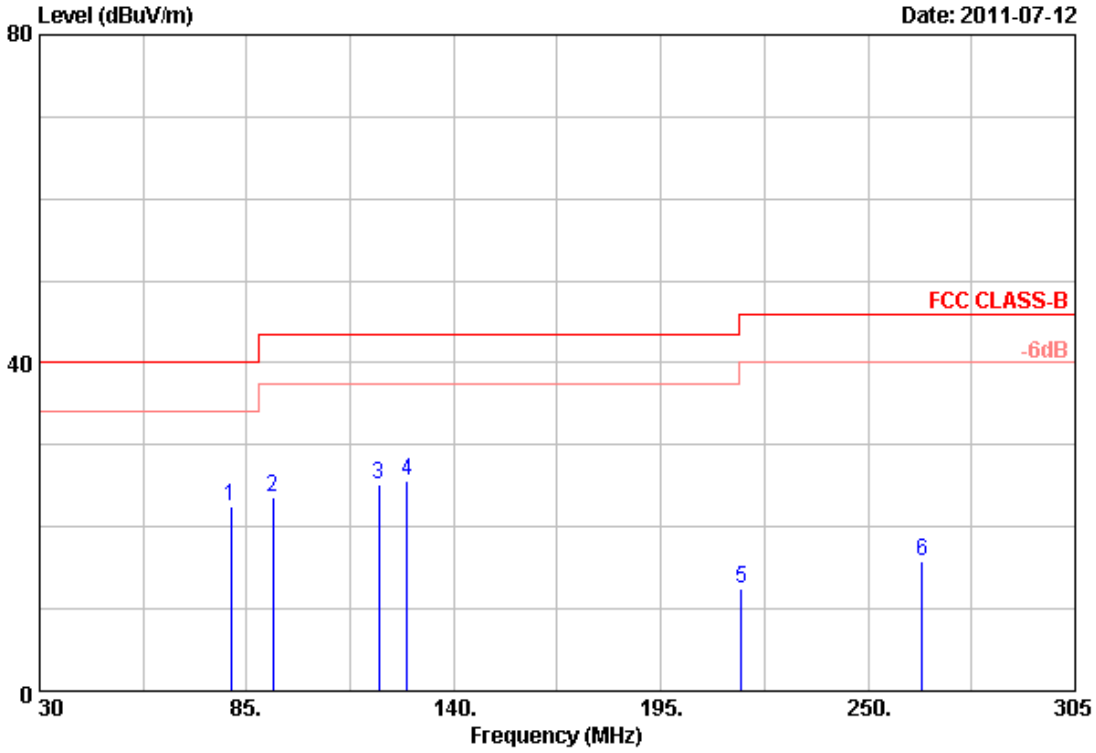


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	38.27	8.99	47.26	74.00	-26.74	Peak	100	200

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	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

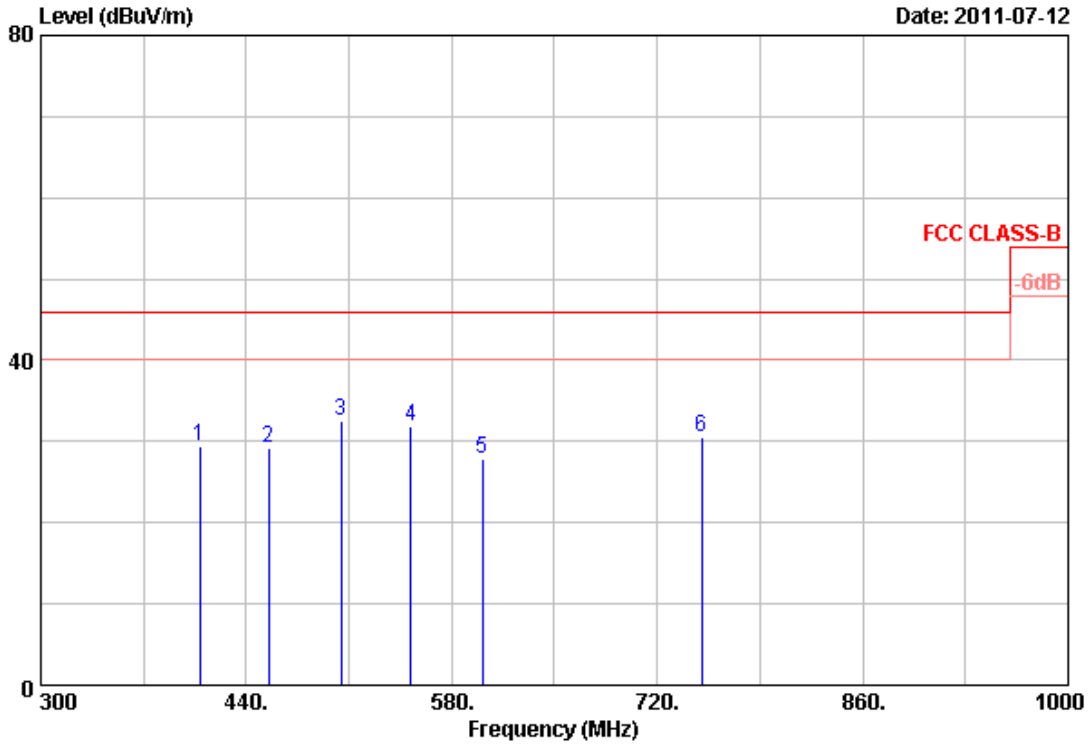


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	80.88	36.39	-13.95	22.44	40.00	-17.56	Peak	100	360
2	91.88	35.48	-11.89	23.59	43.50	-19.91	Peak	100	360
3	120.20	34.85	-9.73	25.12	43.50	-18.38	Peak	100	360
4	127.63	33.15	-7.52	25.63	43.50	-17.87	Peak	100	360
5	216.45	29.15	-16.57	12.58	46.00	-33.42	Peak	100	360
6	264.30	29.47	-13.74	15.73	46.00	-30.27	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	:	VERTICAL
Test Mode	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

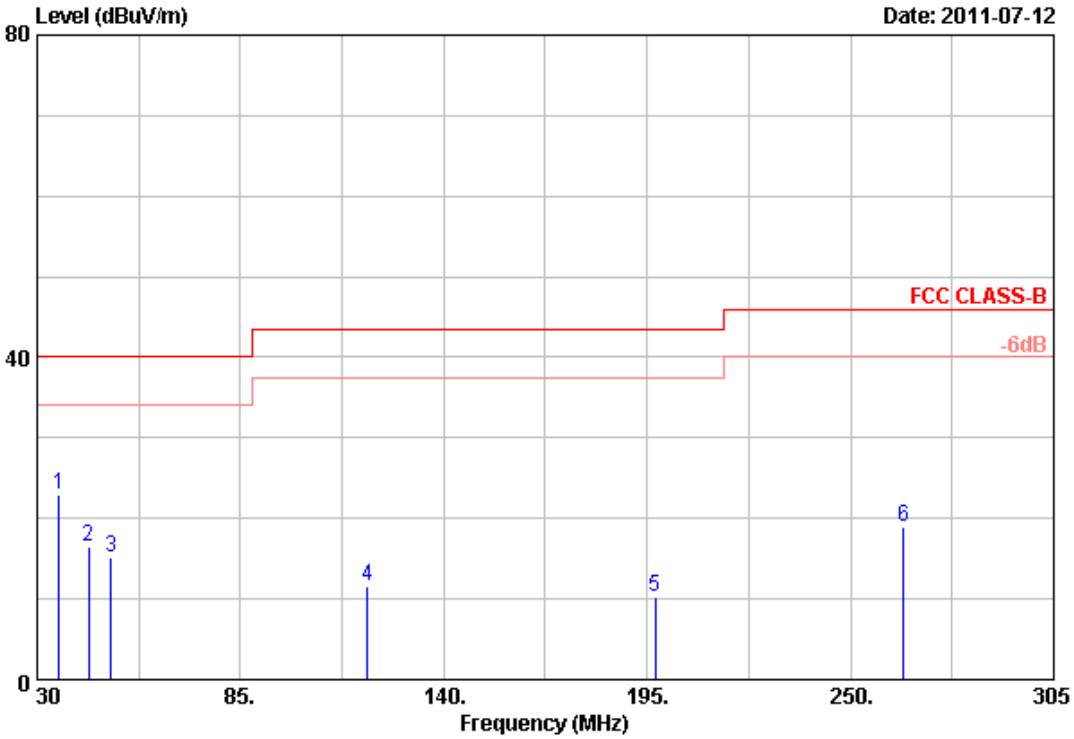


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	408.50	39.55	-10.09	29.46	46.00	-16.54	Peak	100	0
2	455.40	37.69	-8.59	29.10	46.00	-16.90	Peak	100	0
3	504.40	40.92	-8.46	32.46	46.00	-13.54	Peak	100	0
4	552.00	40.14	-8.38	31.76	46.00	-14.24	Peak	100	0
5	601.00	35.78	-8.02	27.76	46.00	-18.24	Peak	100	0
6	750.10	25.23	5.32	30.55	46.00	-15.45	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	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

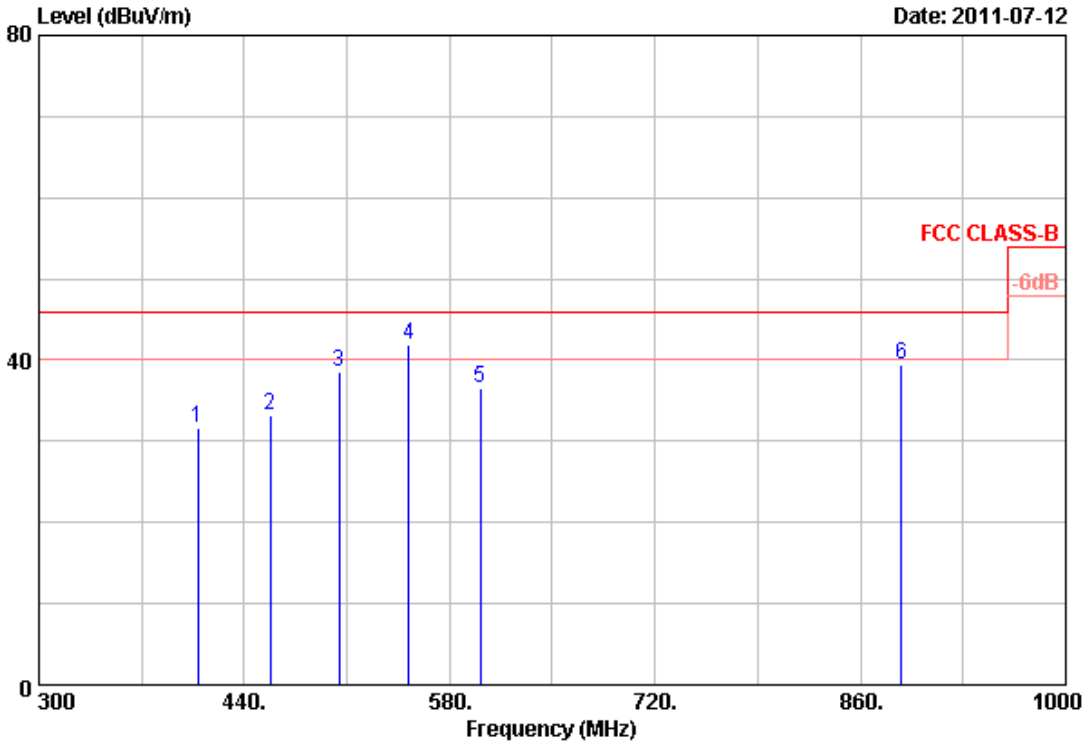


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	36.05	30.62	-7.76	22.86	40.00	-17.14	Peak	100	360
2	44.03	30.28	-13.89	16.39	40.00	-23.61	Peak	100	360
3	50.08	28.90	-13.84	15.06	40.00	-24.94	Peak	100	360
4	119.38	28.46	-16.79	11.67	43.50	-31.83	Peak	100	360
5	197.20	27.05	-16.91	10.14	43.50	-33.36	Peak	100	360
6	264.30	34.15	-15.13	19.02	46.00	-26.98	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	:	802.11g, CH1	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

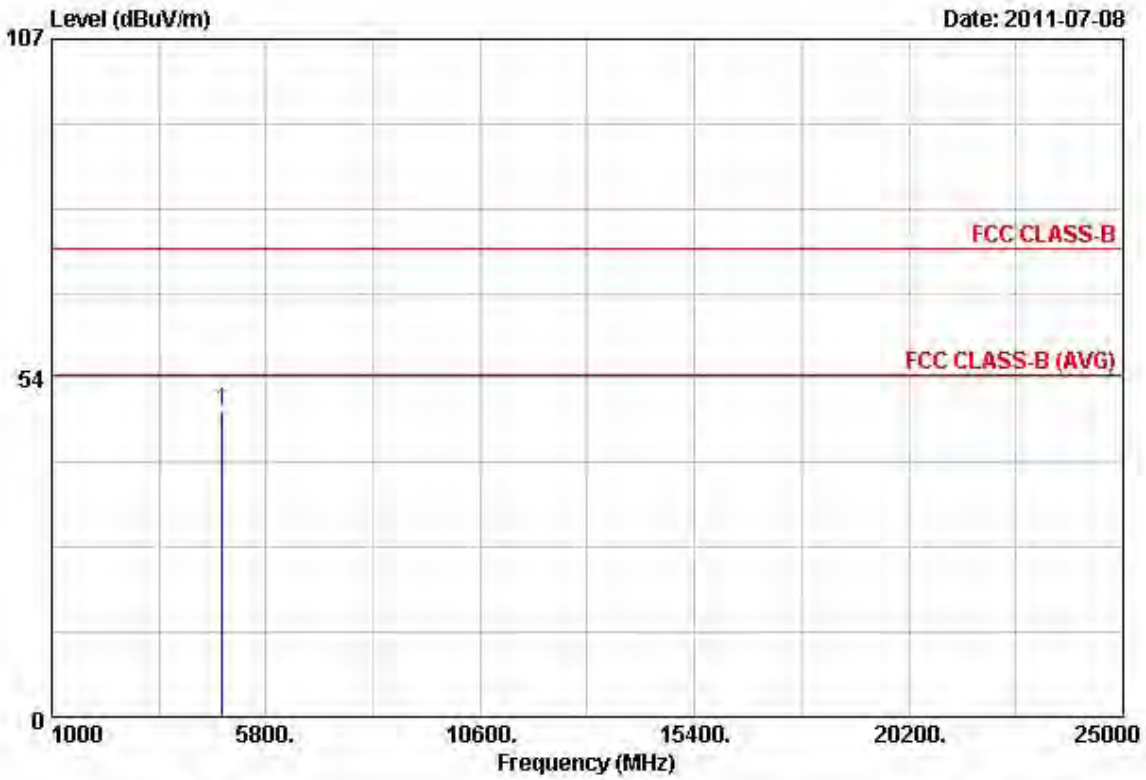


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	408.50	42.07	-10.33	31.74	46.00	-14.26	Peak	100	0
2	457.50	41.39	-8.27	33.12	46.00	-12.88	Peak	100	0
3	504.40	43.15	-4.54	38.61	46.00	-7.39	Peak	100	0
4	552.00	42.55	-0.76	41.79	46.00	-4.21	QP	100	0
5	601.00	36.12	0.42	36.54	46.00	-9.46	Peak	100	0
6	888.00	29.03	10.34	39.37	46.00	-6.63	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 802.11b/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	:	802.11b, CH1, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

