

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	:	Wireless-N Access Point
Model No.	:	WN802T v2
FCC ID	:	PY308200086
Trade Name	:	NETGEAR

Laboratory Accreditation



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

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CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations

Part 15 Subpart C

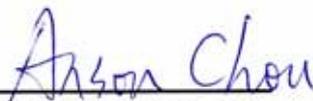
Applicant : NETGEAR, INC.
Address : 4500 GREAT AMERICA PARKWAY,
SANTA CLARA, CA 95054 U.S.A.
Equipment : Wireless-N Access Point
Model No. : WN802T v2
FCC ID : PY308200086

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 (2005)**.

The test was carried out on Aug. 08, 2008 at **Exclusive Certification Corp.**

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
15.209 15.247(d)	. Radiated Emission	Pass
15.247(a)(2)	. 6dB Bandwidth	Pass
15.247(b)	. Maximum Peak Output Power	Pass
15.247(d)	. 100kHz Bandwidth of Frequency Band Edges	Pass
15.247(e)	. Power Spectral Density	Pass
1.1307 1.1310 2.1091 2.1093	. RF Exposure Compliance	Pass

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

802.11n Data Rates (Mbps)	20MHz: 400ms (short): best, 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.6, 115.6, 130, & 144.4 800ms(long): best, 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 13, 26, 39, 52, 78, 104, 117, & 130 40MHz: 400ms (short): best, 15, 30, 45, 60, 90, 120, 135, 150, 30, 60, 90, 120, 180, 240, 270, & 300 800ms (long): best, 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 27, 54, 81, 108, 162, 216, 243, & 270
802.11bg Data Rates	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 & 54 Mbps (Auto-rate capable)
802.11b/bg/ngb Operating Frequencies	2.412 ~ 2.462 GHz (US), 2.457 ~ 2.462 GHz (Spain) 2.412 ~ 2.484 GHz (Japan), 2.457 ~ 2.472 GHz (France) 2.412 ~ 2.472 GHz (Europe ETSI)
802.11b/bg/ng Encryption	40-bit (also called 64-bit), 128-bit WEP data encryption; TKIP (WPA-PSK and WPA) and AES (WPA2-PSK and WPA2)
Network Management	Web-based configuration and status monitoring
Maximum Clients	Limited by the amount of wireless network traffic generated by each node; typically 15 to 20 nodes.
Status LEDs	Power/Ethernet LAN/Wireless LAN
Flash Memory	8 MB
Power Adapter	12V DC, 1.0 A
Environmental Specifications	Operating temperature: 0 to 45° C Operating humidity: 5-95%, non-condensing

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n, HT20

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	12	---

802.11n, HT40

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

2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included remote workstation, PC, Monitor, PS2 Keyboard, USB Mouse, Modem, Printer and EUT for RF test. The remote workstation means Notebook.
- c. An executive program, art.exe under WIN XP, which transmits and receives data to the remote workstation through LAN(1000M) and Wireless.
- d. The following test mode and test software was performed for conduction and radiation test:
 - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
 - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
- e. The following test mode included two kinds of power adapter, and five kinds of modulation types:

Test Mode	Modulation Type	Antenna Number	Adapter Model
Test Mode 1	802.11b+g	ANT R	DSA-12G-12 AUS 120120
Test Mode 2	802.11b+g	ANT L	DSA-12G-12 AUS 120120
Test Mode 3	802.11n HT20	ANT R+ L	DSA-12G-12 AUS 120120
Test Mode 4	802.11n HT40	ANT R+ L	DSA-12G-12 AUS 120120
Test Mode 5	802.11b+g	ANT R	MT12-Y120100-A1
Test Mode 6	802.11b+g	ANT L	MT12-Y120100-A1
Test Mode 7	802.11n HT20	ANT R+ L	MT12-Y120100-A1
Test Mode 8	802.11n HT40	ANT R+ L	MT12-Y120100-A1

- f. For Conducted and Radiated emission test, Test Mode 1, 3, 4, 5, 7, 8 would be chosen to do final test.

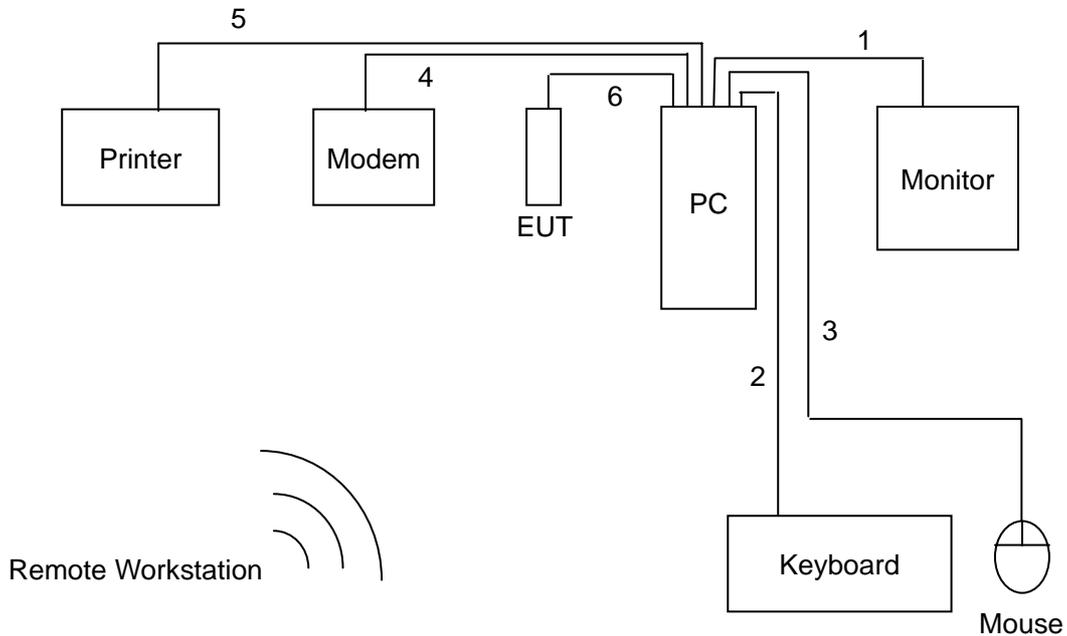
2.4 Description of Test System

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
PS2 Keyboard	IBM	KB-0225	Data Cable, PS2 Shielding 1.85 m
USB 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
Notebook (Remote Workstation)	DELL	PP10L	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Quantity	Description
RJ45	1	Unshielding, 1.5m

2.5 Connection Diagram of Test System



1. The VGA cable is connected from PC to the Monitor.
2. The PS2 cable is connected from PC to the PS2 Keyboard.
3. The USB cable is connected from PC to the USB Mouse.
4. The RS232 cable is connected from PC to the Modem.
5. The Print cable is connected from PC to the Printer.
6. The RJ45 cable is connected from PC to the EUT.

2.6 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. Registration Number: 632249.
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
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 24620MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.7 Measurement Uncertainty

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

3. Antenna Requirements

3.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

3.2 Antenna Construction and Directional Gain

Antenna type: Printed Antenna

Antenna Gain: ANT R: 3.6 dBi (TX)

ANT M: 3.8dBi (RX)

ANT L: 3.1 dBi (TX)

4. Test of Conducted Emission

4.1 Test Limit

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

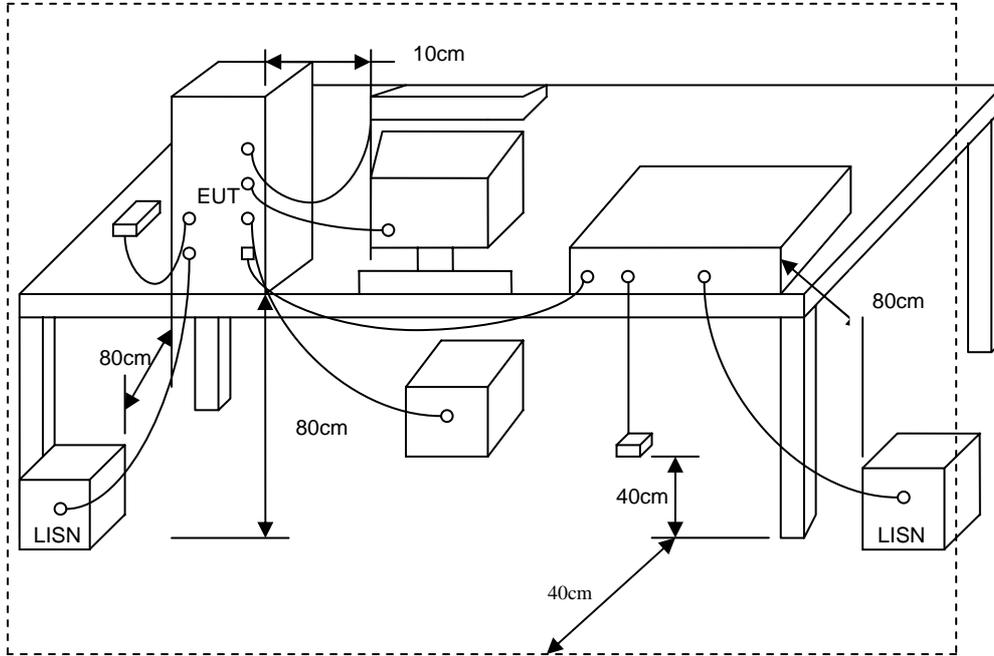
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*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

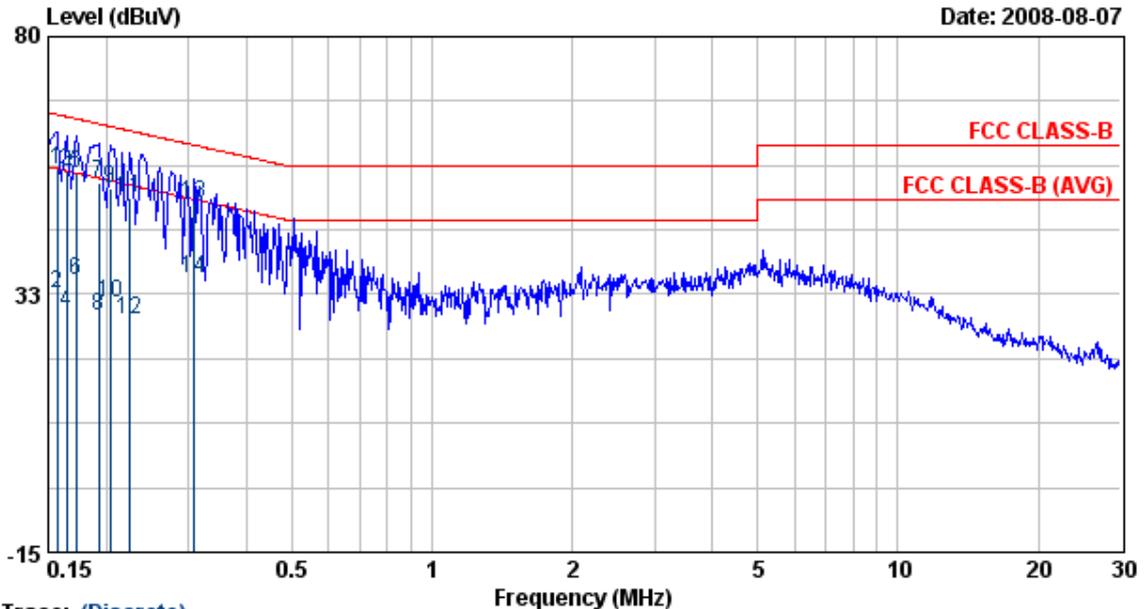


4.4 Measurement equipment

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	2008/06/03	2009/06/02
LISN	NNB-2/16Z	ROLF HEINE	03/10058	2008/04/19	2009/04/18

4.5 Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 1	: 802.11g CH1	Temperature	: 25 °C
Memo	: DSA-12G-12 AUS 120120	Humidity	: 60 %

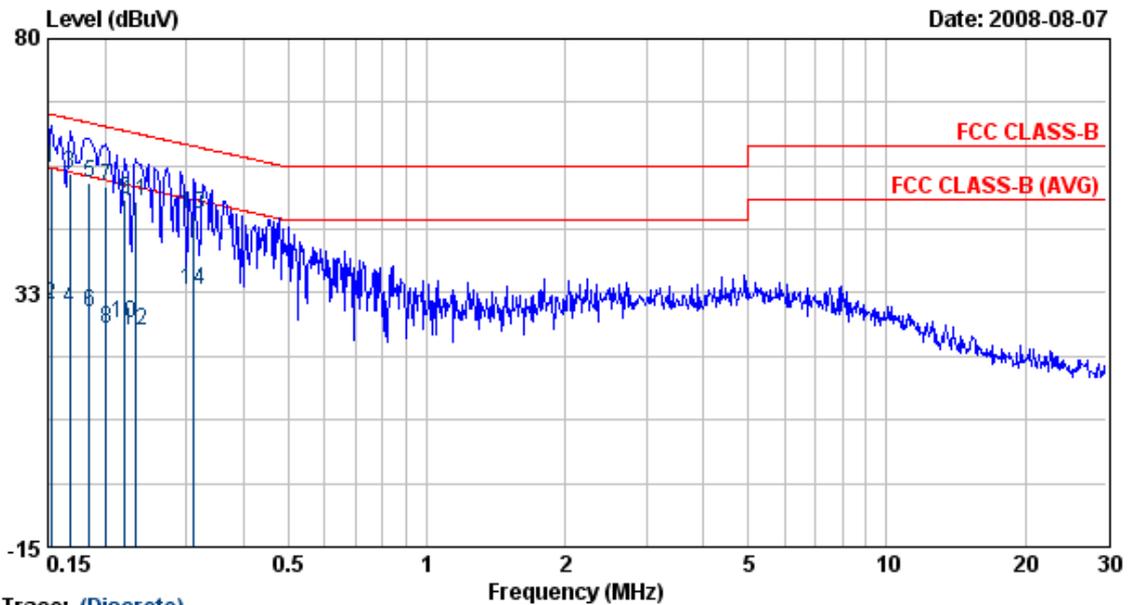


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	55.32	0.10	55.42	65.65	-10.23	QP
2	0.16	32.48	0.10	32.58	55.65	-23.07	AVERAGE
3	0.16	55.04	0.10	55.14	65.25	-10.11	QP
4	0.16	29.19	0.10	29.29	55.25	-25.96	AVERAGE
5	0.17	54.59	0.10	54.69	64.86	-10.16	QP
6	0.17	35.11	0.10	35.22	54.86	-19.64	AVERAGE
7	0.19	52.94	0.10	53.04	63.93	-10.89	QP
8	0.19	28.25	0.10	28.36	53.93	-25.58	AVERAGE
9	0.20	52.03	0.10	52.13	63.45	-11.32	QP
10	0.20	30.74	0.10	30.85	53.45	-22.60	AVERAGE
11	0.22	50.11	0.11	50.22	62.70	-12.48	QP
12	0.22	27.84	0.11	27.94	52.70	-24.76	AVERAGE
13	0.31	49.08	0.12	49.19	60.02	-10.82	QP
14	0.31	35.44	0.12	35.55	50.02	-14.46	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	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11g CH1	Temperature	: 25 °C
Memo	: DSA-12G-12 AUS 120120	Humidity	: 60 %

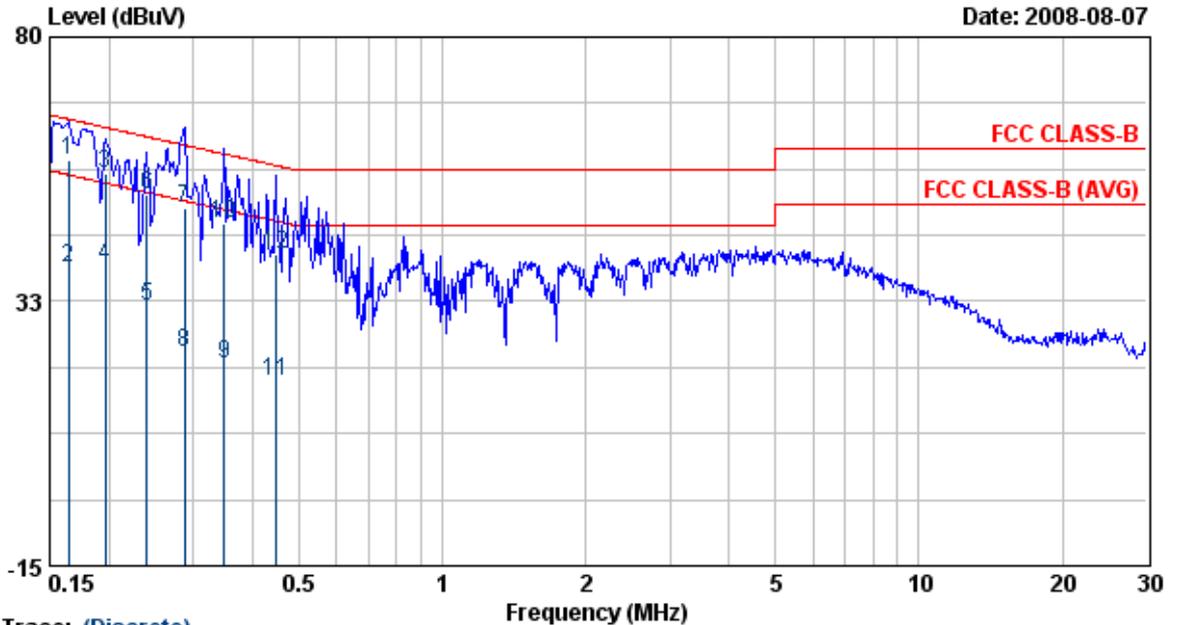


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	55.66	0.09	55.75	65.87	-10.12	QP
2	0.15	30.03	0.09	30.12	55.87	-25.75	AVERAGE
3	0.17	54.70	0.09	54.79	65.08	-10.29	QP
4	0.17	29.50	0.09	29.59	55.08	-25.49	AVERAGE
5	0.18	52.94	0.09	53.03	64.28	-11.25	QP
6	0.18	28.61	0.09	28.70	54.28	-25.58	AVERAGE
7	0.20	52.19	0.09	52.28	63.58	-11.30	QP
8	0.20	25.81	0.09	25.90	53.58	-27.68	AVERAGE
9	0.22	49.91	0.09	50.00	62.79	-12.78	QP
10	0.22	26.81	0.09	26.90	52.79	-25.89	AVERAGE
11	0.23	49.53	0.09	49.63	62.35	-12.72	QP
12	0.23	25.46	0.09	25.55	52.35	-26.80	AVERAGE
13	0.31	47.02	0.10	47.11	59.93	-12.81	QP
14	0.31	33.04	0.10	33.13	49.93	-16.79	AVERAGE

- Remarks:
- Level = Read Level + Factor
 - Factor = LISN(ISN) Factor + Cable Loss
 - All emission below 1GHz at 802.11g mode are all the same,so the 802.11g mode chosen as representative in final test.
 - 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.
 - The data is worse case.

Power	: AC 120V	Pol/Phase	: LINE
Test Mode 3	: 802.11n HT20 CH1	Temperature	: 25 °C
Memo	: DSA-12G-12 AUS 120120	Humidity	: 60 %



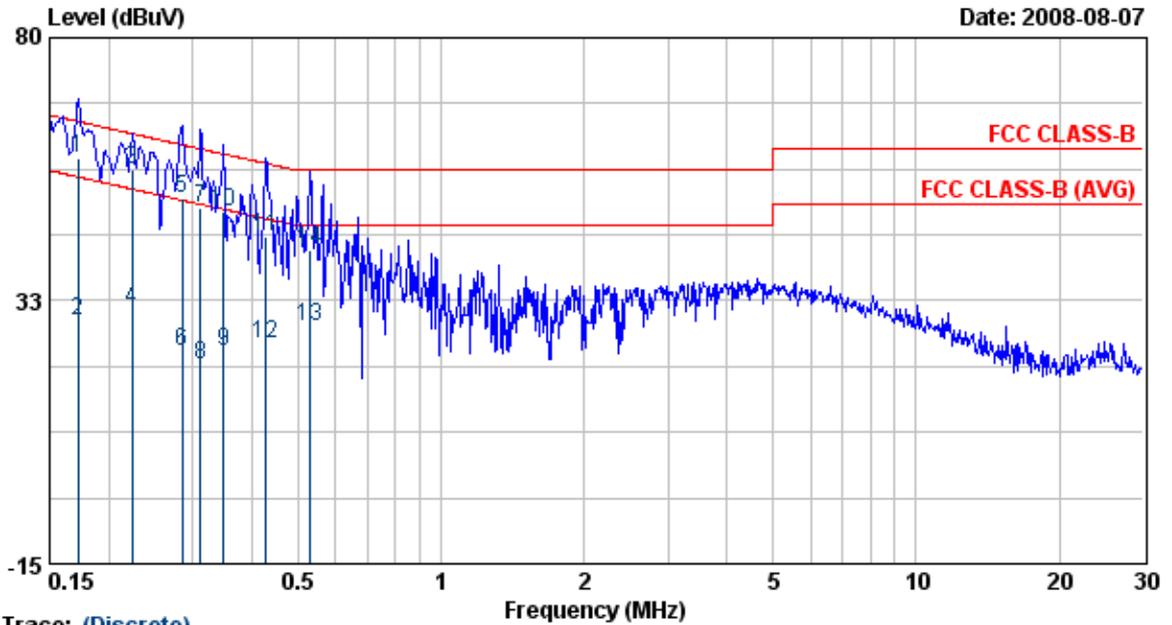
Trace: (Discrete)

Item	Freq MHz	Read Value dBuV	Factor dB	Result dBuV	Limit dBuV	Margin dBuV	Remark
1	0.16	57.93	0.10	58.03	65.25	-7.22	QP
2	0.16	38.52	0.10	38.62	55.25	-16.63	AVERAGE
3	0.20	55.40	0.10	55.50	63.76	-8.26	QP
4	0.20	38.65	0.10	38.76	53.76	-15.00	AVERAGE
5	0.24	31.53	0.11	31.64	52.08	-20.44	AVERAGE
6	0.24	51.39	0.11	51.50	62.08	-10.58	QP
7	0.29	49.18	0.11	49.29	60.59	-11.29	QP
8	0.29	23.22	0.11	23.33	50.59	-27.25	AVERAGE
9	0.35	21.10	0.11	21.21	49.00	-27.79	AVERAGE
10	0.35	46.28	0.11	46.39	59.00	-12.61	QP
11	0.45	18.03	0.11	18.14	46.93	-28.79	AVERAGE
12	0.45	40.81	0.11	40.93	56.93	-16.01	QP

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	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 3	: 802.11n HT20 CH1	Temperature	: 25 °C
Memo	: DSA-12G-12 AUS 120120	Humidity	: 60 %



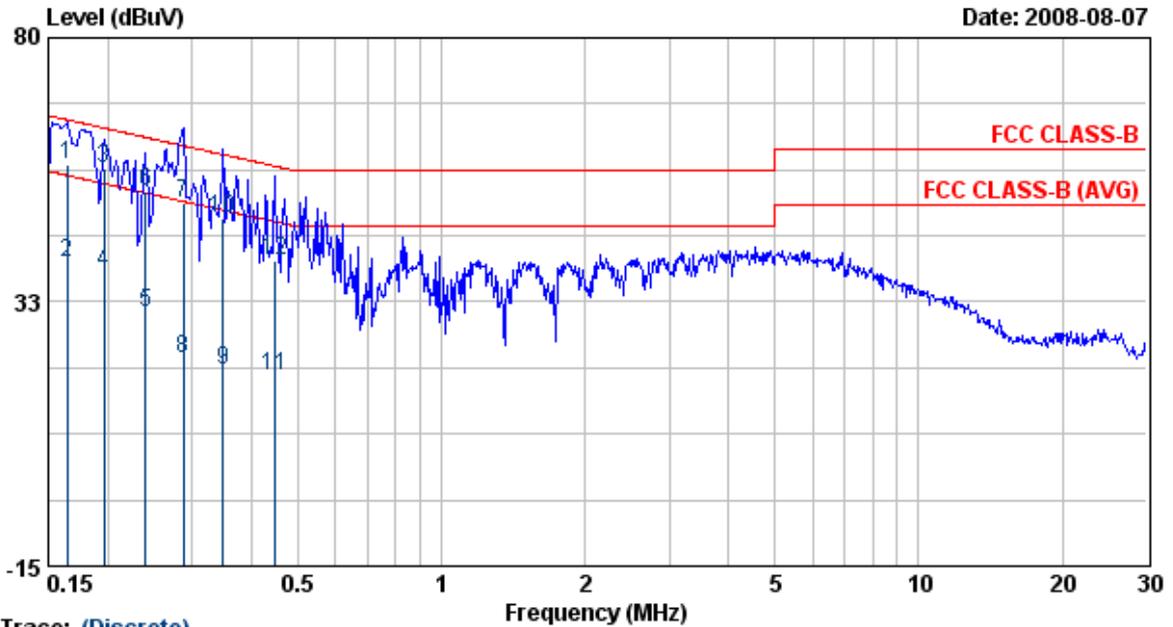
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.17	58.01	0.09	58.10	64.86	-6.76	QP
2	0.17	28.75	0.09	28.84	54.86	-26.01	AVERAGE
3	0.22	56.20	0.09	56.29	62.70	-6.41	QP
4	0.22	30.75	0.09	30.84	52.70	-21.86	AVERAGE
5	0.28	50.91	0.10	51.00	60.68	-9.67	QP
6	0.28	23.18	0.10	23.27	50.68	-27.40	AVERAGE
7	0.31	49.18	0.10	49.28	59.93	-10.65	QP
8	0.31	20.86	0.10	20.96	49.93	-28.97	AVERAGE
9	0.35	23.41	0.10	23.50	49.00	-25.50	AVERAGE
10	0.35	48.43	0.10	48.52	59.00	-10.48	QP
11	0.43	44.11	0.10	44.22	57.29	-13.07	QP
12	0.43	24.59	0.10	24.70	47.29	-22.59	AVERAGE
13	0.53	27.80	0.11	27.91	46.00	-18.09	AVERAGE
14	0.53	41.63	0.11	41.74	56.00	-14.26	QP

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	: AC 120V	Pol/Phase	: LINE
Test Mode 4	: 802.11n HT40 CH3	Temperature	: 25 °C
Memo	: DSA-12G-12 AUS 120120	Humidity	: 60 %



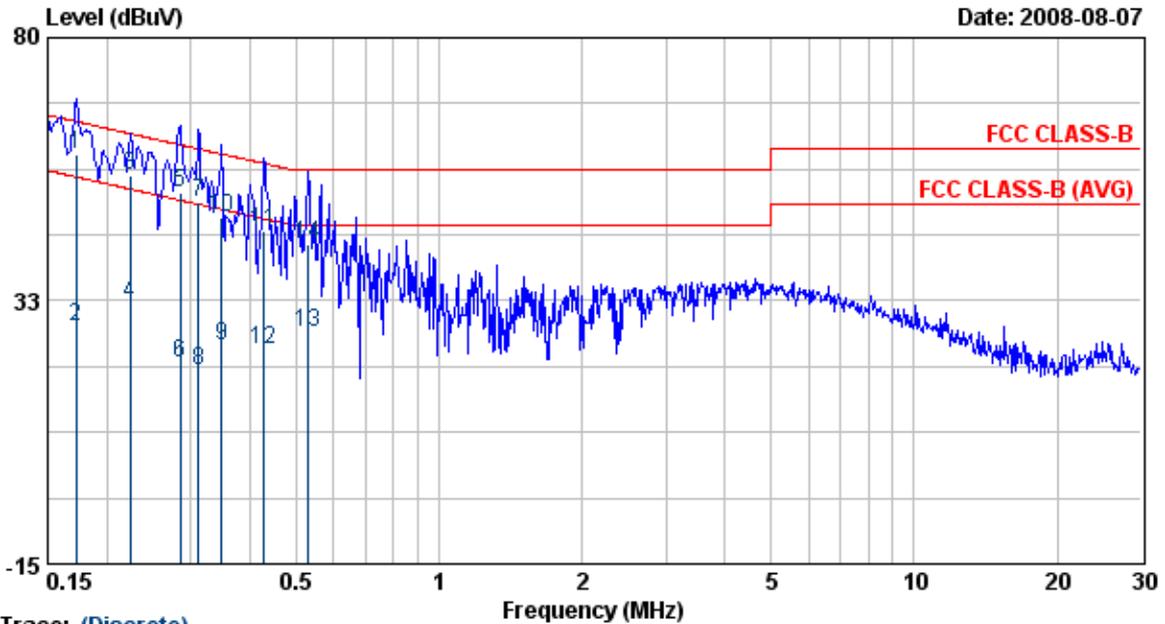
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	56.93	0.10	57.03	65.25	-8.22	QP
2	0.16	39.52	0.10	39.62	55.25	-15.63	AVERAGE
3	0.20	56.40	0.10	56.50	63.76	-7.26	QP
4	0.20	37.65	0.10	37.76	53.76	-16.00	AVERAGE
5	0.24	30.53	0.11	30.64	52.08	-21.44	AVERAGE
6	0.24	52.39	0.11	52.50	62.08	-9.58	QP
7	0.29	50.18	0.11	50.29	60.59	-10.29	QP
8	0.29	22.22	0.11	22.33	50.59	-28.25	AVERAGE
9	0.35	20.10	0.11	20.21	49.00	-28.79	AVERAGE
10	0.35	47.28	0.11	47.39	59.00	-11.61	QP
11	0.45	19.03	0.11	19.14	46.93	-27.79	AVERAGE
12	0.45	39.81	0.11	39.93	56.93	-17.01	QP

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	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 4	: 802.11n HT40 CH3	Temperature	: 25 °C
Memo	: DSA-12G-12 AUS 120120	Humidity	: 60 %



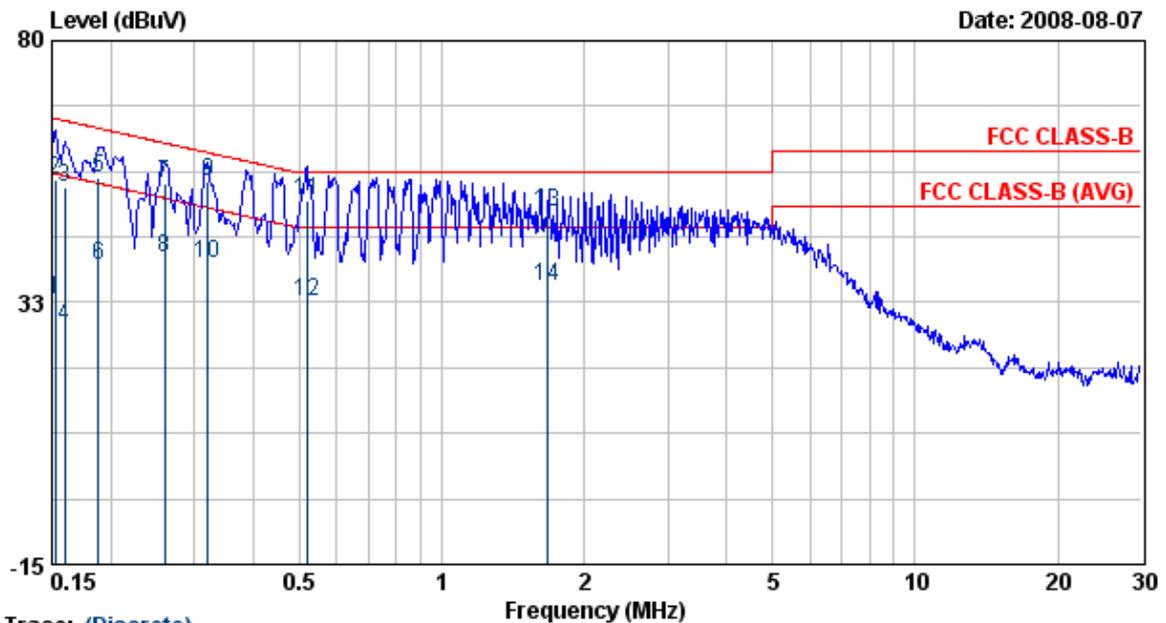
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.17	59.01	0.09	59.10	64.86	-5.76	QP
2	0.17	27.75	0.09	27.84	54.86	-27.01	AVERAGE
3	0.22	55.20	0.09	55.29	62.70	-7.41	QP
4	0.22	31.75	0.09	31.84	52.70	-20.86	AVERAGE
5	0.28	51.91	0.10	52.00	60.68	-8.67	QP
6	0.28	21.18	0.10	21.27	50.68	-29.40	AVERAGE
7	0.31	50.18	0.10	50.28	59.93	-9.65	QP
8	0.31	19.86	0.10	19.96	49.93	-29.97	AVERAGE
9	0.35	24.41	0.10	24.50	49.00	-24.50	AVERAGE
10	0.35	47.43	0.10	47.52	59.00	-11.48	QP
11	0.43	45.11	0.10	45.22	57.29	-12.07	QP
12	0.43	23.59	0.10	23.70	47.29	-23.59	AVERAGE
13	0.53	26.80	0.11	26.91	46.00	-19.09	AVERAGE
14	0.53	42.63	0.11	42.74	56.00	-13.26	QP

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	: AC 120V	Pol/Phase	: LINE
Test Mode 5	: 802.11g CH1	Temperature	: 25 °C
Memo	: MT12-Y120100-A1	Humidity	: 60 %

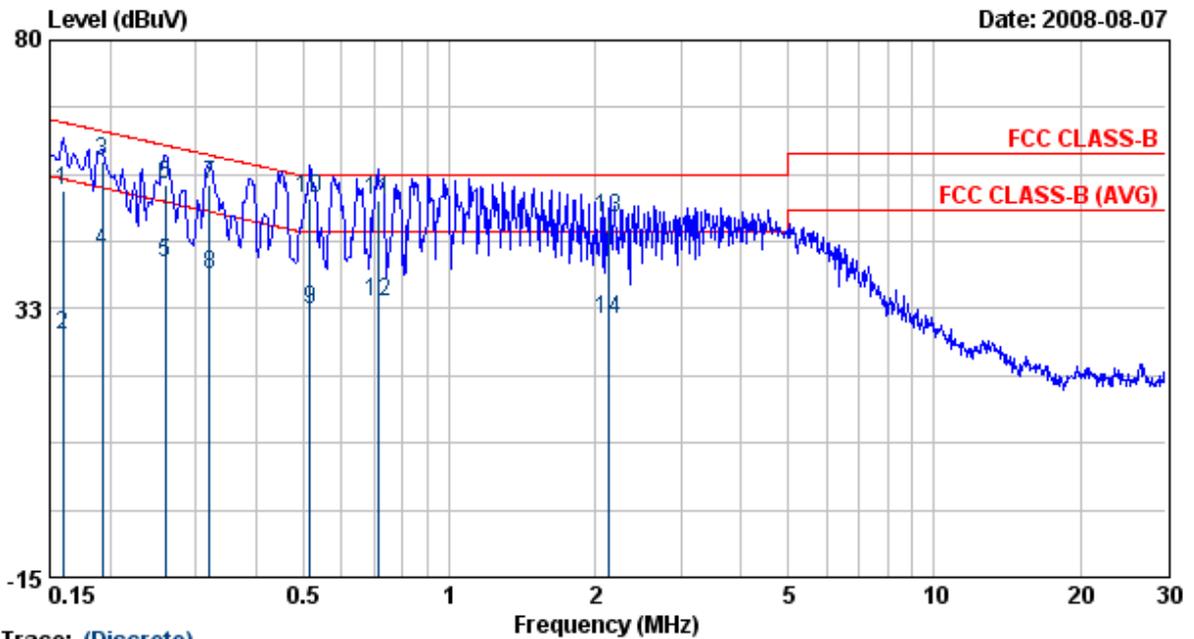


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	32.90	0.10	33.00	55.87	-22.87	AVERAGE
2	0.15	54.81	0.10	54.91	65.87	-10.96	QP
3	0.16	53.16	0.10	53.26	65.47	-12.21	QP
4	0.16	28.20	0.10	28.30	55.47	-27.17	AVERAGE
5	0.19	54.98	0.10	55.08	64.11	-9.03	QP
6	0.19	38.98	0.10	39.09	54.11	-15.02	AVERAGE
7	0.26	54.03	0.11	54.14	61.42	-7.28	QP
8	0.26	40.34	0.11	40.45	51.42	-10.97	AVERAGE
9	0.32	54.22	0.11	54.34	59.71	-5.37	QP
10	0.32	39.46	0.11	39.58	49.71	-10.13	AVERAGE
11	0.52	51.02	0.12	51.14	56.00	-4.86	QP
12	0.52	32.50	0.12	32.62	46.00	-13.38	AVERAGE
13	1.67	48.65	0.18	48.84	56.00	-7.16	QP
14	1.67	35.30	0.18	35.48	46.00	-10.52	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	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 5	: 802.11g CH1	Temperature	: 25 °C
Memo	: MT12-Y120100-A1	Humidity	: 60 %

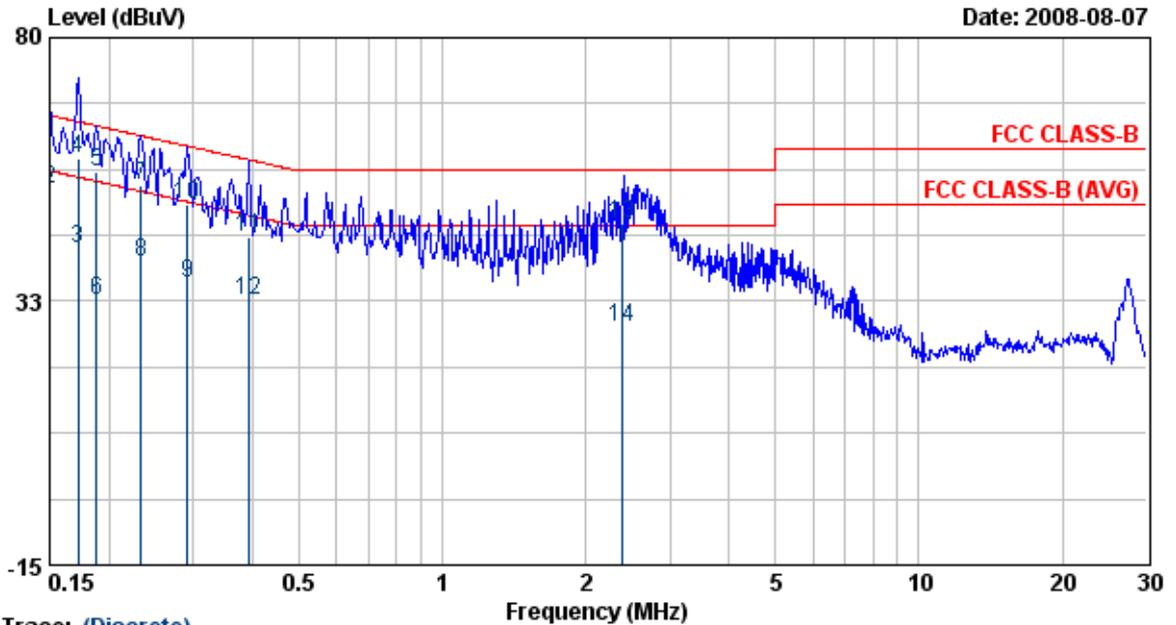


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.16	53.46	0.09	53.55	65.47	-11.92	QP
2	0.16	27.67	0.09	27.76	55.47	-27.71	AVERAGE
3	0.19	58.37	0.09	58.46	63.93	-5.47	QP
4	0.19	42.52	0.09	42.61	53.93	-11.32	AVERAGE
5	0.26	40.59	0.09	40.68	51.42	-10.74	AVERAGE
6	0.26	54.27	0.09	54.36	61.42	-7.06	QP
7	0.32	54.49	0.10	54.59	59.71	-5.12	QP
8	0.32	38.52	0.10	38.62	49.71	-11.09	AVERAGE
9	0.52	32.33	0.11	32.44	46.00	-13.56	AVERAGE
10	0.52	51.89	0.11	52.00	56.00	-4.00	QP
11	0.71	51.61	0.13	51.74	56.00	-4.26	QP
12	0.71	33.60	0.13	33.73	46.00	-12.27	AVERAGE
13	2.13	48.43	0.20	48.63	56.00	-7.37	QP
14	2.13	30.36	0.20	30.56	46.00	-15.44	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	: AC 120V	Pol/Phase	: LINE
Test Mode 7	: 802.11n HT20 CH1	Temperature	: 25 °C
Memo	: MT12-Y120100-A1	Humidity	: 60 %



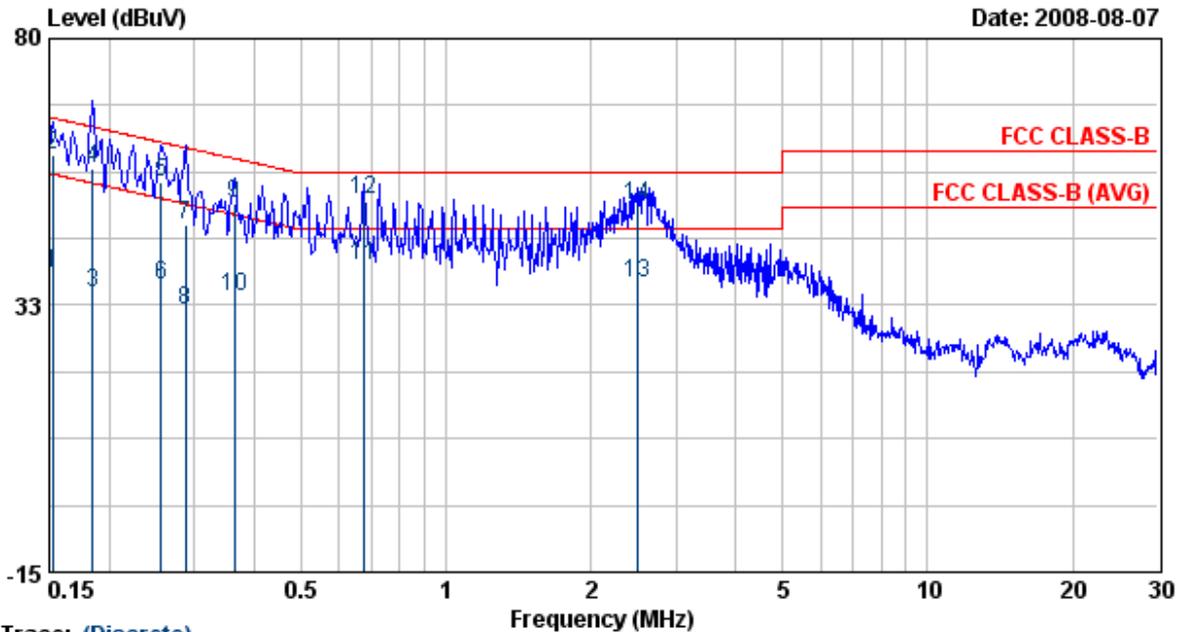
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	40.29	0.10	40.39	56.00	-15.61	AVERAGE
2	0.15	52.56	0.10	52.66	66.00	-13.34	QP
3	0.17	41.96	0.10	42.06	54.86	-12.80	AVERAGE
4	0.17	58.02	0.10	58.13	64.86	-6.73	QP
5	0.19	55.87	0.10	55.98	64.11	-8.13	QP
6	0.19	32.53	0.10	32.64	54.11	-21.47	AVERAGE
7	0.23	53.17	0.11	53.28	62.35	-9.07	QP
8	0.23	39.60	0.11	39.71	52.35	-12.64	AVERAGE
9	0.29	35.65	0.12	35.76	50.48	-14.72	AVERAGE
10	0.29	49.70	0.12	49.81	60.48	-10.67	QP
11	0.39	43.87	0.11	43.98	58.03	-14.05	QP
12	0.39	32.73	0.11	32.84	48.03	-15.20	AVERAGE
13	2.38	46.13	0.21	46.34	56.00	-9.66	QP
14	2.38	27.51	0.21	27.72	46.00	-18.28	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	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 7	: 802.11n HT20 CH1	Temperature	: 25 °C
Memo	: MT12-Y120100-A1	Humidity	: 60 %



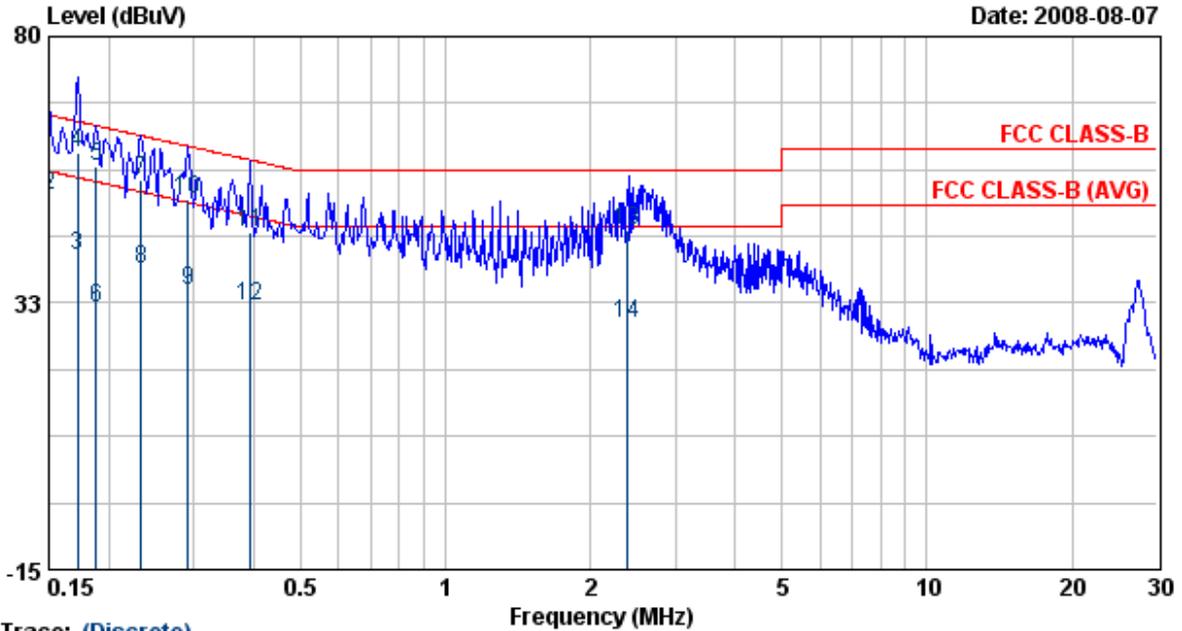
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	37.98	0.09	38.07	55.87	-17.80	AVERAGE
2	0.15	59.26	0.09	59.35	65.87	-6.51	QP
3	0.18	34.64	0.09	34.73	54.28	-19.56	AVERAGE
4	0.18	56.73	0.09	56.82	64.28	-7.46	QP
5	0.26	54.39	0.09	54.48	61.56	-7.07	QP
6	0.26	36.05	0.09	36.14	51.56	-15.42	AVERAGE
7	0.29	46.60	0.10	46.69	60.59	-13.89	QP
8	0.29	31.42	0.10	31.51	50.59	-19.08	AVERAGE
9	0.36	50.71	0.10	50.80	58.65	-7.85	QP
10	0.36	33.87	0.10	33.97	48.65	-14.68	AVERAGE
11	0.68	39.30	0.12	39.42	46.00	-6.58	AVERAGE
12	0.68	51.19	0.12	51.31	56.00	-4.69	QP
13	2.49	36.38	0.21	36.59	46.00	-9.41	AVERAGE
14	2.49	49.97	0.21	50.18	56.00	-5.82	QP

