FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	:	NETGEAR, INC.
Address	:	4500 GREAT AMERICA PARKWAY, SANTA CLARA, CA 95054 U.S.A.
Equipment	:	RangeMax Dual Band Wireless-N USB Adapter
Model No.	:	WNDA3100
FCC ID	:	PY307300073
Trade Name	:	NETGEAR

Laboratory Accreditation

TAF
Testing Laboratory
1332

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of ***E**xclusive **C**ertification **C**orp.* 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

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Equipment	RangeMax Dual Band Wireless-N USB Adapter
Model No.	WNDA3100
FCC ID	PY307300073

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 (2006).**

The test was carried out on Dec. 27, 2007 at ***E**xclusive **C**ertification **C**orp.*

Signature

Anson Chou / 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
15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)(3)	. 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

Antenna	2 integrated internal wireless antennas
Standards	802.11n draft 2.0, 802.11a, 802.11g, or 802.11b
Radio Data Rate	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54, 108, 140, 246, and 300 Mbps(Auto Rate Sensing)
Frequency	2.4 GHz to 2.5 GHz CCK and OFDM Modulation)
Power	5V Bus powered
Bus interface	USB 2.0
Provided drivers	Microsoft Vista, Windows XP
Operating Environment	Operating temperature: 0 to 40° C
Encryption	40-bit (also called 64-bit) and 128-bit WEP data encryption, and WPA-PSK

2.2 RF Specifications

Type of Modulation	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11a: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11n draft 2.0: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data Rate	802.11b (11, 5.5, 2, 1 Mbps) 802.11g (54, 48, 36, 24, 18, 12, 9, 6 Mbps) 802.11a (54, 48, 36, 24, 18, 12, 9, 6 Mbps) 802.11n draft 2.0 (300, 246, 140, 108, 54, 48, 36, 24, 18, 12, 9, 6 Mbps)
Number of Channels	802.11b/g/n draft 2.0, 20MHz: USA, Canada and Taiwan: 1 ~ 11 CH (11channels) 802.11n draft 2.0, 40MHz: USA, Canada and Taiwan: 3 ~ 9 CH (7channels) 802.11a/n draft 2.0, 20MHz: USA, Canada: 36 ~ 48 CH (4 channels), 149 ~ 165 CH (5 channels) 802.11n draft 2.0, 40MHz: USA, Canada: 38 ~ 46 CH (3 channels) 151 ~ 159 CH (3 channels)
Frequency Band	2412 ~ 2462 MHz, 5150 ~ 5250 MHz, 5725 ~ 5825 MHz
Output Power	802.11b: 22.4 dBm, 802.11g: 21.4 dBm, 802.11n draft 2.0(2.4GHz): 21.4 dBm, 802.11a: 21.9 dBm, 802.11n draft 2.0(5GHz): 21.9 dBm
Antenna Type	Printing Antenna
Antenna Gain	Antenna 1: 2.4 ~ 2.5GHz Band: 2.83 dBi, 5GHz Band: 4.25 dBi. Antenna 2: 2.4 ~ 2.5GHz Band: 3.73 dBi. 5GHz Band: 4.99 dBi.

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 IBM PC, Monitor, PS2 Keyboard, USB Mouse, Modem, Printer and EUT for EMI test. The remote workstation means TOSHIBA Notebook.

c. An executive program, EMITEST.EXE under WIN XP, which generates a complete line of continuously repeating “H" pattern was used as the test software.

The program was executed as follows:

1. Turn on the power of all equipment.
2. The PC reads the test program from the hard disk drive and runs it.
3. The PC sends "H" messages to the monitor, and the monitor displays "H" patterns on the screen.
4. The PC sends "H" messages to the internal Hard Disk, and the Hard Disk reads and writes the message.
5. The PC sends "H" messages to the modem.
6. The PC sends “H” messages to the printer.
7. Repeat the steps from 2 to 6.

d. An executive program, art.exe under WIN XP, which generates a continuous signal by the following frequency to test.

- 802.11b
  CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
- 802.11g
  CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
- 802.11n draft 2.0, 20MHz
  CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
- 802.11n draft 2.0, 40MHz
  CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
- 802.11a
  CH149: 5745MHz, CH157: 5785MHz, CH165: 5825MHz
- 802.11n draft 2.0, 20MHz
  CH149: 5745MHz, CH157: 5785MHz, CH165: 5825MHz
- 802.11n draft 2.0, 40MHz
  CH151: 5755MHz, CH155: 5775MHz, CH159: 5795MHz

e. For Radiated emission, the following test mode included two kinds of test:

- Test Mode 1: Without USB cable.
- Test Mode 2: With USB cable.

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA Shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 Shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB Shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 Shielding 1.35 m
Printer	hp	Desk Jet 400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT Shielding 1.6 m

Use Cable:

Cable	Description
USB*1	Shielding, 1.6m

2.5 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n draft 2.0, 20MHz (2412 ~ 2462MHz)

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 draft 2.0, 40MHz (2412 ~ 2462MHz)

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

802.11a, 802.11n draft 2.0, 20MHz (5150 ~ 5250MHz, 5725 ~ 5825MHz)

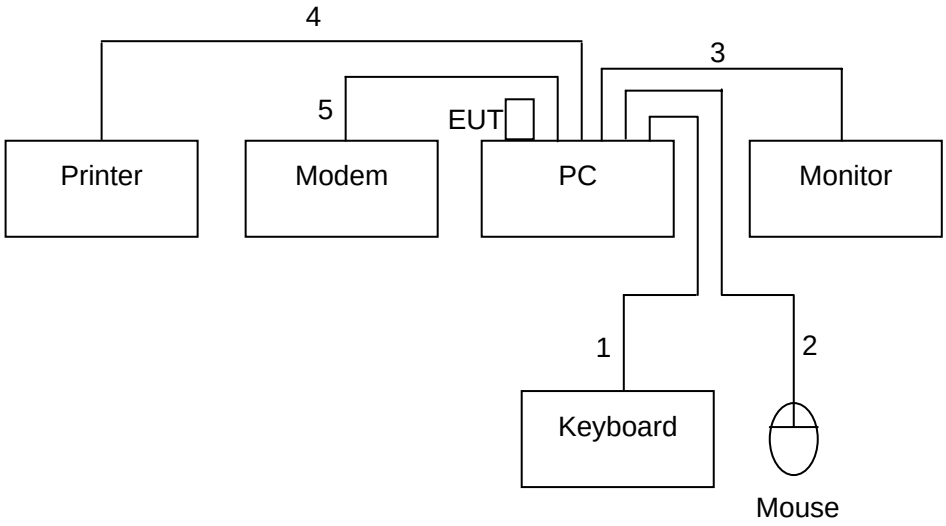
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
---	---	165	5825

802.11n draft 2.0, 40MHz (5150 ~ 5250MHz, 5725 ~ 5825MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	151	5755
42	5210	155	5775
46	5230	159	5795

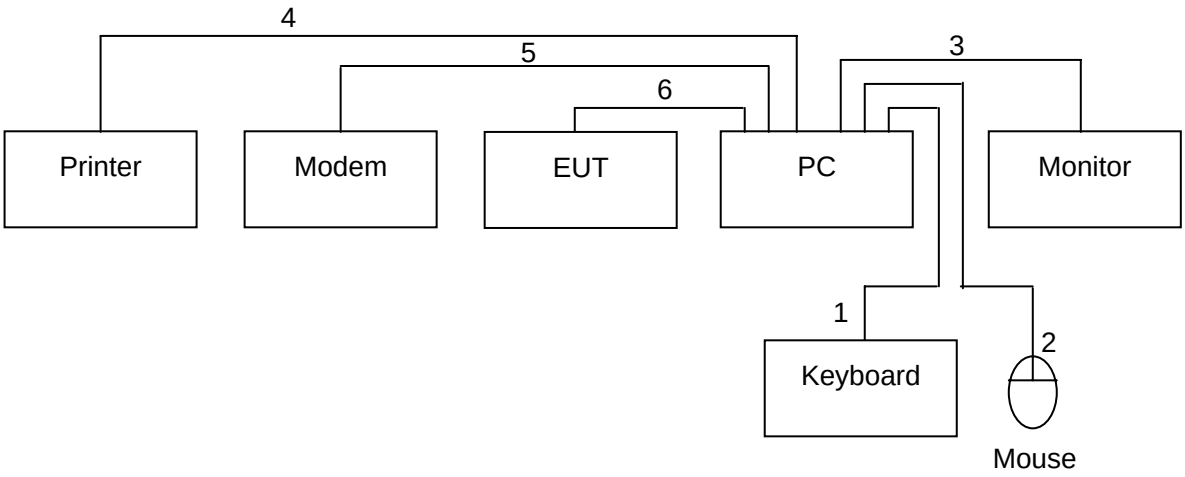
2.6 Connection Diagram of Test System

Test Mode 1:



1. The PS2 cable is connected from PC to the Keyboard.
2. The USB cable is connected from PC to the Mouse.
3. The VGA cable is connected from PC to the Monitor.
4. The PRINT cable is connected from PC to the Printer.
5. The RS232 cable is connected from PC to the Modem.

Test Mode 2:



1. The PS2 cable is connected from PC to the Keyboard.
2. The USB cable is connected from PC to the Mouse.
3. The VGA cable is connected from PC to the Monitor.
4. The PRINT cable is connected from PC to the Printer.
5. The RS232 cable is connected from PC to the Modem.
6. The USB cable is connected from PC to the EUT.

2.7 General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	632249
IC Registration Number :	6597A-1
VCCI Registration Number :	T-182 for Telecommunication Test C-2188 for Conducted emission test R-1902 for Radiated emission test
Test Voltage:	AC 120V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.8 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

Antenna 1:

Antenna type: Printing Antenna

2.4 ~ 2.5GHz Band: 2.83 dBi,

5GHz Band: 4.25 dBi.

Antenna 2:

Antenna type: Printing Antenna

2.4 ~ 2.5GHz Band: 3.73 dBi.

5GHz Band: 4.99 dBi.

4. Test of Conducted Emission (For 802.11b/g device)

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.

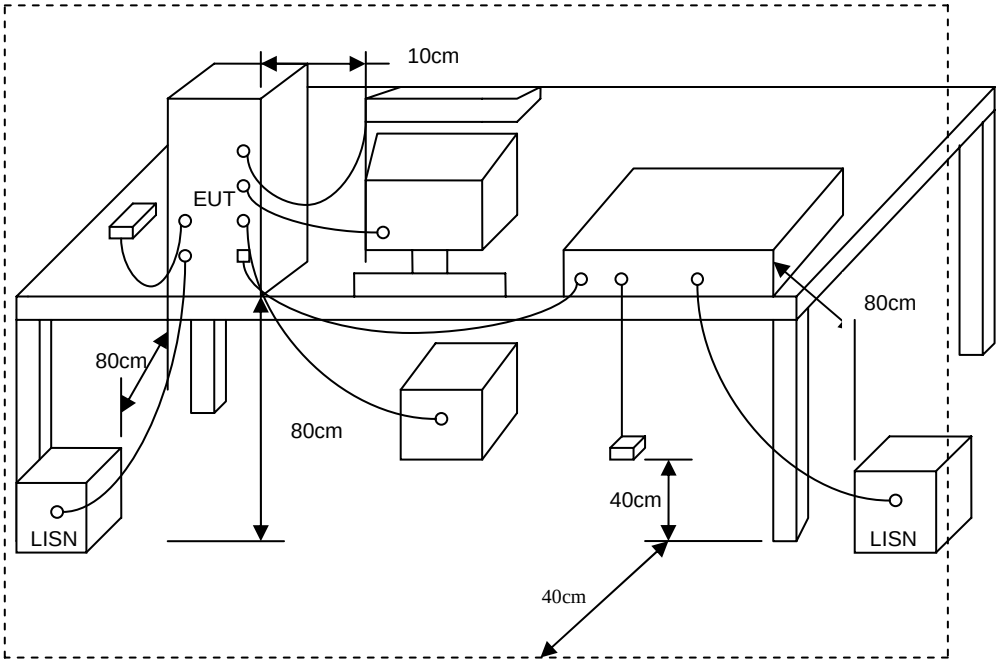
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*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

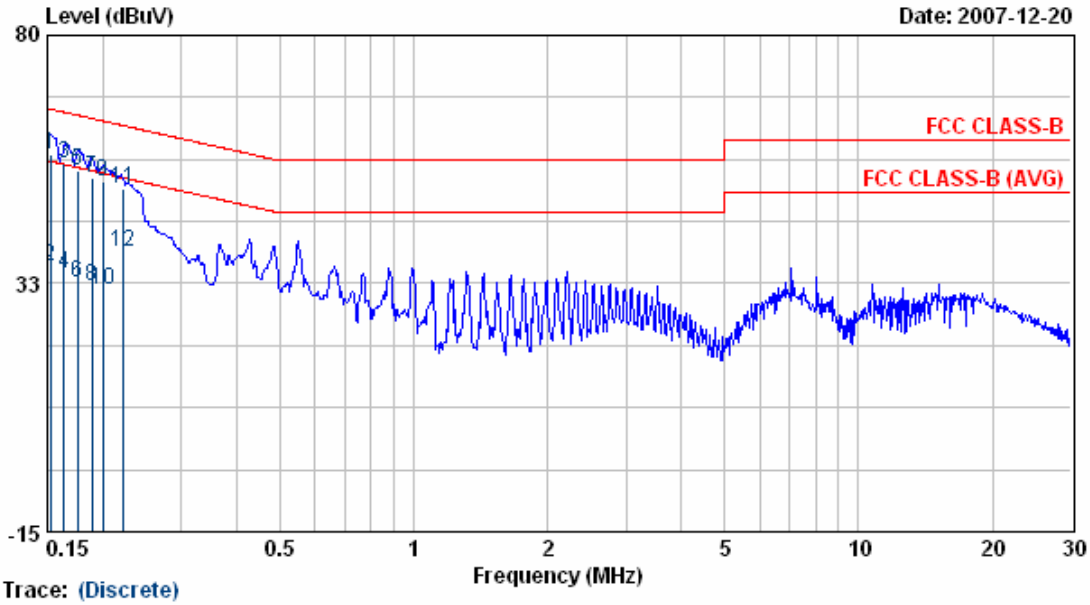


4.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Receiver	R&S	ESCI	100443	2007/09/27	2008/09/26
LISN	NNB-2/16Z	MESS TEC	02/10191	2007/05/14	2008/05/13
LISN	NNB-2/16Z	ROLF HEINE	03/10058	2007/04/19	2008/04/18

4.5 Test Result and Data

Power	:	DC 5V form PC	Pol/Phase	:	LINE
Test Mode 1	:	802.11g CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

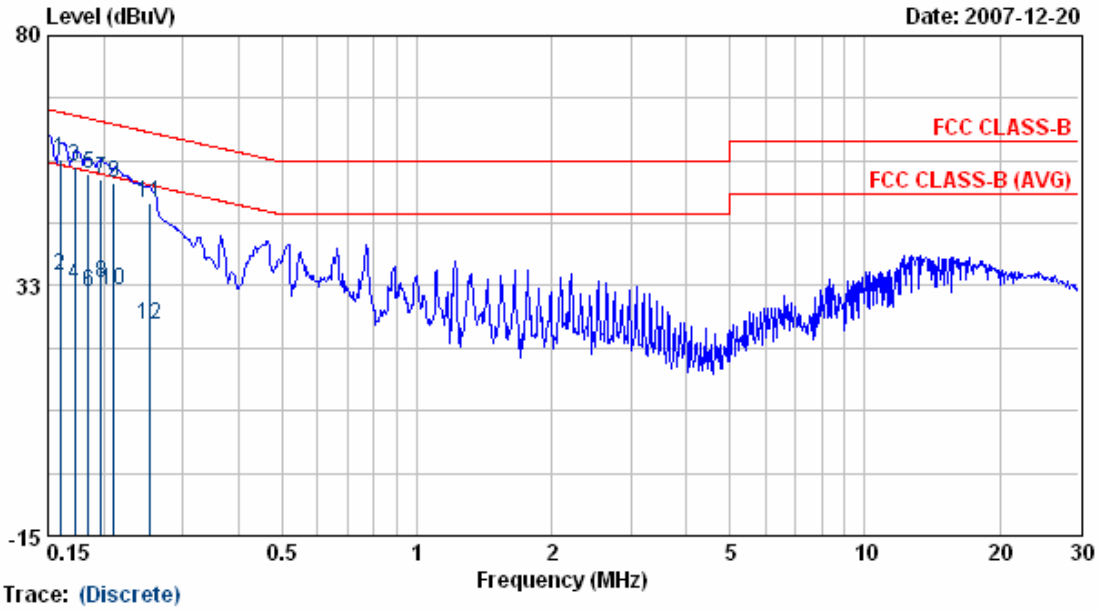


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	57.24	0.10	57.34	65.85	-8.51	QP
2	0.15	35.84	0.10	35.94	55.85	-19.91	AVERAGE
3	0.16	55.51	0.10	55.61	65.29	-9.68	QP
4	0.16	34.21	0.10	34.31	55.29	-20.99	AVERAGE
5	0.18	53.97	0.10	54.07	64.69	-10.62	QP
6	0.18	32.66	0.10	32.77	54.69	-21.92	AVERAGE
7	0.19	52.74	0.10	52.84	64.08	-11.24	QP
8	0.19	32.04	0.10	32.14	54.08	-21.93	AVERAGE
9	0.20	51.84	0.10	51.95	63.61	-11.66	QP
10	0.20	31.21	0.10	31.31	53.61	-22.30	AVERAGE
11	0.22	50.69	0.11	50.79	62.77	-11.98	QP
12	0.22	38.29	0.11	38.40	52.77	-14.37	AVERAGE

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

Power	:	DC 5V form PC	Pol/Phase	:	NEUTRAL
Test Mode 1	:	802.11g CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

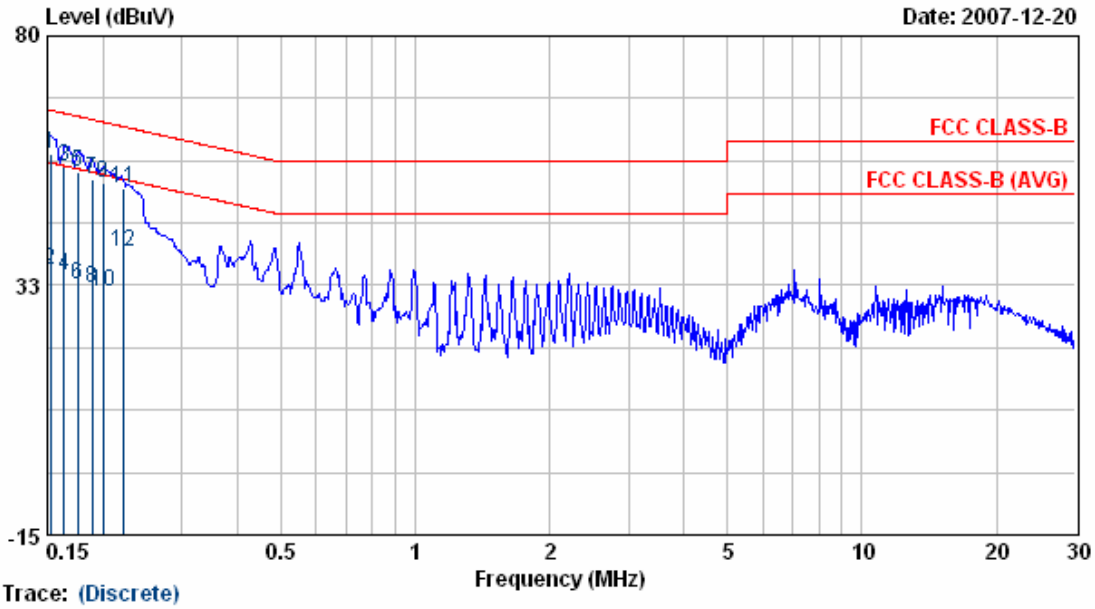


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	56.48	0.09	56.57	65.50	-8.93	QP
2	0.16	34.31	0.09	34.40	55.50	-21.10	AVERAGE
3	0.17	54.89	0.09	54.98	64.87	-9.89	QP
4	0.17	32.67	0.09	32.76	54.87	-22.11	AVERAGE
5	0.18	53.71	0.09	53.80	64.27	-10.47	QP
6	0.18	31.27	0.09	31.36	54.27	-22.90	AVERAGE
7	0.20	52.77	0.09	52.86	63.72	-10.86	QP
8	0.20	32.98	0.09	33.07	53.72	-20.64	AVERAGE
9	0.21	52.00	0.09	52.09	63.18	-11.09	QP
10	0.21	31.40	0.09	31.49	53.18	-21.69	AVERAGE
11	0.25	48.10	0.10	48.20	61.66	-13.46	QP
12	0.25	24.85	0.10	24.95	51.66	-26.71	AVERAGE

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

Power	:	DC 5V form PC	Pol/Phase	:	LINE
Test Mode 1	:	802.11n draft 2.0, 20MHz, CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



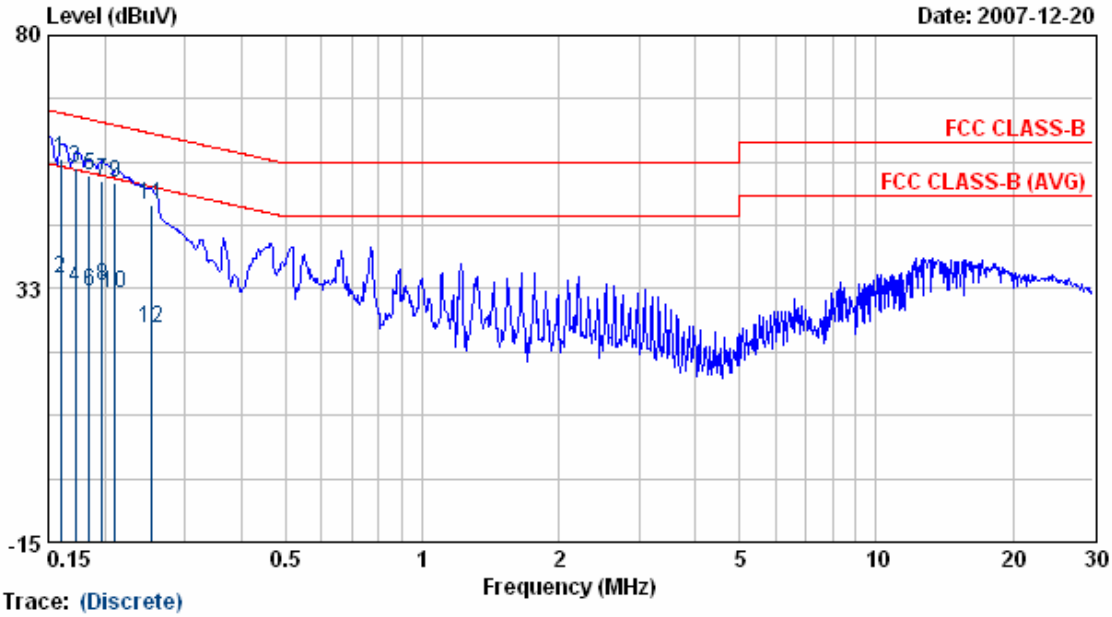
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	57.40	0.10	57.50	65.85	-8.35	QP
2	0.15	35.42	0.10	35.52	55.85	-20.33	AVERAGE
3	0.16	55.11	0.10	55.21	65.29	-10.08	QP
4	0.16	34.25	0.10	34.35	55.29	-20.94	AVERAGE
5	0.18	53.96	0.10	54.06	64.69	-10.63	QP
6	0.18	32.64	0.10	32.74	54.69	-21.95	AVERAGE
7	0.19	52.76	0.10	52.86	64.08	-11.21	QP
8	0.19	32.02	0.10	32.12	54.08	-21.96	AVERAGE
9	0.20	51.82	0.10	51.93	63.61	-11.68	QP
10	0.20	31.29	0.10	31.40	53.61	-22.21	AVERAGE
11	0.22	50.86	0.11	50.96	62.77	-11.81	QP
12	0.22	38.93	0.11	39.04	52.77	-13.73	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V form PC	Pol/Phase	:	NEUTRAL
Test Mode 1	:	802.11n draft 2.0, 20MHz, CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



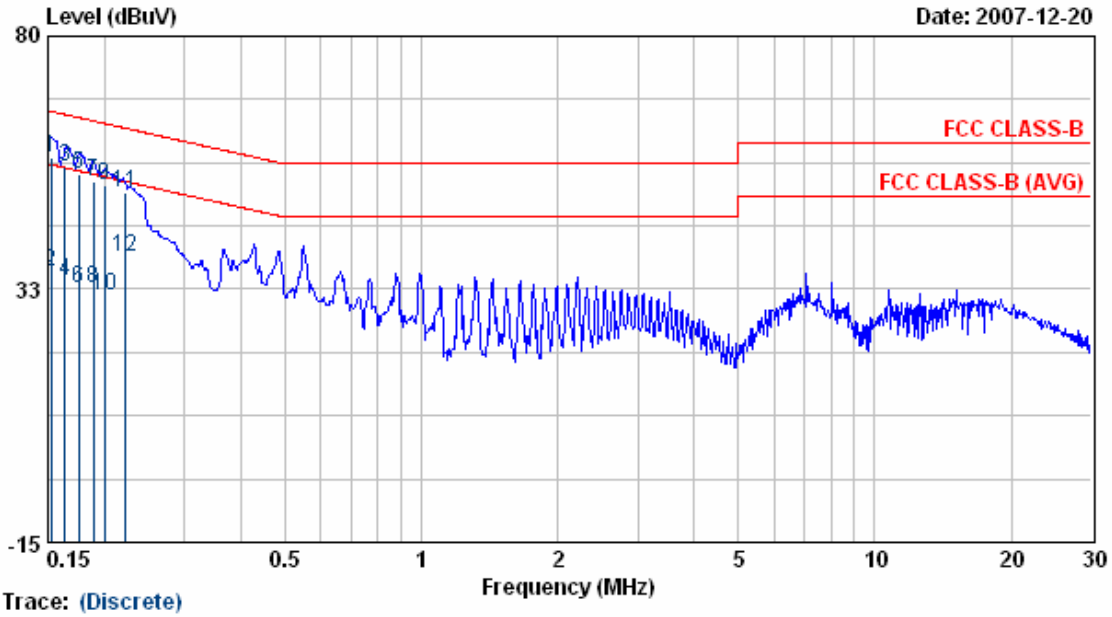
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	56.78	0.09	56.87	65.50	-8.62	QP
2	0.16	34.38	0.09	34.47	55.50	-21.02	AVERAGE
3	0.17	54.87	0.09	54.96	64.87	-9.90	QP
4	0.17	32.73	0.09	32.82	54.87	-22.05	AVERAGE
5	0.18	53.72	0.09	53.81	64.27	-10.46	QP
6	0.18	31.75	0.09	31.84	54.27	-22.43	AVERAGE
7	0.20	52.66	0.09	52.75	63.72	-10.96	QP
8	0.20	32.82	0.09	32.91	53.72	-20.81	AVERAGE
9	0.21	52.20	0.09	52.29	63.18	-10.89	QP
10	0.21	31.39	0.09	31.48	53.18	-21.70	AVERAGE
11	0.25	48.03	0.10	48.13	61.66	-13.53	QP
12	0.25	24.89	0.10	24.99	51.66	-26.67	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V form PC	Pol/Phase	:	LINE
Test Mode 1	:	802.11n draft 2.0, 40MHz, CH3	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



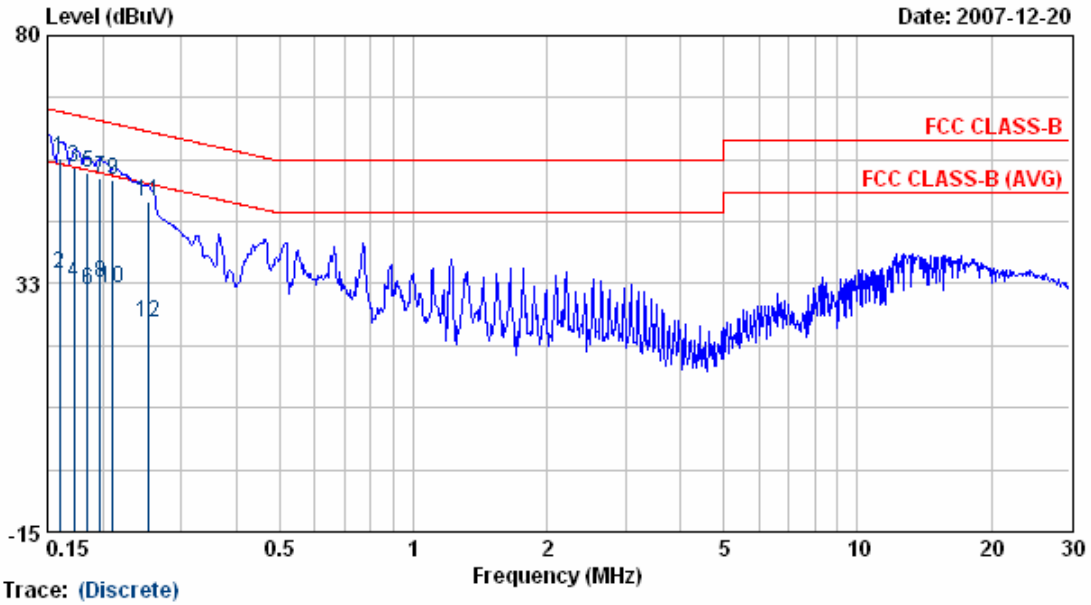
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	57.20	0.10	57.30	65.85	-8.55	QP
2	0.15	35.83	0.10	35.93	55.85	-19.92	AVERAGE
3	0.16	55.31	0.10	55.41	65.29	-9.88	QP
4	0.16	34.05	0.10	34.15	55.29	-21.14	AVERAGE
5	0.18	53.87	0.10	53.97	64.69	-10.72	QP
6	0.18	32.64	0.10	32.74	54.69	-21.95	AVERAGE
7	0.19	52.76	0.10	52.86	64.08	-11.21	QP
8	0.19	32.42	0.10	32.52	54.08	-21.56	AVERAGE
9	0.20	51.83	0.10	51.94	63.61	-11.67	QP
10	0.20	31.27	0.10	31.37	53.61	-22.24	AVERAGE
11	0.22	50.67	0.11	50.77	62.77	-12.00	QP
12	0.22	38.49	0.11	38.60	52.77	-14.17	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V form PC	Pol/Phase	:	NEUTRAL
Test Mode 1	:	802.11n draft 2.0, 40MHz, CH3	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



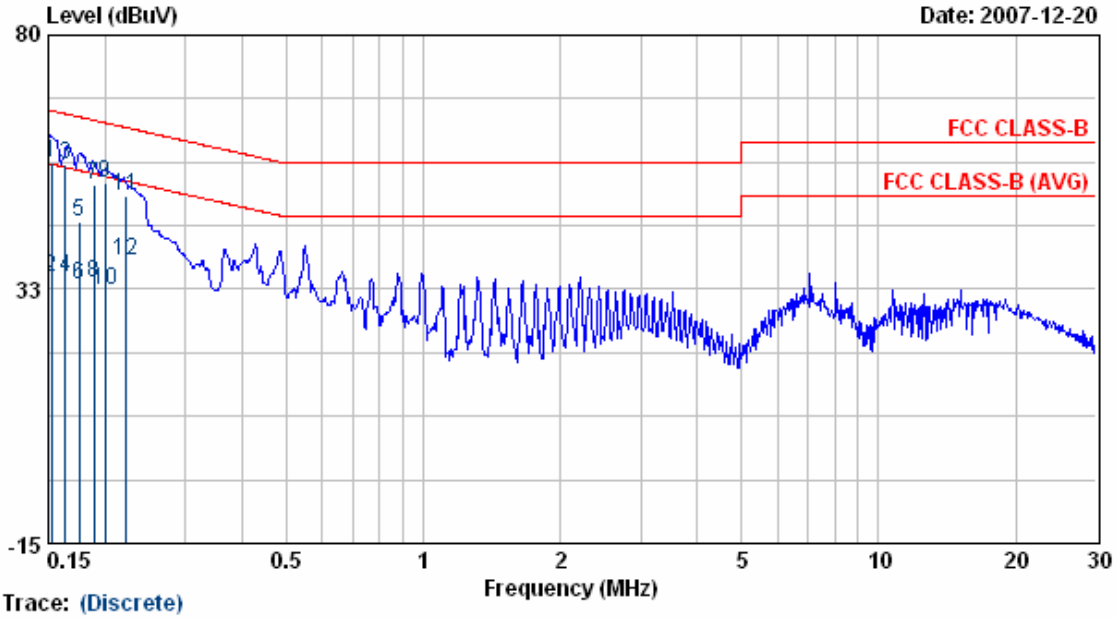
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	56.44	0.09	56.53	65.50	-8.97	QP
2	0.16	34.41	0.09	34.50	55.50	-21.00	AVERAGE
3	0.17	54.67	0.09	54.76	64.87	-10.10	QP
4	0.17	32.57	0.09	32.66	54.87	-22.21	AVERAGE
5	0.18	53.72	0.09	53.81	64.27	-10.46	QP
6	0.18	31.26	0.09	31.35	54.27	-22.91	AVERAGE
7	0.20	52.76	0.09	52.85	63.72	-10.86	QP
8	0.20	32.52	0.09	32.61	53.72	-21.11	AVERAGE
9	0.21	52.21	0.09	52.30	63.18	-10.88	QP
10	0.21	31.39	0.09	31.48	53.18	-21.70	AVERAGE
11	0.25	48.13	0.10	48.23	61.66	-13.43	QP
12	0.25	24.89	0.10	24.99	51.66	-26.67	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V form PC	Pol/Phase	:	LINE
Test Mode 2	:	802.11g CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

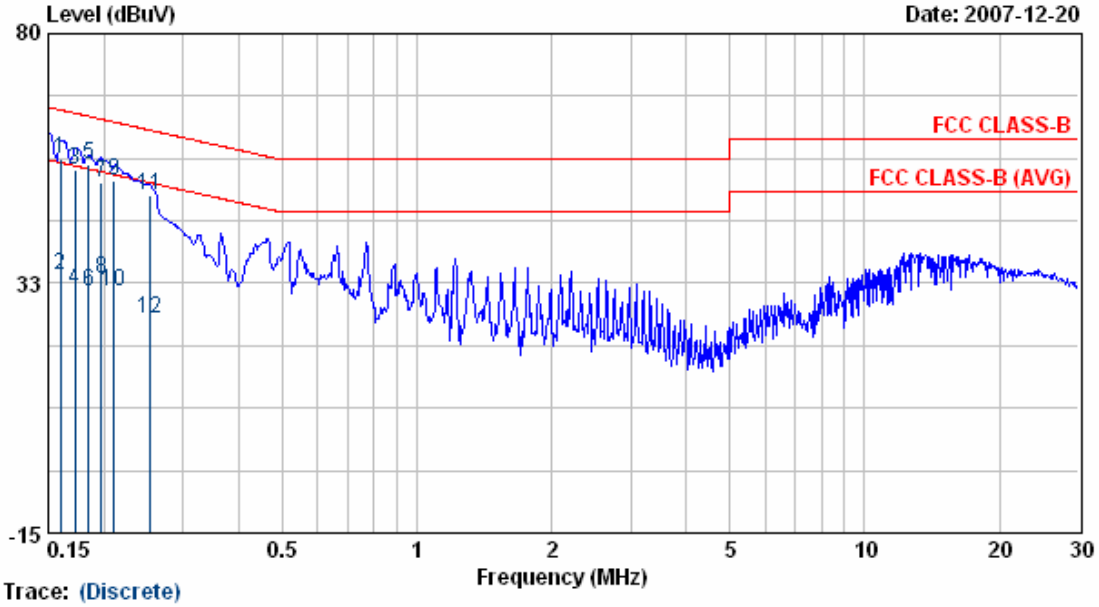


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.12	0.10	56.22	65.85	-9.63	QP
2	0.15	34.51	0.10	34.61	55.85	-21.24	AVERAGE
3	0.16	55.66	0.10	55.76	65.29	-9.53	QP
4	0.16	34.50	0.10	34.60	55.29	-20.69	AVERAGE
5	0.18	45.12	0.10	45.22	64.69	-19.47	QP
6	0.18	33.20	0.10	33.30	54.69	-21.39	AVERAGE
7	0.19	51.99	0.10	52.09	64.08	-11.99	QP
8	0.19	33.61	0.10	33.72	54.08	-20.36	AVERAGE
9	0.20	52.10	0.10	52.20	63.61	-11.41	QP
10	0.20	32.11	0.10	32.21	53.61	-21.40	AVERAGE
11	0.22	49.79	0.11	49.90	62.77	-12.87	QP
12	0.22	37.82	0.11	37.93	52.77	-14.84	AVERAGE

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

Power	:	DC 5V form PC	Pol/Phase	:	NEUTRAL
Test Mode 2	:	802.11g CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

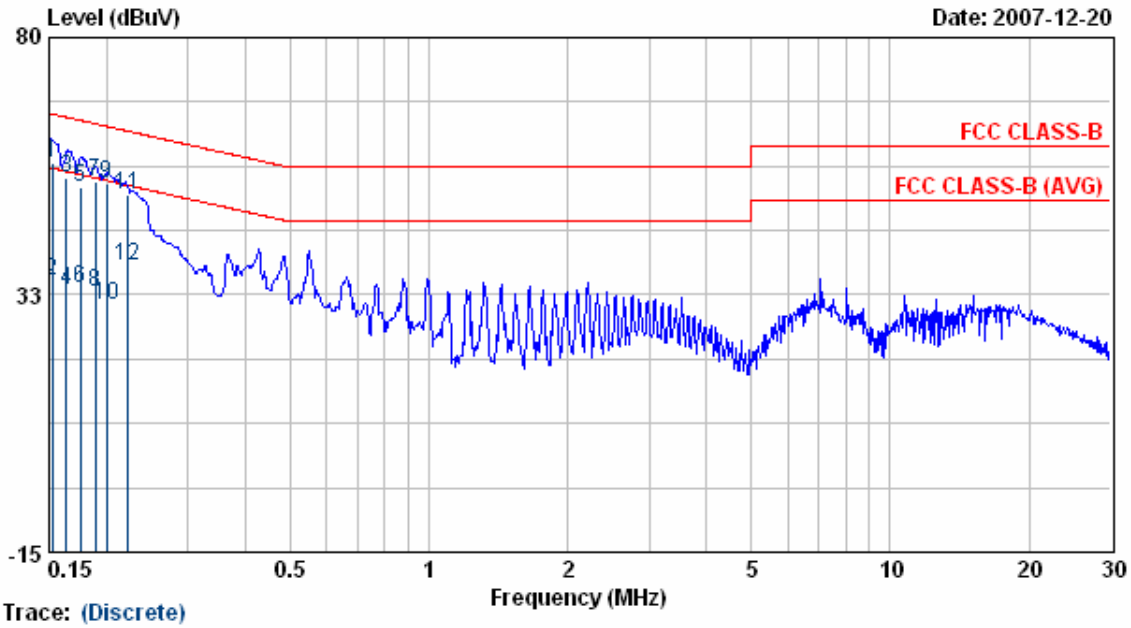


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	55.95	0.09	56.04	65.50	-9.45	QP
2	0.16	33.94	0.09	34.03	55.50	-21.46	AVERAGE
3	0.17	54.12	0.09	54.21	64.87	-10.66	QP
4	0.17	31.37	0.09	31.46	54.87	-23.41	AVERAGE
5	0.18	54.88	0.09	54.97	64.27	-9.29	QP
6	0.18	30.95	0.09	31.04	54.27	-23.22	AVERAGE
7	0.20	51.67	0.09	51.76	63.72	-11.95	QP
8	0.20	33.13	0.09	33.22	53.72	-20.50	AVERAGE
9	0.21	51.95	0.09	52.05	63.18	-11.13	QP
10	0.21	30.85	0.09	30.94	53.18	-22.24	AVERAGE
11	0.25	49.15	0.10	49.25	61.66	-12.41	QP
12	0.25	25.74	0.10	25.84	51.66	-25.82	AVERAGE

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

Power	:	DC 5V form PC	Pol/Phase	:	LINE
Test Mode 2	:	802.11n draft 2.0, 20MHz, CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



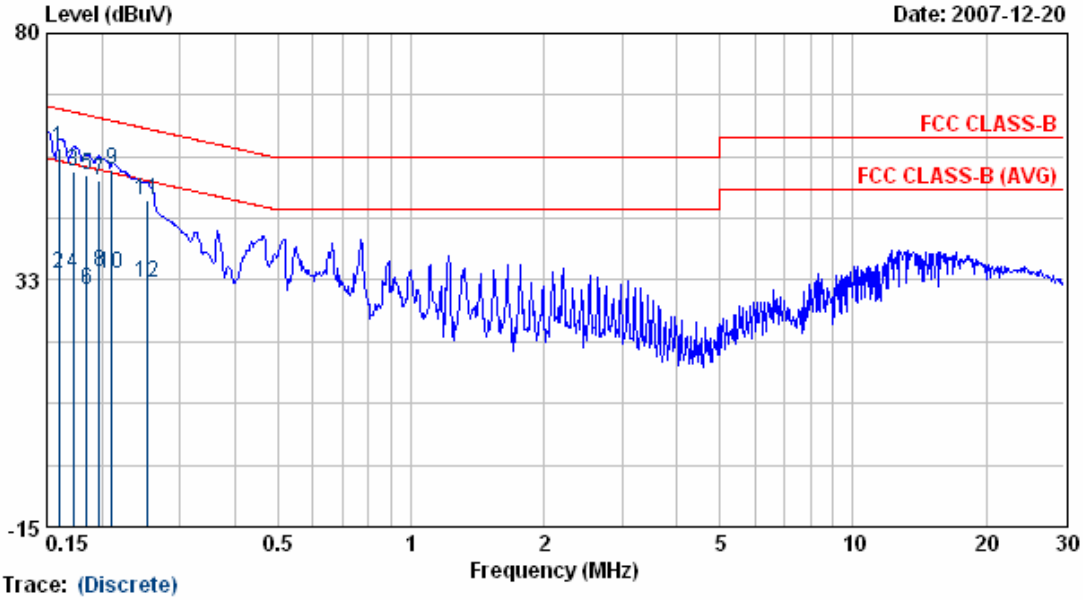
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.92	0.10	57.02	65.85	-8.83	QP
2	0.15	34.87	0.10	34.97	55.85	-20.88	AVERAGE
3	0.16	54.16	0.10	54.26	65.29	-11.04	QP
4	0.16	33.19	0.10	33.29	55.29	-22.01	AVERAGE
5	0.18	52.17	0.10	52.28	64.69	-12.41	QP
6	0.18	33.65	0.10	33.75	54.69	-20.94	AVERAGE
7	0.19	53.13	0.10	53.23	64.08	-10.85	QP
8	0.19	33.00	0.10	33.10	54.08	-20.97	AVERAGE
9	0.20	52.95	0.10	53.06	63.61	-10.55	QP
10	0.20	30.58	0.10	30.68	53.61	-22.93	AVERAGE
11	0.22	50.99	0.11	51.10	62.77	-11.67	QP
12	0.22	37.65	0.11	37.76	52.77	-15.01	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V form PC	Pol/Phase	:	NEUTRAL
Test Mode 2	:	802.11n draft 2.0, 20MHz, CH1	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



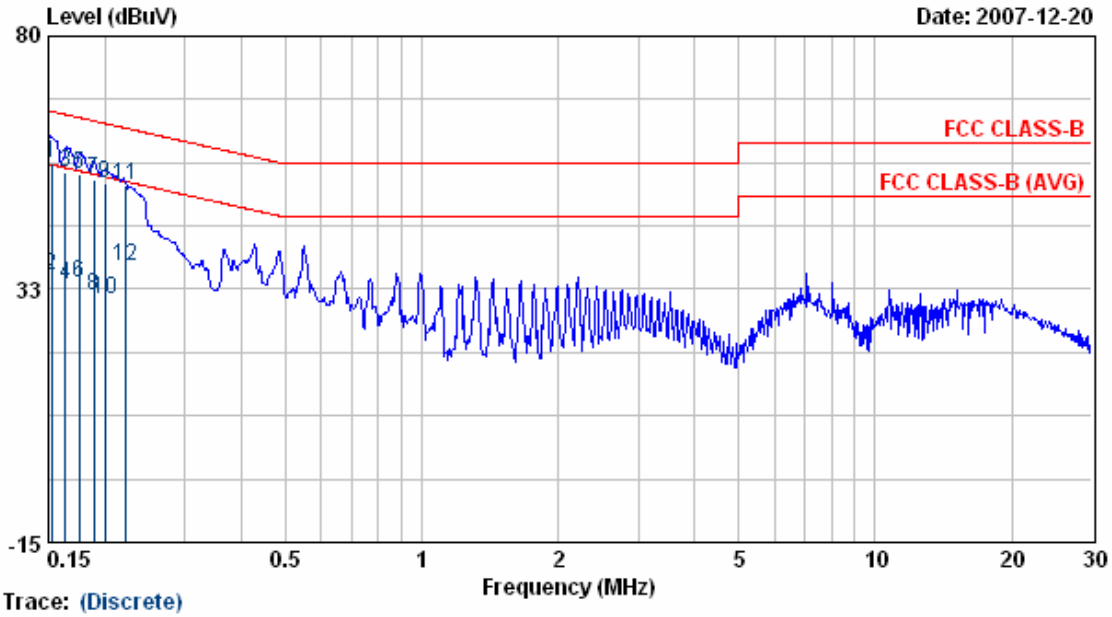
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	57.92	0.09	58.01	65.50	-7.48	QP
2	0.16	33.69	0.09	33.78	55.50	-21.71	AVERAGE
3	0.17	53.15	0.09	53.24	64.87	-11.62	QP
4	0.17	33.56	0.09	33.65	54.87	-21.22	AVERAGE
5	0.18	52.53	0.09	52.62	64.27	-11.65	QP
6	0.18	30.55	0.09	30.64	54.27	-23.63	AVERAGE
7	0.20	51.65	0.09	51.74	63.72	-11.98	QP
8	0.20	33.85	0.09	33.94	53.72	-19.78	AVERAGE
9	0.21	53.57	0.09	53.66	63.18	-9.52	QP
10	0.21	33.51	0.09	33.60	53.18	-19.57	AVERAGE
11	0.25	47.92	0.10	48.02	61.66	-13.64	QP
12	0.25	32.05	0.10	32.15	51.66	-19.51	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V form PC	Pol/Phase	:	LINE
Test Mode 2	:	802.11n draft 2.0, 40MHz, CH3	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



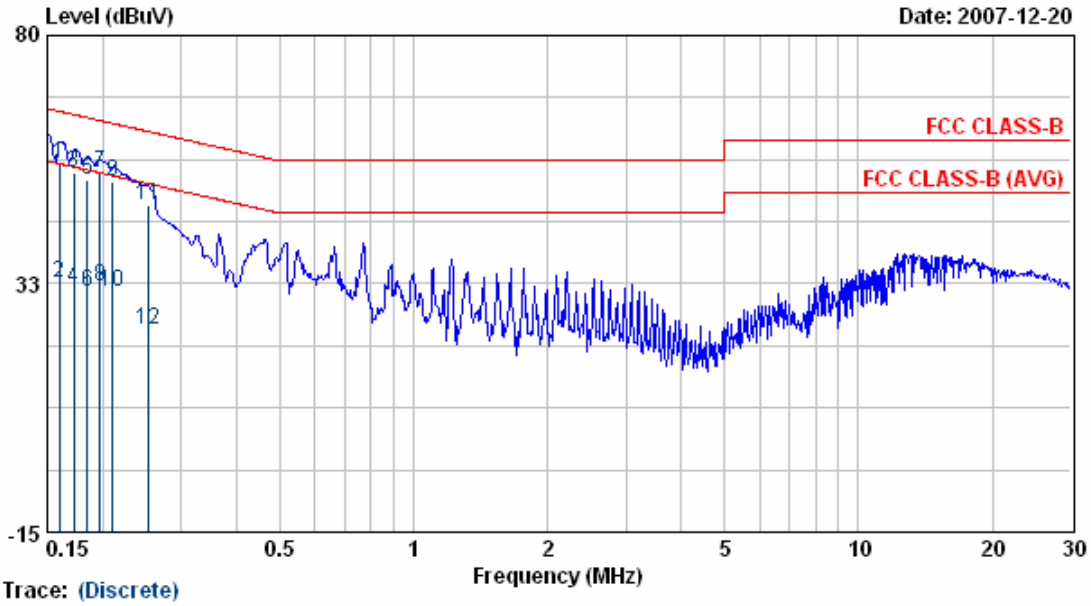
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.12	0.10	56.22	65.85	-9.63	QP
2	0.15	34.93	0.10	35.03	55.85	-20.83	AVERAGE
3	0.16	54.18	0.10	54.29	65.29	-11.01	QP
4	0.16	33.24	0.10	33.35	55.29	-21.95	AVERAGE
5	0.18	54.16	0.10	54.26	64.69	-10.43	QP
6	0.18	33.75	0.10	33.85	54.69	-20.84	AVERAGE
7	0.19	53.01	0.10	53.11	64.08	-10.96	QP
8	0.19	31.27	0.10	31.37	54.08	-22.71	AVERAGE
9	0.20	52.12	0.10	52.23	63.61	-11.39	QP
10	0.20	30.42	0.10	30.52	53.61	-23.09	AVERAGE
11	0.22	51.95	0.11	52.06	62.77	-10.71	QP
12	0.22	36.75	0.11	36.85	52.77	-15.92	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V form PC	Pol/Phase	:	NEUTRAL
Test Mode 2	:	802.11n draft 2.0, 40MHz, CH3	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	55.25	0.09	55.34	65.50	-10.15	QP
2	0.16	32.70	0.09	32.79	55.50	-22.71	AVERAGE
3	0.17	53.59	0.09	53.68	64.87	-11.19	QP
4	0.17	31.42	0.09	31.51	54.87	-23.36	AVERAGE
5	0.18	52.38	0.09	52.47	64.27	-11.80	QP
6	0.18	30.90	0.09	30.99	54.27	-23.28	AVERAGE
7	0.20	53.75	0.09	53.84	63.72	-9.87	QP
8	0.20	31.75	0.09	31.84	53.72	-21.87	AVERAGE
9	0.21	51.78	0.09	51.88	63.18	-11.30	QP
10	0.21	30.74	0.09	30.83	53.18	-22.34	AVERAGE
11	0.25	47.52	0.10	47.62	61.66	-14.04	QP
12	0.25	23.45	0.10	23.55	51.66	-28.11	AVERAGE

Remarks:

1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
4. The data is worse case.