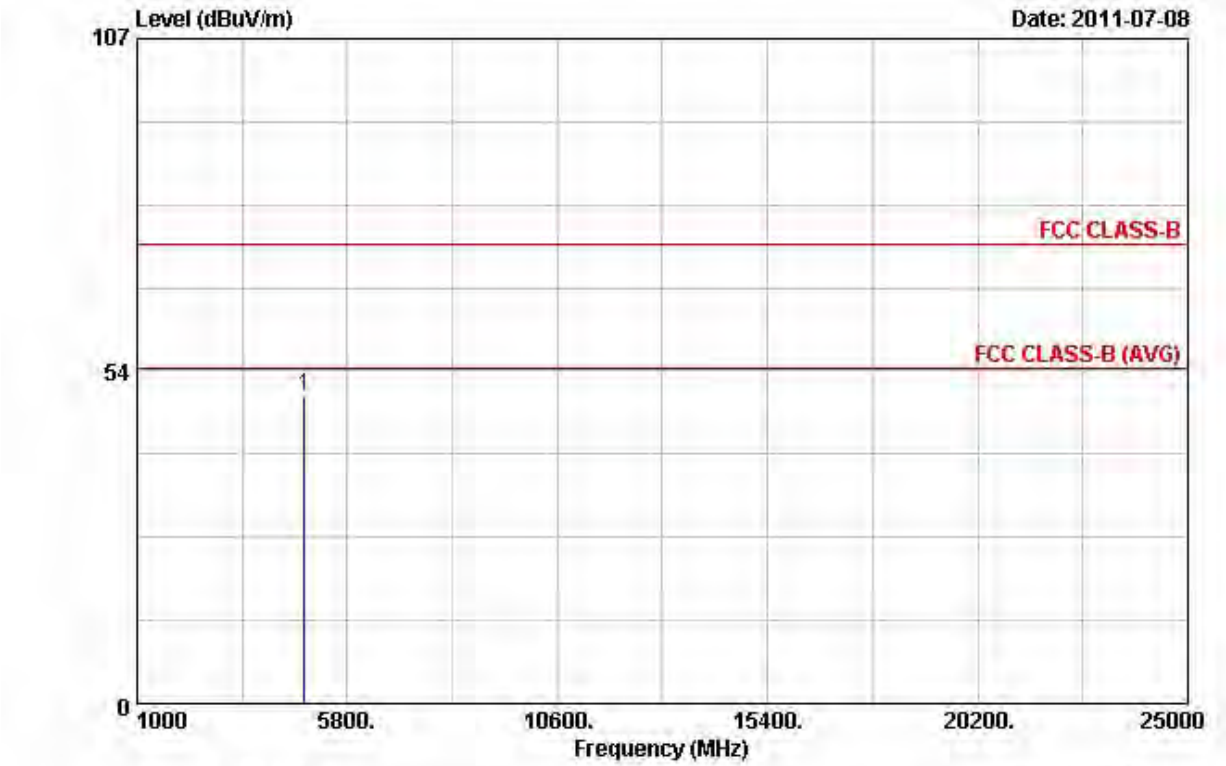


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	39.82	8.60	48.42	74.00	-25.58	Peak	100	200

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	:	802.11b, CH1, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

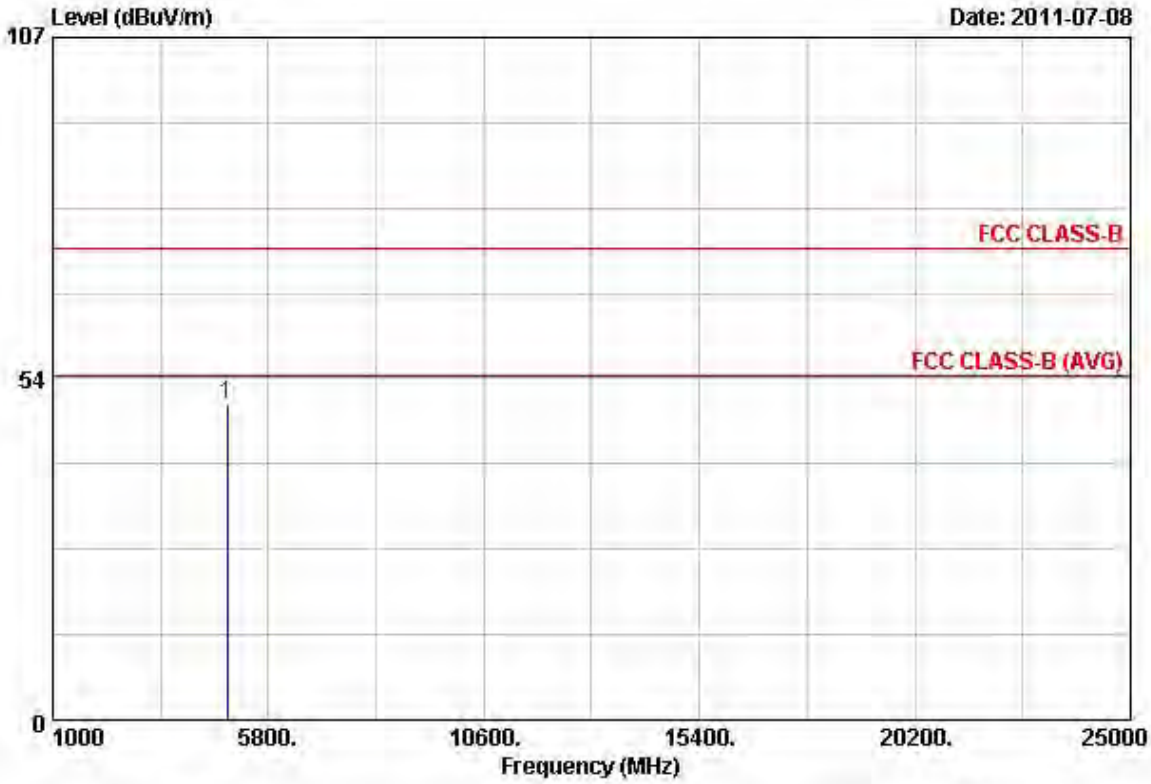


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	40.86	8.60	49.46	74.00	-24.54	Peak	100	200

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	:	802.11b, CH6, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

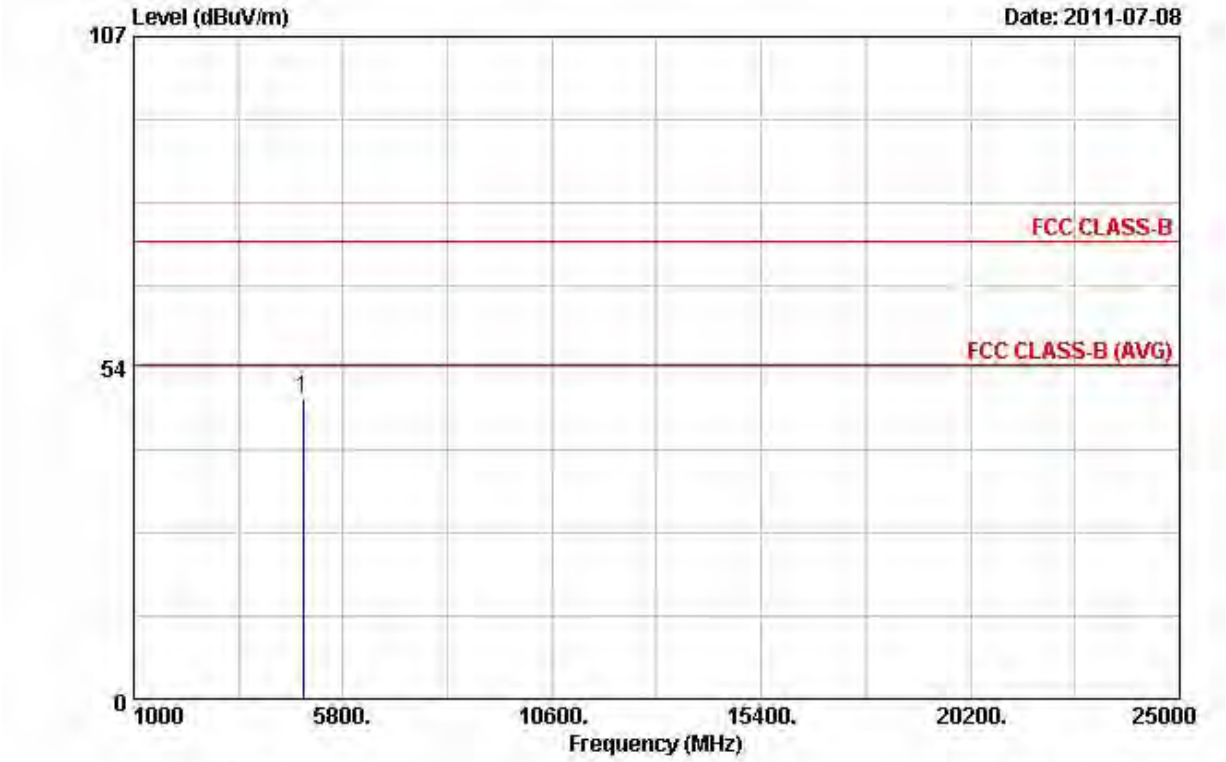


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	40.70	8.80	49.50	74.00	-24.50	Peak	100	200

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	:	802.11b, CH6, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

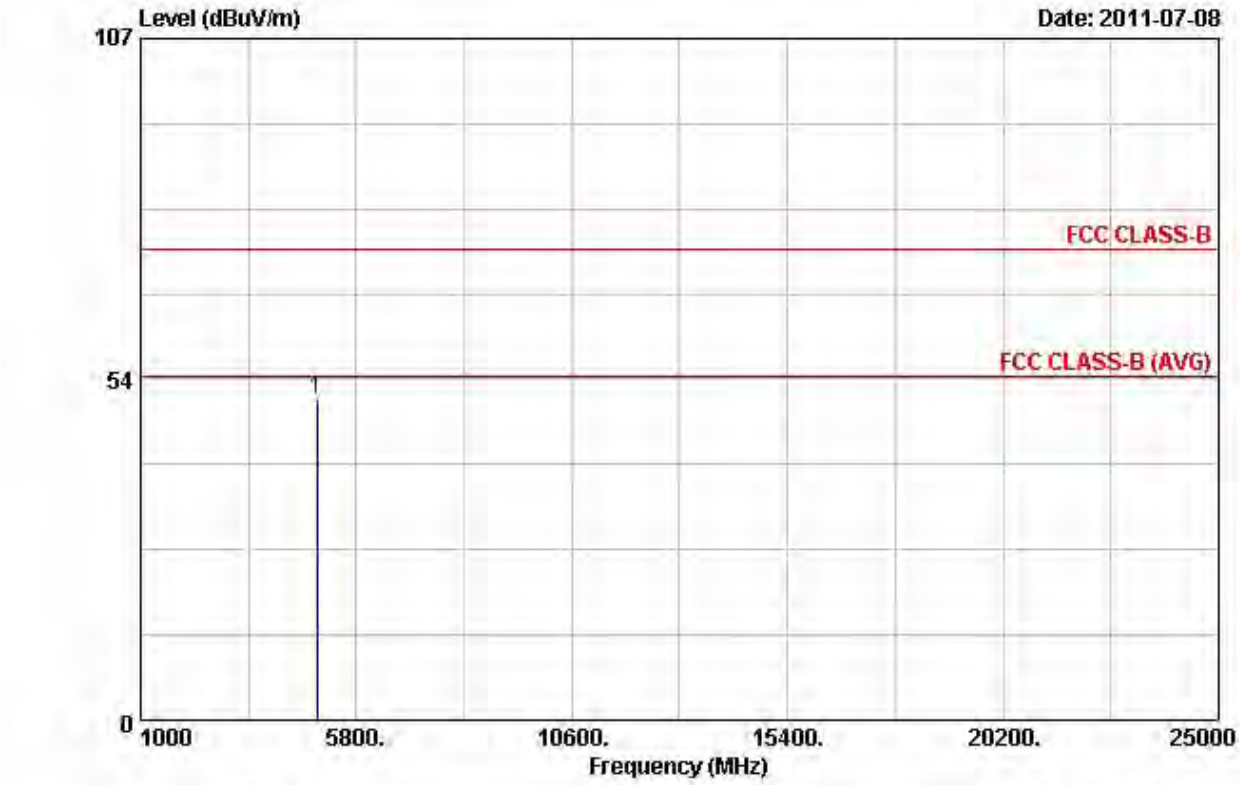


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	39.76	8.80	48.56	74.00	-25.44	Peak	100	200

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	:	802.11b, CH11, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