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	: AC 120V	Pol/Phase	: LINE
Test Mode 8	: 802.11n HT40 CH3	Temperature	: 25 °C
Memo	: MT12-Y120100-A1	Humidity	: 60 %



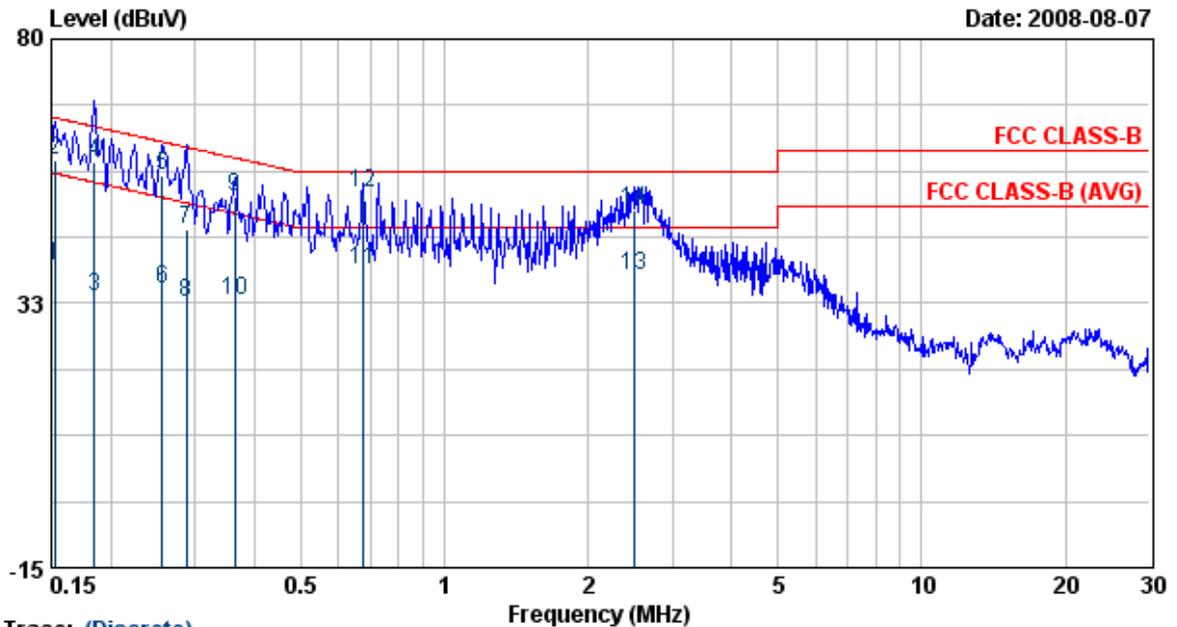
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	41.29	0.10	41.39	56.00	-14.61	AVERAGE
2	0.15	51.56	0.10	51.66	66.00	-14.34	QP
3	0.17	40.96	0.10	41.06	54.86	-13.80	AVERAGE
4	0.17	59.02	0.10	59.13	64.86	-5.73	QP
5	0.19	56.87	0.10	56.98	64.11	-7.13	QP
6	0.19	31.53	0.10	31.64	54.11	-22.47	AVERAGE
7	0.23	54.17	0.11	54.28	62.35	-8.07	QP
8	0.23	38.60	0.11	38.71	52.35	-13.64	AVERAGE
9	0.29	34.65	0.12	34.76	50.48	-15.72	AVERAGE
10	0.29	50.70	0.12	50.81	60.48	-9.67	QP
11	0.39	44.87	0.11	44.98	58.03	-13.05	QP
12	0.39	31.73	0.11	31.84	48.03	-16.20	AVERAGE
13	2.38	45.13	0.21	45.34	56.00	-10.66	QP
14	2.38	28.51	0.21	28.72	46.00	-17.28	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	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode 4	: 802.11n HT40 CH3	Temperature	: 25 °C
Memo	: MT12-Y120100-A1	Humidity	: 60 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.15	38.98	0.09	39.07	55.87	-16.80	AVERAGE
2	0.15	58.26	0.09	58.35	65.87	-7.51	QP
3	0.18	33.64	0.09	33.73	54.28	-20.56	AVERAGE
4	0.18	57.73	0.09	57.82	64.28	-6.46	QP
5	0.26	55.39	0.09	55.48	61.56	-6.07	QP
6	0.26	35.05	0.09	35.14	51.56	-16.42	AVERAGE
7	0.29	45.60	0.10	45.69	60.59	-14.89	QP
8	0.29	32.42	0.10	32.51	50.59	-18.08	AVERAGE
9	0.36	51.71	0.10	51.80	58.65	-6.85	QP
10	0.36	32.87	0.10	32.97	48.65	-15.68	AVERAGE
11	0.68	38.30	0.12	38.42	46.00	-7.58	AVERAGE
12	0.68	52.19	0.12	52.31	56.00	-3.69	QP
13	2.49	37.38	0.21	37.59	46.00	-8.41	AVERAGE
14	2.49	48.97	0.21	49.18	56.00	-6.82	QP

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

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

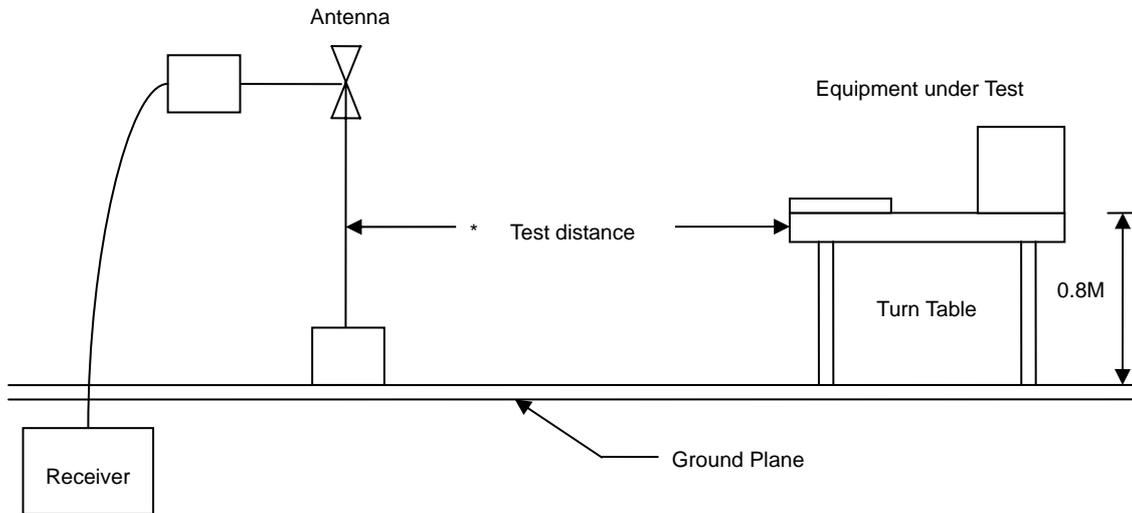
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

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

5.2 Test Procedures

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

5.3 Typical Test Setup



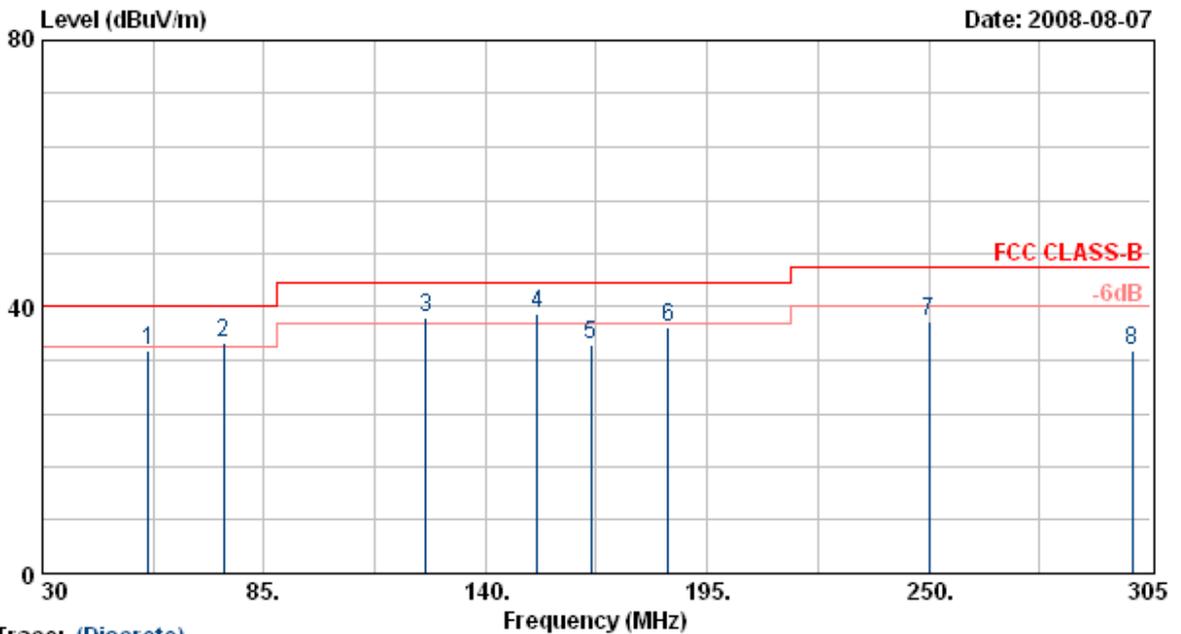
5.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Bilog Antenna	CBL6112B	Schaffner	2840	2008/05/15	2009/05/14
Signal Generator	8648B	HP	3629U00612	2007/10/09	2008/10/08
Amplifier	8447D	Agilent	2944A10593	2008/05/26	2009/05/25
EMI Receiver	SCR-3501	SCHAFFNER	437	2007/11/26	2008/11/25
Spectrum	FSP40	R&S	100047	2008/02/22	2009/02/21
Horn Antenna	3115	EMCO	31589	2008/04/01	2009/03/30
Amplifier	8449B	Agilent	3008A01954	2008/01/24	2009/01/23

5.5 Test Result and Data

Test Mode 1

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



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	56.40	49.52	-16.10	33.42	40.00	-6.58	Peak	100	88
2	75.10	51.95	-17.32	34.63	40.00	-5.37	QP	100	90
3	125.15	51.60	-13.34	38.26	43.50	-5.24	QP	100	90
4	152.93	51.00	-11.90	39.10	43.50	-4.40	QP	100	90
5	166.13	47.32	-12.99	34.33	43.50	-9.17	Peak	100	87
6	185.38	46.51	-9.63	36.88	43.50	-6.62	Peak	100	102
7	250.00	50.77	-13.04	37.73	46.00	-8.27	Peak	100	102
8	300.60	42.79	-9.33	33.46	46.00	-12.54	Peak	100	77

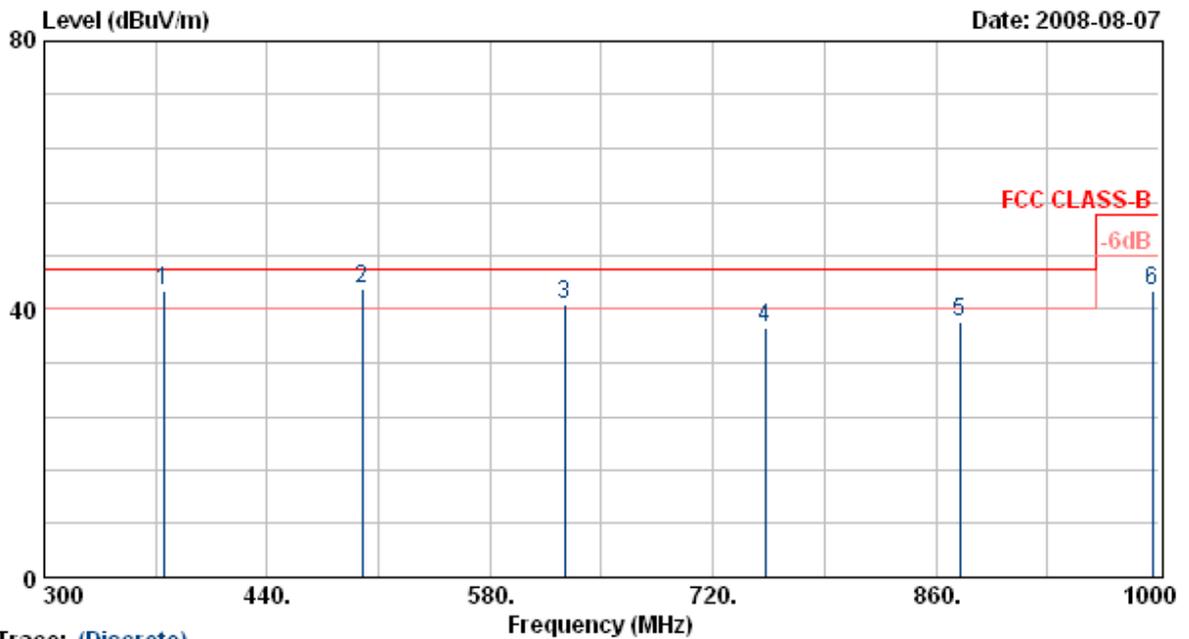
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 1
Modulation Type : 802.11g
Rate         : 6 Mbps
Memo         : DSA-12G-12 AUS 120120

Pol/Phase     : VERTICAL
Temperature   : 30 °C
Humidity      : 65 %
Atmospheric Pressure: 1020 hPa
    
```



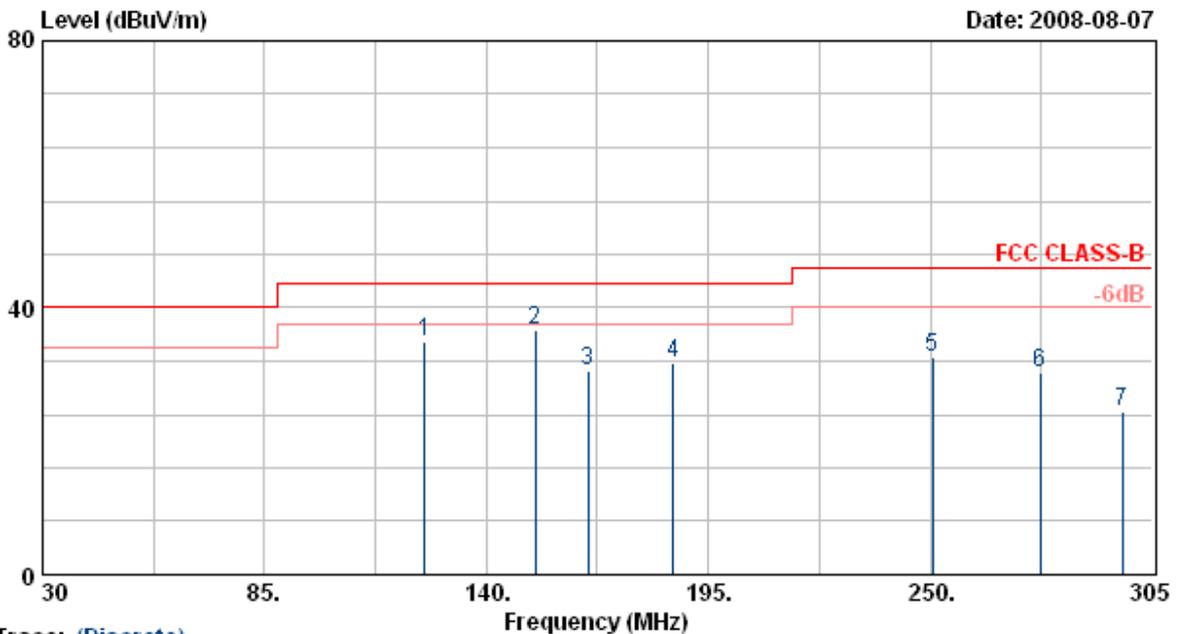
Trace: (Discrete)

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	374.90	51.68	-8.87	42.81	46.00	-3.19	QP	100	108
2	499.90	47.79	-4.87	42.92	46.00	-3.08	QP	100	108
3	627.00	44.21	-3.57	40.64	46.00	-5.36	QP	100	100
4	752.90	36.90	0.38	37.28	46.00	-8.72	Peak	100	100
5	874.98	36.17	1.81	37.98	46.00	-8.02	Peak	100	99
6	995.80	38.00	4.78	42.78	54.00	-11.22	Peak	100	99

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. 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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



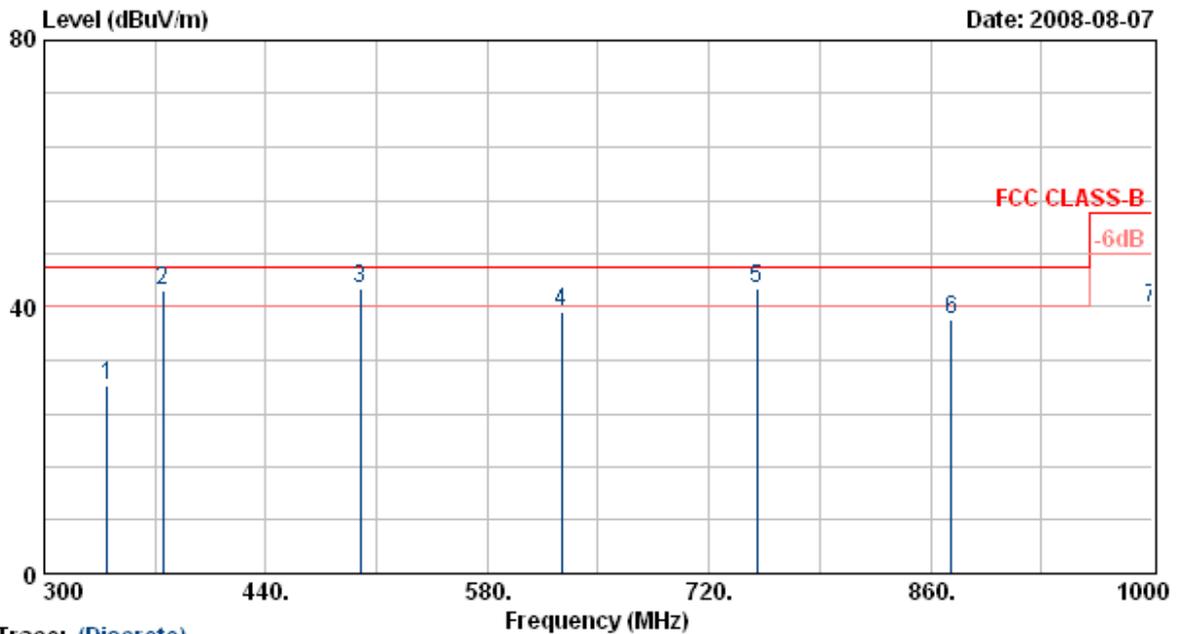
Trace: (Discrete)

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	124.60	54.38	-19.46	34.92	43.50	-8.58	Peak	100	88
2	152.10	54.11	-17.55	36.56	43.50	-6.94	Peak	100	65
3	165.30	49.38	-18.88	30.50	43.50	-13.00	Peak	100	93
4	186.20	49.29	-17.53	31.76	43.50	-11.74	Peak	100	93
5	250.55	50.20	-17.50	32.70	46.00	-13.30	Peak	100	93
6	277.25	44.80	-14.48	30.32	46.00	-15.68	Peak	100	71
7	297.60	38.60	-14.15	24.45	46.00	-21.55	Peak	100	71

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



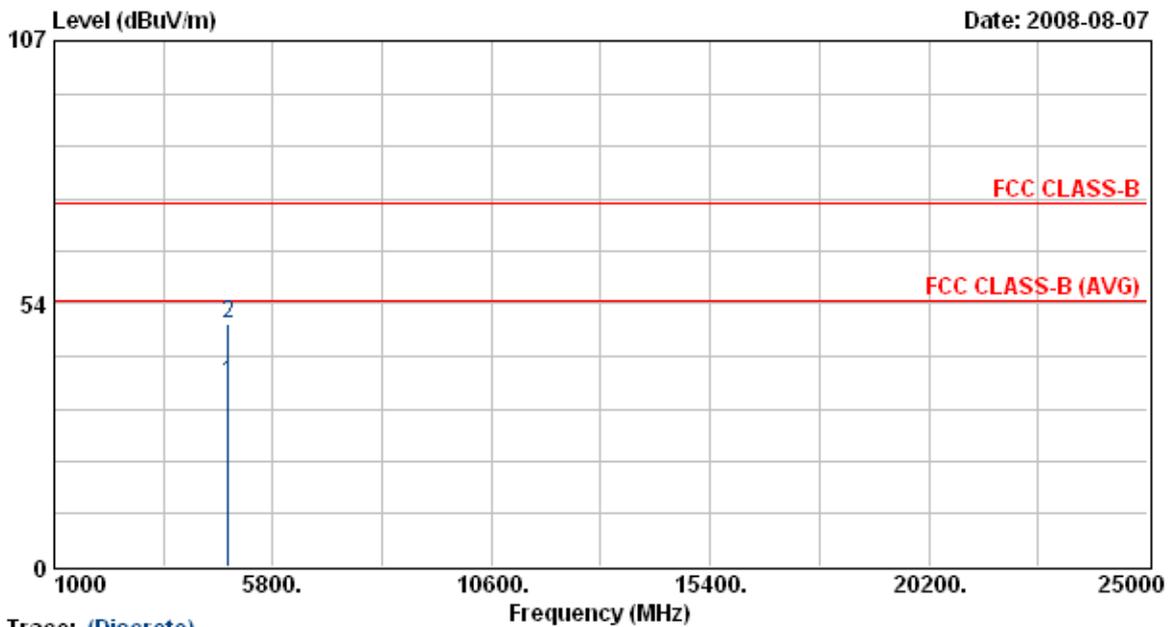
Trace: (Discrete)

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	339.90	41.87	-13.56	28.31	46.00	-17.69	Peak	100	88
2	375.25	52.87	-10.29	42.58	46.00	-3.42	QP	100	88
3	499.98	46.99	-4.21	42.78	46.00	-3.22	QP	100	88
4	626.90	41.22	-1.84	39.38	46.00	-6.62	Peak	100	144
5	750.05	42.39	0.31	42.70	46.00	-3.30	QP	100	82
6	873.30	34.00	3.99	37.99	46.00	-8.01	Peak	100	82
7	999.93	36.66	3.32	39.98	54.00	-14.02	Peak	100	90

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11b		
Rate	: 11 Mbps		
Memo	: DSA-12G-12 AUS 120120		



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	4823.93	31.75	5.67	37.42	54.00	-16.58	Average	130	271
2	4823.93	43.57	5.67	49.24	74.00	-24.76	Peak	130	271

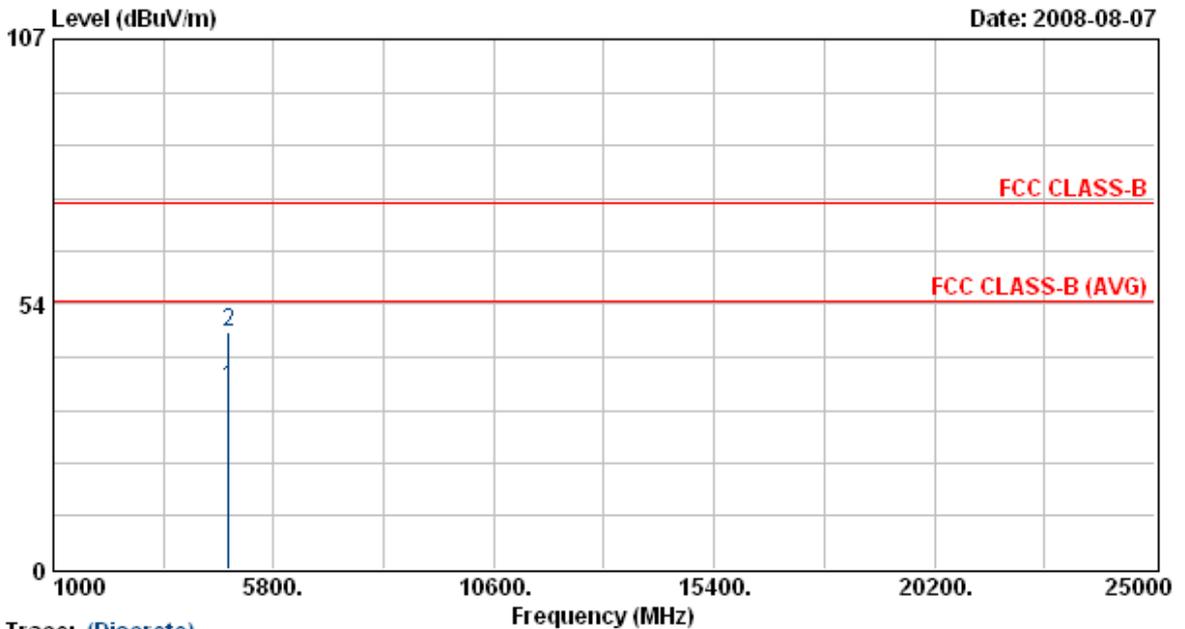
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 1
Modulation Type : 802.11b
Rate         : 11 Mbps
Memo         : DSA-12G-12 AUS 120120

Pol/Phase    : HORIZONTAL
Temperature   : 30 °C
Humidity     : 65 %
Atmospheric Pressure: 1020 hPa
    
```



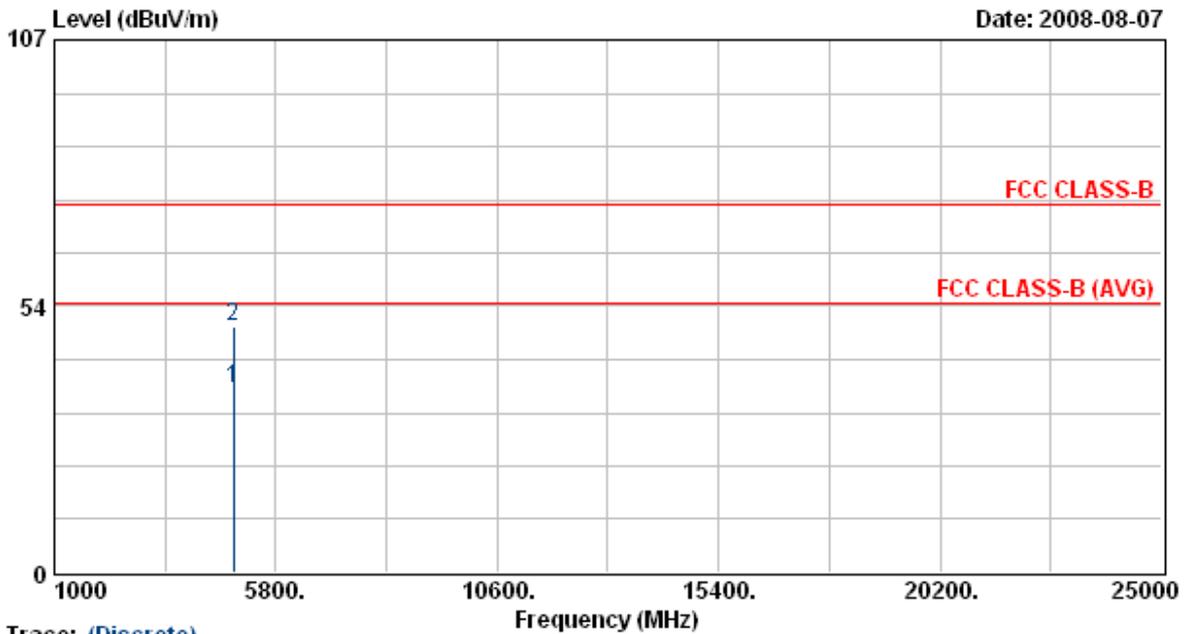
Trace: (Discrete)

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	4824.03	30.76	5.67	36.43	54.00	-17.57	Average	124	286
2	4824.03	42.06	5.67	47.73	74.00	-26.27	Peak	124	286

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa

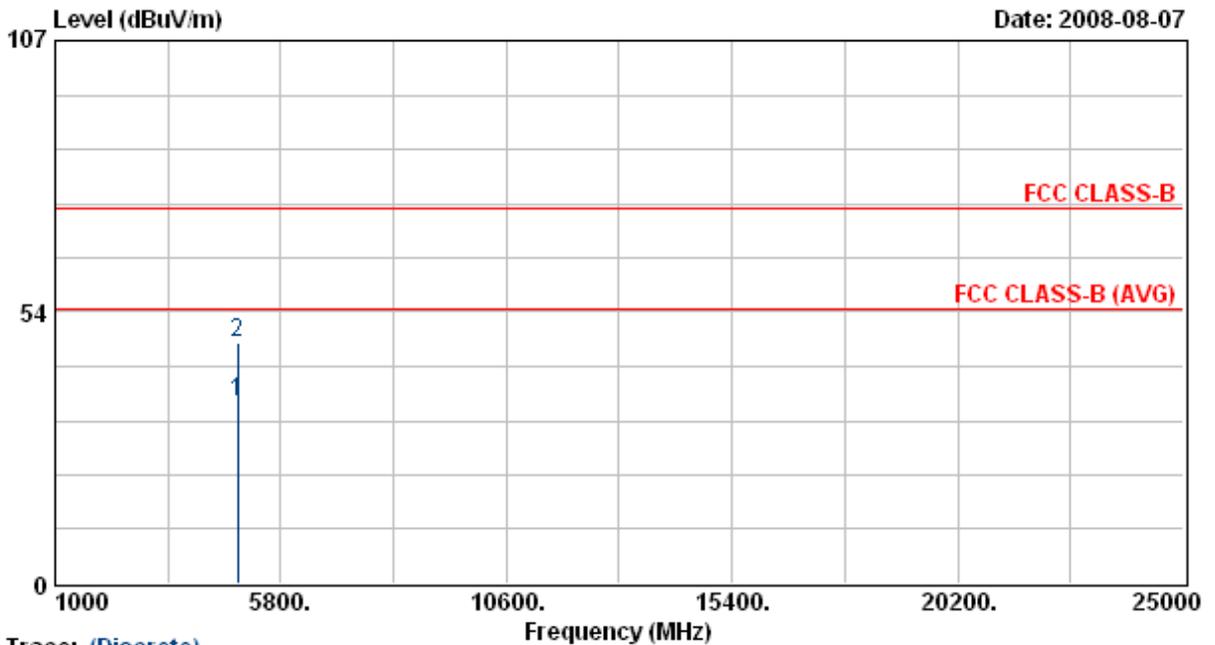


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.03	31.20	5.80	37.00	54.00	-17.00	Average	130	271
2	4874.03	43.56	5.80	49.36	74.00	-24.64	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11b		
Rate	: 11 Mbps		
Memo	: DSA-12G-12 AUS 120120		



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	29.87	5.80	35.67	54.00	-18.33	Average	124	286
2	4874.00	41.57	5.80	47.37	74.00	-26.63	Peak	124	286

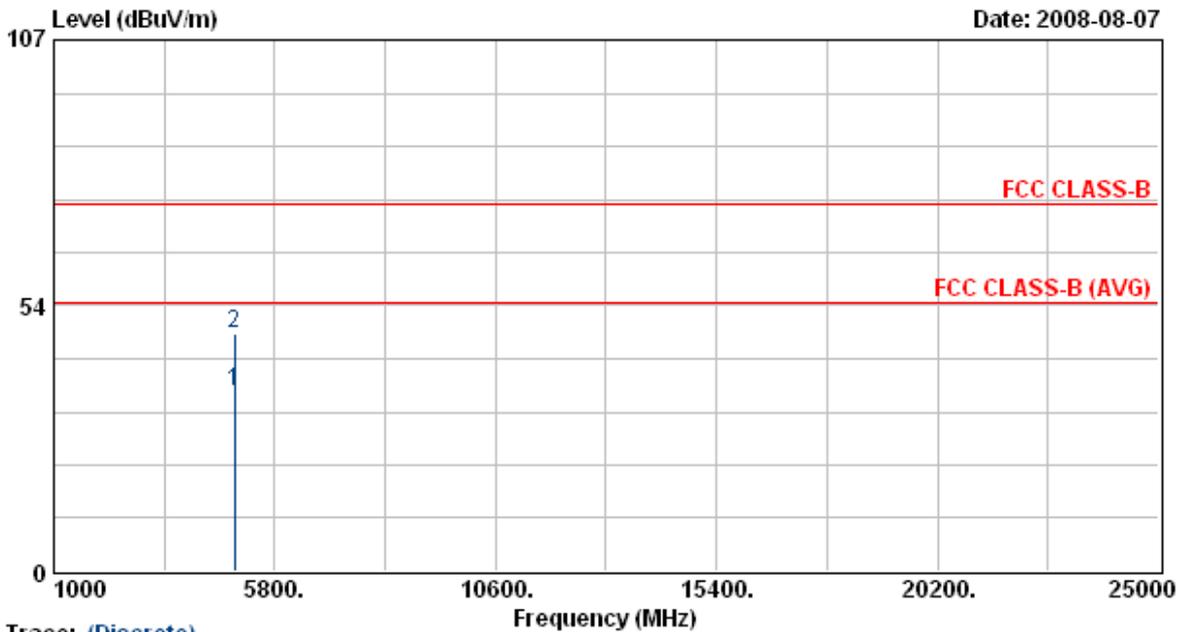
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 11
Modulation Type : 802.11b
Rate          : 11 Mbps
Memo          : DSA-12G-12 AUS 120120

Pol/Phase    : VERTICAL
Temperature   : 30 °C
Humidity      : 65 %
Atmospheric Pressure: 1020 hPa
    
```



Trace: (Discrete)

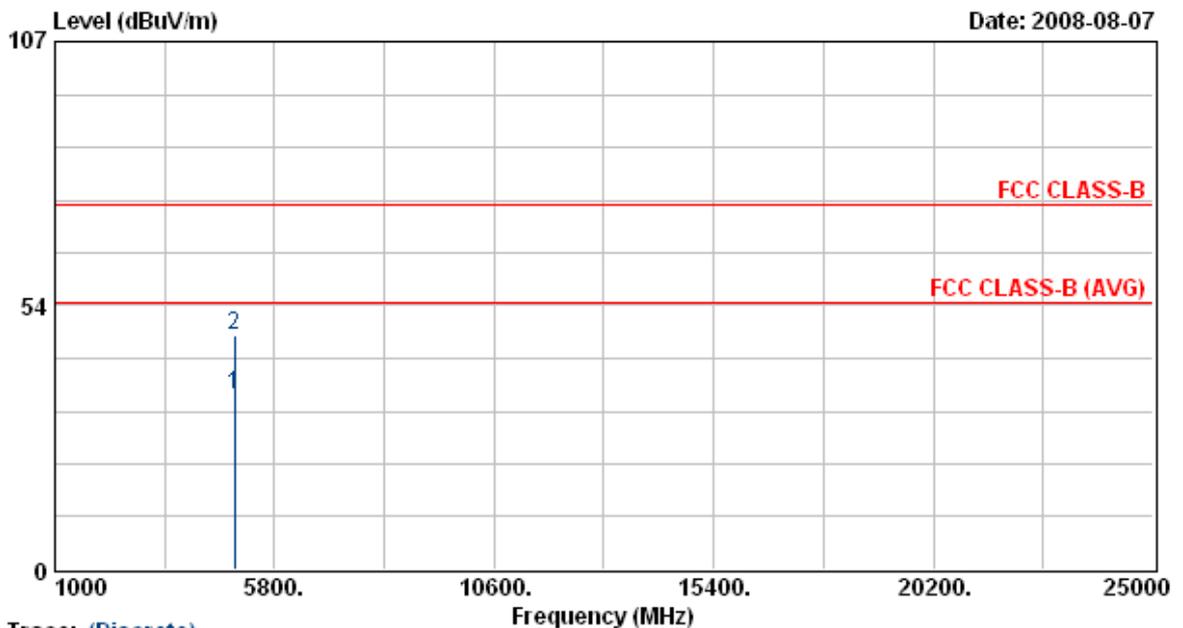
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.95	30.14	5.93	36.07	54.00	-17.93	Average	130	271
2	4923.95	41.84	5.93	47.77	74.00	-26.23	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



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	4924.03	29.50	5.93	35.43	54.00	-18.57	Average	124	286
2	4924.03	41.47	5.93	47.40	74.00	-26.60	Peak	124	286

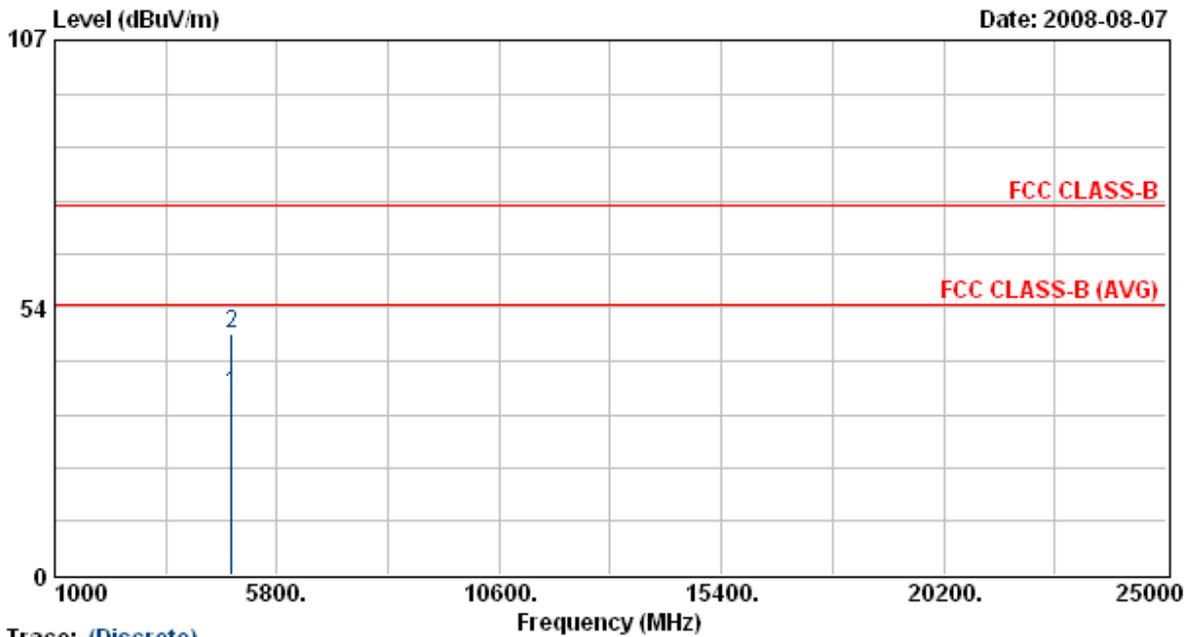
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 1
Modulation Type : 802.11g
Rate          : 6 Mbps
Memo          : DSA-12G-12 AUS 120120

Pol/Phase     : VERTICAL
Temperature   : 30 °C
Humidity      : 65 %
Atmospheric Pressure: 1020 hPa
    
```



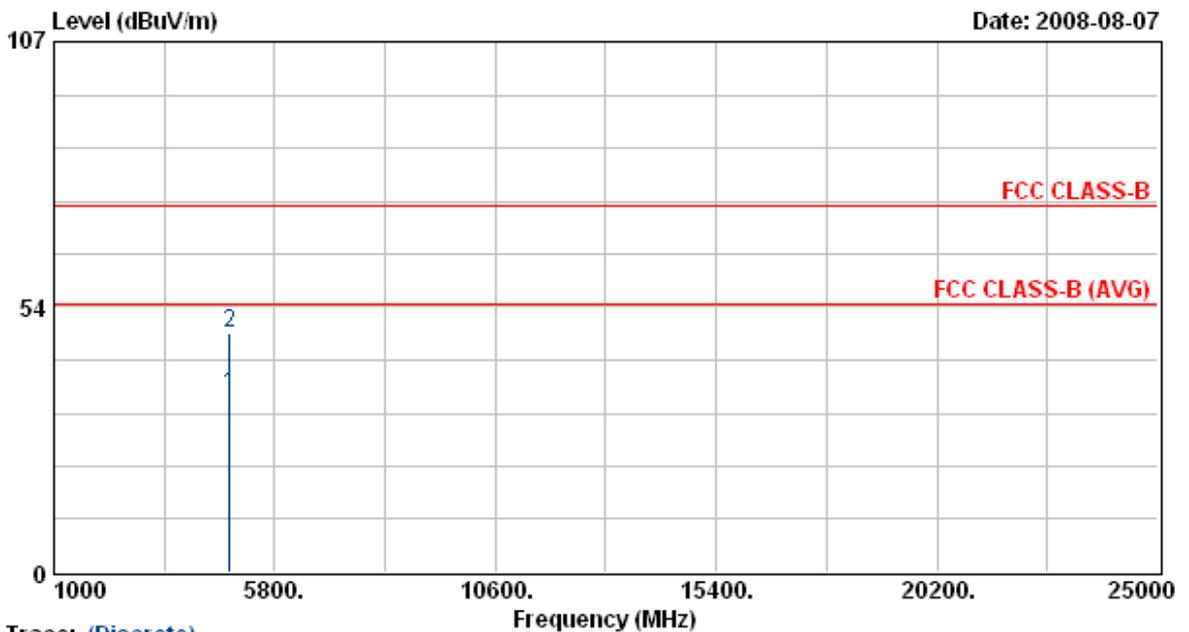
Trace: (Discrete)

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	4824.05	30.49	5.67	36.16	54.00	-17.84	Average	130	271
2	4824.05	42.60	5.67	48.27	74.00	-25.73	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

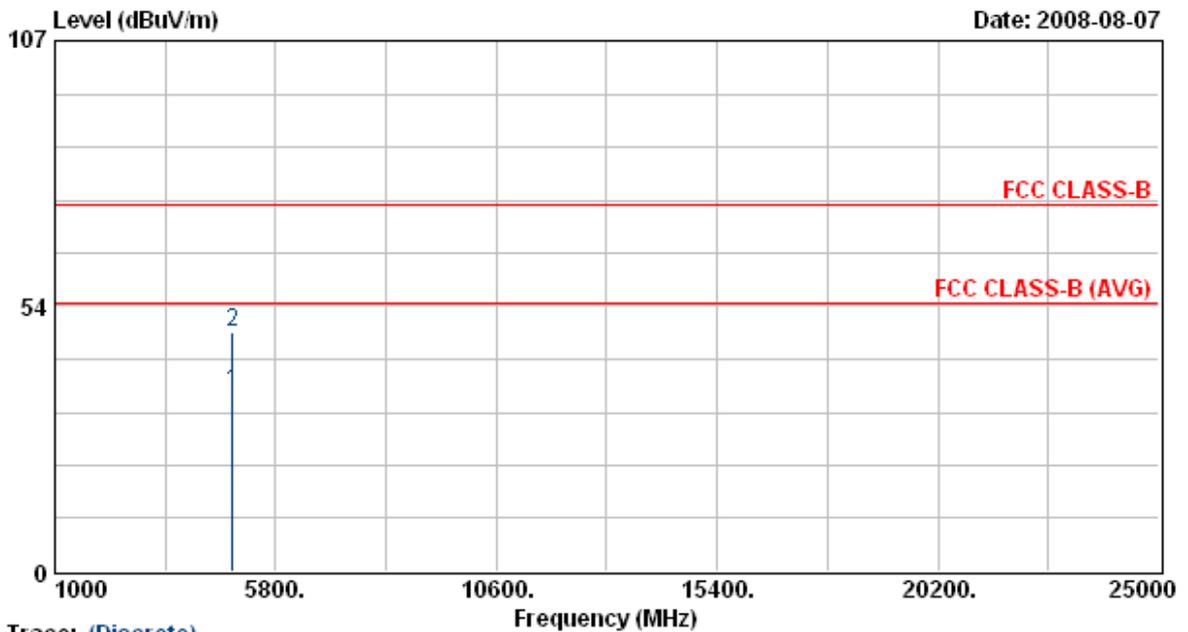
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.03	30.31	5.67	35.98	54.00	-18.02	Average	124	286
2	4824.03	42.42	5.67	48.09	74.00	-25.91	Peak	124	286

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



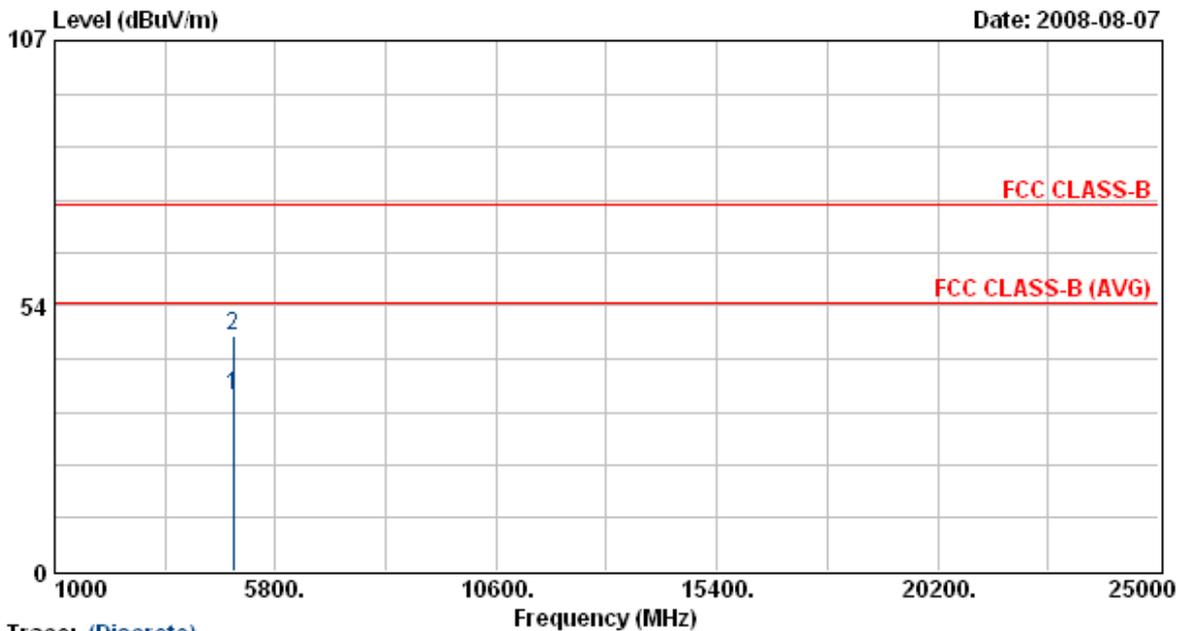
Trace: (Discrete)

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	4872.83	30.41	5.80	36.21	54.00	-17.79	Average	130	271
2	4872.83	42.37	5.80	48.17	74.00	-25.83	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