Test engineer: Ben

5. Test of Radiated Emission (For 802.11b/g device)

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 (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

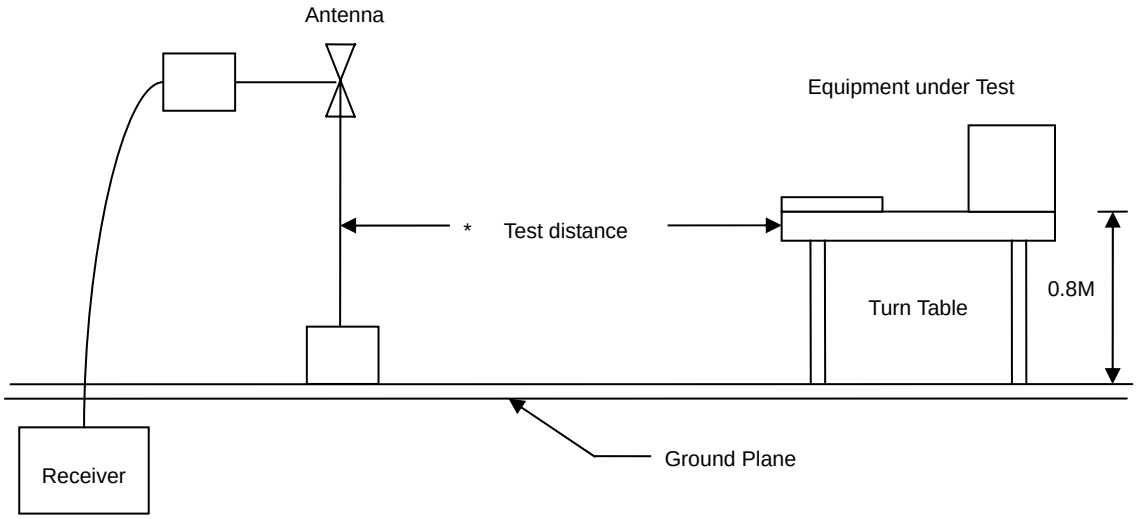
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

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.

5.3 Typical Test Setup

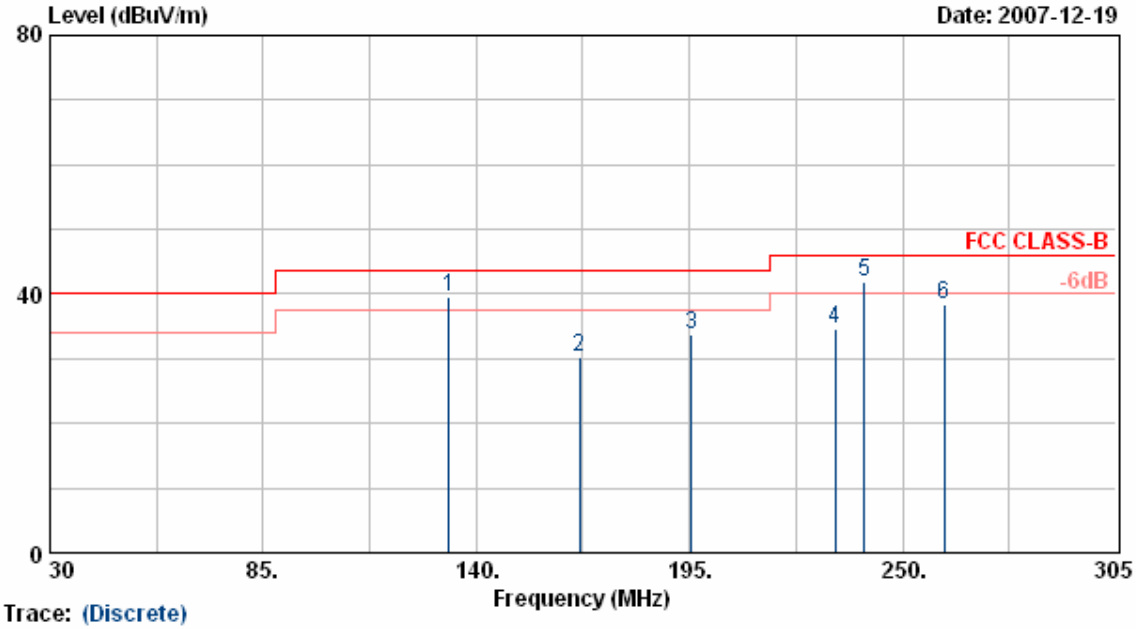


5.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	85460A	HP	3807A00454	2007/06/05	2008/06/04
Spectrum Analyzer	FSP40	R&S	10047	2007/01/23	2008/01/22
Horn Antenna	3115	EMCO	31589	2007/03/05	2008/03/04
Horn Antenna	3116	EMCO	31970	2007/03/06	2008/03/05
Bilog Antenna	CBL6112B	Schaffner	2840	2007/04/26	2008/04/25
Amplifier	8449B	Agilent	3008A01954	2007/01/12	2008/01/11
Amplifier	8447D	Agilent	2944A10531	2007/09/26	2008/09/25

5.5 Test Result and Data

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6Mbps



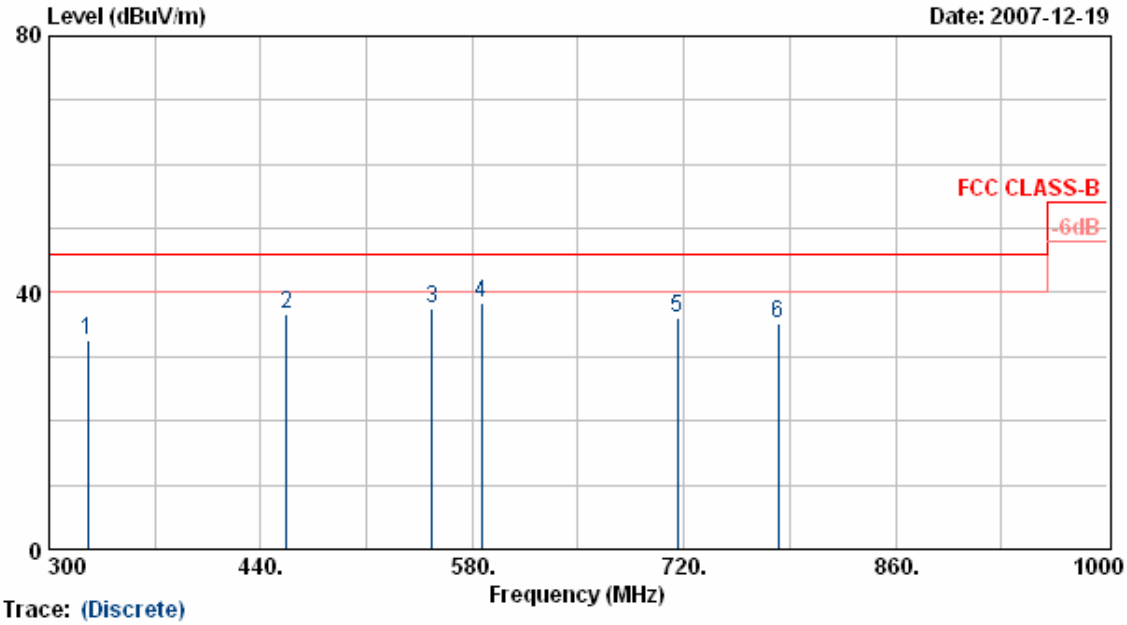
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.63	-12.97	39.66	43.50	-3.84	QP	100	44
2	166.68	44.80	-14.41	30.40	43.50	-13.10	Peak	100	147
3	195.55	46.65	-13.01	33.65	43.50	-9.85	Peak	100	145
4	232.68	46.98	-12.38	34.60	46.00	-11.40	Peak	100	167
5	240.10	54.54	-12.70	41.84	46.00	-4.16	QP	100	166
6	260.73	49.43	-11.17	38.26	46.00	-7.74	Peak	150	111

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6Mbps



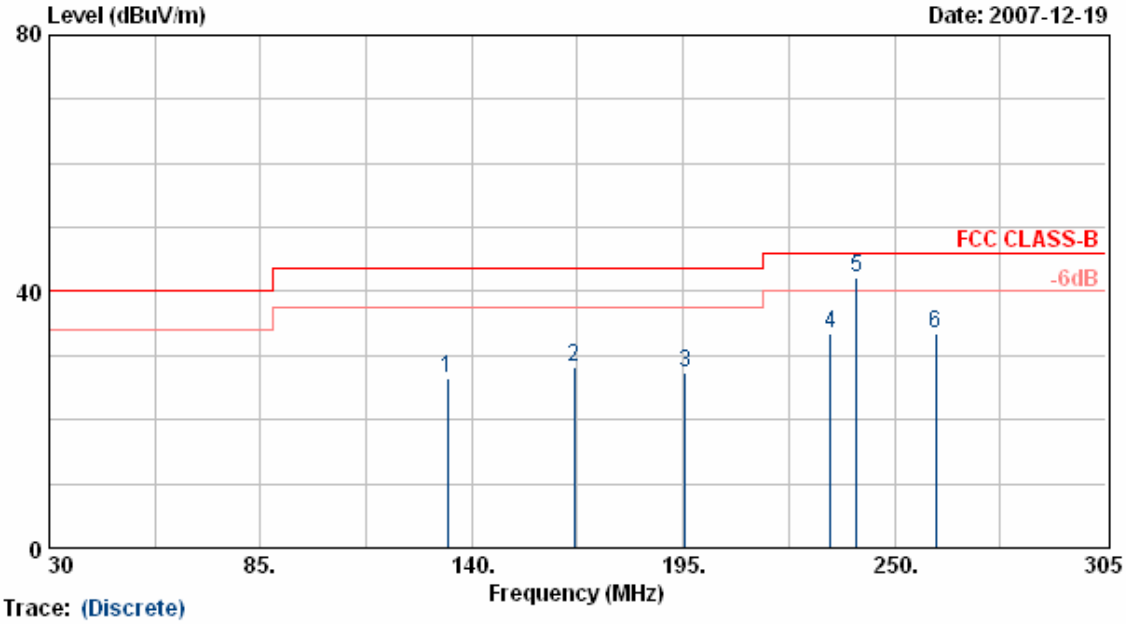
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.35	-11.71	32.63	46.00	-13.37	Peak	100	199
2	456.80	44.49	-7.80	36.69	46.00	-9.31	Peak	100	137
3	553.40	42.27	-4.85	37.41	46.00	-8.59	Peak	100	117
4	586.30	48.11	-9.73	38.38	46.00	-7.62	Peak	100	211
5	715.80	41.24	-5.03	36.21	46.00	-9.79	Peak	100	136
6	782.30	39.49	-4.31	35.18	46.00	-10.82	Peak	100	110

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



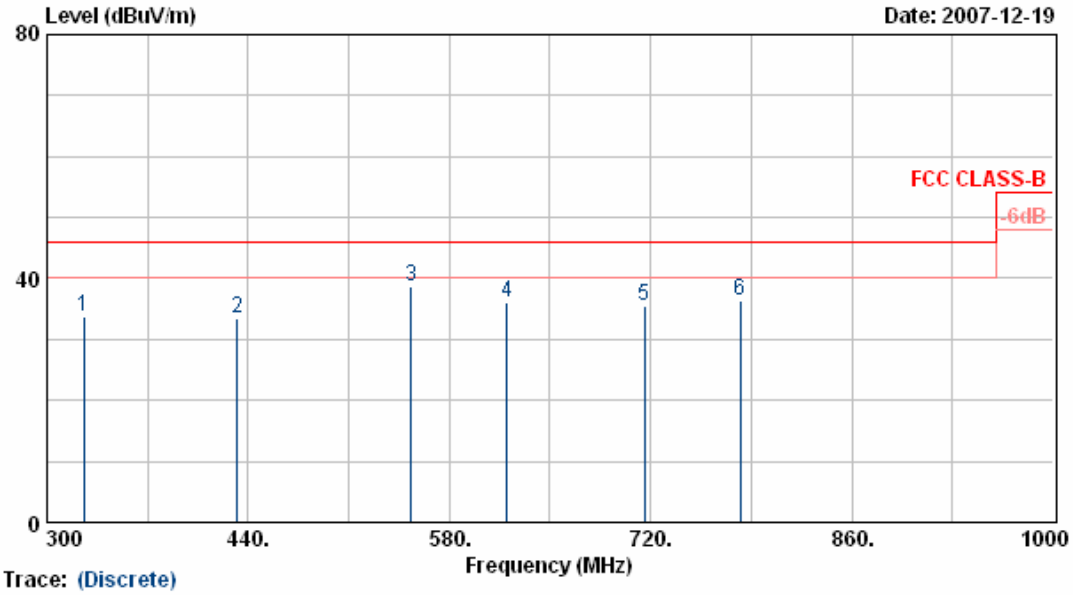
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.87	-19.48	26.39	43.50	-17.11	Peak	100	127
2	166.68	48.30	-20.20	28.10	43.50	-15.40	Peak	100	117
3	195.55	47.10	-19.74	27.36	43.50	-16.14	Peak	100	217
4	233.23	50.46	-16.87	33.60	46.00	-12.40	Peak	100	138
5	240.10	59.87	-17.80	42.07	46.00	-3.93	QP	100	167
6	260.73	47.90	-14.47	33.43	46.00	-12.57	Peak	100	197

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



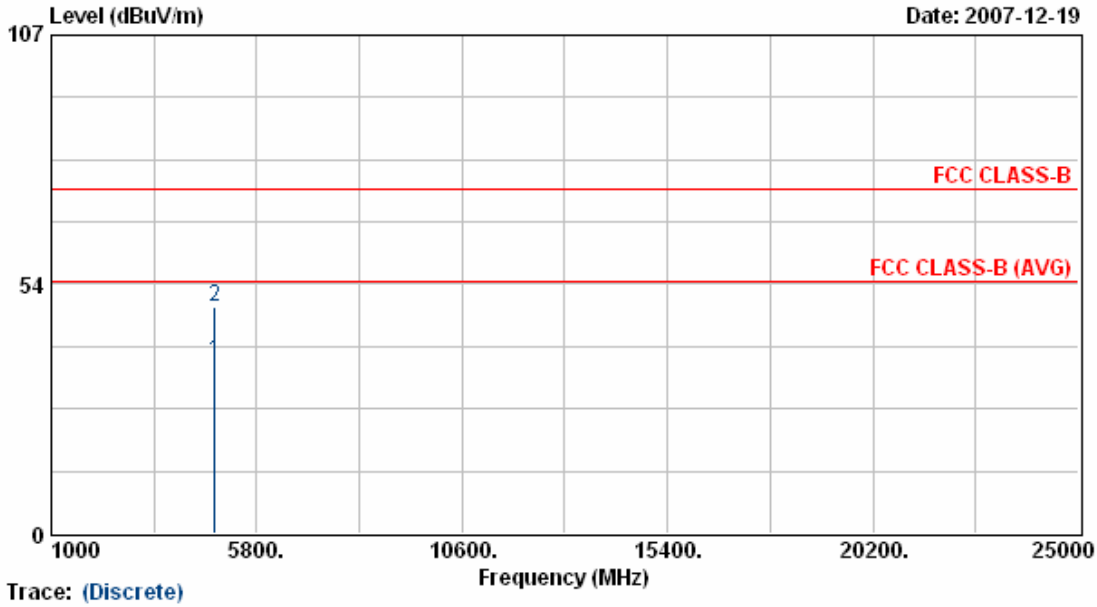
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.47	-13.72	33.75	46.00	-12.25	Peak	100	217
2	432.30	41.47	-7.88	33.59	46.00	-12.41	Peak	100	211
3	553.40	42.75	-4.03	38.72	46.00	-7.28	Peak	100	211
4	619.90	40.52	-4.41	36.10	46.00	-9.90	Peak	100	114
5	715.80	43.52	-8.16	35.36	46.00	-10.64	Peak	100	164
6	782.30	41.91	-5.58	36.32	46.00	-9.68	Peak	100	41

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



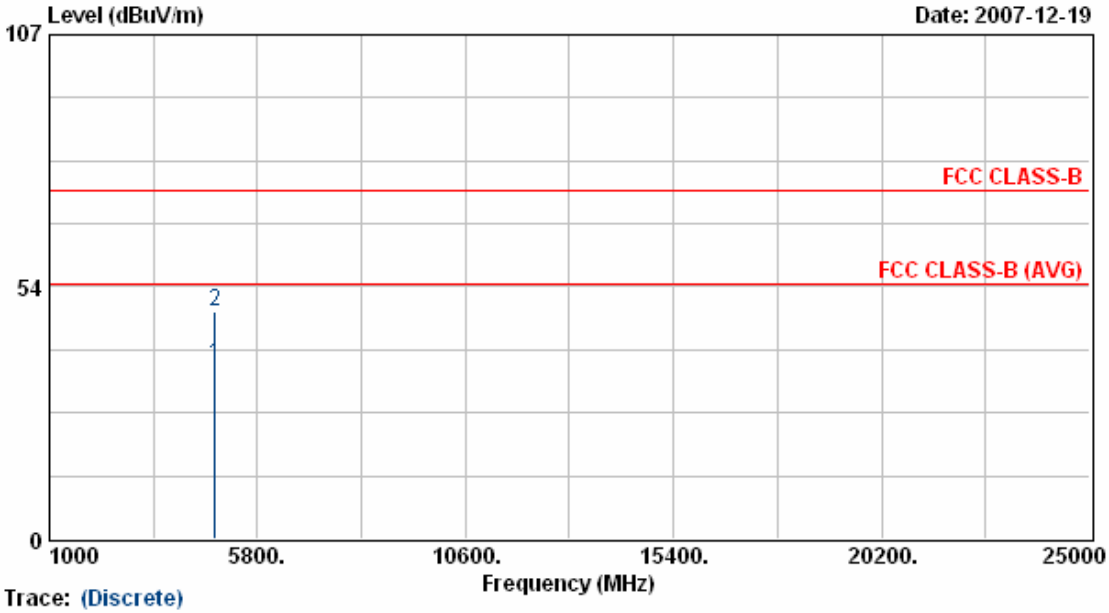
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.13	31.06	5.97	37.04	54.00	-16.96	Average	100	194
2	4824.13	42.69	5.97	48.66	74.00	-25.34	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



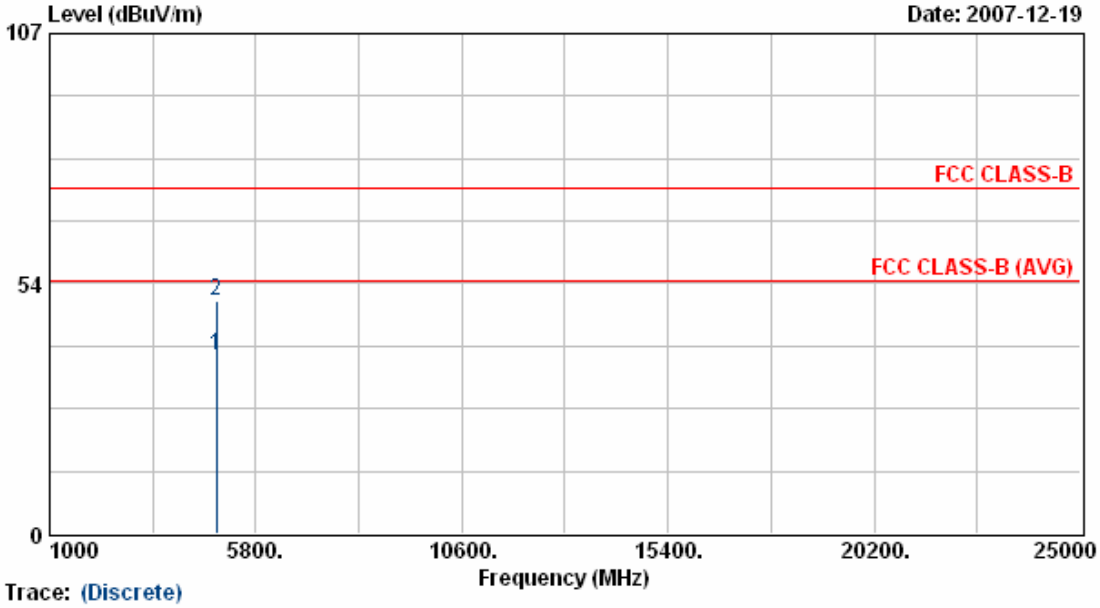
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.88	30.80	5.97	36.77	54.00	-17.23	Average	100	201
2	4823.88	42.46	5.97	48.43	74.00	-25.57	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



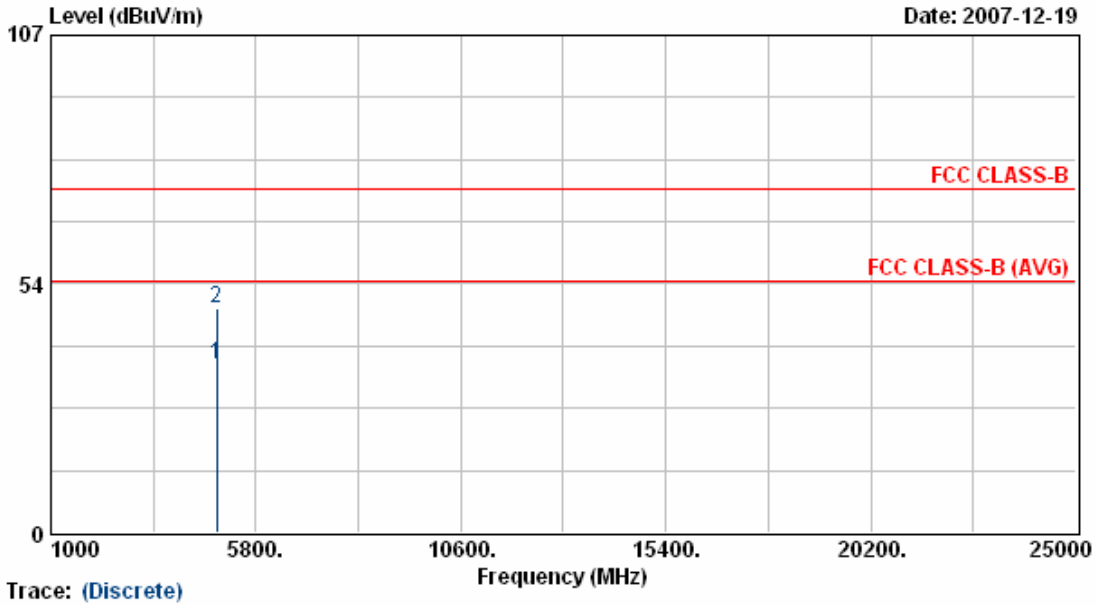
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	31.97	6.10	38.08	54.00	-15.92	Average	100	194
2	4874.13	43.73	6.10	49.83	74.00	-24.17	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



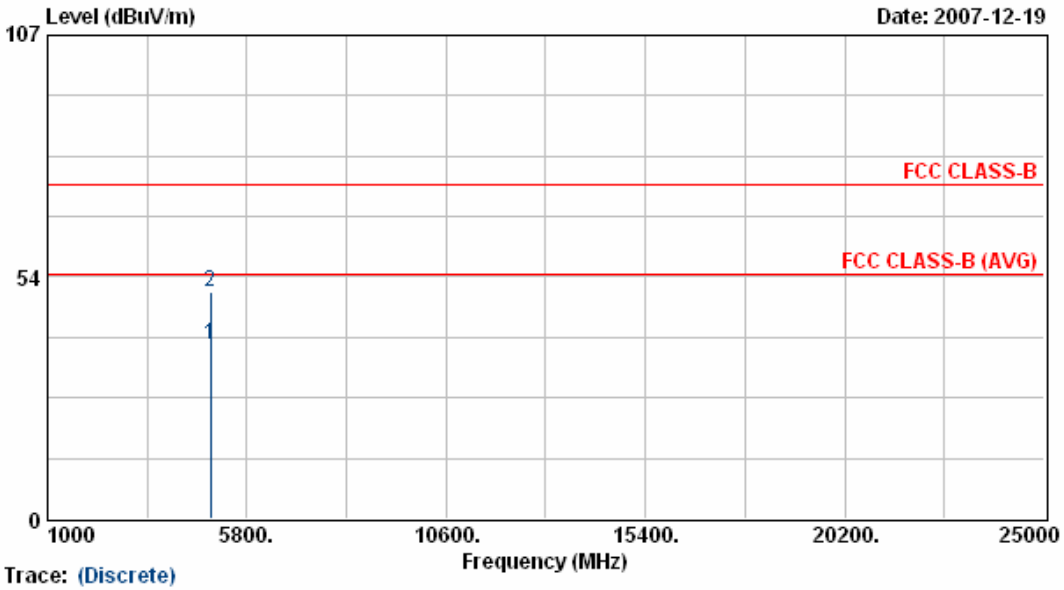
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	30.28	6.10	36.38	54.00	-17.62	Average	100	201
2	4874.13	41.97	6.10	48.07	74.00	-25.93	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



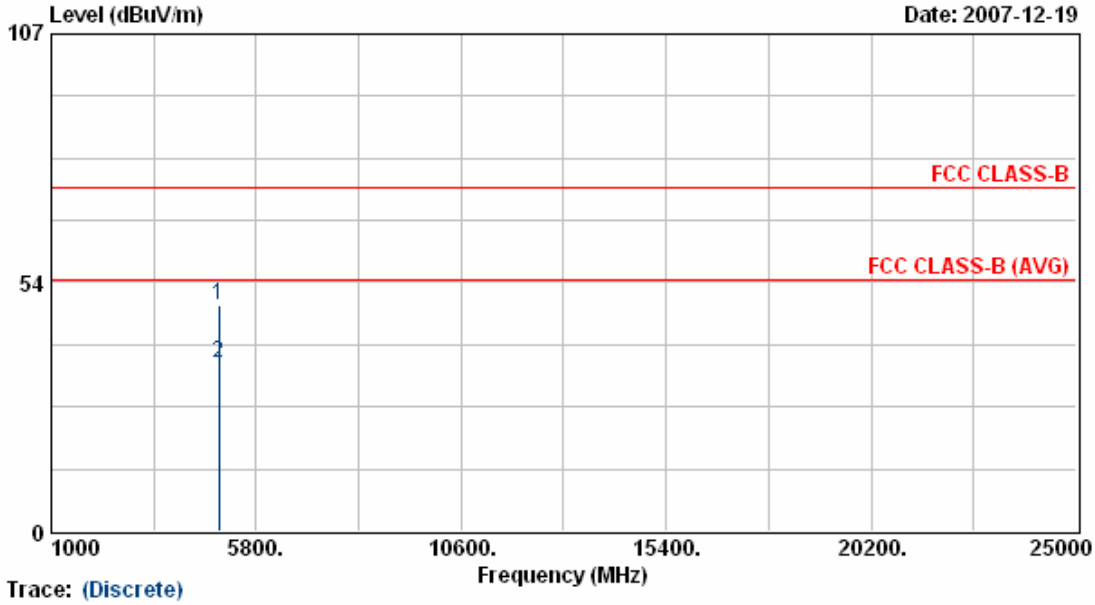
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	32.41	6.23	38.64	54.00	-15.36	Average	100	194
2	4924.13	44.06	6.23	50.29	74.00	-23.71	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



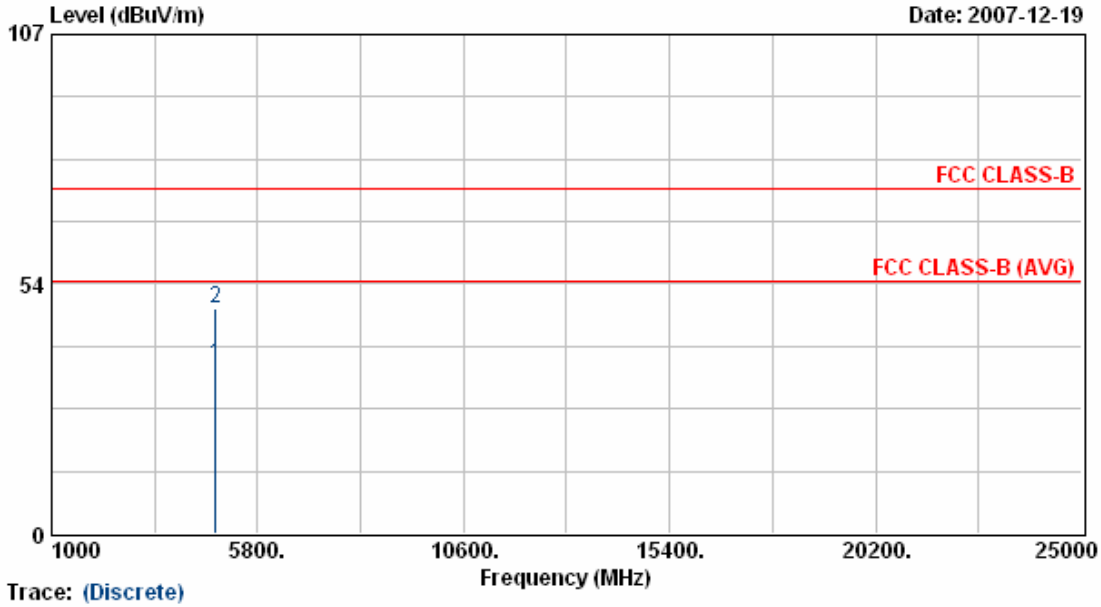
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	42.25	6.23	48.48	74.00	-25.52	Peak	100	201
2	4924.13	30.15	6.23	36.38	54.00	-17.62	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



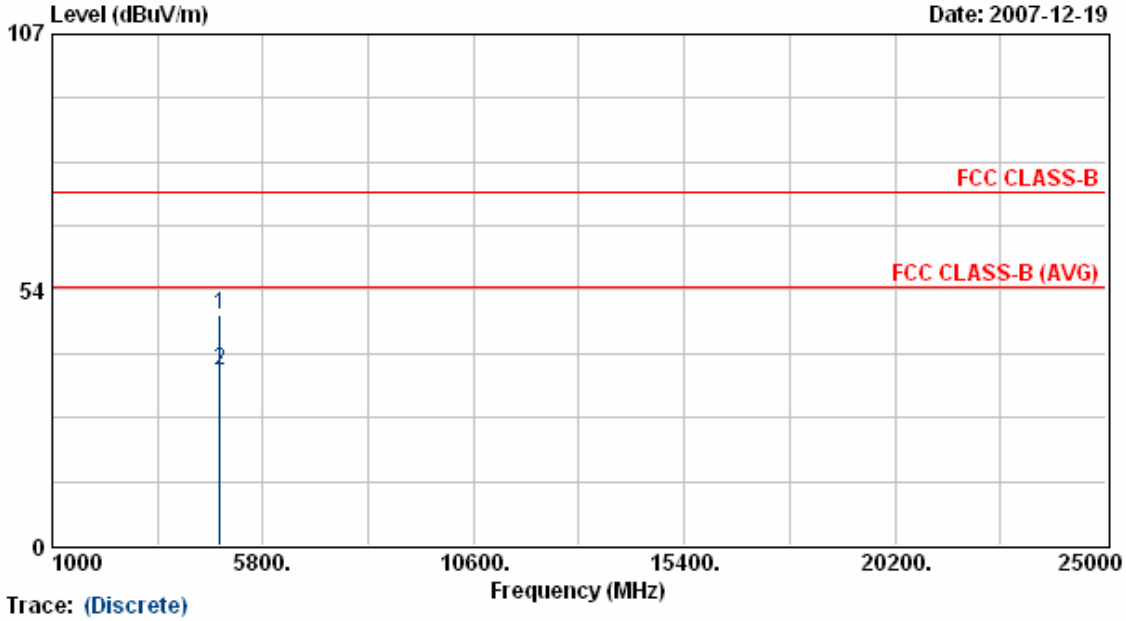
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.25	30.33	5.97	36.30	54.00	-17.70	Average	100	194
2	4824.25	42.26	5.97	48.23	74.00	-25.77	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



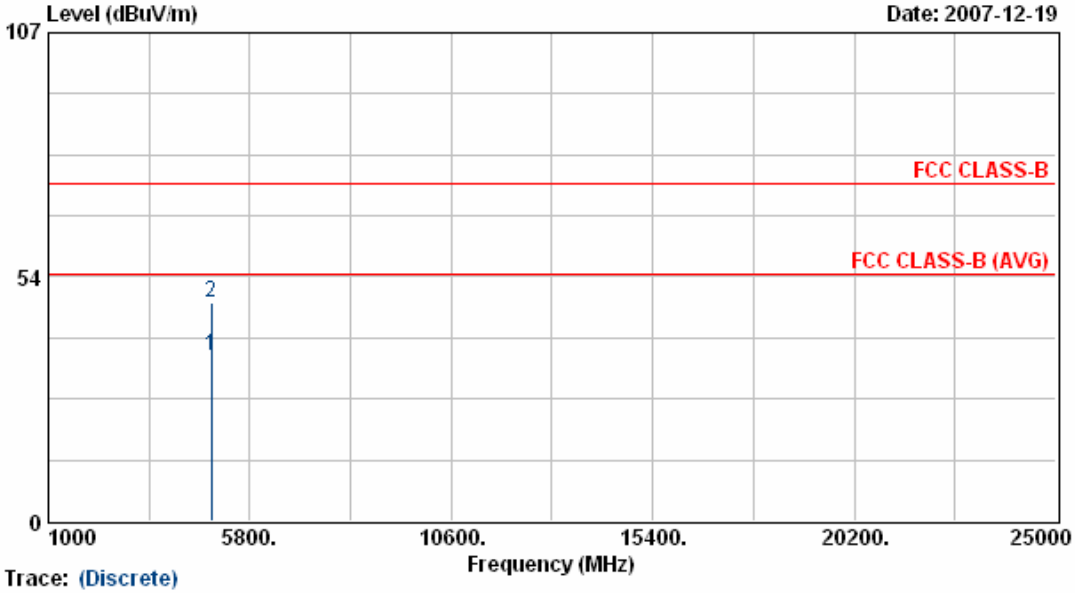
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	42.44	5.97	48.41	74.00	-25.59	Peak	100	201
2	4824.00	30.52	5.97	36.49	54.00	-17.51	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



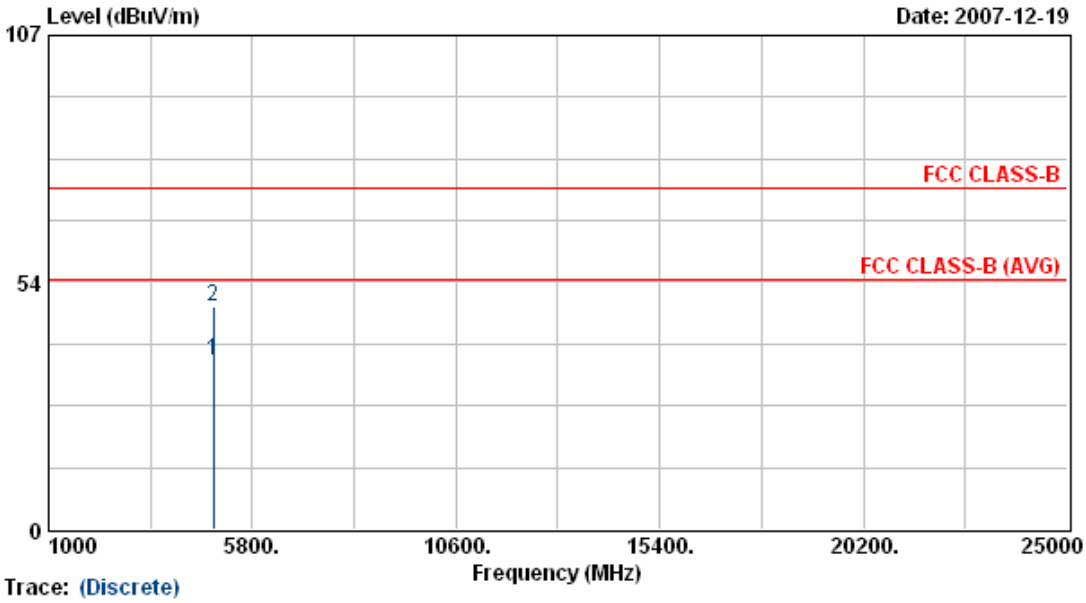
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.88	30.25	6.10	36.35	54.00	-17.65	Average	100	194
2	4873.88	41.95	6.10	48.05	74.00	-25.95	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



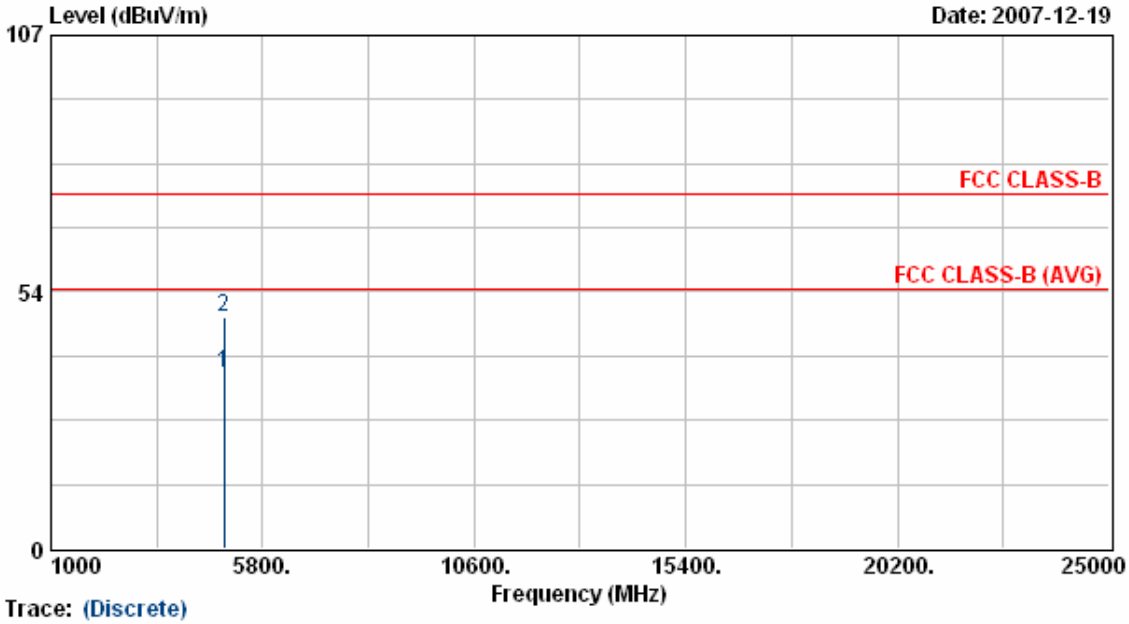
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	30.57	6.10	36.67	54.00	-17.33	Average	100	201
2	4874.00	42.24	6.10	48.34	74.00	-25.66	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



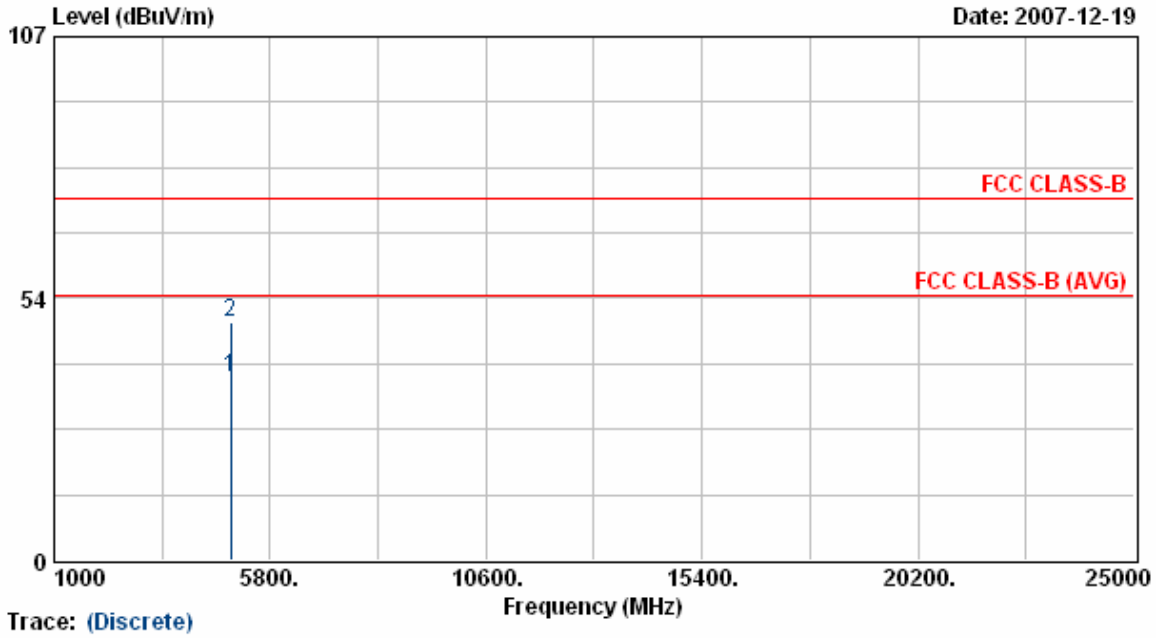
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.88	30.16	6.23	36.39	54.00	-17.61	Average	100	194
2	4923.88	41.99	6.23	48.22	74.00	-25.78	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



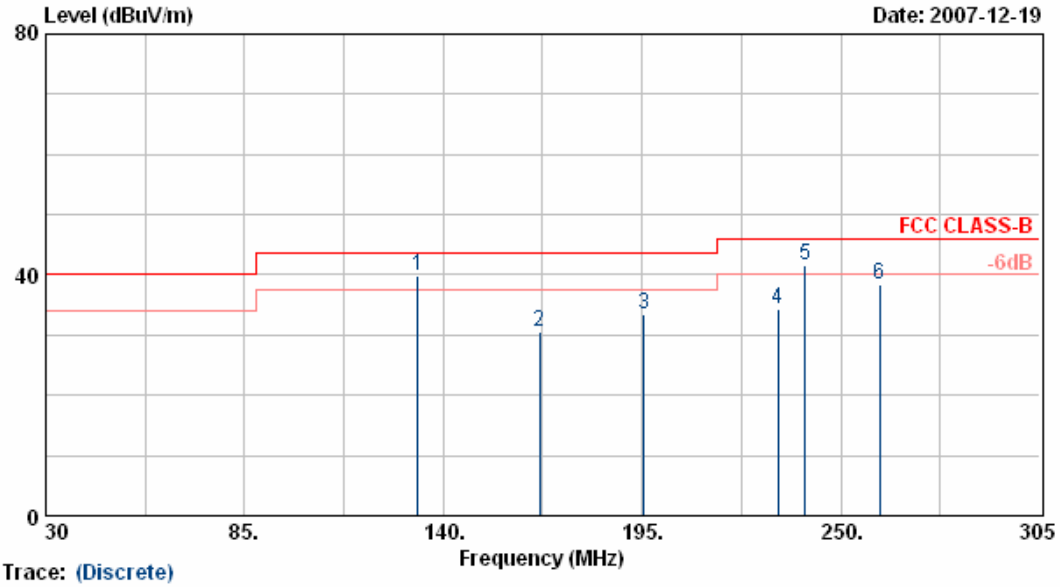
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4922.88	30.94	6.23	37.17	54.00	-16.83	Average	100	201
2	4922.88	42.47	6.23	48.70	74.00	-25.30	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



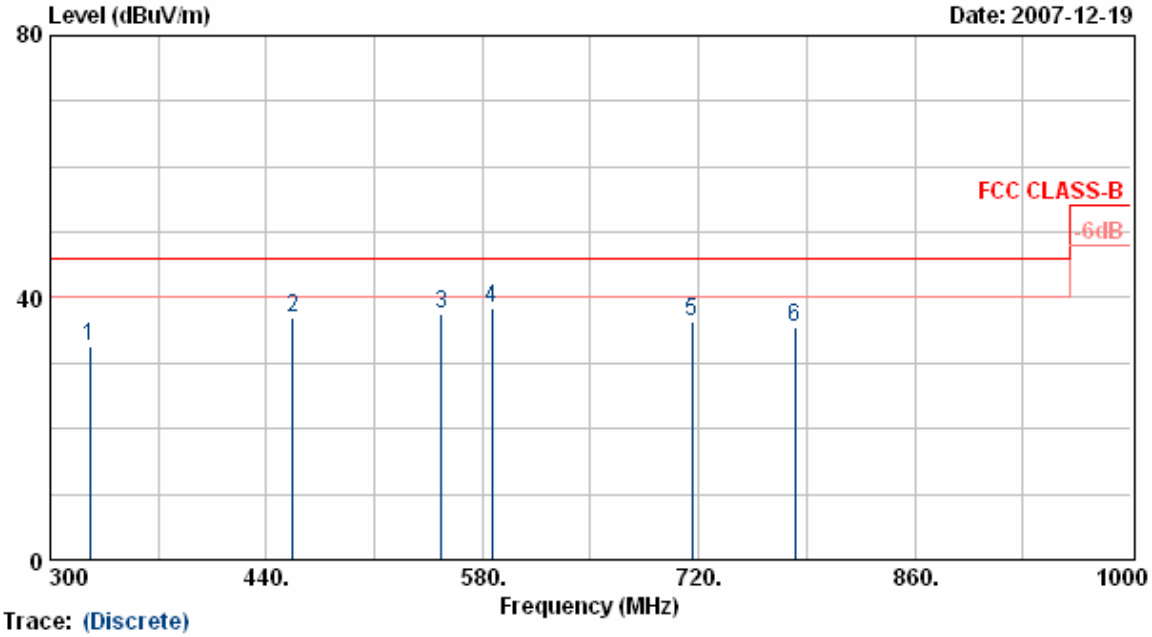
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.68	-12.97	39.71	43.50	-3.79	QP	100	44
2	166.68	44.85	-14.41	30.44	43.50	-13.06	Peak	100	147
3	195.55	46.55	-13.01	33.54	43.50	-9.96	Peak	100	145
4	232.68	46.77	-12.38	34.39	46.00	-11.61	Peak	100	167
5	240.10	54.38	-12.70	41.68	46.00	-4.32	QP	100	166
6	260.73	49.47	-11.17	38.30	46.00	-7.70	Peak	150	111

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



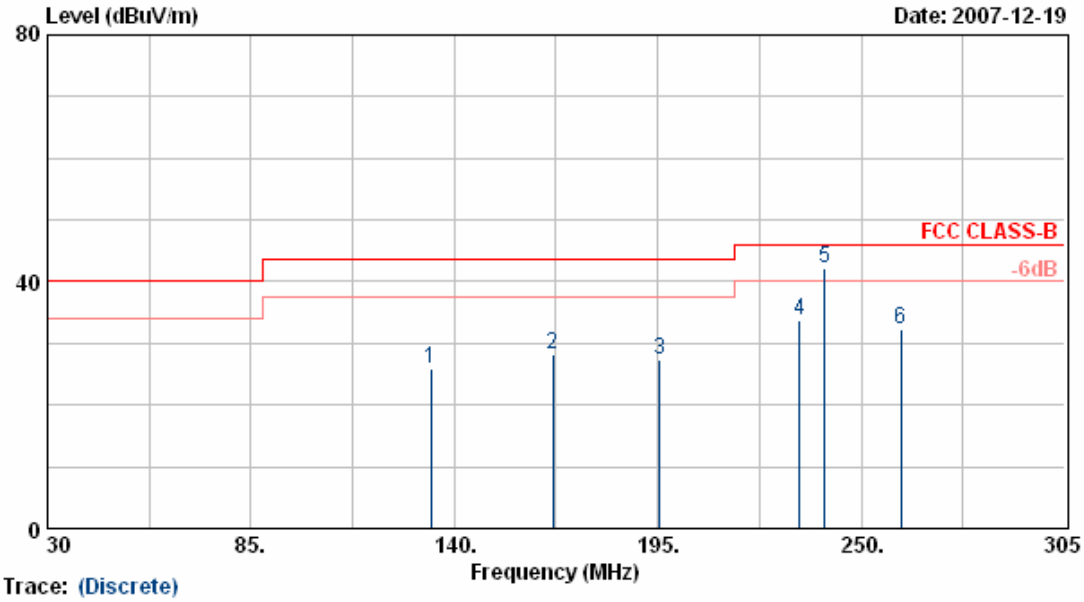
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.37	-11.71	32.65	46.00	-13.35	Peak	100	199
2	456.80	44.87	-7.80	37.07	46.00	-8.93	Peak	100	137
3	553.40	42.36	-4.85	37.50	46.00	-8.50	Peak	100	117
4	586.30	48.14	-9.73	38.41	46.00	-7.59	Peak	100	211
5	715.80	41.26	-5.03	36.23	46.00	-9.77	Peak	100	136
6	782.30	39.87	-4.31	35.56	46.00	-10.44	Peak	100	110