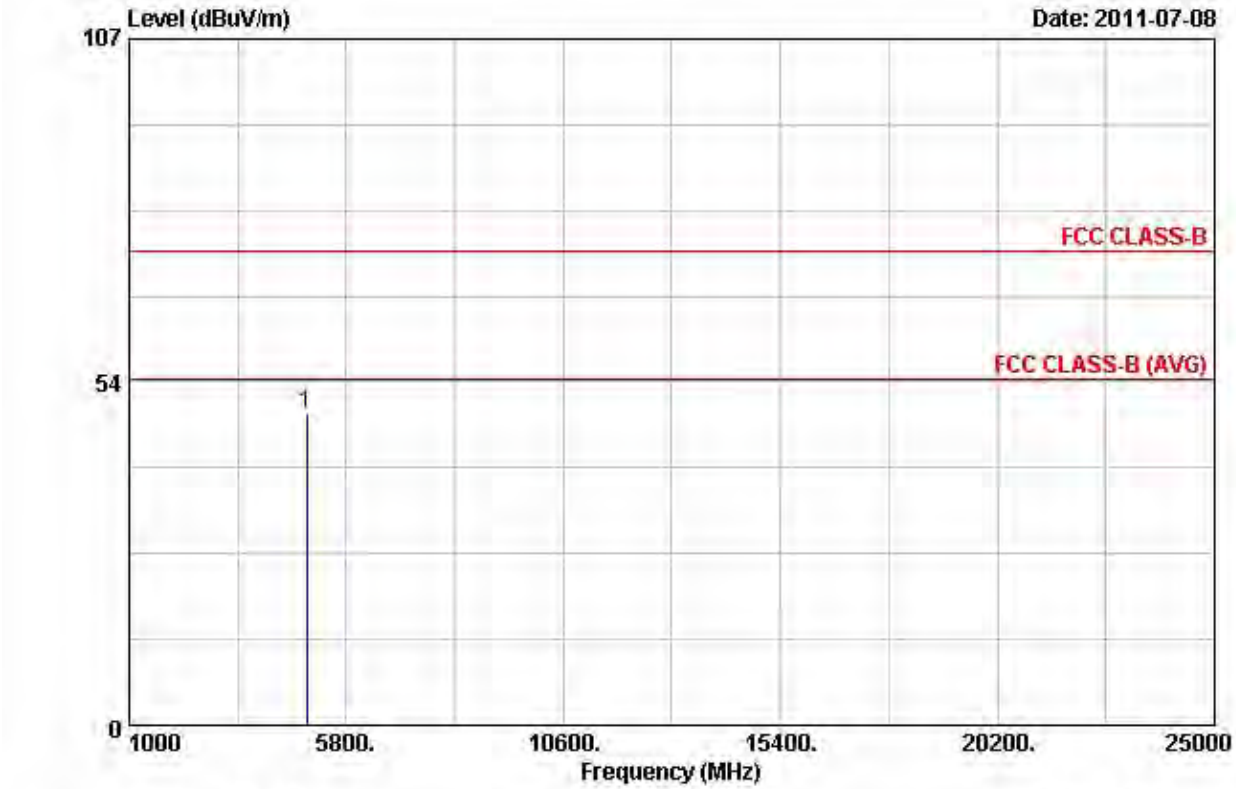


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	41.42	8.99	50.41	74.00	-23.59	Peak	100	200

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	:	802.11b, CH11, 11Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

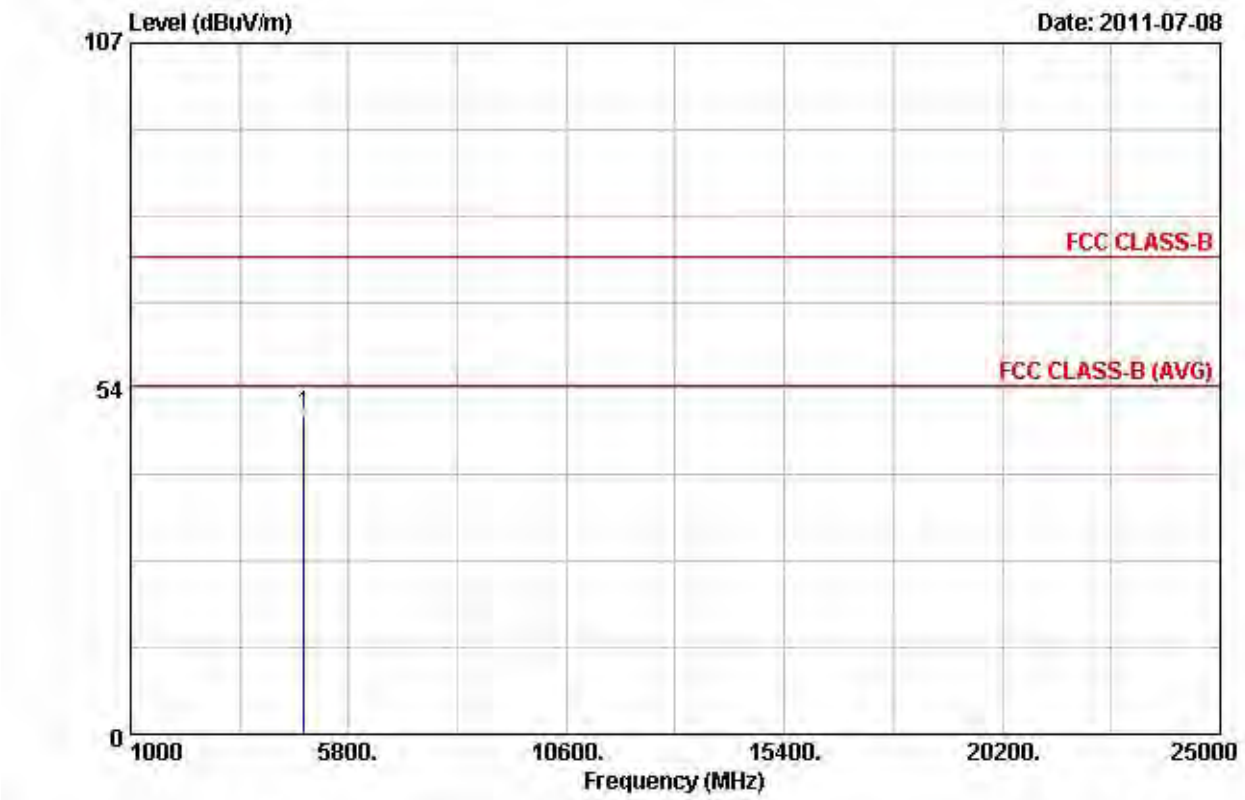


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	39.68	8.99	48.67	74.00	-25.33	Peak	100	200

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	:	802.11g, CH1, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

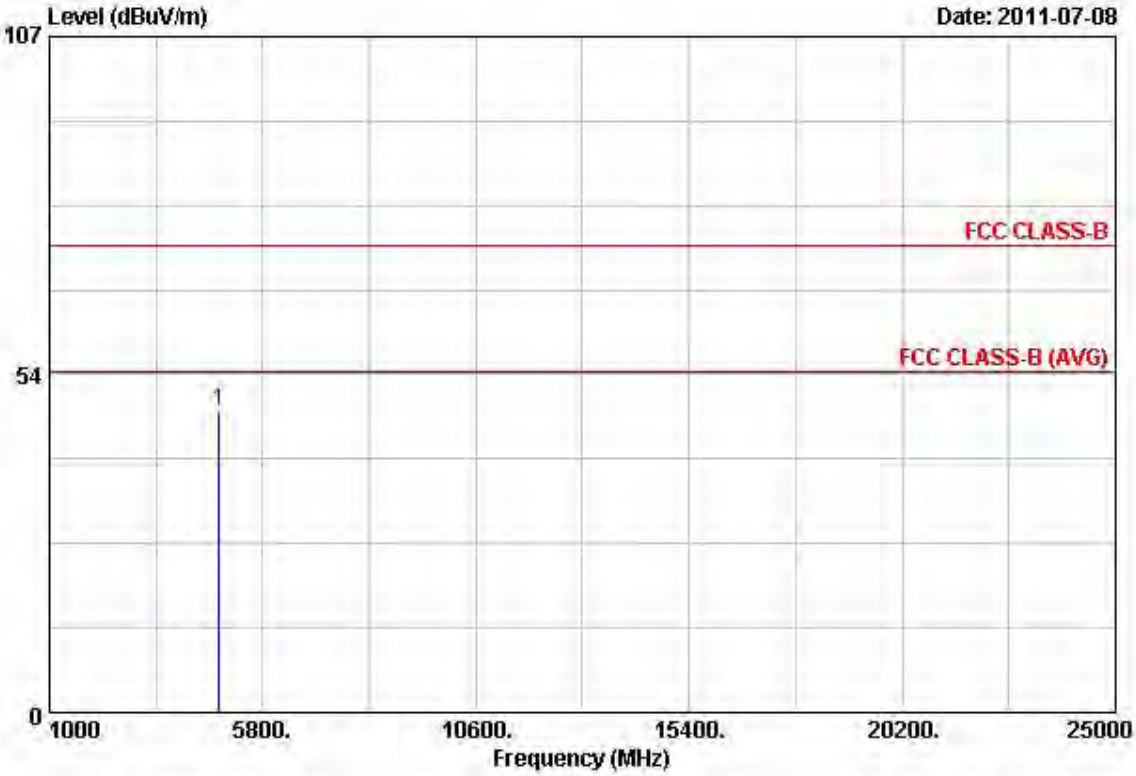


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	40.91	8.60	49.51	74.00	-24.49	Peak	100	200

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	:	802.11g, CH1, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

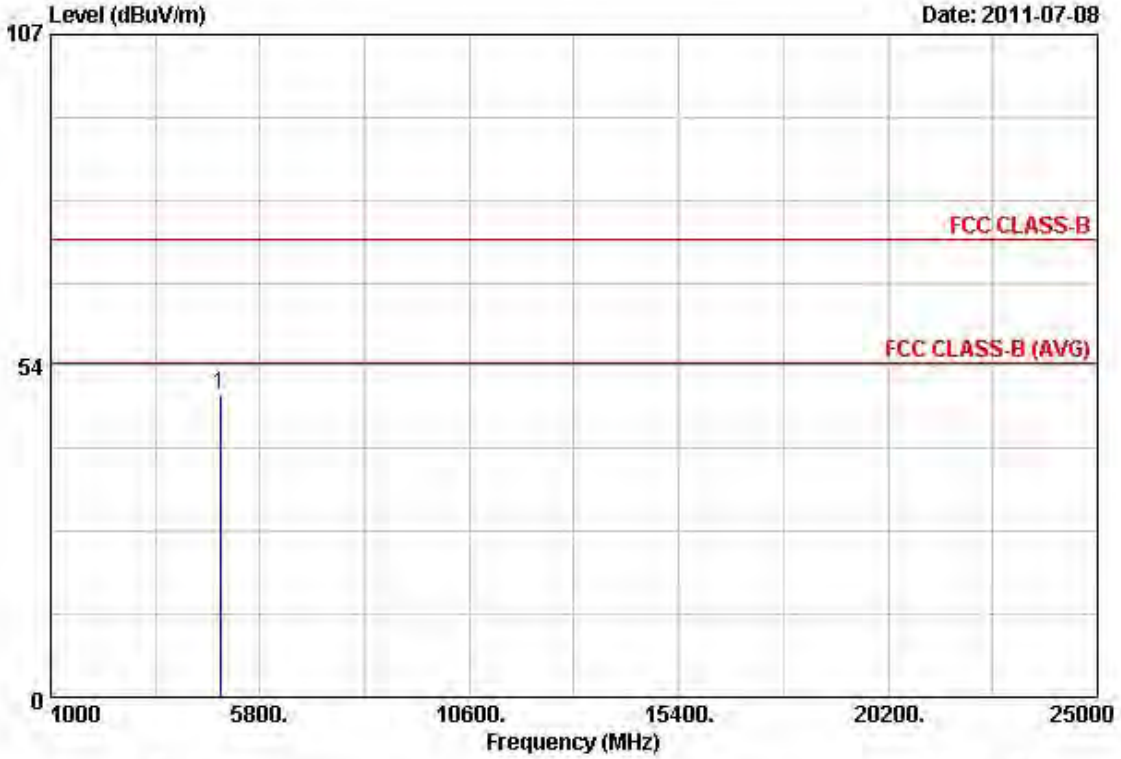


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	39.24	8.60	47.84	74.00	-26.16	Peak	100	200

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	:	802.11g, CH6, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

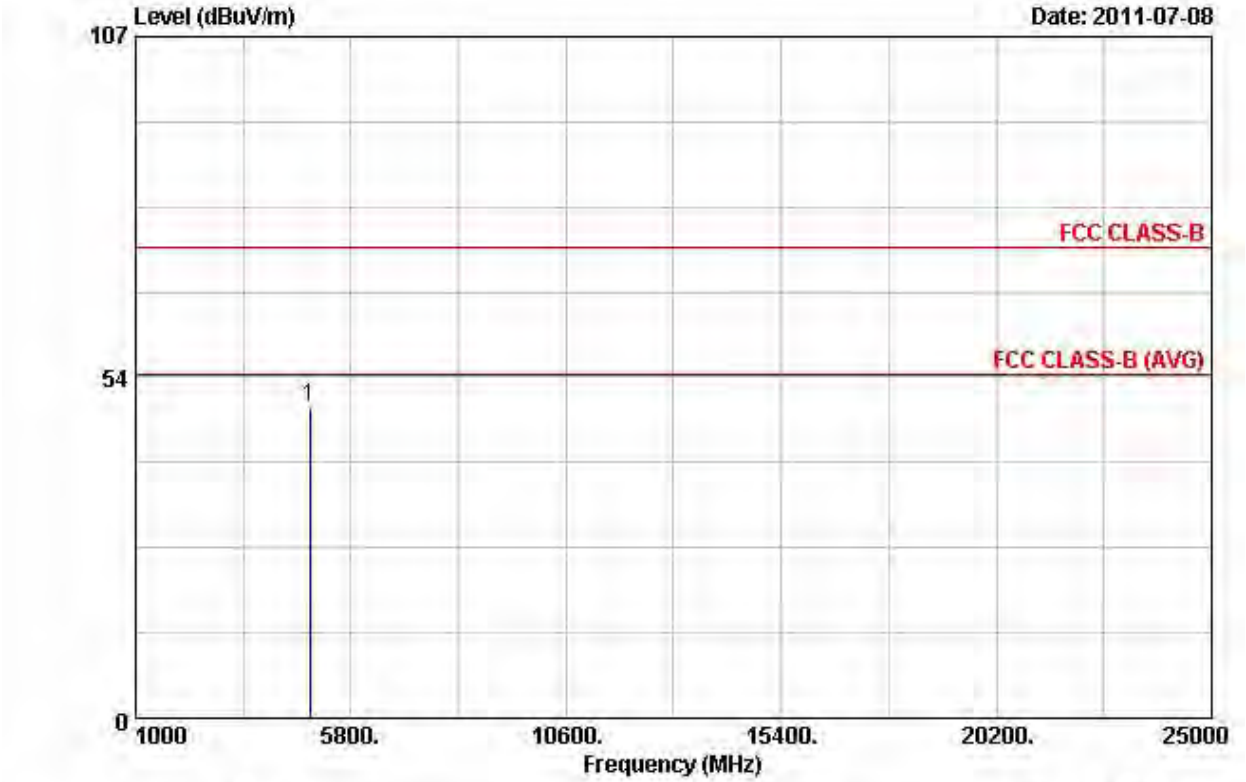


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	40.15	8.80	48.95	74.00	-25.05	Peak	100	200

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	:	802.11g, CH6, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