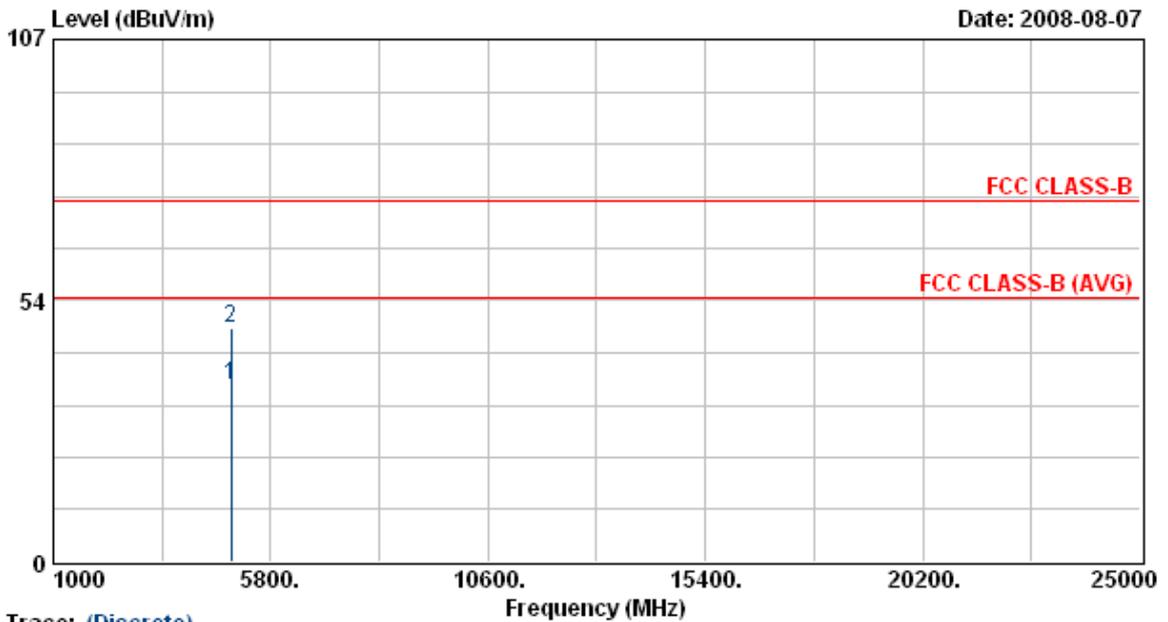
Trace: (Discrete)

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	4873.03	29.44	5.80	35.24	54.00	-18.76	Average	124	286
2	4873.03	41.64	5.80	47.44	74.00	-26.56	Peak	124	286

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11g		
Rate	: 6 Mbps		
Memo	: DSA-12G-12 AUS 120120		



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	4927.40	30.12	5.94	36.06	54.00	-17.94	Average	130	271
2	4927.40	41.77	5.94	47.71	74.00	-26.29	Peak	130	271

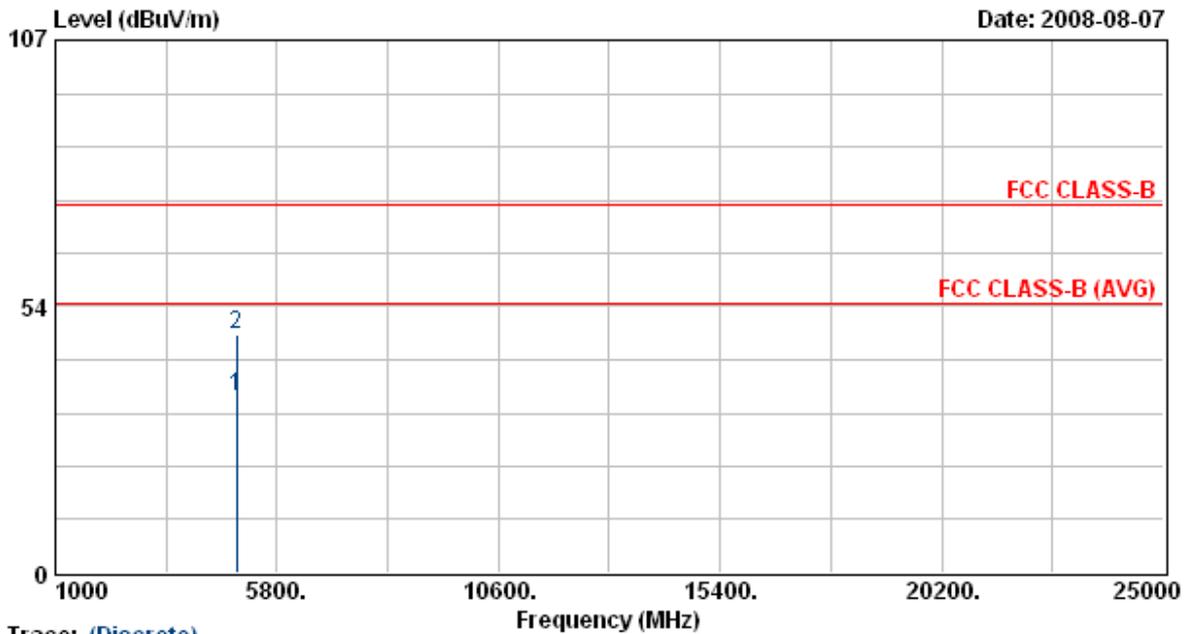
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 11
Modulation Type : 802.11g
Rate          : 6 Mbps
Memo          : DSA-12G-12 AUS 120120

Pol/Phase     : HORIZONTAL
Temperature    : 30 °C
Humidity       : 65 %
Atmospheric Pressure: 1020 hPa
    
```



Trace: (Discrete)

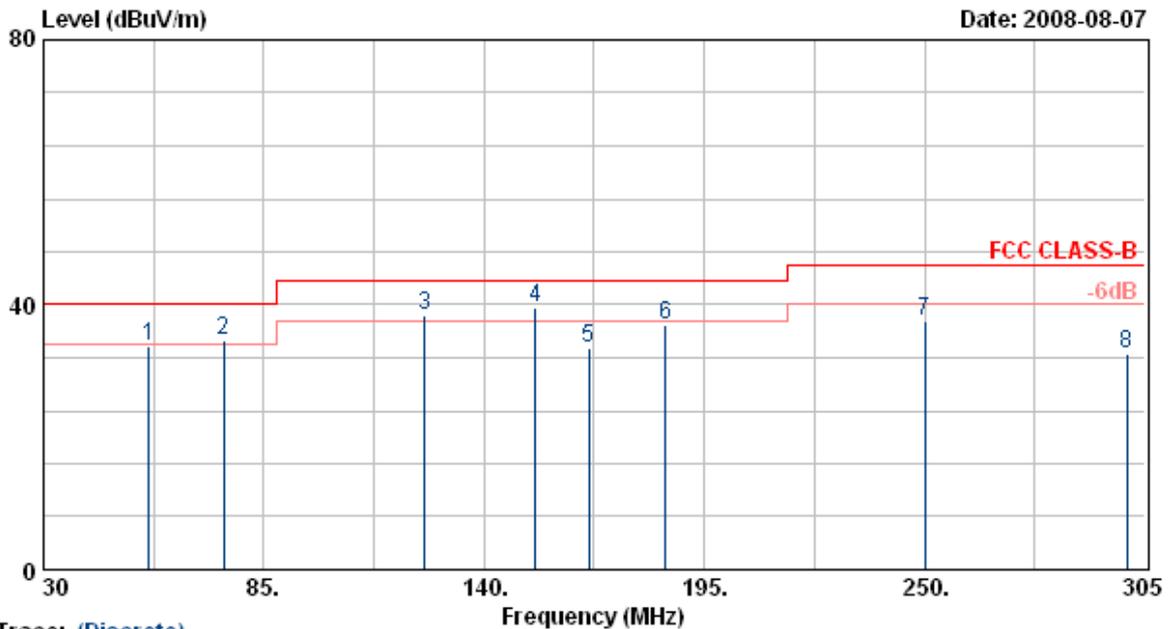
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.88	29.67	5.93	35.60	54.00	-18.40	Average	124	286
2	4923.88	41.86	5.93	47.79	74.00	-26.21	Peak	124	286

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 Mode 3

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: DSA-12G-12 AUS 120120		



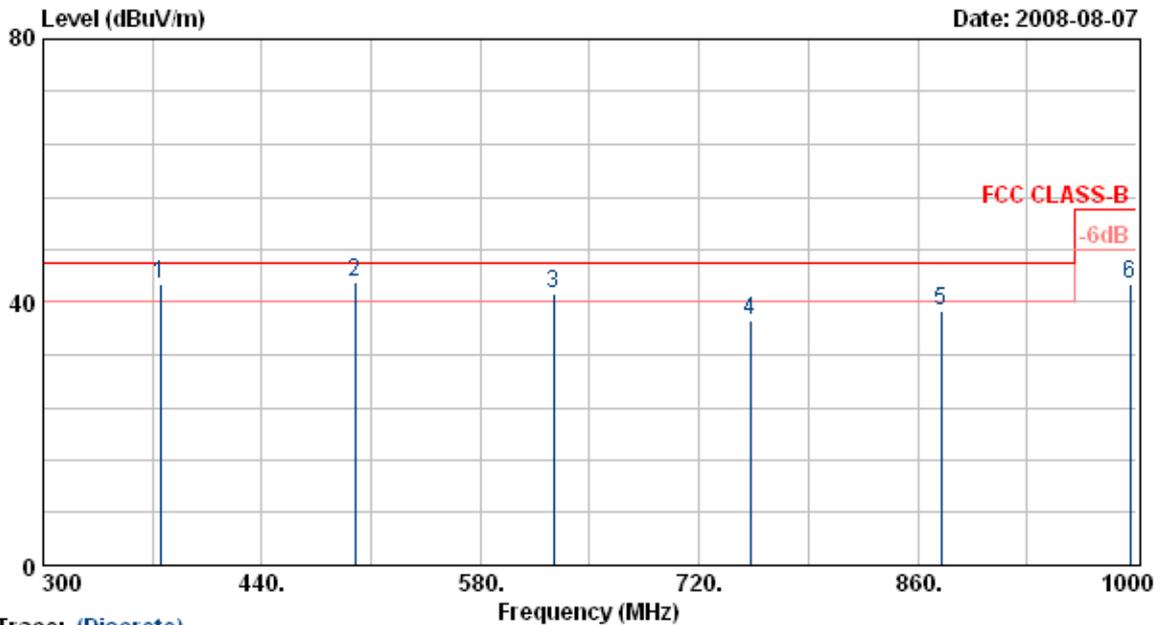
Trace: (Discrete)

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	56.40	49.76	-16.10	33.66	40.00	-6.34	Peak	100	88
2	75.10	51.96	-17.32	34.64	40.00	-5.36	QP	100	90
3	125.15	51.69	-13.34	38.35	43.50	-5.15	QP	100	90
4	152.93	51.45	-11.90	39.55	43.50	-3.95	QP	100	90
5	166.13	46.32	-12.99	33.33	43.50	-10.17	Peak	100	87
6	185.38	46.47	-9.63	36.84	43.50	-6.66	Peak	100	102
7	250.00	50.69	-13.04	37.65	46.00	-8.35	Peak	100	102
8	300.60	41.79	-9.33	32.46	46.00	-13.54	Peak	100	77

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



Trace: (Discrete)

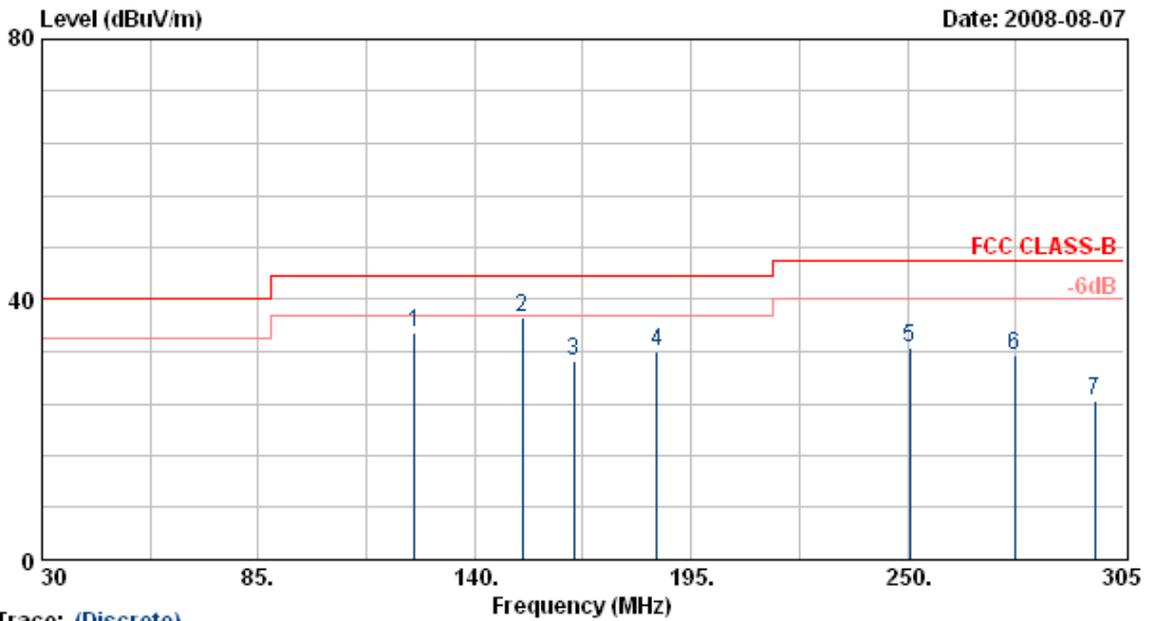
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	374.90	51.60	-8.87	42.73	46.00	-3.27	QP	100	108
2	499.90	47.79	-4.87	42.92	46.00	-3.08	QP	100	108
3	627.00	44.77	-3.57	41.20	46.00	-4.80	QP	100	100
4	752.90	36.90	0.38	37.28	46.00	-8.72	Peak	100	100
5	874.98	36.88	1.81	38.69	46.00	-7.31	Peak	100	99
6	995.80	38.00	4.78	42.78	54.00	-11.22	Peak	100	99

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. 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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



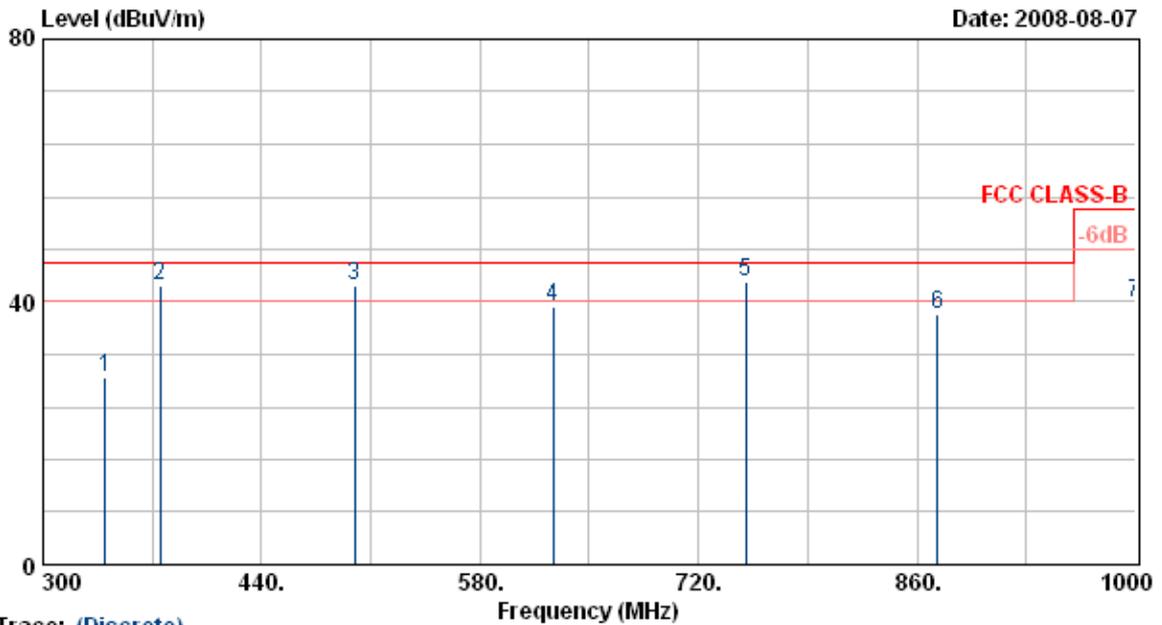
Trace: (Discrete)

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	124.60	54.38	-19.46	34.92	43.50	-8.58	Peak	100	88
2	152.10	54.75	-17.55	37.20	43.50	-6.30	Peak	100	65
3	165.30	49.38	-18.88	30.50	43.50	-13.00	Peak	100	93
4	186.20	49.66	-17.53	32.13	43.50	-11.37	Peak	100	93
5	250.55	50.20	-17.50	32.70	46.00	-13.30	Peak	100	93
6	277.25	45.80	-14.48	31.32	46.00	-14.68	Peak	100	71
7	297.60	38.60	-14.15	24.45	46.00	-21.55	Peak	100	71

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



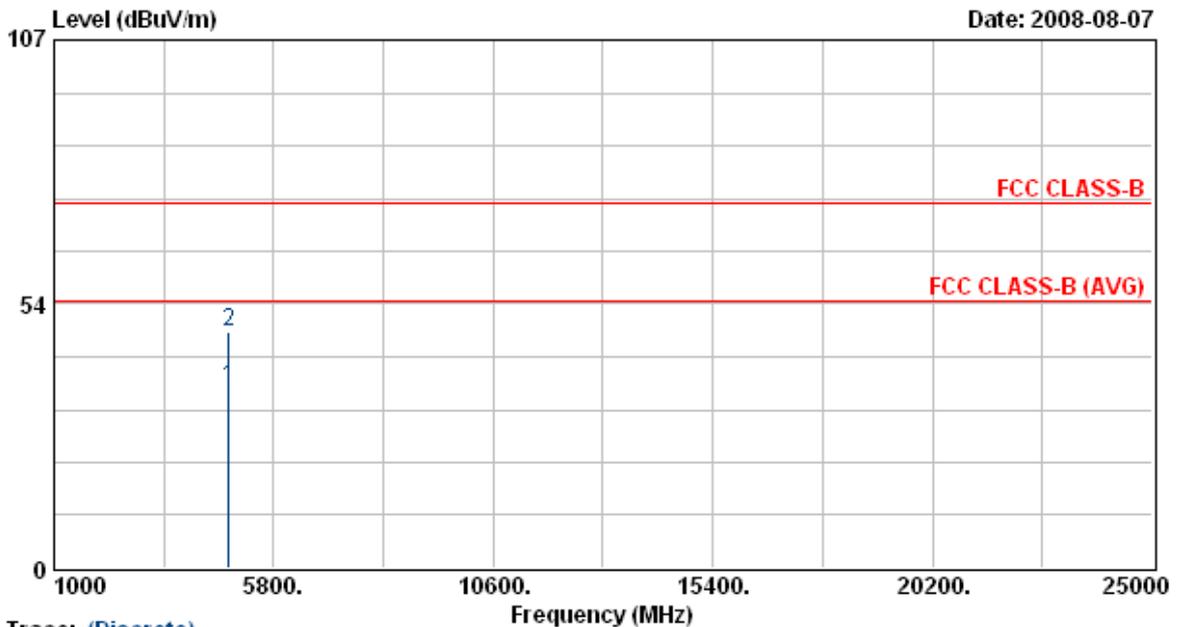
Trace: (Discrete)

Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	339.90	41.97	-13.56	28.41	46.00	-17.59	Peak	100	88
2	375.25	52.87	-10.29	42.58	46.00	-3.42	QP	100	88
3	499.98	46.76	-4.21	42.55	46.00	-3.45	QP	100	88
4	626.90	41.22	-1.84	39.38	46.00	-6.62	Peak	100	144
5	750.05	42.69	0.31	43.00	46.00	-3.00	QP	100	82
6	873.30	34.00	3.99	37.99	46.00	-8.01	Peak	100	82
7	999.93	36.66	3.32	39.98	54.00	-14.02	Peak	100	90

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: DSA-12G-12 AUS 120120		



Trace: (Discrete)

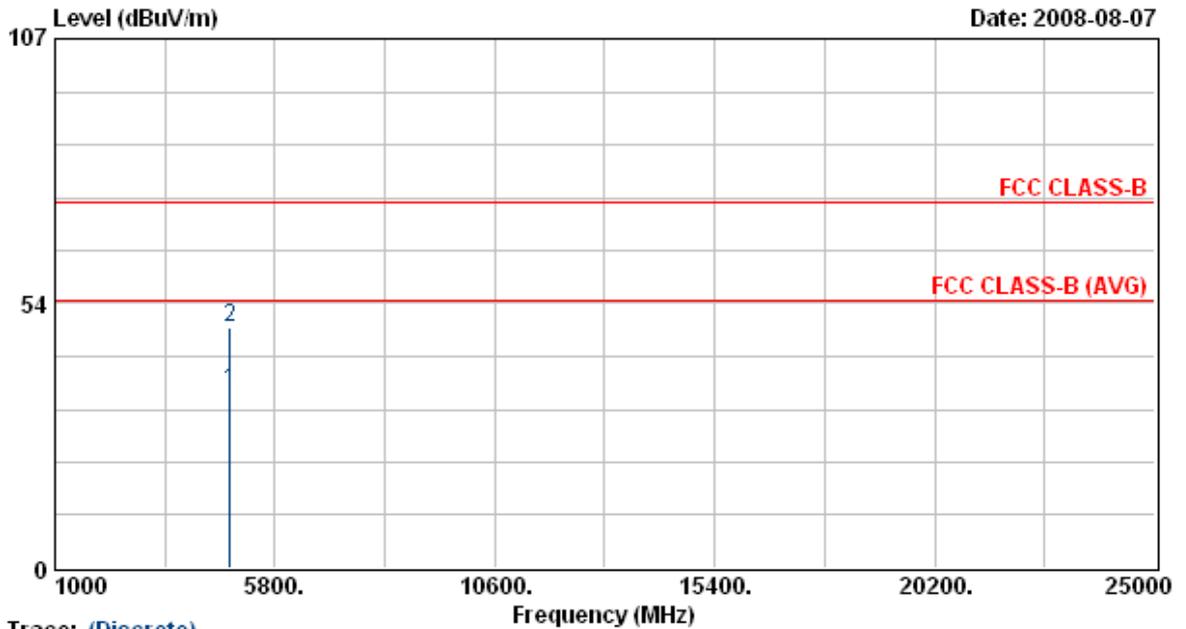
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.83	30.72	5.67	36.39	54.00	-17.61	Average	130	271
2	4824.83	42.27	5.67	47.94	74.00	-26.06	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



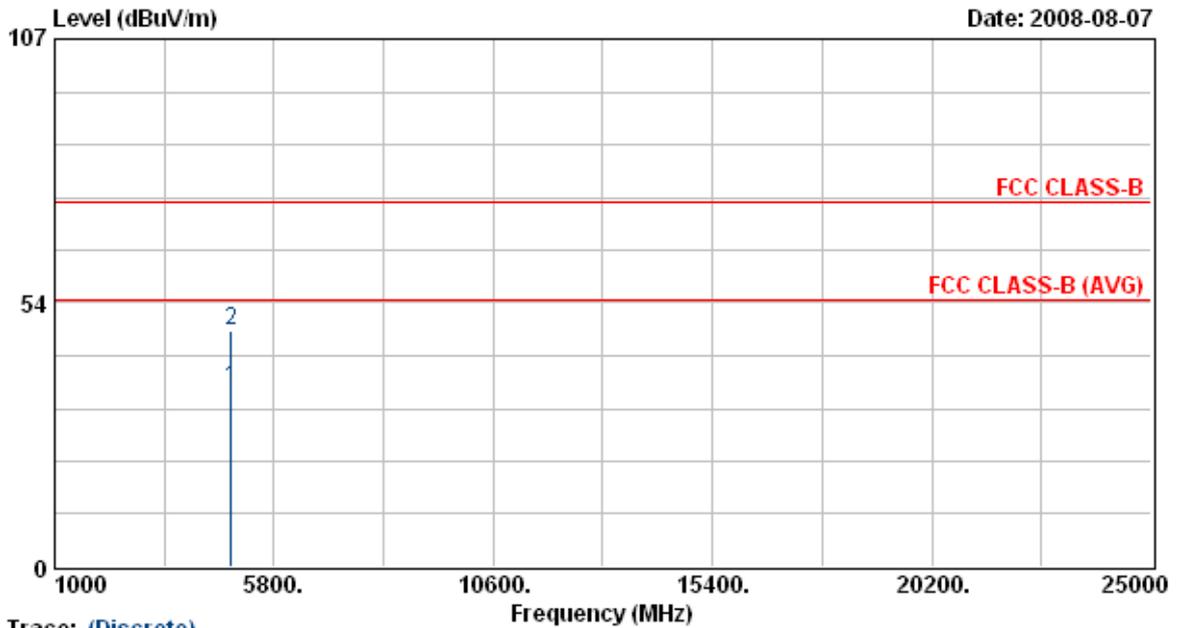
Trace: (Discrete)

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	4824.03	30.30	5.67	35.97	54.00	-18.03	Average	124	286
2	4824.03	42.97	5.67	48.64	74.00	-25.36	Peak	124	286

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: DSA-12G-12 AUS 120120		



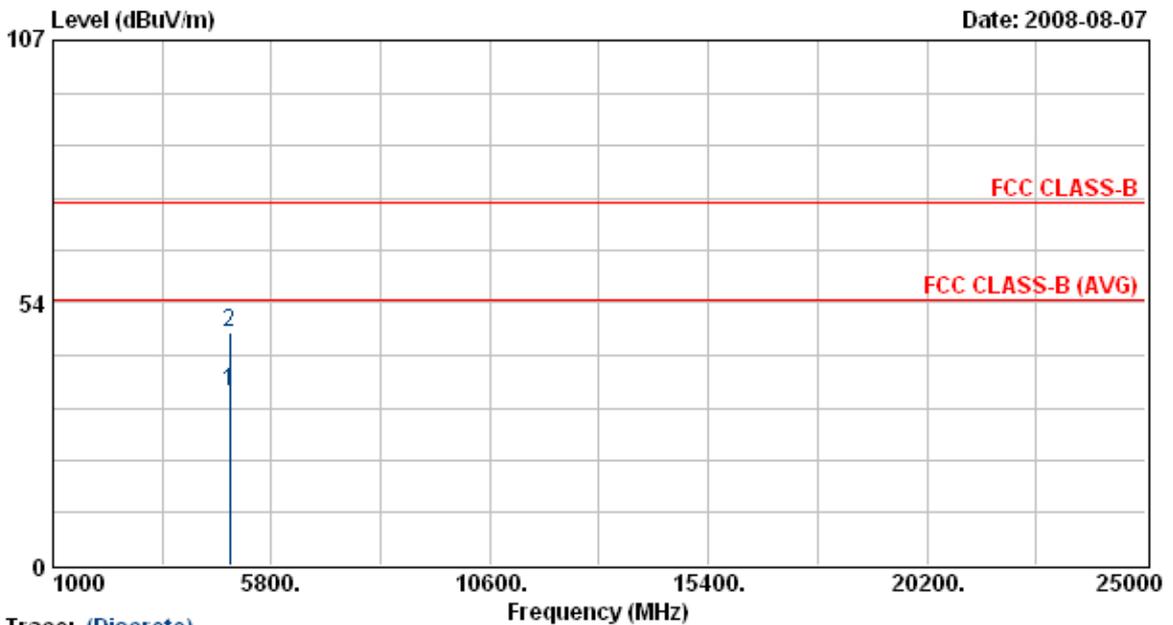
Trace: (Discrete)

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	4871.00	30.42	5.79	36.21	54.00	-17.79	Average	130	271
2	4871.00	42.17	5.79	47.96	74.00	-26.04	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: DSA-12G-12 AUS 120120		



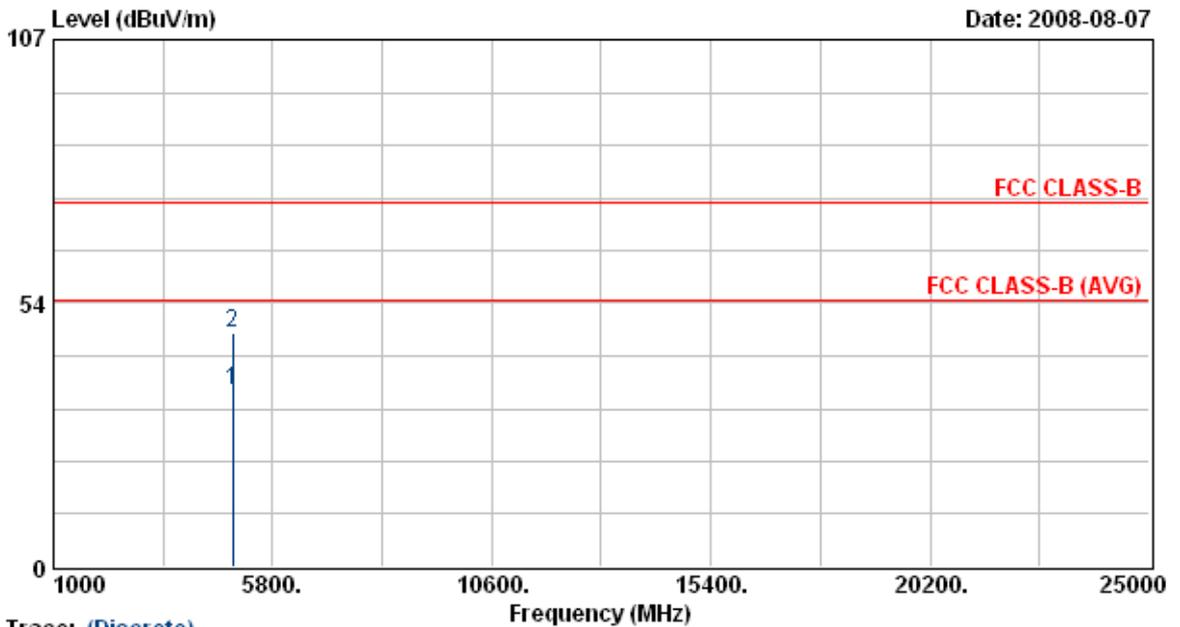
Trace: (Discrete)

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	4873.98	29.76	5.80	35.56	54.00	-18.44	Average	124	286
2	4873.98	41.55	5.80	47.35	74.00	-26.65	Peak	124	286

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: DSA-12G-12 AUS 120120		



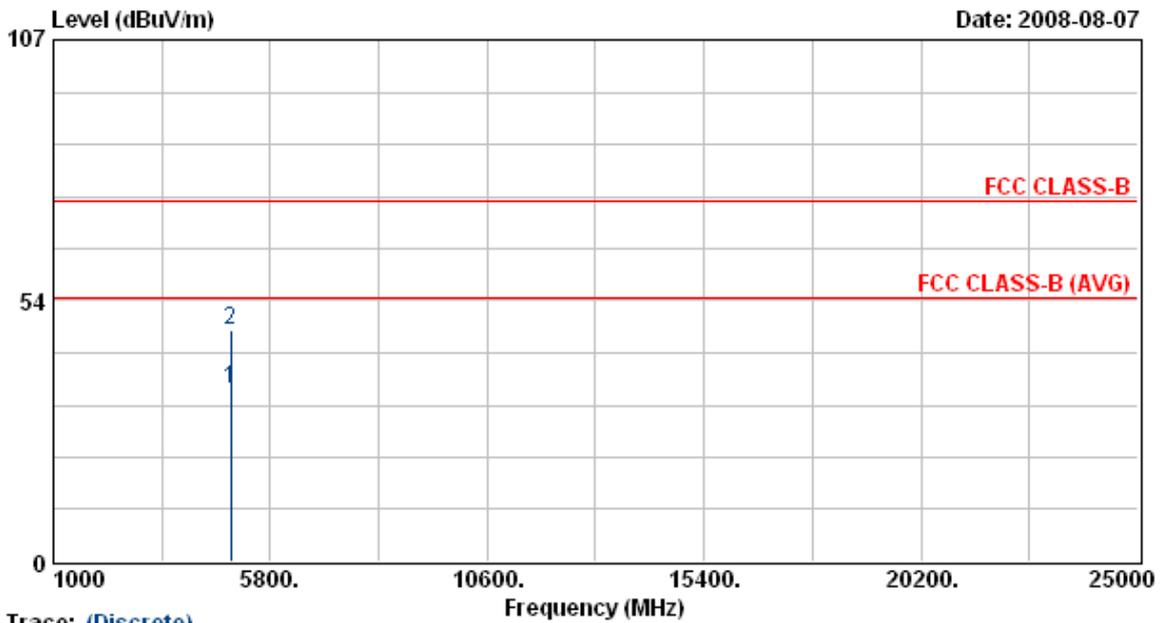
Trace: (Discrete)

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	4919.95	29.97	5.92	35.89	54.00	-18.11	Average	130	271
2	4919.95	41.56	5.92	47.48	74.00	-26.52	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

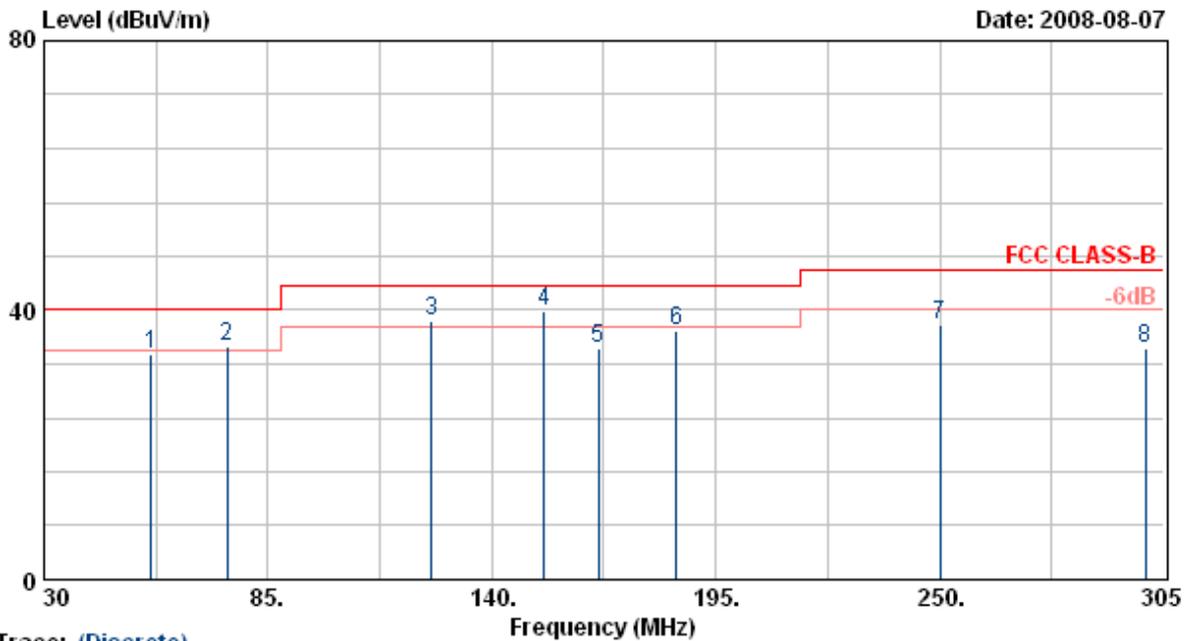
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.33	29.66	5.93	35.59	54.00	-18.41	Average	124	286
2	4924.33	41.46	5.93	47.39	74.00	-26.61	Peak	124	286

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 Mode 4

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 3	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT40		
Rate	: 13.5 Mbps		
Memo	: DSA-12G-12 AUS 120120		



Trace: (Discrete)

Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	56.40	49.52	-16.10	33.42	40.00	-6.58	Peak	100	88
2	75.10	51.96	-17.32	34.64	40.00	-5.36	QP	100	90
3	125.15	51.60	-13.34	38.26	43.50	-5.24	QP	100	90
4	152.93	51.62	-11.90	39.72	43.50	-3.78	QP	100	90
5	166.13	47.32	-12.99	34.33	43.50	-9.17	Peak	100	87
6	185.38	46.50	-9.63	36.87	43.50	-6.63	Peak	100	102
7	250.00	50.77	-13.04	37.73	46.00	-8.27	Peak	100	102
8	300.60	43.79	-9.33	34.46	46.00	-11.54	Peak	100	77

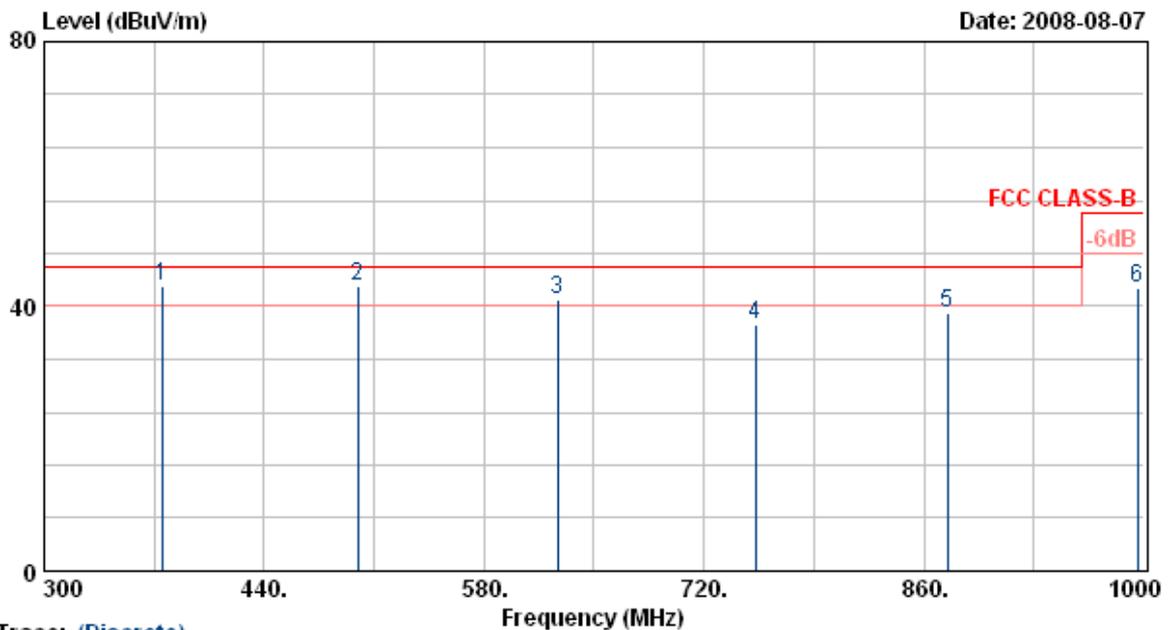
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 3
Modulation Type : 802.11n HT40
Rate         : 13.5 Mbps
Memo         : DSA-12G-12 AUS 120120

Pol/Phase     : VERTICAL
Temperature   : 30 °C
Humidity      : 65 %
Atmospheric Pressure: 1020 hPa
    
```



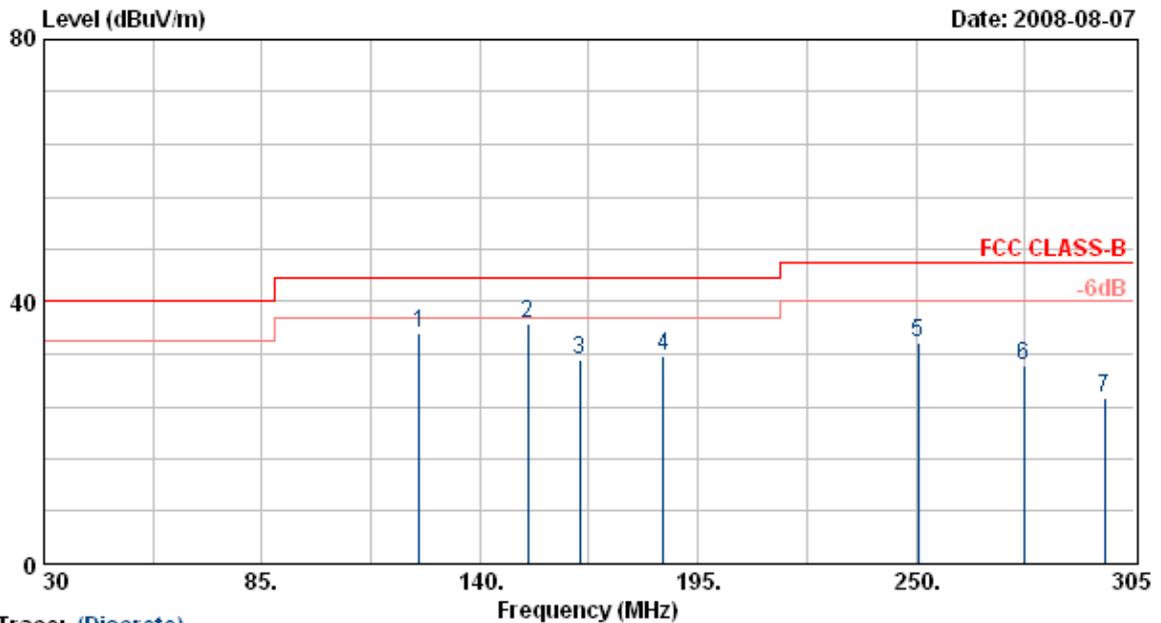
Trace: (Discrete)

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	374.90	51.86	-8.87	42.98	46.00	-3.02	QP	100	108
2	499.90	47.79	-4.87	42.92	46.00	-3.08	QP	100	108
3	627.00	44.56	-3.57	40.99	46.00	-5.01	QP	100	100
4	752.90	36.90	0.38	37.28	46.00	-8.72	Peak	100	100
5	874.98	37.22	1.81	39.03	46.00	-6.97	Peak	100	99
6	995.80	38.00	4.78	42.78	54.00	-11.22	Peak	100	99

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. 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.