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



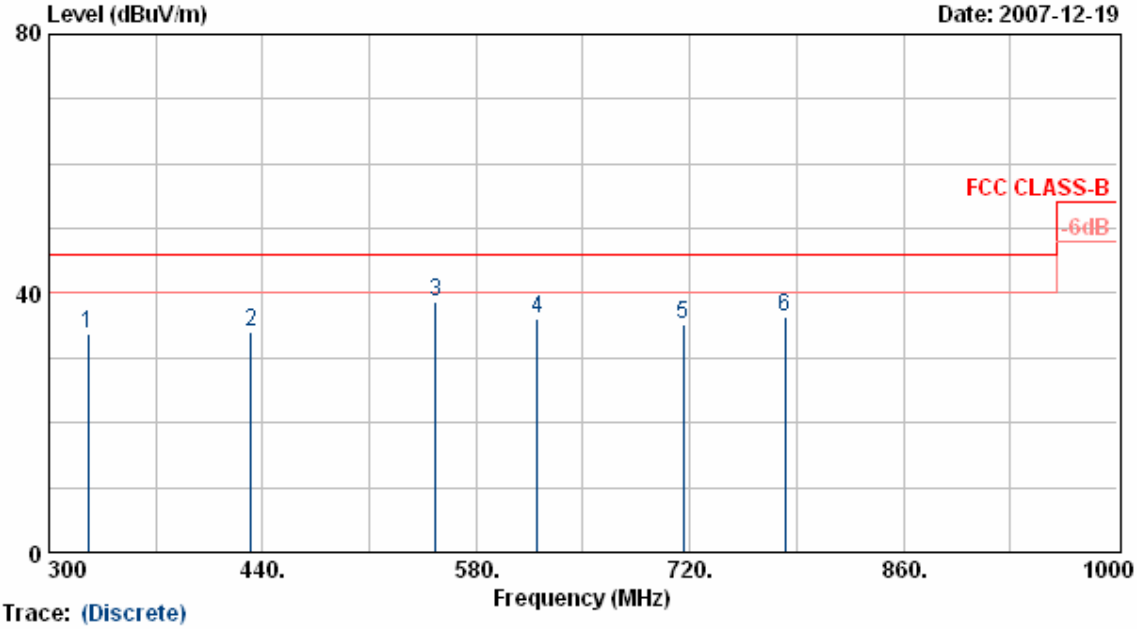
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.46	-19.48	25.98	43.50	-17.52	Peak	100	127
2	166.68	48.34	-20.20	28.14	43.50	-15.36	Peak	100	117
3	195.55	47.19	-19.74	27.45	43.50	-16.05	Peak	100	217
4	233.23	50.55	-16.87	33.69	46.00	-12.31	Peak	100	138
5	240.10	59.84	-17.80	42.04	46.00	-3.96	QP	100	167
6	260.73	46.90	-14.47	32.43	46.00	-13.57	Peak	100	197

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC		Pol/Phase	:	HORIZONTAL	
Test Mode 1	:	Transmit / Receive		Temperature	:	22 °C	
Operation Channel	:	1		Humidity	:	70 %	
Modulation Type	:	802.11n draft 2.0, 20MHz		Atmospheric Pressure	:	1030 hPa	
Memo	:			Rate	:	6.5 Mbps	



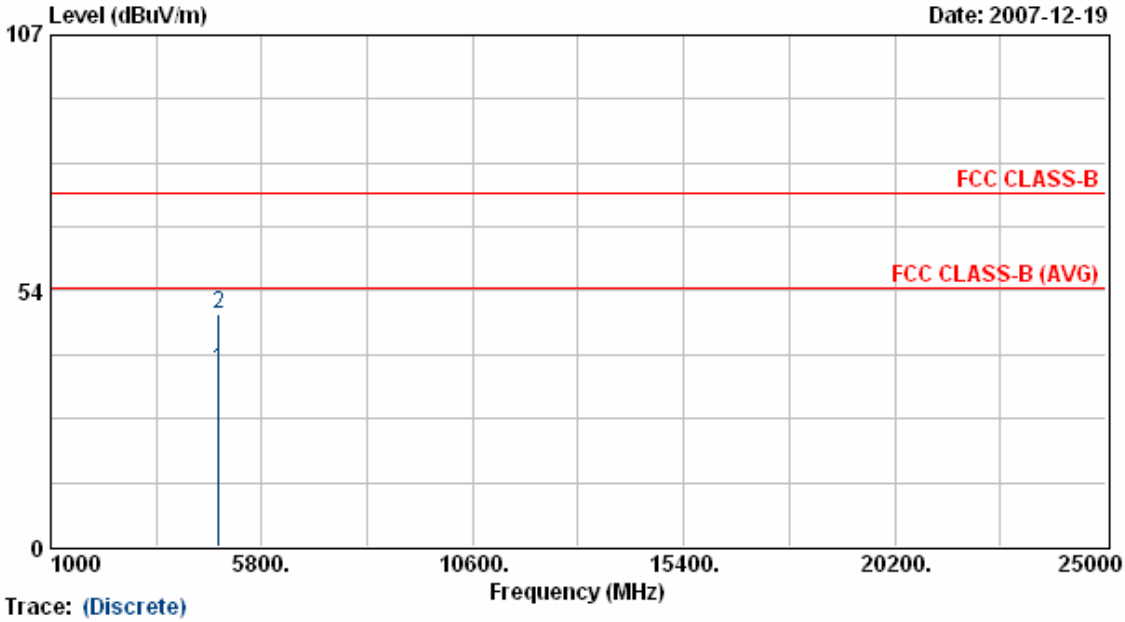
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.57	-13.72	33.85	46.00	-12.15	Peak	100	217
2	432.30	41.88	-7.88	34.00	46.00	-12.00	Peak	100	211
3	553.40	42.84	-4.03	38.81	46.00	-7.19	Peak	100	211
4	619.90	40.42	-4.41	36.00	46.00	-10.00	Peak	100	114
5	715.80	43.31	-8.16	35.15	46.00	-10.85	Peak	100	164
6	782.30	41.99	-5.58	36.40	46.00	-9.60	Peak	100	41

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



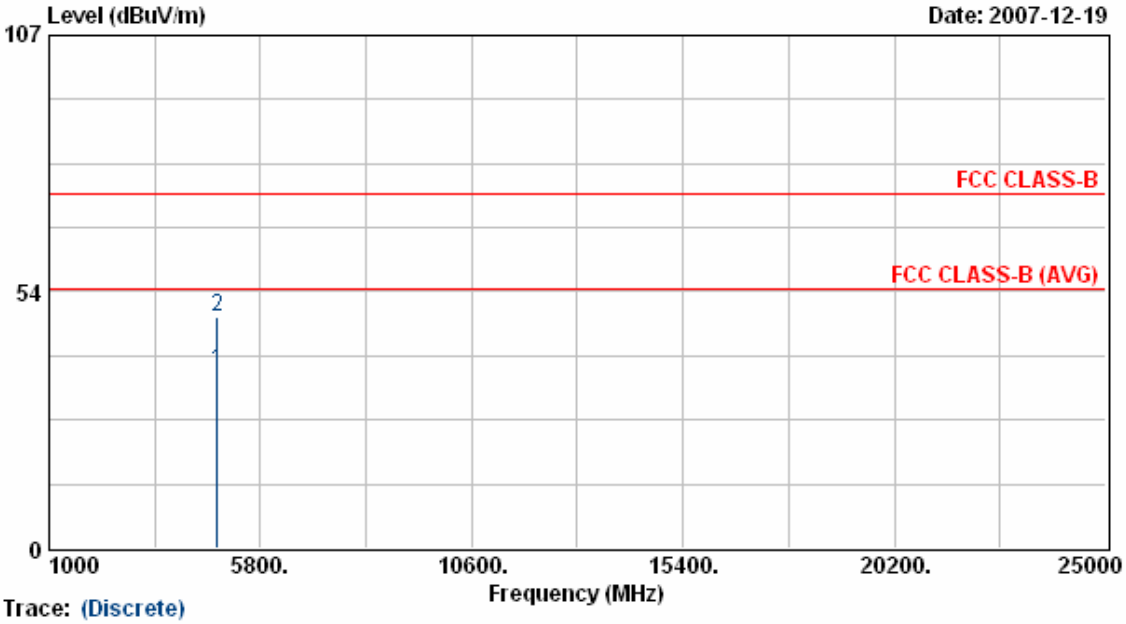
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.13	31.05	5.97	37.03	54.00	-16.97	Average	100	194
2	4824.13	42.67	5.97	48.65	74.00	-25.35	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



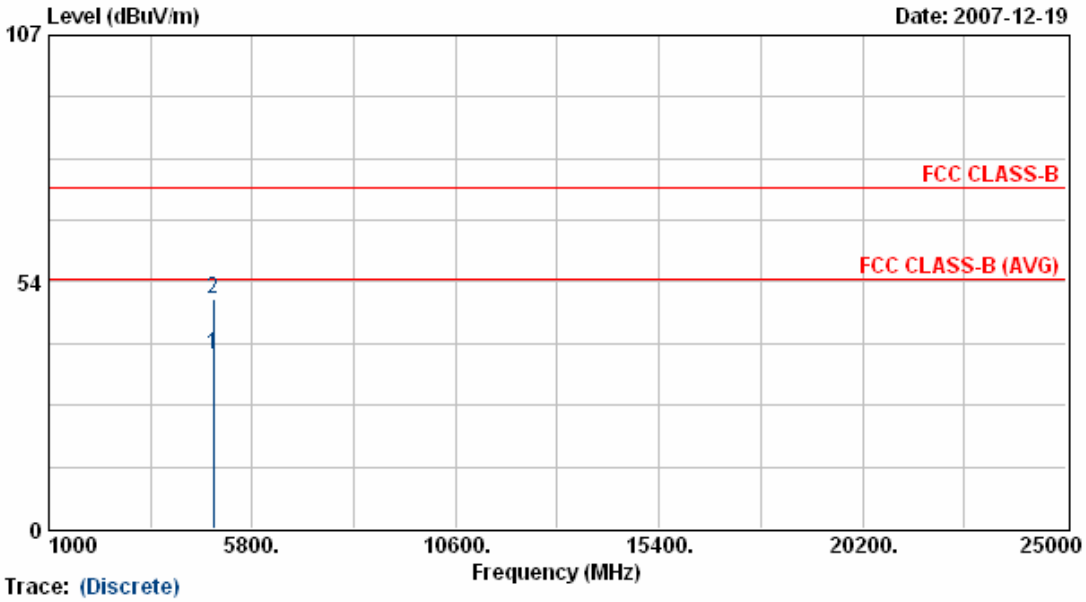
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.88	30.80	5.97	36.77	54.00	-17.23	Average	100	201
2	4823.88	42.43	5.97	48.40	74.00	-25.60	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



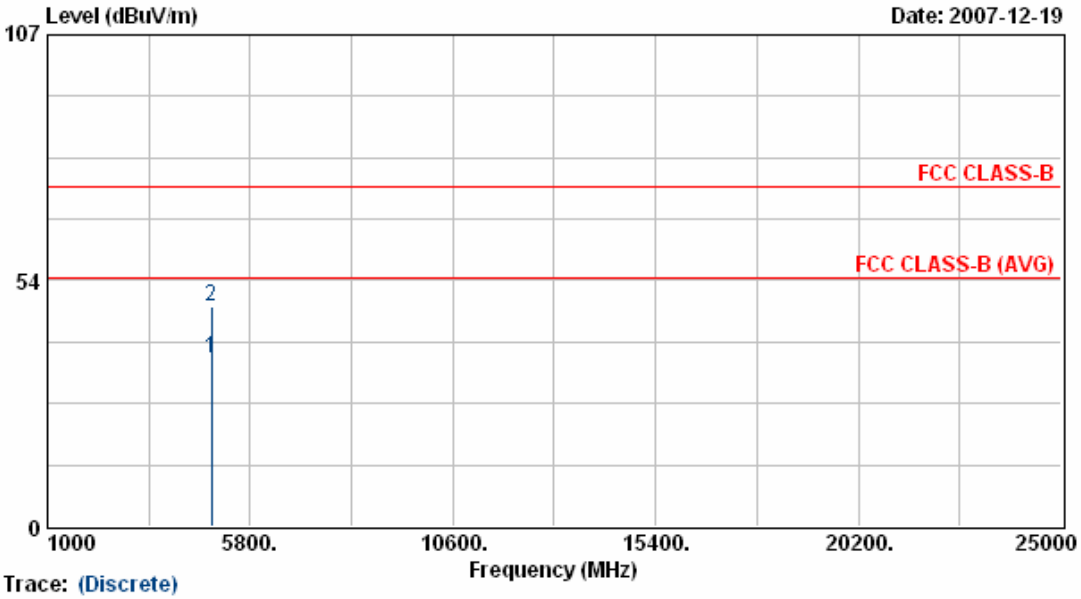
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	31.73	6.10	37.83	54.00	-16.17	Average	100	194
2	4874.13	43.77	6.10	49.87	74.00	-24.13	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



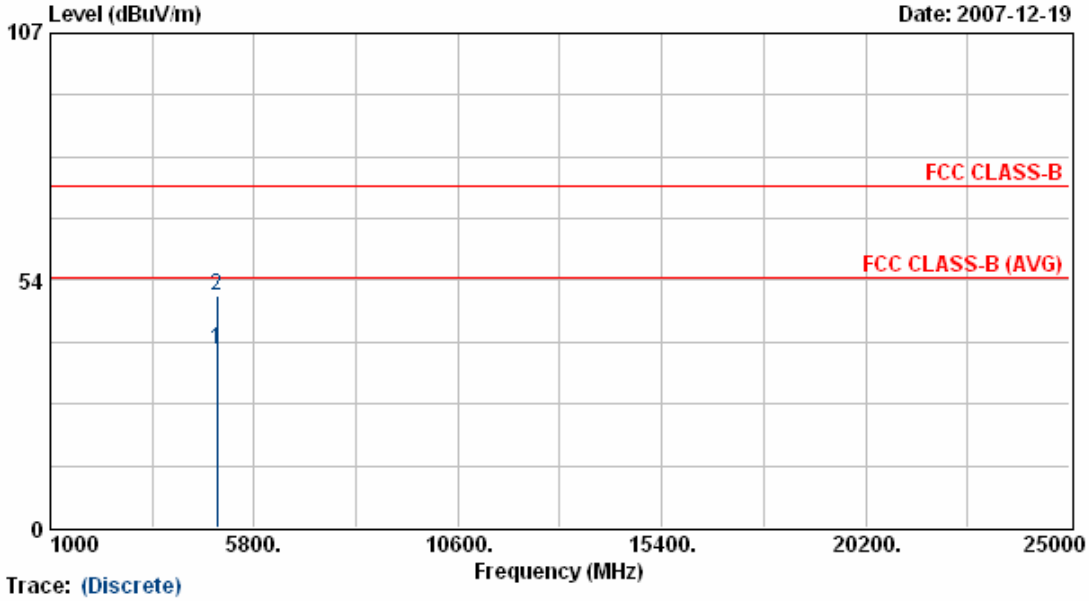
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	30.37	6.10	36.47	54.00	-17.53	Average	100	201
2	4874.13	41.87	6.10	47.97	74.00	-26.03	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



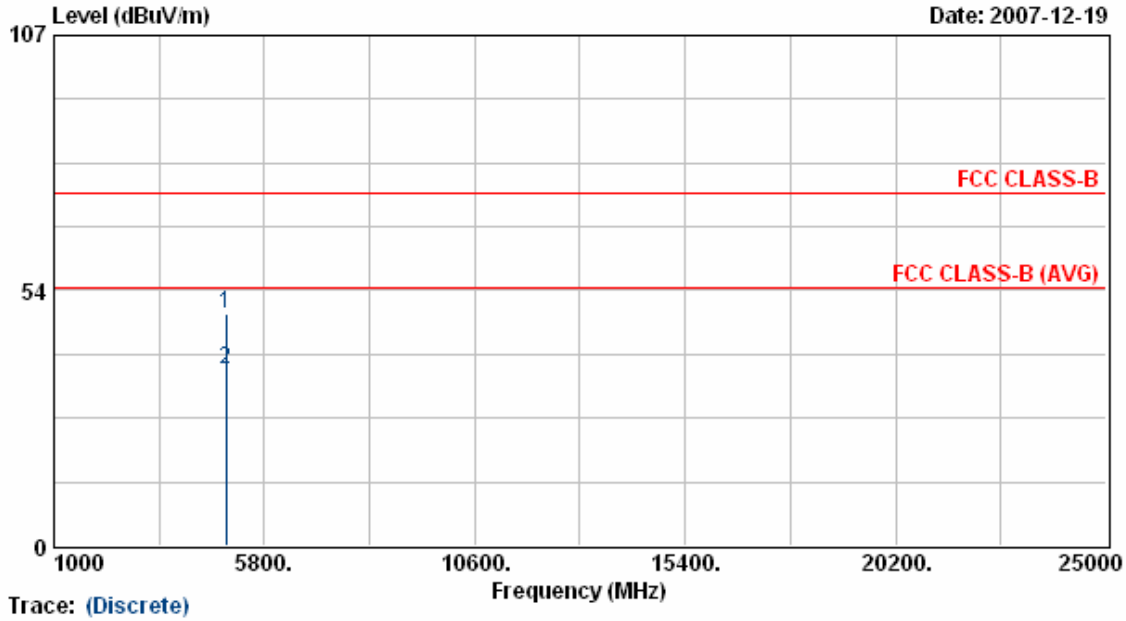
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	32.46	6.23	38.69	54.00	-15.31	Average	100	194
2	4924.13	44.09	6.23	50.32	74.00	-23.68	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



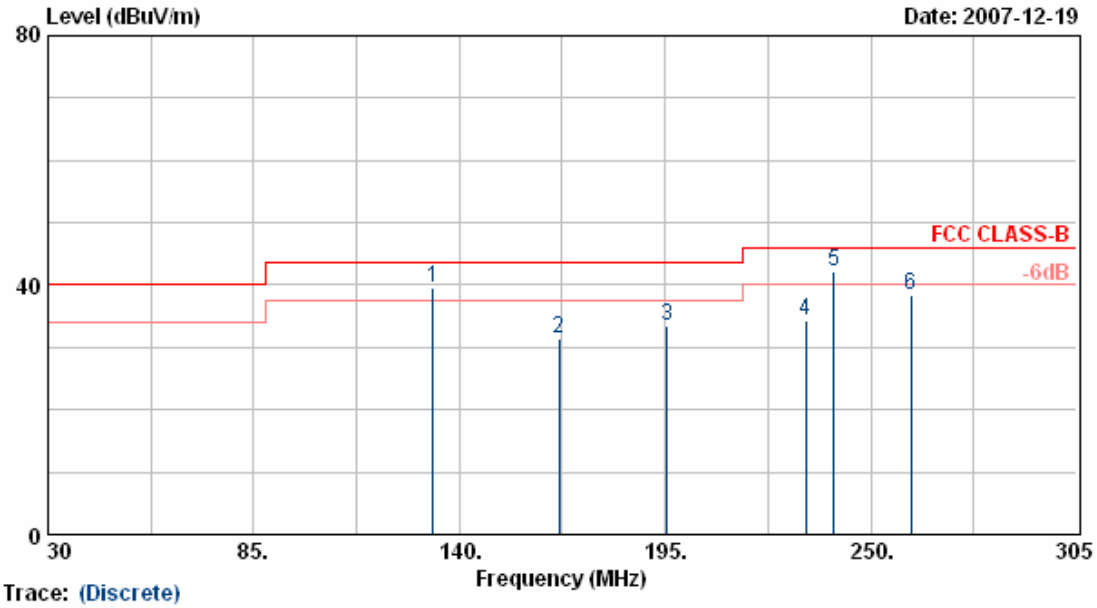
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	42.33	6.23	48.56	74.00	-25.44	Peak	100	201
2	4924.13	30.55	6.23	36.78	54.00	-17.22	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



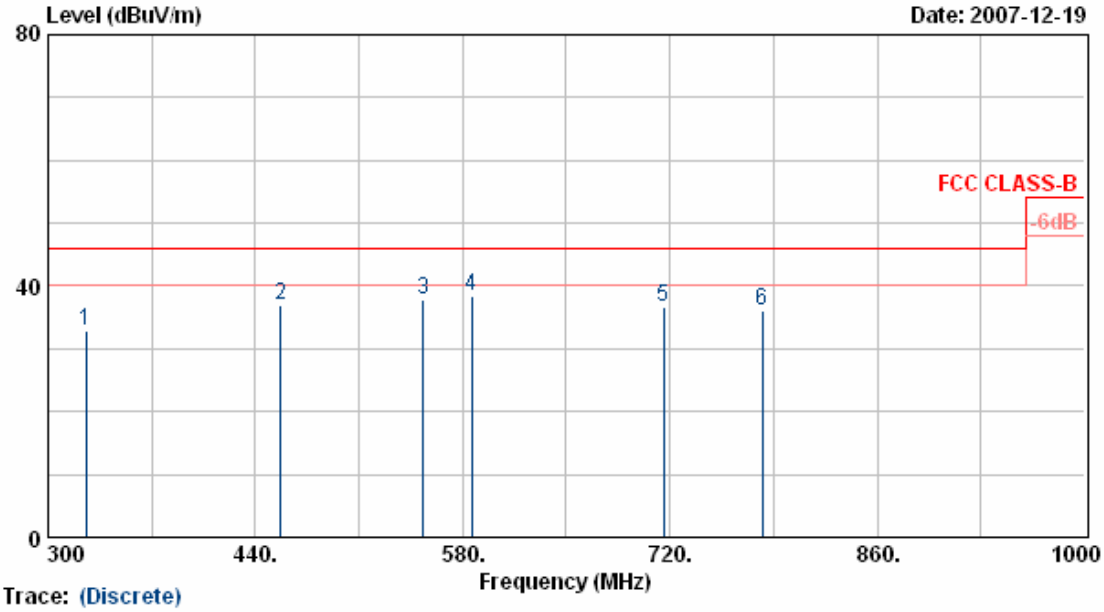
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.58	-12.97	39.61	43.50	-3.89	QP	100	44
2	166.68	45.80	-14.41	31.40	43.50	-12.10	Peak	100	147
3	195.55	46.45	-13.01	33.45	43.50	-10.05	Peak	100	145
4	232.68	46.67	-12.38	34.29	46.00	-11.71	Peak	100	167
5	240.10	54.84	-12.70	42.14	46.00	-3.86	QP	100	166
6	260.73	49.43	-11.17	38.26	46.00	-7.74	Peak	150	111

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



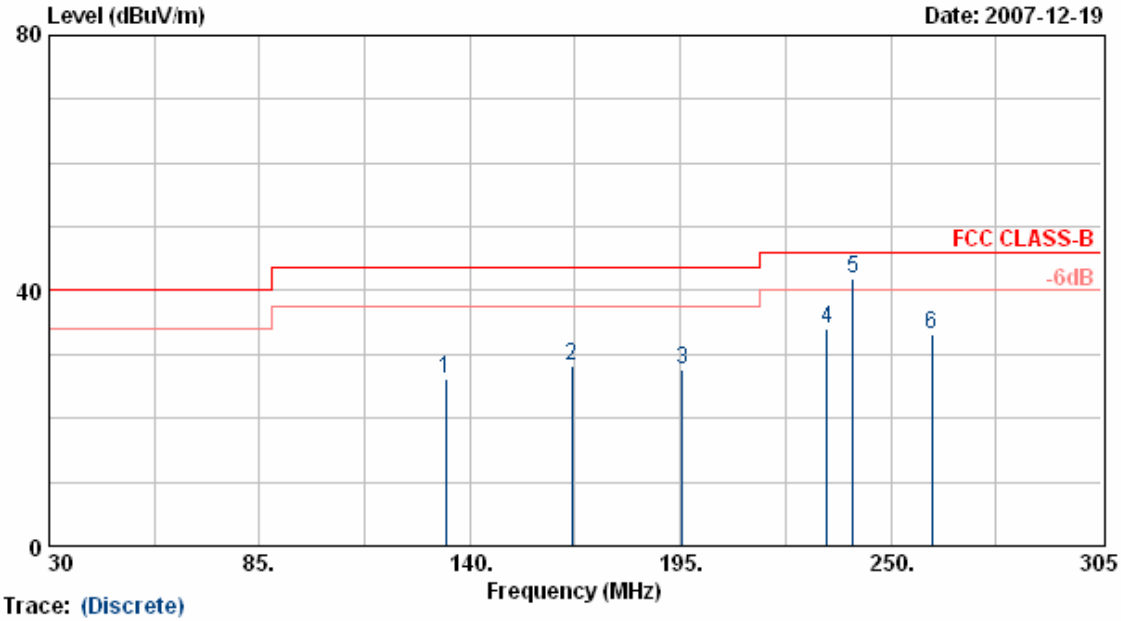
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.47	-11.71	32.75	46.00	-13.25	Peak	100	199
2	456.80	44.64	-7.80	36.84	46.00	-9.16	Peak	100	137
3	553.40	42.57	-4.85	37.71	46.00	-8.29	Peak	100	117
4	586.30	48.18	-9.73	38.45	46.00	-7.55	Peak	100	211
5	715.80	41.57	-5.03	36.54	46.00	-9.46	Peak	100	136
6	782.30	40.49	-4.31	36.18	46.00	-9.82	Peak	100	110

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



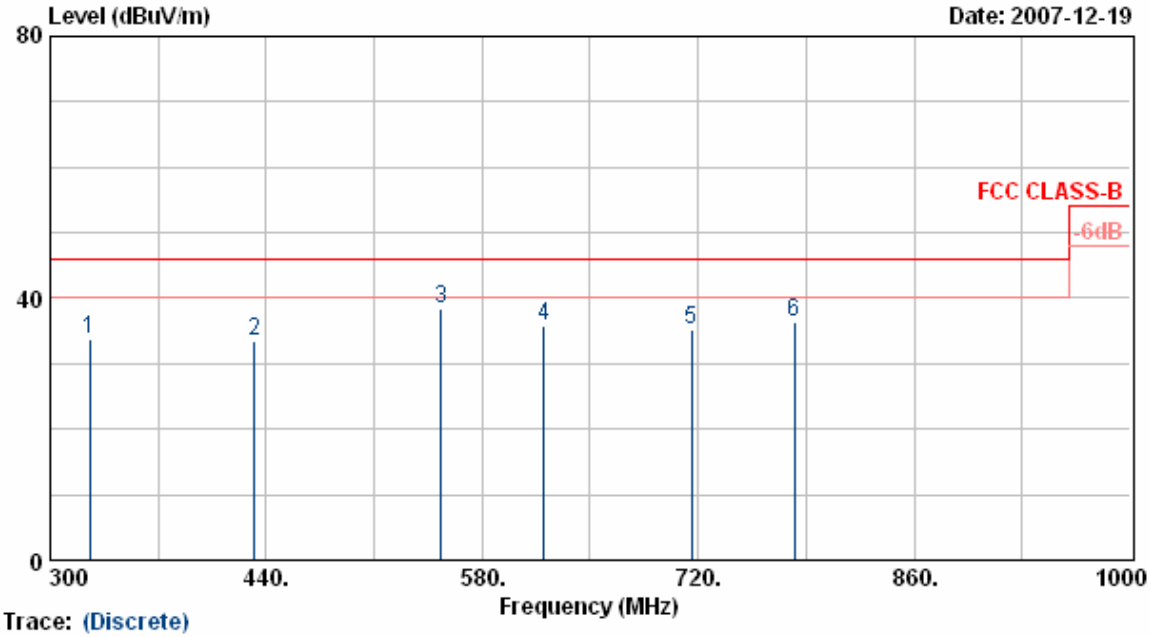
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.69	-19.48	26.20	43.50	-17.30	Peak	100	127
2	166.68	48.56	-20.20	28.36	43.50	-15.14	Peak	100	117
3	195.55	47.39	-19.74	27.65	43.50	-15.85	Peak	100	217
4	233.23	50.76	-16.87	33.90	46.00	-12.10	Peak	100	138
5	240.10	59.67	-17.80	41.87	46.00	-4.13	QP	100	167
6	260.73	47.60	-14.47	33.13	46.00	-12.87	Peak	100	197

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



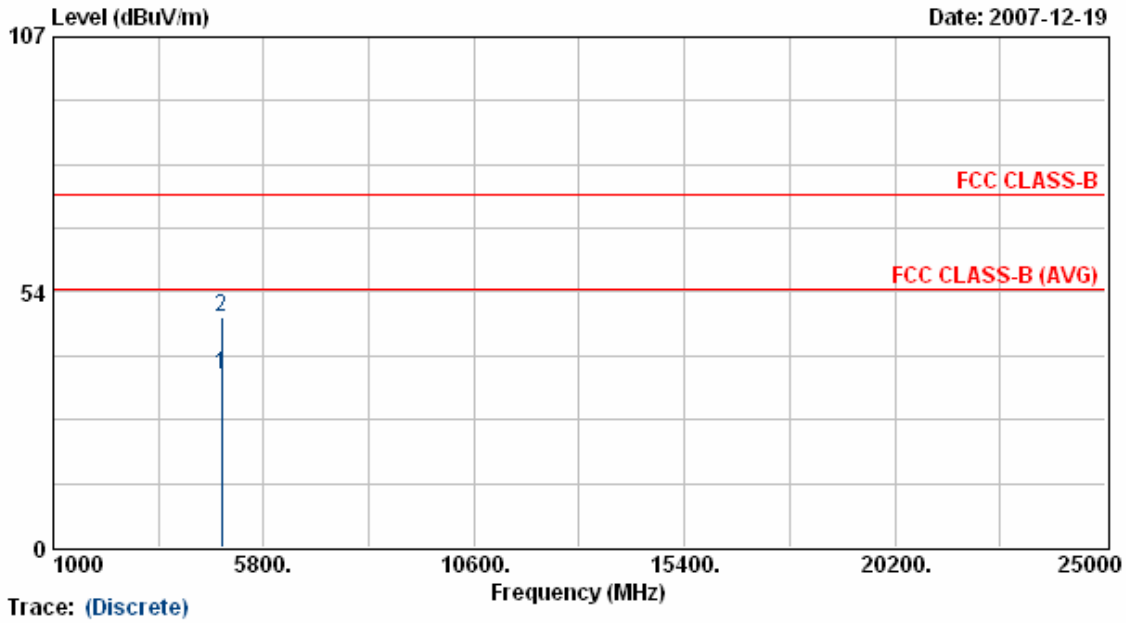
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.56	-13.72	33.84	46.00	-12.16	Peak	100	217
2	432.30	41.45	-7.88	33.56	46.00	-12.44	Peak	100	211
3	553.40	42.54	-4.03	38.51	46.00	-7.49	Peak	100	211
4	619.90	40.32	-4.41	35.90	46.00	-10.10	Peak	100	114
5	715.80	43.36	-8.16	35.20	46.00	-10.80	Peak	100	164
6	782.30	41.94	-5.58	36.35	46.00	-9.65	Peak	100	41

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



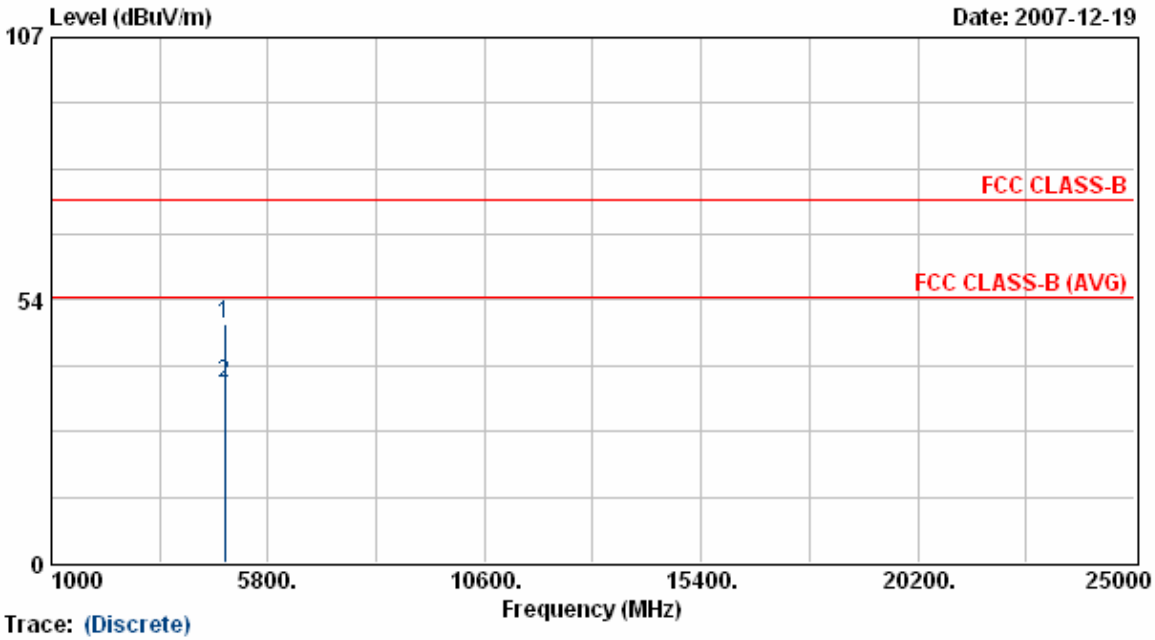
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.25	30.31	6.03	36.33	54.00	-17.67	Average	100	194
2	4844.25	42.31	6.03	48.34	74.00	-25.66	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



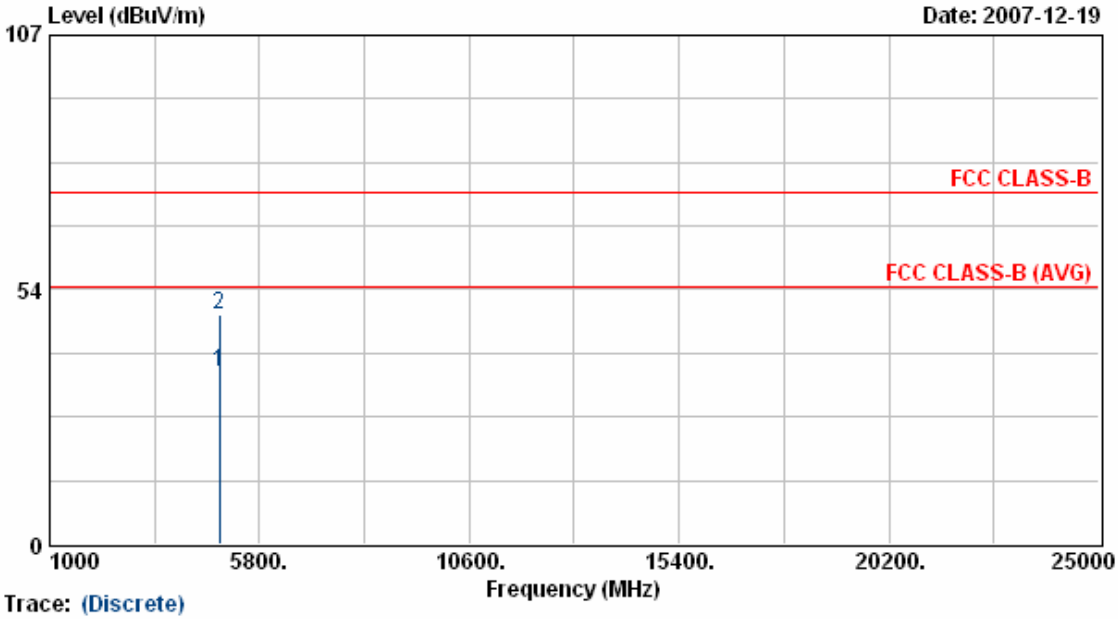
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.00	42.44	6.02	48.46	74.00	-25.54	Peak	100	201
2	4844.00	30.57	6.02	36.59	54.00	-17.41	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



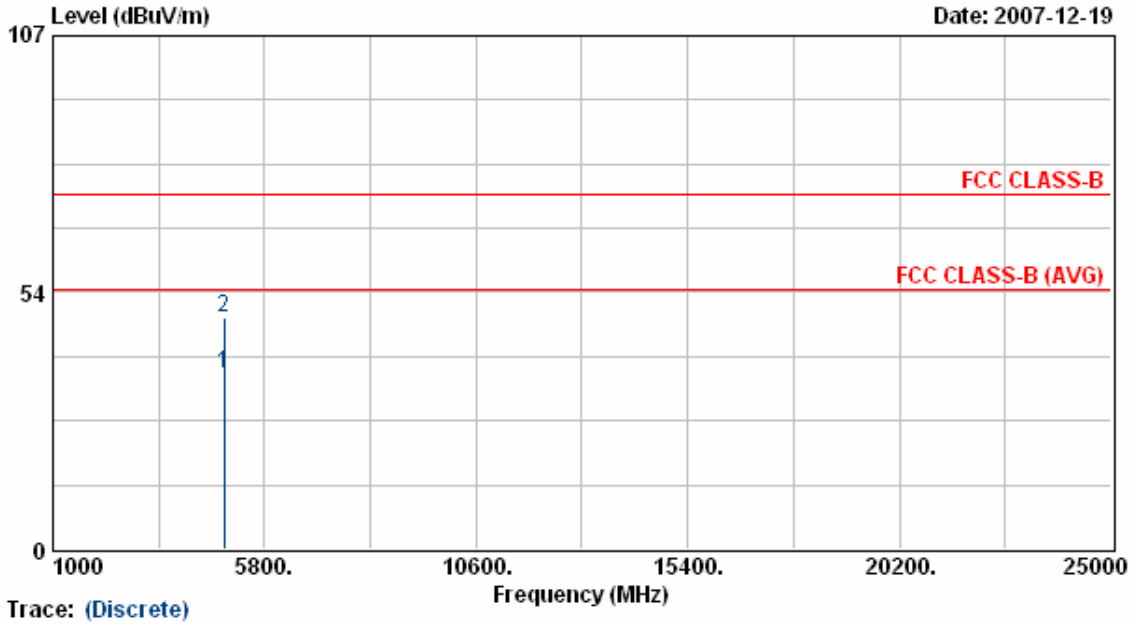
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.88	30.28	6.10	36.38	54.00	-17.62	Average	100	194
2	4873.88	41.97	6.10	48.07	74.00	-25.93	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



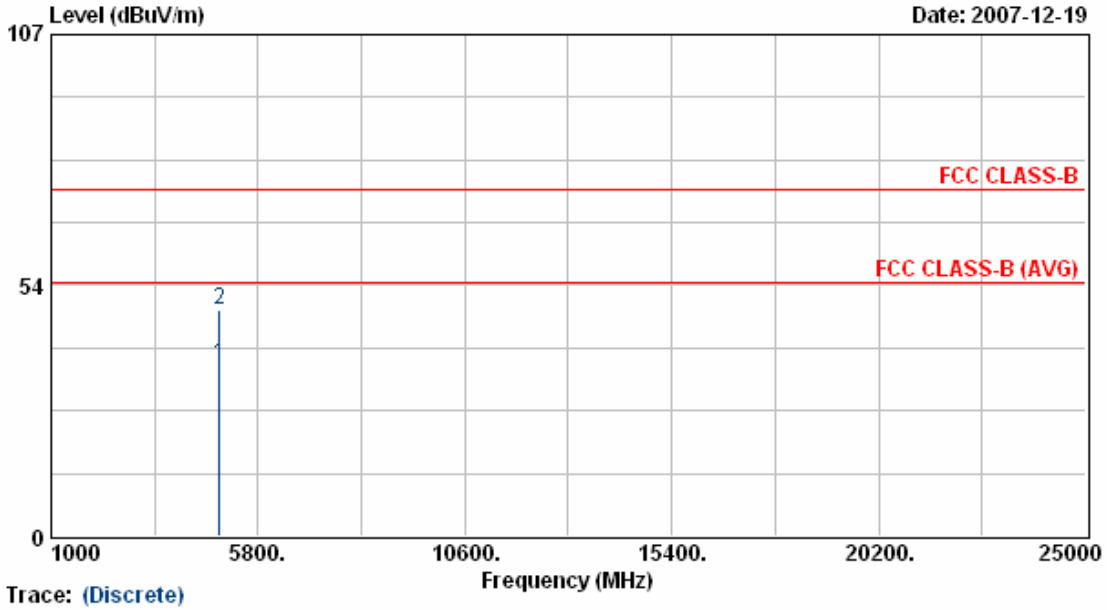
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	30.59	6.10	36.69	54.00	-17.31	Average	100	201
2	4874.00	42.23	6.10	48.33	74.00	-25.67	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	9	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



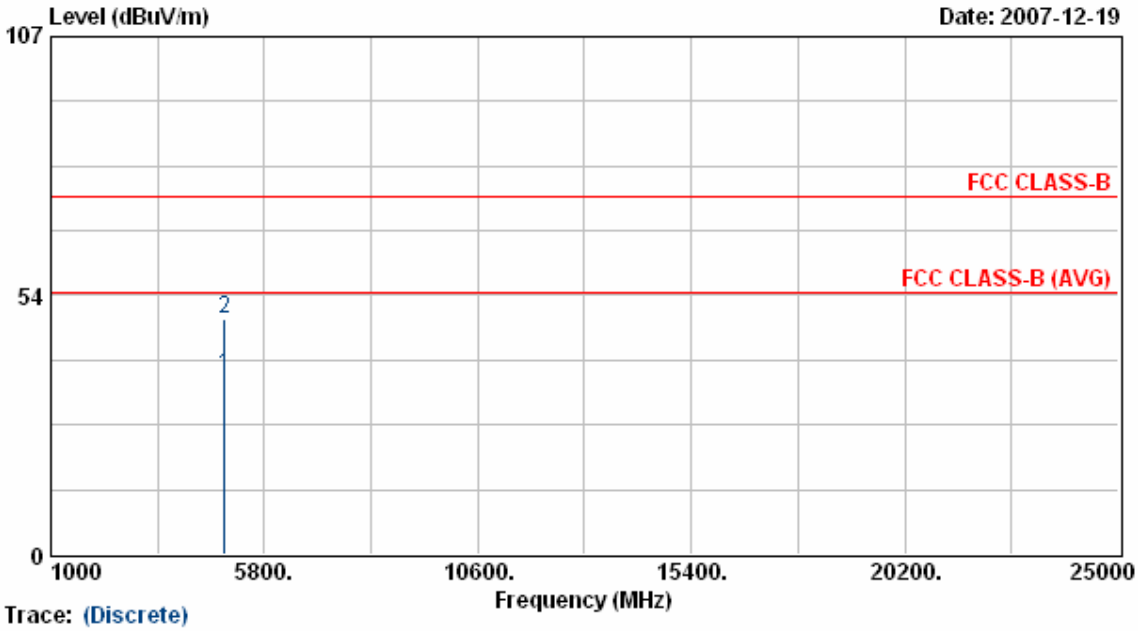
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4903.88	30.24	6.18	36.42	54.00	-17.58	Average	100	194
2	4903.88	41.91	6.18	48.09	74.00	-25.91	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	9	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



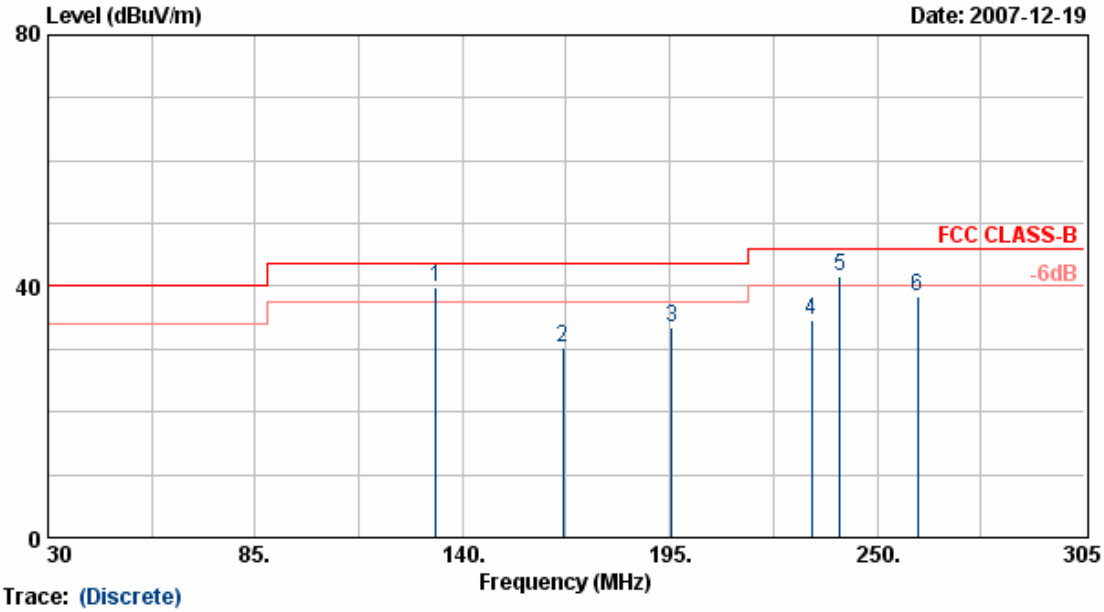
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4902.88	30.72	6.18	36.89	54.00	-17.11	Average	100	201
2	4902.88	42.58	6.18	48.76	74.00	-25.24	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6Mbps



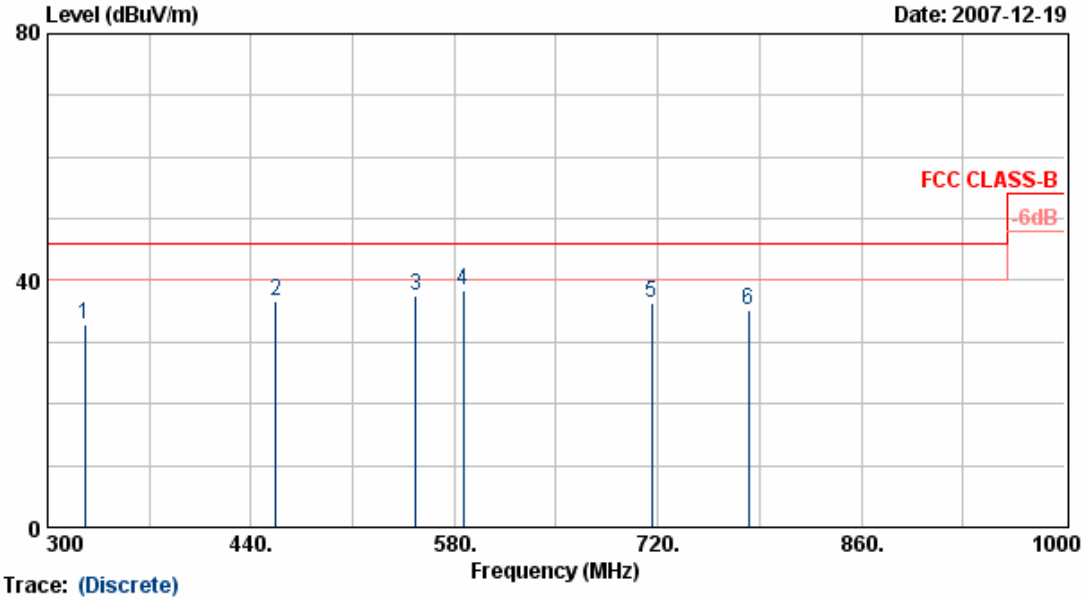
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.76	-12.97	39.79	43.50	-3.71	QP	100	44
2	166.68	44.80	-14.41	30.40	43.50	-13.10	Peak	100	147
3	195.55	46.55	-13.01	33.54	43.50	-9.96	Peak	100	145
4	232.68	46.98	-12.38	34.60	46.00	-11.40	Peak	100	167
5	240.10	54.23	-12.70	41.53	46.00	-4.47	QP	100	166
6	260.73	49.43	-11.17	38.26	46.00	-7.74	Peak	150	111