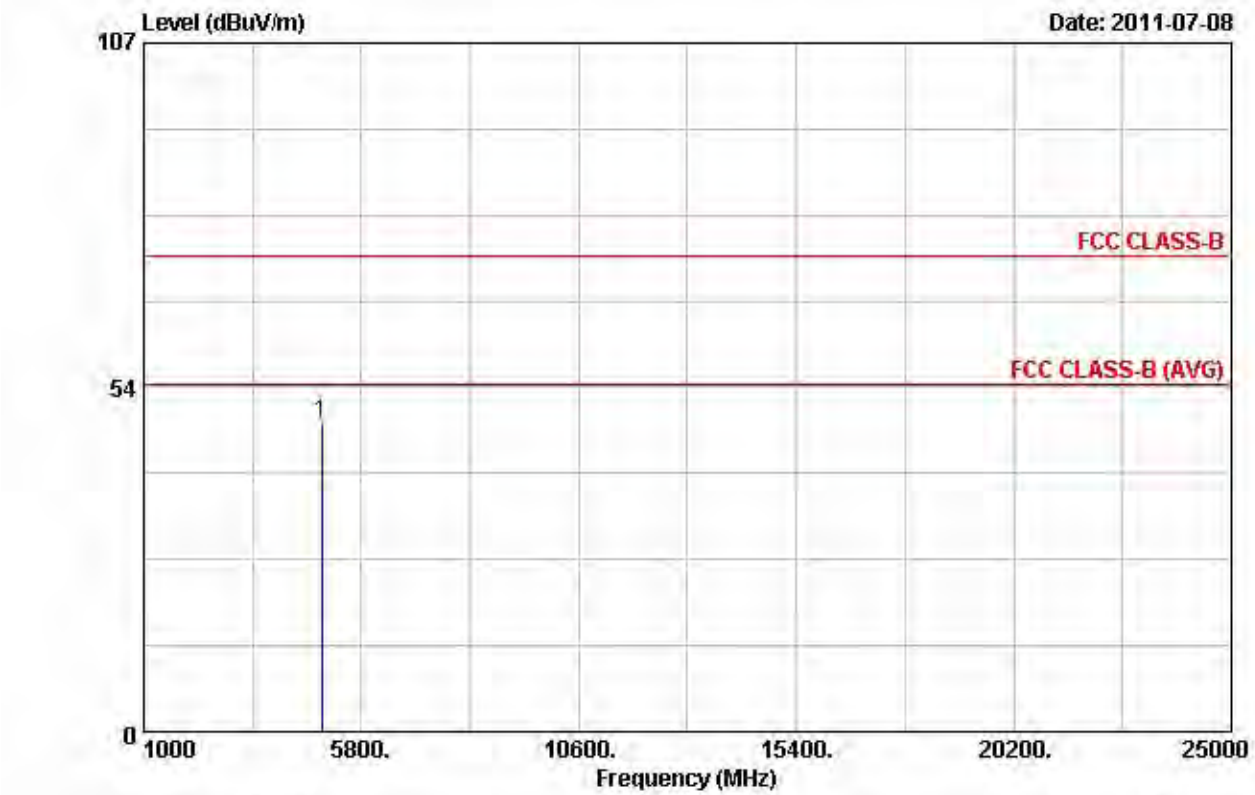


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	40.10	8.80	48.90	74.00	-25.10	Peak	100	200

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	:	802.11g, CH11, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	Humidity	:	65 %

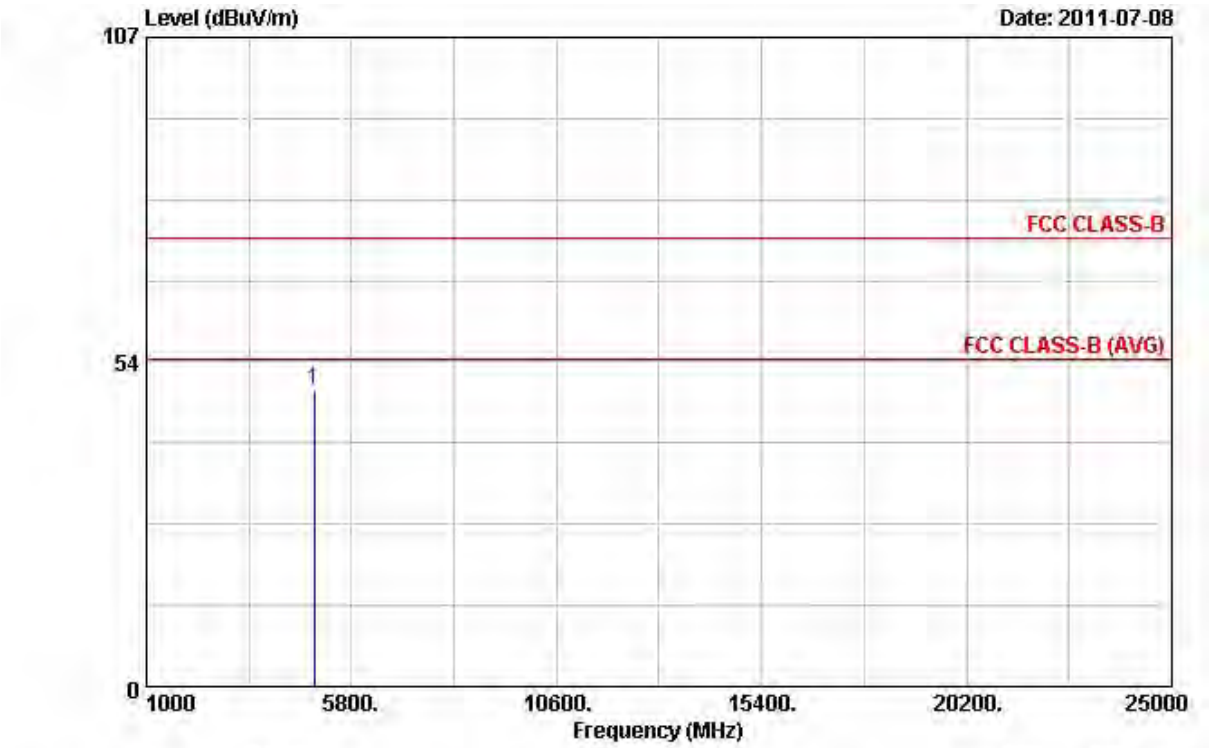


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	38.99	8.99	47.98	74.00	-26.02	Peak	100	200

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	:	802.11g, CH11, 54Mbps	Temperature	:	23 °C
Memo	:	Adapter: CWT \ KPC-010B	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	39.89	8.99	48.88	74.00	-25.12	Peak	100	200

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.

Test engineer: Ben

6. 6dB Bandwidth Measurement Data

6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

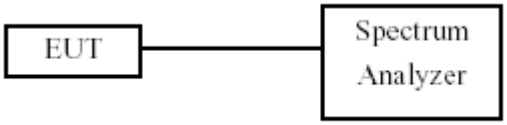
6.2 Test Procedures

a. The transmitter output was connected to the spectrum analyzer.

b. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.

c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement Equipment

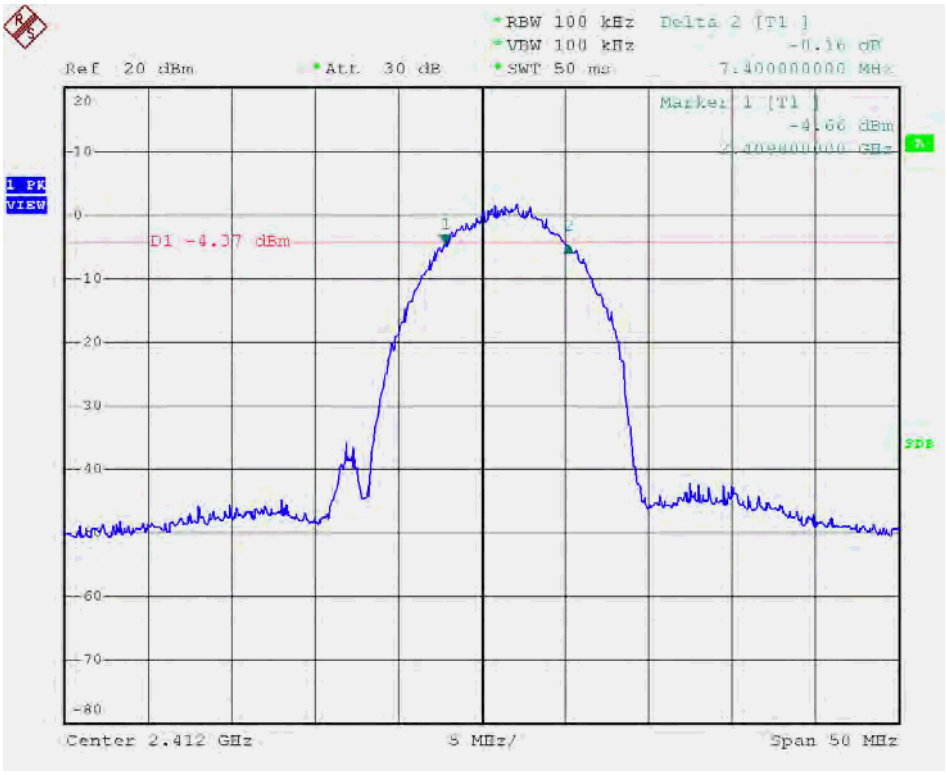
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2011/05/05	2012/05/04

6.5 Test Result and Data

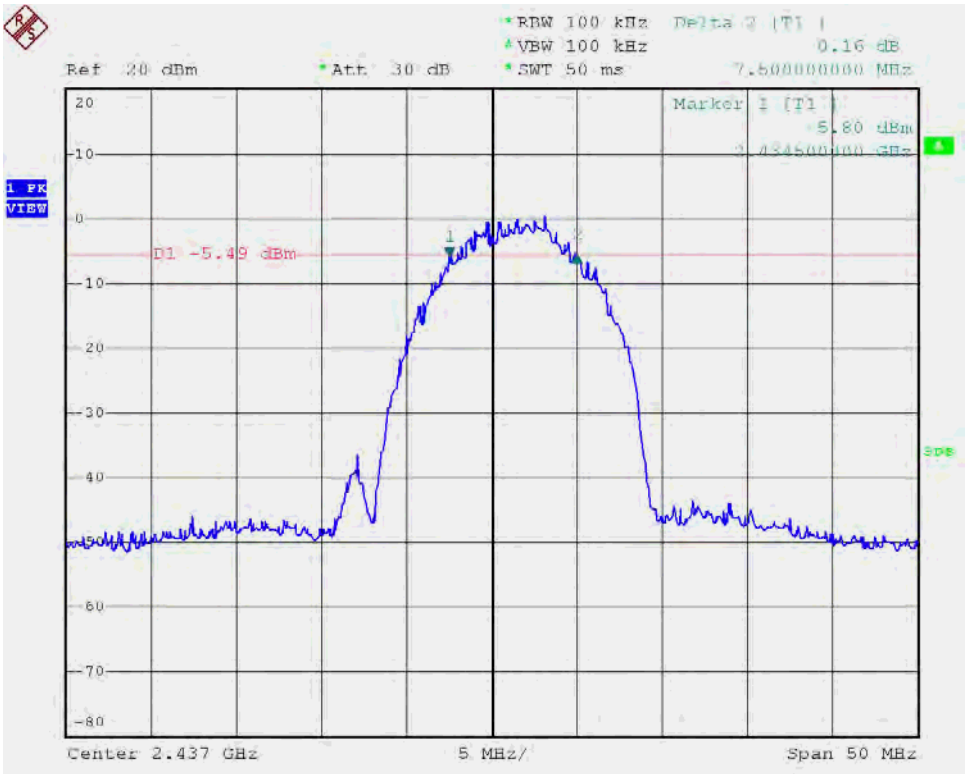
Test Date	: Jul. 05, 2011	Temperature	: 25℃
Atmospheric pressure	: 1020 hPa	Humidity	: 65%

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)
IEEE 802.11b (11Mbps)	01	7.4	13.0
	06	7.5	13.1
	11	7.5	13.3
IEEE 802.11g (54Mbps)	01	16.0	17.2
	06	16.0	17.3
	11	16.4	17.4

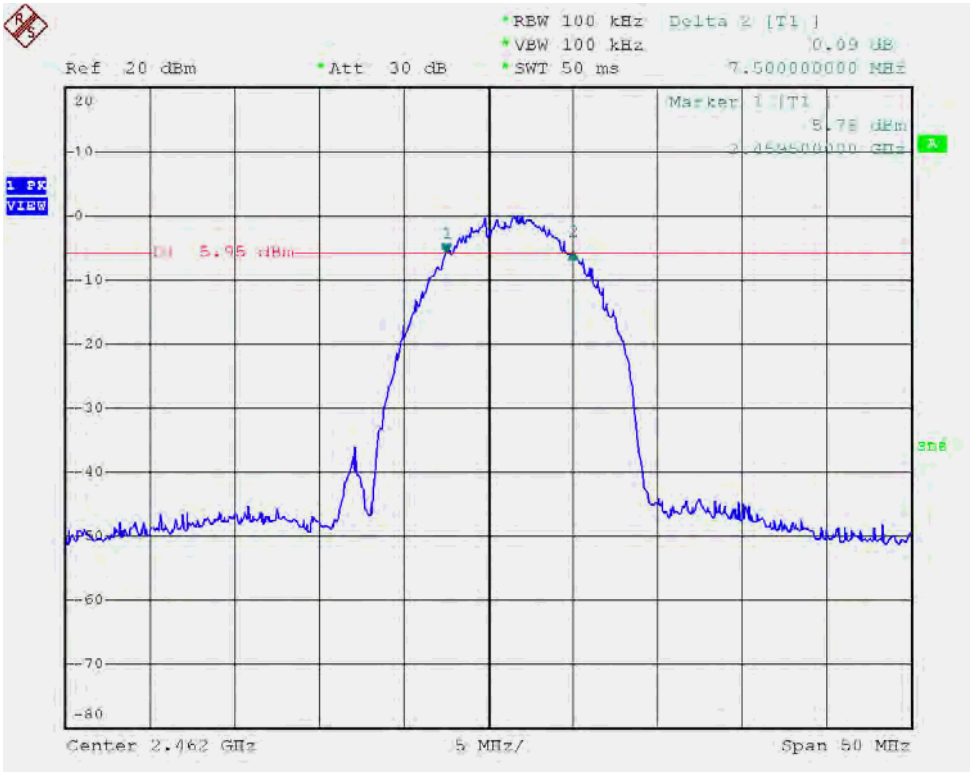
Modulation Standard: 802.11b (11Mbps)
Channel: 01