EUT : 08071802
 Power : AC 120V Pol/Phase : HORIZONTAL
 Test Mode : Transmit/Receive Temperature : 30 °C
 Operation Channel: 3 Humidity : 65 %
 Modulation Type : 802.11n HT40 Atmospheric Pressure: 1020 hPa
 Rate : 13.5 Mbps
 Memo : DSA-12G-12 AUS 120120



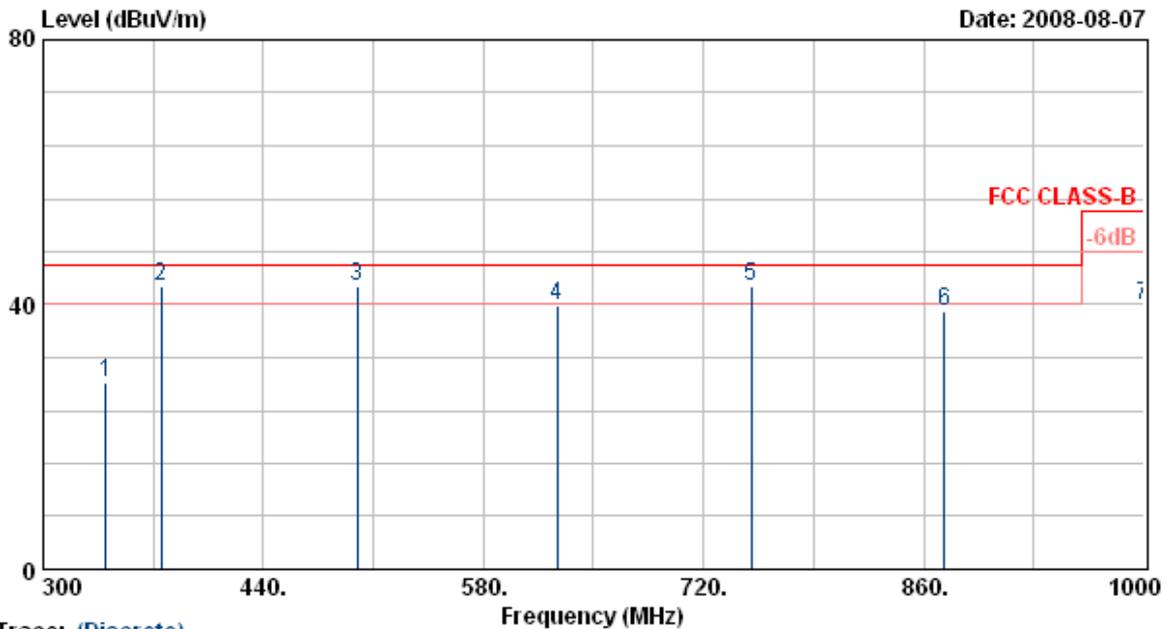
Trace: (Discrete)

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	124.60	54.78	-19.46	35.32	43.50	-8.18	Peak	100	88
2	152.10	54.11	-17.55	36.56	43.50	-6.94	Peak	100	65
3	165.30	49.96	-18.88	31.08	43.50	-12.42	Peak	100	93
4	186.20	49.29	-17.53	31.76	43.50	-11.74	Peak	100	93
5	250.55	51.20	-17.50	33.70	46.00	-12.30	Peak	100	93
6	277.25	44.80	-14.48	30.32	46.00	-15.68	Peak	100	71
7	297.60	39.60	-14.15	25.45	46.00	-20.55	Peak	100	71

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 3
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : DSA-12G-12 AUS 120120
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



Trace: (Discrete)

Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	339.90	41.87	-13.56	28.31	46.00	-17.69	Peak	100	88
2	375.25	52.96	-10.29	42.67	46.00	-3.33	QP	100	88
3	499.98	46.99	-4.21	42.78	46.00	-3.22	QP	100	88
4	626.90	41.66	-1.84	39.82	46.00	-6.18	Peak	100	144
5	750.05	42.39	0.31	42.70	46.00	-3.30	QP	100	82
6	873.30	35.00	3.99	38.99	46.00	-7.01	Peak	100	82
7	999.93	36.66	3.32	39.98	54.00	-14.02	Peak	100	90

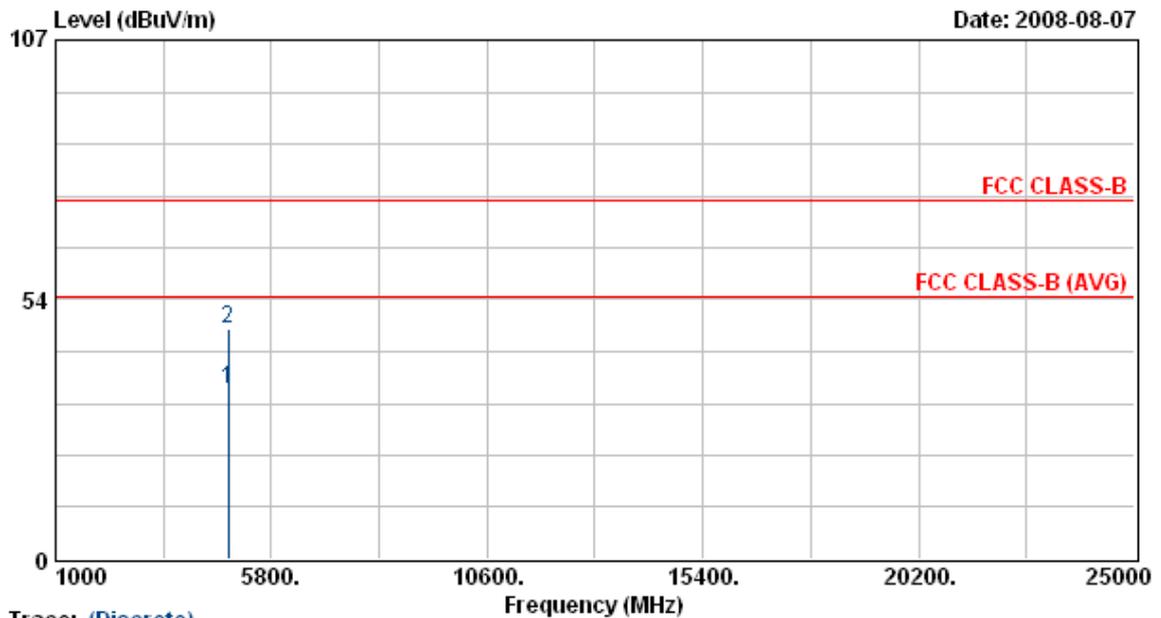
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 3
Modulation Type : 802.11n HT40
Rate         : 13.5 Mbps
Memo         : DSA-12G-12 AUS 120120

Pol/Phase    : VERTICAL
Temperature   : 30 °C
Humidity     : 65 %
Atmospheric Pressure: 1020 hPa
    
```



Trace: (Discrete)

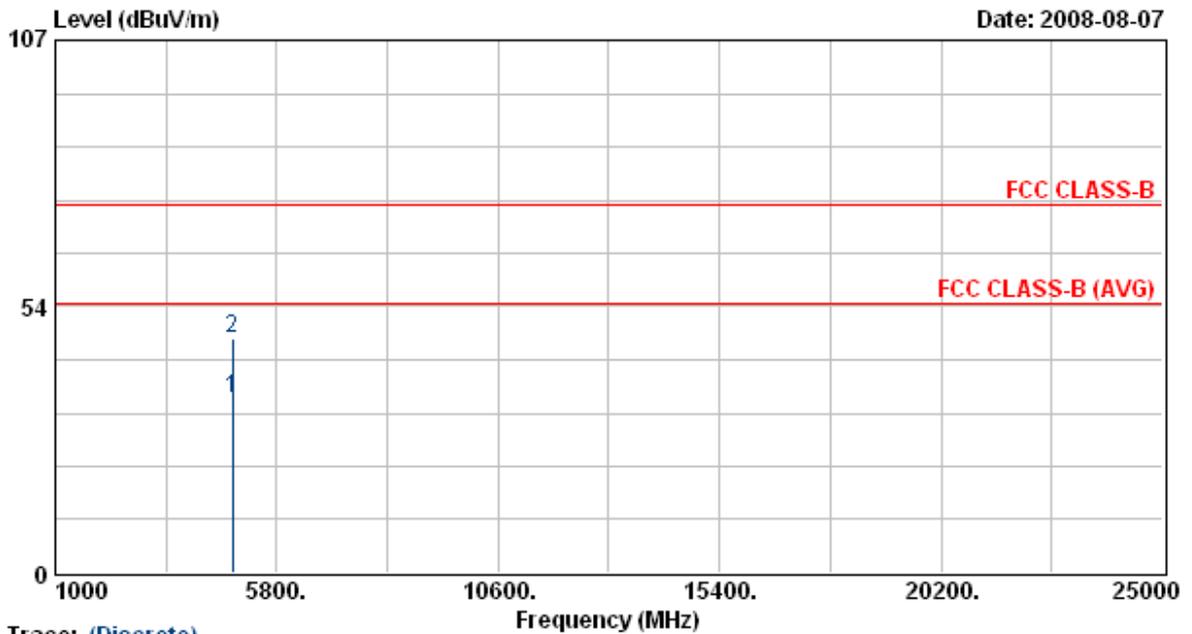
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4843.98	29.39	5.72	35.11	54.00	-18.89	Average	130	271
2	4843.98	41.59	5.72	47.31	74.00	-26.69	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 3
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

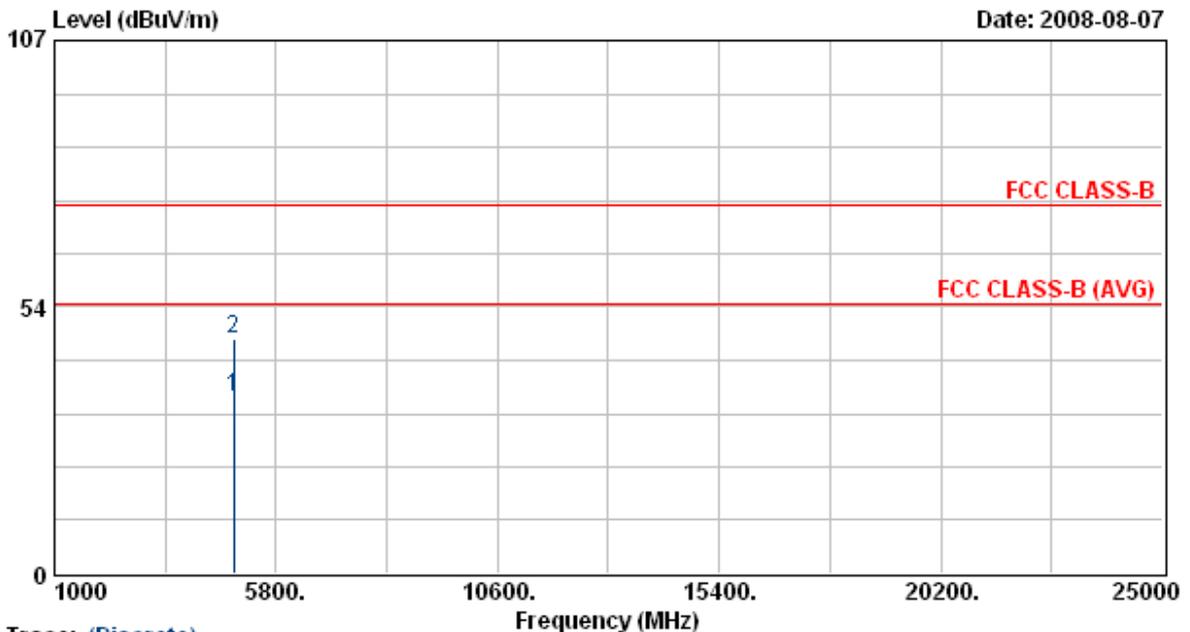
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4842.68	29.25	5.72	34.97	54.00	-19.03	Average	124	286
2	4842.68	41.27	5.72	46.99	74.00	-27.01	Peak	124	286

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



Trace: (Discrete)

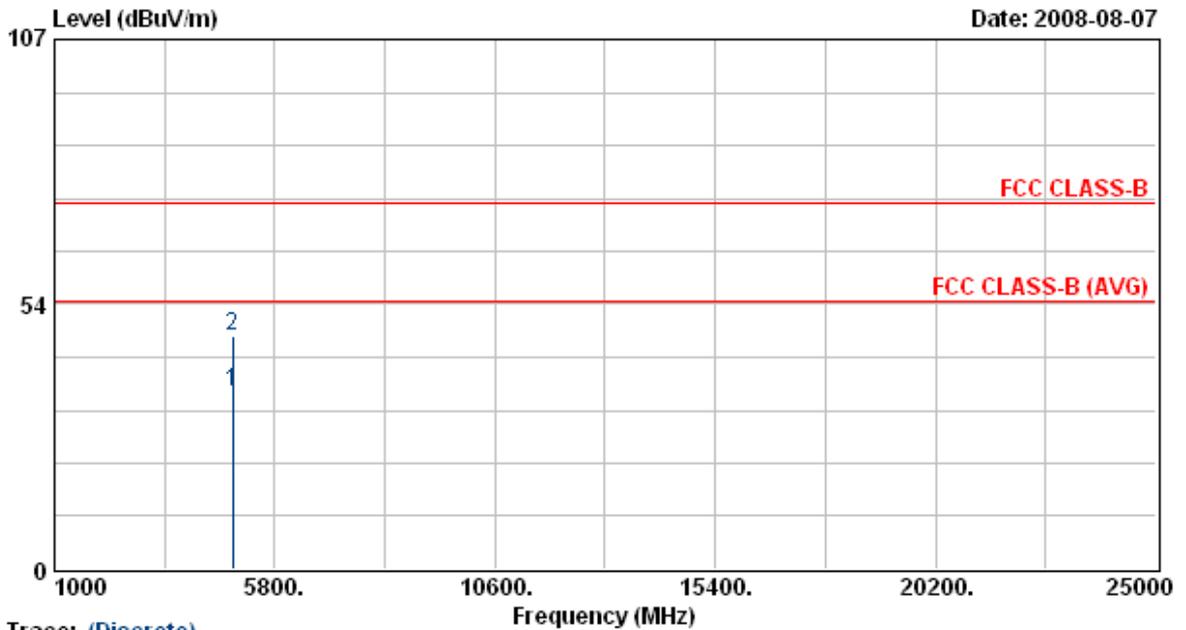
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.08	29.79	5.80	35.59	54.00	-18.41	Average	130	271
2	4874.08	41.29	5.80	47.09	74.00	-26.91	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

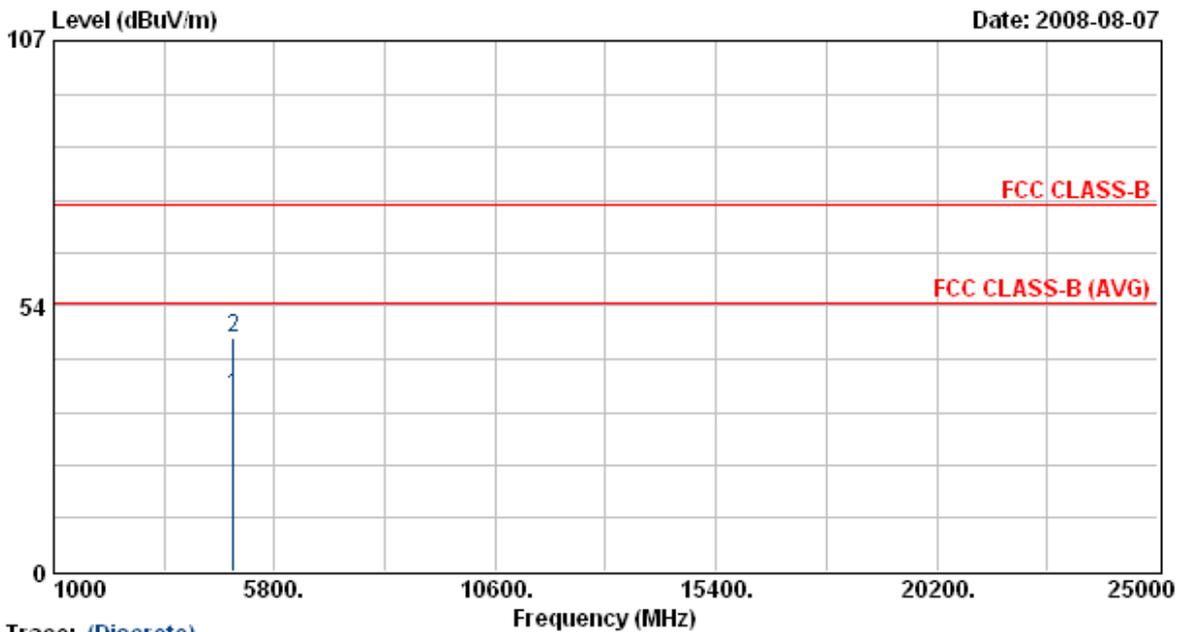
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.98	29.82	5.80	35.62	54.00	-18.38	Average	124	286
2	4873.98	41.19	5.80	46.99	74.00	-27.01	Peak	124	286

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 9
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



Trace: (Discrete)

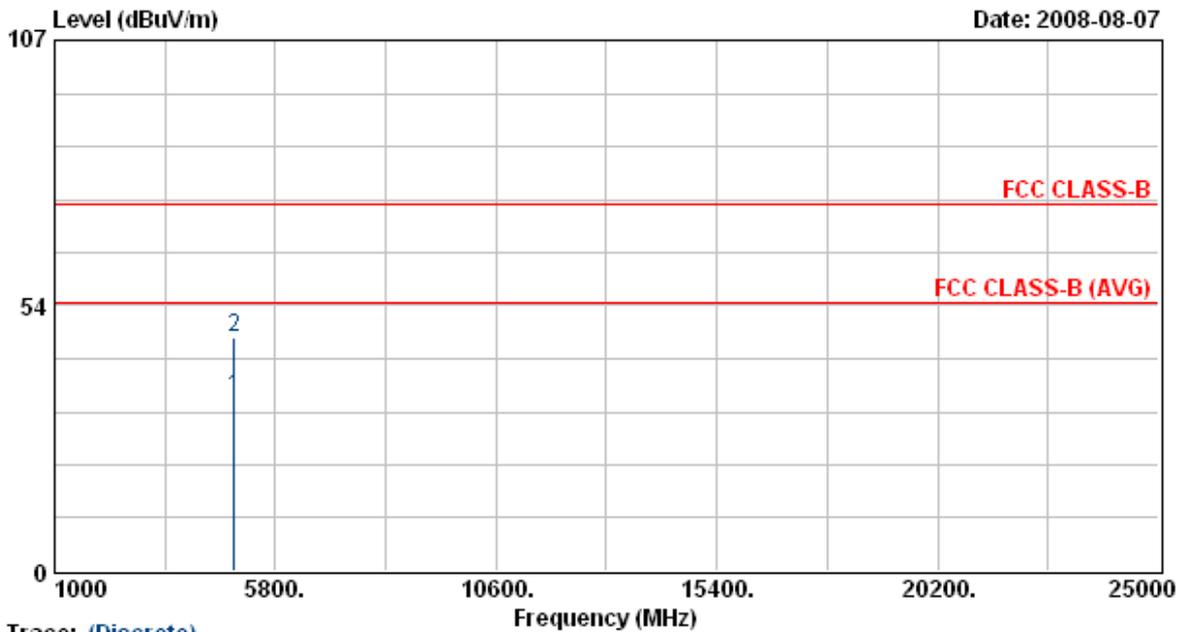
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4904.03	29.41	5.88	35.29	54.00	-18.71	Average	130	271
2	4904.03	41.27	5.88	47.15	74.00	-26.85	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 9
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : DSA-12G-12 AUS 120120

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



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	4904.03	29.32	5.88	35.20	54.00	-18.80	Average	124	286
2	4904.03	41.26	5.88	47.14	74.00	-26.86	Peak	124	286

Notes:

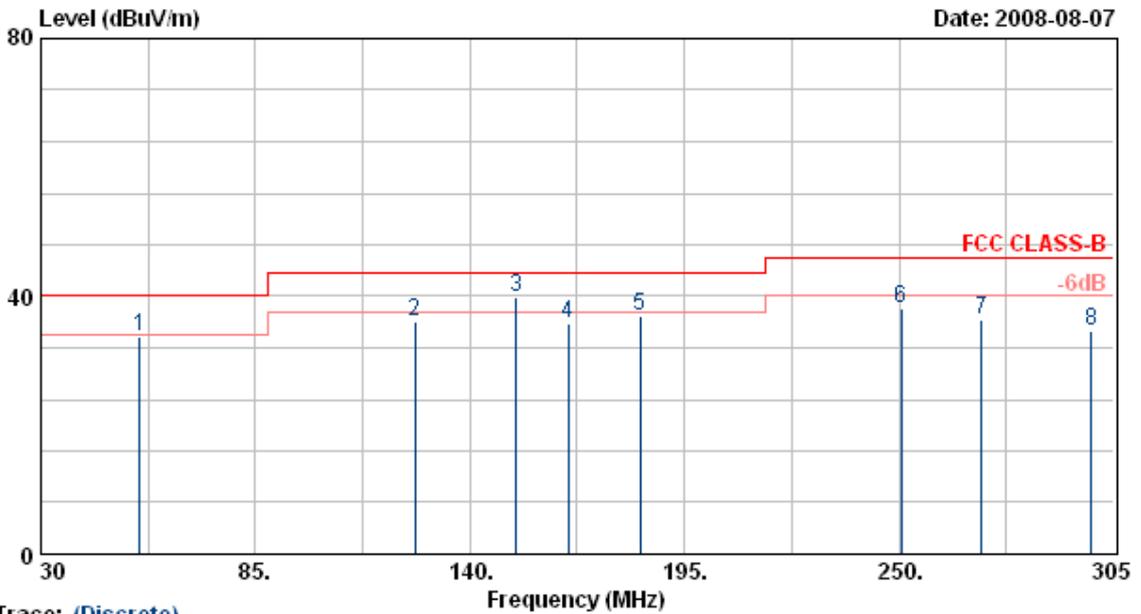
1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum 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 Mode 5

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 1
Modulation Type : 802.11g
Rate          : 6 Mbps
Memo         : MT12-Y120100-A1

Pol/Phase    : VERTICAL
Temperature   : 30 °C
Humidity     : 65 %
Atmospheric Pressure: 1020 hPa
    
```



Trace: (Discrete)

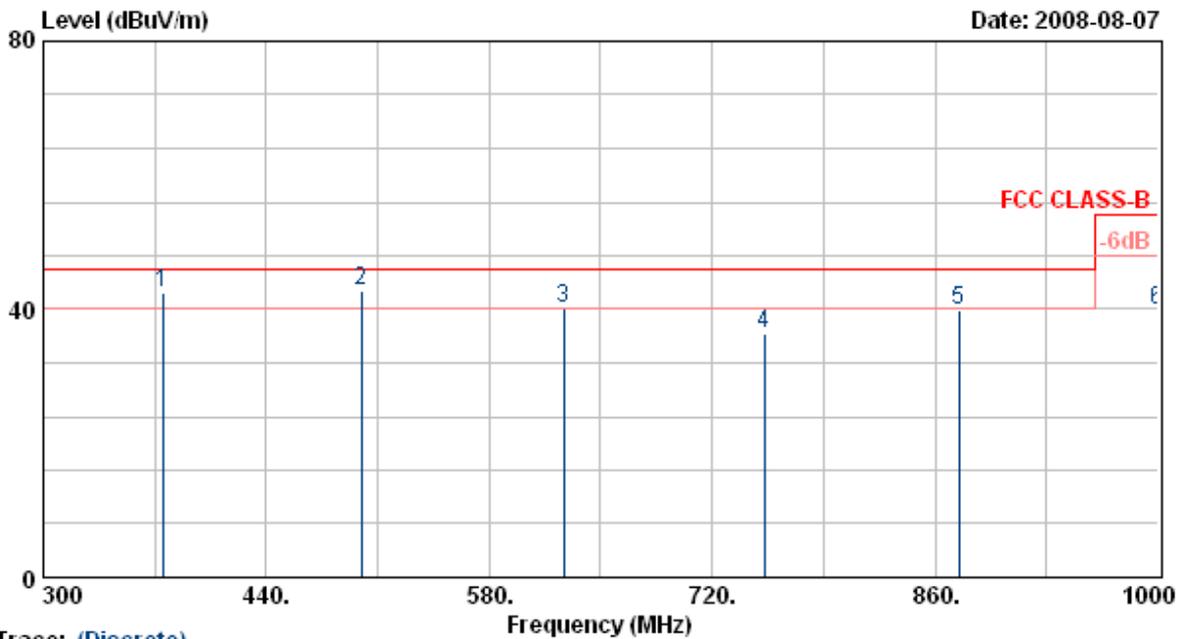
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	55.30	49.71	-15.95	33.76	40.00	-6.24	Peak	100	100
2	125.98	49.64	-13.65	35.99	43.50	-7.51	Peak	100	92
3	151.80	52.00	-12.14	39.86	43.50	-3.64	QP	100	92
4	165.30	48.97	-13.12	35.85	43.50	-7.65	Peak	100	120
5	183.73	46.56	-9.47	37.09	43.50	-6.41	Peak	100	120
6	250.55	50.77	-12.68	38.09	46.00	-7.91	Peak	100	87
7	271.18	44.83	-8.39	36.44	46.00	-9.56	Peak	100	96
8	299.23	43.82	-9.25	34.57	46.00	-11.43	Peak	100	96

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

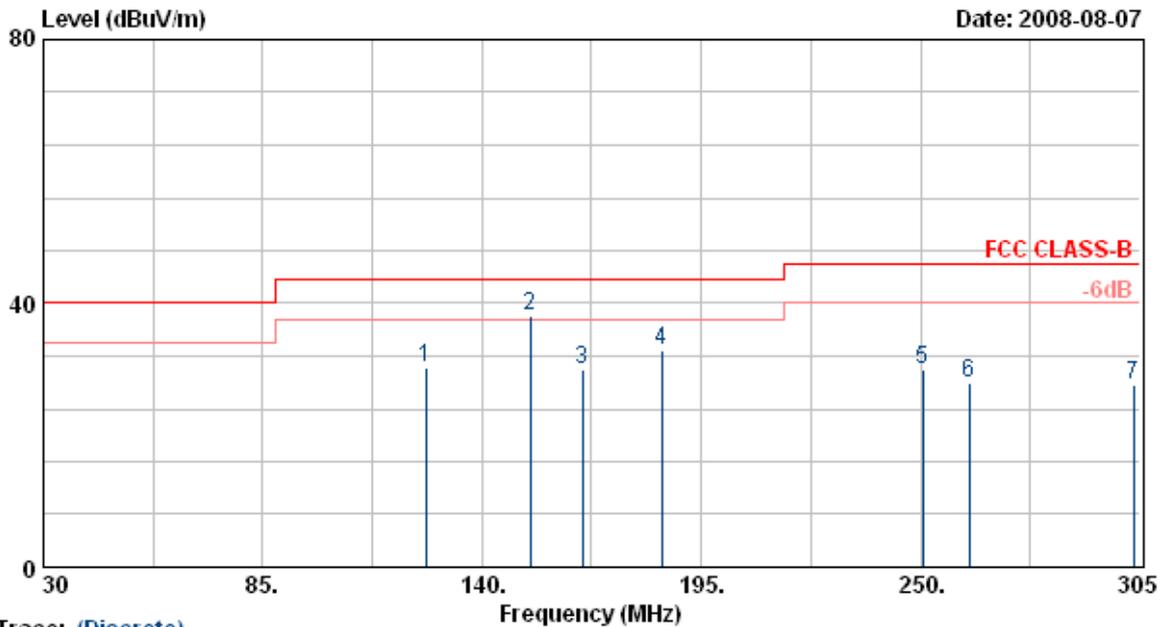
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	374.90	51.39	-8.87	42.52	46.00	-3.48	QP	100	77
2	499.98	47.76	-4.86	42.90	46.00	-3.10	QP	100	77
3	626.90	43.82	-3.58	40.24	46.00	-5.76	QP	100	97
4	752.90	35.84	0.38	36.22	46.00	-9.78	Peak	100	107
5	875.05	38.00	1.80	39.80	46.00	-6.20	Peak	100	107
6	999.99	38.54	1.42	39.96	54.00	-14.04	Peak	100	107

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



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	125.98	49.79	-19.62	30.17	43.50	-13.33	Peak	100	50
2	152.10	55.69	-17.55	38.14	43.50	-5.36	QP	100	76
3	165.30	48.88	-18.88	30.00	43.50	-13.50	Peak	100	99
4	185.10	50.63	-17.81	32.82	43.50	-10.68	Peak	100	112
5	250.55	47.55	-17.50	30.05	46.00	-15.95	Peak	100	112
6	262.10	43.18	-15.20	27.98	46.00	-18.02	Peak	100	124
7	303.35	41.79	-14.09	27.70	46.00	-18.30	Peak	100	124

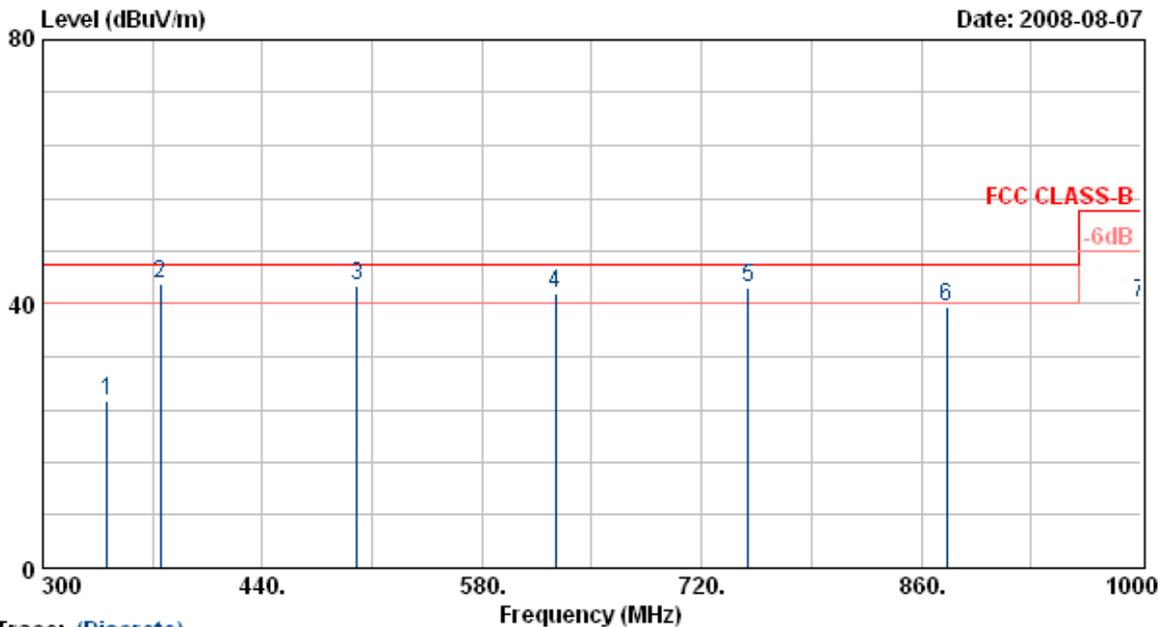
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 1
Modulation Type : 802.11g
Rate          : 6 Mbps
Memo          : MT12-Y120100-A1

Pol/Phase     : HORIZONTAL
Temperature    : 30 °C
Humidity       : 65 %
Atmospheric Pressure: 1020 hPa
    
```



Trace: (Discrete)

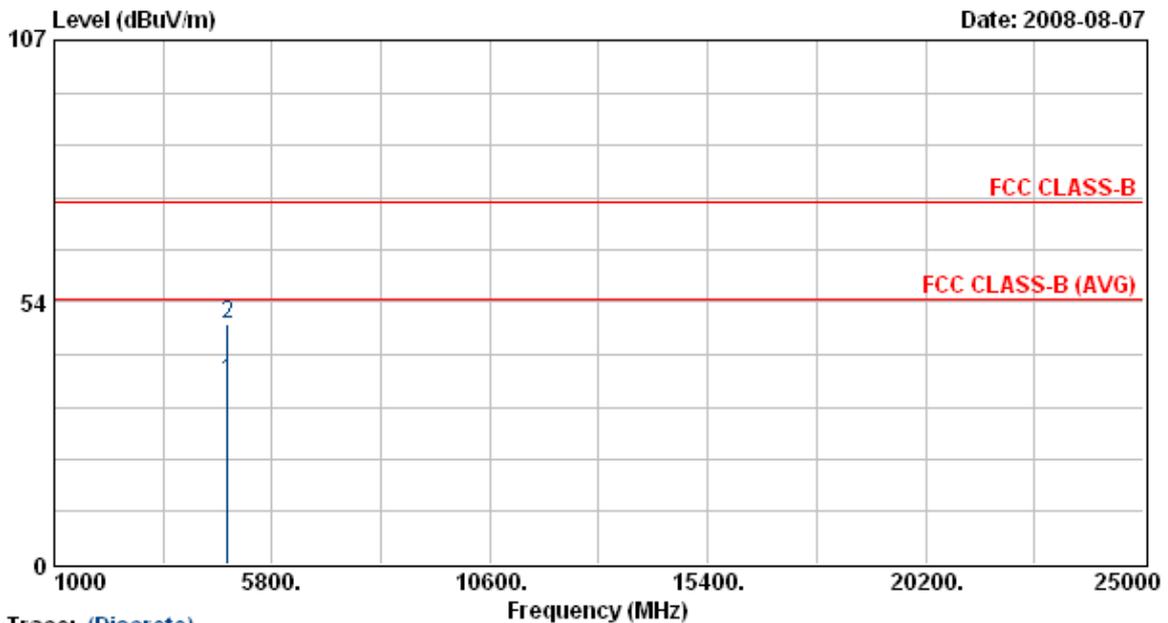
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	341.30	38.25	-13.02	25.23	46.00	-20.77	Peak	100	78
2	374.98	53.15	-10.16	42.99	46.00	-3.01	QP	100	49
3	500.00	46.89	-4.20	42.69	46.00	-3.31	QP	100	59
4	626.90	43.36	-1.84	41.52	46.00	-4.48	QP	100	59
5	749.99	42.26	0.32	42.58	46.00	-3.42	QP	100	98
6	876.10	35.69	3.87	39.56	46.00	-6.44	Peak	100	103
7	999.99	37.00	3.28	40.28	54.00	-13.72	Peak	100	80

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



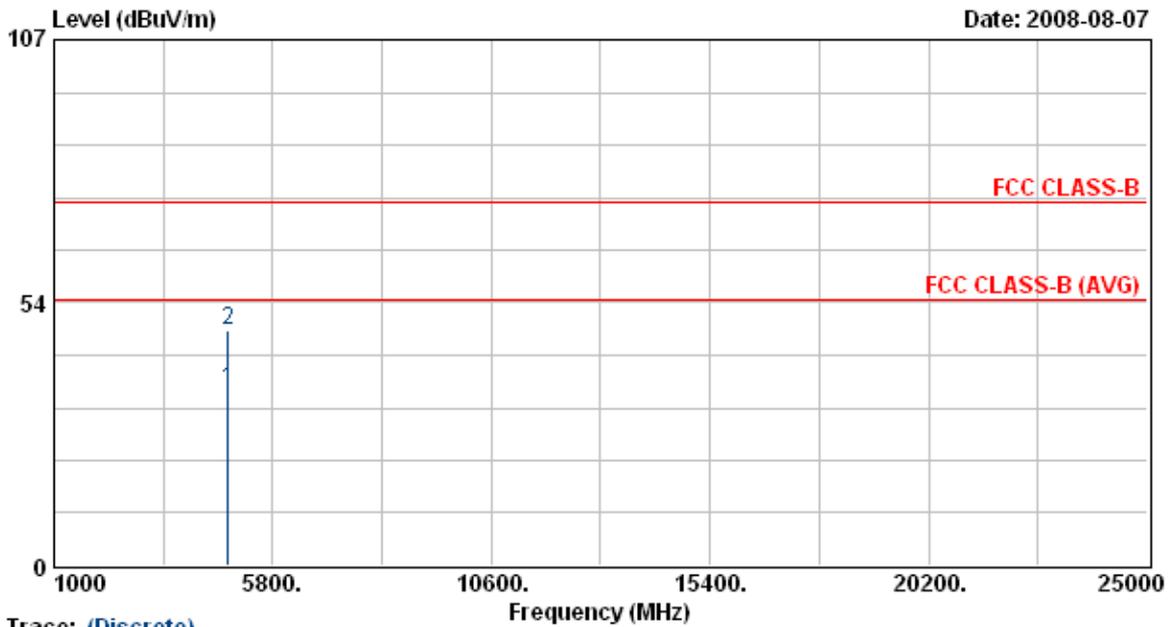
Trace: (Discrete)

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	4823.93	31.87	5.67	37.55	54.00	-16.45	Average	130	271
2	4823.93	43.55	5.67	49.22	74.00	-24.78	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11b		
Rate	: 11 Mbps		
Memo	: MT12-Y120100-A1		



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	4824.03	30.28	5.67	35.95	54.00	-18.05	Average	124	286
2	4824.03	42.08	5.67	47.75	74.00	-26.25	Peak	124	286

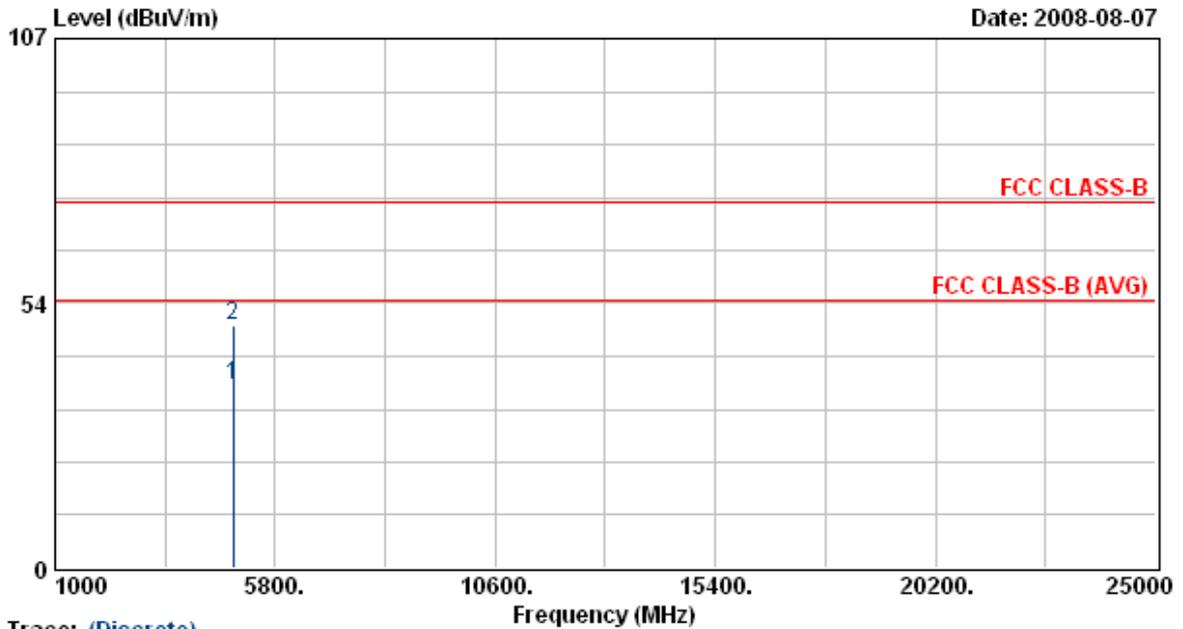
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 6
Modulation Type : 802.11b
Rate          : 11 Mbps
Memo          : MT12-Y120100-A1

Pol/Phase    : VERTICAL
Temperature   : 30 °C
Humidity      : 65 %
Atmospheric Pressure: 1020 hPa
    
```



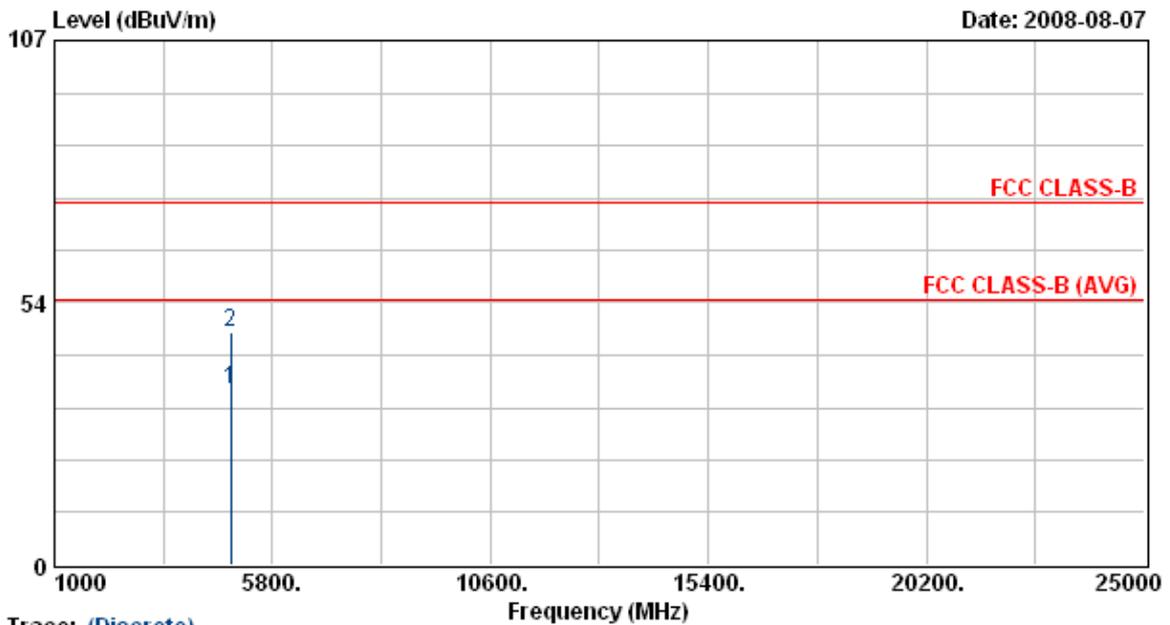
Trace: (Discrete)

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	4874.03	31.22	5.80	37.02	54.00	-16.98	Average	130	271
2	4874.03	43.10	5.80	48.90	74.00	-25.10	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11b		
Rate	: 11 Mbps		
Memo	: MT12-Y120100-A1		



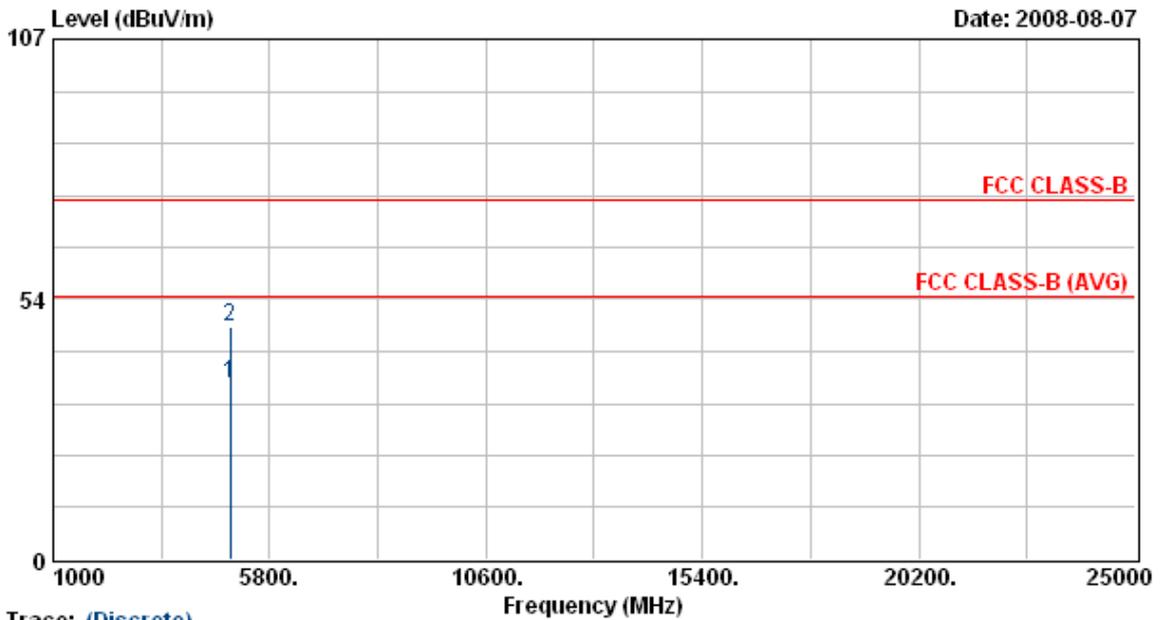
Trace: (Discrete)

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	29.99	5.80	35.79	54.00	-18.21	Average	124	286
2	4874.00	41.57	5.80	47.37	74.00	-26.63	Peak	124	286

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11b		
Rate	: 11 Mbps		
Memo	: MT12-Y120100-A1		



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	4923.95	30.10	5.93	36.04	54.00	-17.96	Average	130	271
2	4923.95	41.80	5.93	47.74	74.00	-26.26	Peak	130	271

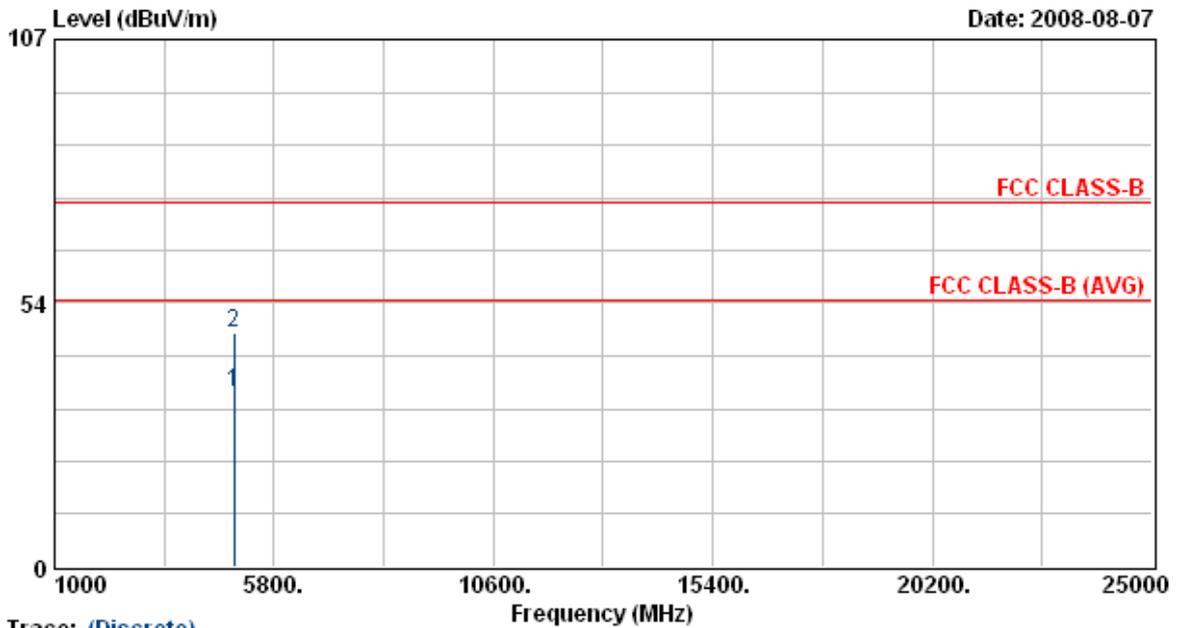
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 11
Modulation Type : 802.11b
Rate         : 11 Mbps
Memo         : MT12-Y120100-A1

Pol/Phase     : HORIZONTAL
Temperature   : 30 °C
Humidity      : 65 %
Atmospheric Pressure: 1020 hPa
    
```



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	4924.03	29.65	5.93	35.58	54.00	-18.42	Average	124	286
2	4924.03	41.50	5.93	47.43	74.00	-26.57	Peak	124	286

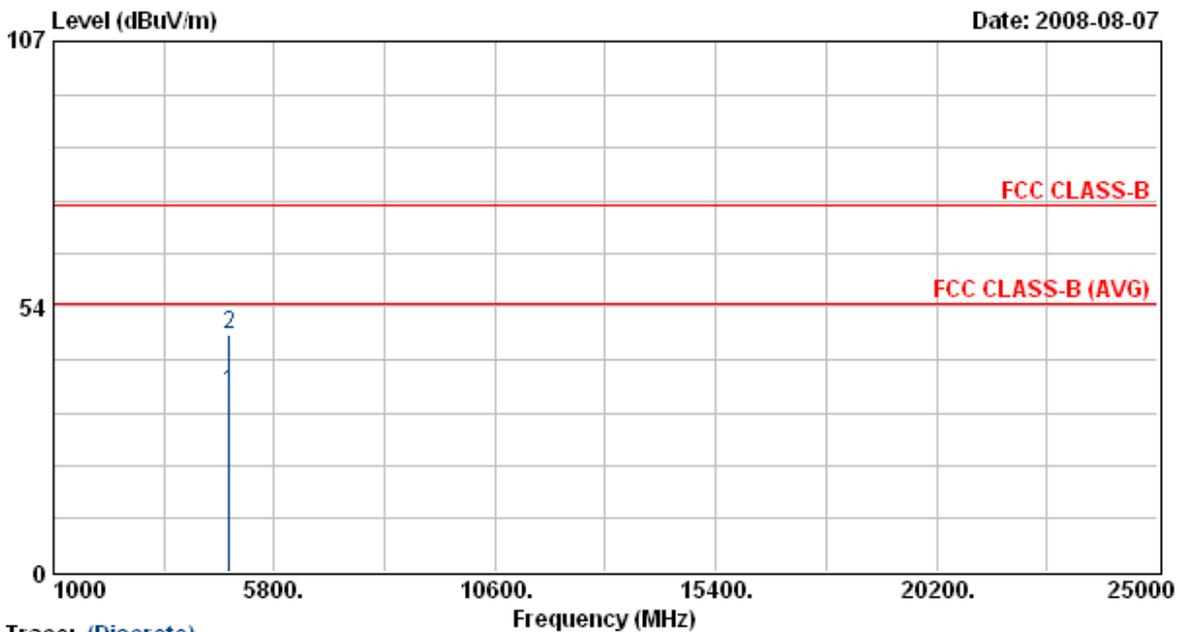
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 1
Modulation Type : 802.11g
Rate         : 6 Mbps
Memo         : MT12-Y120100-A1

Pol/Phase    : VERTICAL
Temperature   : 30 °C
Humidity     : 65 %
Atmospheric Pressure: 1020 hPa
    
```



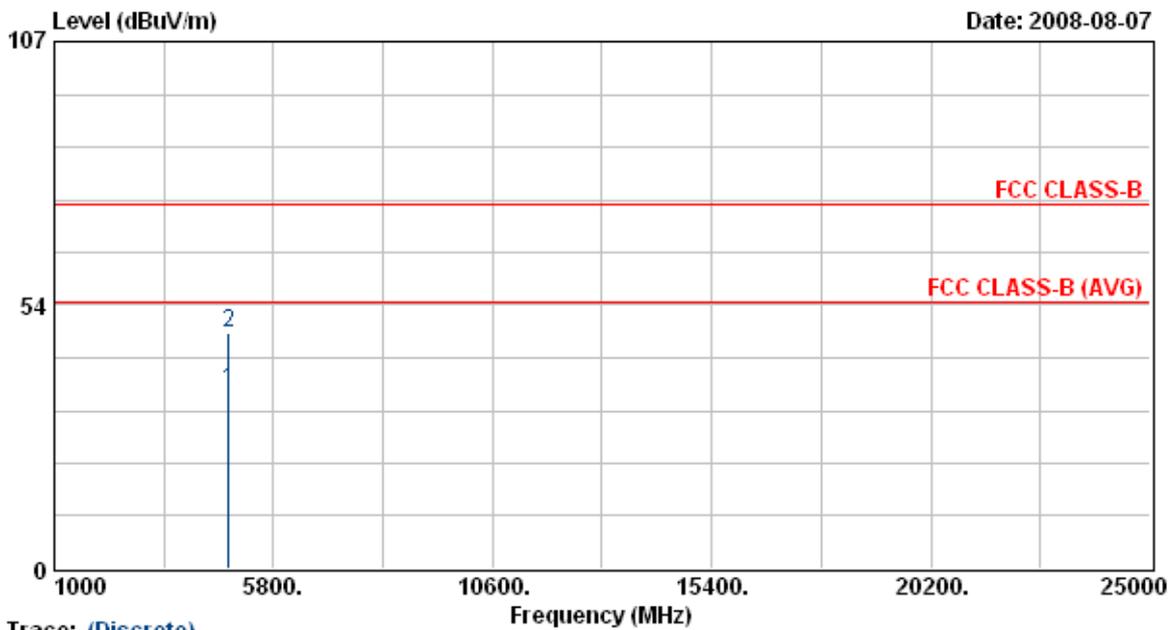
Trace: (Discrete)