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6Mbps



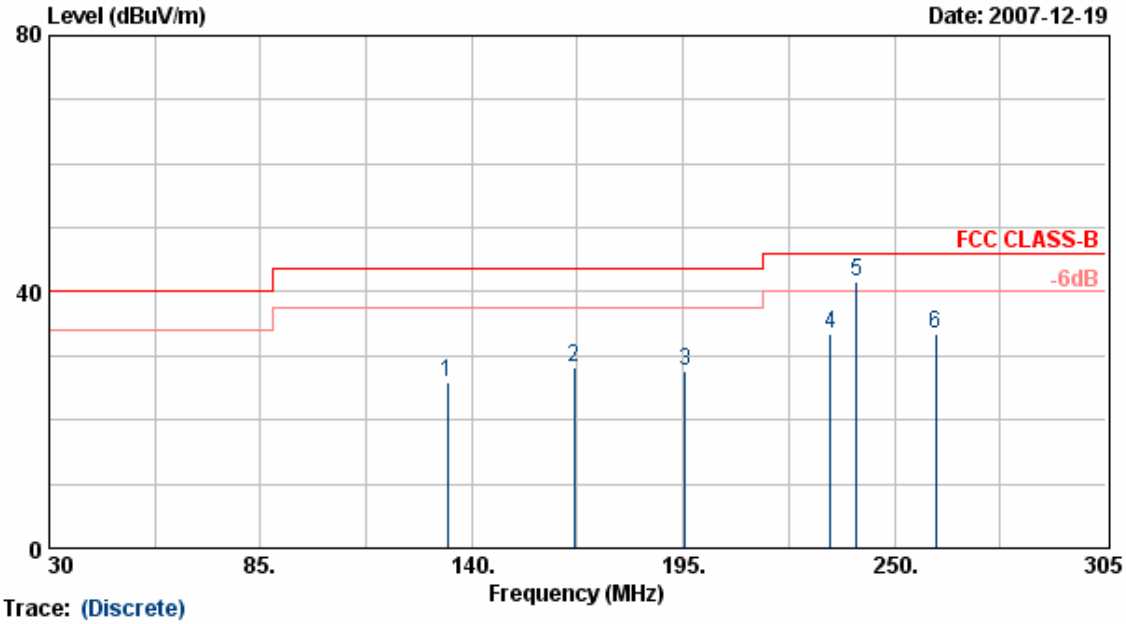
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.64	-11.71	32.92	46.00	-13.08	Peak	100	199
2	456.80	44.49	-7.80	36.69	46.00	-9.31	Peak	100	137
3	553.40	42.47	-4.85	37.61	46.00	-8.39	Peak	100	117
4	586.30	48.11	-9.73	38.38	46.00	-7.62	Peak	100	211
5	715.80	41.36	-5.03	36.33	46.00	-9.67	Peak	100	136
6	782.30	39.49	-4.31	35.18	46.00	-10.82	Peak	100	110

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



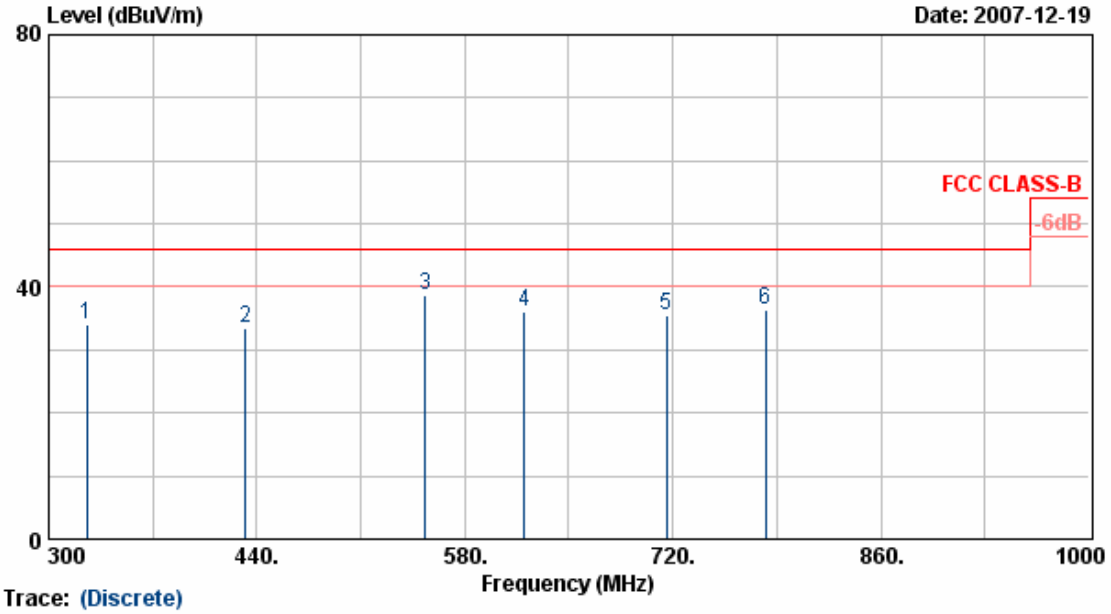
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.49	-19.48	26.00	43.50	-17.50	Peak	100	127
2	166.68	48.30	-20.20	28.10	43.50	-15.40	Peak	100	117
3	195.55	47.49	-19.74	27.75	43.50	-15.75	Peak	100	217
4	233.23	50.46	-16.87	33.60	46.00	-12.40	Peak	100	138
5	240.10	59.46	-17.80	41.66	46.00	-4.34	QP	100	167
6	260.73	47.90	-14.47	33.43	46.00	-12.57	Peak	100	197

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



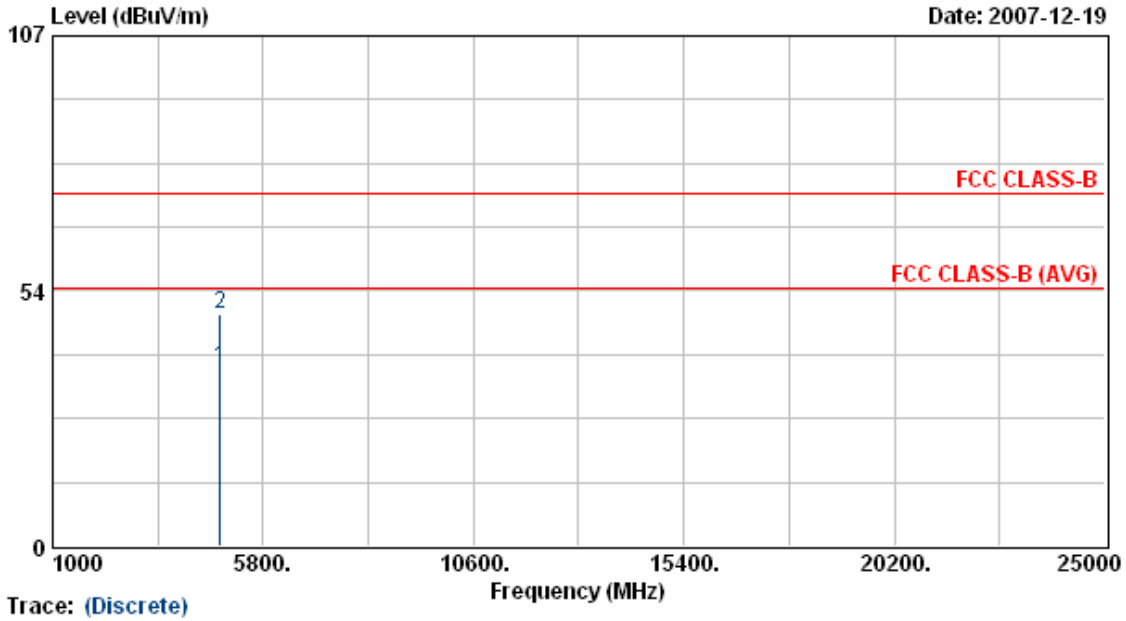
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.64	-13.72	33.92	46.00	-12.08	Peak	100	217
2	432.30	41.47	-7.88	33.59	46.00	-12.41	Peak	100	211
3	553.40	42.66	-4.03	38.63	46.00	-7.37	Peak	100	211
4	619.90	40.52	-4.41	36.10	46.00	-9.90	Peak	100	114
5	715.80	43.61	-8.16	35.45	46.00	-10.55	Peak	100	164
6	782.30	41.91	-5.58	36.32	46.00	-9.68	Peak	100	41

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 mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.13	31.54	5.97	37.51	54.00	-16.49	Average	100	194
2	4824.13	42.65	5.97	48.62	74.00	-25.38	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps

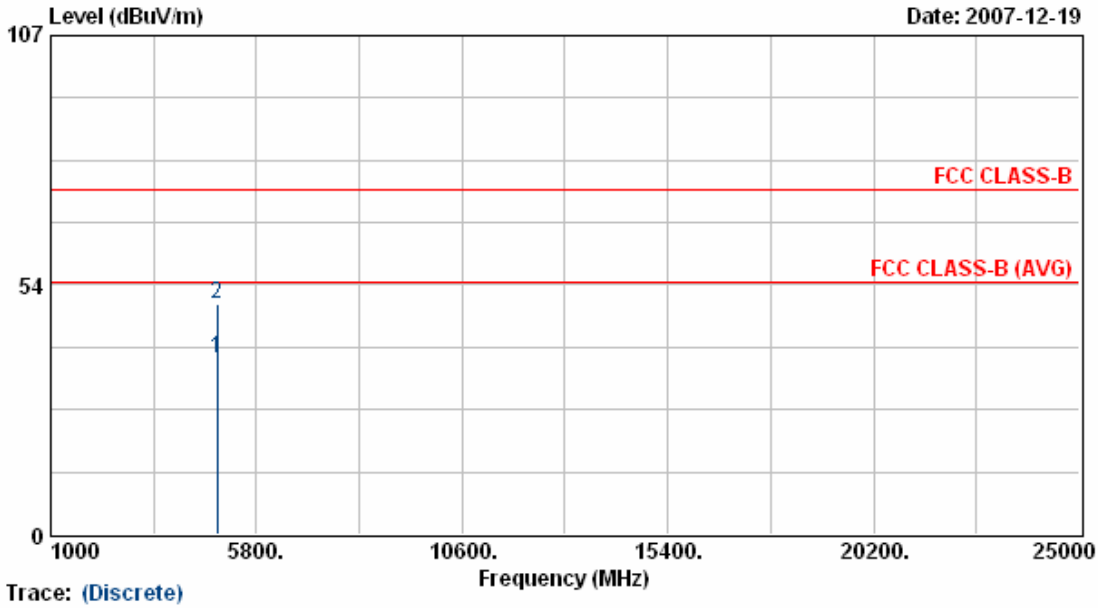
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.88	30.67	5.97	36.64	54.00	-17.36	Average	100	201
2	4823.88	42.68	5.97	48.66	74.00	-25.34	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



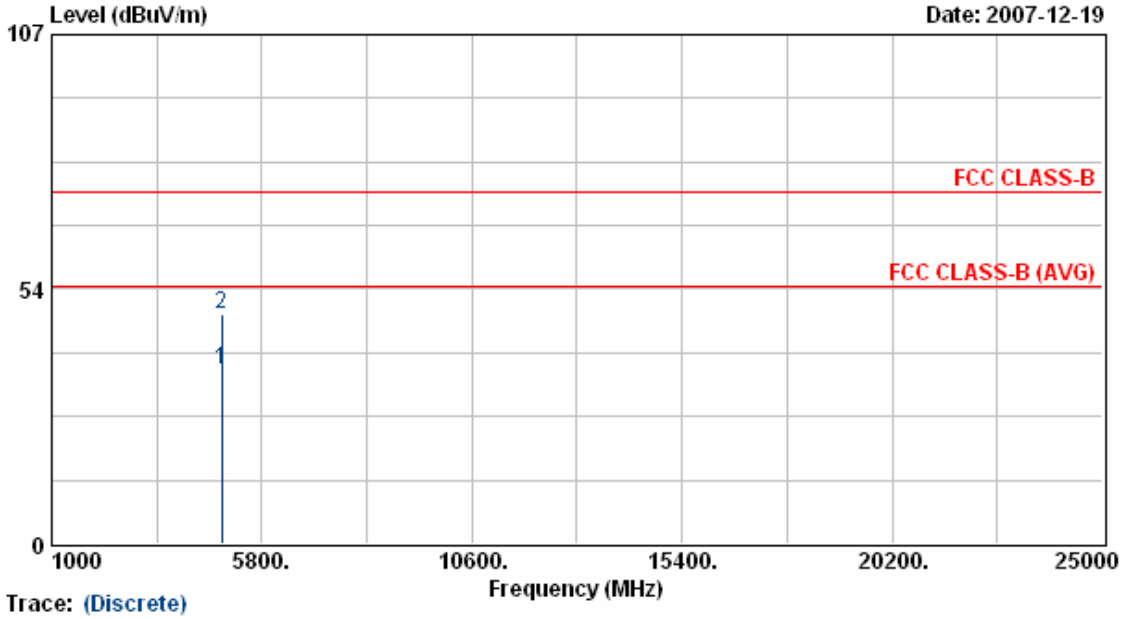
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	31.73	6.10	37.83	54.00	-16.17	Average	100	194
2	4874.13	43.33	6.10	49.43	74.00	-24.57	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



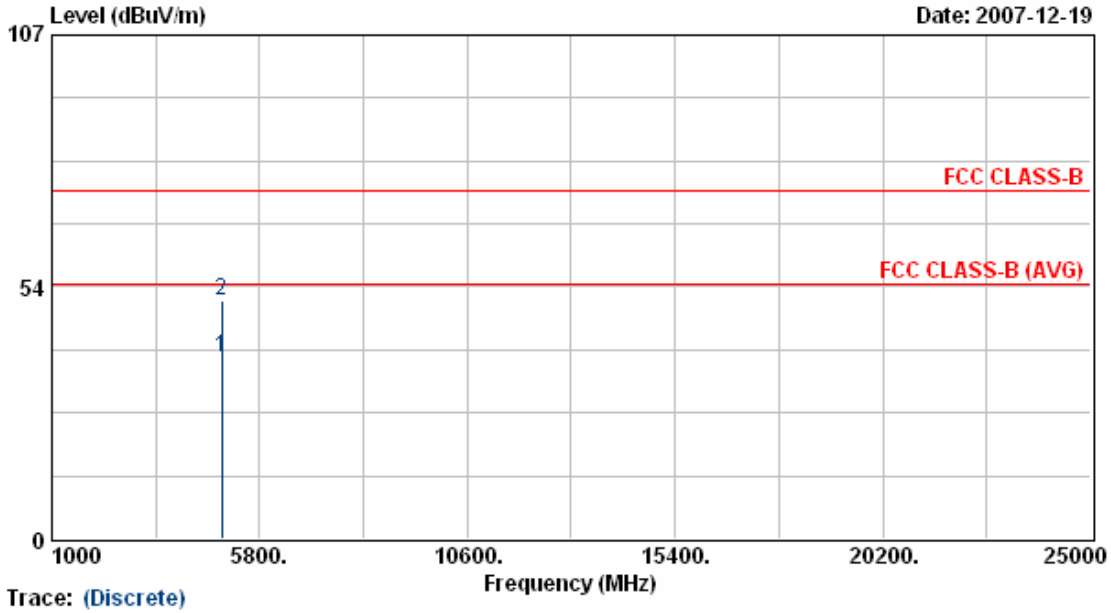
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	30.63	6.10	36.74	54.00	-17.26	Average	100	201
2	4874.13	42.30	6.10	48.40	74.00	-25.60	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



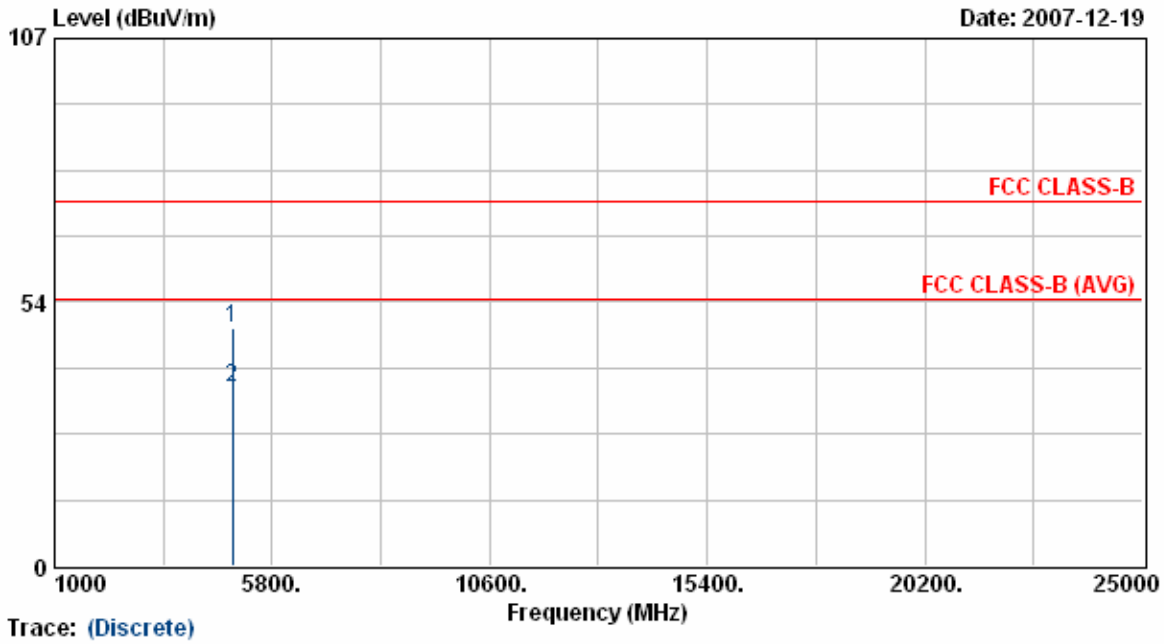
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	32.44	6.23	38.67	54.00	-15.33	Average	100	194
2	4924.13	44.46	6.23	50.69	74.00	-23.31	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11b	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	11 Mbps



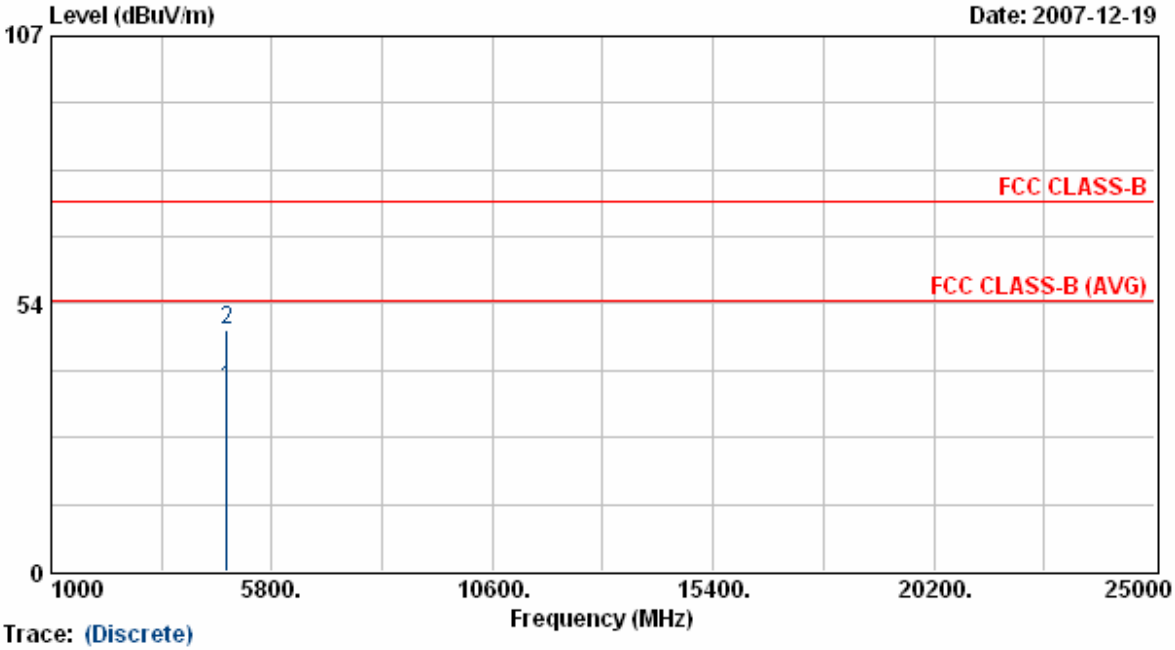
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	42.06	6.23	48.29	74.00	-25.71	Peak	100	201
2	4924.13	30.15	6.23	36.38	54.00	-17.62	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



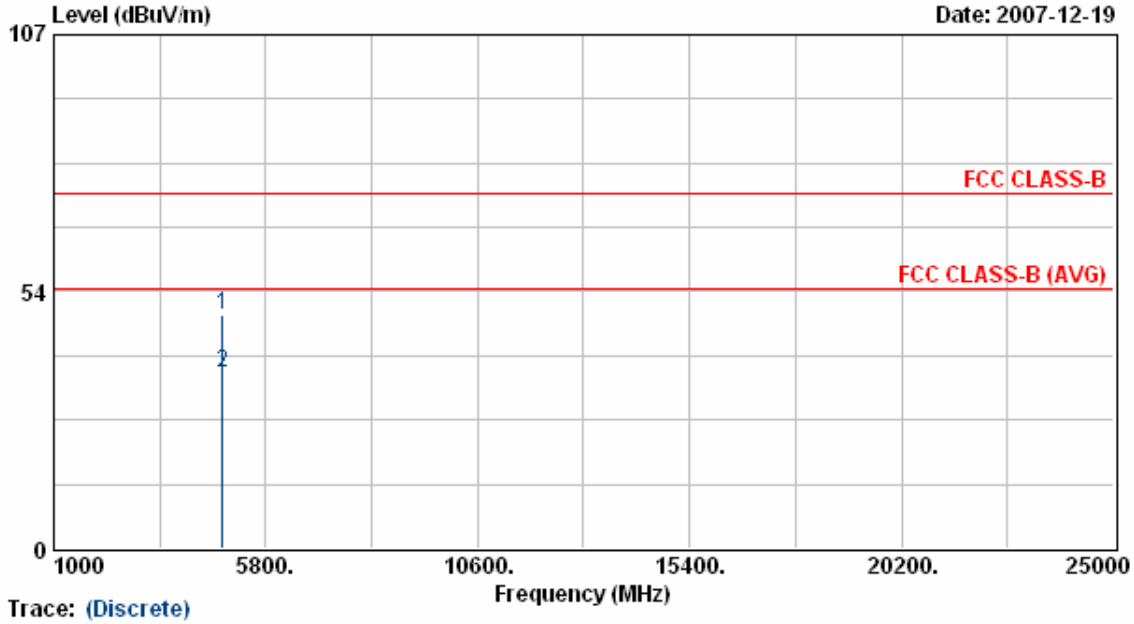
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.25	30.56	5.97	36.53	54.00	-17.47	Average	100	194
2	4824.25	42.44	5.97	48.41	74.00	-25.59	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



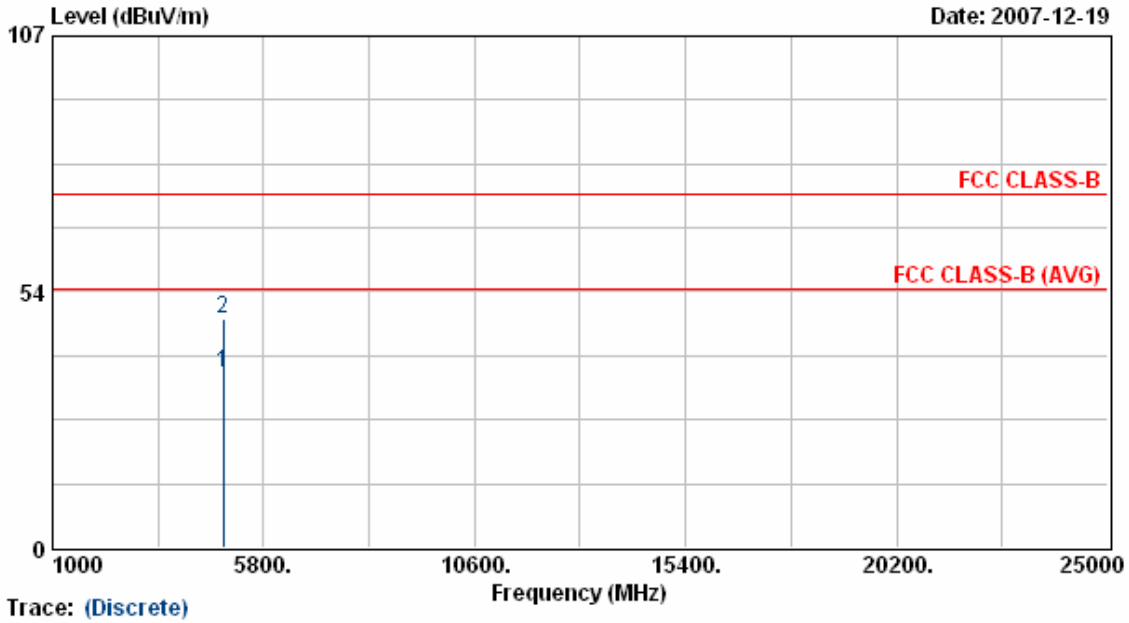
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	42.66	5.97	48.63	74.00	-25.37	Peak	100	201
2	4824.00	30.70	5.97	36.67	54.00	-17.33	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



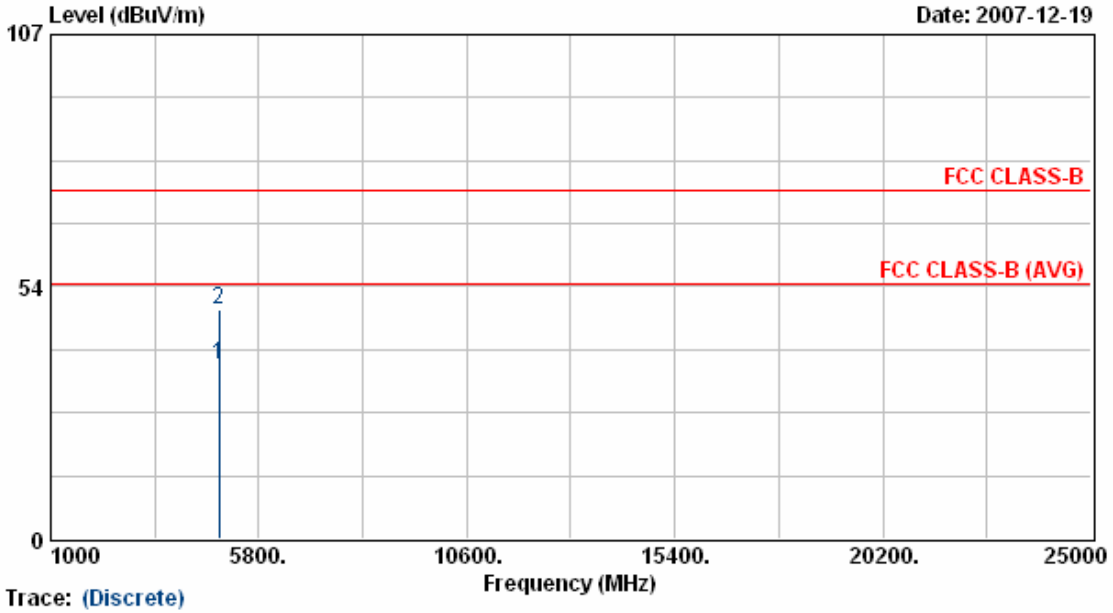
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.88	30.58	6.10	36.68	54.00	-17.32	Average	100	194
2	4873.88	41.88	6.10	47.98	74.00	-26.02	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



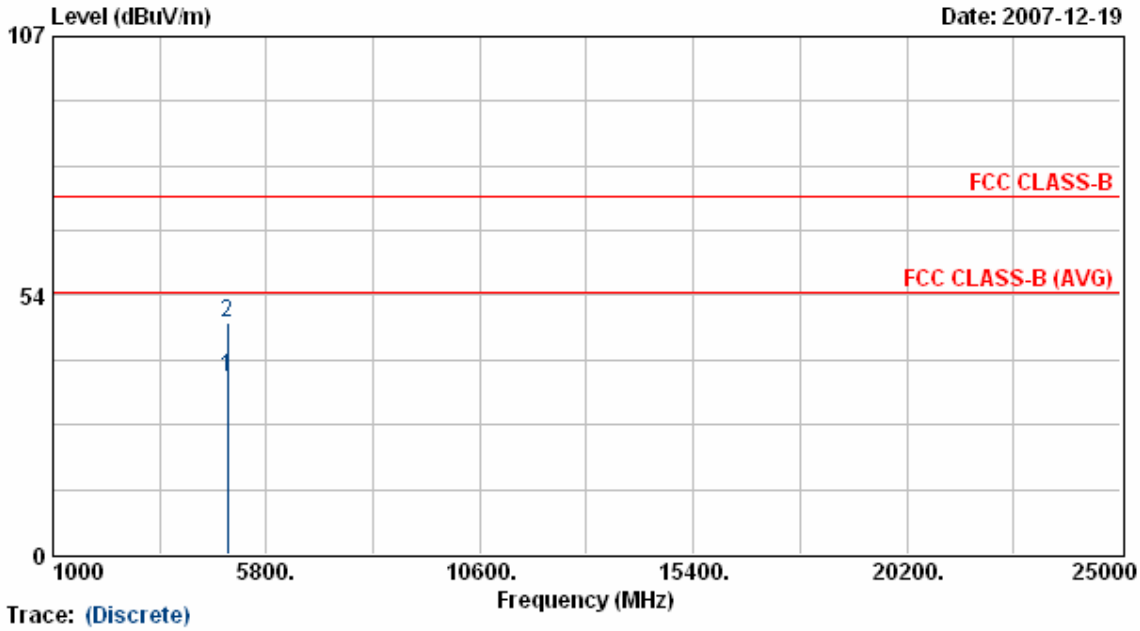
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	30.69	6.10	36.79	54.00	-17.21	Average	100	201
2	4874.00	42.64	6.10	48.74	74.00	-25.26	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



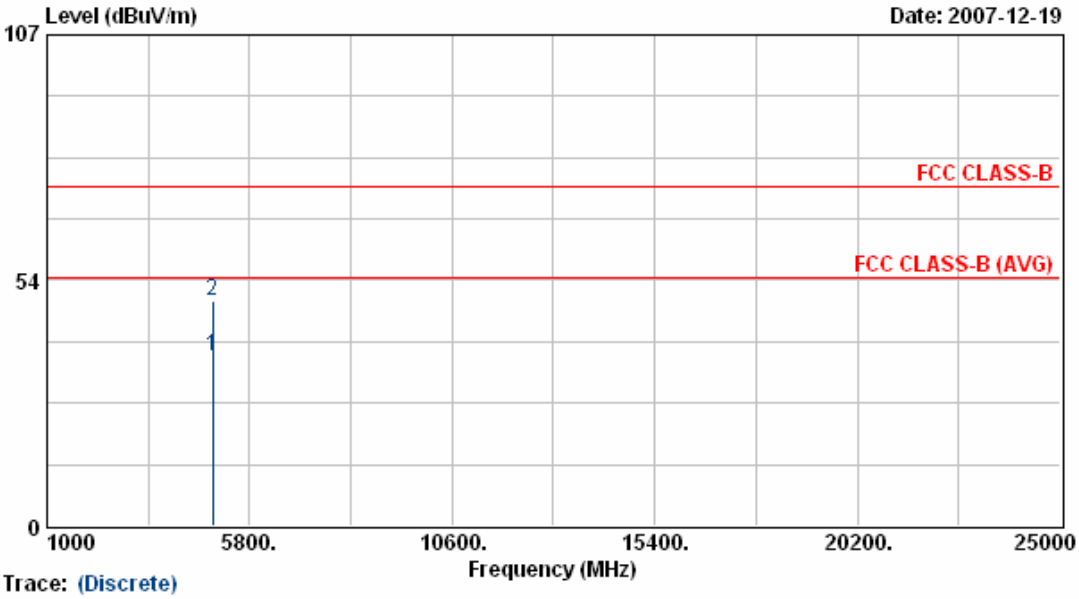
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.88	30.39	6.23	36.62	54.00	-17.38	Average	100	194
2	4923.88	41.79	6.23	48.02	74.00	-25.98	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11g	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6 Mbps



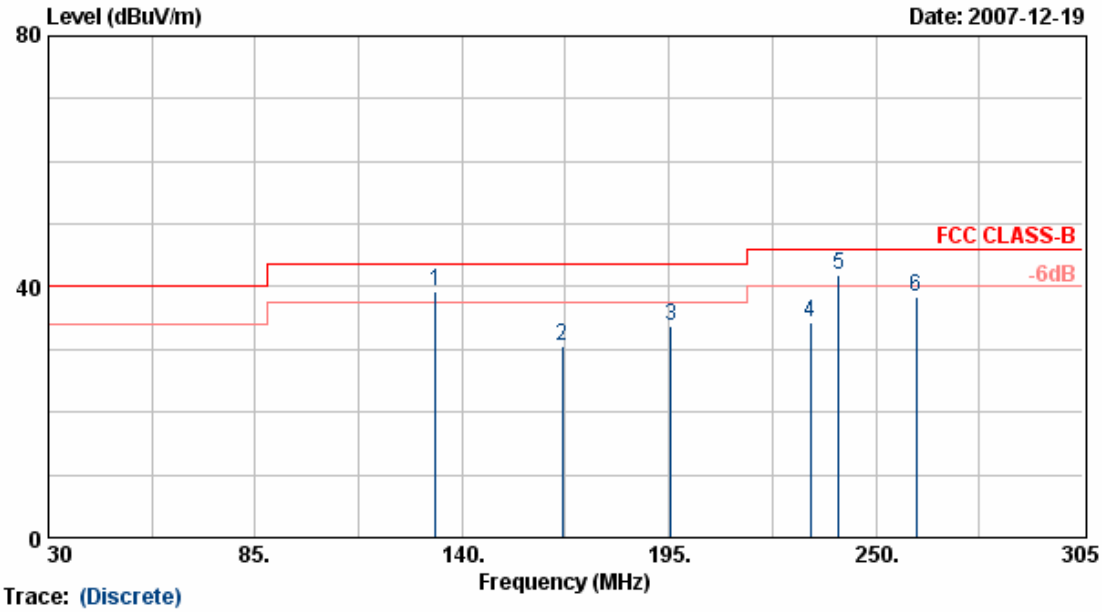
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4922.88	30.67	6.23	36.90	54.00	-17.10	Average	100	201
2	4922.88	42.64	6.23	48.87	74.00	-25.13	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



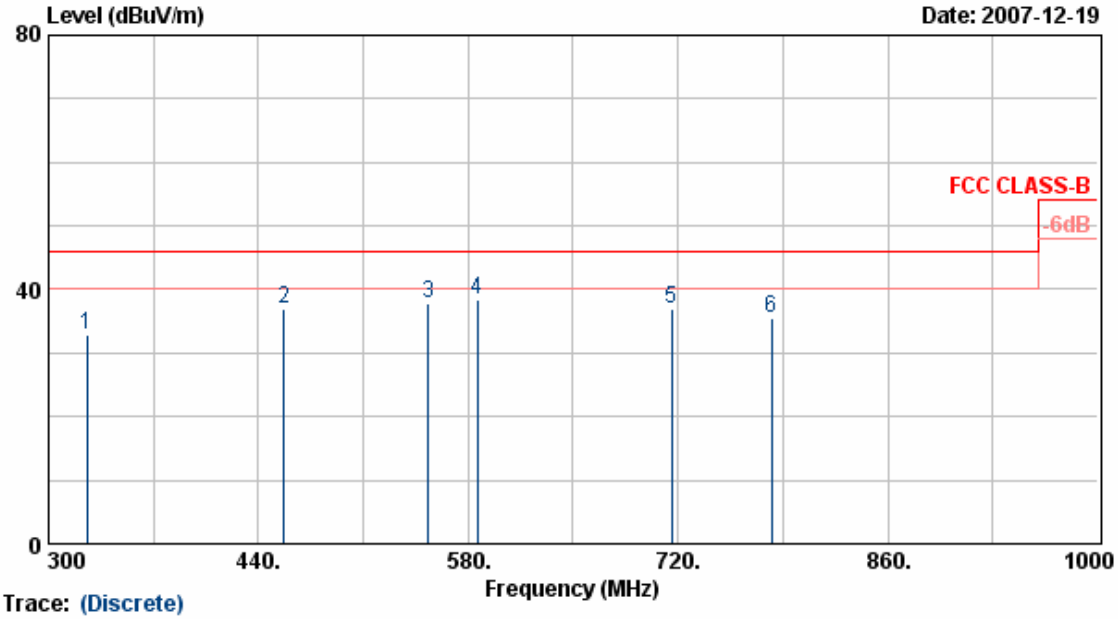
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.37	-12.97	39.40	43.50	-4.10	QP	100	44
2	166.68	44.85	-14.41	30.44	43.50	-13.06	Peak	100	147
3	195.55	46.89	-13.01	33.88	43.50	-9.62	Peak	100	145
4	232.68	46.77	-12.38	34.39	46.00	-11.61	Peak	100	167
5	240.10	54.67	-12.70	41.97	46.00	-4.03	QP	100	166
6	260.73	49.47	-11.17	38.30	46.00	-7.70	Peak	150	111

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



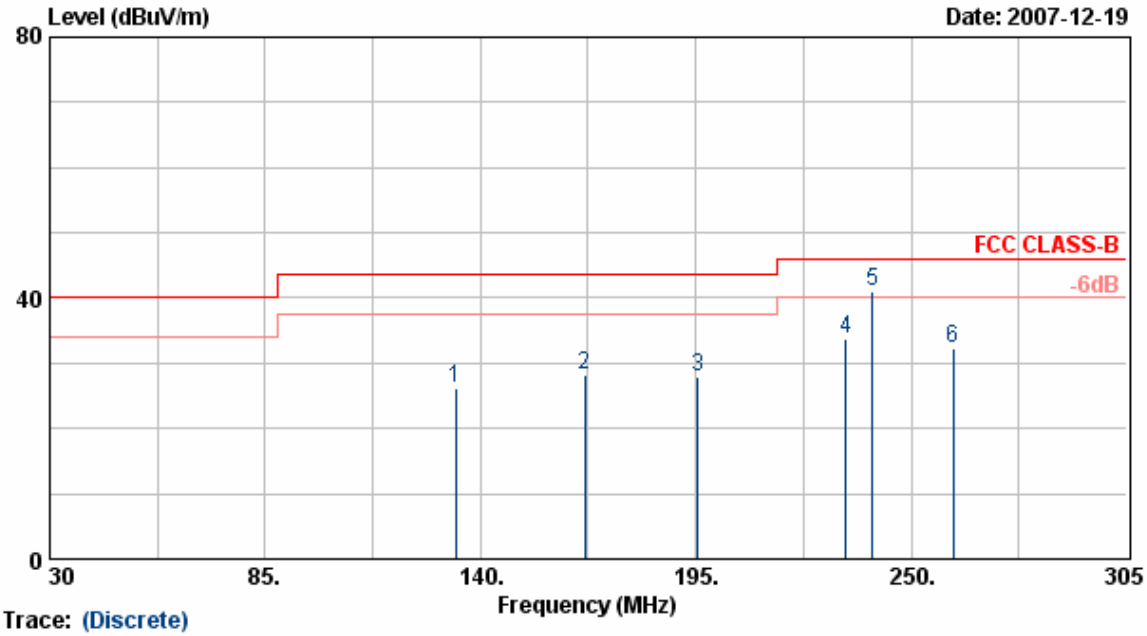
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.67	-11.71	32.96	46.00	-13.04	Peak	100	199
2	456.80	44.87	-7.80	37.07	46.00	-8.93	Peak	100	137
3	553.40	42.56	-4.85	37.70	46.00	-8.30	Peak	100	117
4	586.30	48.14	-9.73	38.41	46.00	-7.59	Peak	100	211
5	715.80	41.97	-5.03	36.94	46.00	-9.06	Peak	100	136
6	782.30	39.87	-4.31	35.56	46.00	-10.44	Peak	100	110

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



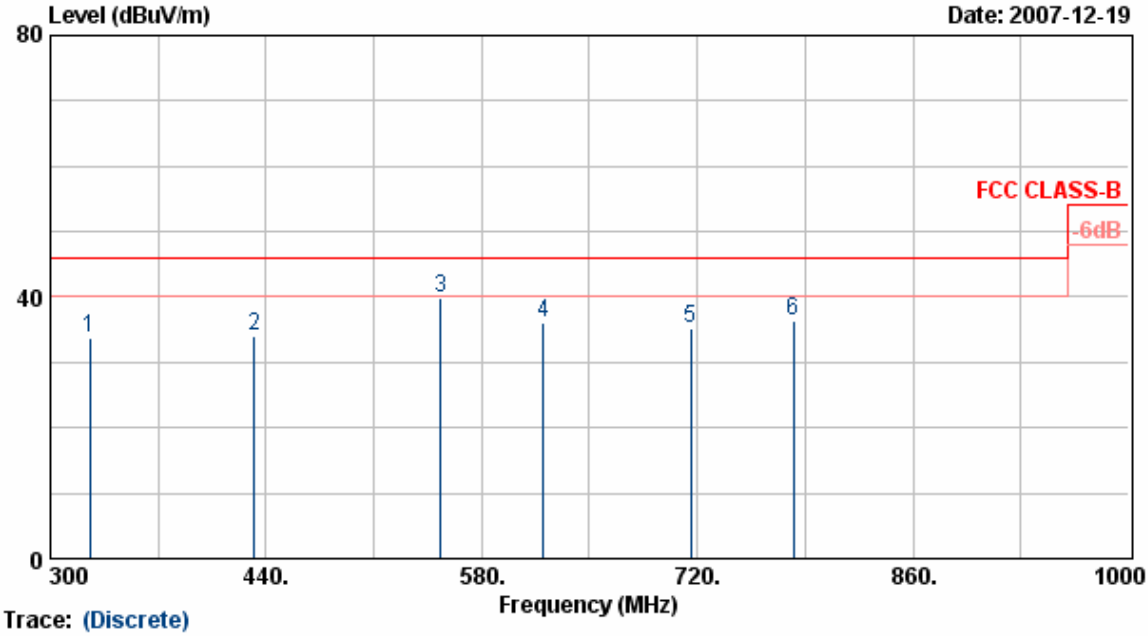
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.67	-19.48	26.19	43.50	-17.31	Peak	100	127
2	166.68	48.34	-20.20	28.14	43.50	-15.36	Peak	100	117
3	195.55	47.69	-19.74	27.95	43.50	-15.55	Peak	100	217
4	233.23	50.55	-16.87	33.69	46.00	-12.31	Peak	100	138
5	240.10	58.84	-17.80	41.04	46.00	-4.96	QP	100	167
6	260.73	46.90	-14.47	32.43	46.00	-13.57	Peak	100	197

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



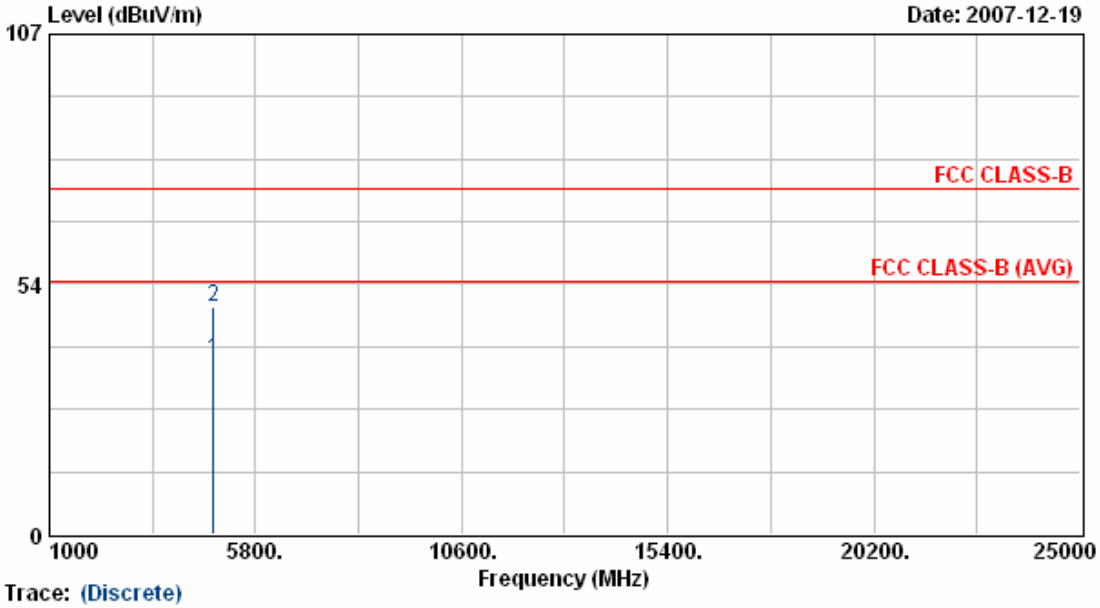
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.47	-13.72	33.75	46.00	-12.25	Peak	100	217
2	432.30	41.88	-7.88	34.00	46.00	-12.00	Peak	100	211
3	553.40	43.84	-4.03	39.81	46.00	-6.19	Peak	100	211
4	619.90	40.42	-4.41	36.00	46.00	-10.00	Peak	100	114
5	715.80	43.37	-8.16	35.21	46.00	-10.79	Peak	100	164
6	782.30	41.99	-5.58	36.40	46.00	-9.60	Peak	100	41

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



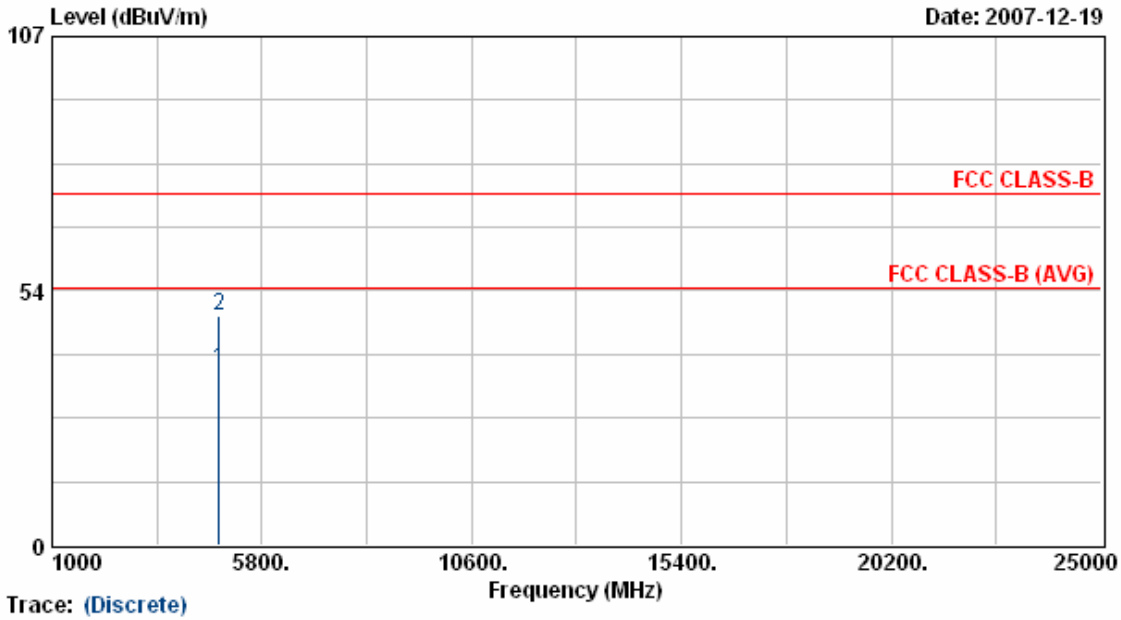
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.13	31.31	5.97	37.29	54.00	-16.71	Average	100	194
2	4824.13	42.55	5.97	48.53	74.00	-25.47	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	1	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



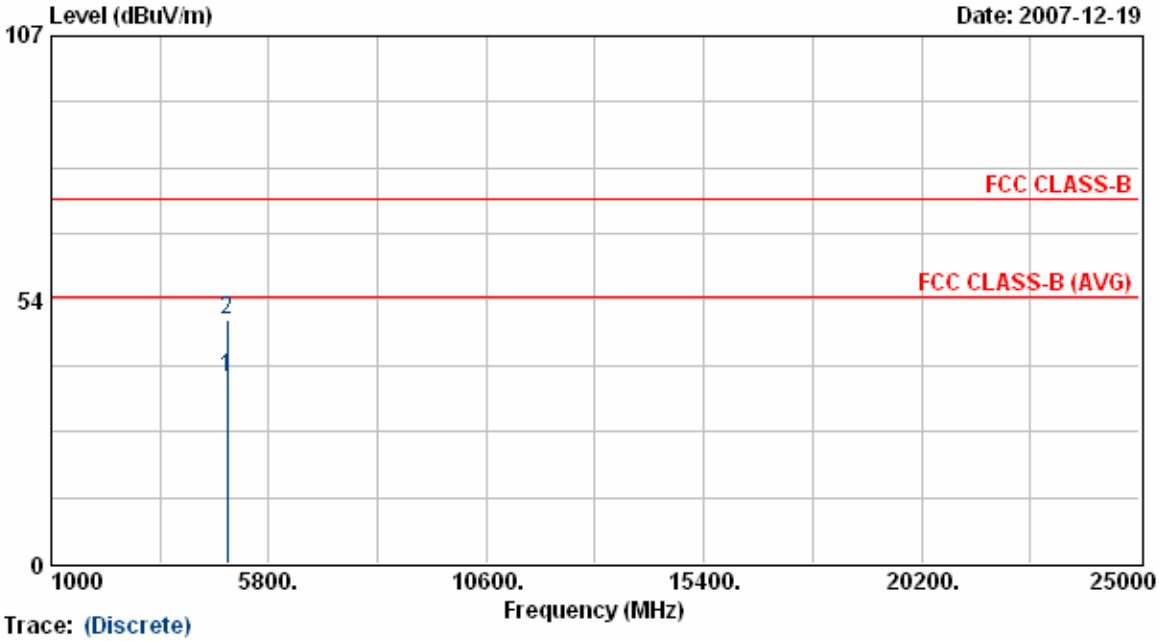
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.88	30.93	5.97	36.90	54.00	-17.10	Average	100	201
2	4823.88	42.44	5.97	48.41	74.00	-25.59	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