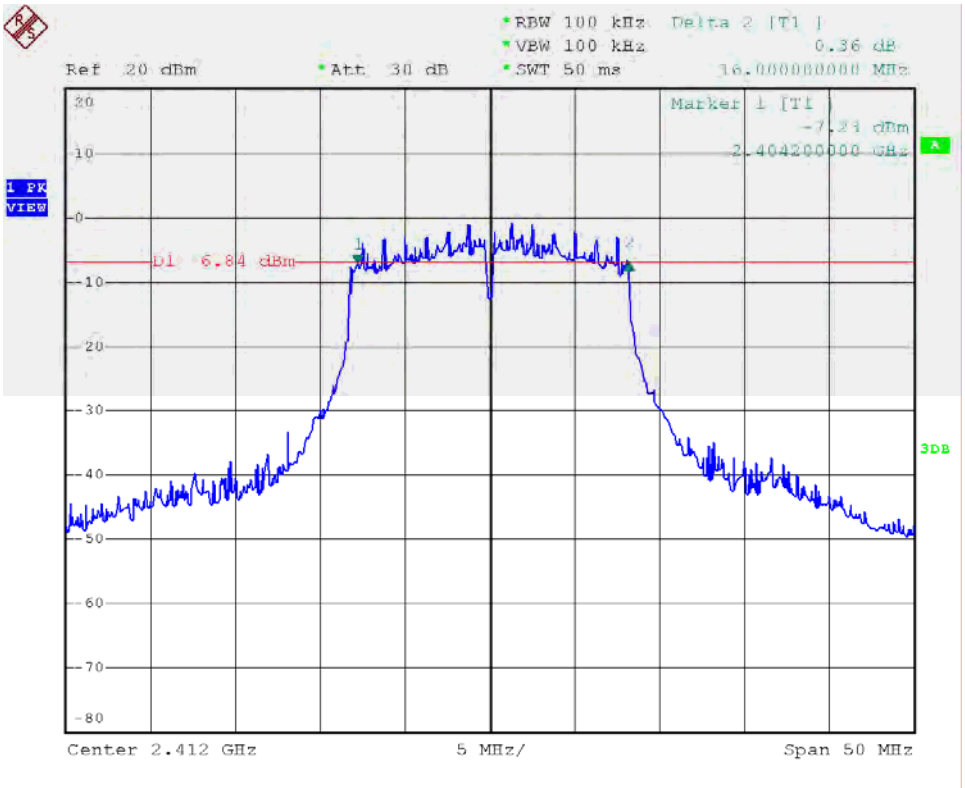
Modulation Standard: 802.11b (11Mbps)
Channel: 06



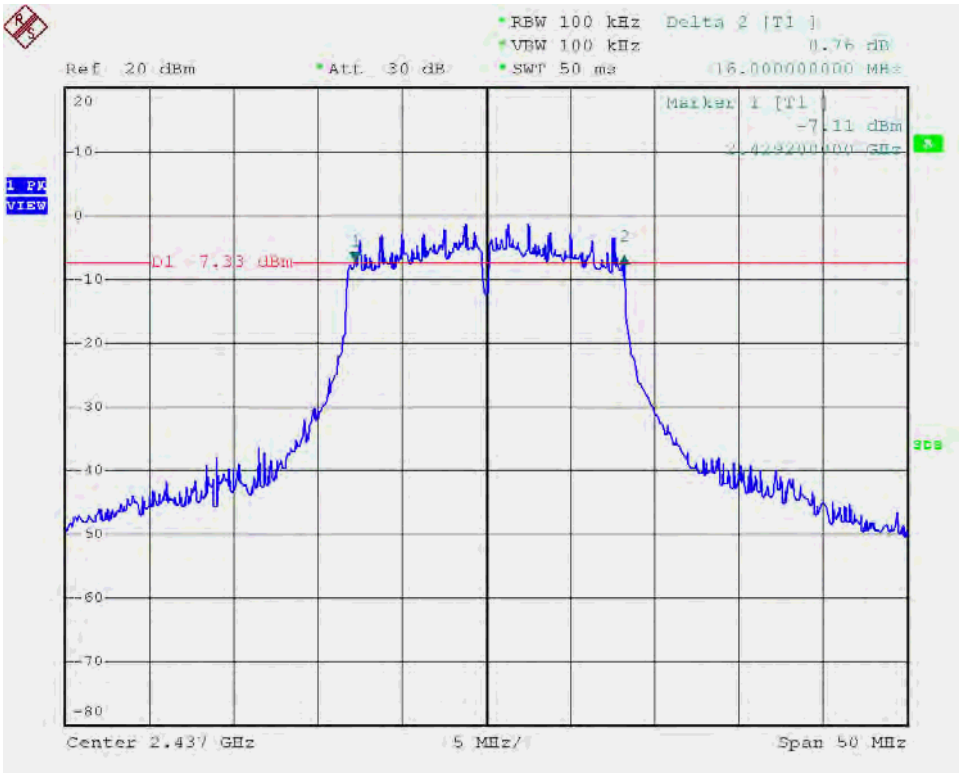
Modulation Standard: 802.11b (11Mbps)
Channel: 11



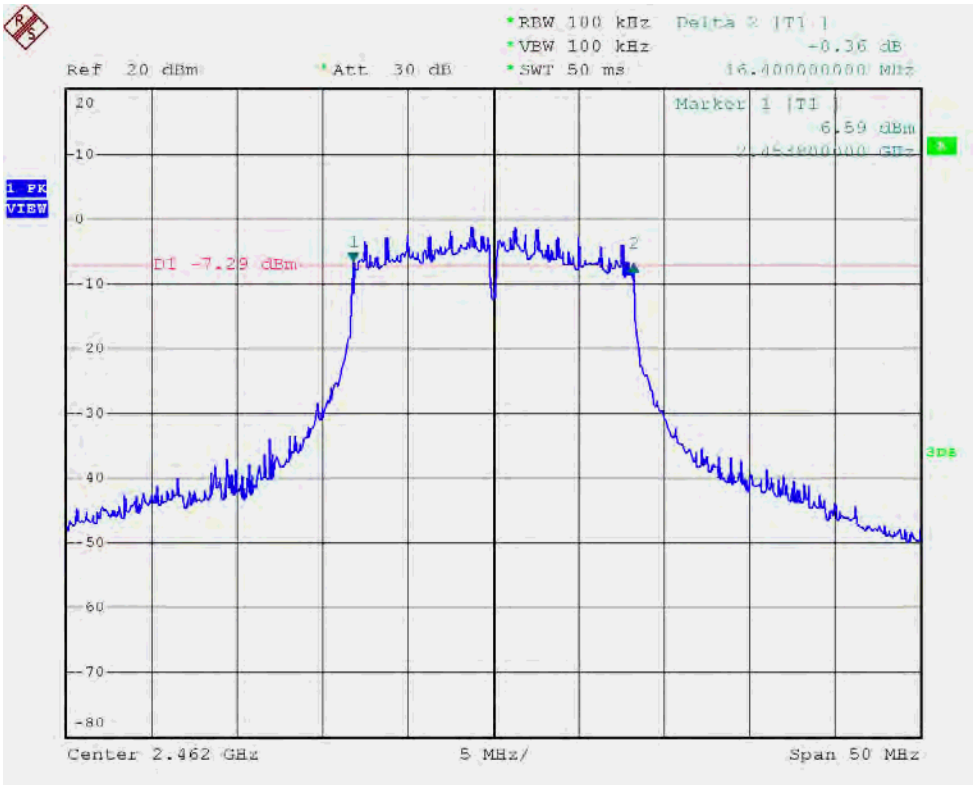
Modulation Standard: 802.11g (54Mbps)
Channel: 01



Modulation Standard: 802.11g (54Mbps)
Channel: 06



Modulation Standard: 802.11g (54Mbps)
Channel: 11



7. Maximum Peak Output Power

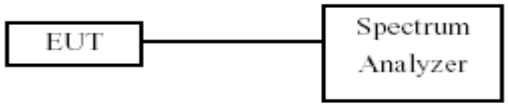
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

7.3 Test Setup Layout



7.4 Measurement equipment

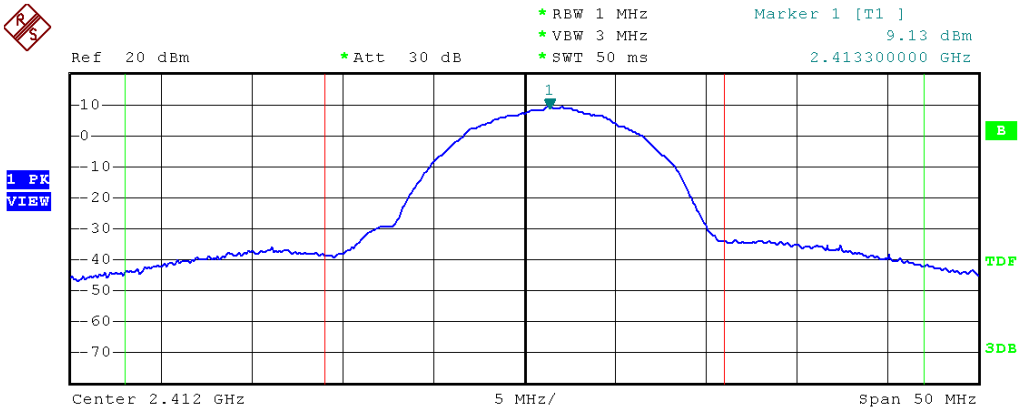
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2011/05/05	2012/05/04

7.5 Test Result and Data

Test Date	:	Jul. 05, 2011	Temperature	:	25℃
Atmospheric pressure	:	1020 hPa	Humidity	:	65%

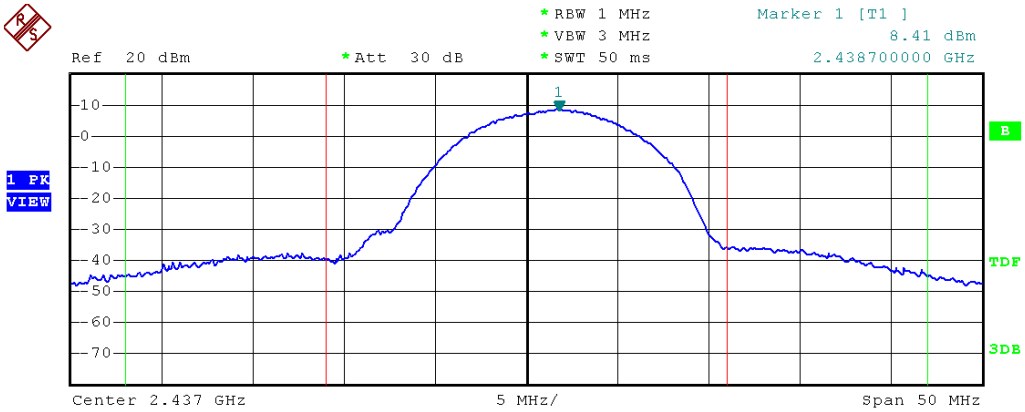
Modulation Type	Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
IEEE 802.11b (11Mbps)	01	2412	15.63	36.6
	06	2437	15.12	32.5
	11	2462	15.29	33.8
IEEE 802.11g (54Mbps)	01	2412	18.17	65.6
	06	2437	17.52	56.5
	11	2462	17.31	53.8

Modulation Standard: 802.11b (11Mbps)
Channel: 01



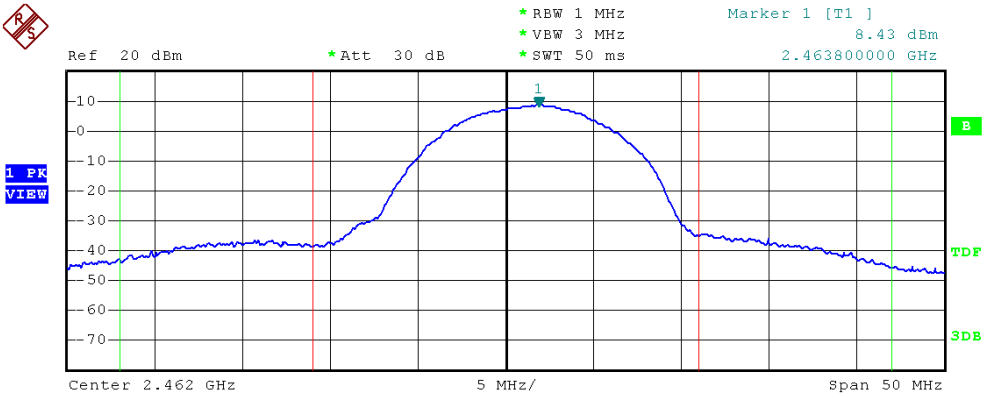
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.63 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-44.99 dB
Spacing	16.5 MHz	Upper	-42.20 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps)
Channel: 06



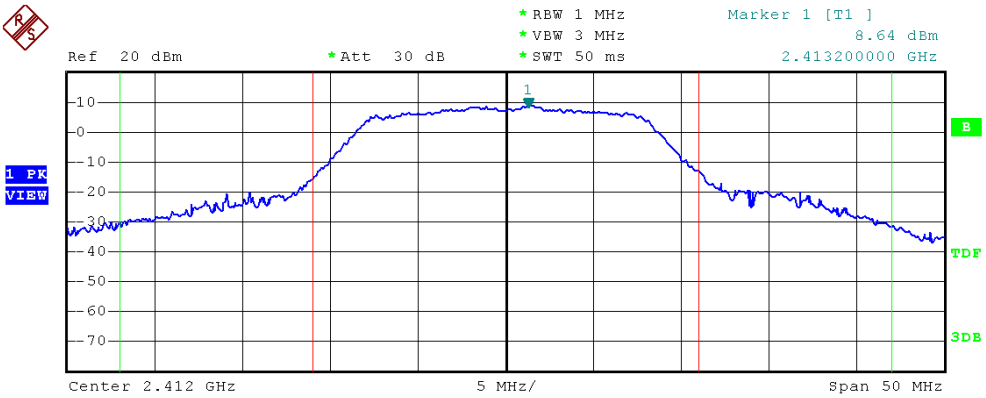
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.12 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-45.79 dB
Spacing	16.5 MHz	Upper	-43.88 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps)
Channel: 11



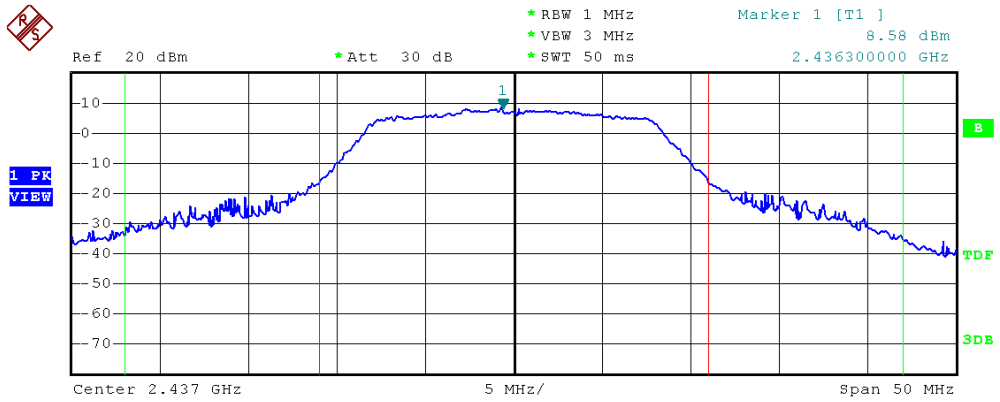
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.29 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-44.33 dB
Spacing	16.5 MHz	Upper	-43.71 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps)
Channel: 01