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	4824.05	30.58	5.67	36.25	54.00	-17.75	Average	130	271
2	4824.05	42.26	5.67	47.93	74.00	-26.07	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11g		
Rate	: 6 Mbps		
Memo	: MT12-Y120100-A1		



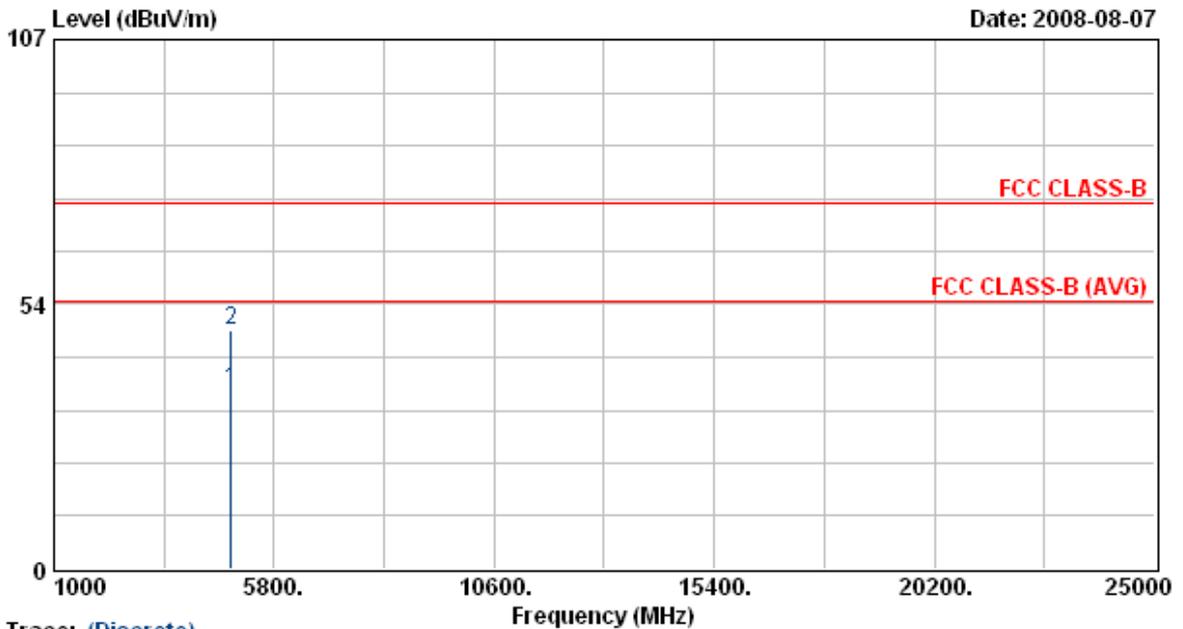
Trace: (Discrete)

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	4824.03	30.32	5.67	35.99	54.00	-18.01	Average	124	286
2	4824.03	42.07	5.67	47.74	74.00	-26.26	Peak	124	286

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11g
 Rate : 6 Mbps
 Memo : MT12-Y120100-A1
 Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



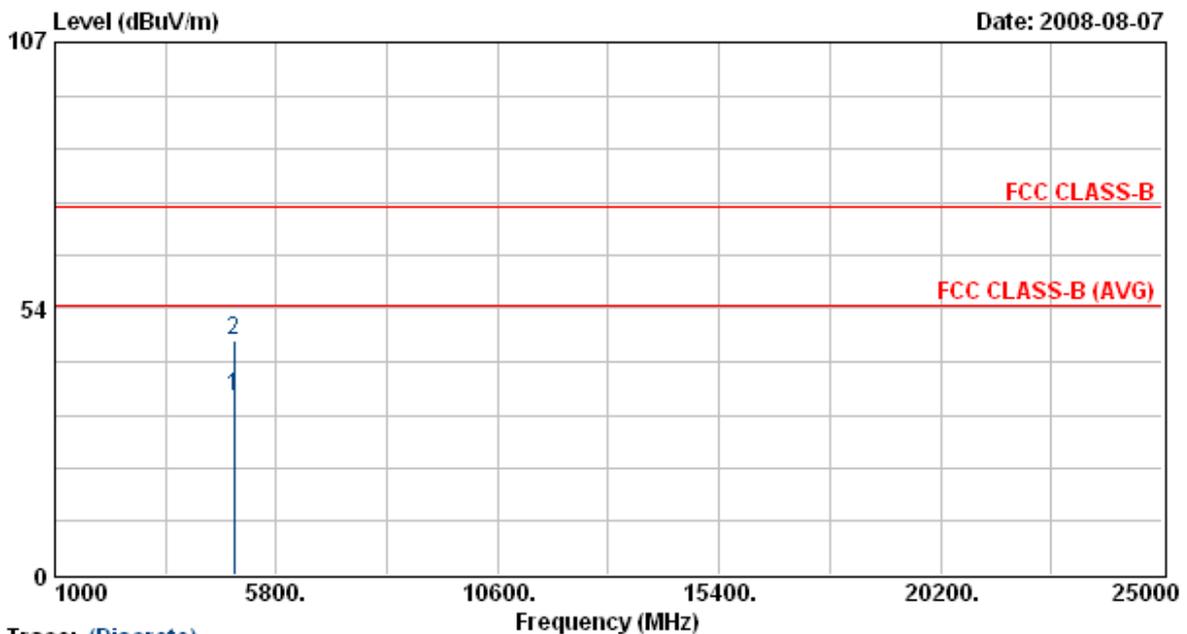
Trace: (Discrete)

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	4872.83	30.43	5.80	36.23	54.00	-17.77	Average	130	271
2	4872.83	42.31	5.80	48.11	74.00	-25.89	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11g		
Rate	: 6 Mbps		
Memo	: MT12-Y120100-A1		



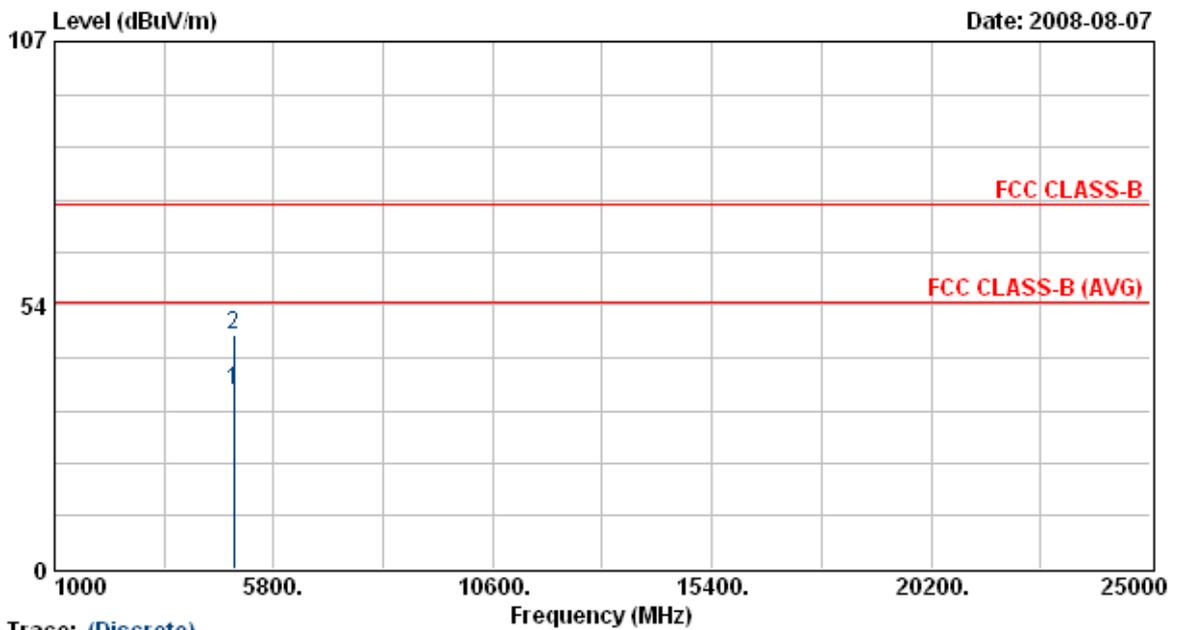
Trace: (Discrete)

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	4873.03	29.94	5.80	35.74	54.00	-18.26	Average	124	286
2	4873.03	41.44	5.80	47.24	74.00	-26.76	Peak	124	286

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11g		
Rate	: 6 Mbps		
Memo	: MT12-Y120100-A1		



Trace: (Discrete)

Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	4927.40	30.15	5.94	36.09	54.00	-17.91	Average	130	271
2	4927.40	41.72	5.94	47.66	74.00	-26.34	Peak	130	271

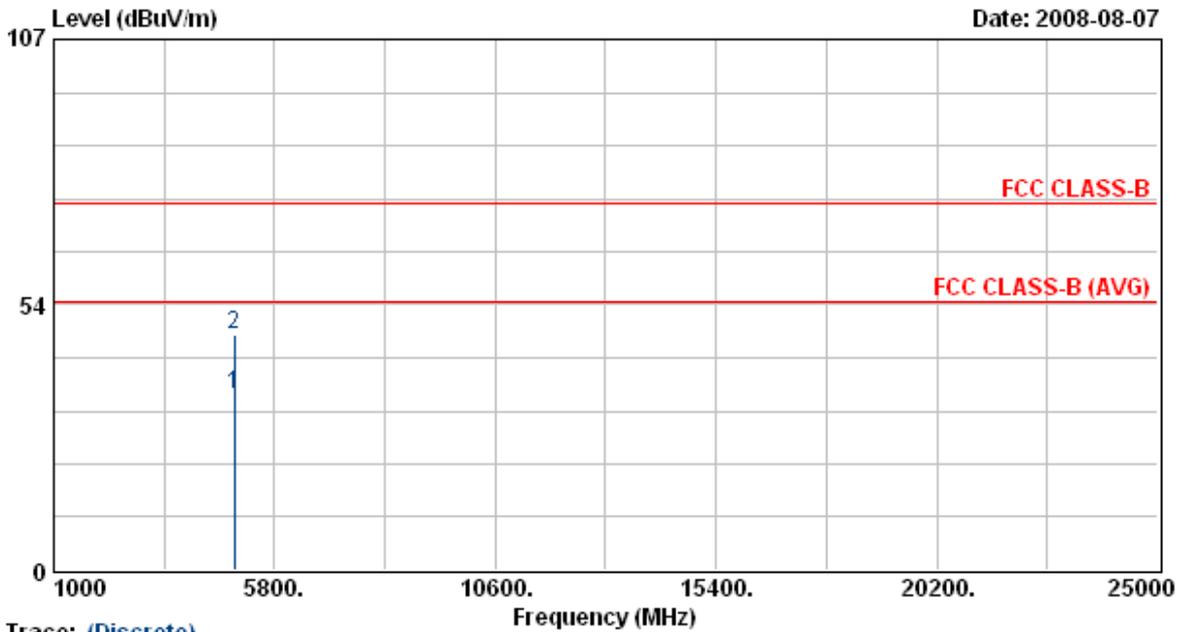
Notes:

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.

```

EUT           : 08071802
Power         : AC 120V
Test Mode     : Transmit/Receive
Operation Channel: 11
Modulation Type : 802.11g
Rate          : 6 Mbps
Memo          : MT12-Y120100-A1

Pol/Phase     : HORIZONTAL
Temperature   : 30 °C
Humidity      : 65 %
Atmospheric Pressure: 1020 hPa
    
```



Trace: (Discrete)

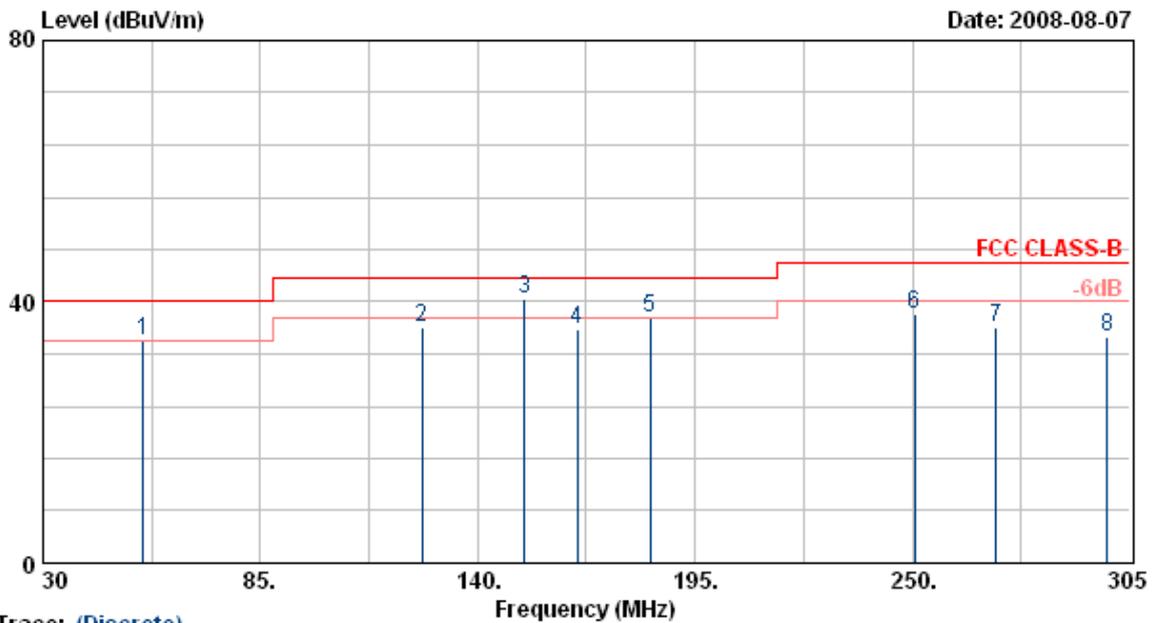
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.88	29.62	5.93	35.55	54.00	-18.45	Average	124	286
2	4923.88	41.47	5.93	47.40	74.00	-26.60	Peak	124	286

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 Mode 7

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: MT12-Y120100-A1		



Trace: (Discrete)

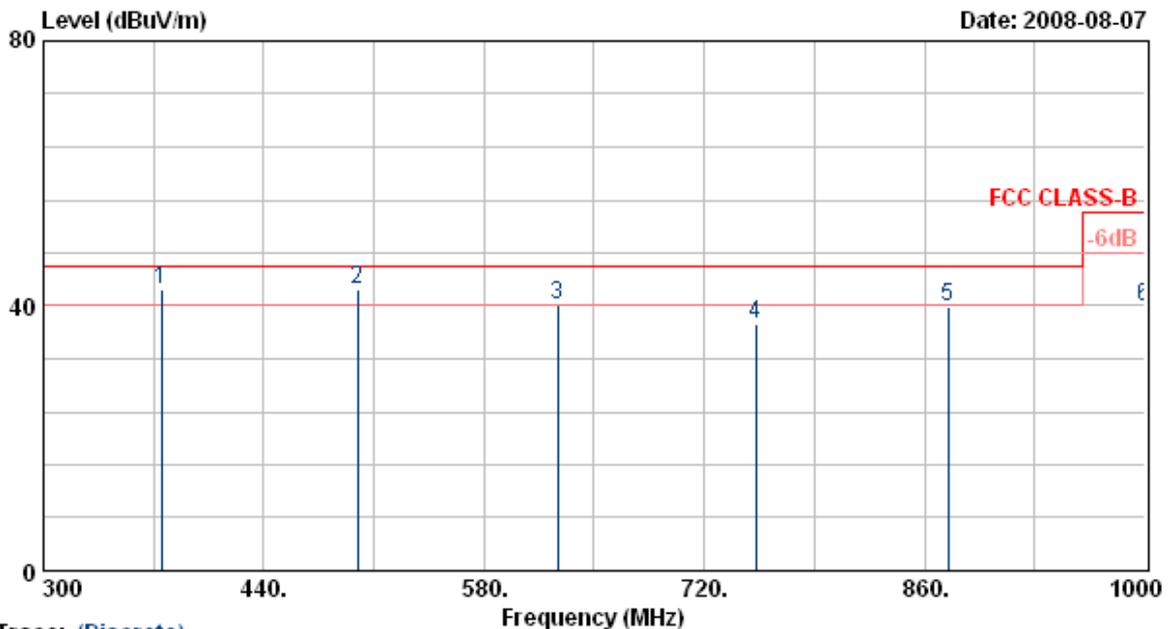
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	55.30	49.95	-15.95	34.00	40.00	-6.00	Peak	100	100
2	125.98	49.64	-13.65	35.99	43.50	-7.51	Peak	100	92
3	151.80	52.45	-12.14	40.31	43.50	-3.19	QP	100	92
4	165.30	48.97	-13.12	35.85	43.50	-7.65	Peak	100	120
5	183.73	46.99	-9.47	37.52	43.50	-5.98	Peak	100	120
6	250.55	50.77	-12.68	38.09	46.00	-7.91	Peak	100	87
7	271.18	44.36	-8.39	35.97	46.00	-10.03	Peak	100	96
8	299.23	43.82	-9.25	34.57	46.00	-11.43	Peak	100	96

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

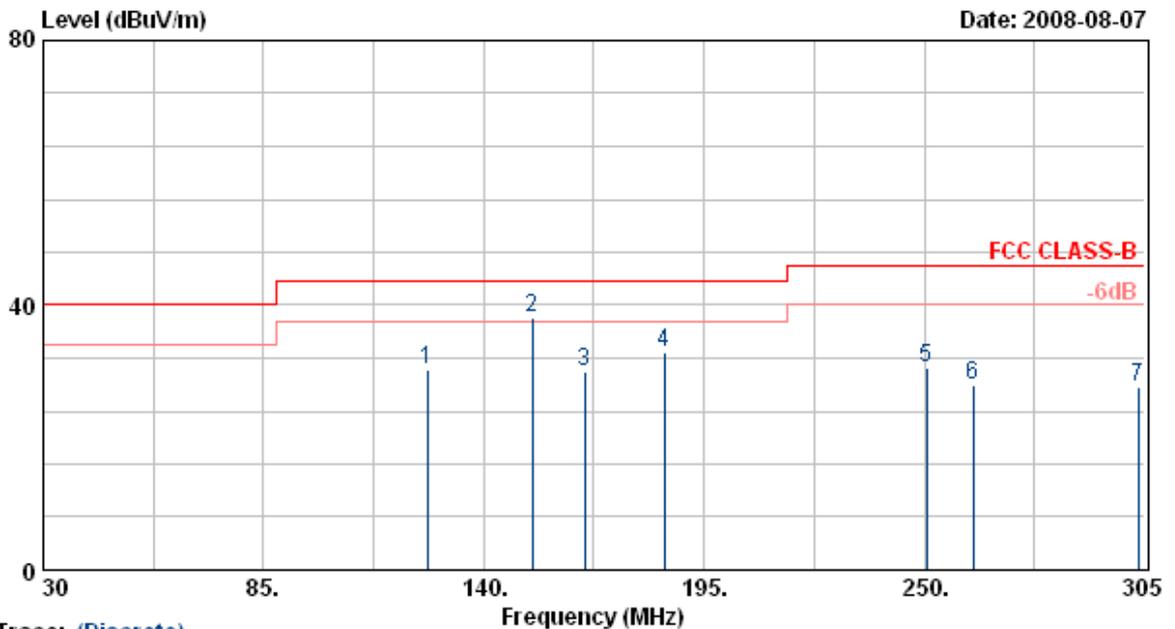
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	374.90	51.39	-8.87	42.52	46.00	-3.48	QP	100	77
2	499.98	47.46	-4.86	42.60	46.00	-3.40	QP	100	77
3	626.90	43.82	-3.58	40.24	46.00	-5.76	QP	100	97
4	752.90	36.80	0.38	37.18	46.00	-8.82	Peak	100	107
5	875.05	38.00	1.80	39.80	46.00	-6.20	Peak	100	107
6	999.99	38.54	1.42	39.96	54.00	-14.04	Peak	100	107

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

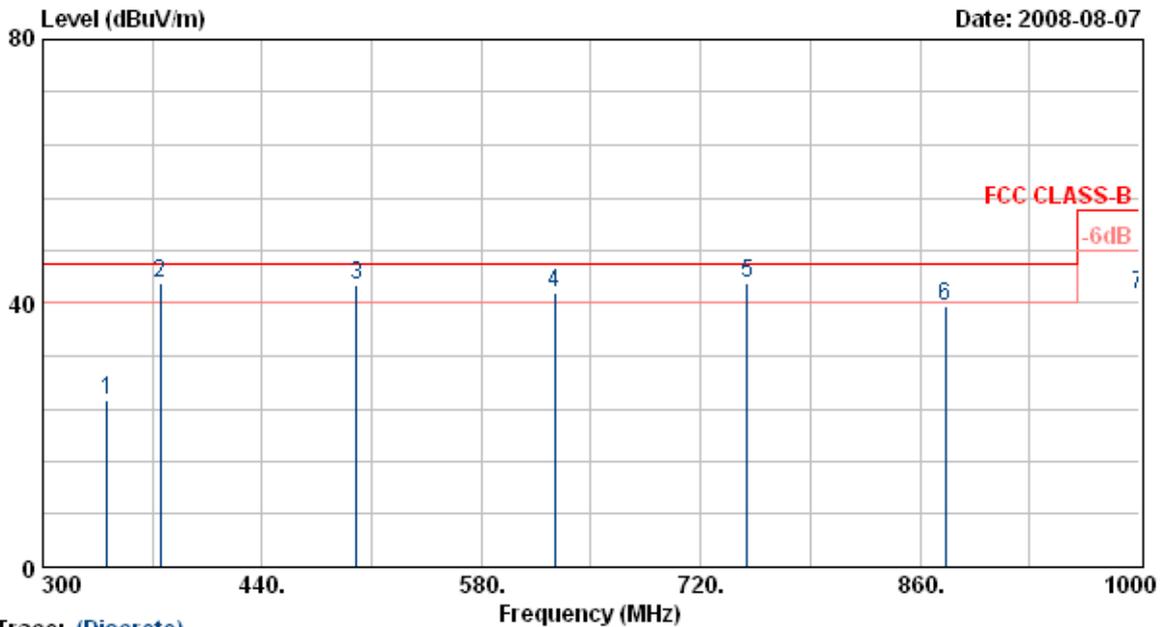
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	125.98	49.85	-19.62	30.23	43.50	-13.27	Peak	100	50
2	152.10	55.69	-17.55	38.14	43.50	-5.36	QP	100	76
3	165.30	48.93	-18.88	30.05	43.50	-13.45	Peak	100	99
4	185.10	50.63	-17.81	32.82	43.50	-10.68	Peak	100	112
5	250.55	47.96	-17.50	30.46	46.00	-15.54	Peak	100	112
6	262.10	43.18	-15.20	27.98	46.00	-18.02	Peak	100	124
7	303.35	41.70	-14.09	27.61	46.00	-18.39	Peak	100	124

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa

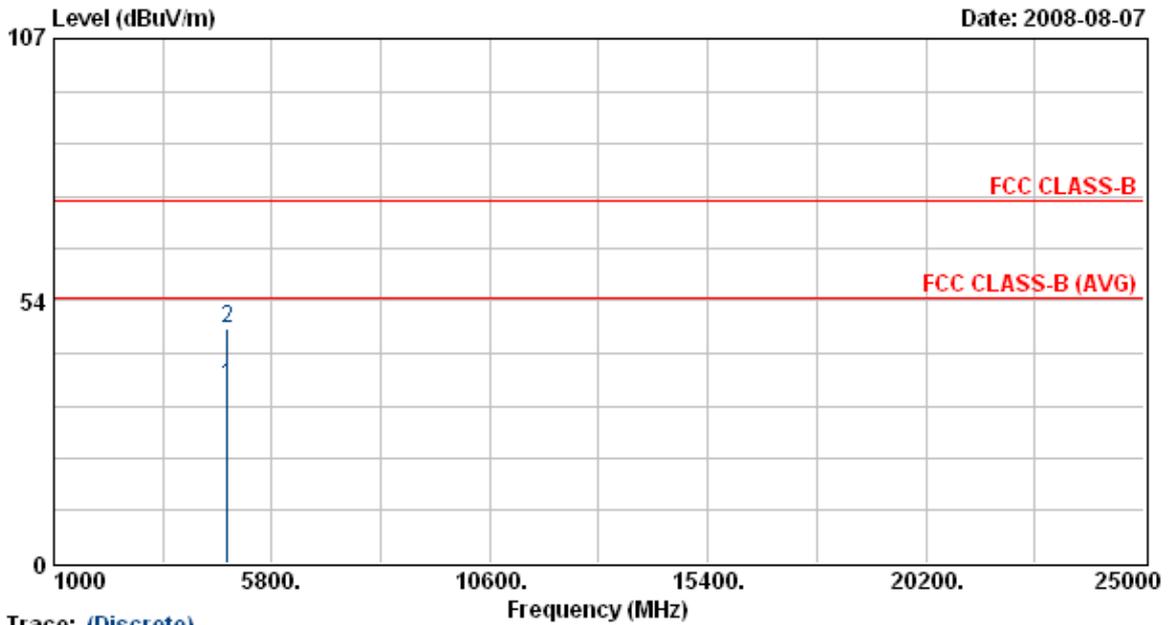


Trace: (Discrete)

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	341.30	38.20	-13.02	25.18	46.00	-20.82	Peak	100	78
2	374.98	53.15	-10.16	42.99	46.00	-3.01	QP	100	49
3	500.00	46.96	-4.20	42.76	46.00	-3.24	QP	100	59
4	626.90	43.36	-1.84	41.52	46.00	-4.48	QP	100	59
5	749.99	42.76	0.32	43.08	46.00	-2.92	QP	100	98
6	876.10	35.69	3.87	39.56	46.00	-6.44	Peak	100	103
7	999.99	38.00	3.28	41.28	54.00	-12.72	Peak	100	80

- 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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: MT12-Y120100-A1		



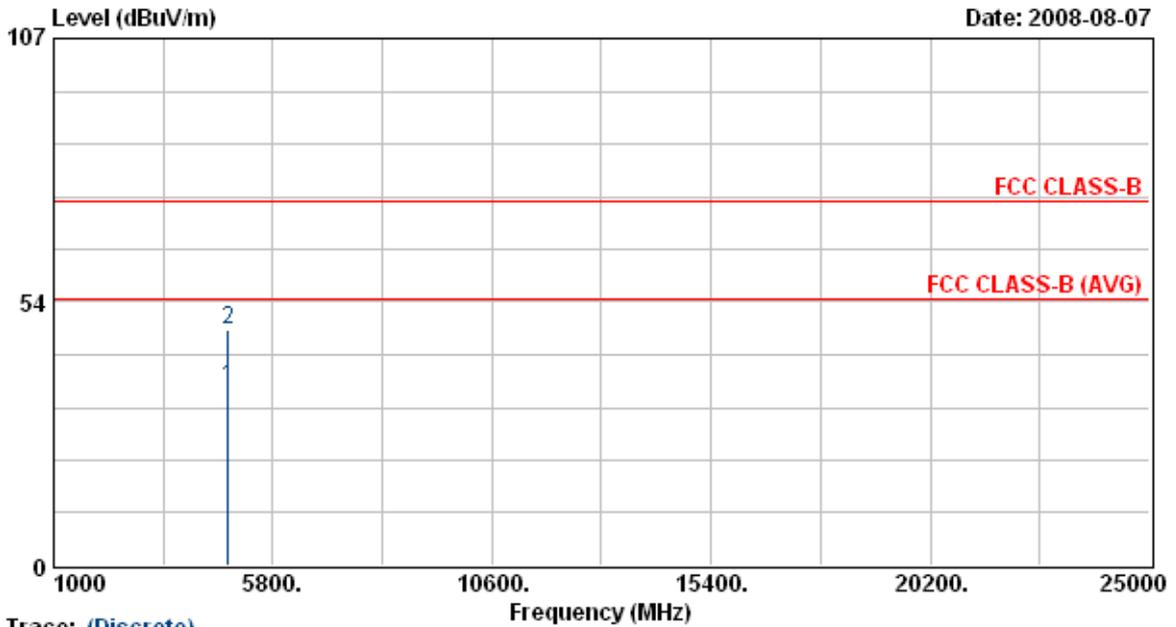
Trace: (Discrete)

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	4824.83	30.57	5.67	36.25	54.00	-17.75	Average	130	271
2	4824.83	42.22	5.67	47.89	74.00	-26.11	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: MT12-Y120100-A1		



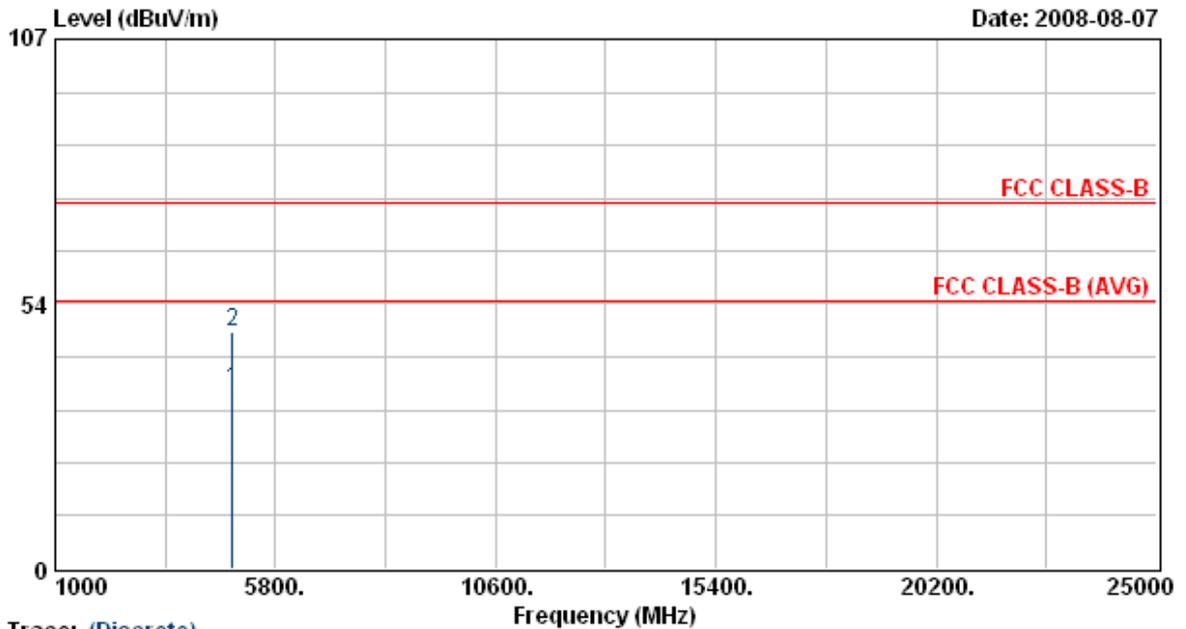
Trace: (Discrete)

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	4824.03	30.33	5.67	36.00	54.00	-18.00	Average	124	286
2	4824.03	42.30	5.67	47.97	74.00	-26.03	Peak	124	286

- 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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

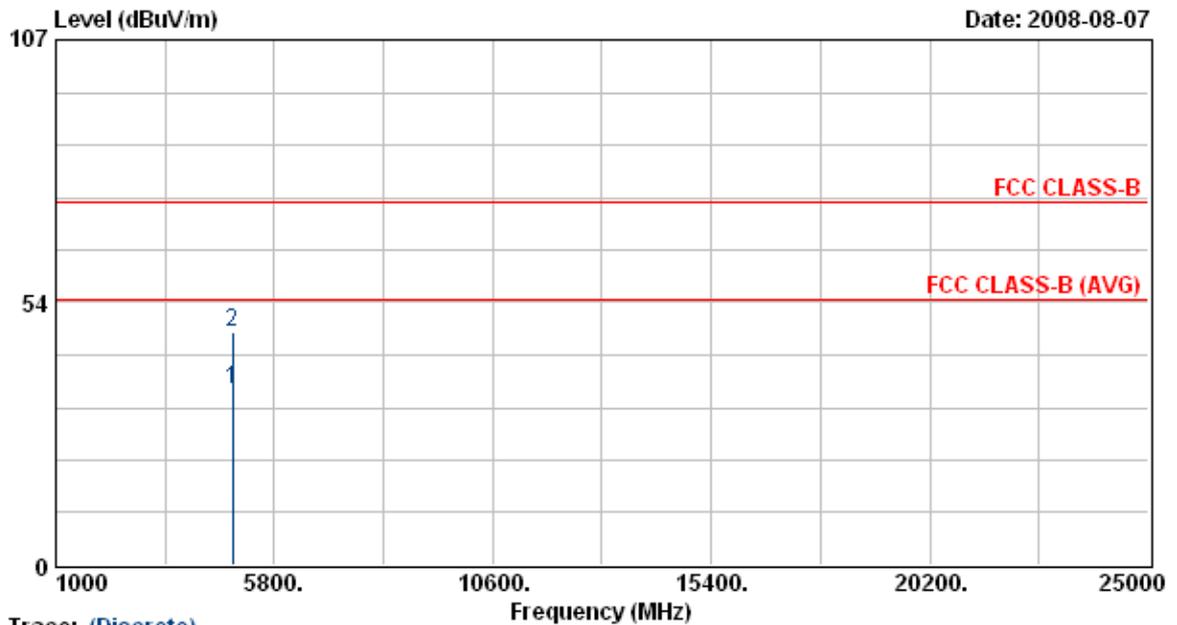
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4871.00	30.34	5.79	36.14	54.00	-17.86	Average	130	271
2	4871.00	42.12	5.79	47.91	74.00	-26.09	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



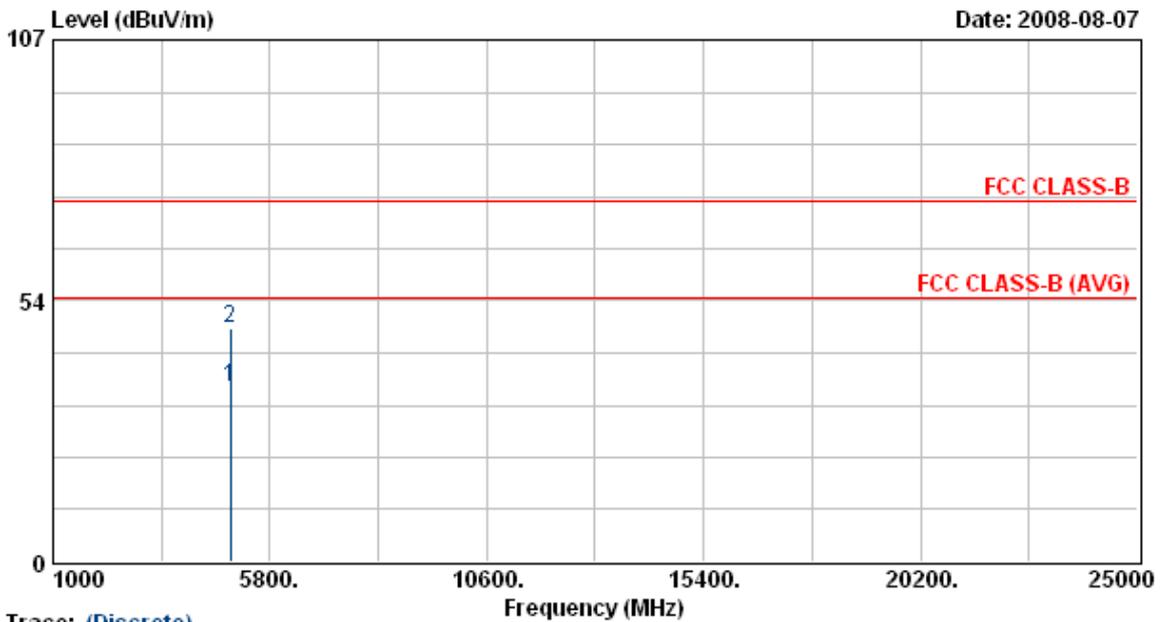
Trace: (Discrete)

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	4873.98	29.80	5.80	35.60	54.00	-18.40	Average	124	286
2	4873.98	41.60	5.80	47.40	74.00	-26.60	Peak	124	286

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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT20		
Rate	: 6.5 Mbps		
Memo	: MT12-Y120100-A1		



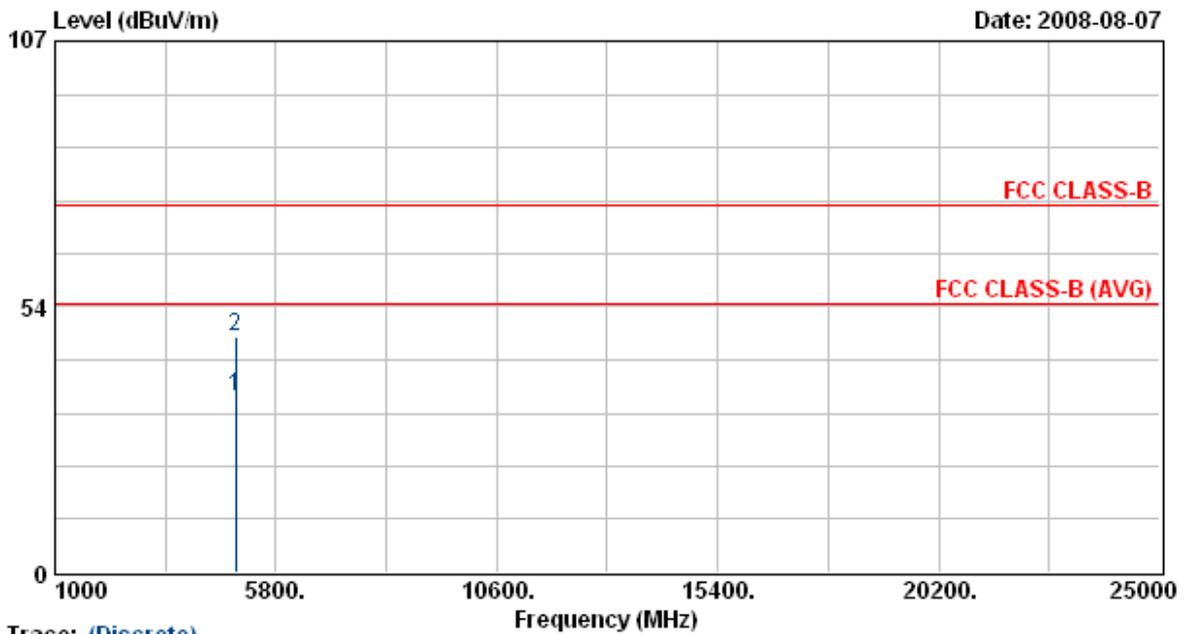
Trace: (Discrete)

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	4919.95	30.00	5.92	35.92	54.00	-18.08	Average	130	271
2	4919.95	41.77	5.92	47.69	74.00	-26.31	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11n HT20
 Rate : 6.5 Mbps
 Memo : MT12-Y120100-A1
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



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	4924.33	29.61	5.93	35.54	54.00	-18.46	Average	124	286
2	4924.33	41.41	5.93	47.34	74.00	-26.66	Peak	124	286

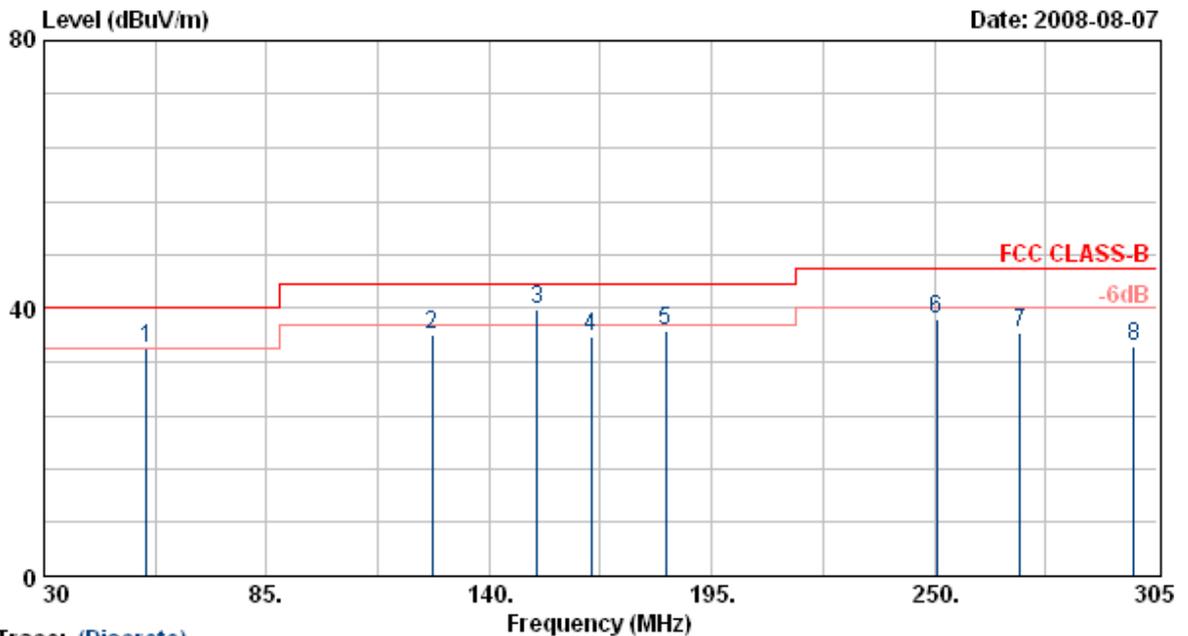
Notes:

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 Mode 8

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 3
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa

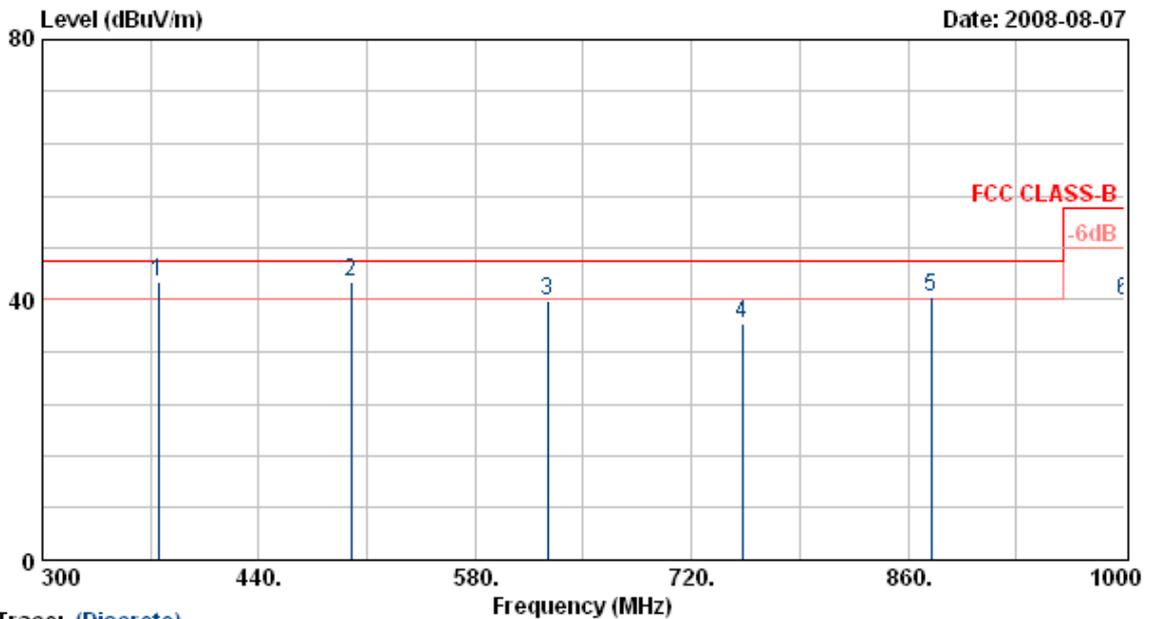


Trace: (Discrete)

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	55.30	49.97	-15.95	34.01	40.00	-5.99	QP	100	100
2	125.98	49.64	-13.65	35.99	43.50	-7.51	Peak	100	92
3	151.80	52.00	-12.14	39.86	43.50	-3.64	QP	100	92
4	165.30	48.97	-13.12	35.85	43.50	-7.65	Peak	100	120
5	183.73	46.23	-9.47	36.76	43.50	-6.74	Peak	100	120
6	250.55	50.96	-12.68	38.28	46.00	-7.72	Peak	100	87
7	271.18	44.83	-8.39	36.44	46.00	-9.56	Peak	100	96
8	299.23	43.49	-9.25	34.24	46.00	-11.76	Peak	100	96

- 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.