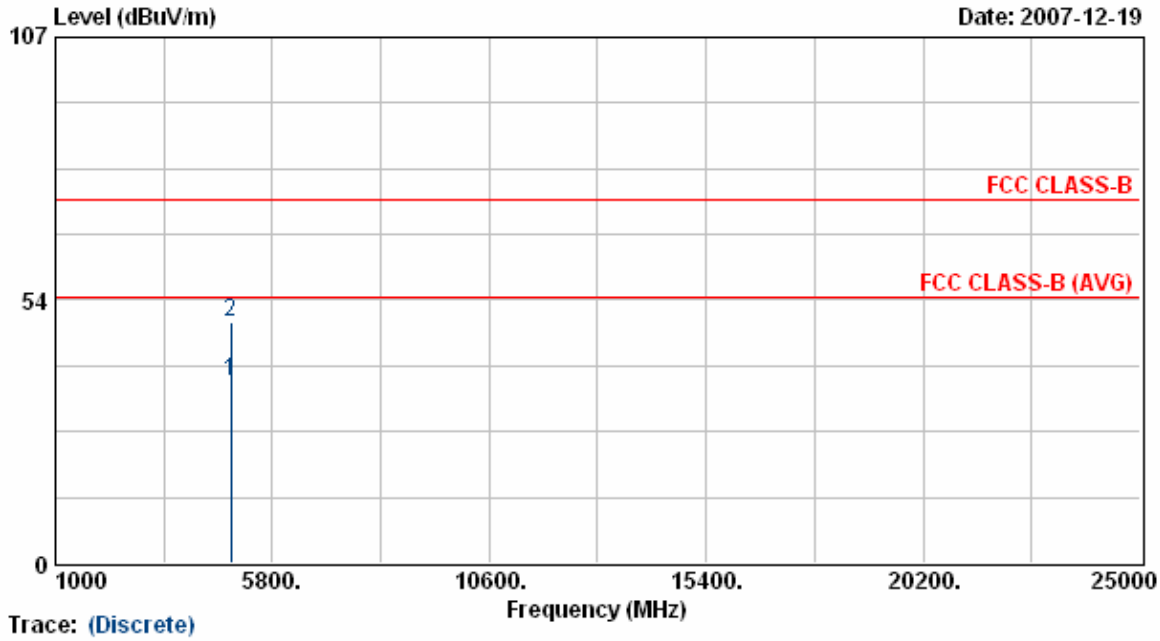
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	31.66	6.10	37.76	54.00	-16.24	Average	100	194
2	4874.13	43.37	6.10	49.47	74.00	-24.53	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



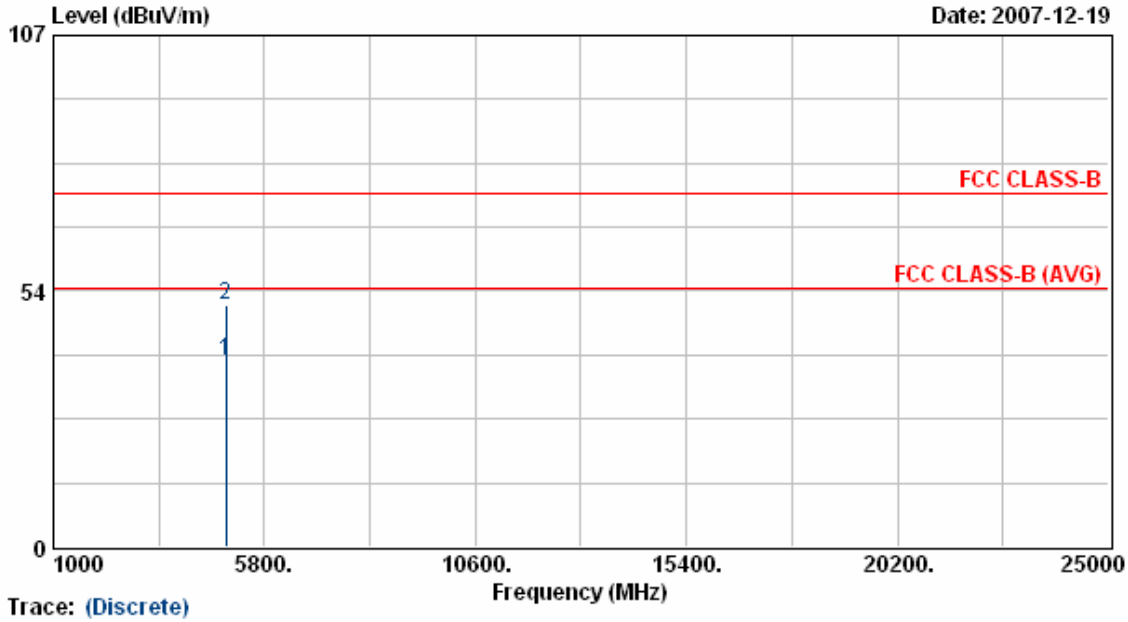
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.13	30.88	6.10	36.98	54.00	-17.02	Average	100	201
2	4874.13	42.87	6.10	48.97	74.00	-25.03	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



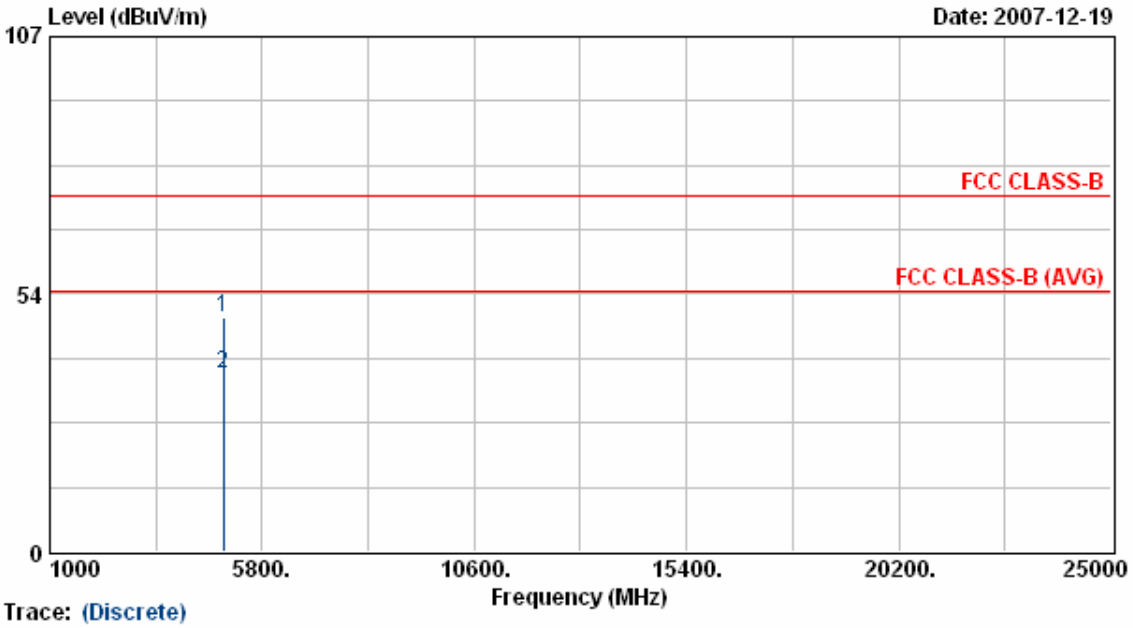
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	32.67	6.23	38.90	54.00	-15.10	Average	100	194
2	4924.13	44.23	6.23	50.46	74.00	-23.54	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	11	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 20MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	6.5 Mbps



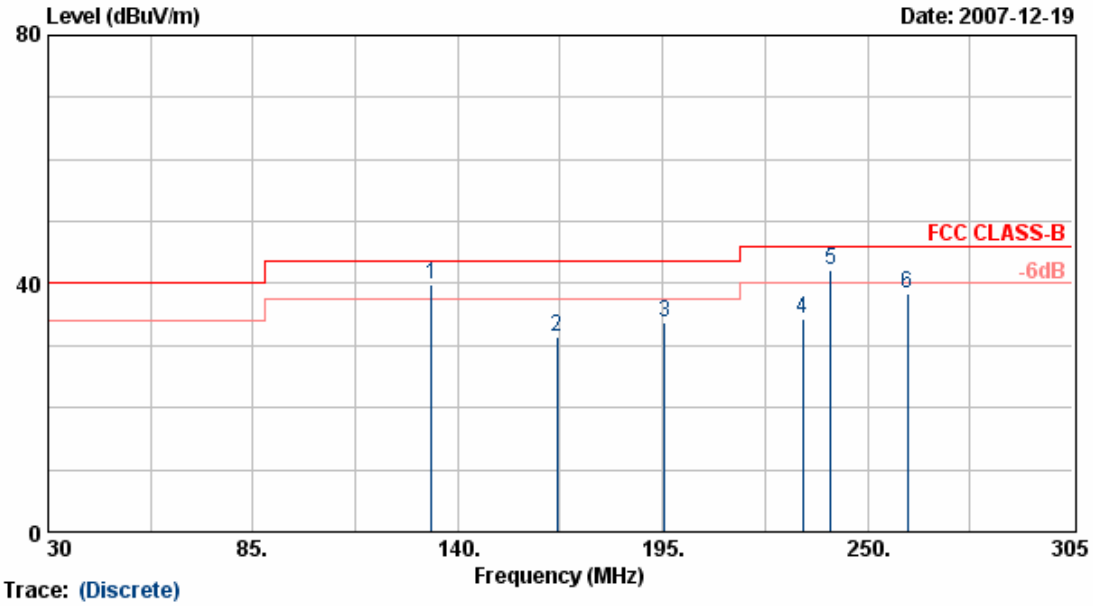
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.13	42.30	6.23	48.54	74.00	-25.46	Peak	100	201
2	4924.13	30.74	6.23	36.97	54.00	-17.03	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



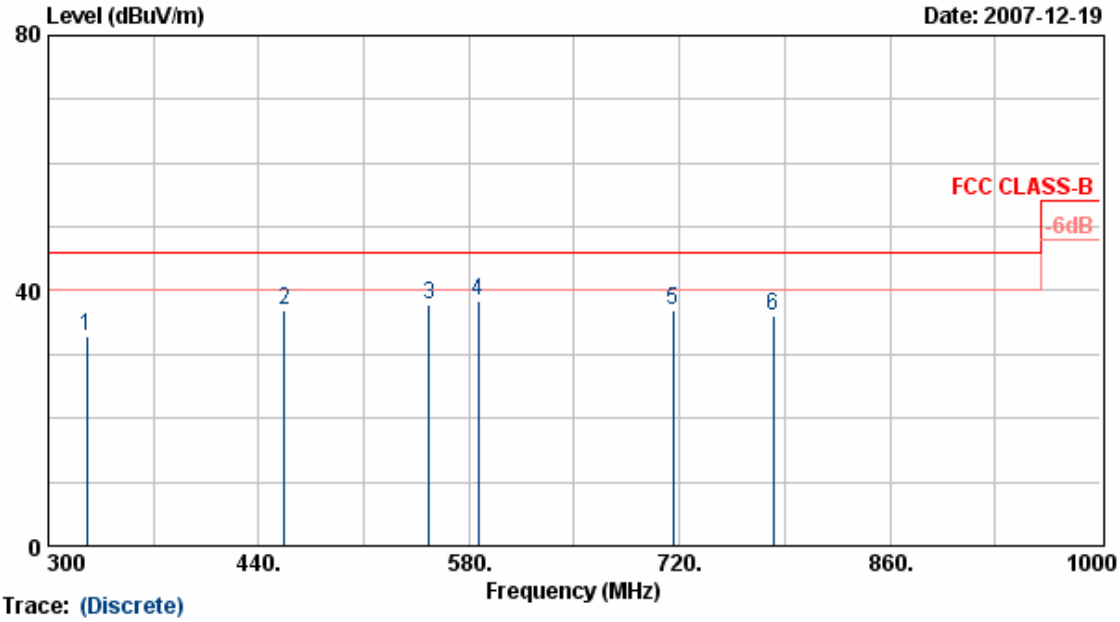
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.79	-12.97	39.82	43.50	-3.68	QP	100	44
2	166.68	45.80	-14.41	31.40	43.50	-12.10	Peak	100	147
3	195.55	46.66	-13.01	33.66	43.50	-9.84	Peak	100	145
4	232.68	46.67	-12.38	34.29	46.00	-11.71	Peak	100	167
5	240.10	54.77	-12.70	42.07	46.00	-3.93	QP	100	166
6	260.73	49.43	-11.17	38.26	46.00	-7.74	Peak	150	111

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



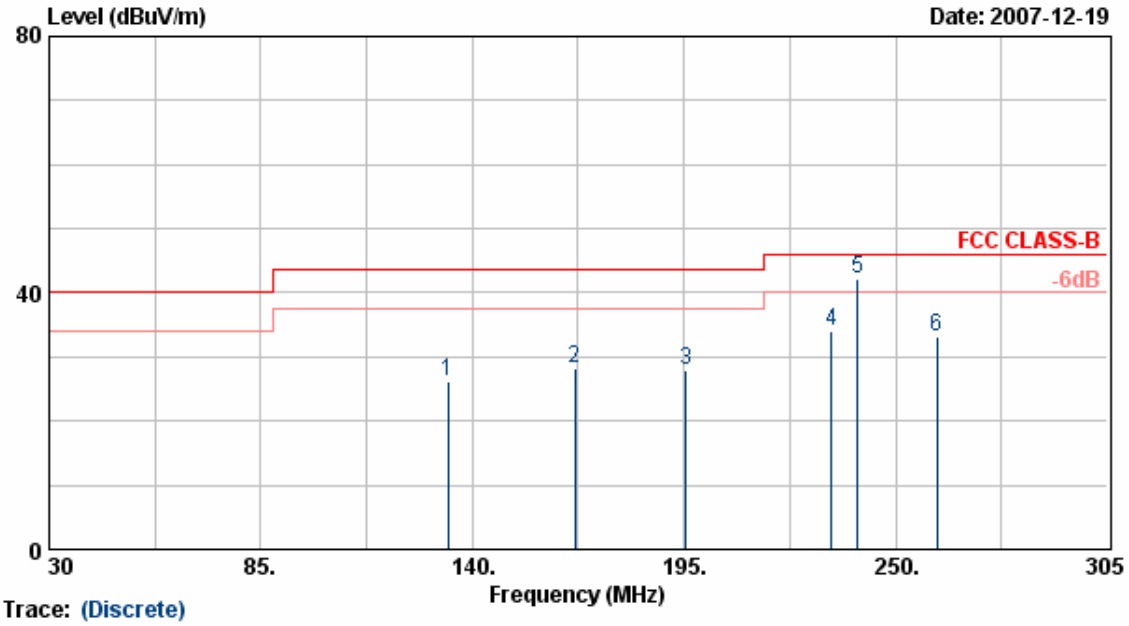
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.67	-11.71	32.95	46.00	-13.05	Peak	100	199
2	456.80	44.64	-7.80	36.84	46.00	-9.16	Peak	100	137
3	553.40	42.77	-4.85	37.91	46.00	-8.09	Peak	100	117
4	586.30	48.18	-9.73	38.45	46.00	-7.55	Peak	100	211
5	715.80	41.87	-5.03	36.84	46.00	-9.16	Peak	100	136
6	782.30	40.49	-4.31	36.18	46.00	-9.82	Peak	100	110

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC		Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive		Temperature	:	22 °C
Operation Channel	:	3		Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz		Atmospheric Pressure	:	1030 hPa
Memo	:			Rate	:	13.5 Mbps



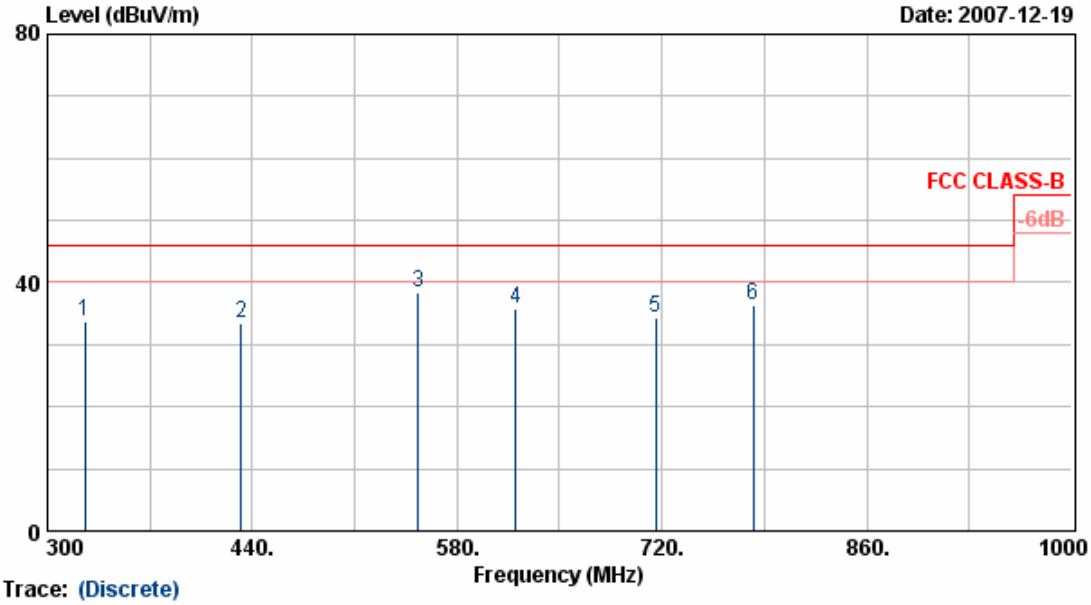
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.75	-19.48	26.26	43.50	-17.24	Peak	100	127
2	166.68	48.56	-20.20	28.36	43.50	-15.14	Peak	100	117
3	195.55	47.67	-19.74	27.93	43.50	-15.57	Peak	100	217
4	233.23	50.76	-16.87	33.90	46.00	-12.10	Peak	100	138
5	240.10	59.97	-17.80	42.17	46.00	-3.83	QP	100	167
6	260.73	47.60	-14.47	33.13	46.00	-12.87	Peak	100	197

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



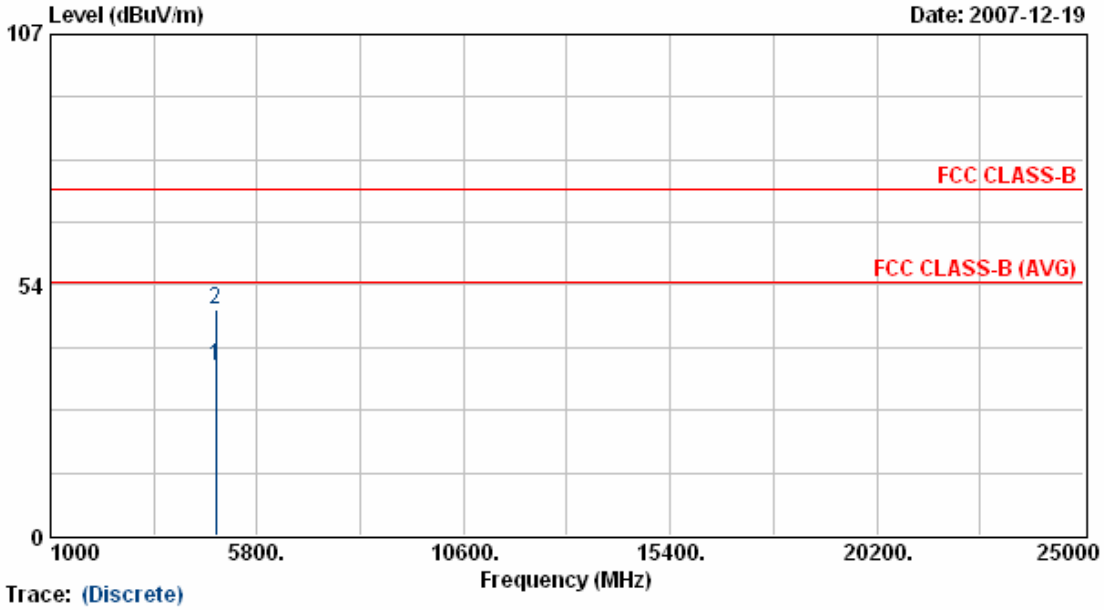
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.57	-13.72	33.85	46.00	-12.15	Peak	100	217
2	432.30	41.45	-7.88	33.56	46.00	-12.44	Peak	100	211
3	553.40	42.44	-4.03	38.41	46.00	-7.59	Peak	100	211
4	619.90	40.32	-4.41	35.90	46.00	-10.10	Peak	100	114
5	715.80	42.36	-8.16	34.20	46.00	-11.80	Peak	100	164
6	782.30	41.94	-5.58	36.35	46.00	-9.65	Peak	100	41

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. According to technical experiences,all spurious emission of 802.11MIMO mode at channel 3,6,9 are almost the same below 1GHz,so that the channel 3 was chosen as representative in final test.
5. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



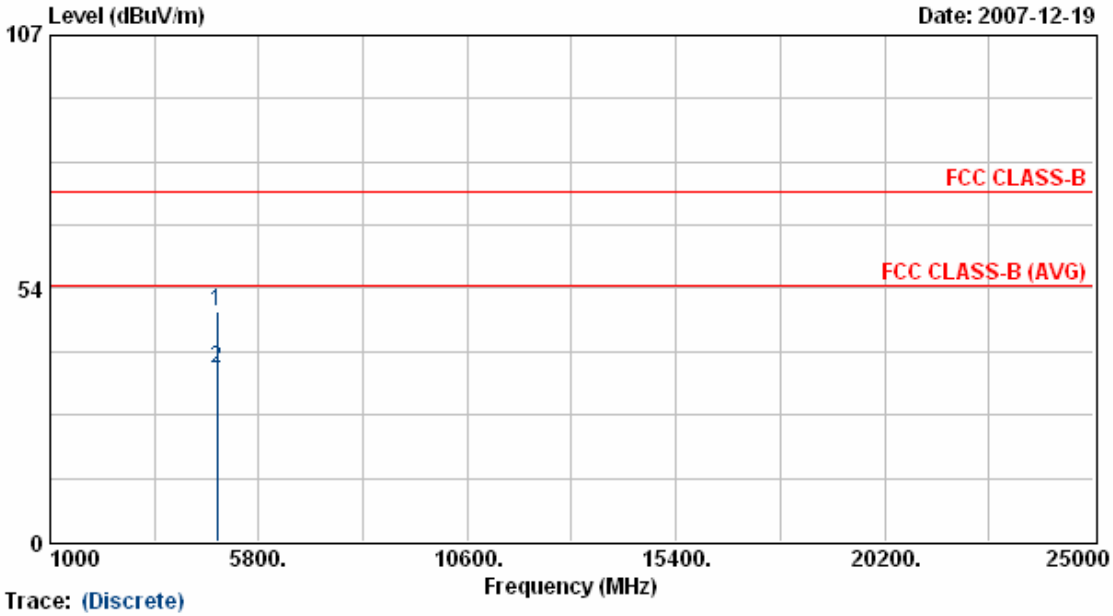
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.25	30.23	6.03	36.25	54.00	-17.75	Average	100	194
2	4844.25	42.28	6.03	48.30	74.00	-25.70	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	3	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



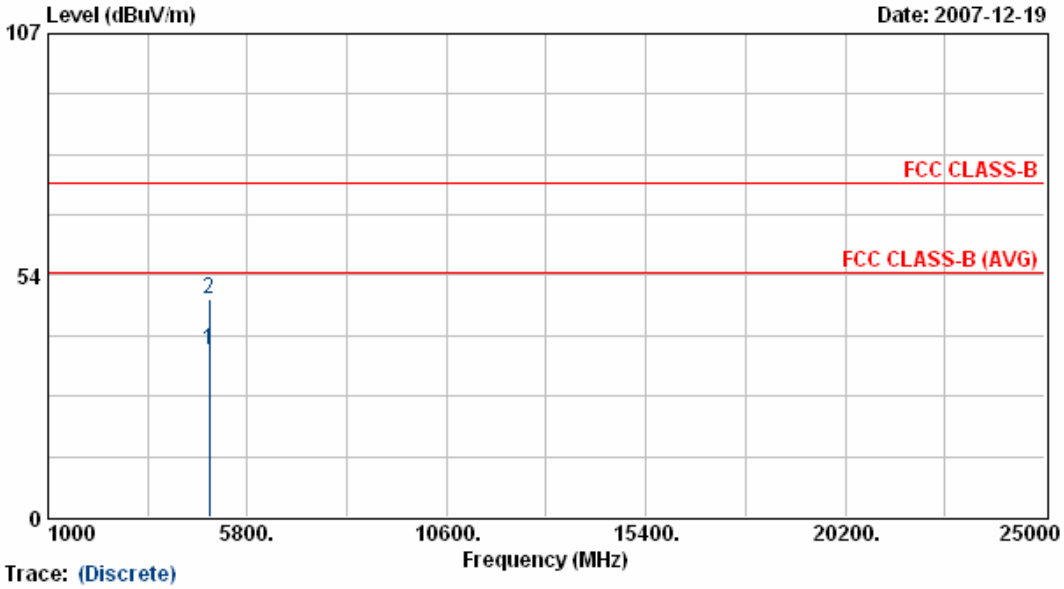
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.00	42.57	6.02	48.59	74.00	-25.41	Peak	100	201
2	4844.00	30.65	6.02	36.67	54.00	-17.33	Average	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



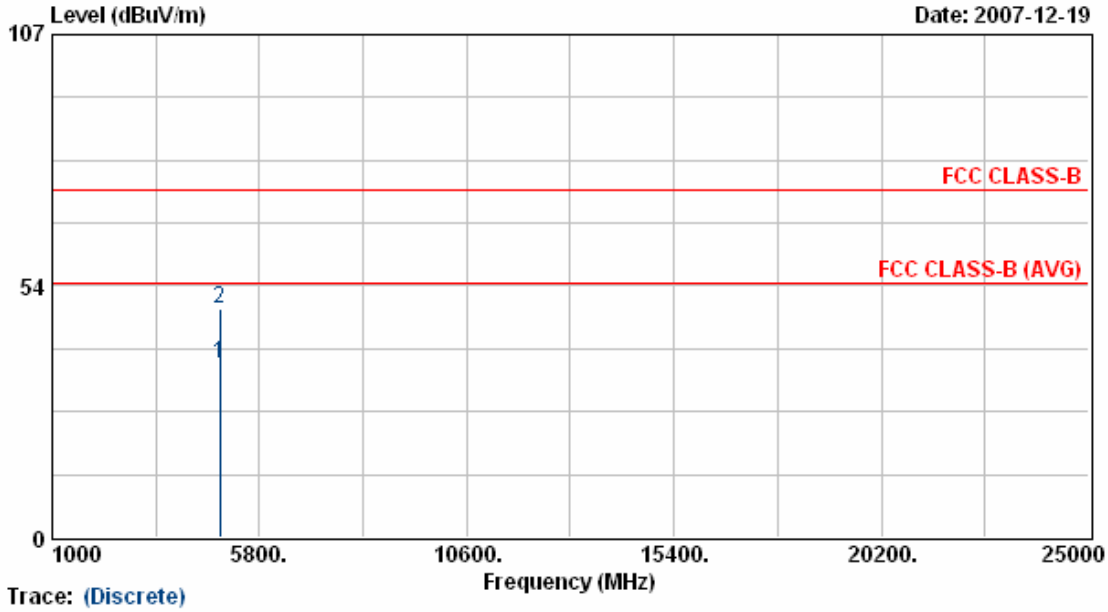
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.88	30.67	6.10	36.77	54.00	-17.23	Average	100	194
2	4873.88	42.33	6.10	48.43	74.00	-25.57	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	6	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



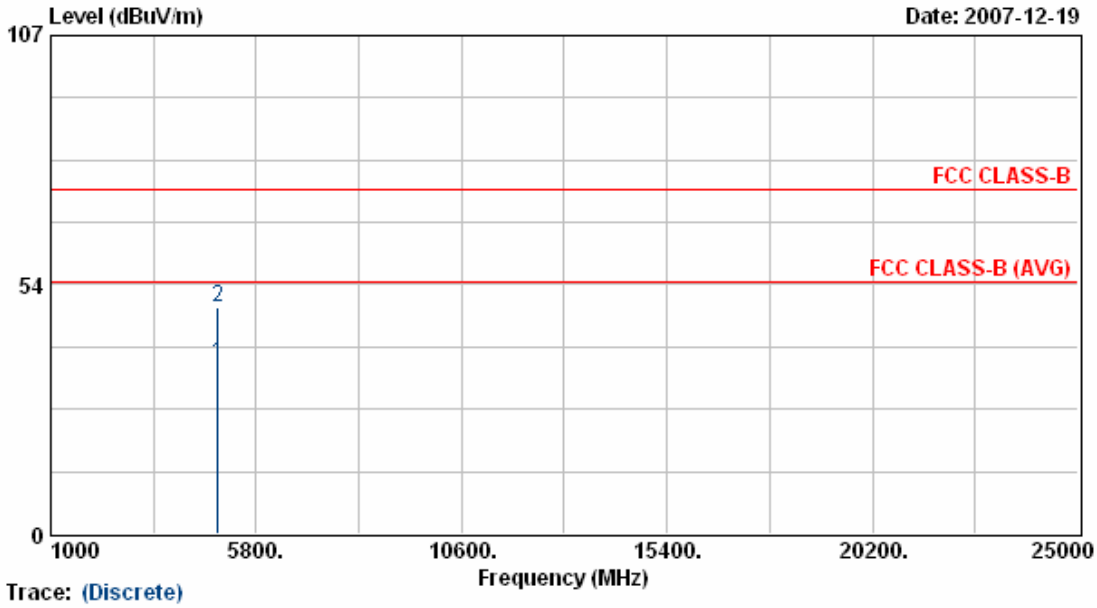
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	30.68	6.10	36.78	54.00	-17.22	Average	100	201
2	4874.00	42.56	6.10	48.66	74.00	-25.34	Peak	100	201

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.

Power	:	DC 5V from PC	Pol/Phase	:	VERTICAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	9	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



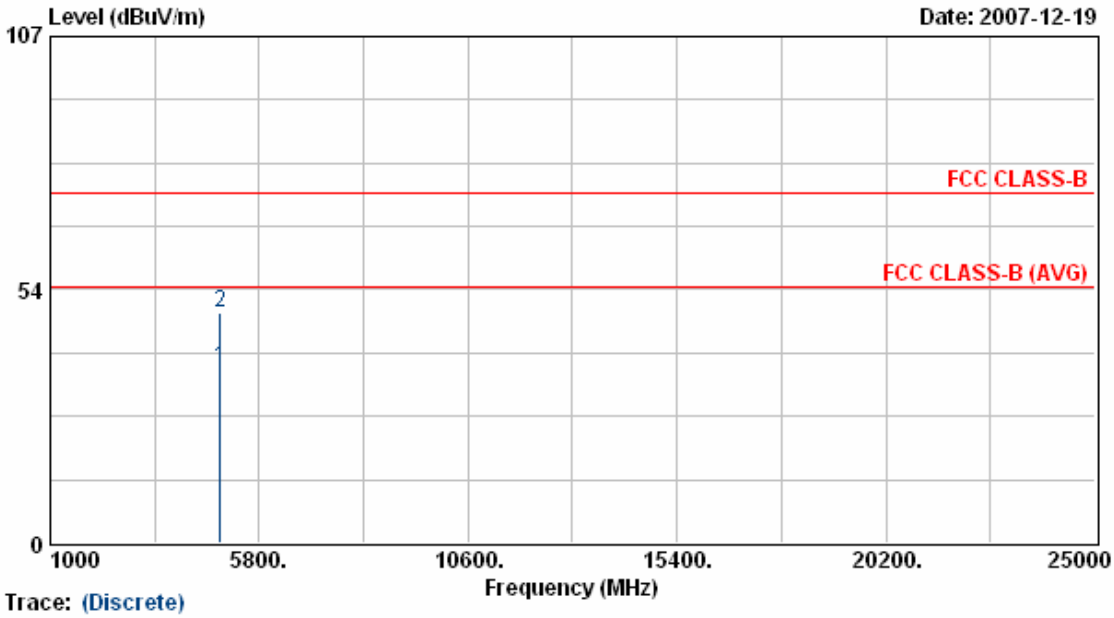
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4903.88	30.46	6.18	36.64	54.00	-17.36	Average	100	194
2	4903.88	42.29	6.18	48.47	74.00	-25.53	Peak	100	194

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.

Power	:	DC 5V from PC	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	Transmit / Receive	Temperature	:	22 °C
Operation Channel	:	9	Humidity	:	70 %
Modulation Type	:	802.11n draft 2.0, 40MHz	Atmospheric Pressure	:	1030 hPa
Memo	:		Rate	:	13.5 Mbps



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4902.88	30.76	6.18	36.93	54.00	-17.07	Average	100	201
2	4902.88	42.56	6.18	48.74	74.00	-25.26	Peak	100	201

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.

Test engineer: Ben

6. 6dB Bandwidth Measurement Data (For 802.11b/g device)

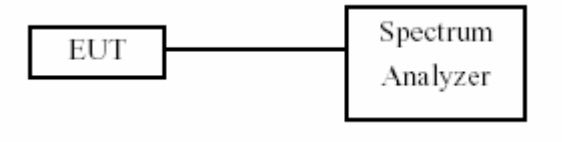
6.1 Test Limit

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	FSP40	R&S	10047	2007/01/23	2008/01/22

6.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	11.10
06	2437	11.10
11	2462	11.10

(2) Modulation Standard: IEEE 802.11g (6Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	16.30
06	2437	16.30
11	2462	16.40

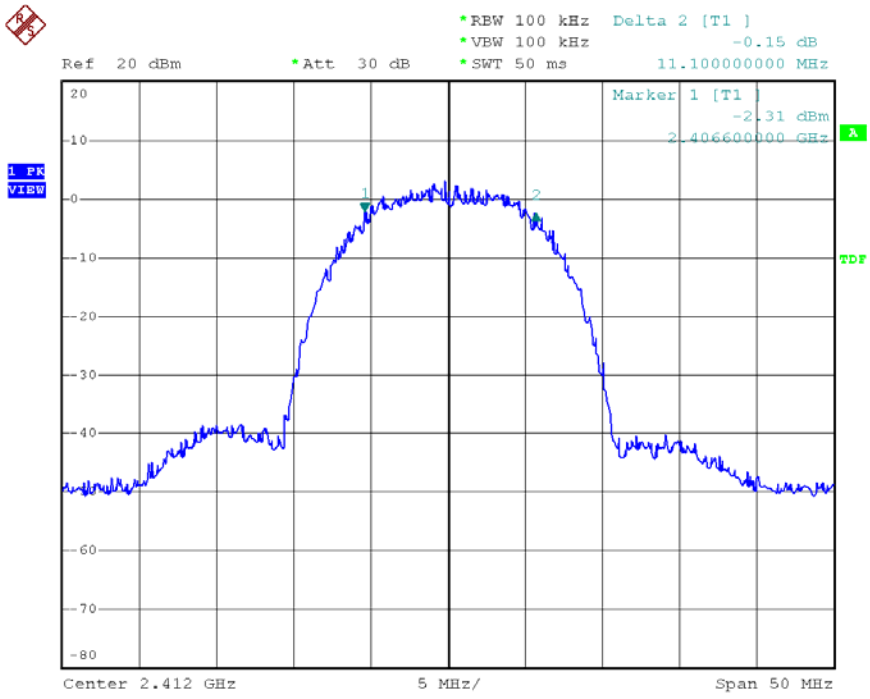
(3) Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
01	2412	17.6	17.3
06	2437	17.7	17.5
11	2462	17.6	17.6

(4) Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

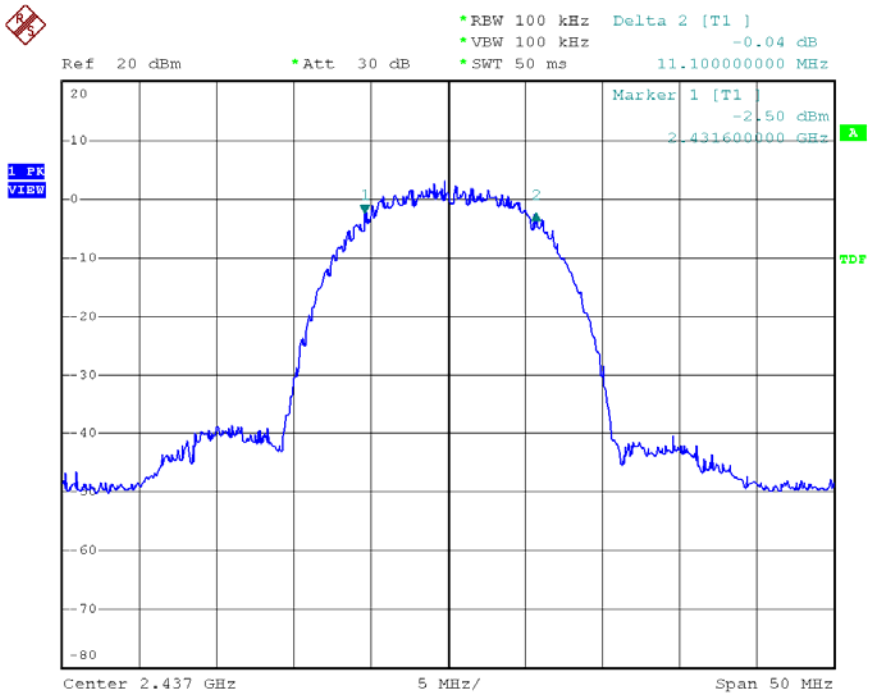
Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
03	2422	36.40	36.40
06	2437	35.00	36.60
09	2452	35.40	36.60