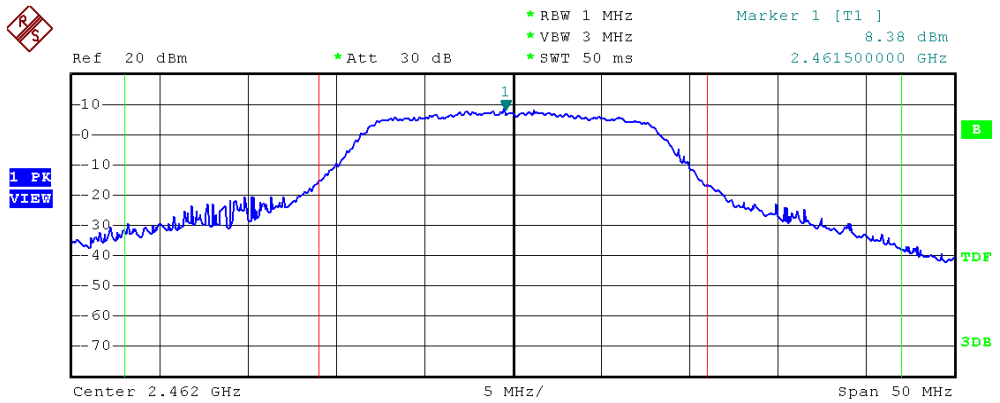
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	18.17 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.90 dB
Spacing	16.5 MHz	Upper	-29.86 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps)
Channel: 06



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	17.52 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.86 dB
Spacing	16.5 MHz	Upper	-31.31 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps)
Channel: 11



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	17.31 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-31.56 dB
Spacing	16.5 MHz	Upper	-32.66 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

8. Band Edges Measurement

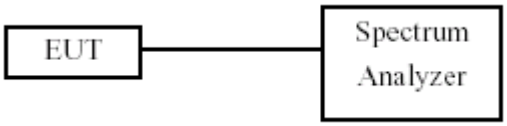
8.1 Test Limit

Below –20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

8.2 Test Procedure

a. The transmitter output was connected to the spectrum analyzer via a low lose cable.
b. Set both RBW and VBW of spectrum analyzer to 100 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
c. The band edges was measured and recorded.

8.3 Test Setup Layout



8.4 Measurement equipment

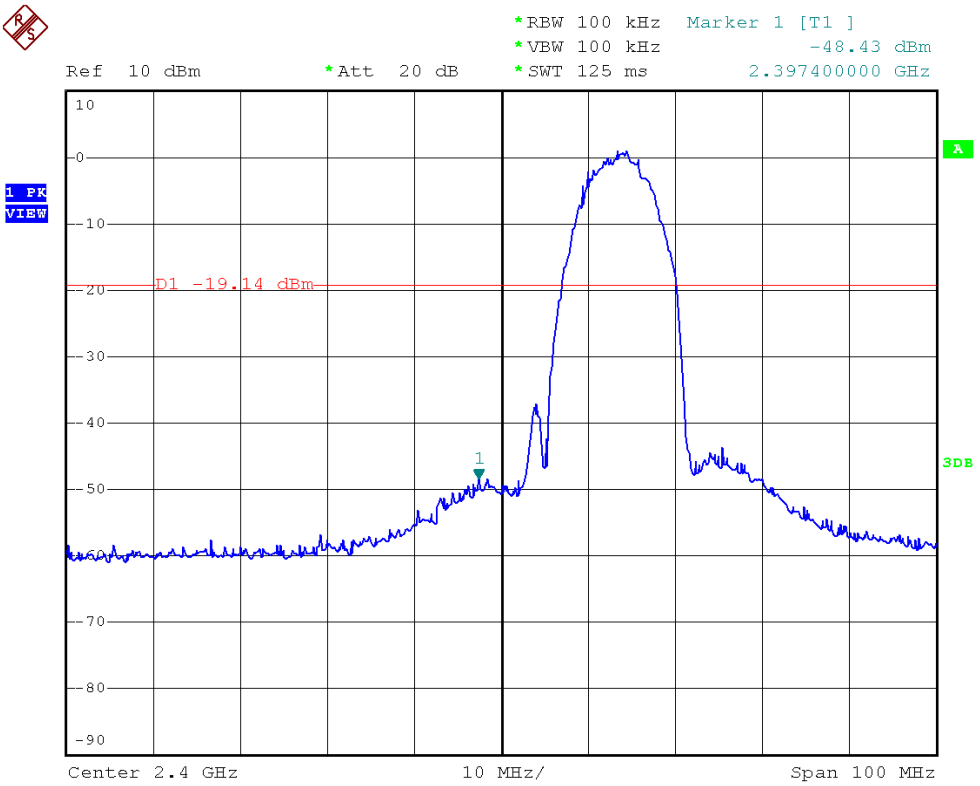
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2011/05/05	2012/05/04

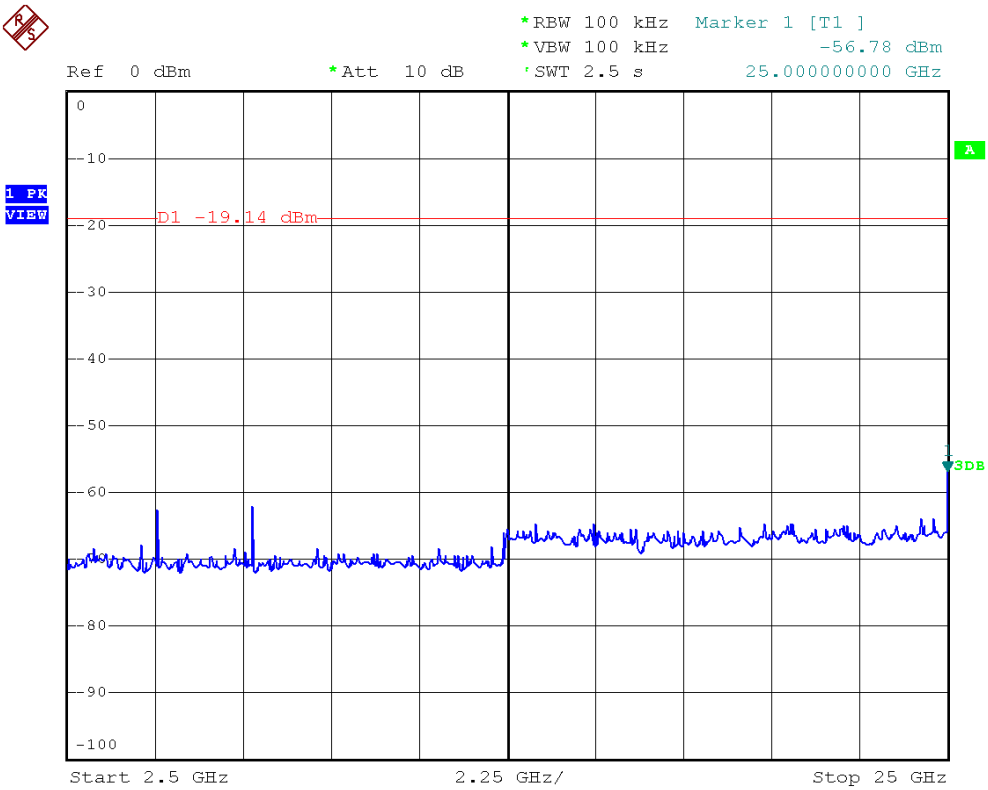
8.5 Test Result and Data

Test Date : Jul. 05, 2011 Temperature : 25℃
Atmospheric pressure : 1020 hPa Humidity : 65%

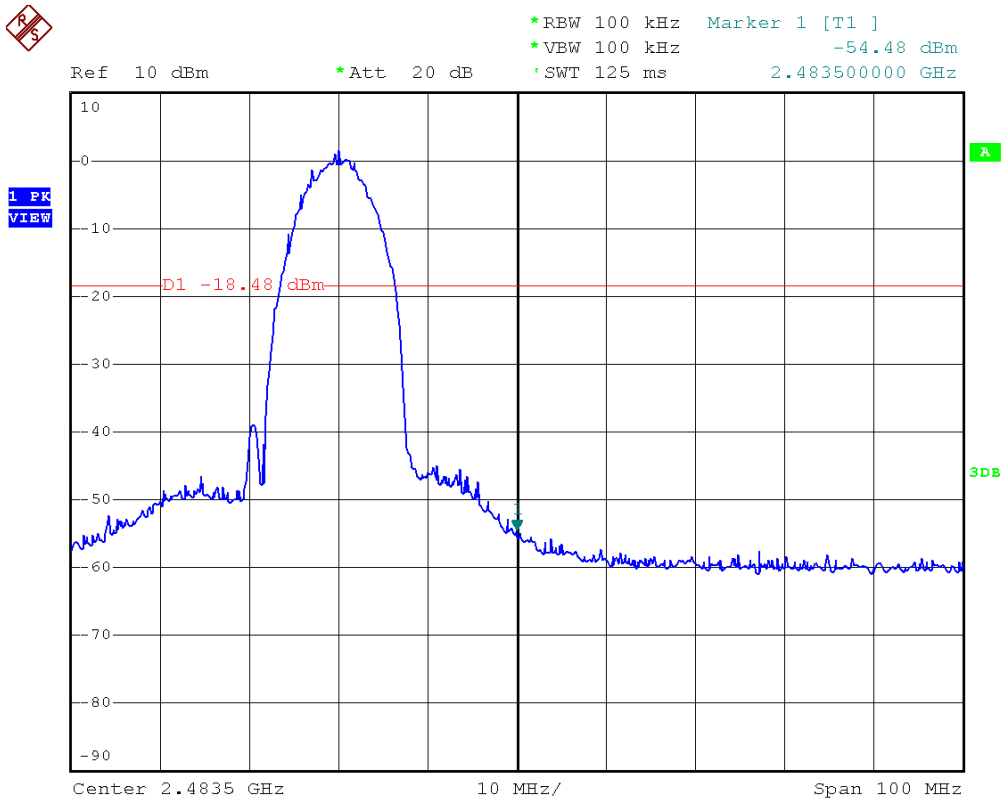
Modulation Type	Channel	Frequency (MHz)	Maximum value in frequency (MHz)	Maximum value (dBm)
IEEE 802.11b (11Mbps)	01	2412	2397.4	-48.43
	11	2462	2483.5	-54.48
IEEE 802.11g (54Mbps)	01	2412	2399.0	-36.99
	11	2462	2483.7	-46.26

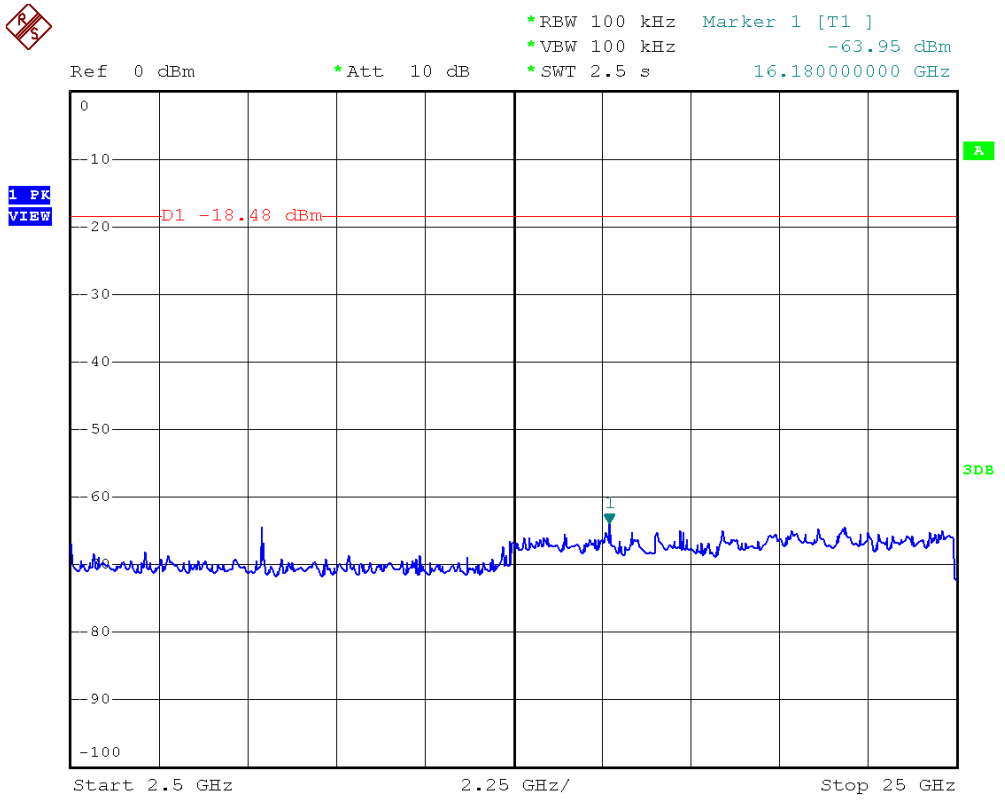
Modulation Standard: 802.11b (11Mbps)
Channel: 01