EUT	: 08071802	Pol/Phase	: VERTICAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 3	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT40		
Rate	: 13.5 Mbps		
Memo	: MT12-Y120100-A1		



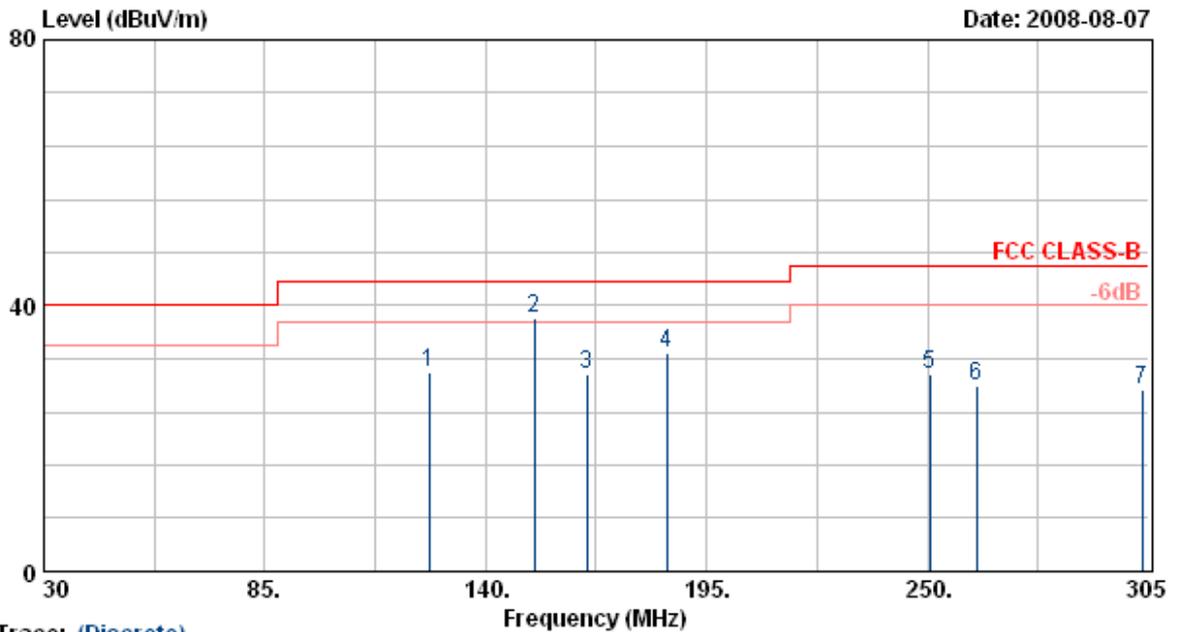
Trace: (Discrete)

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	374.90	51.59	-8.87	42.72	46.00	-3.28	QP	100	77
2	499.98	47.76	-4.86	42.90	46.00	-3.10	QP	100	77
3	626.90	43.55	-3.58	39.97	46.00	-6.03	QP	100	97
4	752.90	35.84	0.38	36.22	46.00	-9.78	Peak	100	107
5	875.05	38.73	1.80	40.53	46.00	-5.47	QP	100	107
6	999.99	38.54	1.42	39.96	54.00	-14.04	Peak	100	107

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 3
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : MT12-Y120100-A1
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



Trace: (Discrete)

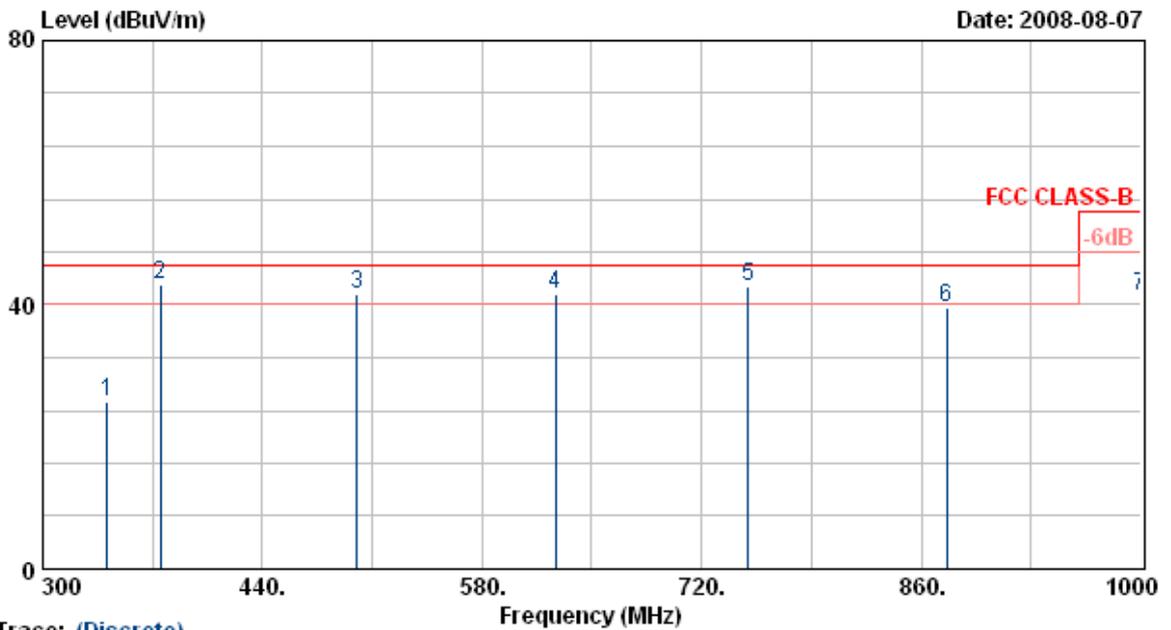
Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	125.98	49.58	-19.62	29.96	43.50	-13.54	Peak	100	50
2	152.10	55.69	-17.55	38.14	43.50	-5.36	QP	100	76
3	165.30	48.52	-18.88	29.64	43.50	-13.86	Peak	100	99
4	185.10	50.63	-17.81	32.82	43.50	-10.68	Peak	100	112
5	250.55	47.29	-17.50	29.79	46.00	-16.21	Peak	100	112
6	262.10	43.18	-15.20	27.98	46.00	-18.02	Peak	100	124
7	303.35	41.56	-14.09	27.47	46.00	-18.53	Peak	100	124

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel : 3
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure : 1020 hPa



Trace: (Discrete)

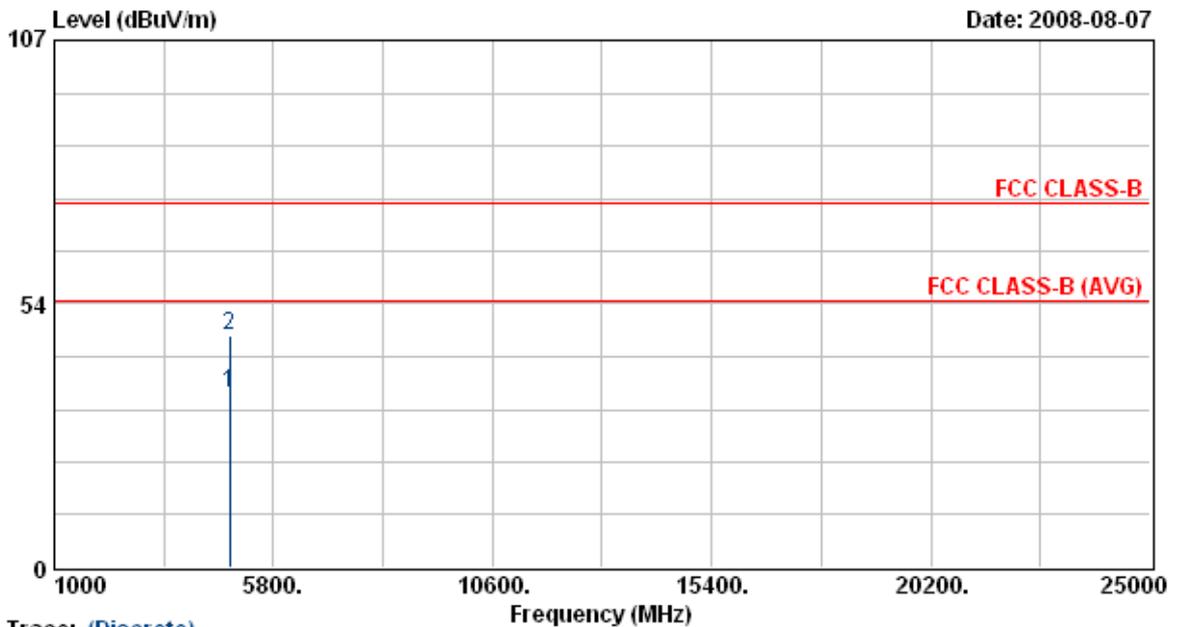
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV/m	dB		cm	Deg
1	341.30	38.29	-13.02	25.27	46.00	-20.73	Peak	100	78
2	374.98	53.15	-10.16	42.99	46.00	-3.01	QP	100	49
3	500.00	45.89	-4.20	41.69	46.00	-4.31	QP	100	59
4	626.90	43.36	-1.84	41.52	46.00	-4.48	QP	100	59
5	749.99	42.56	0.32	42.88	46.00	-3.12	QP	100	98
6	876.10	35.69	3.87	39.56	46.00	-6.44	Peak	100	103
7	999.99	38.00	3.28	41.28	54.00	-12.72	Peak	100	80

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 3
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



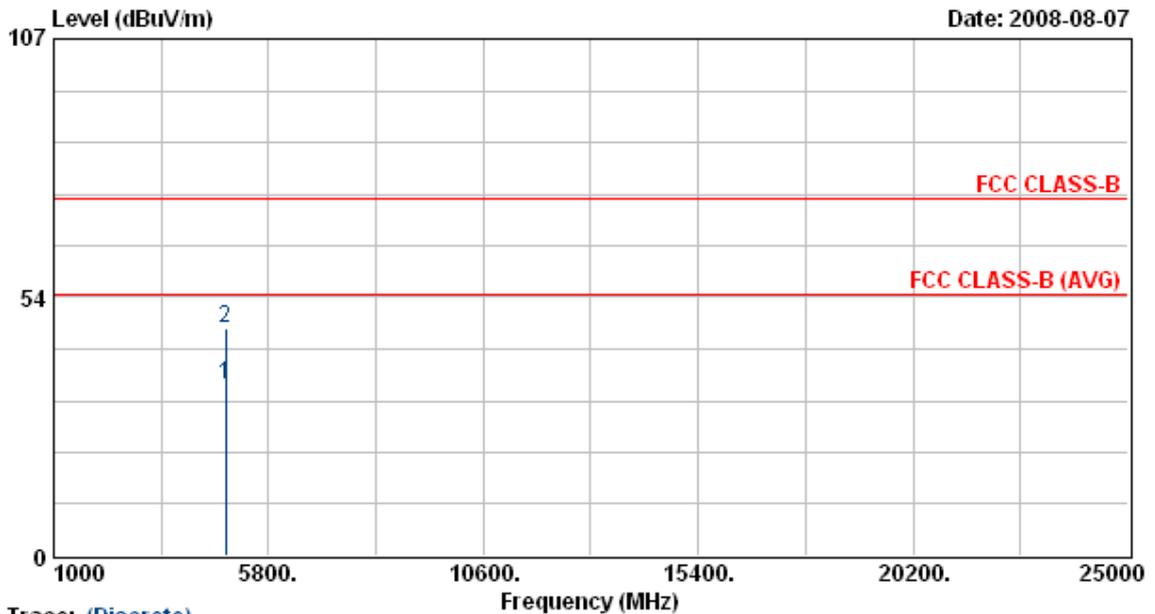
Trace: (Discrete)

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	4843.98	29.74	5.72	35.46	54.00	-18.54	Average	130	271
2	4843.98	41.54	5.72	47.26	74.00	-26.74	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 3	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT40		
Rate	: 13.5 Mbps		
Memo	: MT12-Y120100-A1		



Trace: (Discrete)

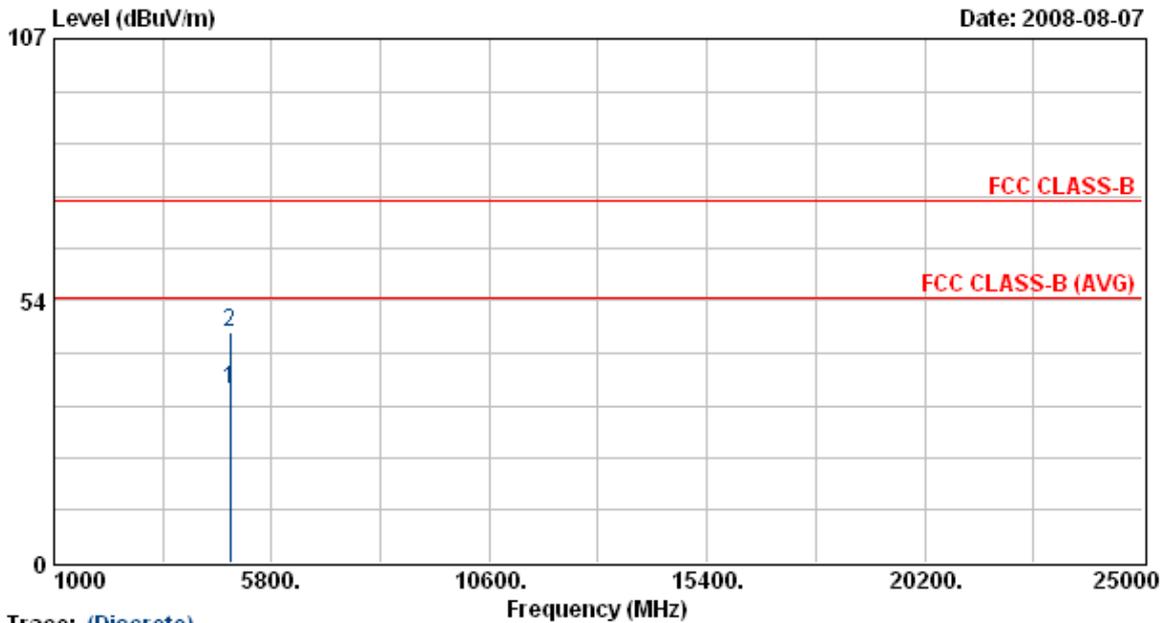
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4842.68	29.52	5.72	35.25	54.00	-18.75	Average	124	286
2	4842.68	41.25	5.72	46.97	74.00	-27.03	Peak	124	286

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



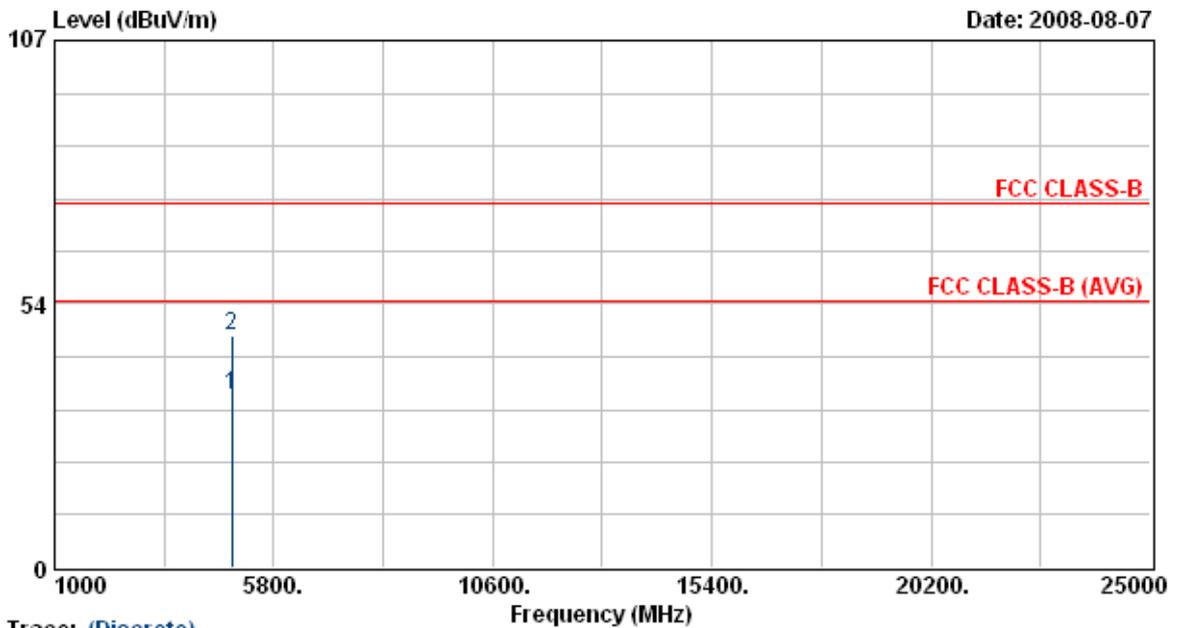
Trace: (Discrete)

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	4874.08	29.58	5.80	35.38	54.00	-18.62	Average	130	271
2	4874.08	41.29	5.80	47.09	74.00	-26.91	Peak	130	271

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.

EUT	: 08071802	Pol/Phase	: HORIZONTAL
Power	: AC 120V	Temperature	: 30 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1020 hPa
Modulation Type	: 802.11n HT40		
Rate	: 13.5 Mbps		
Memo	: MT12-Y120100-A1		



Trace: (Discrete)

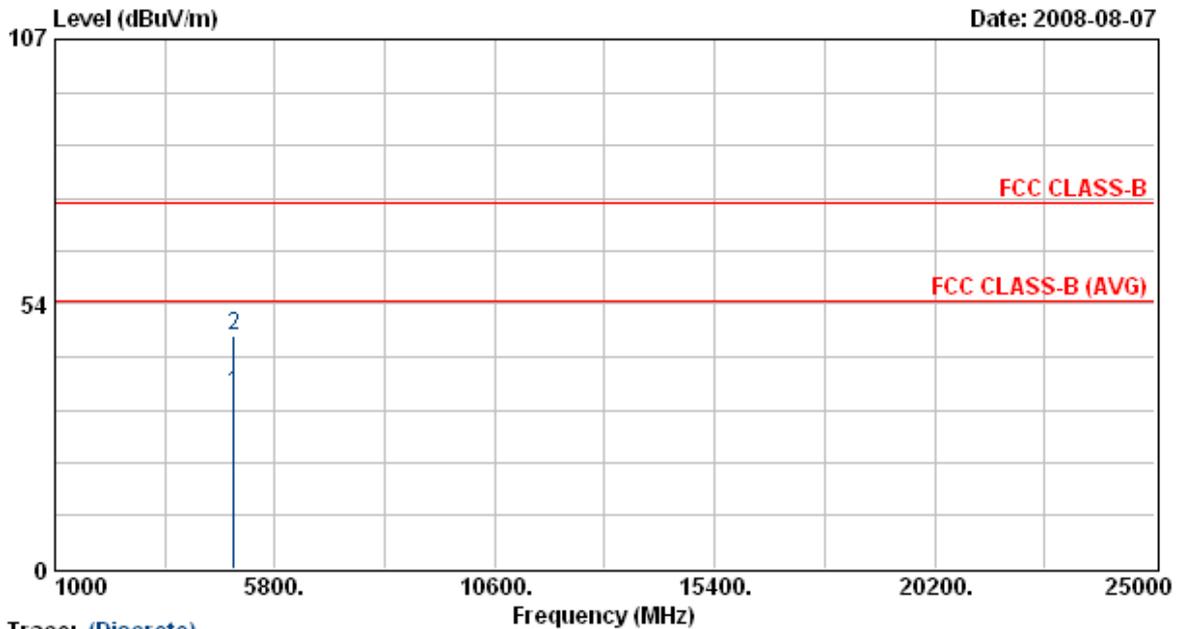
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.98	29.38	5.80	35.18	54.00	-18.82	Average	124	286
2	4873.98	41.17	5.80	46.97	74.00	-27.03	Peak	124	286

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 9
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : MT12-Y120100-A1

Pol/Phase : VERTICAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



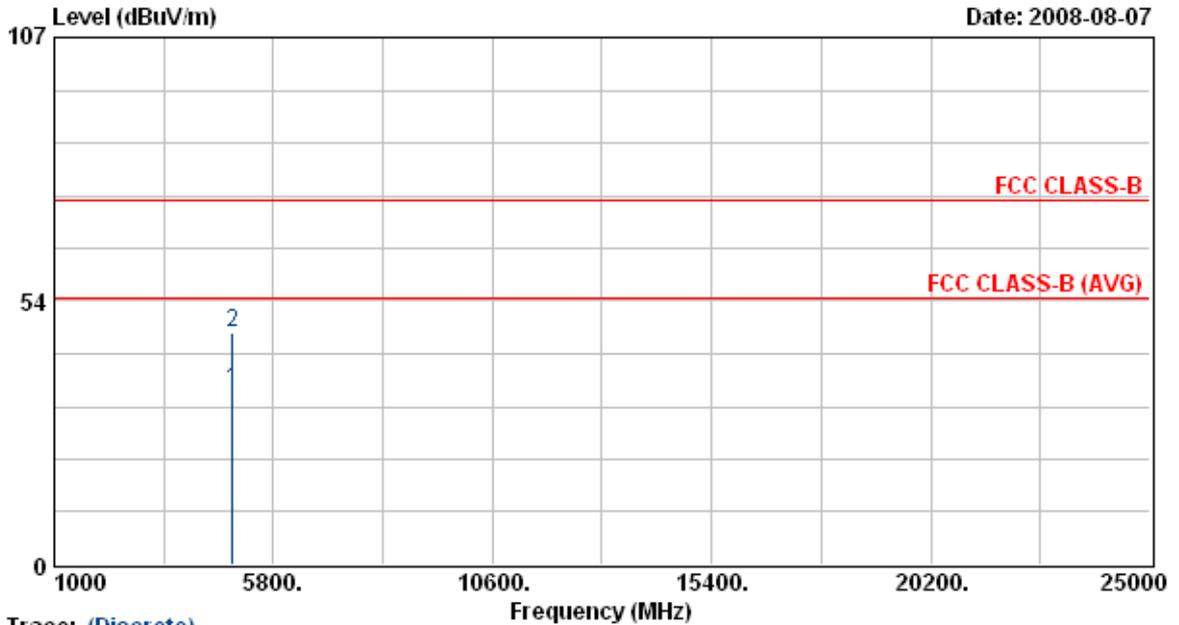
Trace: (Discrete)

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	4904.03	29.47	5.88	35.35	54.00	-18.65	Average	130	271
2	4904.03	41.21	5.88	47.09	74.00	-26.91	Peak	130	271

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.

EUT : 08071802
 Power : AC 120V
 Test Mode : Transmit/Receive
 Operation Channel: 9
 Modulation Type : 802.11n HT40
 Rate : 13.5 Mbps
 Memo : MT12-Y120100-A1
 Pol/Phase : HORIZONTAL
 Temperature : 30 °C
 Humidity : 65 %
 Atmospheric Pressure: 1020 hPa



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	4904.03	29.34	5.88	35.22	54.00	-18.78	Average	124	286
2	4904.03	41.17	5.88	47.05	74.00	-26.95	Peak	124	286

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

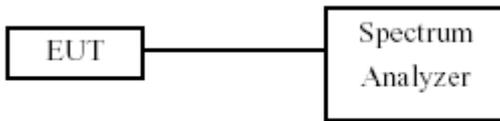
6.1 Test Limit

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.
- d.

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	2008/02/22	2009/02/21

6.5 Test Result and Data

Test Date: Aug. 08, 2008

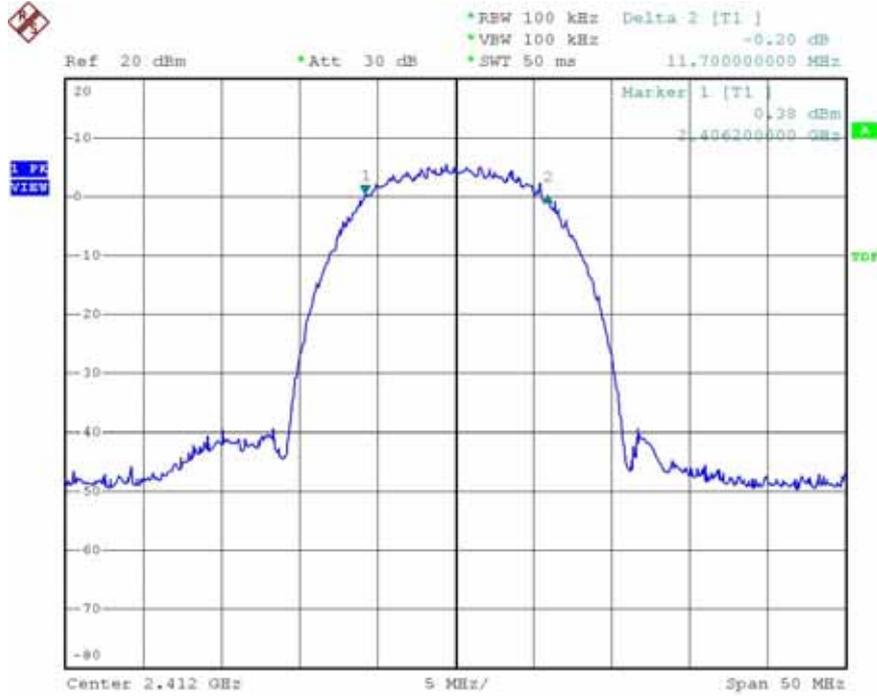
Temperature: 20

Atmospheric pressure: 1008 hPa

Humidity: 60%

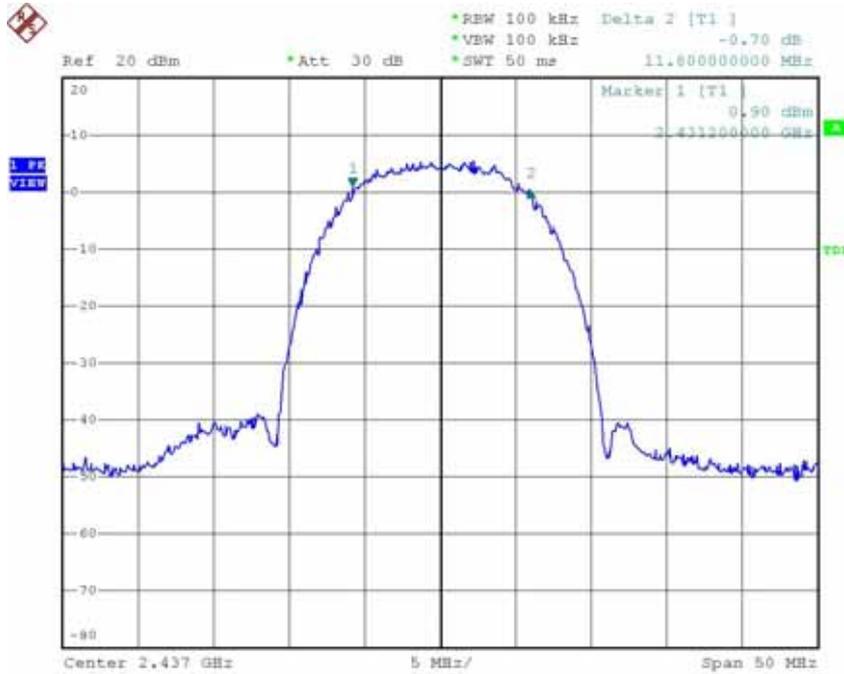
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			ANT R	ANT L
802.11b (11Mbps)	01	2412	11.70	10.70
	06	2437	11.80	11.80
	11	2462	12.00	12.00
802.11g (6Mbps)	01	2412	16.40	16.40
	06	2437	16.40	16.40
	11	2462	16.50	16.40
802.11n HT20 (6.5Mbps)	01	2412	17.60	17.50
	06	2437	17.60	17.60
	11	2462	17.50	17.50
802.11n HT40 (13.5Mbps)	03	2422	36.40	36.40
	06	2437	36.60	36.40
	09	2452	36.40	36.40

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 01



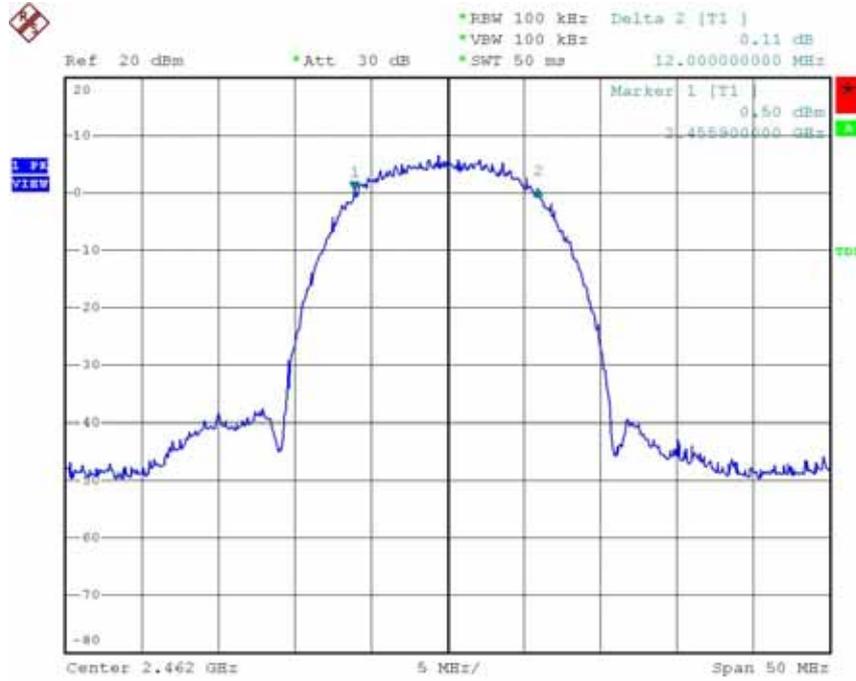
Date: 8.AUG.2008 10:58:44

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 06



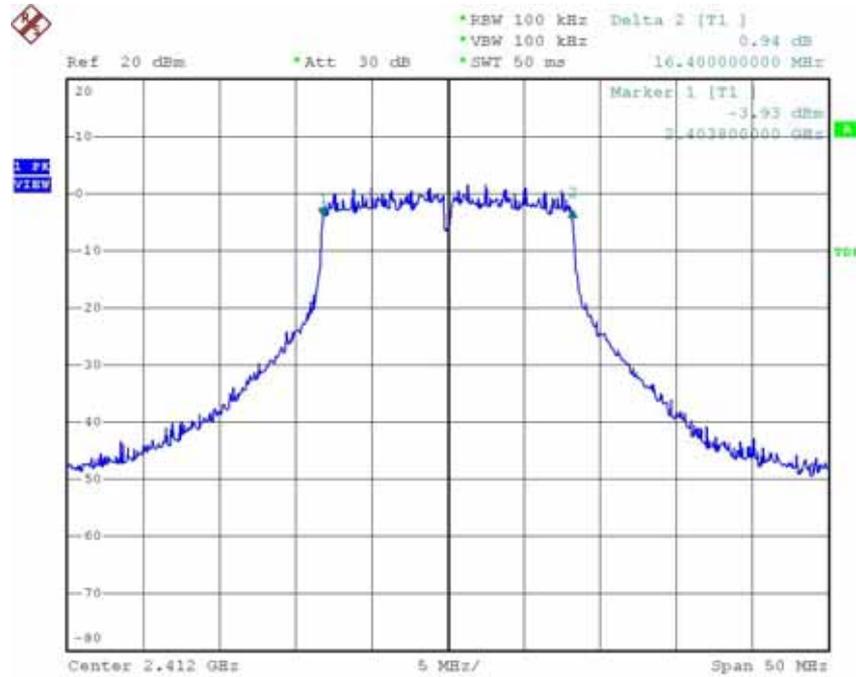
Date: 8.AUG.2008 10:59:42

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 11



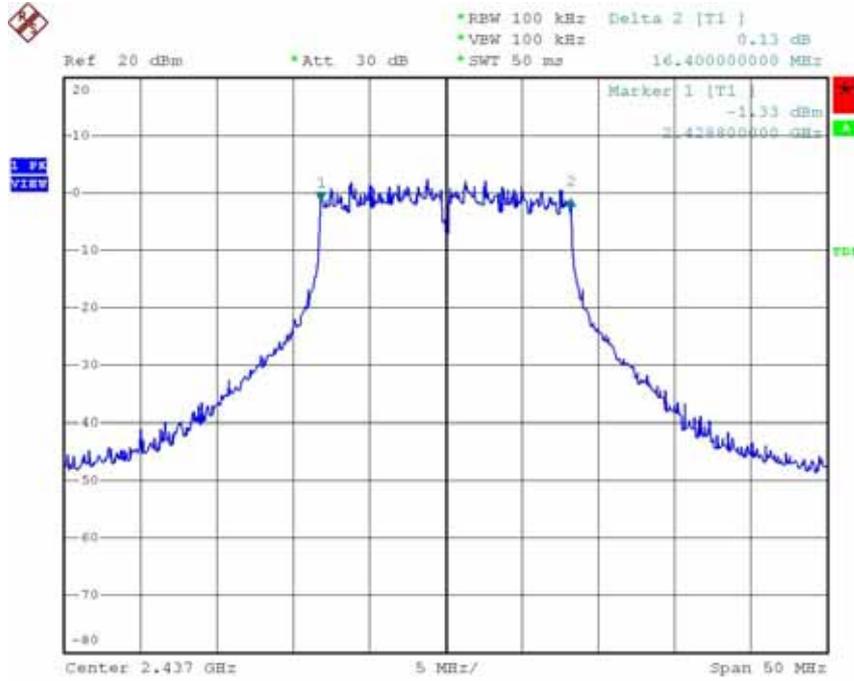
Date: 8.AUG.2008 11:00:41

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 01



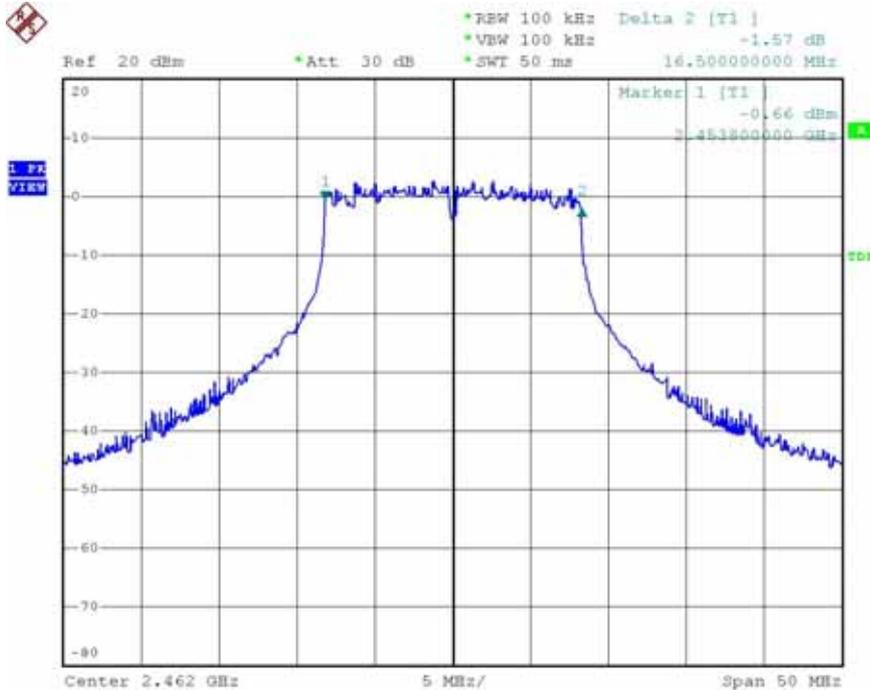
Date: 8.AUG.2008 11:05:27

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 06



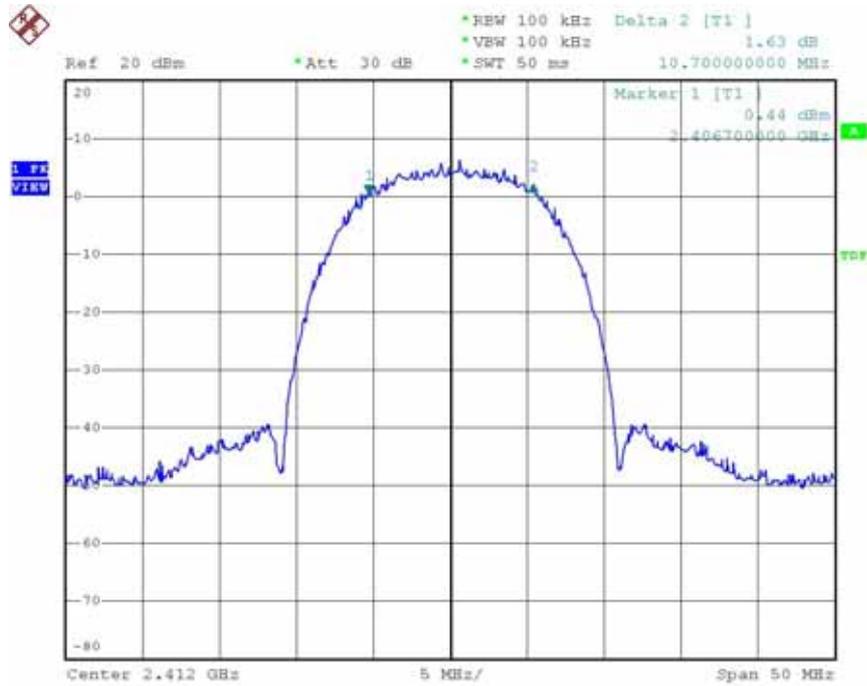
Date: 8.AUG.2008 11:04:28

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 11



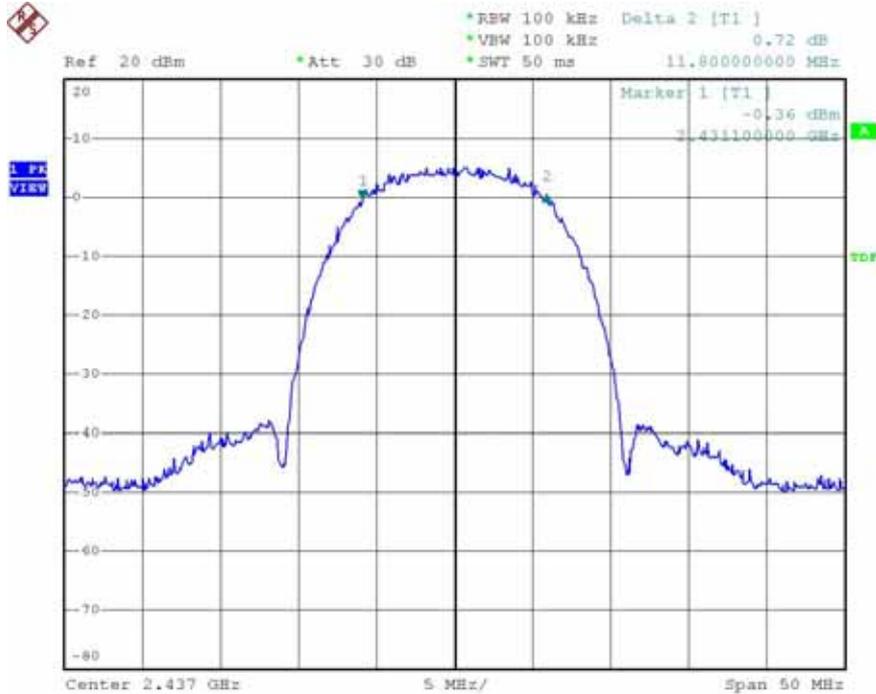
Date: 8.AUG.2008 11:03:19

Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 01



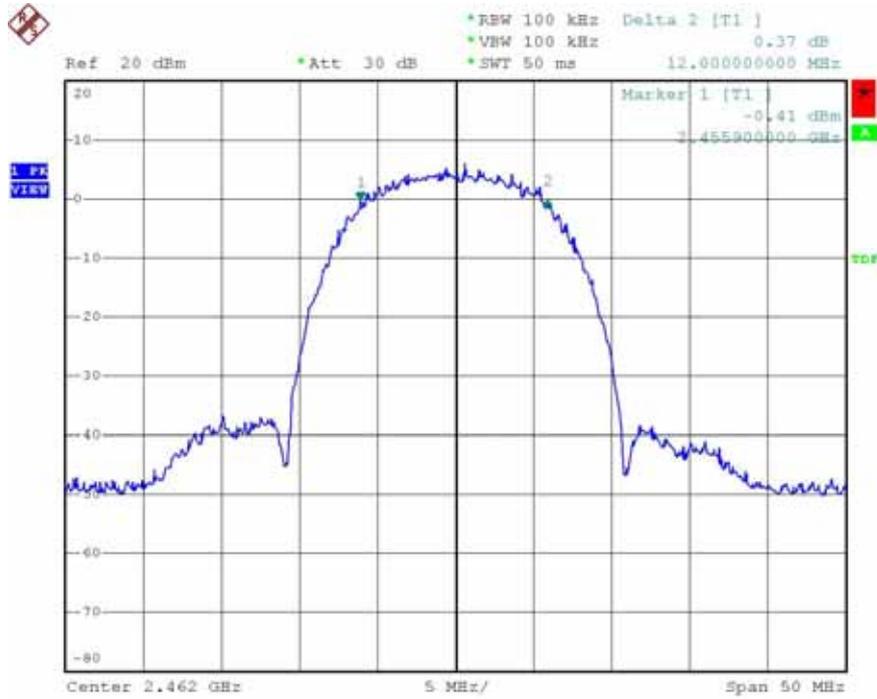
Date: 8.AUG.2008 13:38:06

Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 06



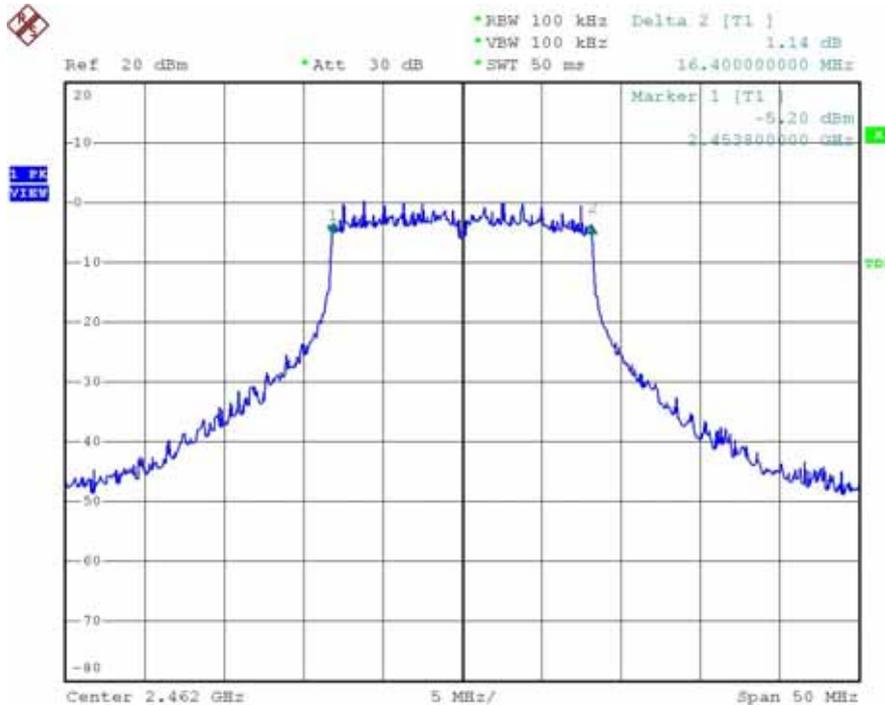
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Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 11