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



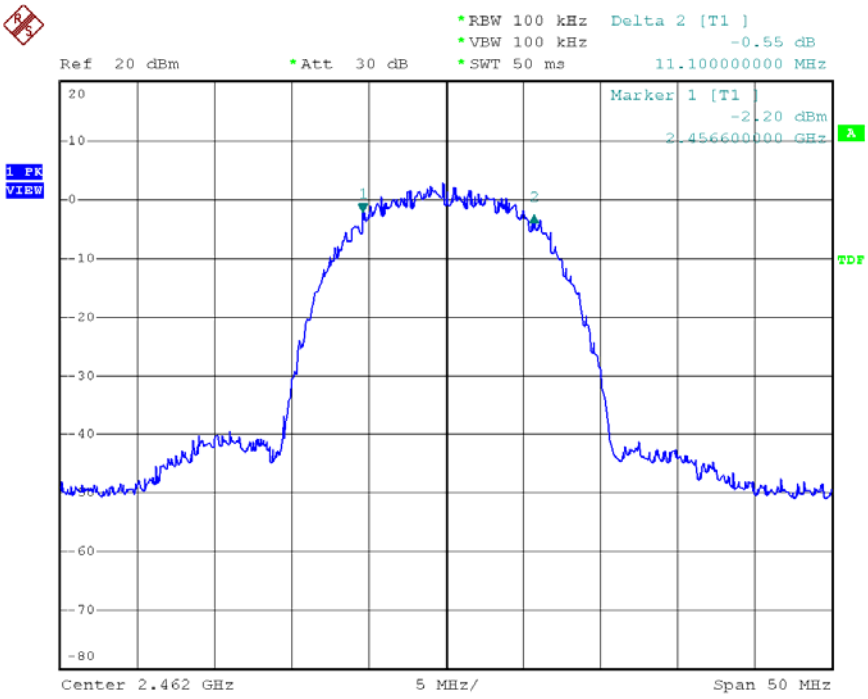
Date: 20.DEC.2007 21:39:58

Channel: 06



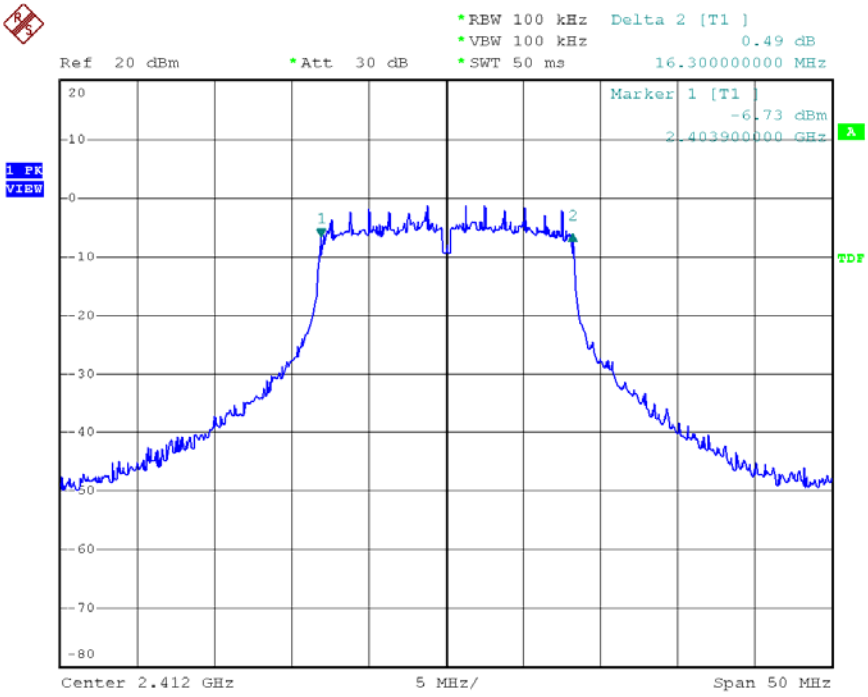
Date: 20.DEC.2007 21:41:37

Channel: 11



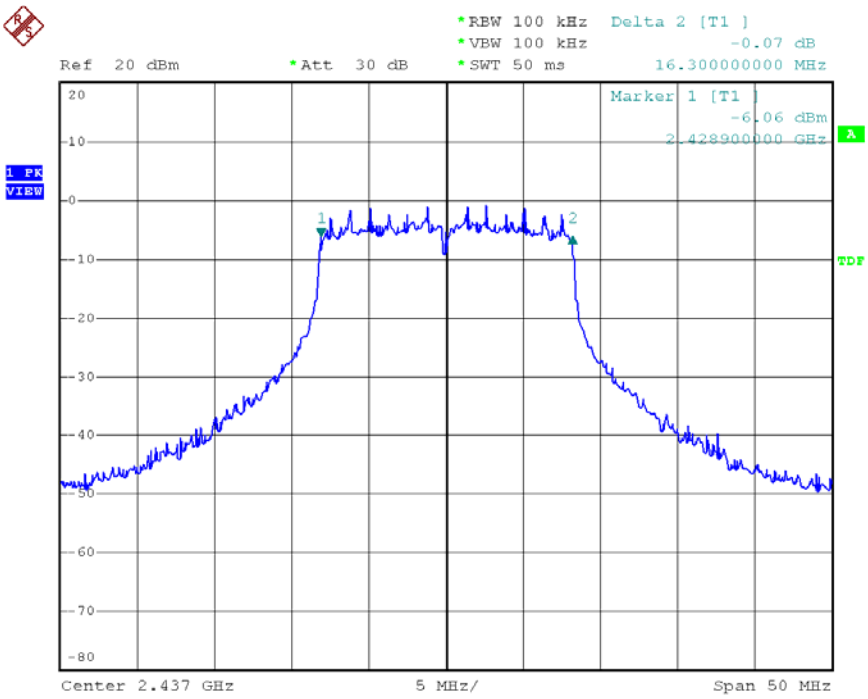
Date: 20.DEC.2007 21:43:07

Modulation Standard:802.11g (6Mbps)
Channel: 01



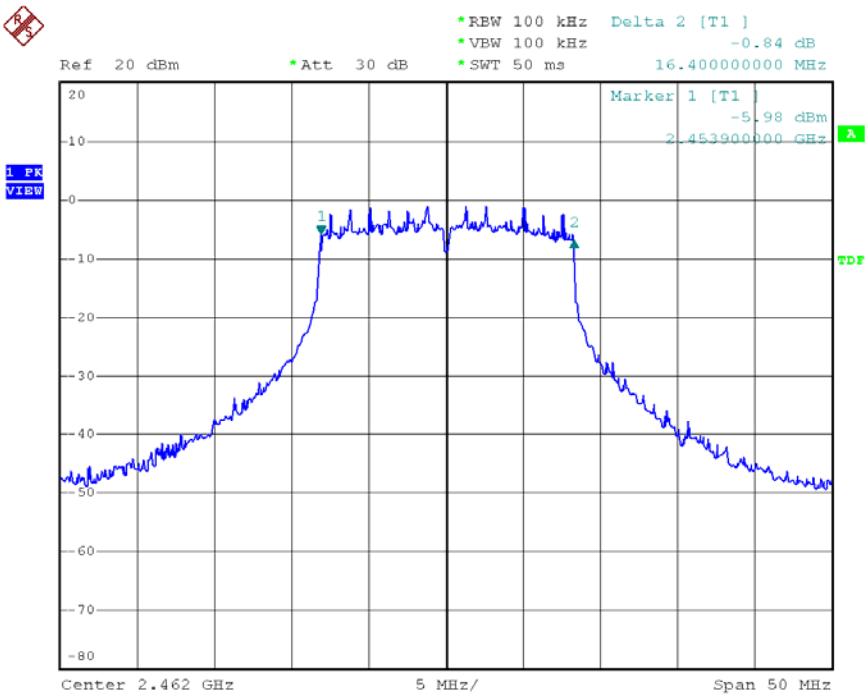
Date: 20.DEC.2007 21:50:19

Channel: 06



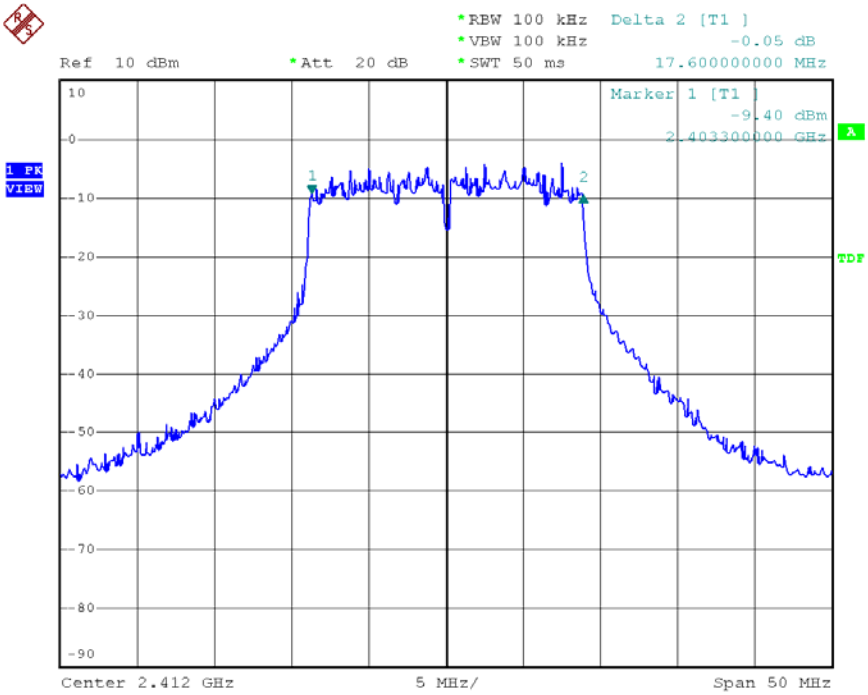
Date: 20.DEC.2007 21:48:36

Channel: 11



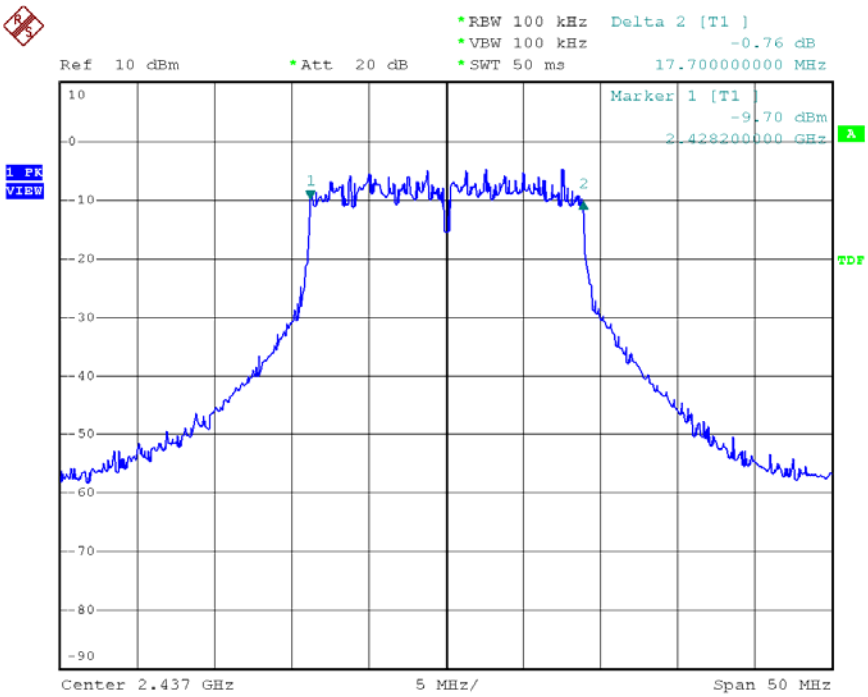
Date: 20.DEC.2007 21:45:16

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
Channel: 01



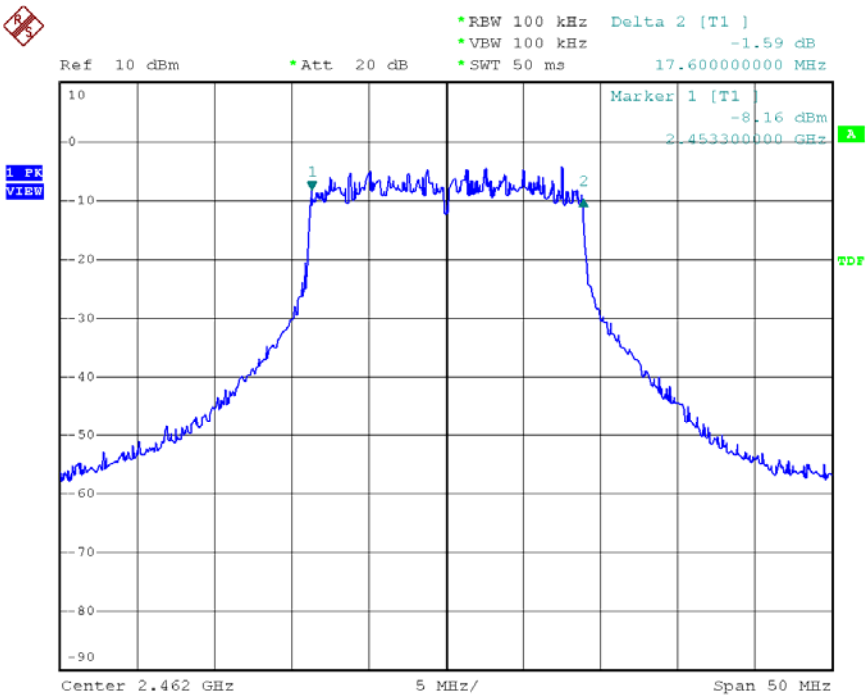
Date: 20.DEC.2007 22:36:31

Channel: 06



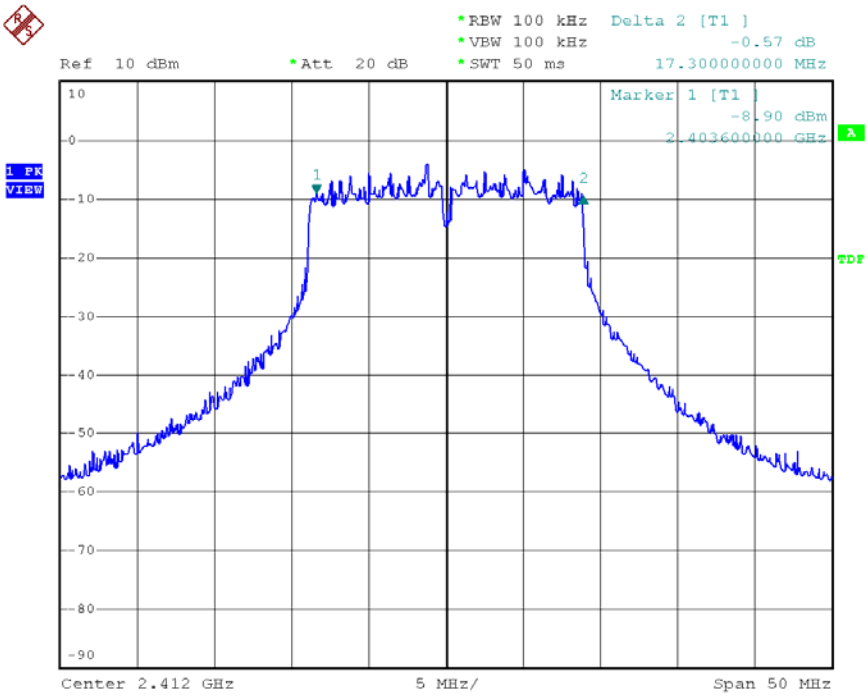
Date: 20.DEC.2007 22:33:12

Channel: 11



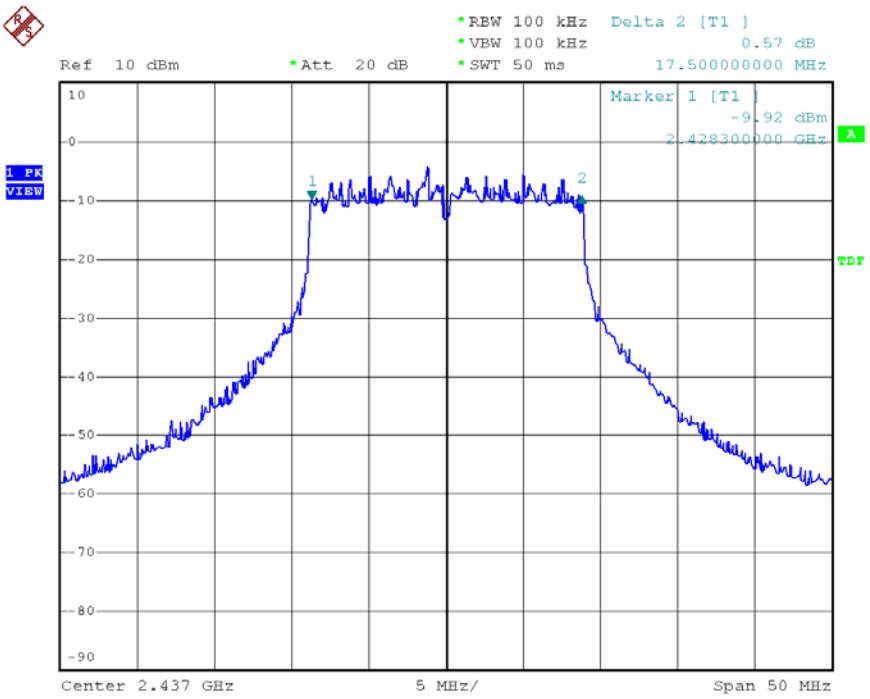
Date: 20.DEC.2007 22:27:06

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
Channel: 01



Date: 20.DEC.2007 22:37:49

Channel: 06



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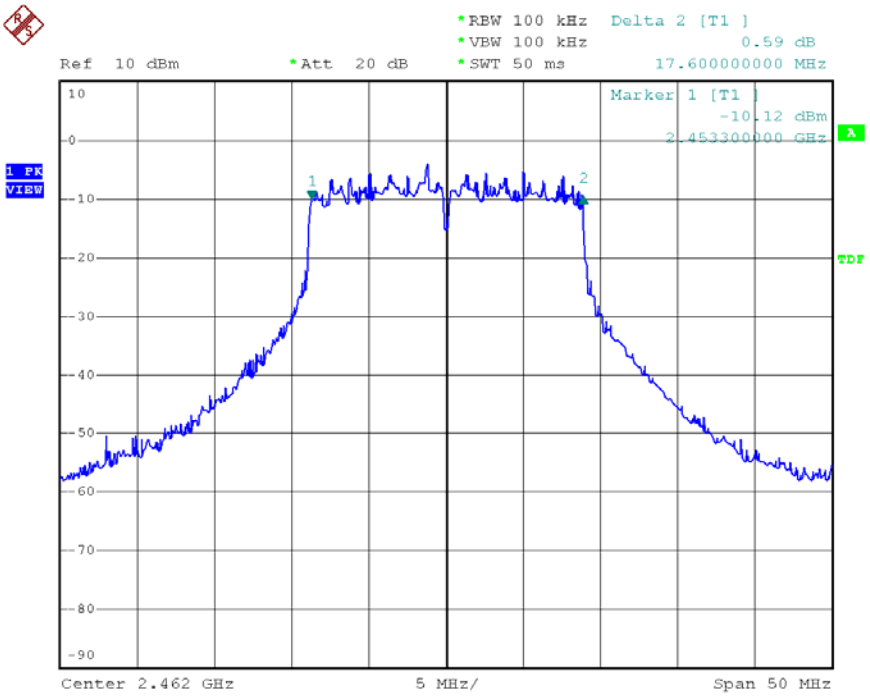
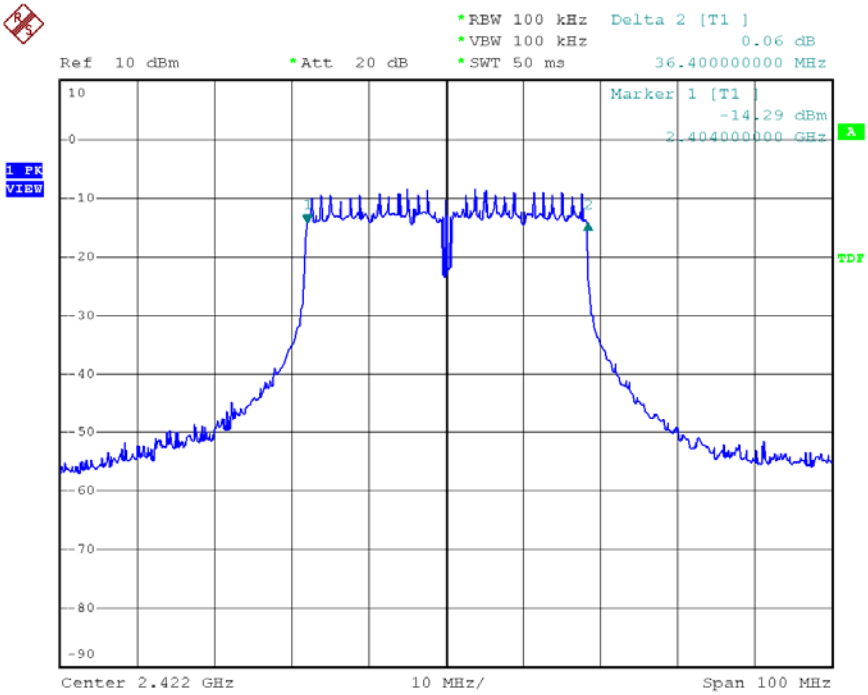
Channel: 11



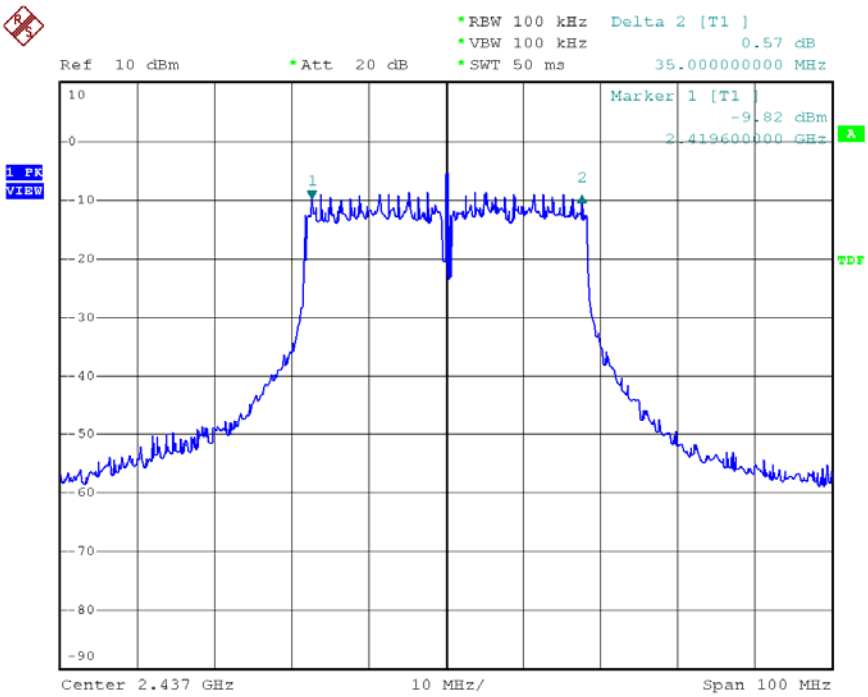
Date: 20.DEC.2007 22:28:34

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
Channel: 03



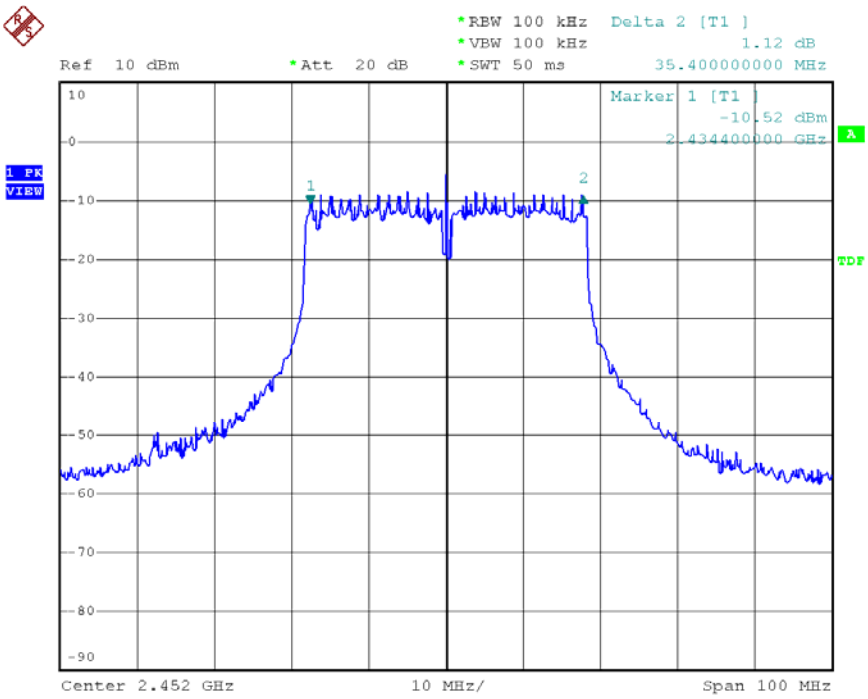
Date: 20.DEC.2007 23:48:03

Channel: 06



Date: 20.DEC.2007 23:35:30

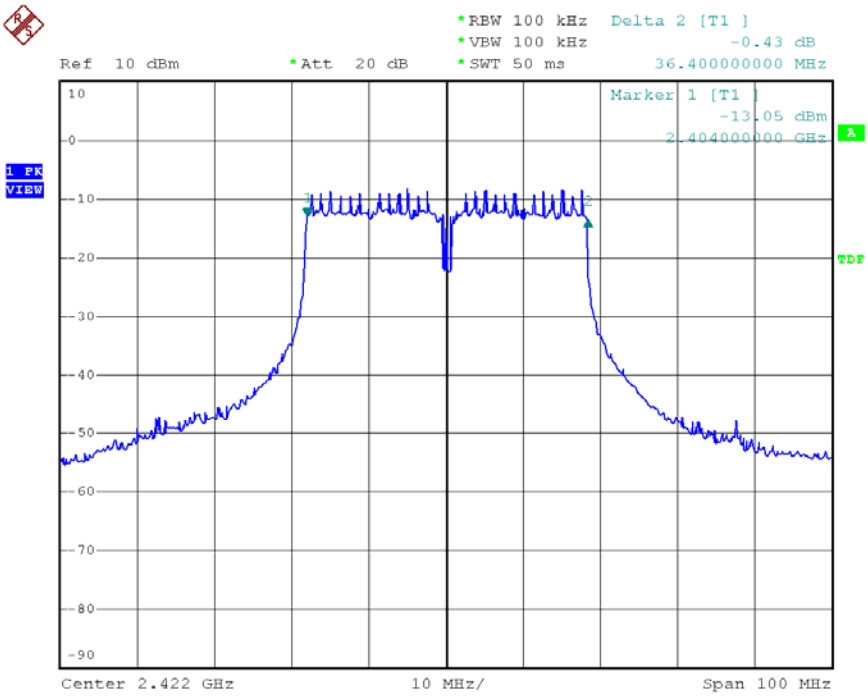
Channel: 09



Date: 20.DEC.2007 23:33:50

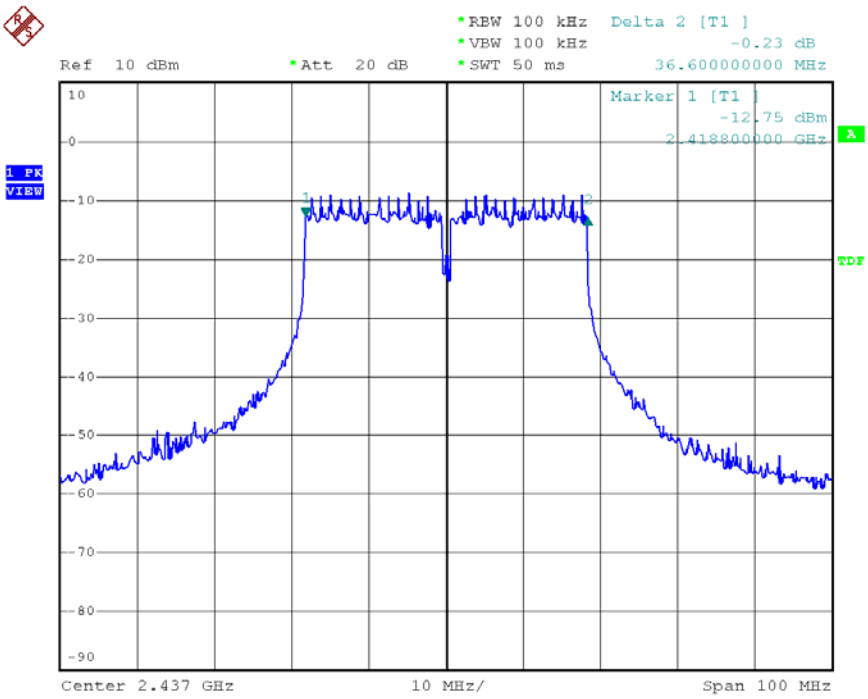
Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1

Channel: 03



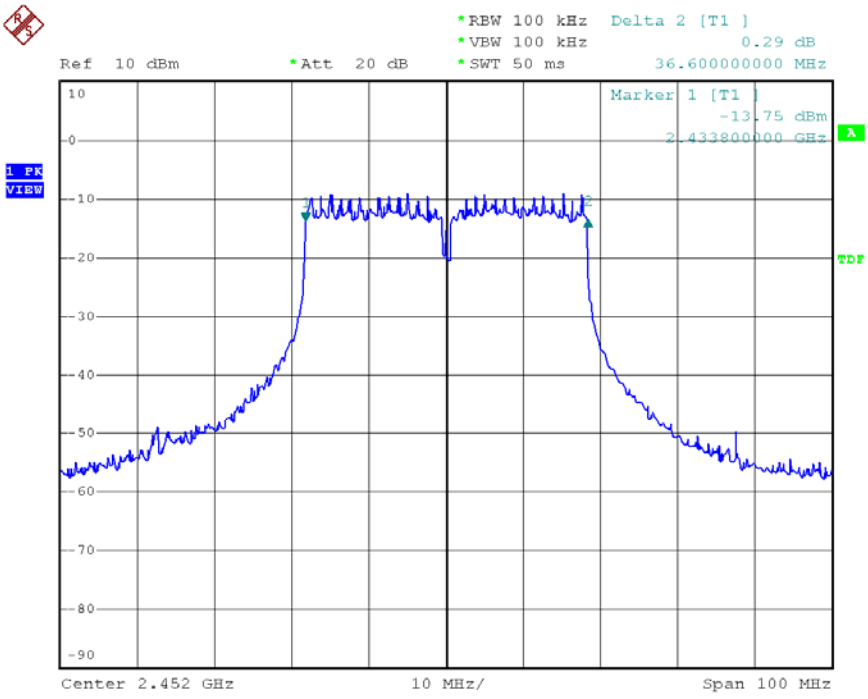
Date: 20.DEC.2007 23:43:55

Channel: 06



Date: 20.DEC.2007 23:37:07

Channel: 09



Date: 20.DEC.2007 23:20:49

7. Maximum Peak Output Power (For 802.11b/g device)

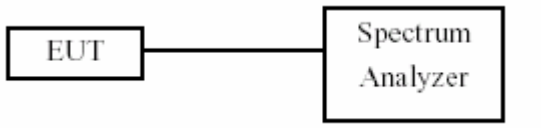
7.1 Test Limit

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 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/23	2008/01/22

7.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	22.68	185.40
06	2437	21.97	157.40
11	2462	21.88	154.20

(2) Modulation Standard: IEEE 802.11g (6Mbps)

Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	22.64	183.70
06	2437	22.32	170.60
11	2462	22.81	191.00

(3) Modulation Standard: IEEE 802.11n draft 2.0, 20MHz (6.5Mbps)

Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

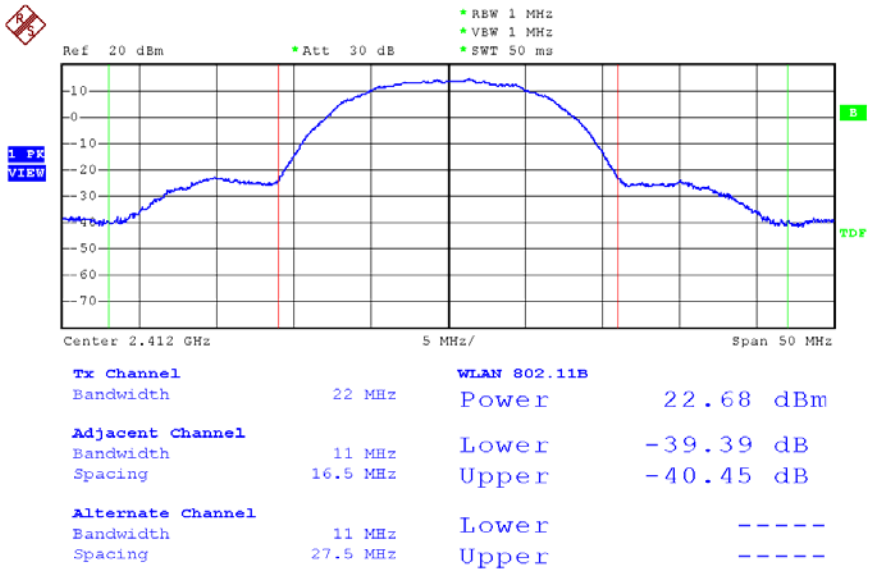
Channel	Frequency (MHz)	Peak Power Output Of TX0 (dBm)	Peak Power Output Of TX1 (dBm)	Peak Power Output Of Total (dBm)	Peak Power Output Of Total (mW)
01	2412	22.36	21.62	25.02	317.40
06	2437	22.64	22.22	25.45	350.38
11	2462	21.19	20.69	23.96	248.74

(4) Modulation Standard: IEEE 802.11n draft 2.0, 40MHz (13.5Mbps)

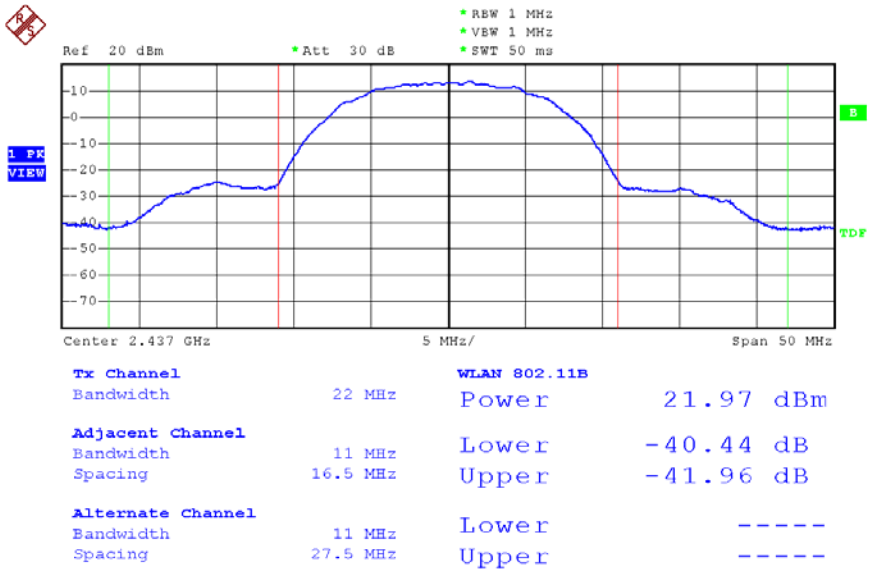
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Output Of TX0 (dBm)	Peak Power Output Of TX1 (dBm)	Peak Power Output Of Total (dBm)	Peak Power Output Of Total (mW)
03	2422	21.35	20.68	24.04	253.41
06	2437	21.33	20.63	24.00	251.44
09	2452	20.85	20.41	23.65	231.52

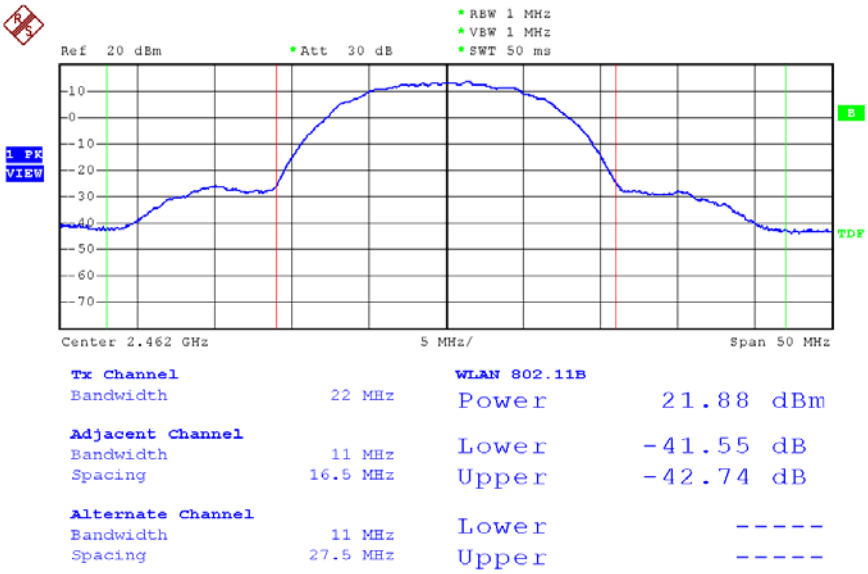
Modulation Standard: 802.11b (11Mbps)
Channel: 01



Channel: 06

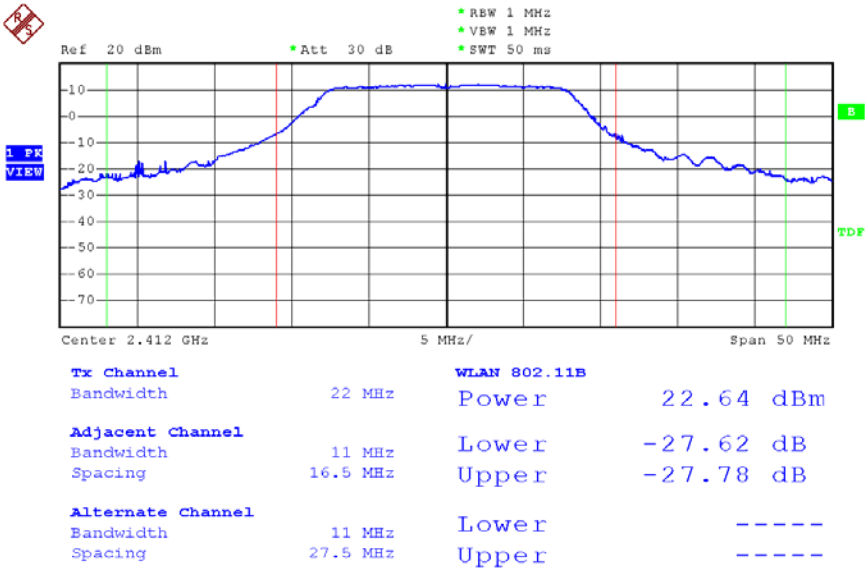


Channel: 11



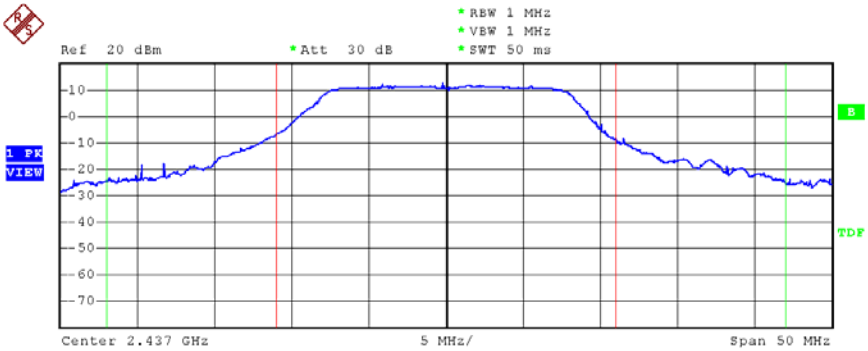
Date: 26.DEC.2007 16:14:24

Modulation Standard:802.11g (6Mbps)
Channel: 01



Date: 26.DEC.2007 16:20:02

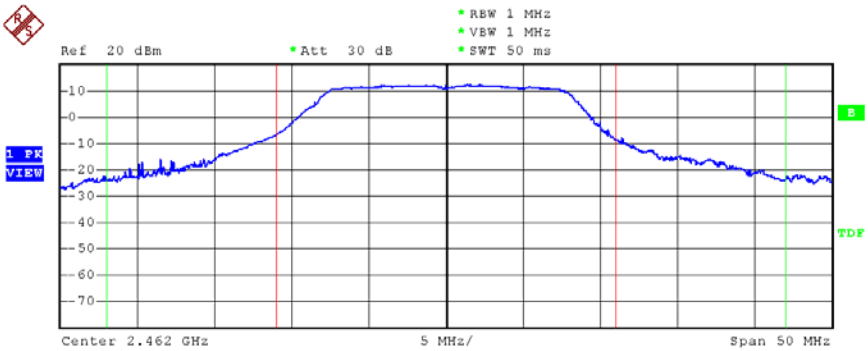
Channel: 06



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	22.32 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-27.66 dB
Spacing	16.5 MHz	Upper	-28.54 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 16:20:46

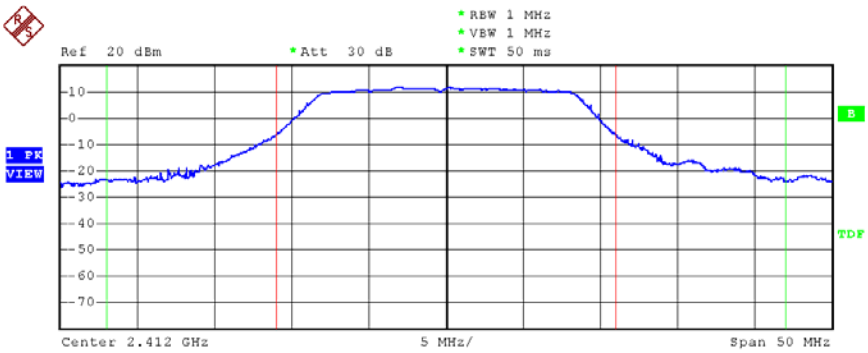
Channel: 11



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	22.81 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-27.21 dB
Spacing	16.5 MHz	Upper	-28.09 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 16:21:53

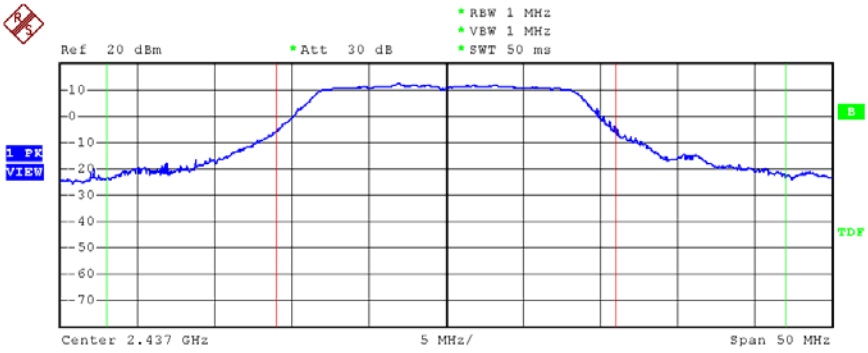
Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) - TX0
Channel: 01



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	22.36 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-27.66 dB
Spacing	16.5 MHz	Upper	-27.37 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Date: 26.DEC.2007 16:33:27

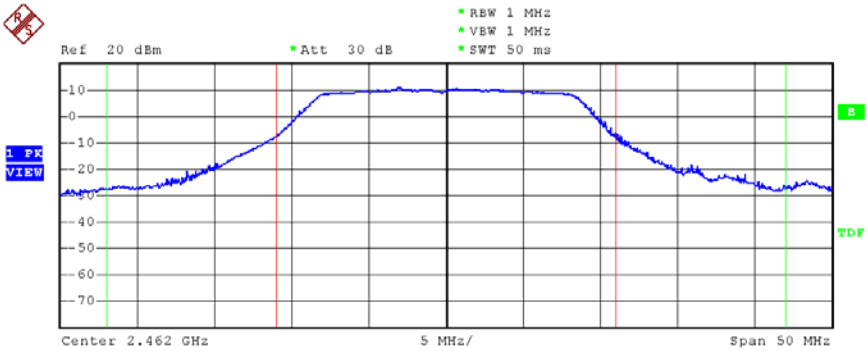
Channel: 06



Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	22.64 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-27.35 dB
Spacing	16.5 MHz	Upper	-26.84 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

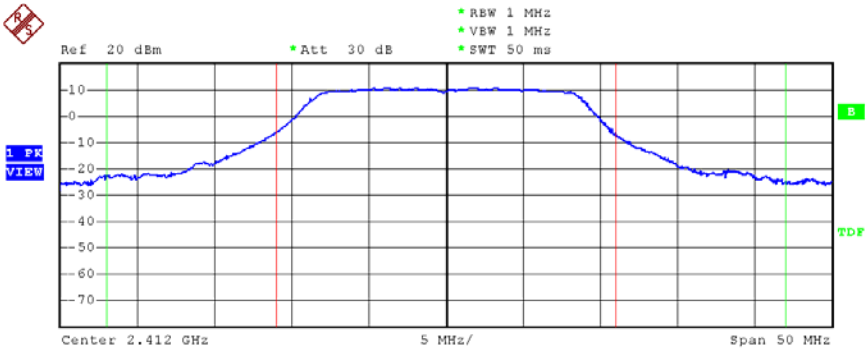
Date: 26.DEC.2007 16:29:52

Channel: 11



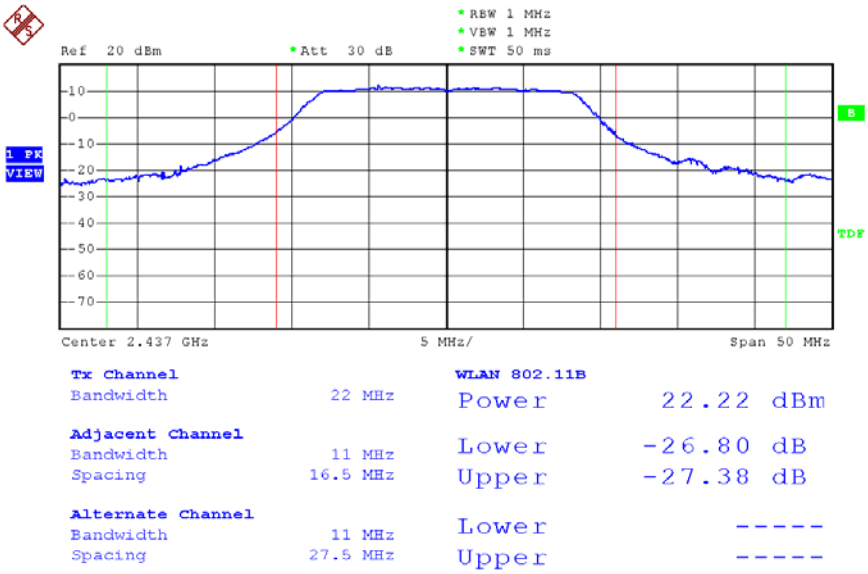
Date: 26.DEC.2007 16:24:57

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) - TX1
Channel: 01



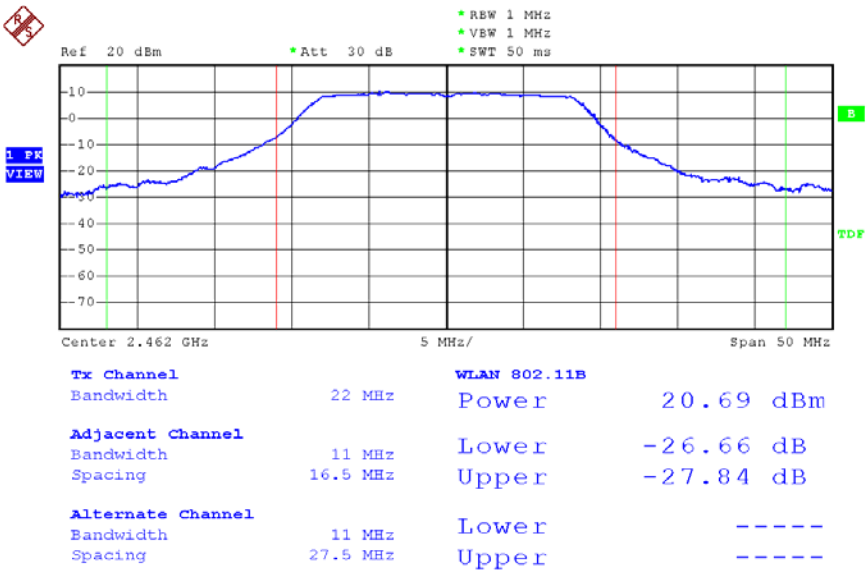
Date: 26.DEC.2007 16:32:06

Channel: 06



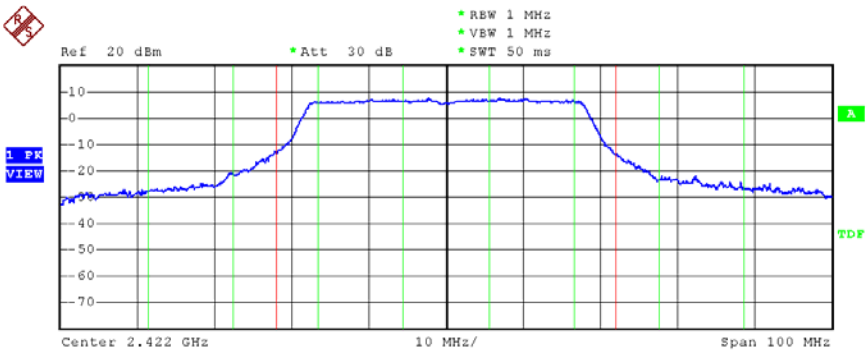
Date: 26.DEC.2007 16:28:46

Channel: 11



Date: 26.DEC.2007 16:26:44

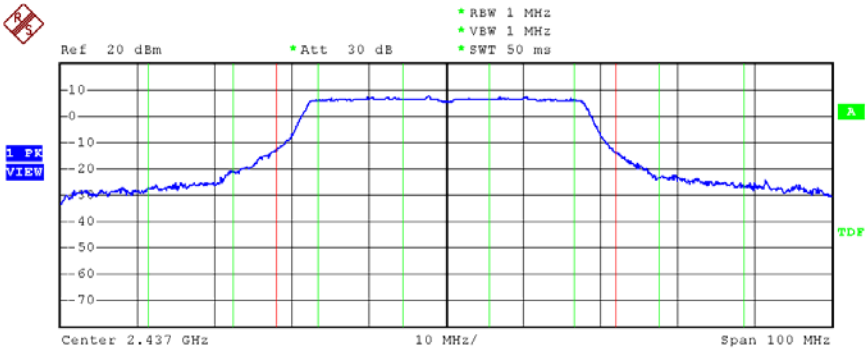
Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) - TX0
Channel: 03



Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	21.35 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.72 dB
Spacing	16.5 MHz	Upper	-4.39 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-13.30 dB
Spacing	27.5 MHz	Upper	-12.69 dB

Date: 2.JAN.2008 22:04:43

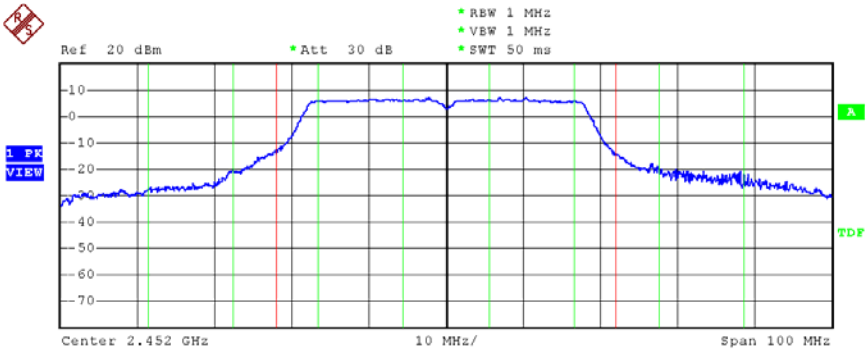
Channel: 06



Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	21.33 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.55 dB
Spacing	16.5 MHz	Upper	-4.55 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-13.20 dB
Spacing	27.5 MHz	Upper	-12.82 dB

Date: 2.JAN.2008 22:03:18

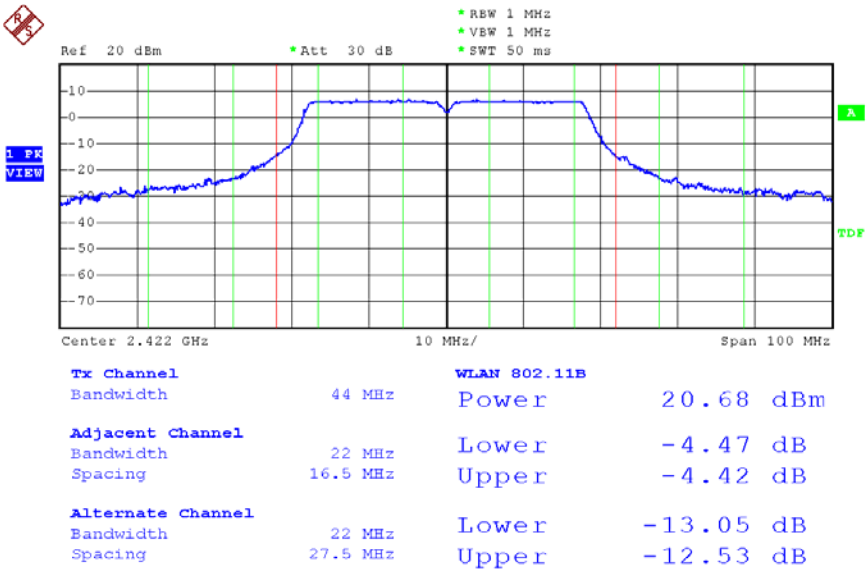
Channel: 09



Date: 2.JAN.2008 22:02:06

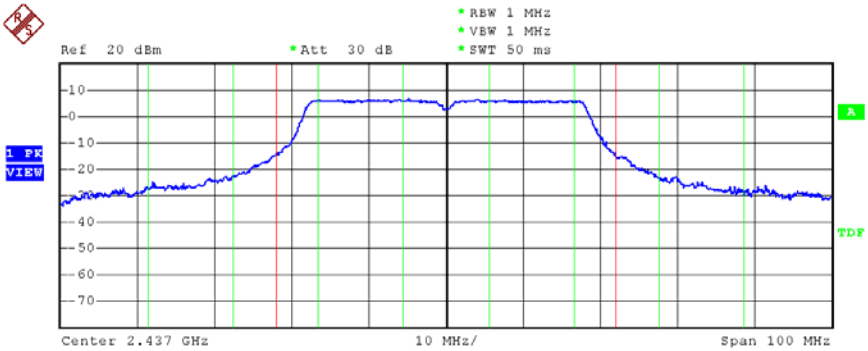
Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) - TX1

Channel: 03



Date: 2.JAN.2008 22:05:06

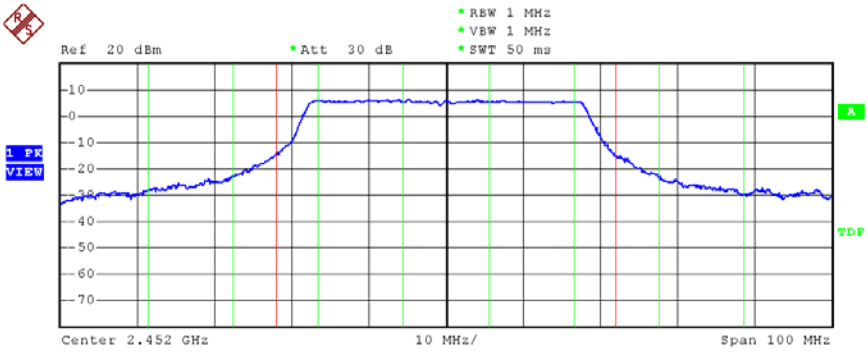
Channel: 06



Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	20.63 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.33 dB
Spacing	16.5 MHz	Upper	-4.55 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-12.79 dB
Spacing	27.5 MHz	Upper	-12.65 dB

Date: 2.JAN.2008 22:03:43

Channel: 09



Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	20.41 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.39 dB
Spacing	16.5 MHz	Upper	-4.65 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-12.84 dB
Spacing	27.5 MHz	Upper	-12.76 dB

Date: 2.JAN.2008 22:02:27

8. Band Edges Measurement (For 802.11b/g device)

8.1 Test Limit

Below –20dB of the highest emission level of operating band

(in 100kHz Resolution Bandwidth).