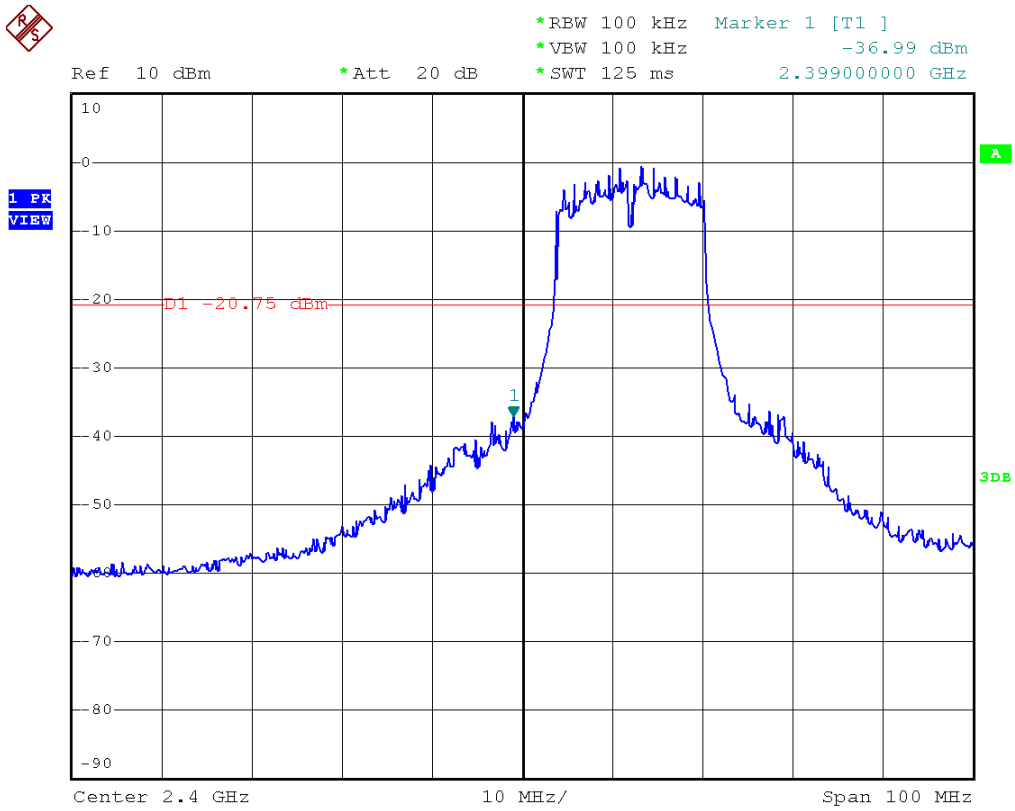


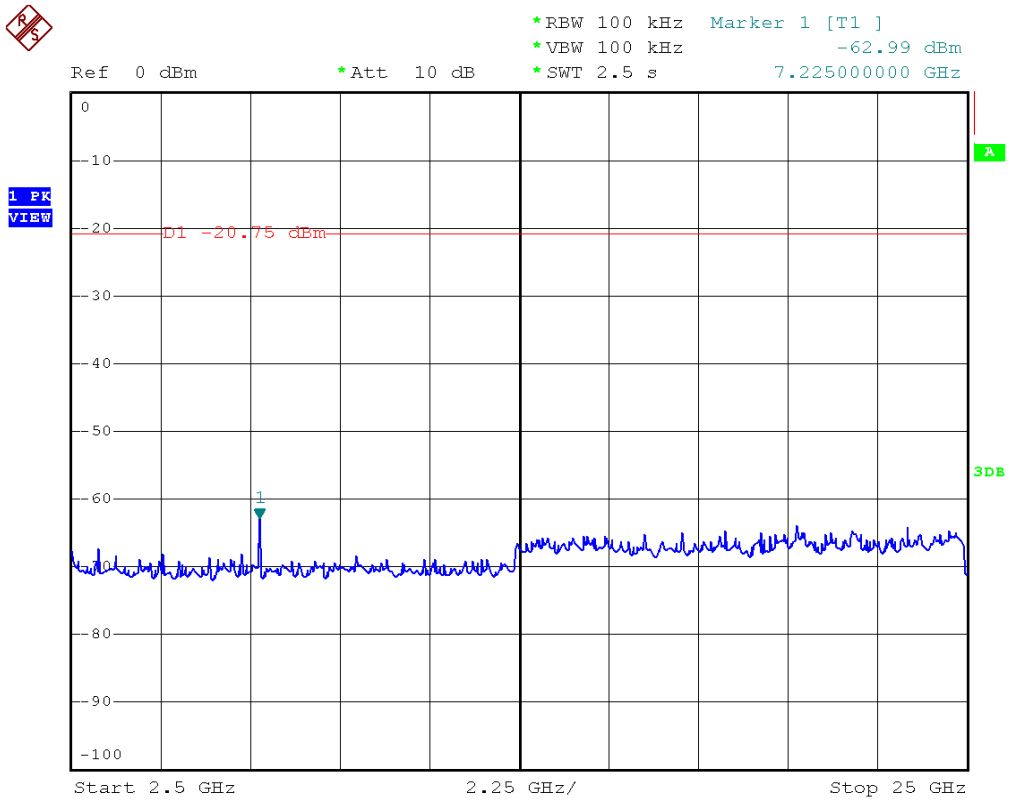
Modulation Standard: 802.11b (11Mbps)
Channel: 11



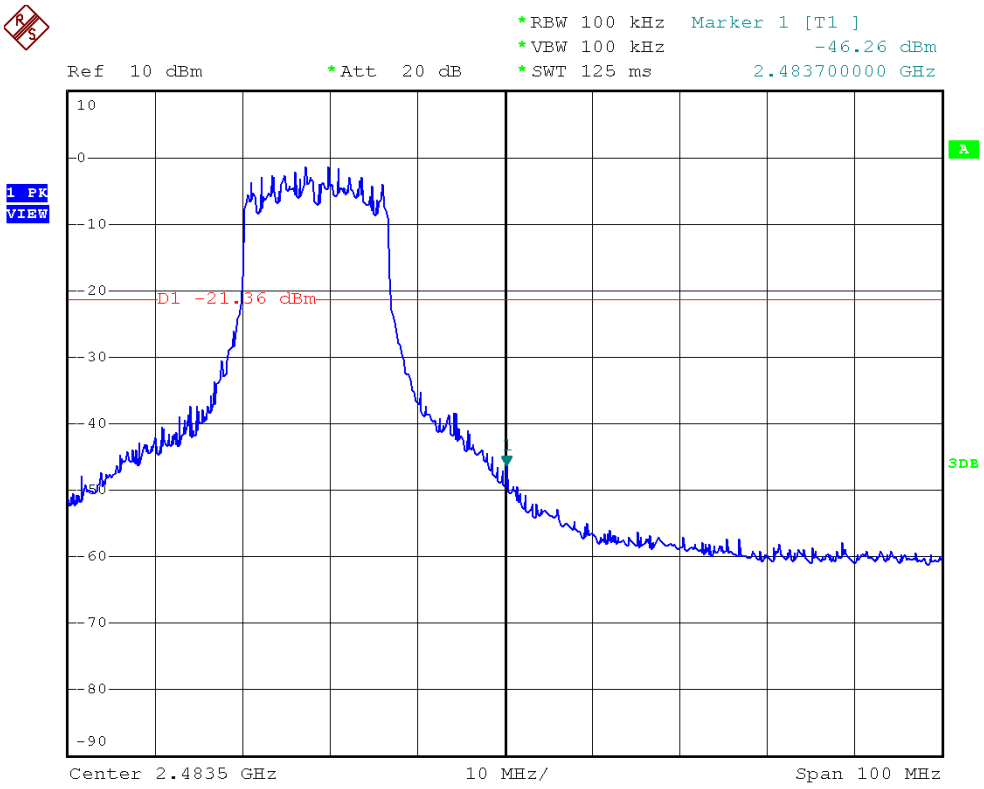


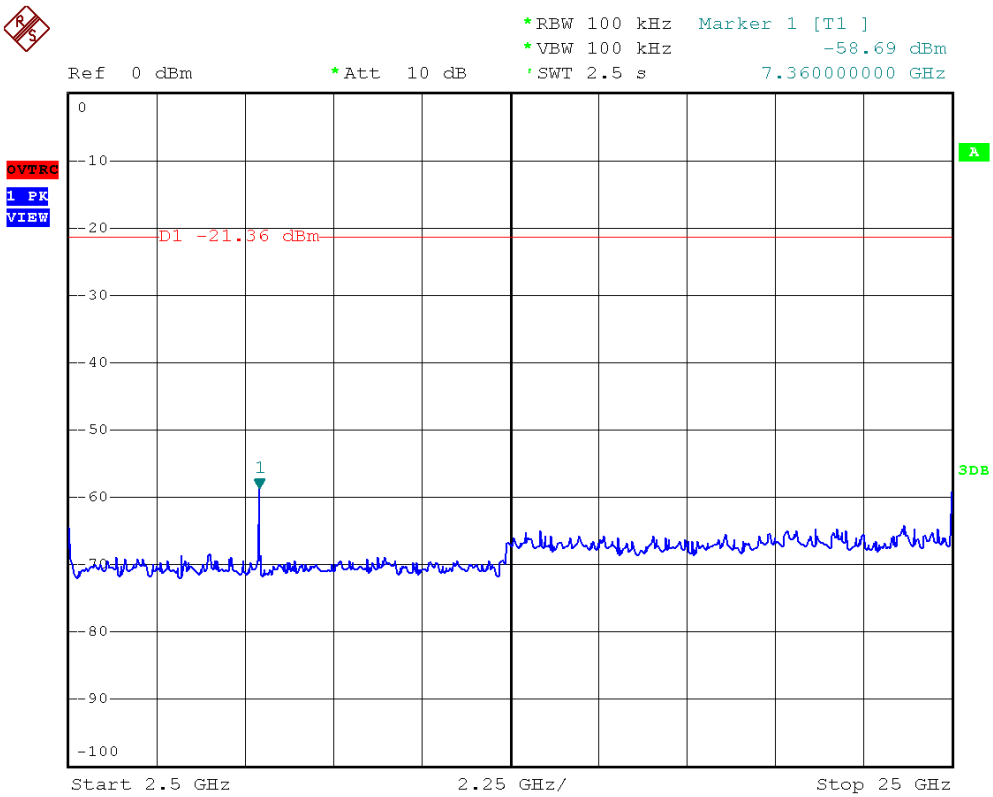
Modulation Standard: 802.11g (54Mbps)
Channel: 01





Modulation Standard: 802.11g (54Mbps)
Channel: 11





8.6 Restrict Band Emission Measurement Data

Test Date	:	Jul. 08, 2011
Temperature	:	25℃
Humidity	:	66%
Atmospheric Pressure	:	1020 hPa

Modulation Standard: IEEE 802.11b (11Mbps), Adapter: Touch \ M8-10US05R

Channel 1										Fundamental Frequency: 2412 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2333.46	H	50.71	-0.72	49.99	Peak	74	54	-24.01	146	1.00
------	H	------	------	------	Ave	74	54	------	------	------
2389.76	V	50.44	-0.52	49.92	Peak	74	54	-24.08	218	1.00
------	V	------	------	------	Ave	74	54	------	------	------
Channel 11										Fundamental Frequency: 2462 MHz
2484.99	H	50.69	-0.19	50.50	Peak	74	54	-23.50	206	1.00
------	H	------	------	------	Ave	74	54	------	------	------
2487.84	V	51.06	-0.17	50.89	Peak	74	54	-23.11	291	1.00
------	V	------	------	------	Ave	74	54	------	------	------

Modulation Standard: IEEE 802.11g (54Mbps), Adapter: Touch \ M8-10US05R

Channel 1										Fundamental Frequency: 2412 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.76	H	62.69	-0.52	62.17	Peak	74	54	-11.83	133	1.00
2389.82	H	42.52	-0.52	42.00	Ave	74	54	-12.00	181	1.00
2389.56	V	63.27	-0.52	62.75	Peak	74	54	-11.25	258	1.00
2389.82	V	43.94	-0.52	43.42	Ave	74	54	-10.58	221	1.00
Channel 11										Fundamental Frequency: 2462 MHz
2484.04	H	56.60	-0.19	56.41	Peak	74	54	-17.59	232	1.00
2484.04	H	40.16	-0.19	39.97	Ave	74	54	-14.03	240	1.00
2483.66	V	55.93	-0.19	55.74	Peak	74	54	-18.26	277	1.00
2483.66	V	40.49	-0.19	40.30	Ave	74	54	-13.70	182	1.00

Notes:
1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.

Test Date	:	Jul. 08, 2011
Temperature	:	25℃
Humidity	:	66%
Atmospheric Pressure	:	1020 hPa

Modulation Standard: IEEE 802.11b (11Mbps), Adapter: CWT \ KPC-010B

Channel 1										Fundamental Frequency: 2412 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2337.74	H	50.81	-0.70	50.11	Peak	74	54	-23.9	126	1.00
------	H	------	------	------	Ave	74	54	------	------	------
2355.90	V	50.15	-0.64	49.51	Peak	74	54	-24.49	332	1.00
------	V	------	------	------	Ave	74	54	------	------	------
Channel 11										Fundamental Frequency: 2462 MHz
2498.02	H	50.04	-0.13	49.91	Peak	74	54	-24.09	116	1.00
------	H	------	------	------	Ave	74	54	------	------	------
2486.51	V	50.38	-0.19	50.19	Peak	74	54	-23.81	240	1.00
------	V	------	------	------	Ave	74	54	------	------	------

Modulation Standard: IEEE 802.11g (54Mbps), Adapter: CWT \ KPC-010B

Channel 1										Fundamental Frequency: 2412 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2387.76	H	61.17	-0.52	60.65	Peak	74	54	-13.35	234	1.00
2389.76	H	37.58	-0.52	37.06	Ave	74	54	-16.94	124	1.00
2389.76	V	57.74	-0.52	57.22	Peak	74	54	-16.78	227	1.00
2389.89	V	40.23	-0.52	39.71	Ave	74	54	-14.29	131	1.00
Channel 11										Fundamental Frequency: 2462 MHz
2483.66	H	59.08	-0.19	58.89	Peak	74	54	-15.11	241	1.00
2483.66	H	41.21	-0.19	41.02	Ave	74	54	-12.98	112	1.00
2483.58	V	55.06	-0.19	54.87	Peak	74	54	-19.13	266	1.00
2483.58	V	38.93	-0.19	38.74	Ave	74	54	-15.26	98	1.00

Notes:
1. Result = Meter Reading + Factor
2. Factor = Antenna Factor + Cable Loss – Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.