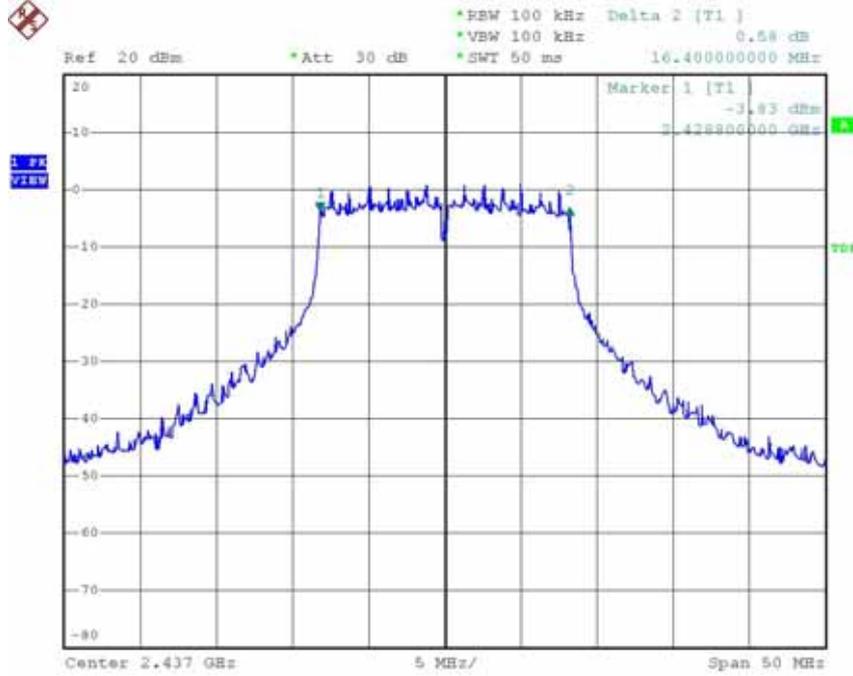
Date: 8.AUG.2008 13:40:24

Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 01



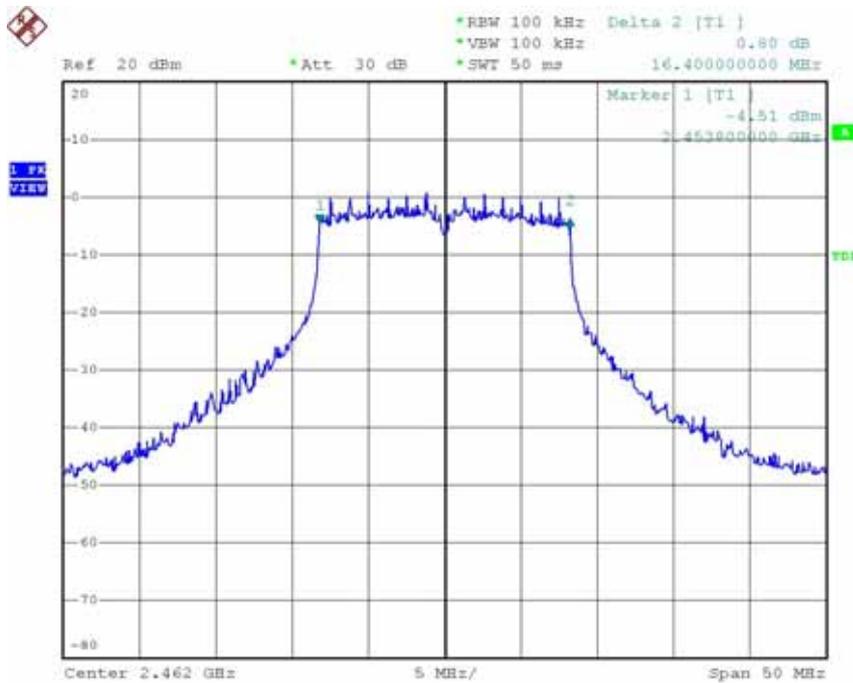
Date: 8.AUG.2008 13:41:54

Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 06



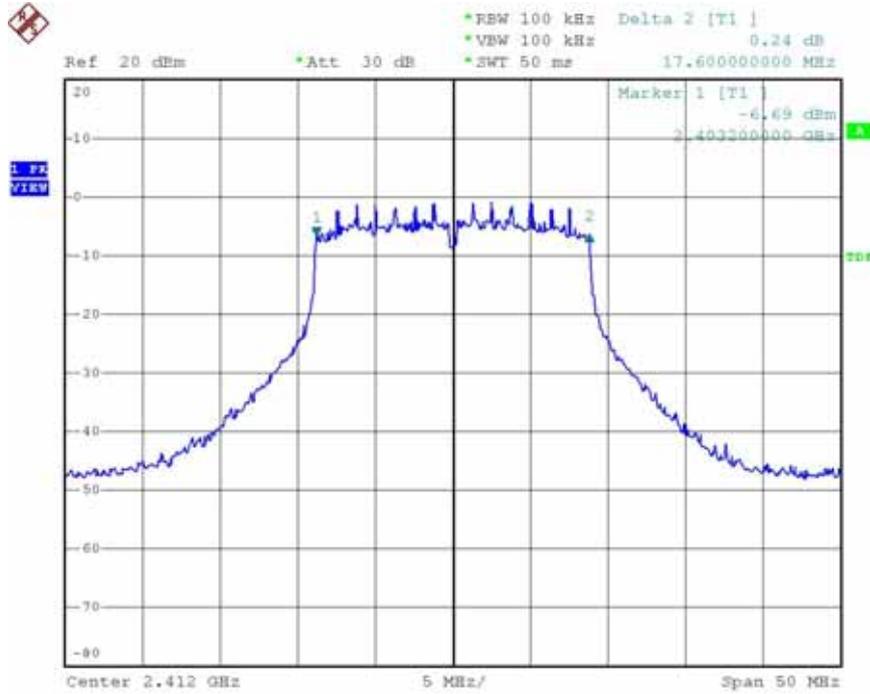
Date: 8.AUG.2008 13:43:48

Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 11



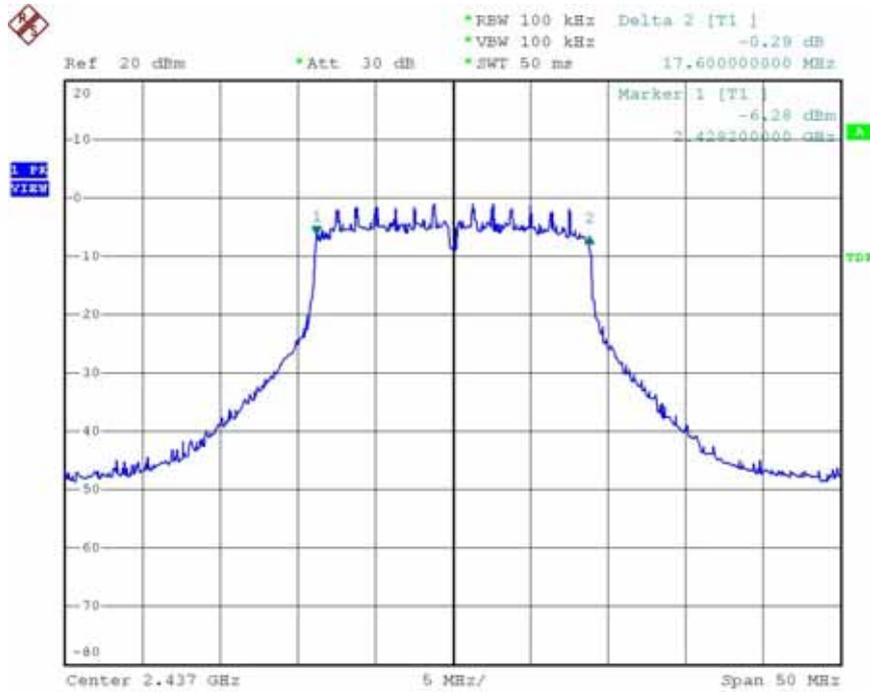
Date: 8.AUG.2008 13:44:29

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 01



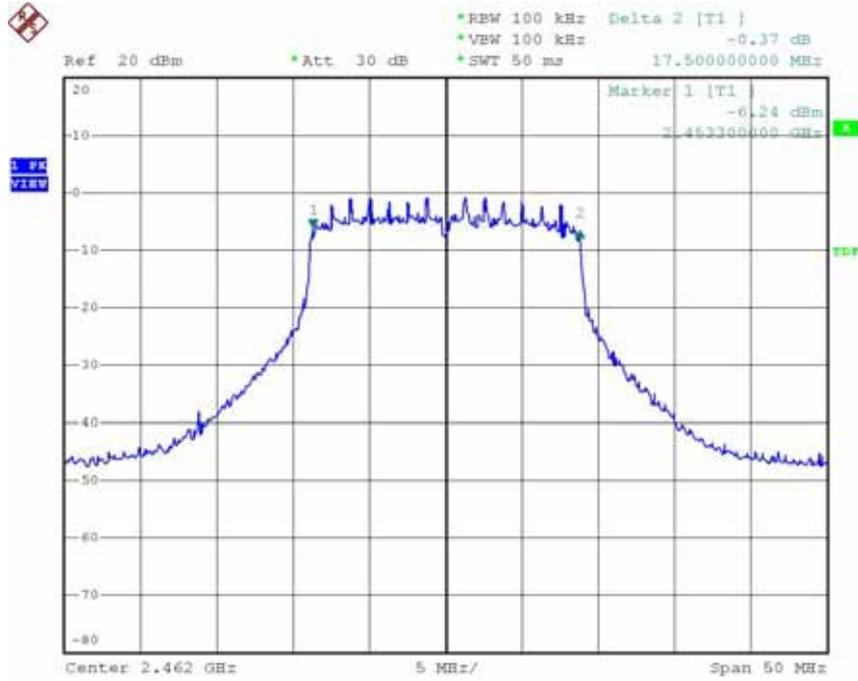
Date: 8.AUG.2008 14:37:39

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 06



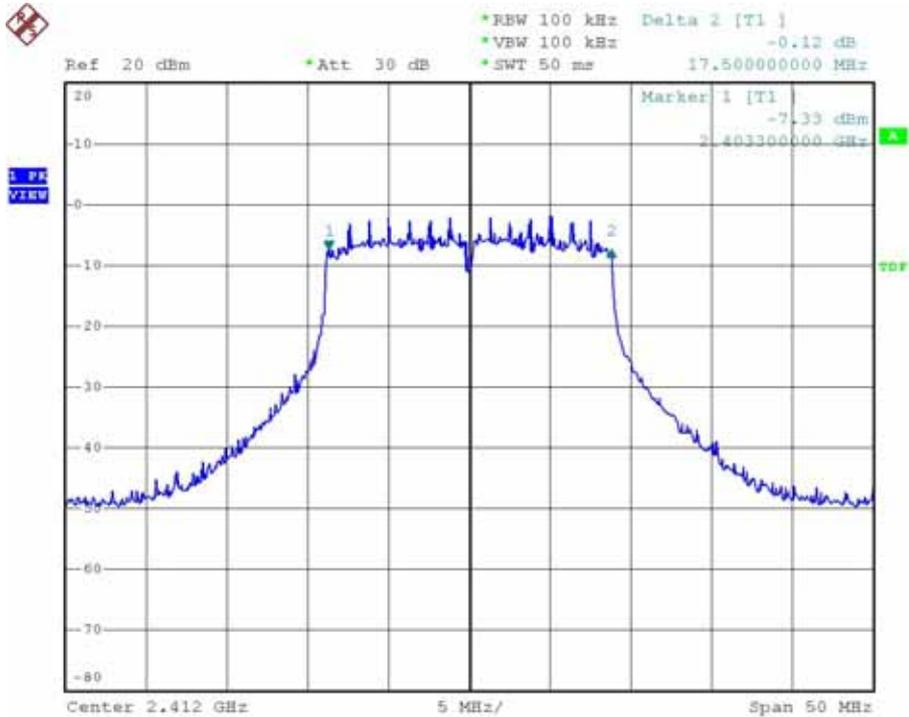
Date: 8.AUG.2008 14:43:57

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
Channel: 11



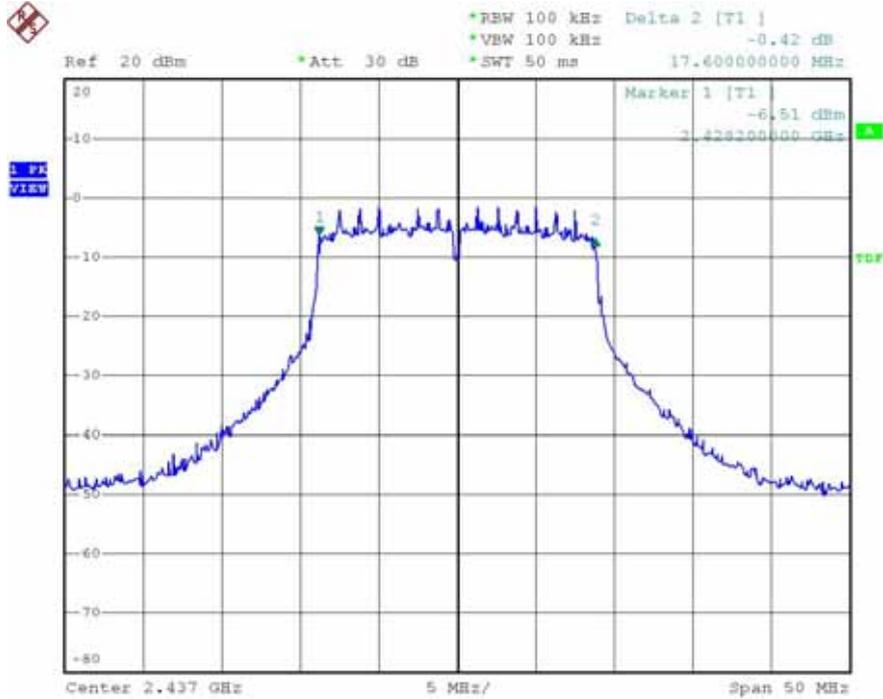
Date: 8.AUG.2008 14:48:09

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
Channel: 01



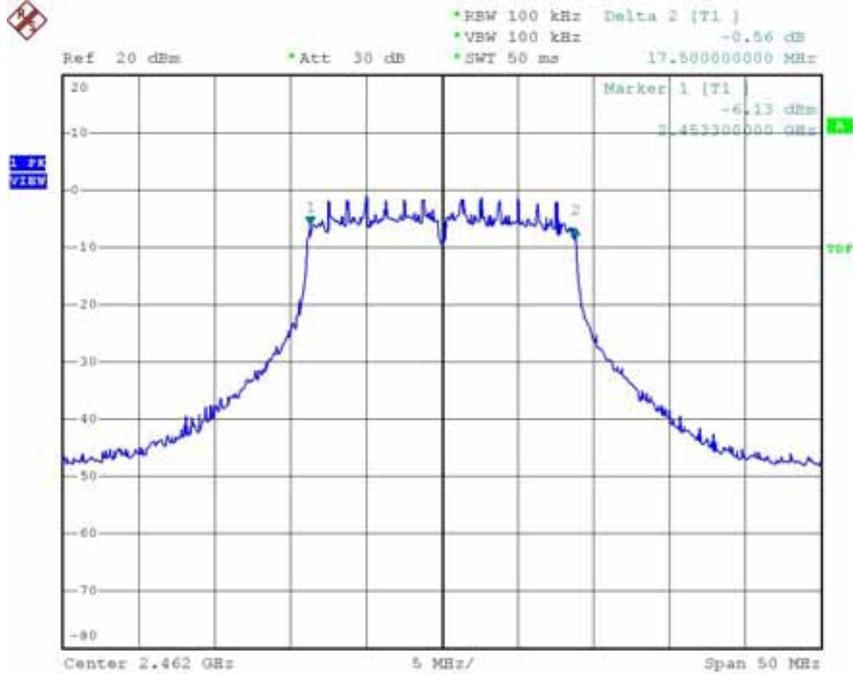
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Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 06



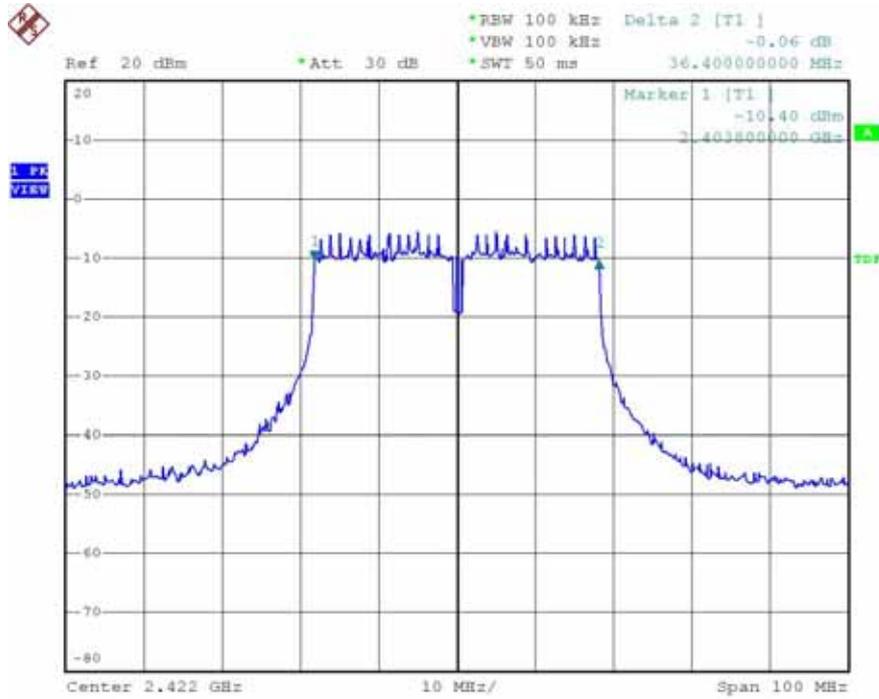
Date: 8.AUG.2008 14:41:26

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 11



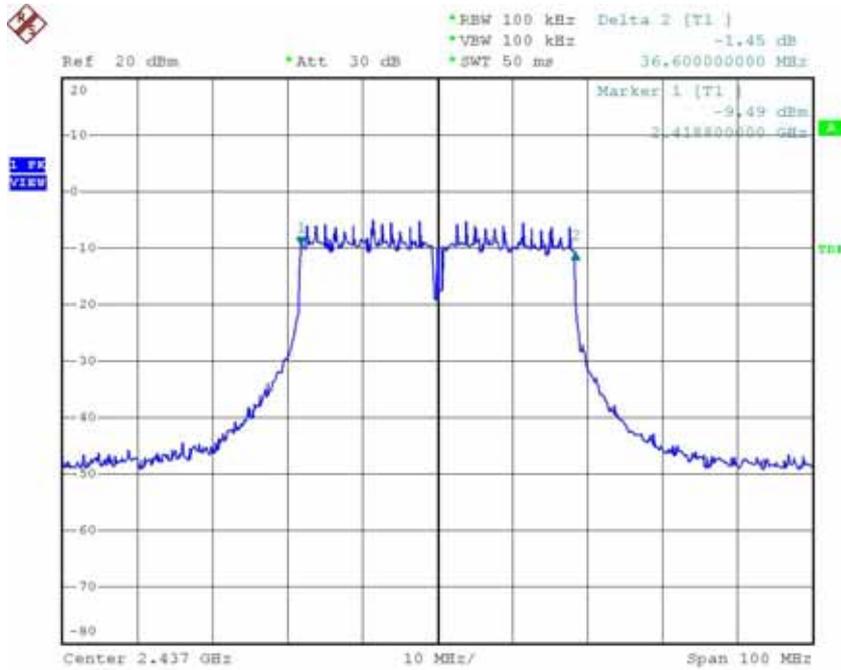
Date: 8.AUG.2008 14:51:16

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 03



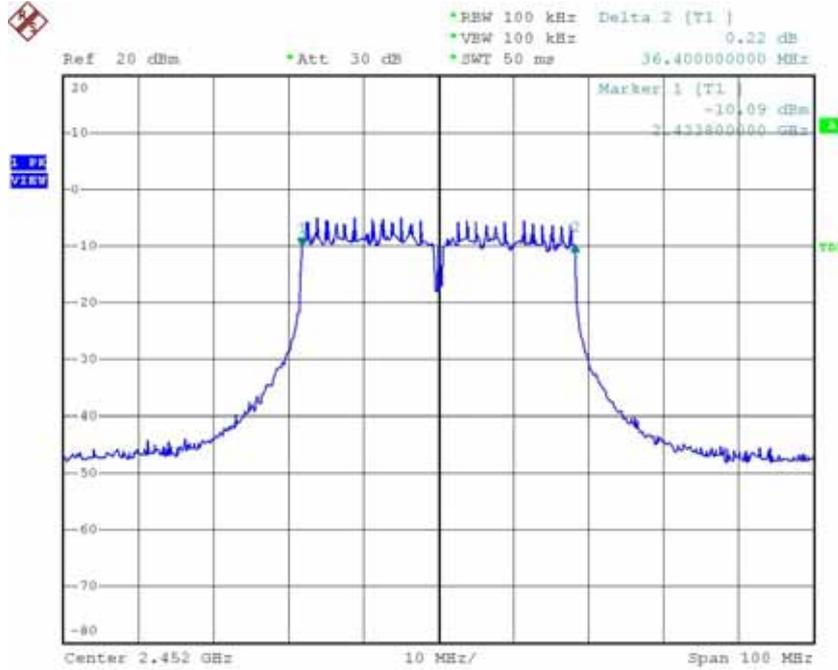
Date: 8.AUG.2008 14:29:01

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 06



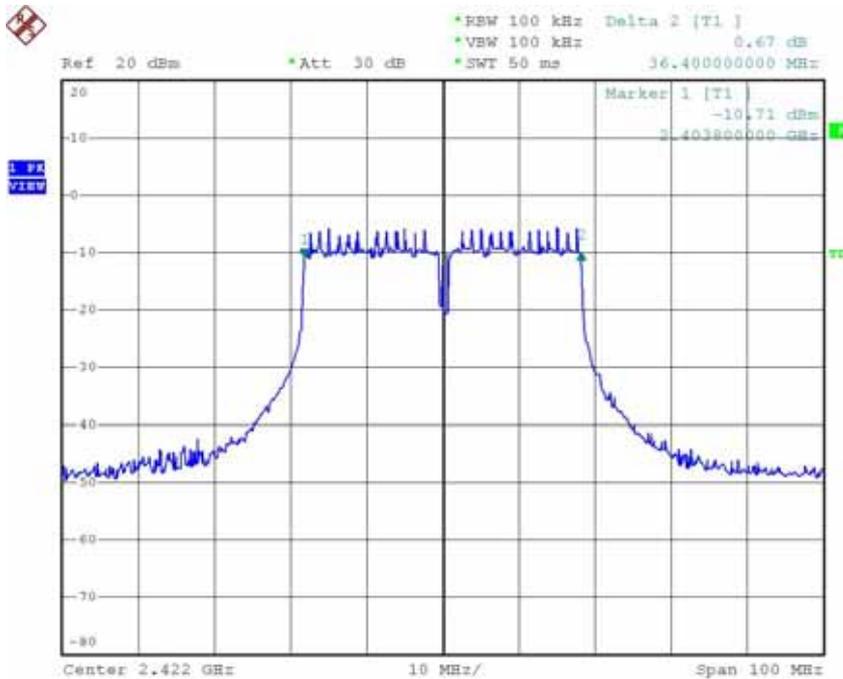
Date: 8.AUG.2008 14:30:42

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 09



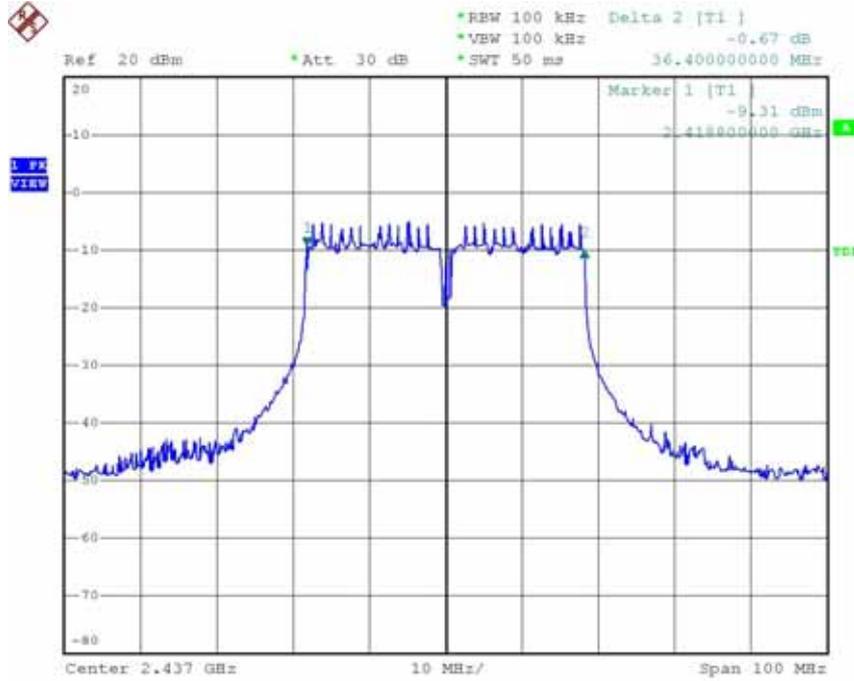
Date: 8.AUG.2008 14:32:39

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
 Channel: 03



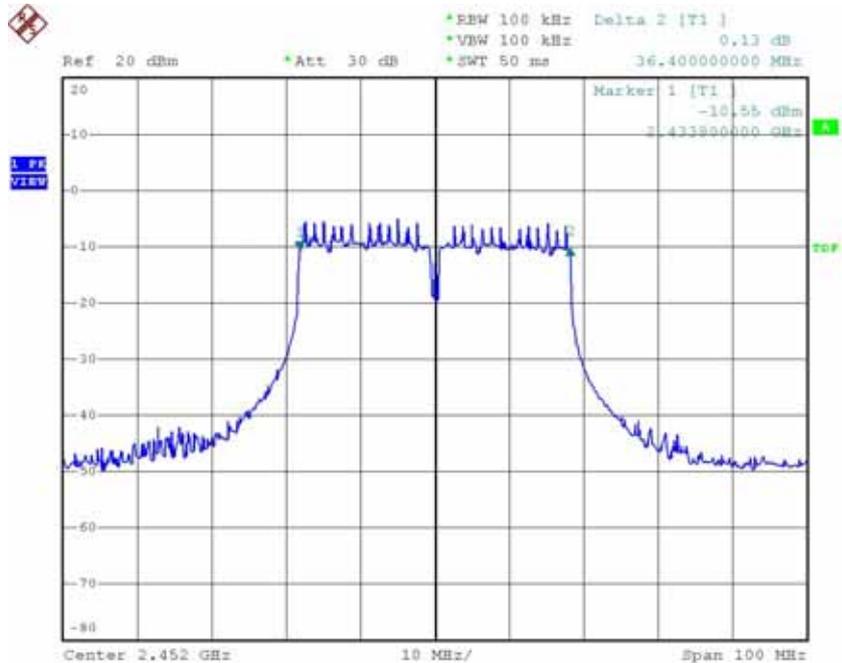
Date: 8.AUG.2008 14:26:51

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
Channel: 06



Date: 8.AUG.2008 14:24:21

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
Channel: 09



Date: 8.AUG.2008 14:22:14

7. Maximum Peak Output Power

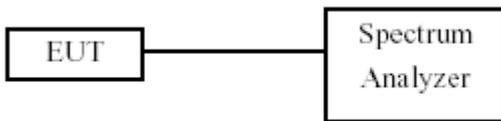
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedures

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

7.3 Test Setup Layout



7.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21

7.5 Test Result and Data

Test Date: Aug. 08, 2008

Temperature: 20

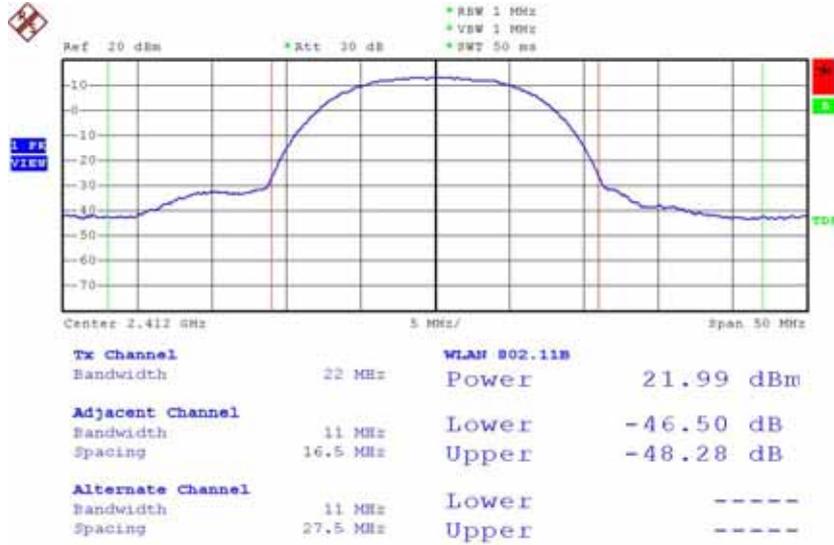
Atmospheric pressure: 1008 hPa

Humidity: 60%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)	
			ANT R	ANT L	ANT R	ANT L
802.11b (11Mbps)	01	2412	21.99	22.03	158.10	159.60
	06	2437	22.20	22.09	166.00	161.80
	11	2462	22.45	22.10	175.80	162.20
802.11g (6Mbps)	01	2412	21.11	21.40	129.10	138.00
	06	2437	21.37	21.41	137.10	138.40
	11	2462	21.13	21.00	129.70	125.90

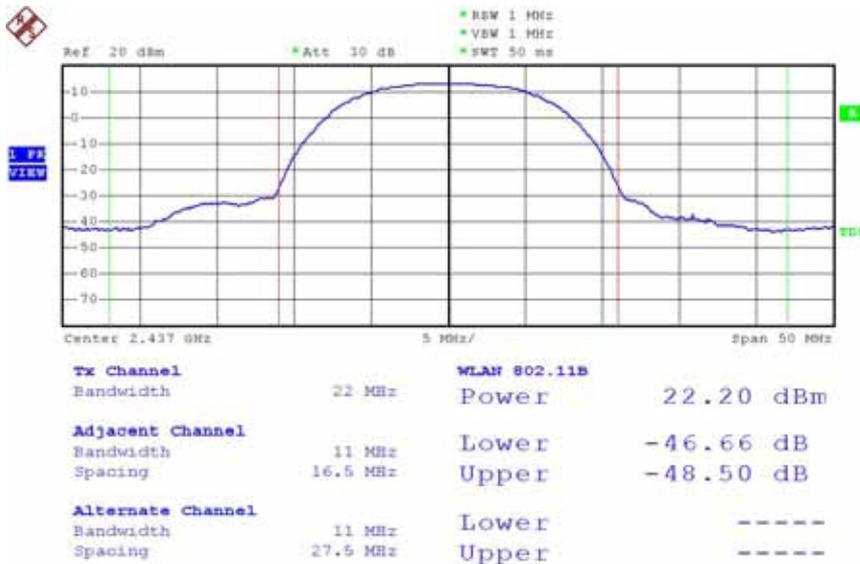
Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			ANT R	ANT L	R + L	R + L
802.11n HT20 (6.5Mbps)	01	2412	18.04	17.85	20.96	124.63
	06	2437	18.31	18.16	21.25	133.23
	11	2462	18.26	17.99	21.14	129.94
802.11n HT40 (13.5Mbps)	03	2422	16.95	17.23	20.10	102.39
	06	2437	17.07	17.03	20.06	101.40
	09	2452	17.16	16.82	20.00	100.08

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 01



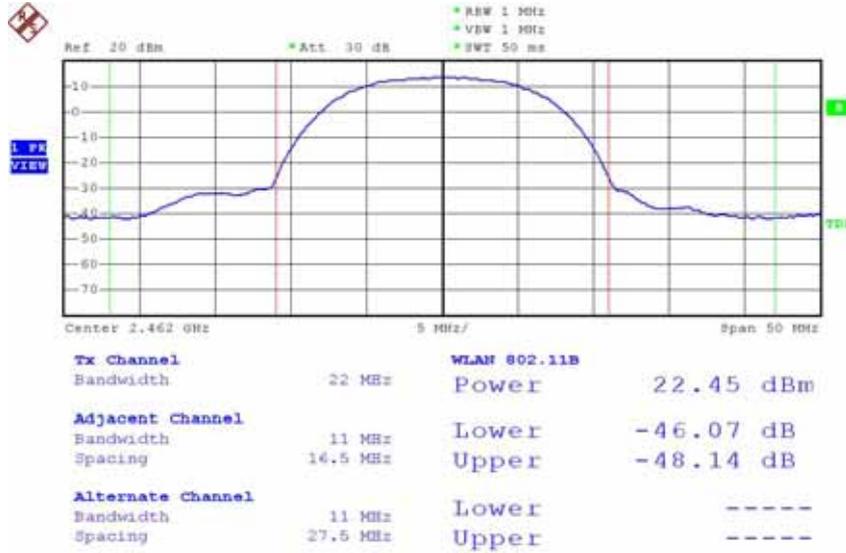
Date: 8.AUG.2008 10:57:58

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 06



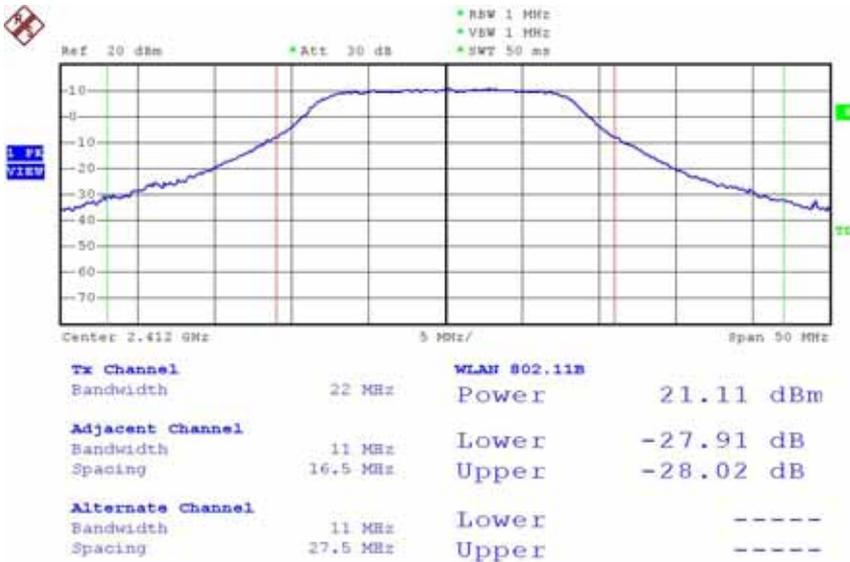
Date: 8.AUG.2008 10:57:05

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 11



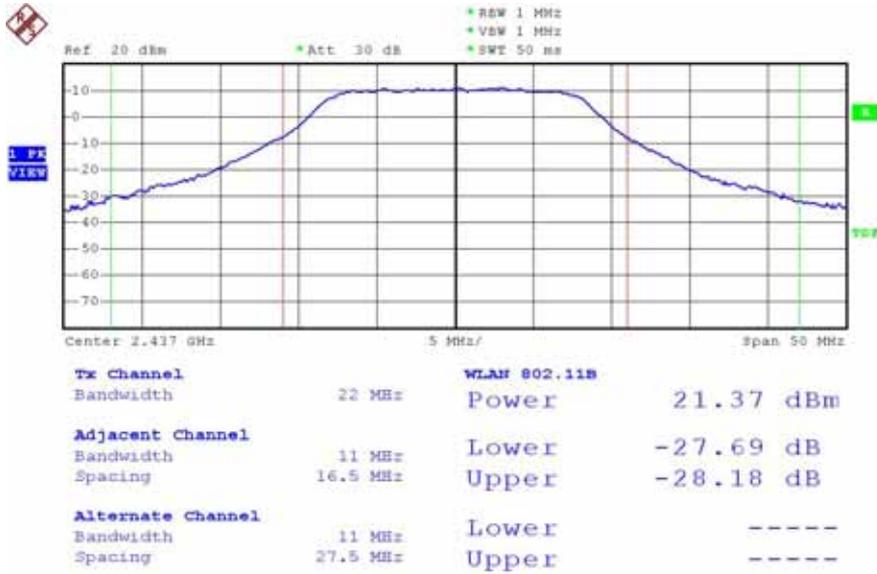
Date: 8.AUG.2008 10:56:28

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 01



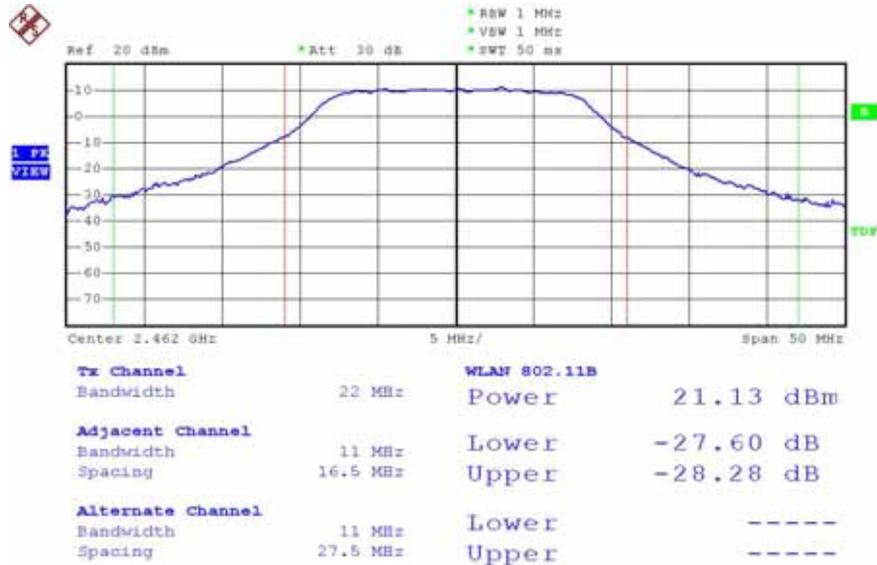
Date: 8.AUG.2008 10:28:56

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 06



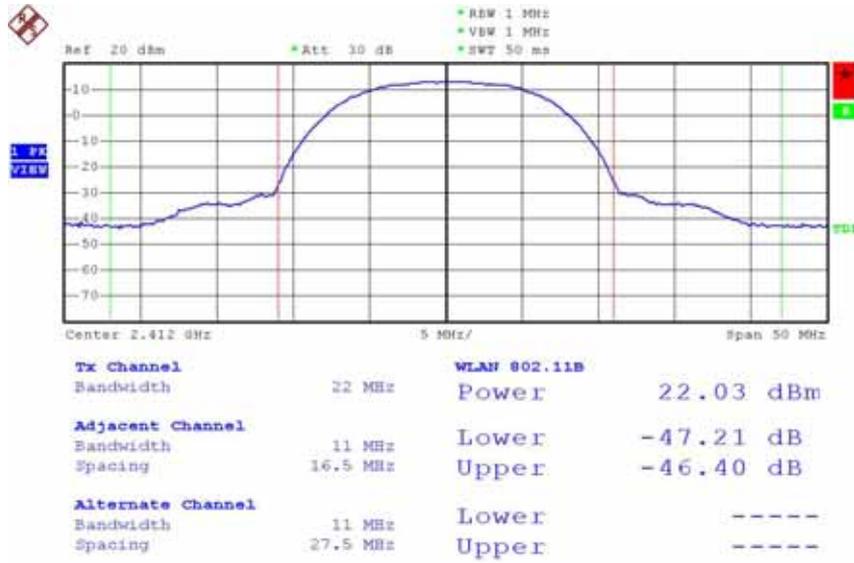
Date: 8.AUG.2008 10:30:58

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 11



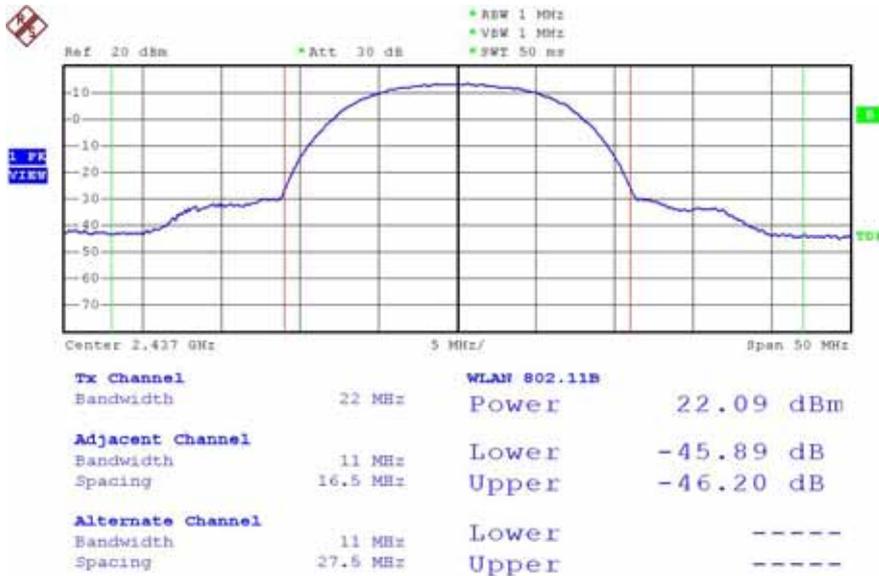
Date: 8.AUG.2008 10:32:56

Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 01



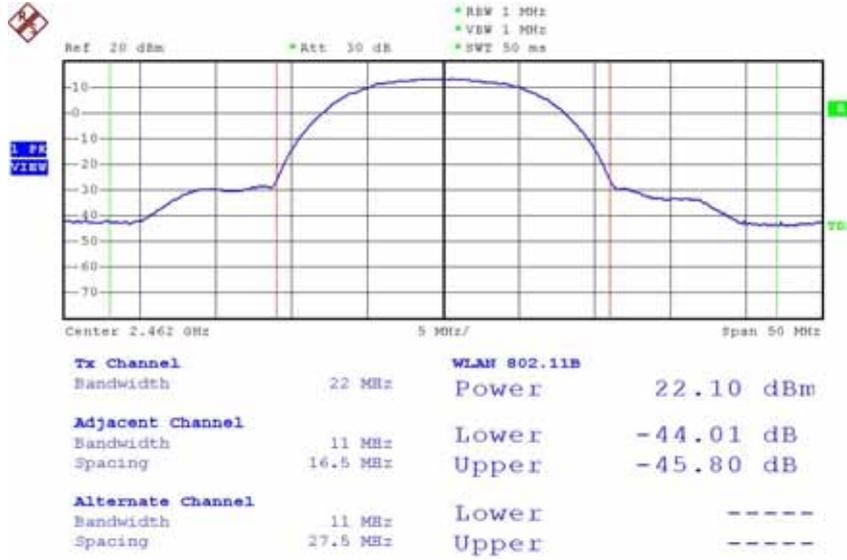
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Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 06



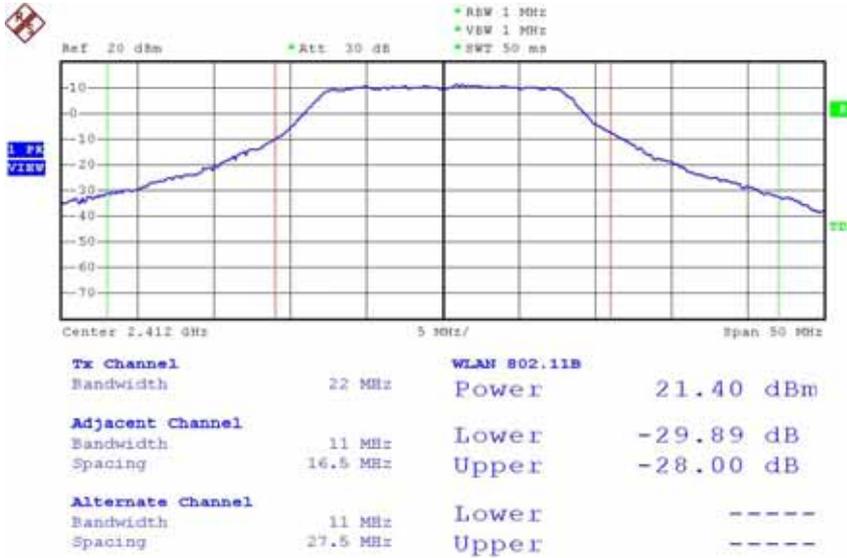
Date: 8.AUG.2008 13:36:12

Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 11



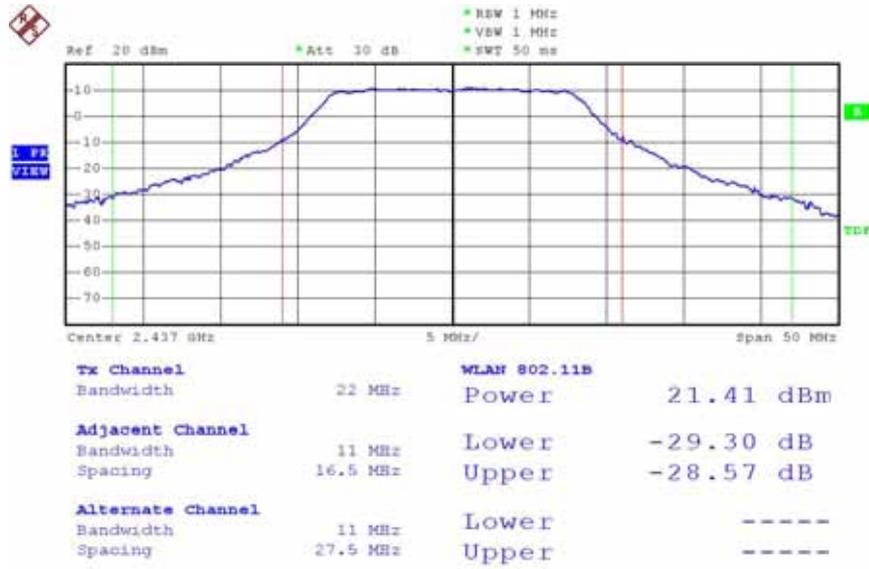
Date: 8.AUG.2008 13:35:44

Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 01



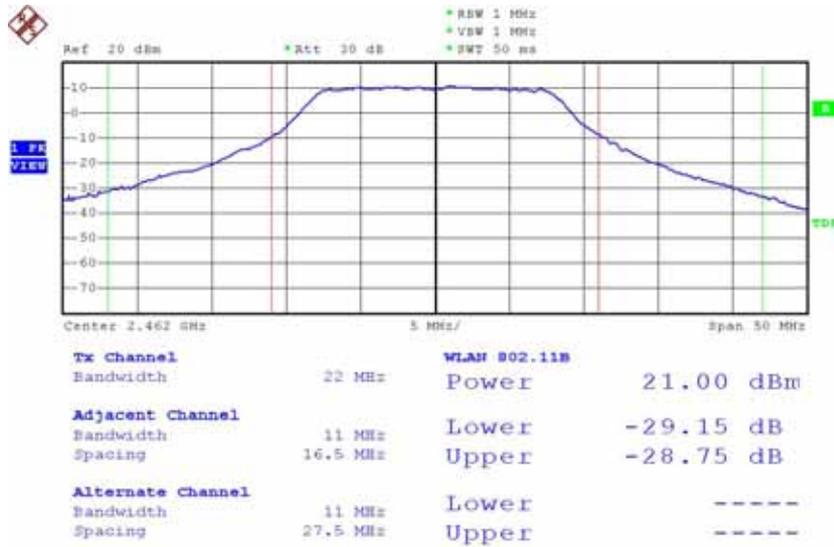
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Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 06



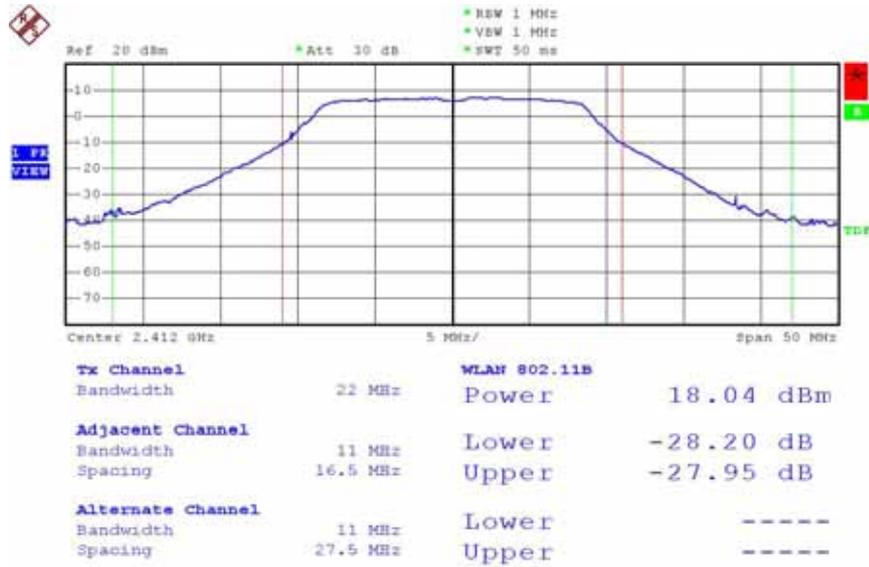
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Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 11



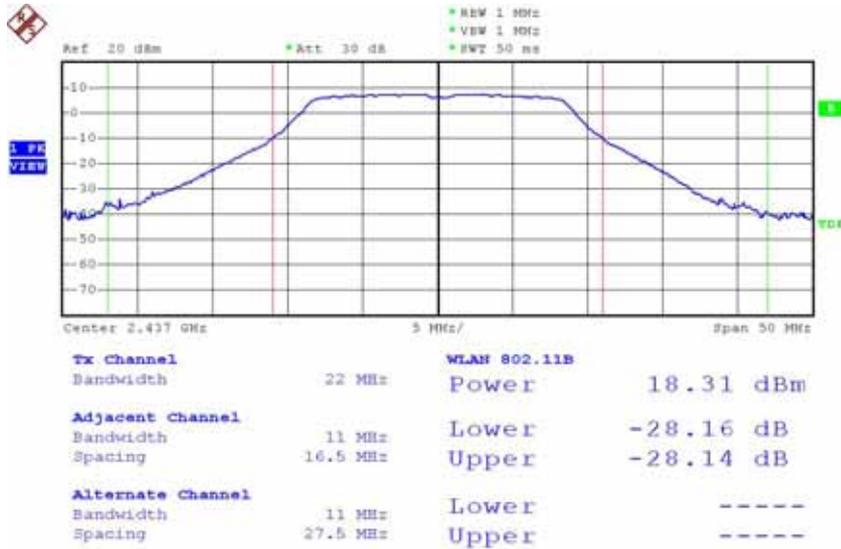
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Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 01