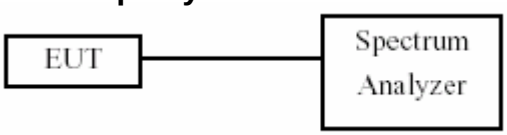
8.2 Test Procedure：

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 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/23	2008/01/22

8.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Dec. 18, 2007 Temperature: 22℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2397.60	-38.13
11	2462	2507.50	-47.88

(2) Modulation Standard: IEEE 802.11g (6Mbps)

Test Date: Dec. 18, 2007 Temperature: 22℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2399.80	-33.12
11	2462	2484.30	-49.09

(3) Modulation Standard: IEEE 802.11n draft 2.0, 20MHz (6.5Mbps)

Test Date: Dec. 18, 2007 Temperature: 22℃ Humidity: 60% Atmospheric pressure: 1008 hPa

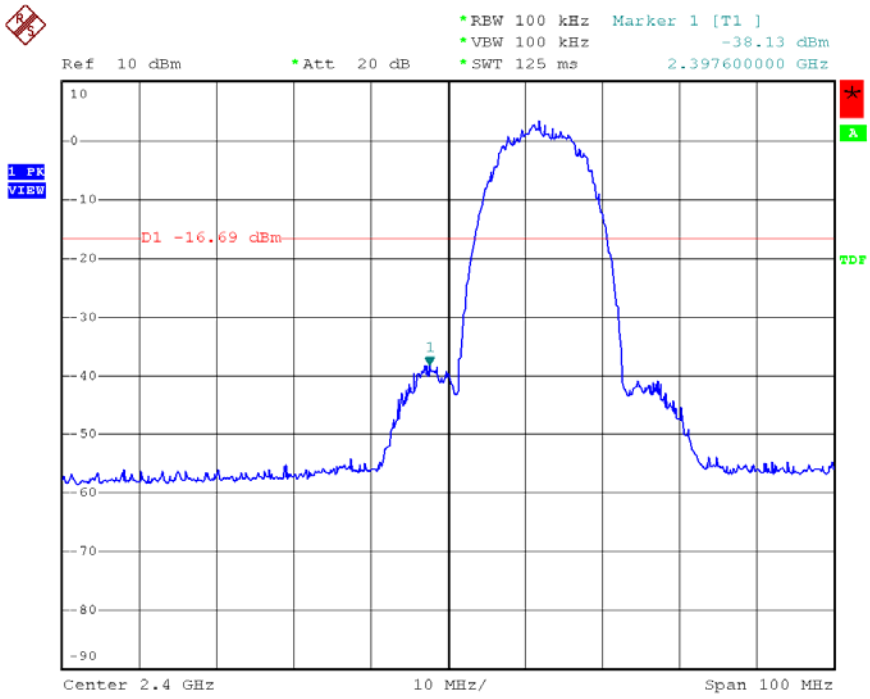
Channel Frequency		maximum value in frequency and measurement value			
		TX0		TX1	
		MHz	dBm	MHz	dBm
01	2412	2399.60	-38.43	2399.80	-35.41
11	2462	2483.90	-54.43	2545.00	-52.05

(4) Modulation Standard: IEEE 802.11n draft 2.0, 40MHz (13.5Mbps)

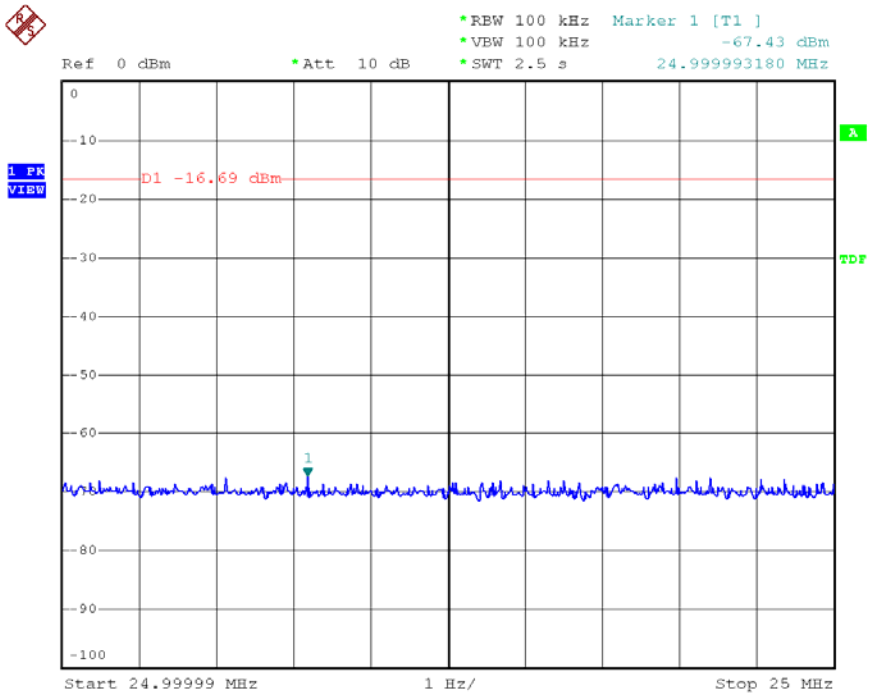
Test Date: Dec. 18, 2007 Temperature: 22℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	maximum value in frequency and measurement value			
		TX0		TX1	
		MHz	dBm	MHz	dBm
03	2422	2399.80	-40.52	2399.80	-39.22
09	2452	2483.70	-38.40	2483.90	-39.64

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

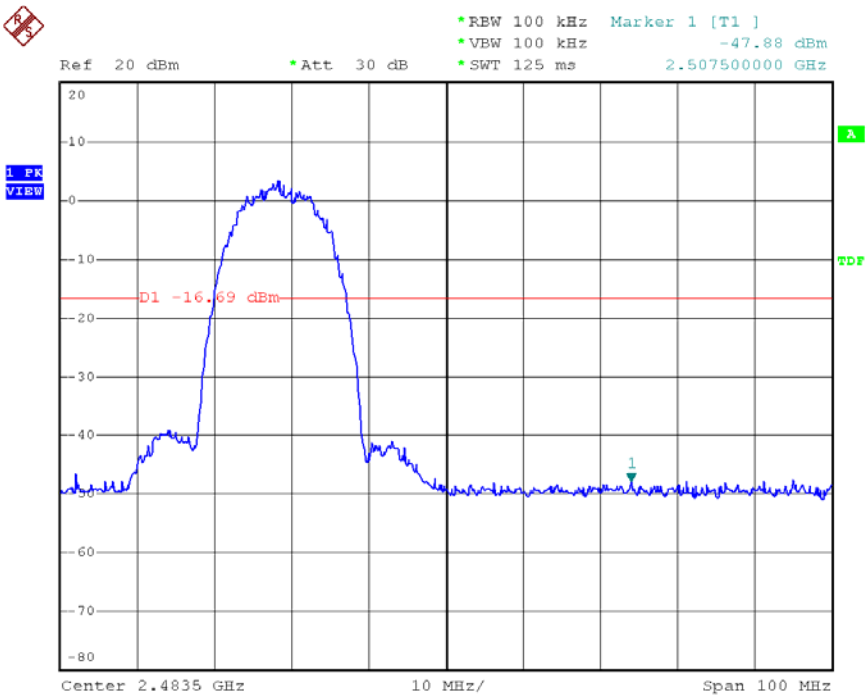


Date: 20.DEC.2007 22:04:38

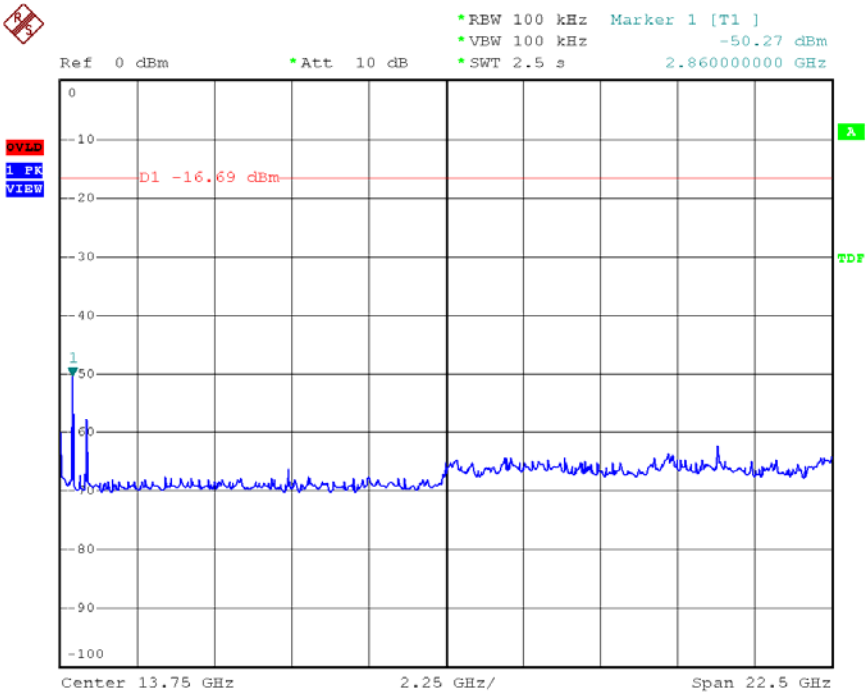


Date: 20.DEC.2007 22:05:11

Channel: 11

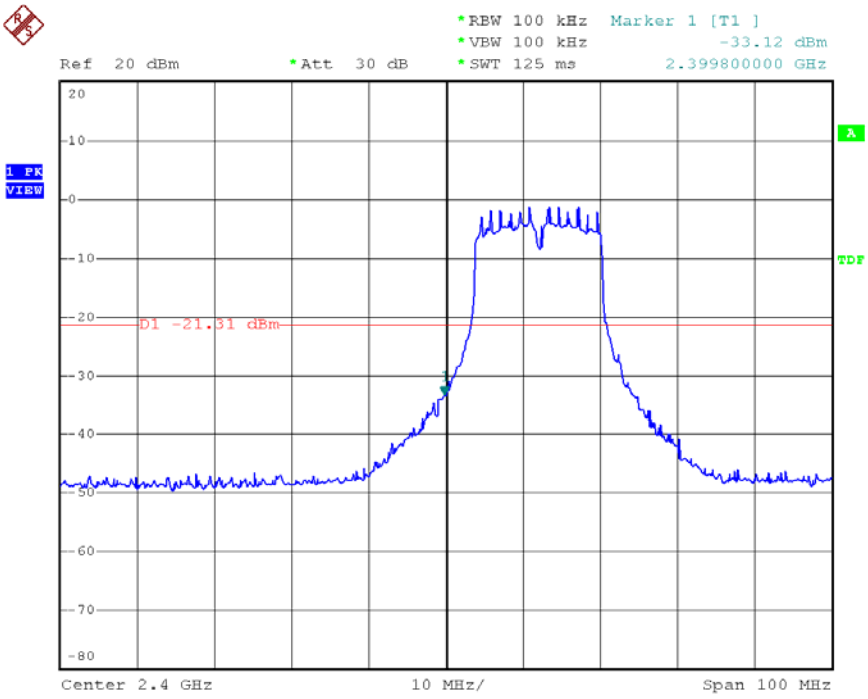


Date: 20.DEC.2007 22:00:17

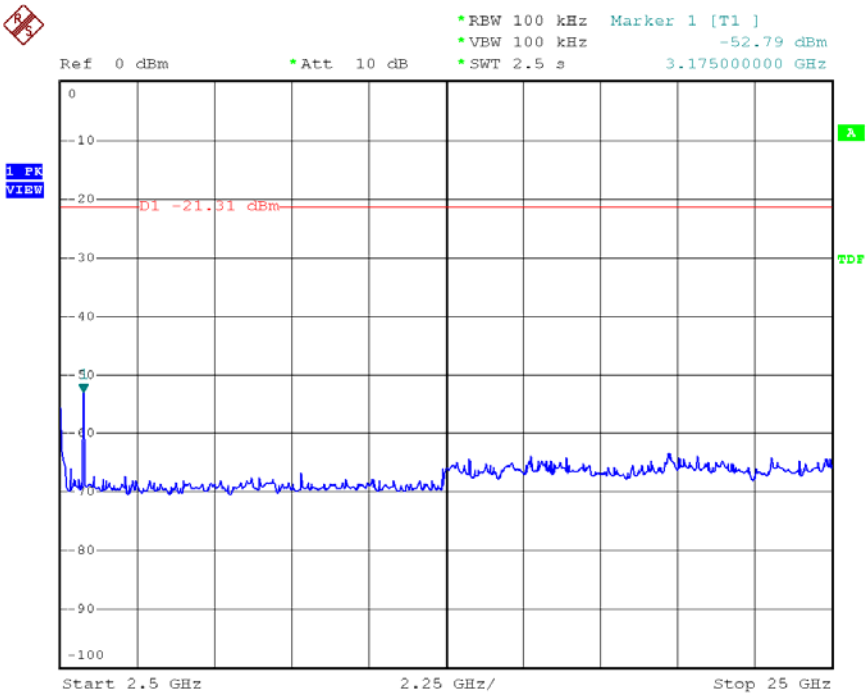


Date: 20.DEC.2007 22:00:58

Modulation Standard: 802.11g (6Mbps)
Channel: 01

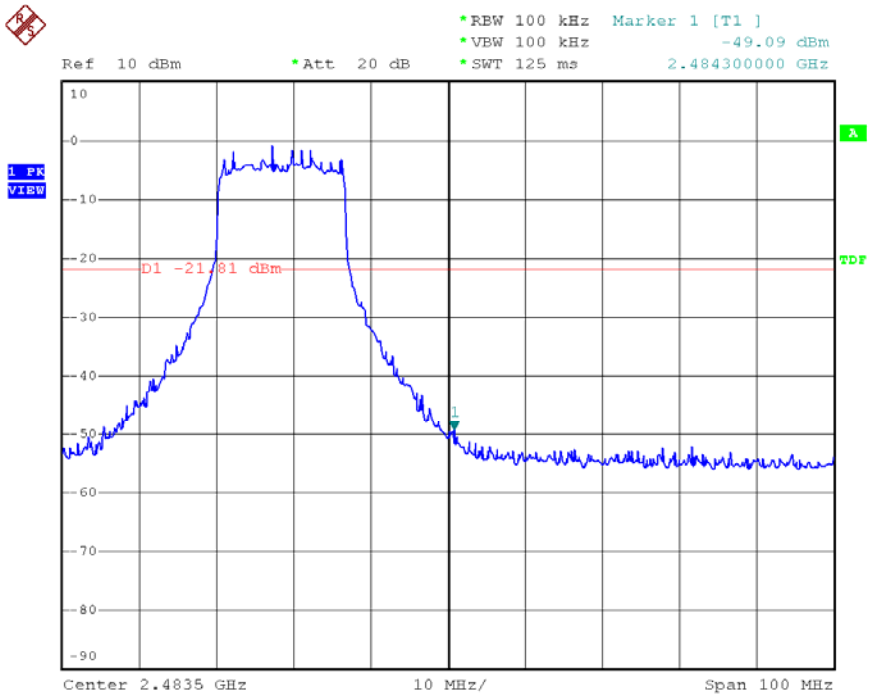


Date: 20.DEC.2007 21:54:07

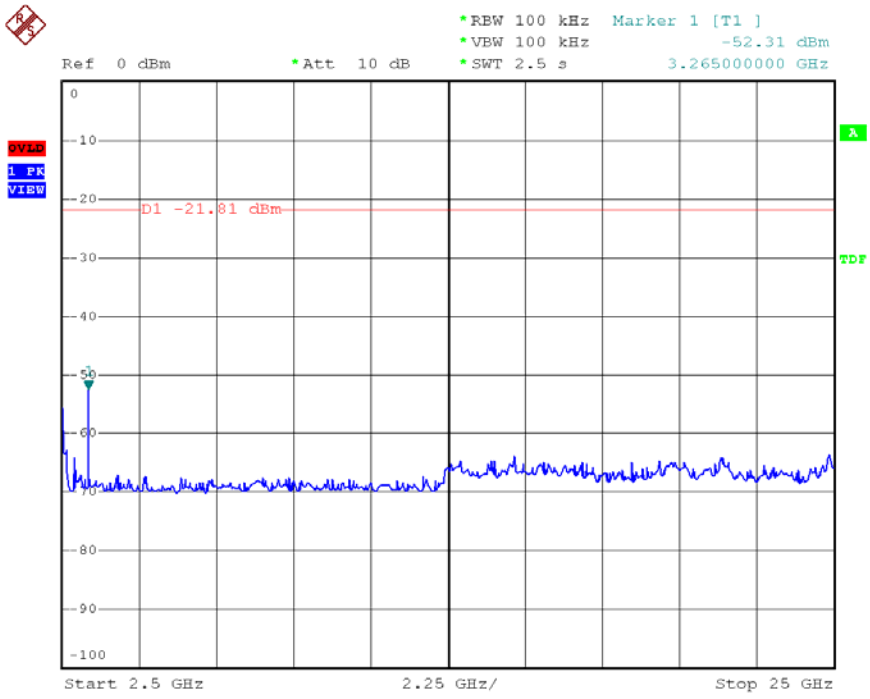


Date: 20.DEC.2007 21:54:50

Channel: 11

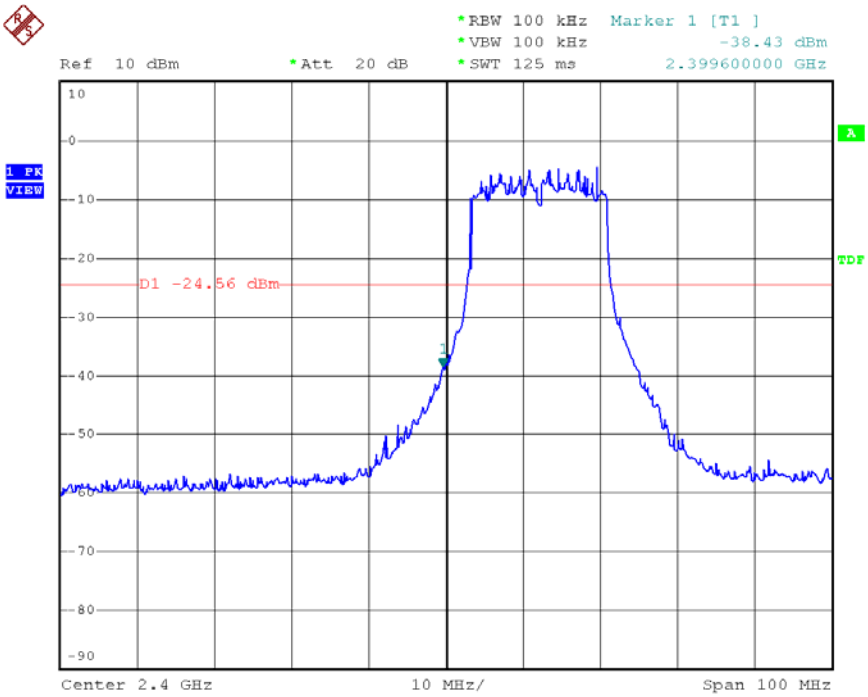


Date: 20.DEC.2007 21:56:30

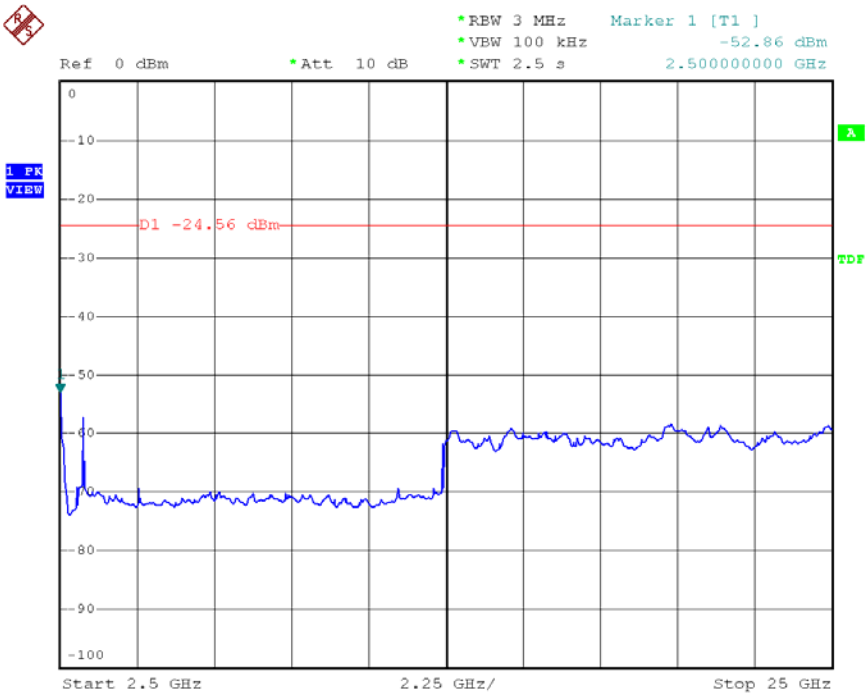


Date: 20.DEC.2007 21:57:02

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
Channel: 01

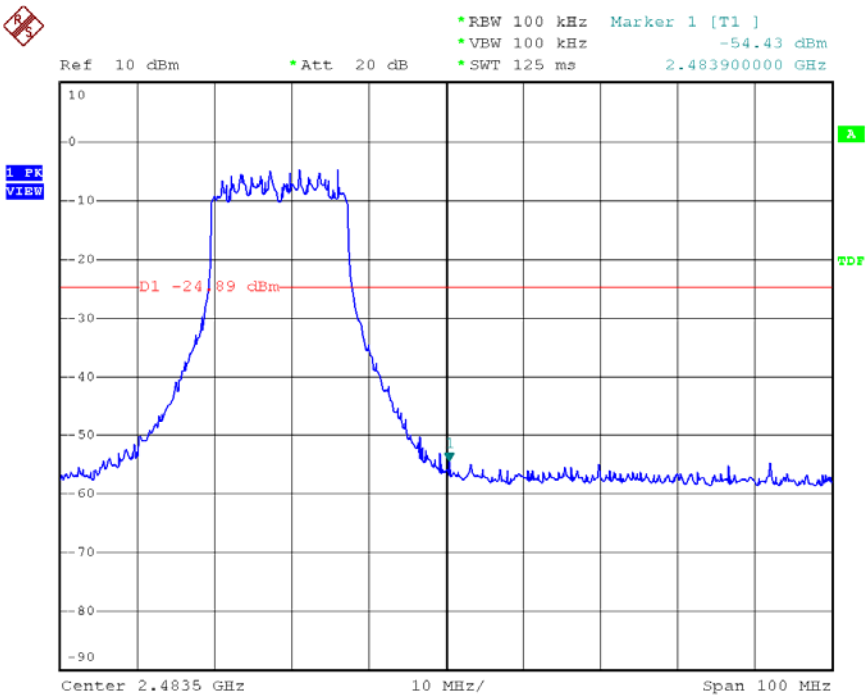


Date: 20.DEC.2007 23:02:46

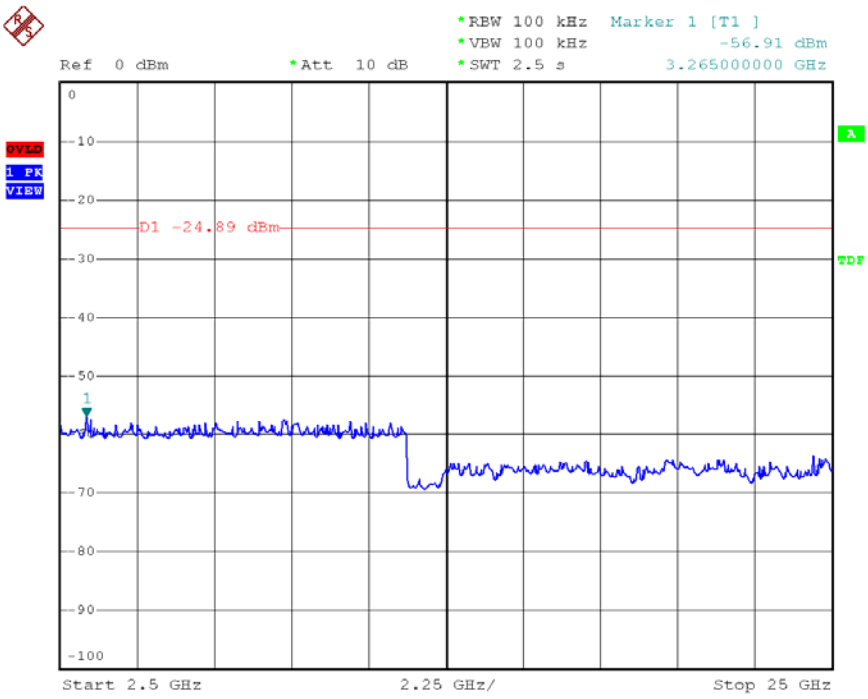


Date: 20.DEC.2007 23:03:23

Channel: 11

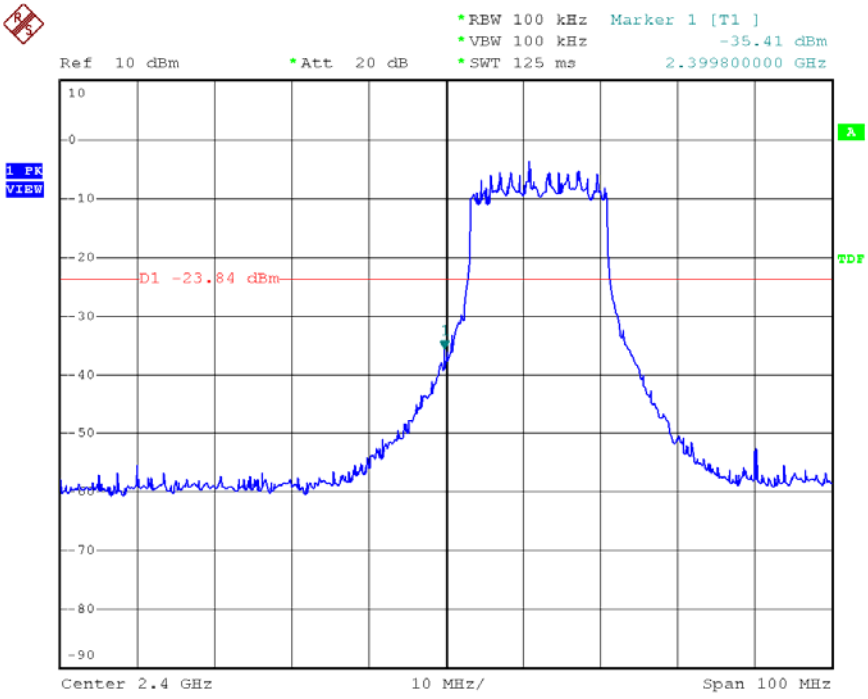


Date: 20.DEC.2007 22:49:44

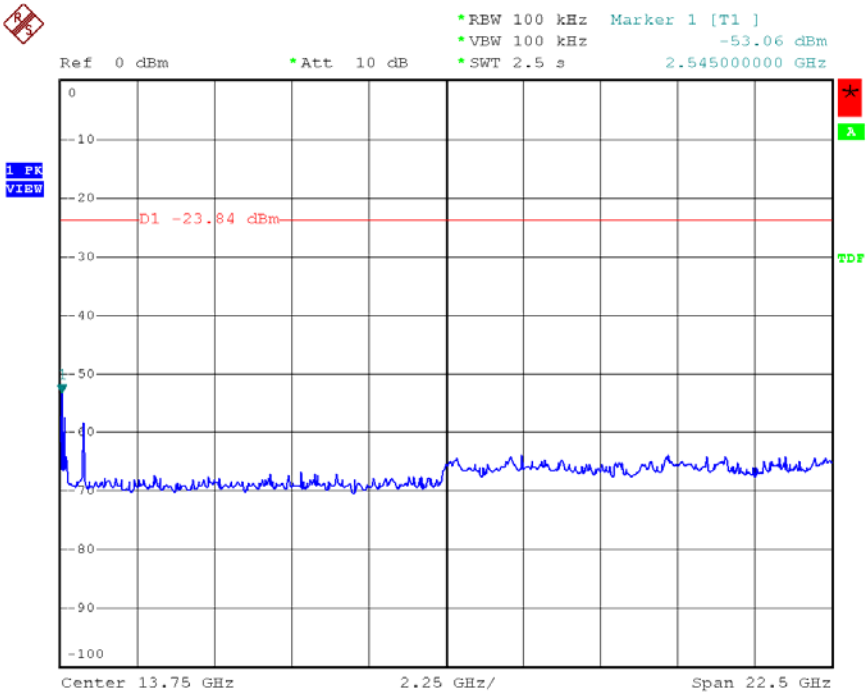


Date: 20.DEC.2007 22:50:42

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
Channel: 01



Date: 20.DEC.2007 23:00:34



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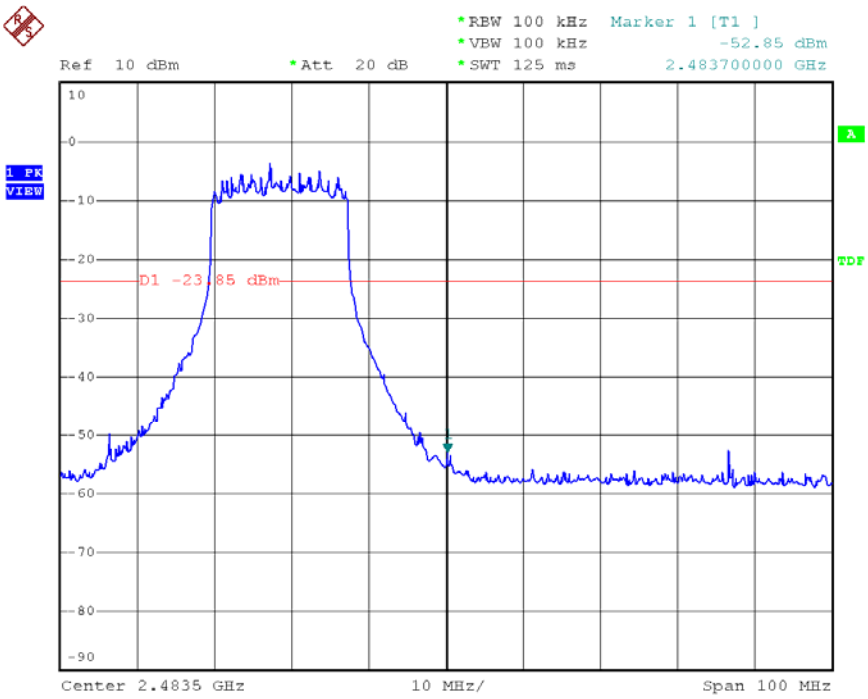
Channel: 11



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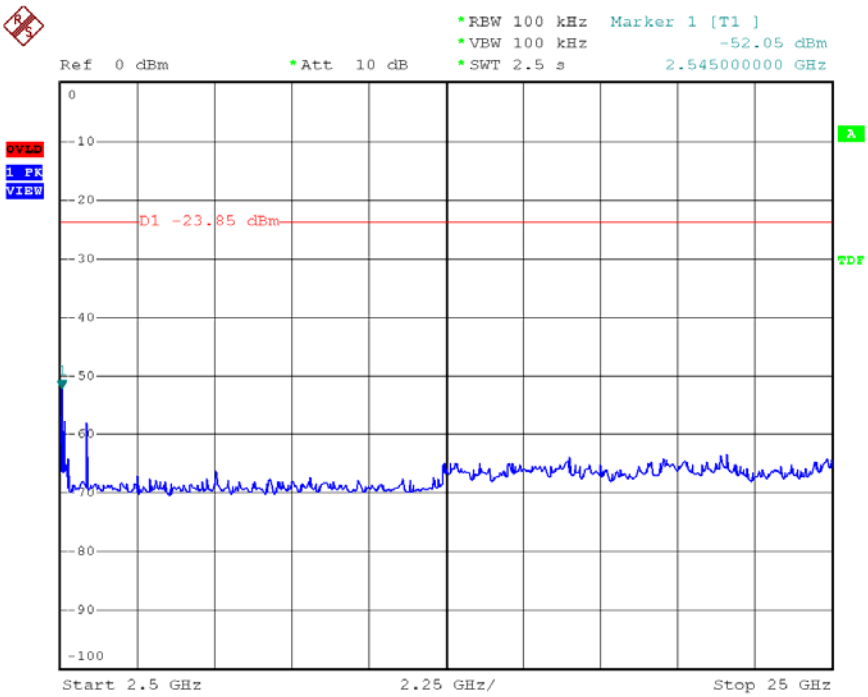
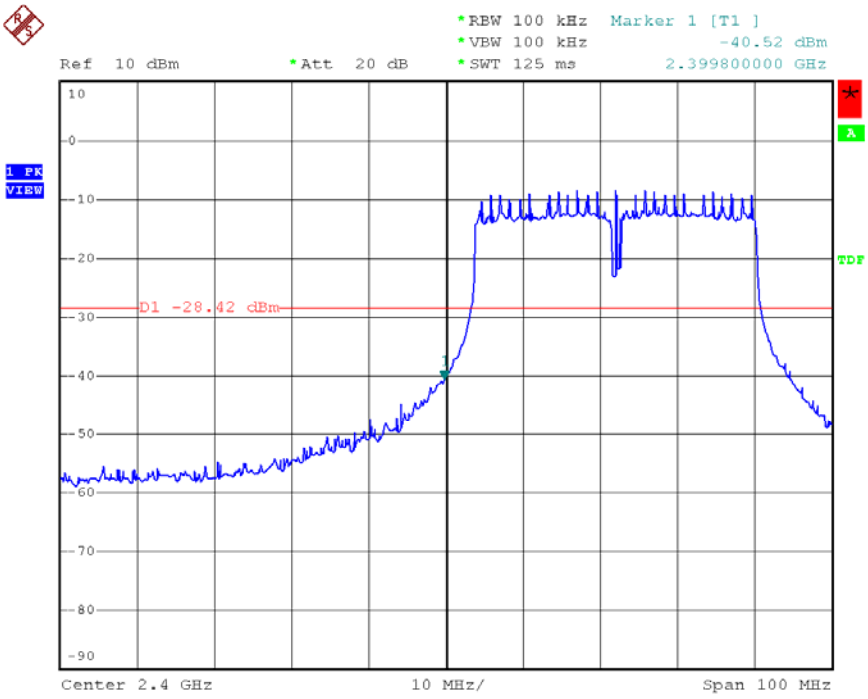
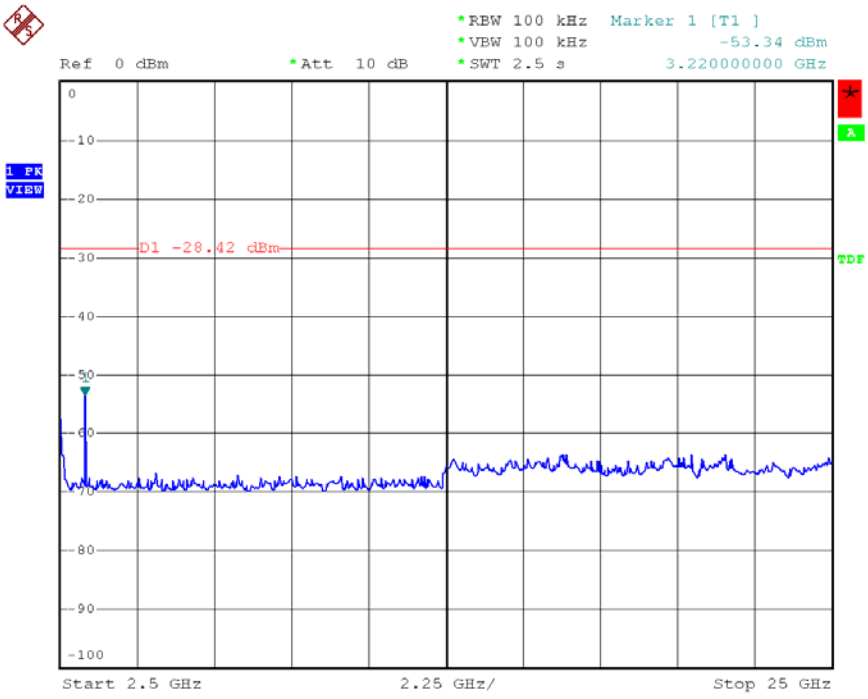


Date: 20.DEC.2007 22:57:25

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
Channel: 03



Date: 21.DEC.2007 00:11:11



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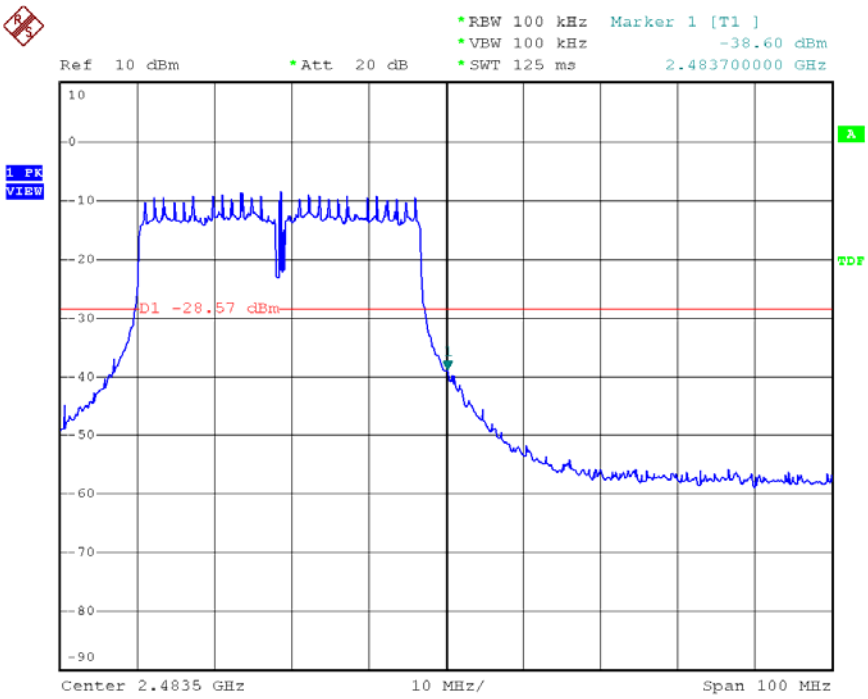
Channel: 09



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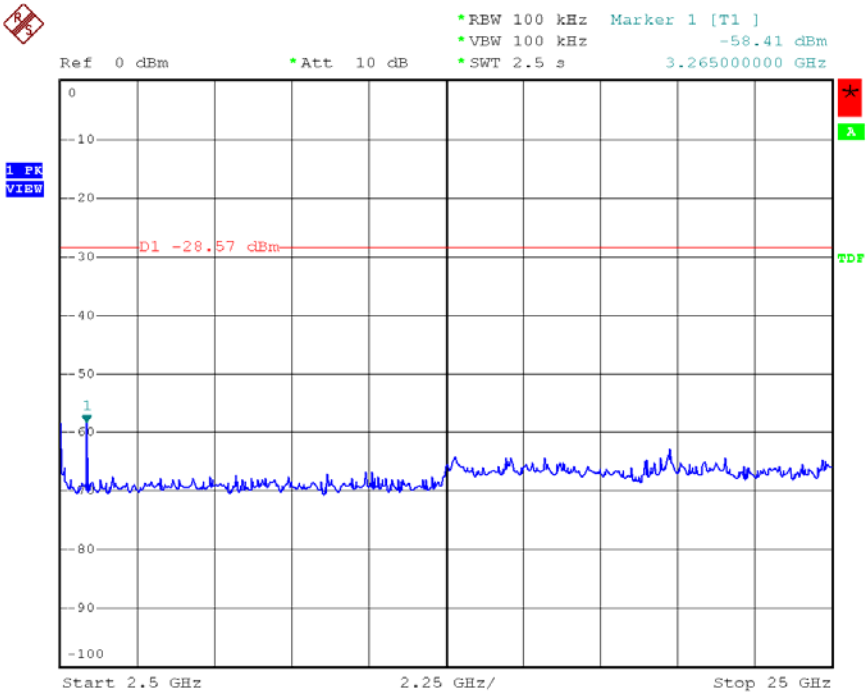
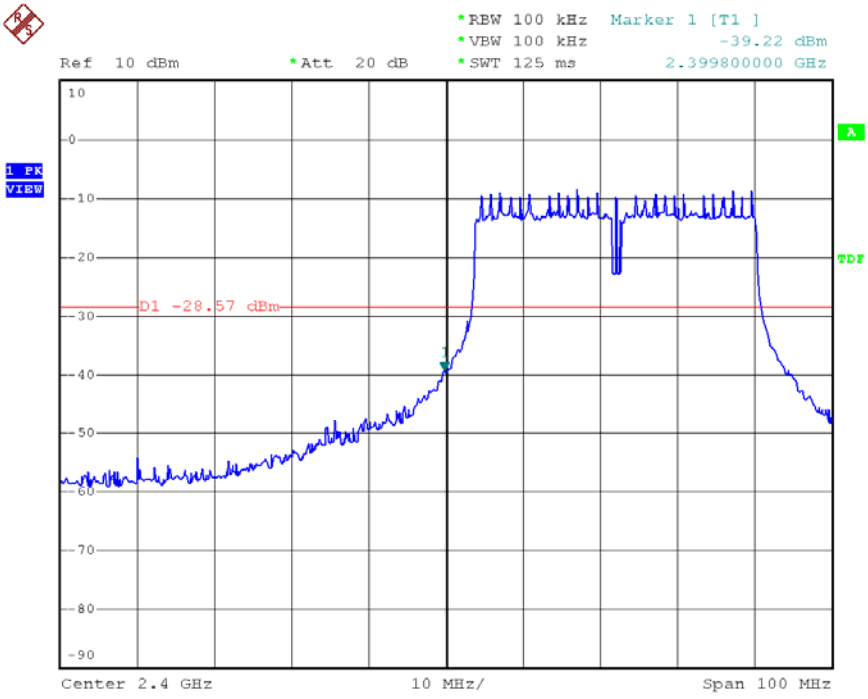


Date: 21.DEC.2007 00:09:31

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
Channel: 03



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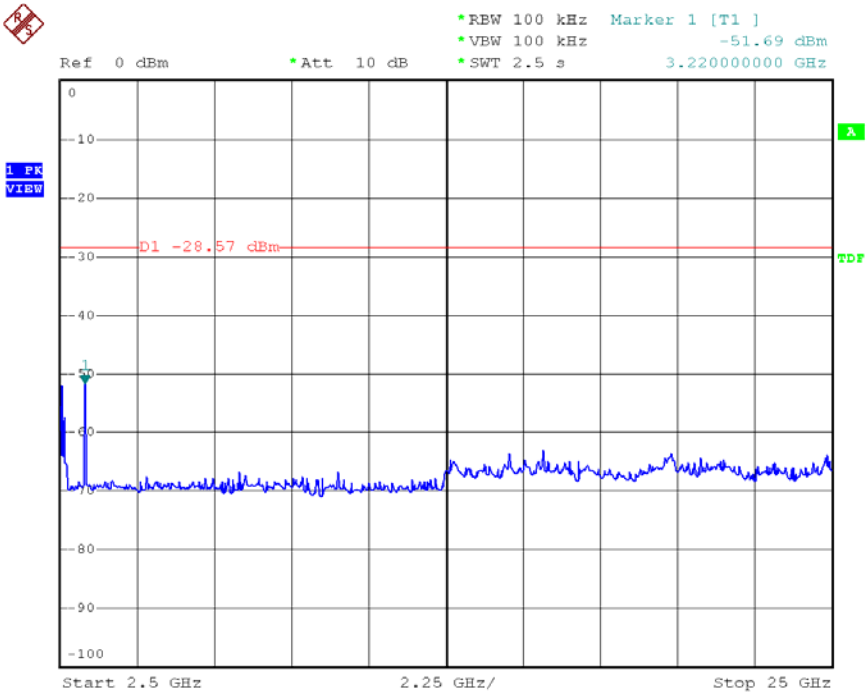
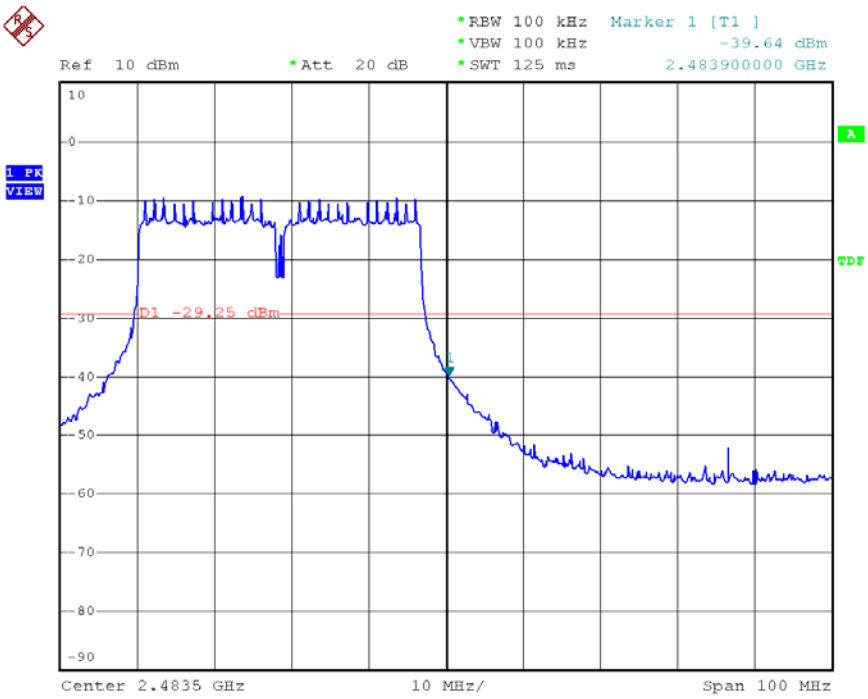


Date: 21.DEC.2007 00:13:35

Channel: 09



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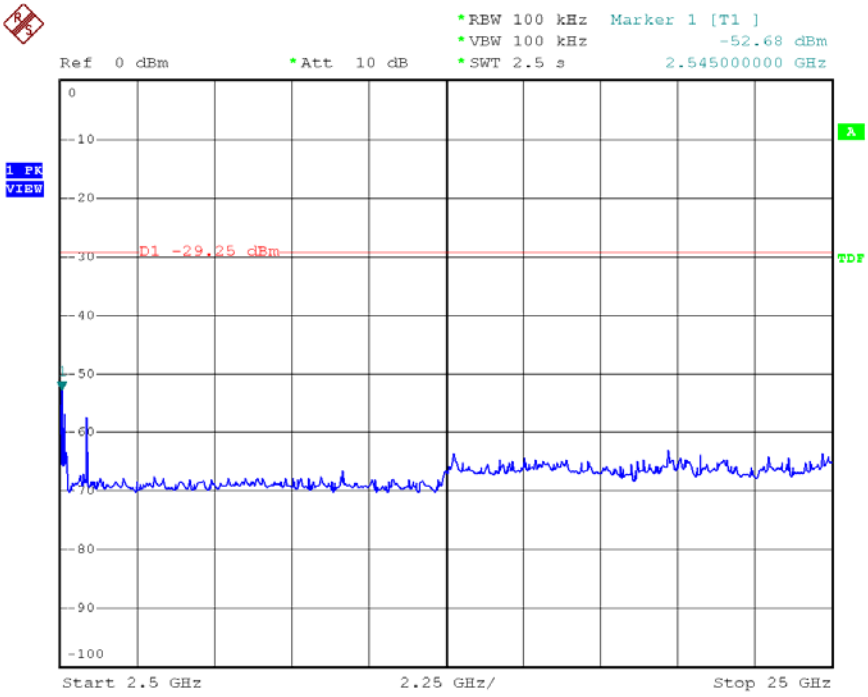


Date: 21.DEC.2007 00:07:06

8.6 Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Dec. 24, 2007 Temperature: 22℃ Humidity: 70% Atmospheric pressure: 1030 hPa

a) Channel 1

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.			
2385.89	H	63.64	-3.11	60.53	Peak	74	54	-13.47	210	1.0
2387.41	H	51.97	-3.11	48.86	Ave	74	54	-5.14	210	1.0
2388.44	V	60.05	-3.10	56.95	Peak	74	54	-17.05	210	1.0
2386.70	V	48.03	-3.11	44.92	Ave	74	54	-9.08	210	1.0

b) Channel 11

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.			
2488.11	H	61.90	-2.74	59.16	Peak	74	54	-14.84	210	1.0
2487.80	H	49.72	-2.74	46.98	Ave	74	54	-7.02	210	1.0
2494.19	V	58.62	-2.72	55.90	Peak	74	54	-18.10	210	1.0
2487.61	V	47.41	-2.74	44.67	Ave	74	54	-9.33	210	1.0

Modulation Standard: 802.11g (6Mbps)

Test Date: Dec. 24, 2007 Temperature: 22℃ Humidity: 70% Atmospheric pressure: 1030 hPa

a) Channel 1

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.			
2388.44	H	66.87	-3.10	63.77	Peak	74	54	-10.23	210	1.0
2389.97	H	53.95	-3.10	50.85	Ave	74	54	-3.15	210	1.0
2388.95	V	65.10	-3.10	62.00	Peak	74	54	-12.00	210	1.0
2389.97	V	53.07	-3.10	49.98	Ave	74	54	-4.02	210	1.0

b) Channel 11

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.			
2485.07	H	66.52	-2.75	63.77	Peak	74	54	-10.23	210	1.0
2483.51	H	53.19	-2.76	50.43	Ave	74	54	-3.57	210	1.0
2483.74	V	65.17	-2.76	62.41	Peak	74	54	-11.59	210	1.0
2483.55	V	52.81	-2.76	50.05	Ave	74	54	-3.95	210	1.0

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

Modulation Standard: IEEE 802.11n draft 2.0, 20MHz (6.5Mbps)

Test Date: Dec. 24, 2007 Temperature: 22℃ Humidity: 70% Atmospheric pressure: 1030 hPa

a) Channel 1

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.			
2389.46	H	66.83	-3.10	63.73	Peak	74	54	-10.27	210	1.0
2389.76	H	53.47	-3.10	50.37	Ave	74	54	-3.63	210	1.0
2389.76	V	66.64	-3.10	63.54	Peak	74	54	-10.46	210	1.0
2389.97	V	53.92	-3.10	50.82	Ave	74	54	-3.18	210	1.0

b) Channel 11

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.			
2485.45	H	66.24	-2.75	63.49	Peak	74	54	-10.51	210	1.0
2483.51	H	53.40	-2.76	50.64	Ave	74	54	-3.36	210	1.0
2485.71	V	64.22	-2.75	61.47	Peak	74	54	-12.53	210	1.0
2483.74	V	52.04	-2.76	49.28	Ave	74	54	-4.72	210	1.0

Modulation Standard: IEEE 802.11n draft 2.0, 40MHz (13.5Mbps)