9. Power Spectral Density

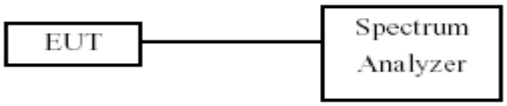
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

a. The transmitter output was connected to spectrum analyzer.
b. The spectrum analyzer's resolution bandwidth were set at 3KHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=span/3KHz.
c. The power spectral density was measured and recorded.
d. The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

9.3 Test Setup Layout



9.4 Measurement equipment

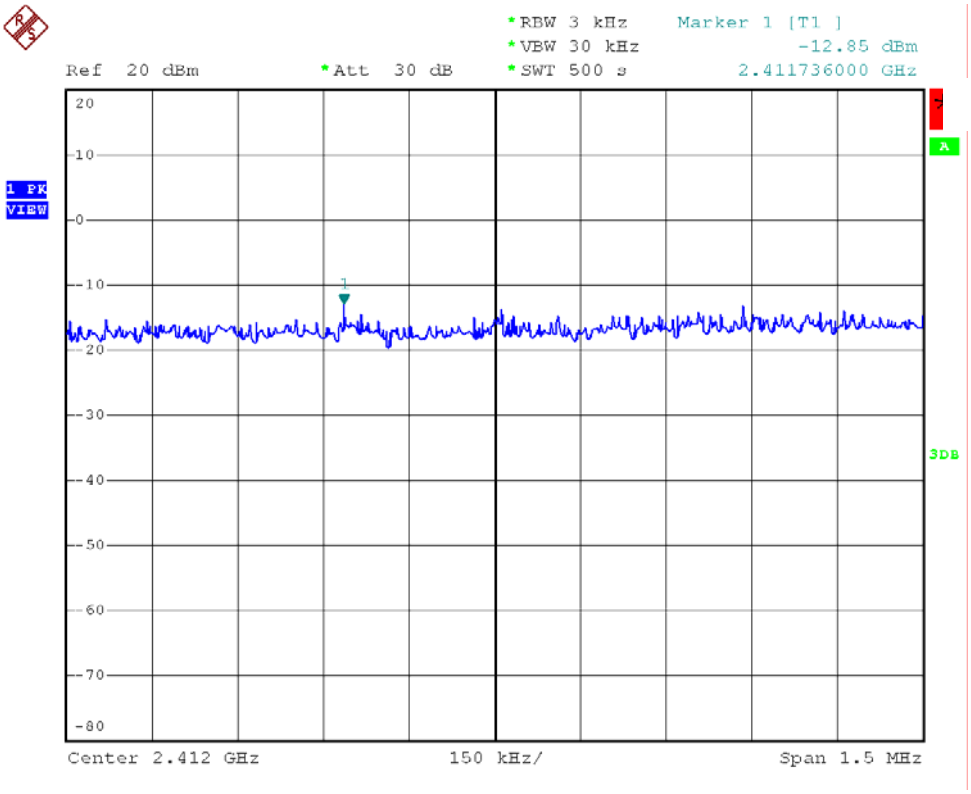
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	R&S	FSP40	100047	2011/05/05	2012/05/04

9.5 Test Result and Data

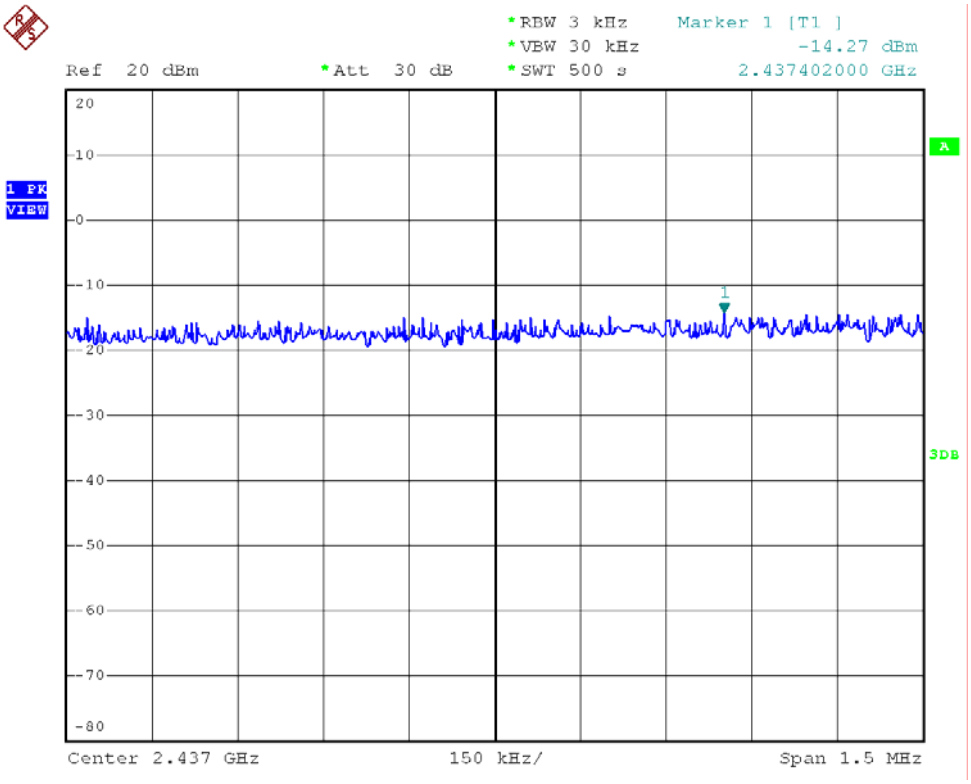
Test Date : Jul. 05, 2011 Temperature : 26℃
Atmospheric pressure : 1020 hPa Humidity : 65%

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)
IEEE 802.11b (11Mbps)	01	2412	-12.85
	06	2437	-14.27
	11	2462	-13.34
IEEE 802.11g (54Mbps)	01	2412	-15.73
	06	2437	-16.19
	11	2462	-16.11

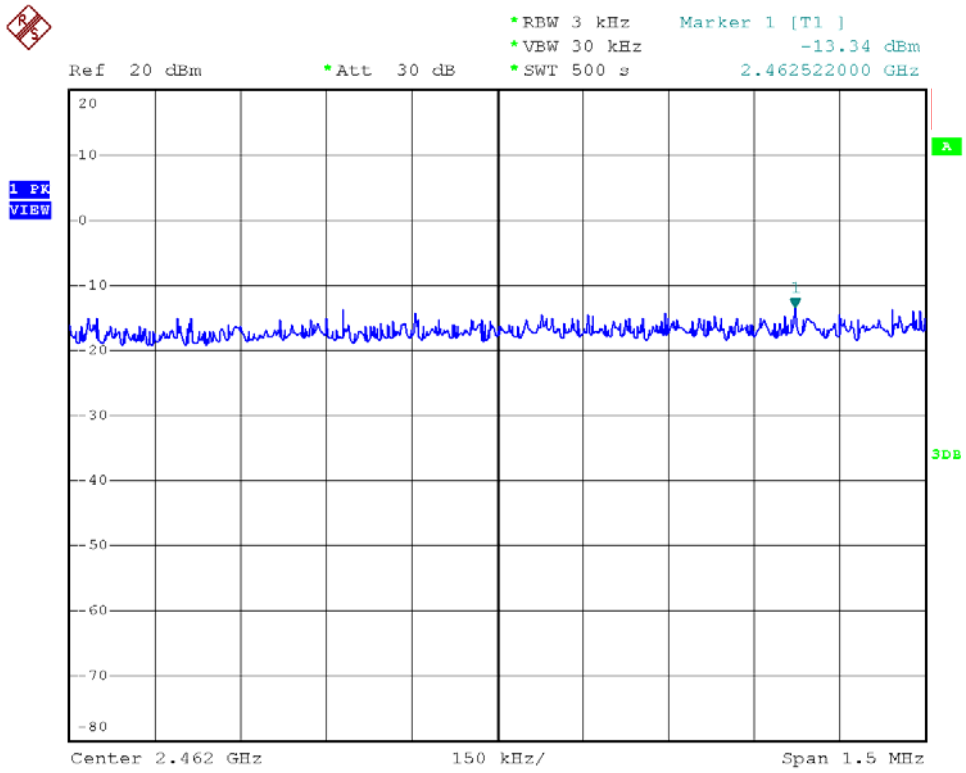
Modulation Standard: 802.11b (11Mbps)
Channel: 01



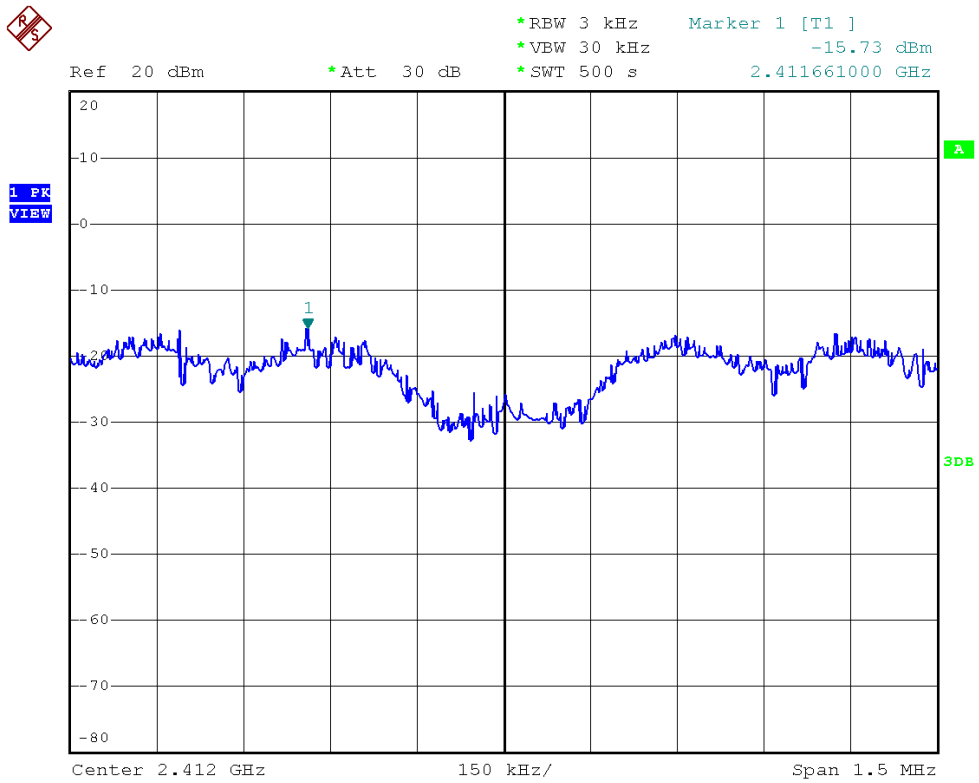
Modulation Standard: 802.11b (11Mbps)
Channel: 06



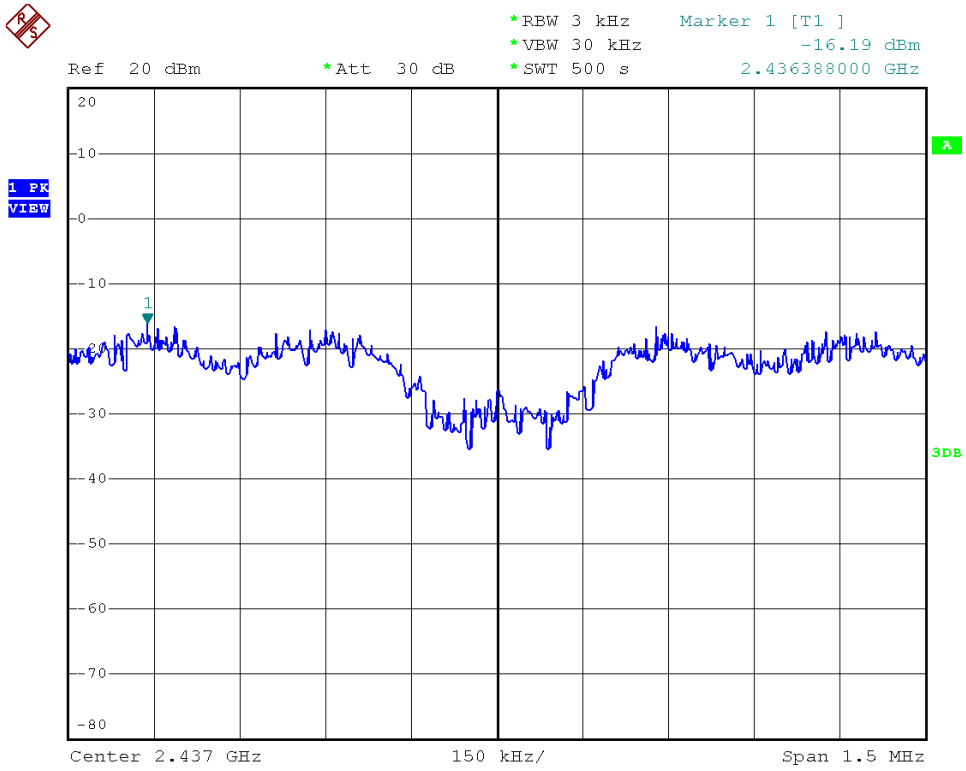
Modulation Standard: 802.11b (11Mbps)
Channel: 11



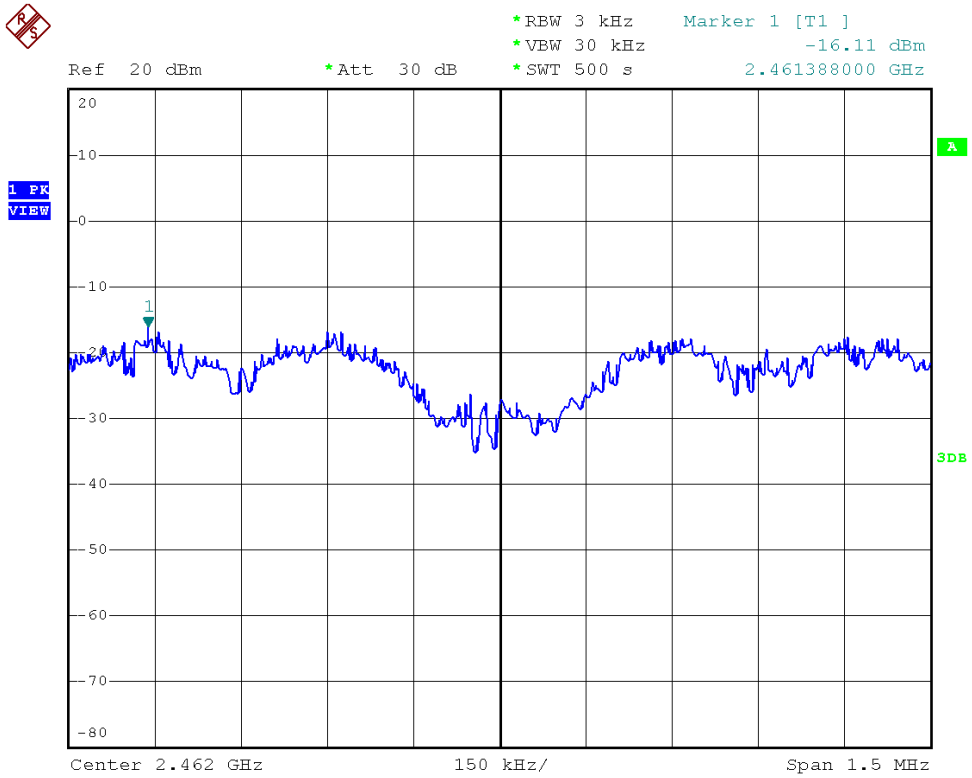
Modulation Standard: 802.11g (54Mbps)
Channel: 01



Modulation Standard: 802.11g (54Mbps)
Channel: 06



Modulation Standard: 802.11g (54Mbps)
Channel: 11



10. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

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

10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.