Test Date: Dec. 24, 2007 Temperature: 22℃ Humidity: 70% Atmospheric pressure: 1030 hPa

a) Channel 3

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.			
2388.44	H	66.44	-3.10	63.34	Peak	74	54	-10.66	210	1.0
2388.95	H	52.03	-3.10	50.93	Ave	74	54	-3.07	210	1.0
2389.97	V	66.36	-3.10	63.26	Peak	74	54	-10.74	210	1.0
2389.76	V	53.94	-3.10	50.84	Ave	74	54	-3.16	210	1.0

b) Channel 09

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.			
2484.95	H	66.90	-2.75	64.14	Peak	74	54	-9.86	210	1.0
2484.12	H	53.04	-2.76	50.28	Ave	74	54	-3.72	210	1.0
2483.81	V	66.51	-2.76	63.76	Peak	74	54	-10.24	210	1.0
2483.51	V	53.62	-2.76	50.86	Ave	74	54	-3.14	210	1.0

9. Power Spectral Density (For 802.11b/g device)

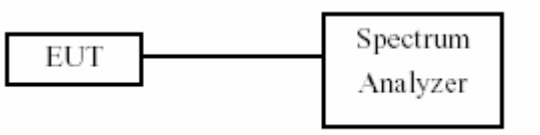
9.1 Test Limit

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 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2007/01/23	2008/01/22

9.5 Test Result and Data

(1) Modulation Standard: IEEE 802.11b (11Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-10.88
06	2437	-10.62
11	2462	-10.79

(2) Modulation Standard: IEEE 802.11g (6Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-12.20
06	2437	-15.15
11	2462	-10.08

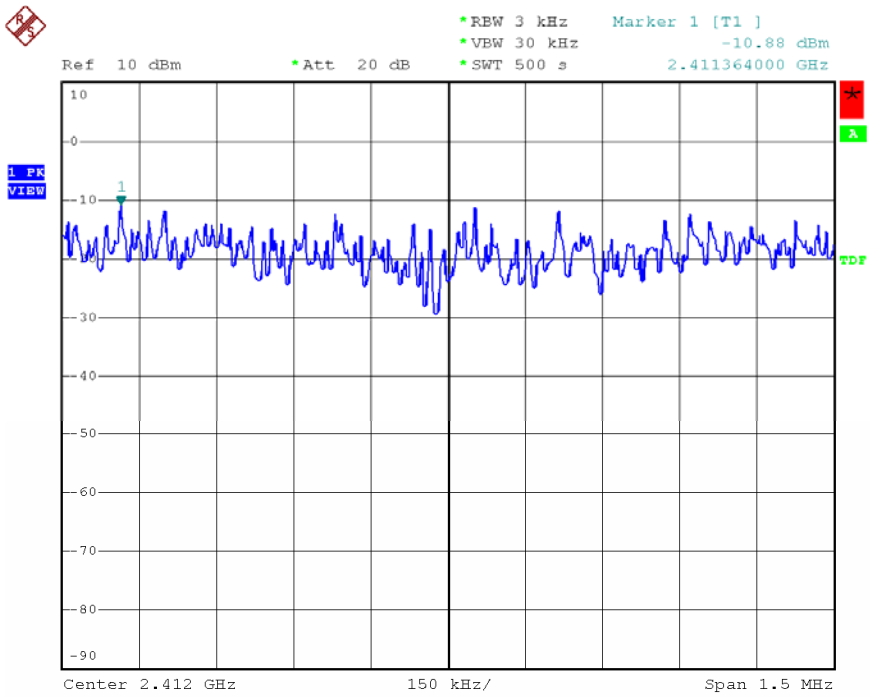
(3) Modulation Standard: IEEE 802.11n draft 2.0, 20MHz (6.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)		
		TX0	TX1	Total
01	2412	-19.26	-18.90	-16.07
06	2437	-18.96	-18.82	-15.88
11	2462	-16.37	-18.63	-14.34

(4) Modulation Standard: IEEE 802.11n draft 2.0, 40MHz (13.5Mbps)
Test Date: Dec. 21, 2007 Temperature: 25℃ Humidity: 60% Atmospheric pressure: 1008 hPa

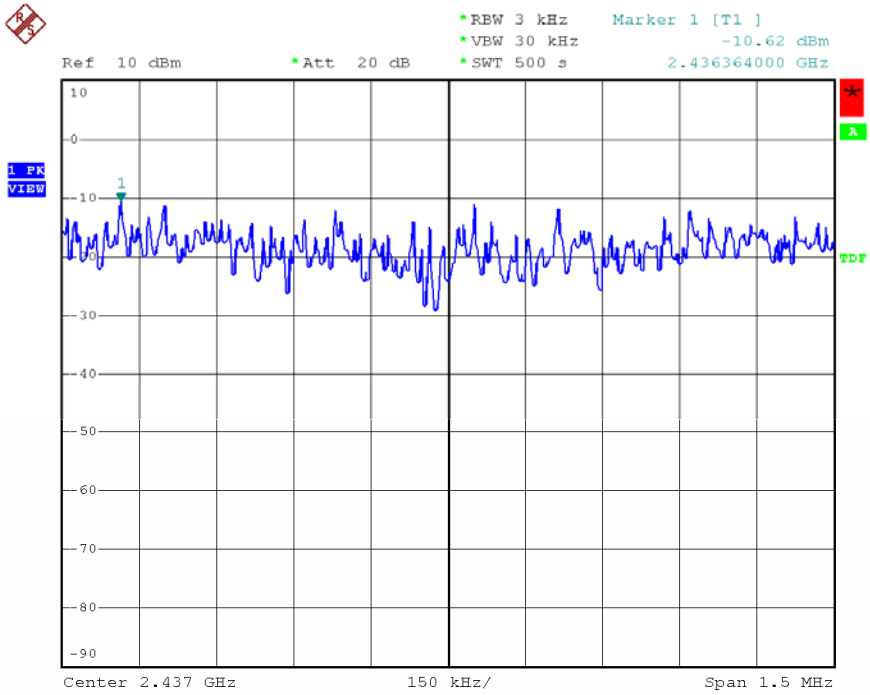
Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)		
		TX0	TX1	Total
03	2422	-11.15	-17.87	-10.31
06	2437	-12.08	-9.03	-7.28
09	2452	-9.30	-17.91	-8.74

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



Date: 20.DEC.2007 22:07:53

Channel: 06



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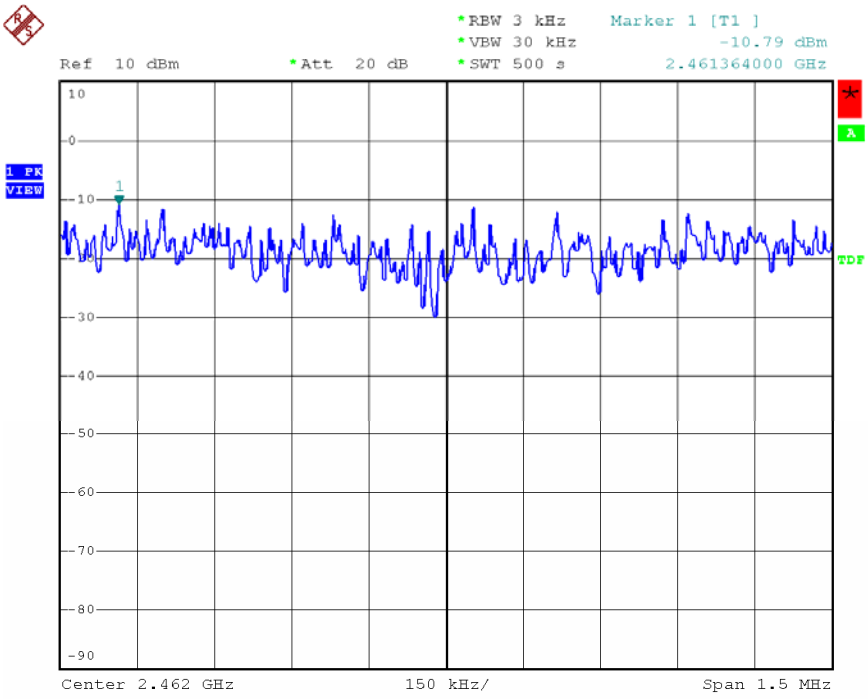
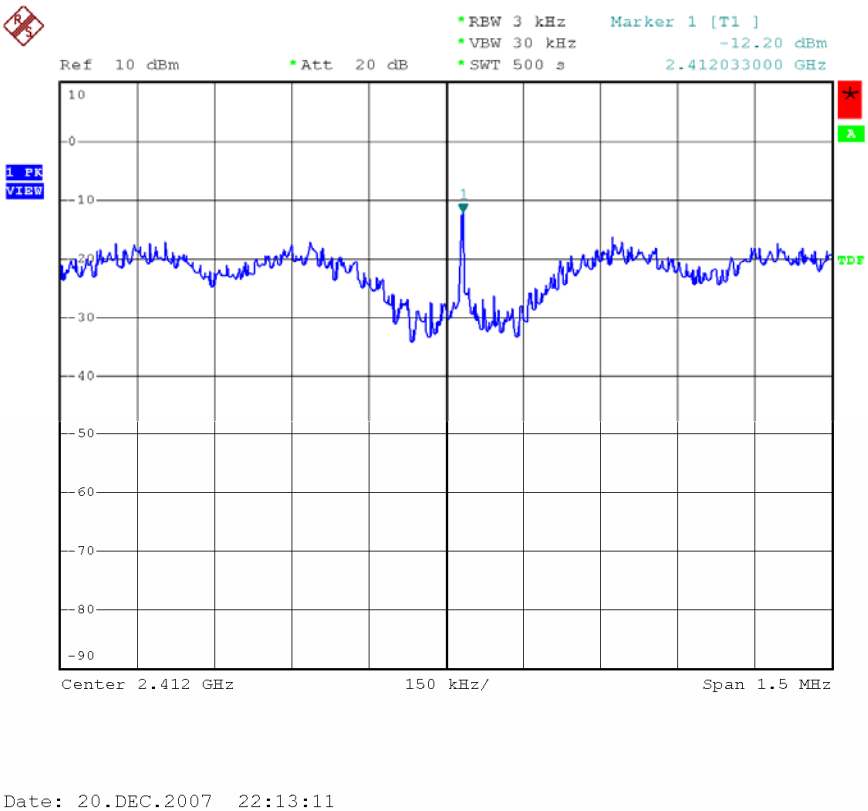
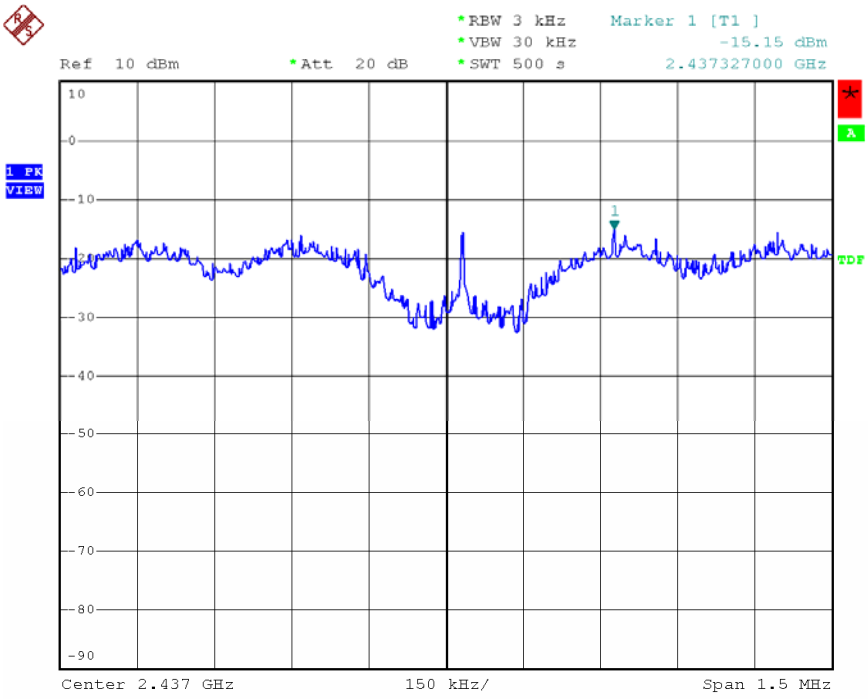
Channel: 11



Modulation Standard:802.11g (6Mbps)
Channel: 01



Channel: 06



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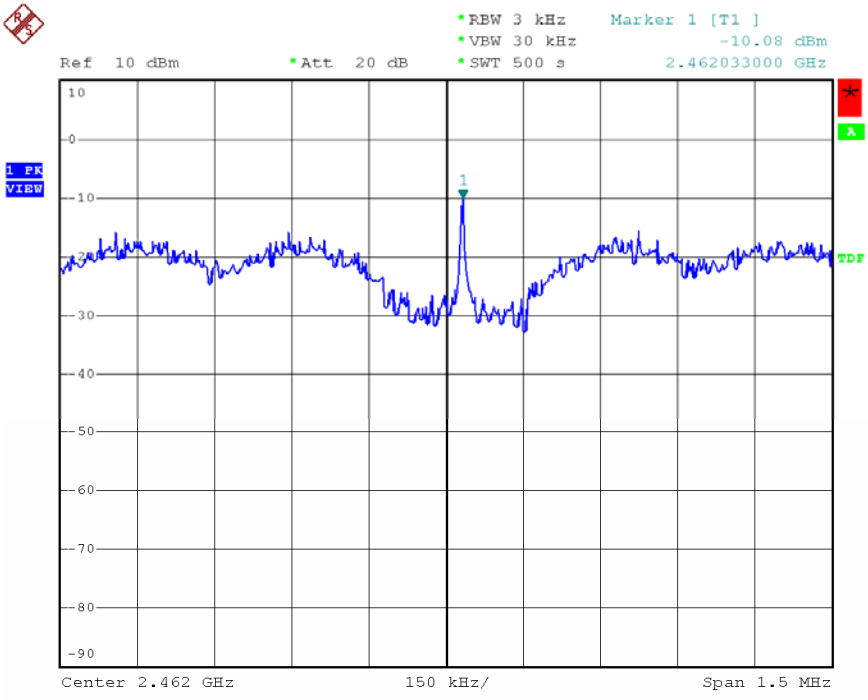
Channel: 11



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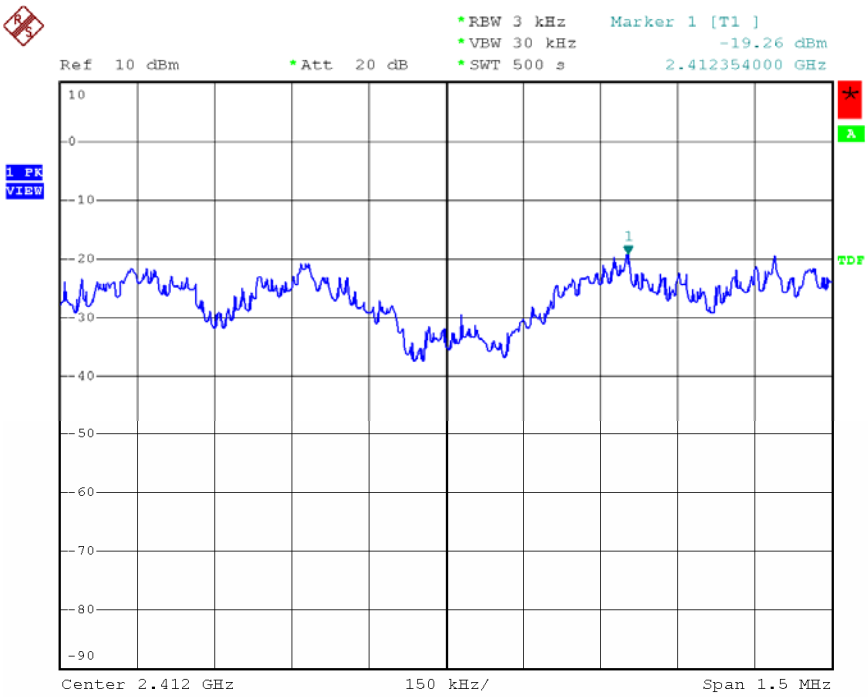
Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
Channel: 01



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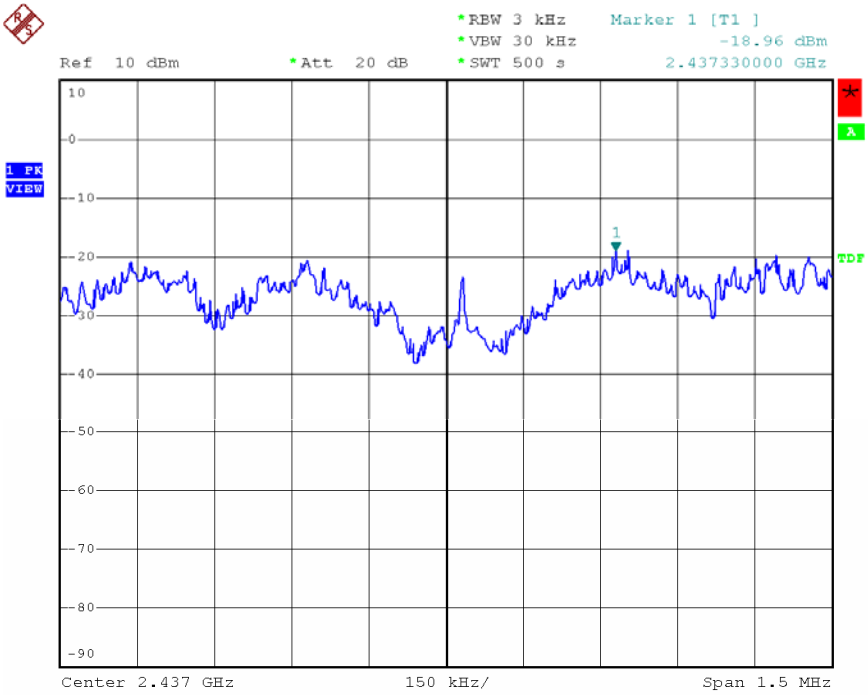
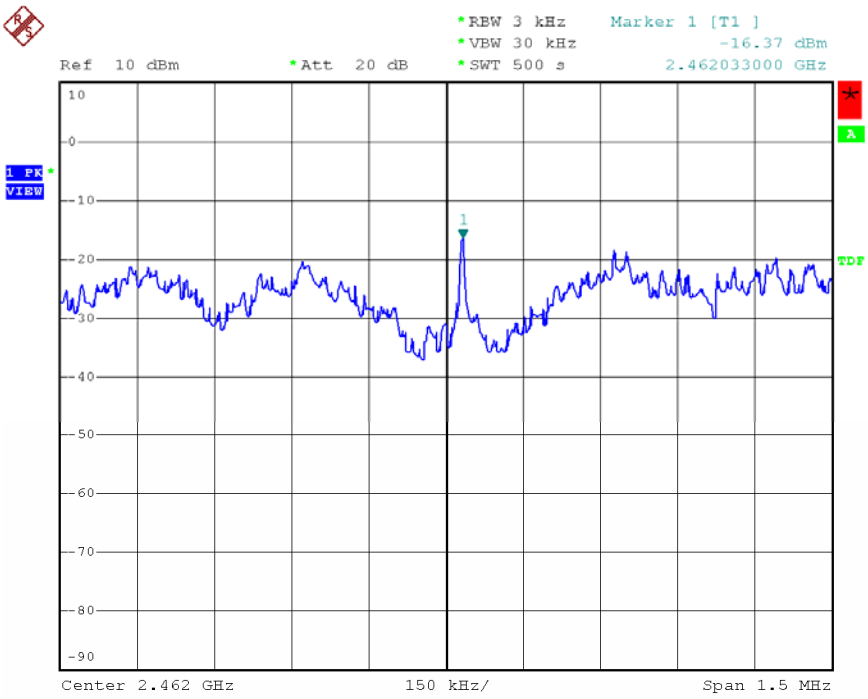
Channel: 06



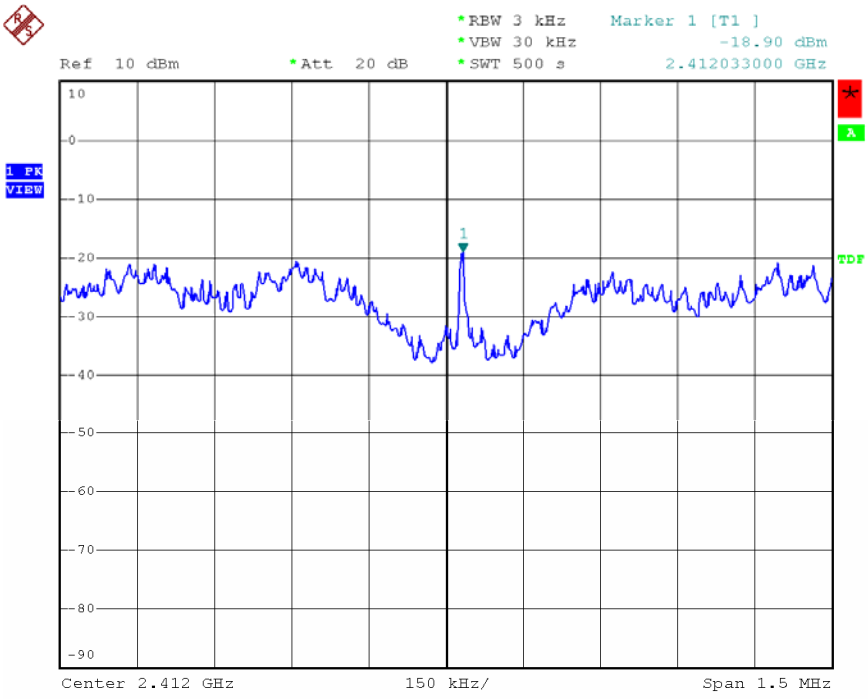
Date: 20.DEC.2007 22:42:05

Channel: 11

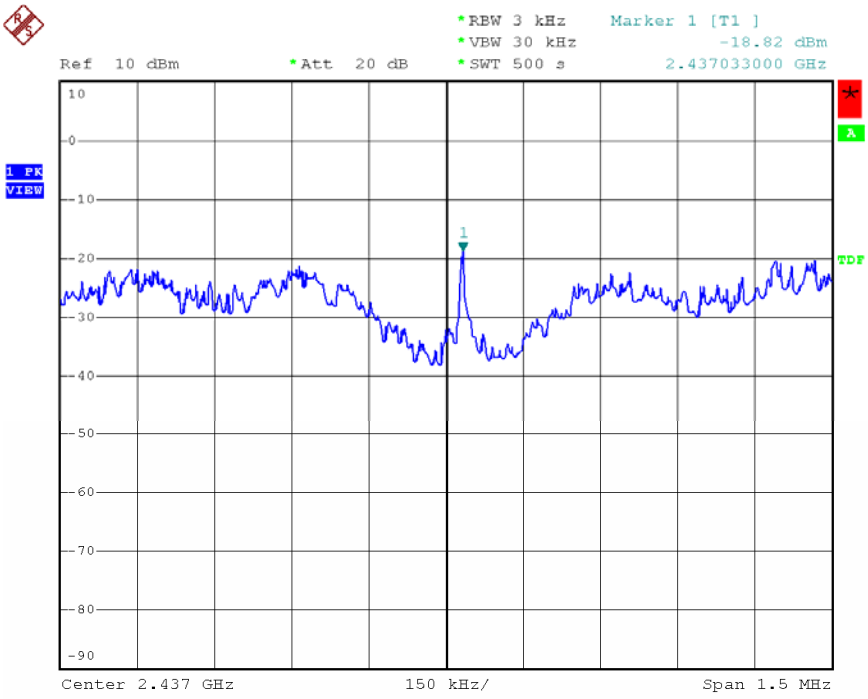


Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1

Channel: 01



Channel: 06



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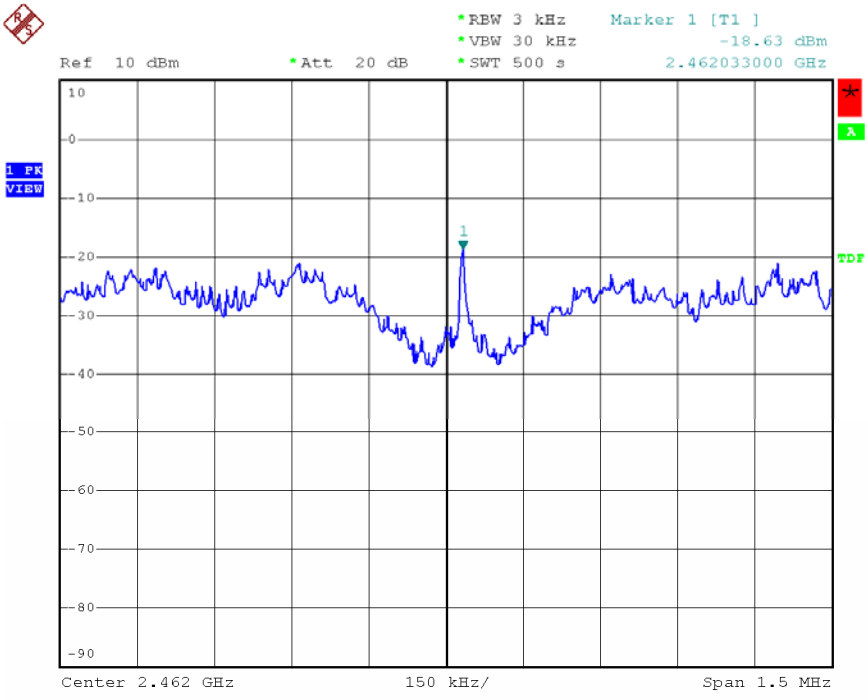
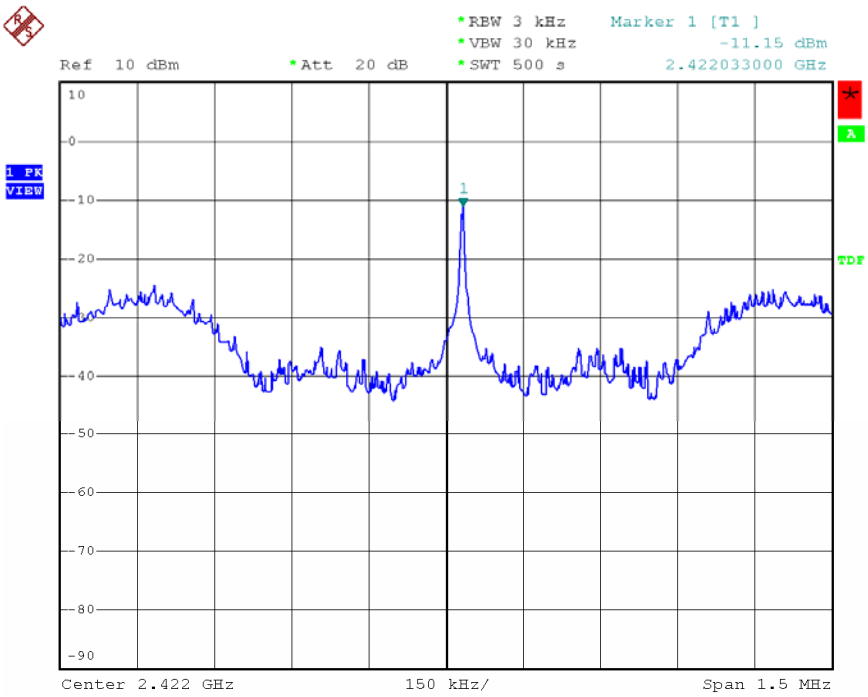
Channel: 11



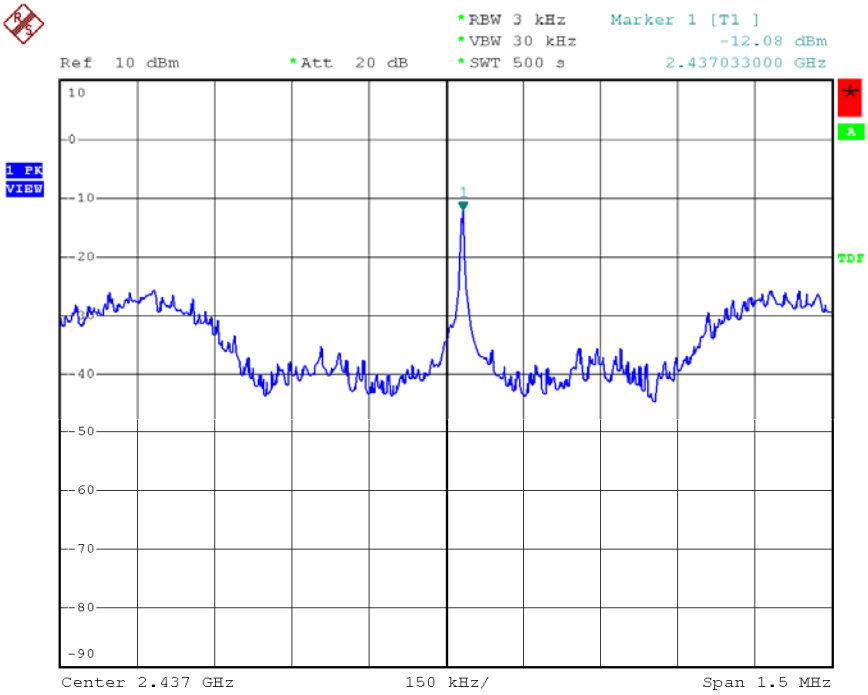
Date: 20.DEC.2007 22:45:49

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
Channel: 03



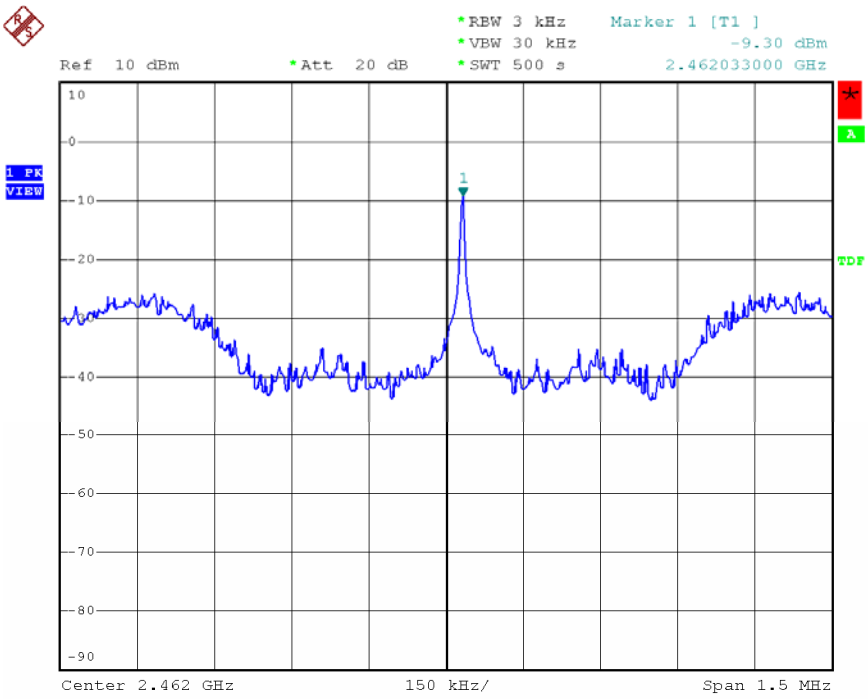
Date: 20.DEC.2007 23:51:53

Channel: 06

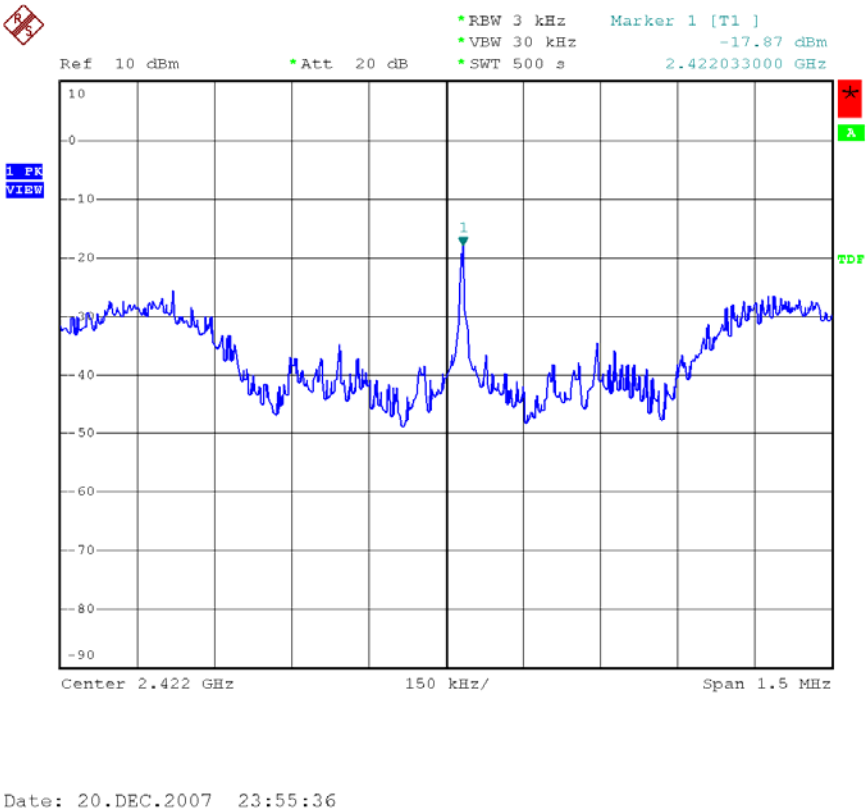


Date: 21.DEC.2007 00:01:07

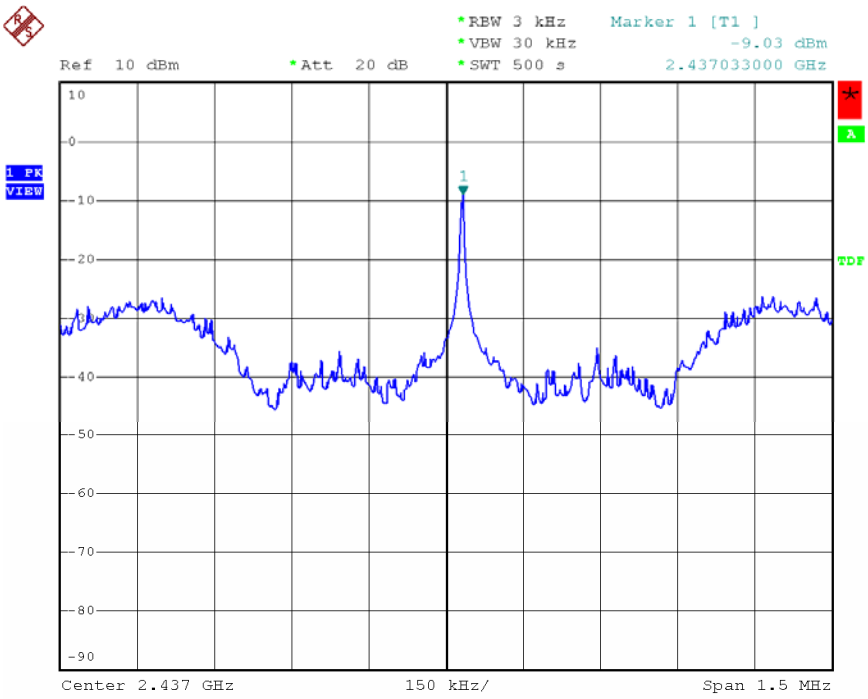
Channel: 09



Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
Channel: 03

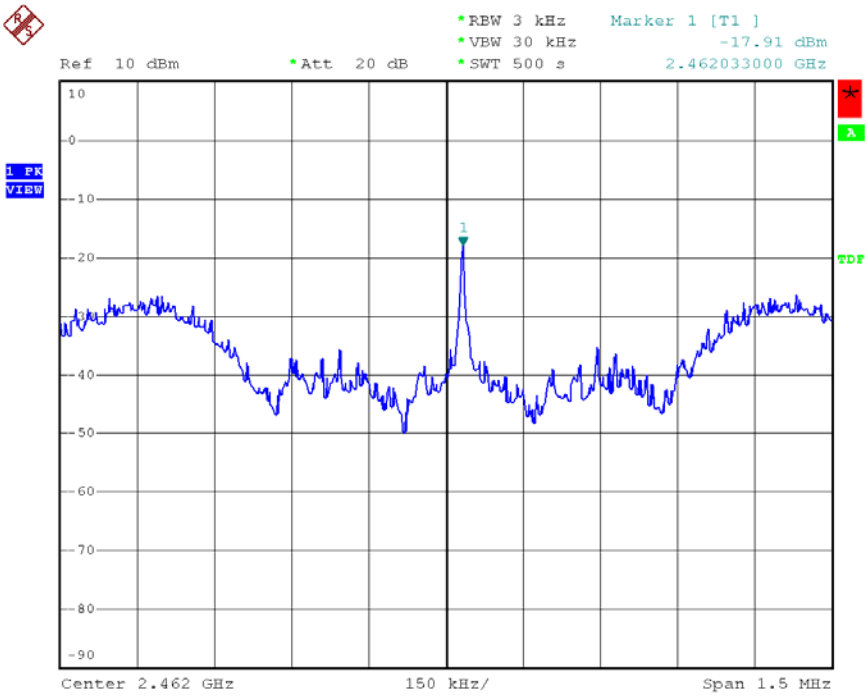


Channel: 06



Date: 20.DEC.2007 23:57:56

Channel: 09



Date: 21.DEC.2007 00:04:47

10. Test of Conducted Emission (For 802.11a device)

10.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 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.

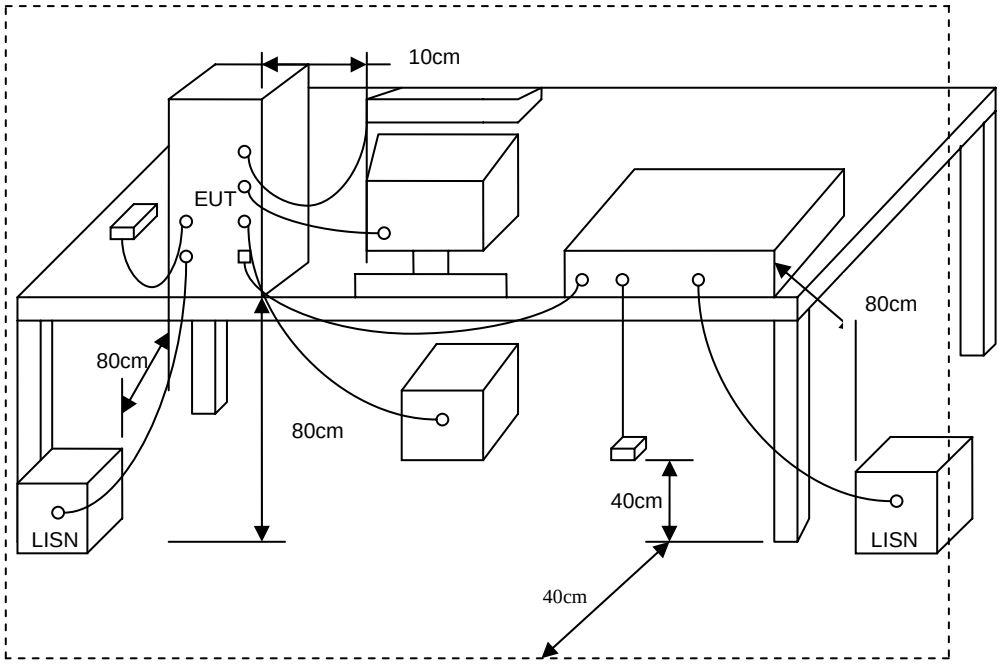
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

10.2 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.

10.3 Typical Test Setup

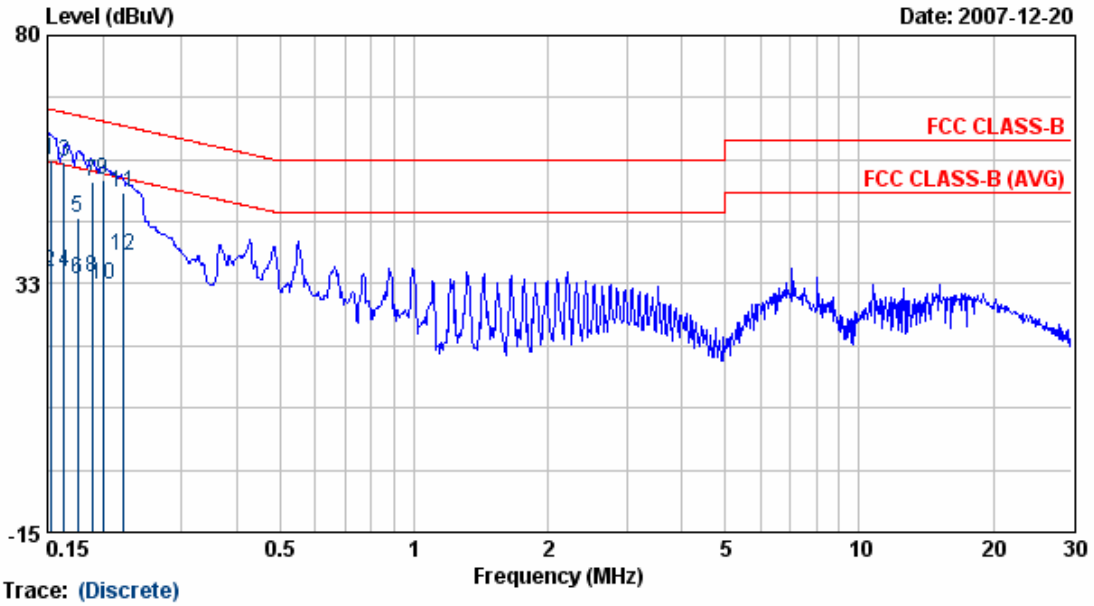


10.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Receiver	R&S	ESCI	100443	2007/09/27	2008/09/26
LISN	NNB-2/16Z	MESS TEC	02/10191	2007/05/14	2008/05/13
LISN	NNB-2/16Z	ROLF HEINE	03/10058	2007/04/19	2008/04/18

10.5 Test Result and Data

Power	:	DC 5V from PC	Pol/Phase	:	LINE
Test Mode 1	:	802.11a CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

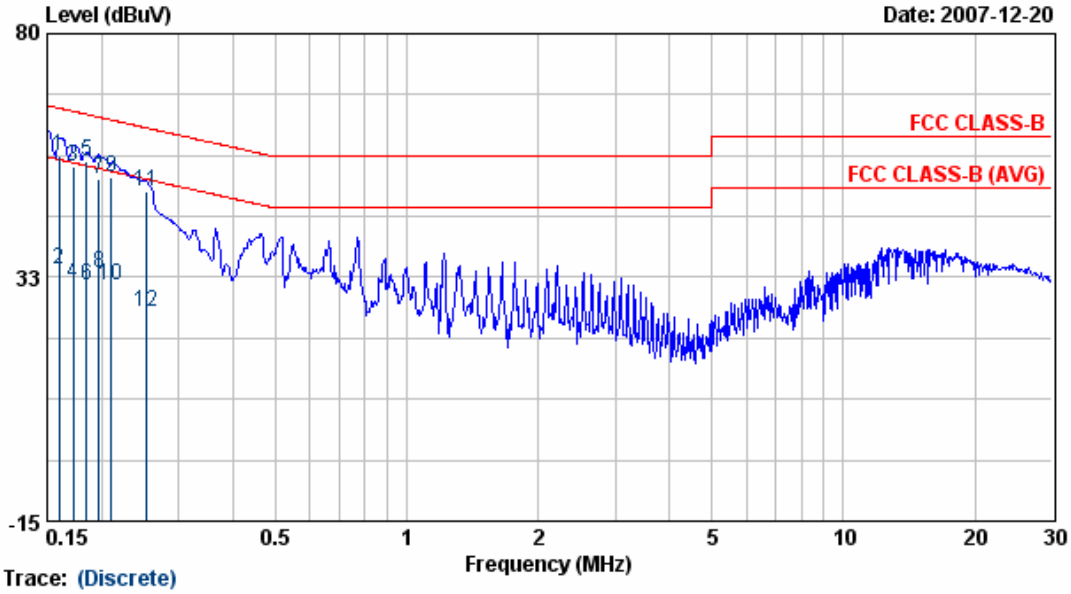


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.12	0.10	56.22	65.85	-9.63	QP
2	0.15	34.51	0.10	34.61	55.85	-21.24	AVERAGE
3	0.16	55.66	0.10	55.76	65.29	-9.53	QP
4	0.16	34.50	0.10	34.60	55.29	-20.69	AVERAGE
5	0.18	45.12	0.10	45.22	64.69	-19.47	QP
6	0.18	33.20	0.10	33.30	54.69	-21.39	AVERAGE
7	0.19	51.99	0.10	52.09	64.08	-11.99	QP
8	0.19	33.61	0.10	33.72	54.08	-20.36	AVERAGE
9	0.20	52.10	0.10	52.20	63.61	-11.41	QP
10	0.20	32.11	0.10	32.21	53.61	-21.40	AVERAGE
11	0.22	49.79	0.11	49.90	62.77	-12.87	QP
12	0.22	37.82	0.11	37.93	52.77	-14.84	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	NEUTRAL
Test Mode 1	:	802.11a CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %

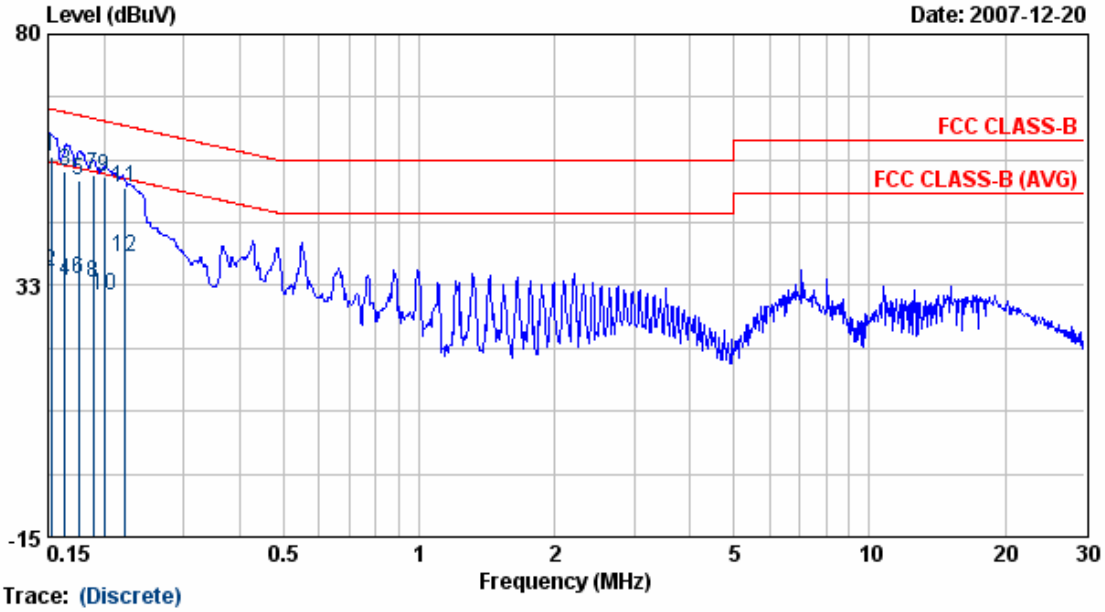


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	55.95	0.09	56.04	65.50	-9.45	QP
2	0.16	33.94	0.09	34.03	55.50	-21.46	AVERAGE
3	0.17	54.12	0.09	54.21	64.87	-10.66	QP
4	0.17	31.37	0.09	31.46	54.87	-23.41	AVERAGE
5	0.18	54.88	0.09	54.97	64.27	-9.29	QP
6	0.18	30.95	0.09	31.04	54.27	-23.22	AVERAGE
7	0.20	51.67	0.09	51.76	63.72	-11.95	QP
8	0.20	33.13	0.09	33.22	53.72	-20.50	AVERAGE
9	0.21	51.95	0.09	52.05	63.18	-11.13	QP
10	0.21	30.85	0.09	30.94	53.18	-22.24	AVERAGE
11	0.25	49.15	0.10	49.25	61.66	-12.41	QP
12	0.25	25.74	0.10	25.84	51.66	-25.82	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
4. The data is worse case.

Power	:	DC 5V from PC	Pol/Phase	:	LINE
Test Mode 1	:	802.11n draft 2.0, 20MHz CH149	Temperature	:	24 °C
Memo	:		Humidity	:	60 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	56.92	0.10	57.02	65.85	-8.83	QP
2	0.15	34.87	0.10	34.97	55.85	-20.88	AVERAGE
3	0.16	54.16	0.10	54.26	65.29	-11.04	QP
4	0.16	33.19	0.10	33.29	55.29	-22.01	AVERAGE
5	0.18	52.17	0.10	52.28	64.69	-12.41	QP
6	0.18	33.65	0.10	33.75	54.69	-20.94	AVERAGE
7	0.19	53.13	0.10	53.23	64.08	-10.85	QP
8	0.19	33.00	0.10	33.10	54.08	-20.97	AVERAGE
9	0.20	52.95	0.10	53.06	63.61	-10.55	QP
10	0.20	30.58	0.10	30.68	53.61	-22.93	AVERAGE
11	0.22	50.99	0.11	51.10	62.77	-11.67	QP
12	0.22	37.65	0.11	37.76	52.77	-15.01	AVERAGE

Remarks: 1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that channel 149 was chosen as representative in final test.
4. The data is worse case.