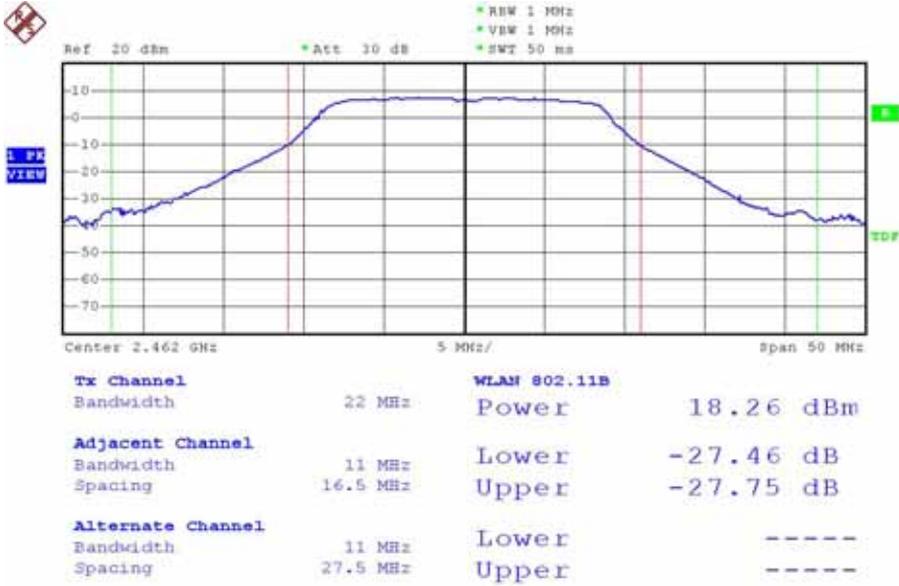
Date: 8.AUG.2008 13:58:25

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 06



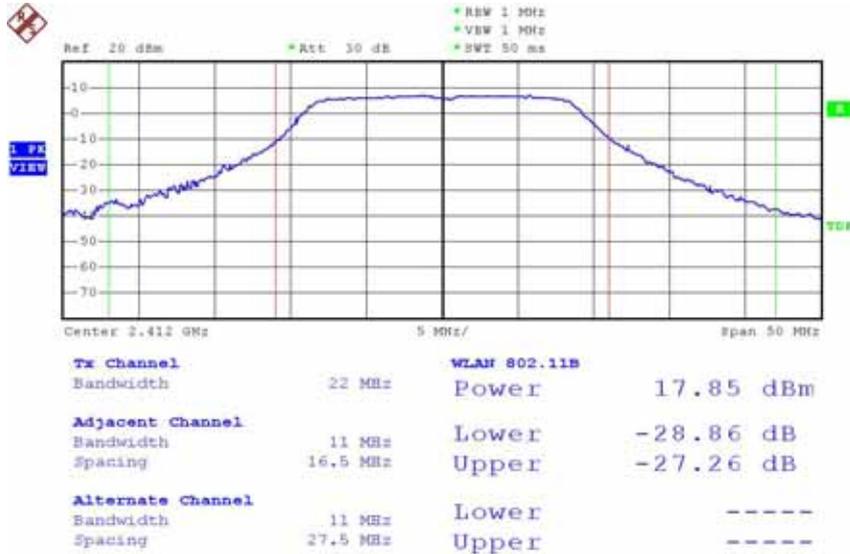
Date: 8.AUG.2008 13:56:36

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 11



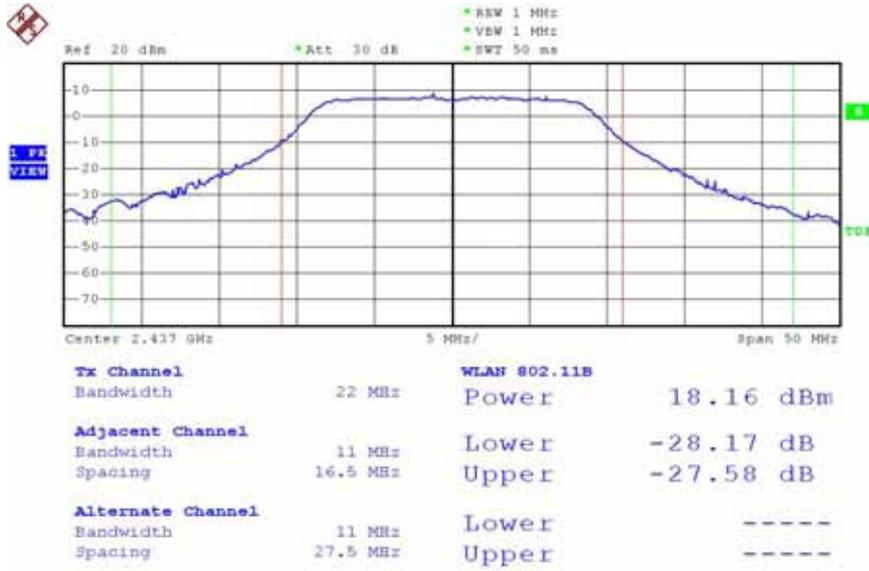
Date: 8.AUG.2008 13:53:12

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 01



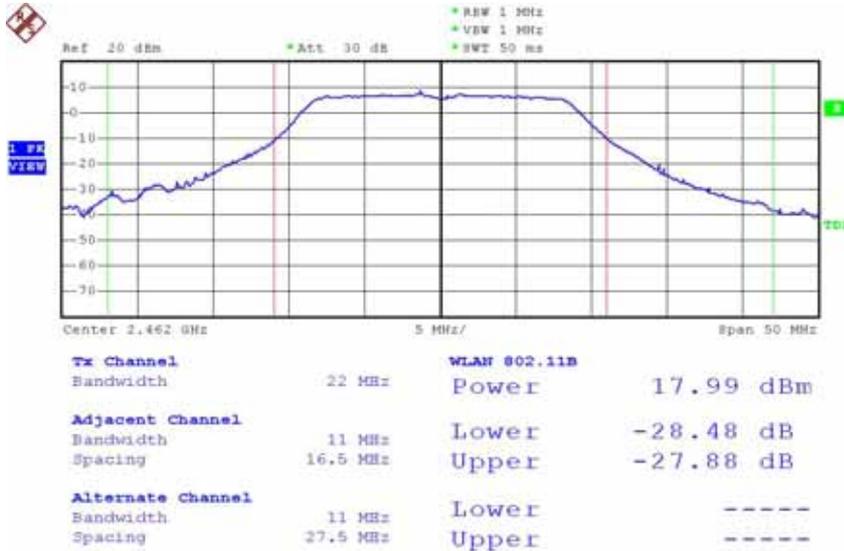
Date: 8.AUG.2008 14:04:08

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 06



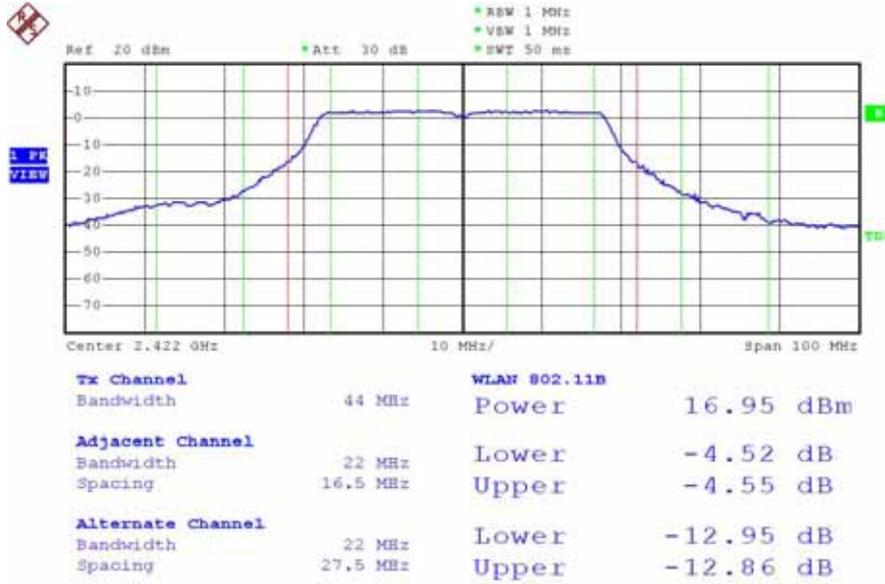
Date: 8.AUG.2008 13:56:16

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 11



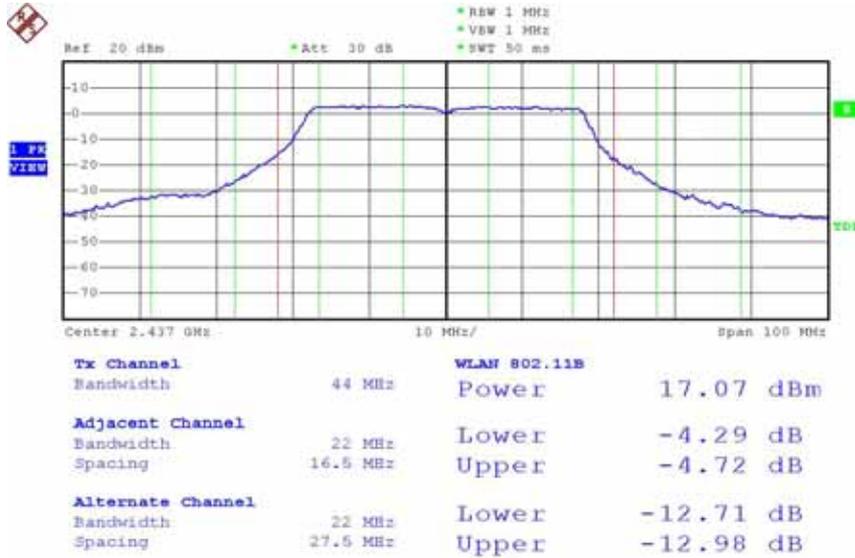
Date: 8.AUG.2008 13:54:14

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 03



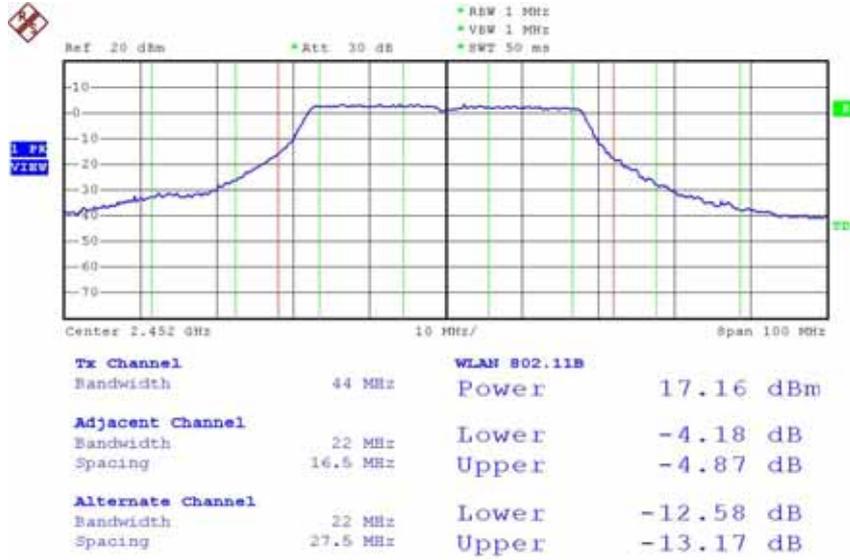
Date: 8.AUG.2008 14:07:37

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 06



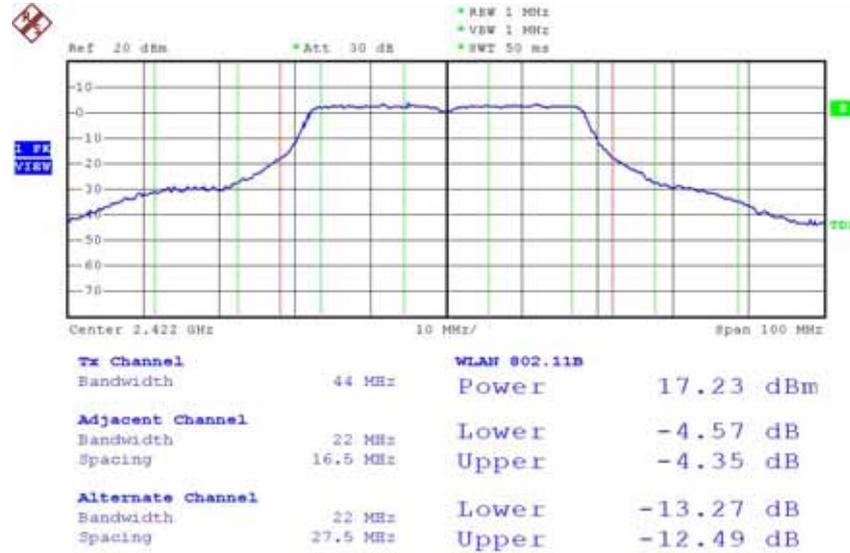
Date: 8.AUG.2008 14:13:40

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 09



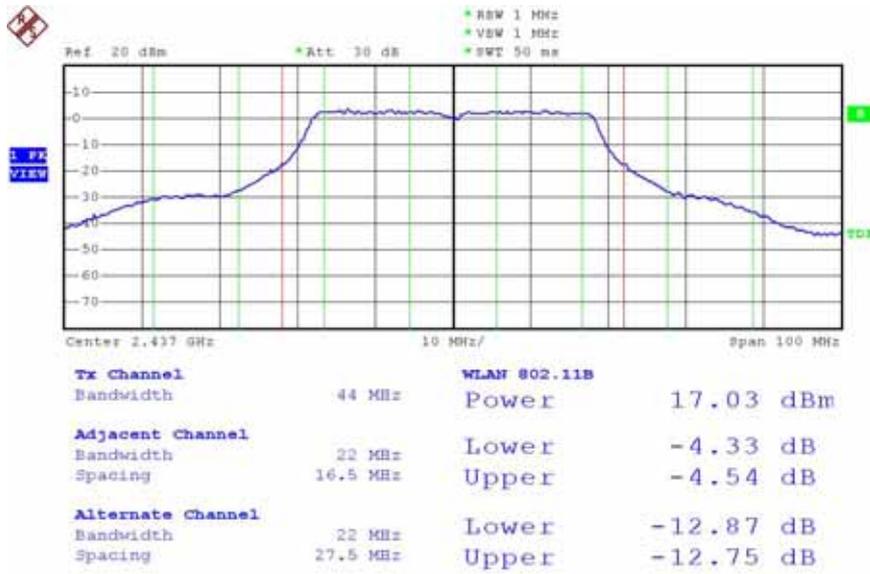
Date: 8.AUG.2008 14:18:29

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
 Channel: 03



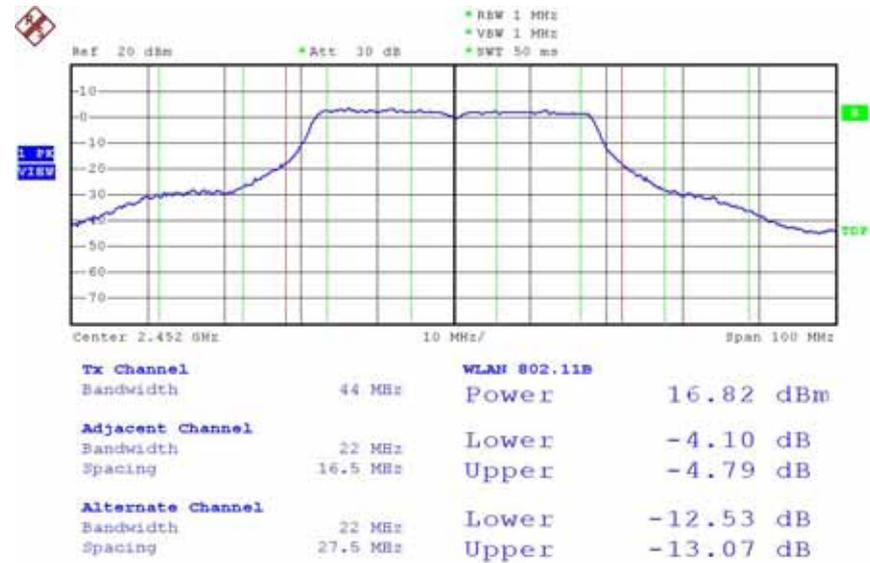
Date: 8.AUG.2008 14:09:27

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
 Channel: 06



Date: 8.AUG.2008 14:11:32

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
 Channel: 09



Date: 8.AUG.2008 14:21:12

8. Band Edges Measurement

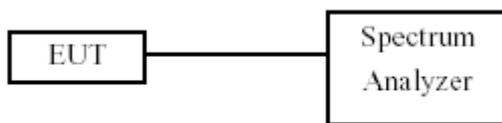
8.1 Test Limit

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

8.2 Test Procedure

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

8.3 Test Setup Layout



8.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21

8.5 Test Result and Data

Test Date: Aug. 08, 2008

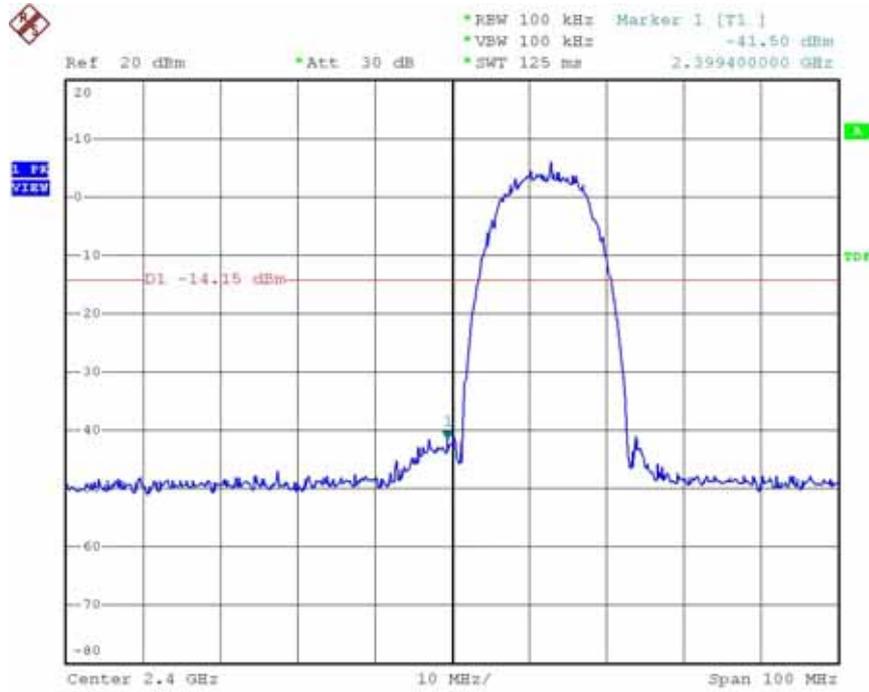
Temperature: 20

Atmospheric pressure: 1008 hPa

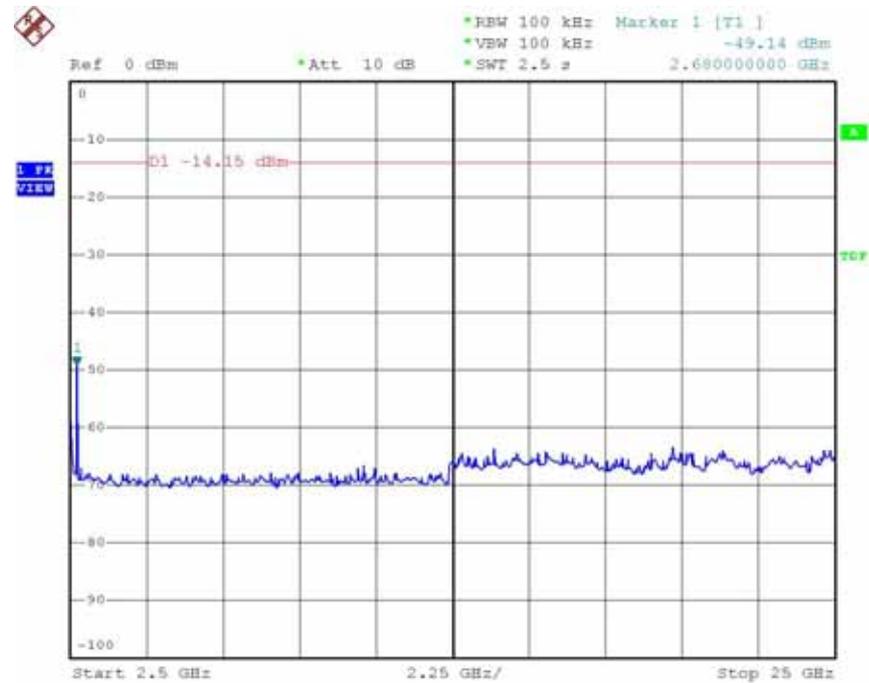
Humidity: 60%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			ANT R	ANT L	ANT R	ANT L
802.11b (11Mbps)	01	2412	2399.40	2399.60	-41.50	-39.48
	11	2462	2487.50	2488.10	-46.79	-46.18
802.11g (6Mbps)	01	2412	2399.80	2399.60	-29.58	-28.89
	11	2462	2485.10	2483.90	-43.25	-45.24
802.11n HT20 (6.5Mbps)	01	2412	2399.80	2399.60	-32.54	-33.63
	11	2462	2486.50	2483.70	-49.23	-53.13
802.11n HT40 (13.5Mbps)	03	2422	2399.20	2399.60	-35.16	-37.00
	09	2452	2484.50	2485.10	-47.06	-46.00

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 01

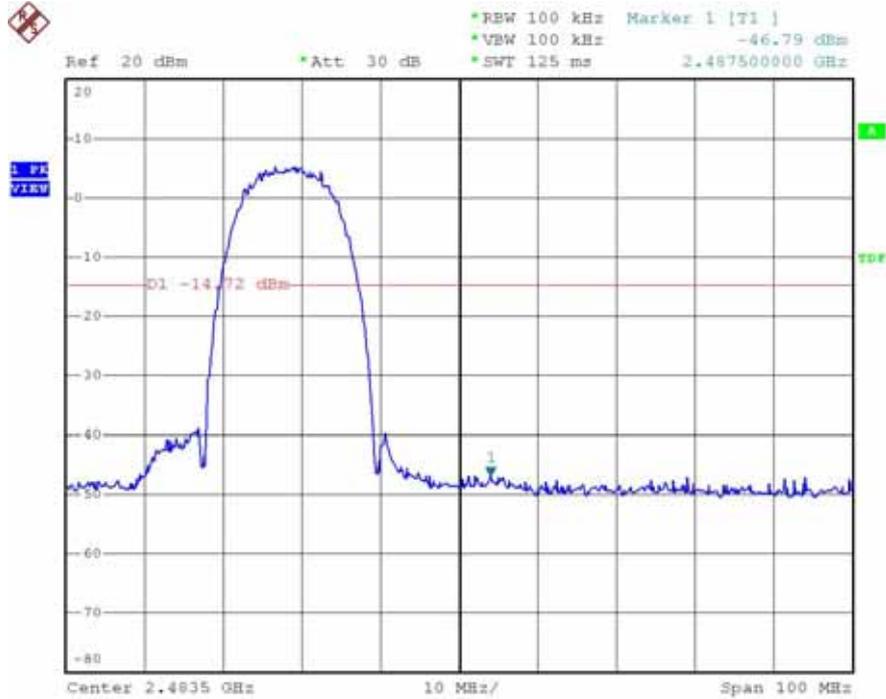


Date: 8.AUG.2008 11:12:21

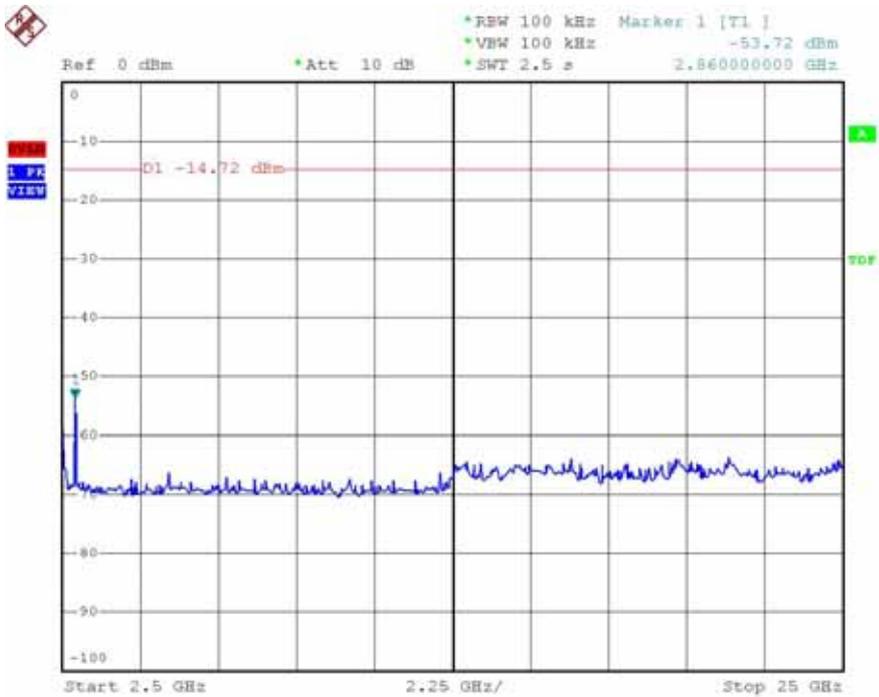


Date: 8.AUG.2008 11:12:53

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 11

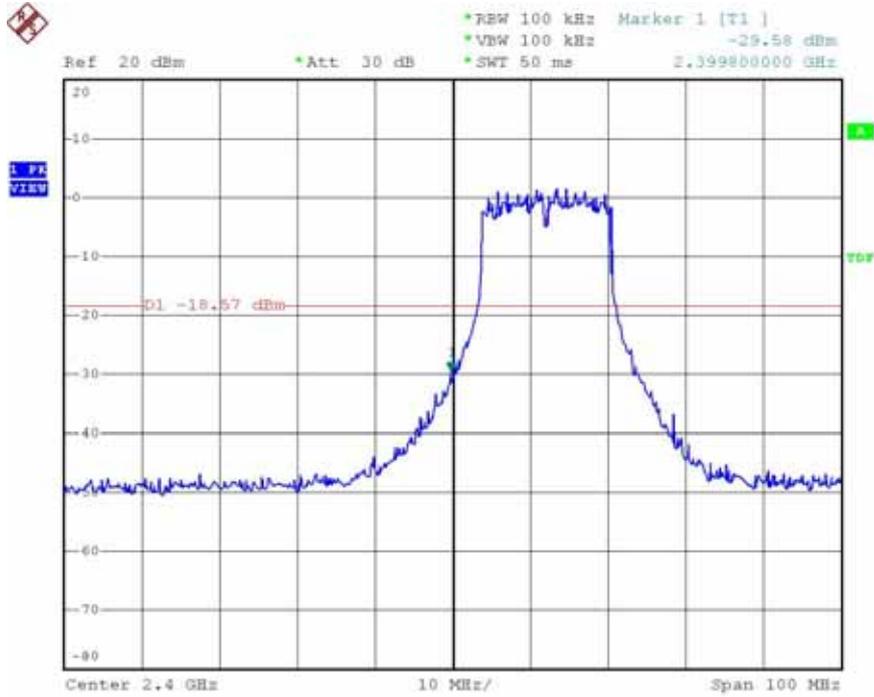


Date: 8.AUG.2008 11:10:37

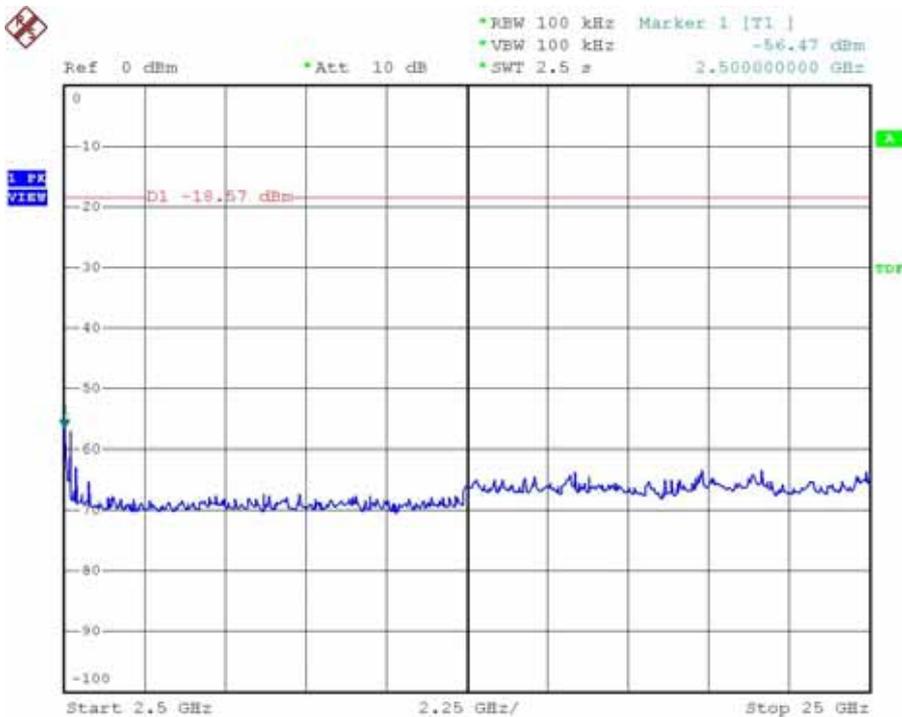


Date: 8.AUG.2008 11:11:05

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 01

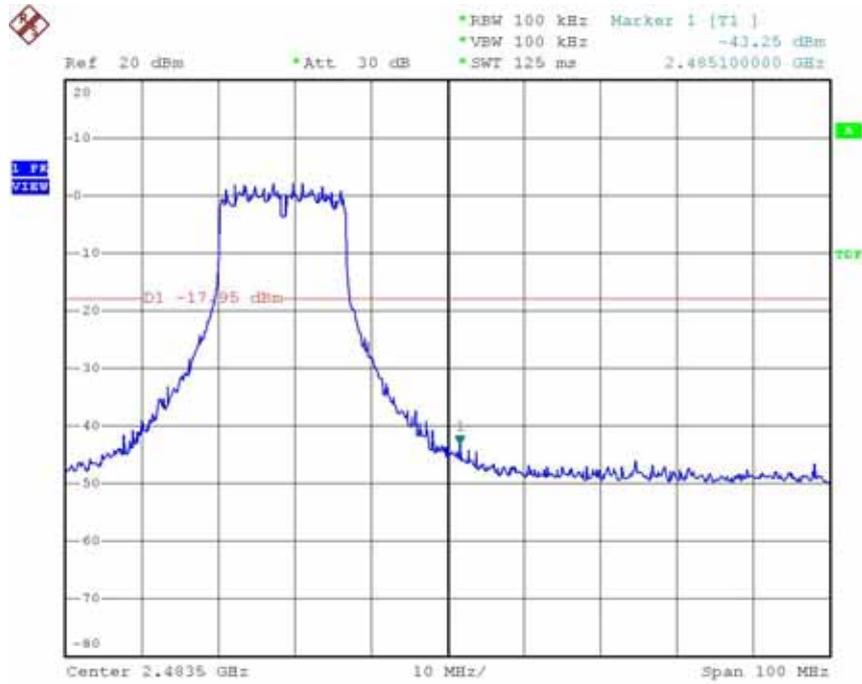


Date: 8.AUG.2008 11:06:38

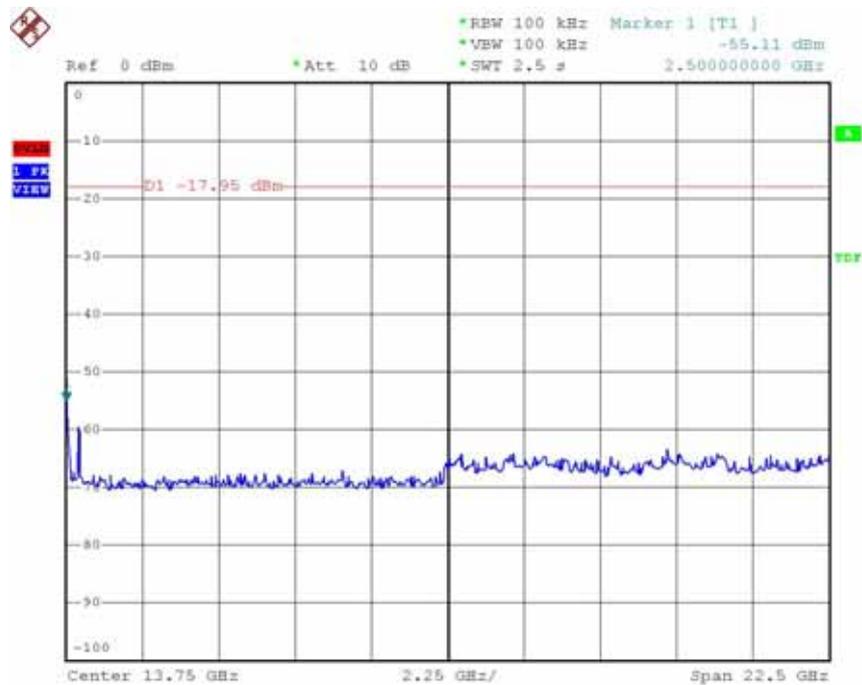


Date: 8.AUG.2008 11:07:22

Modulation Standard: 802.11g (6Mbps), ANT R
 Channel: 11

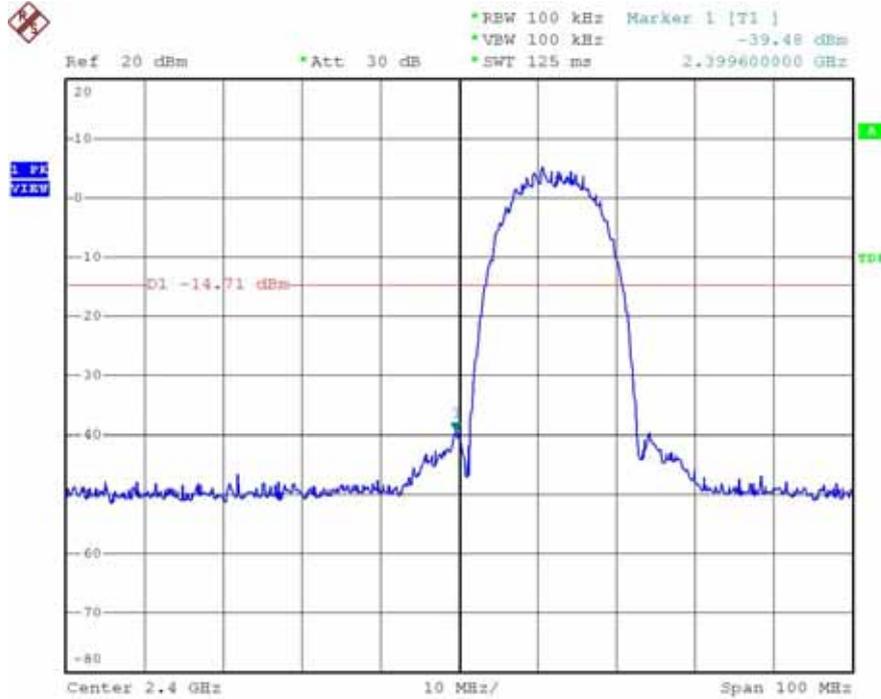


Date: 8.AUG.2008 11:08:39

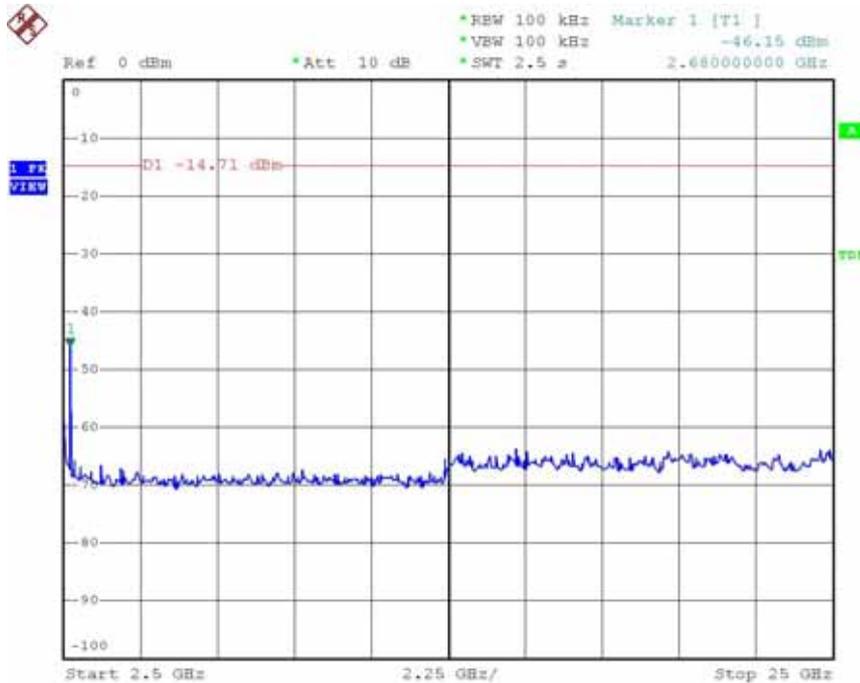


Date: 8.AUG.2008 11:09:11

Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 01

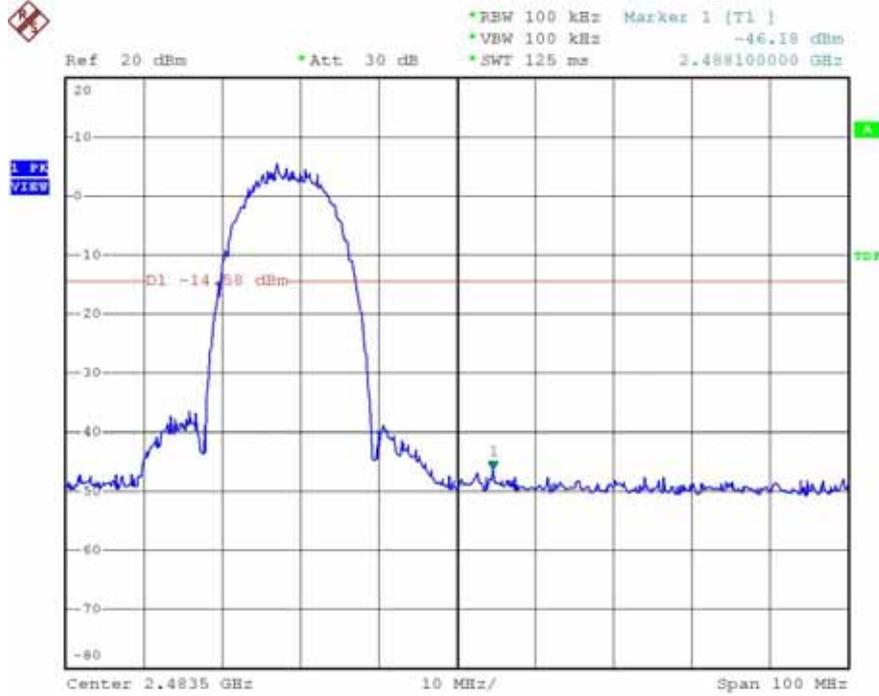


Date: 8.AUG.2008 15:12:55

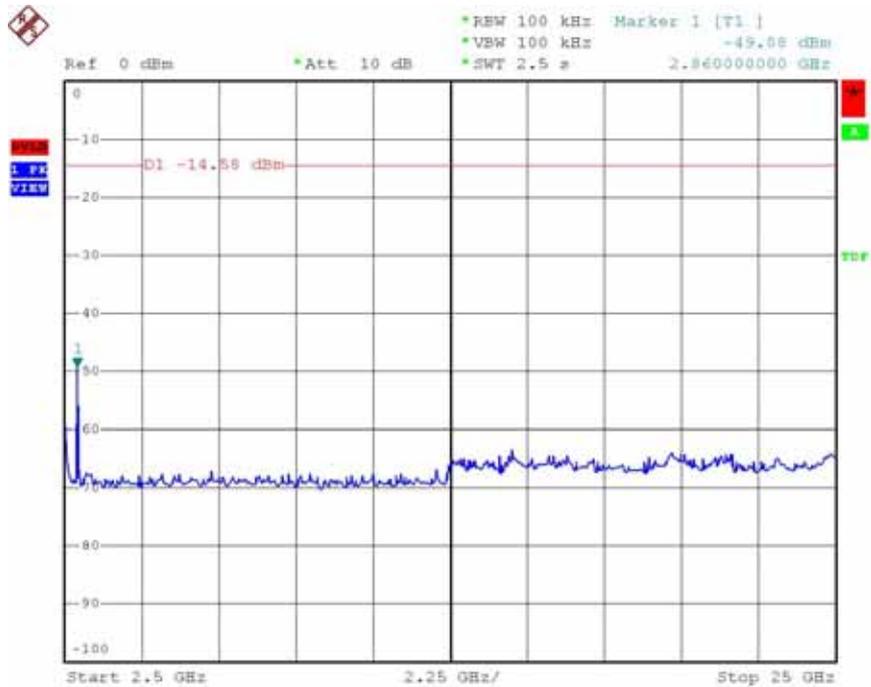


Date: 8.AUG.2008 15:13:25

Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 11

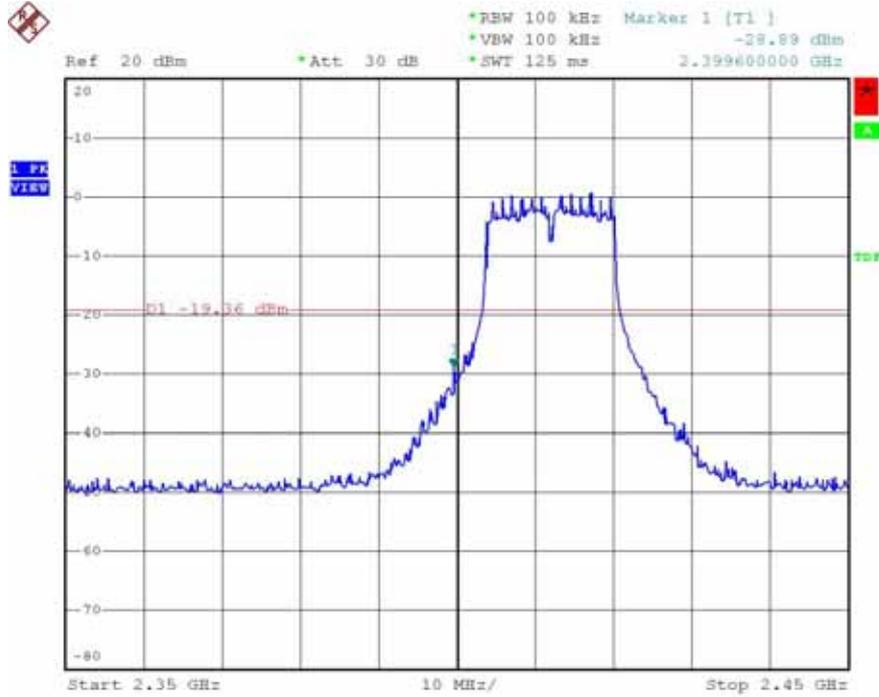


Date: 8.AUG.2008 15:14:16

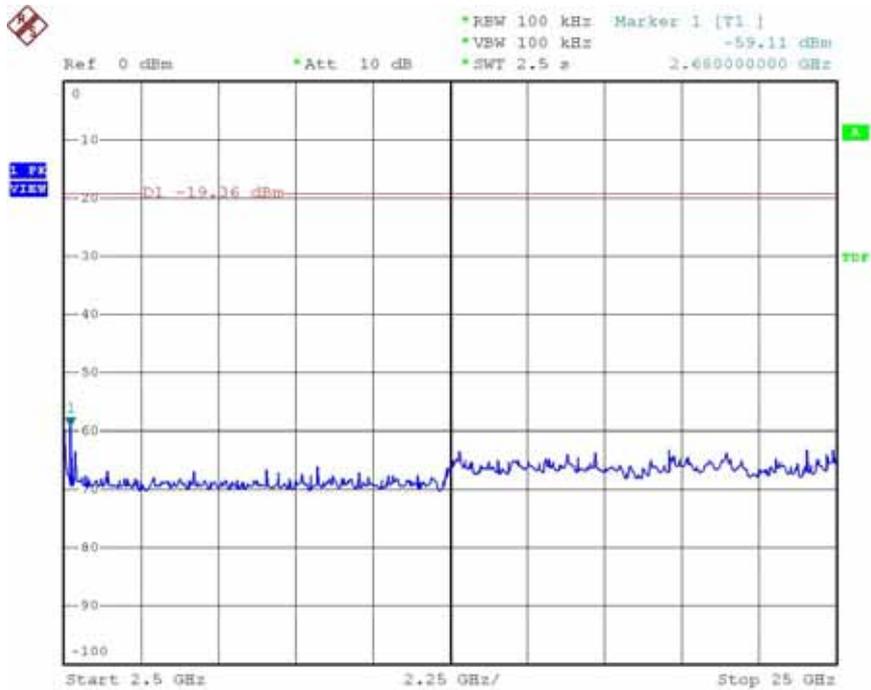


Date: 8.AUG.2008 15:15:46

Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 01

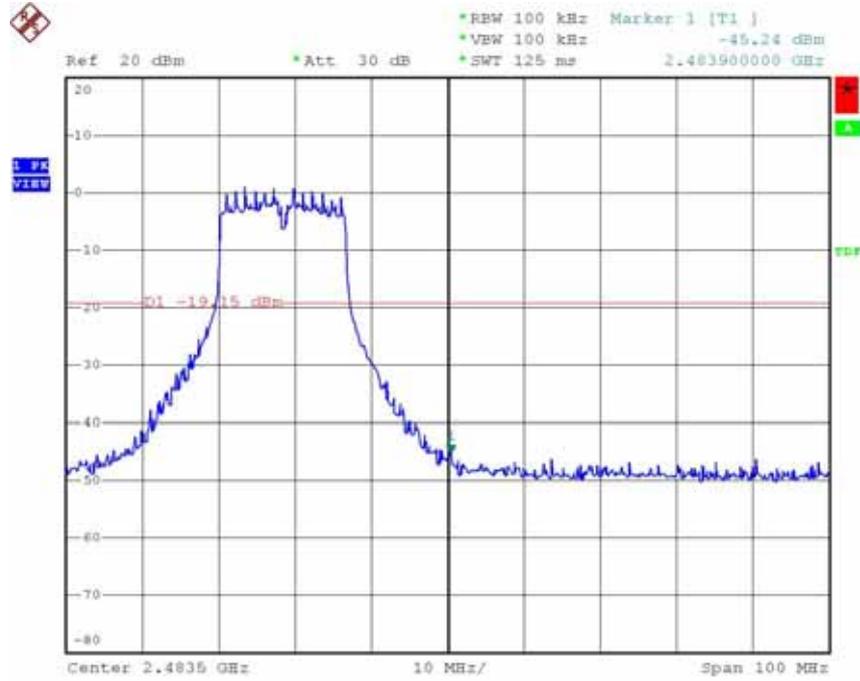


Date: 8.AUG.2008 15:19:59

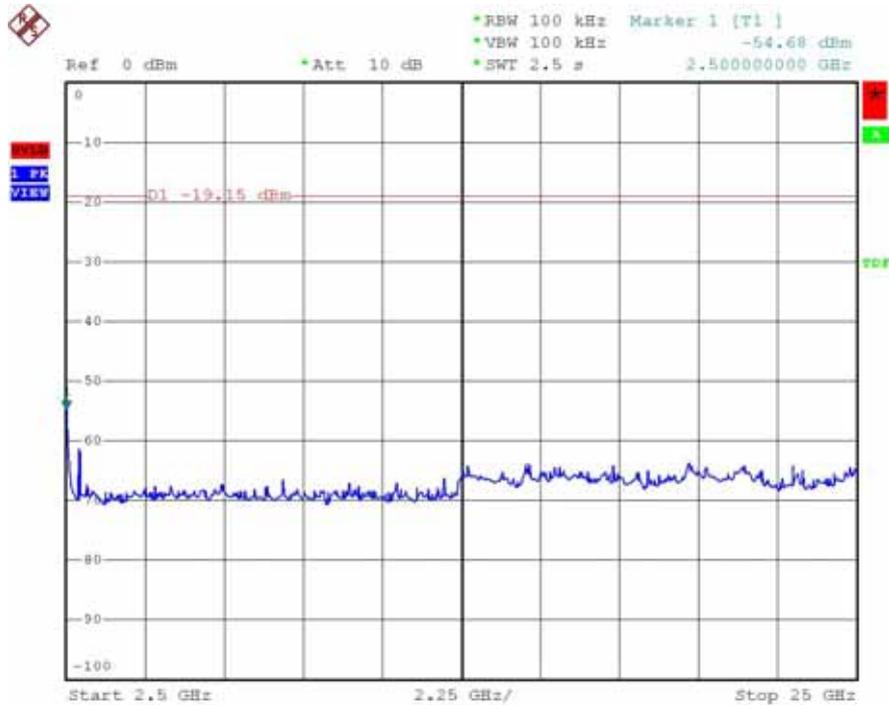


Date: 8.AUG.2008 15:20:33

Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 11

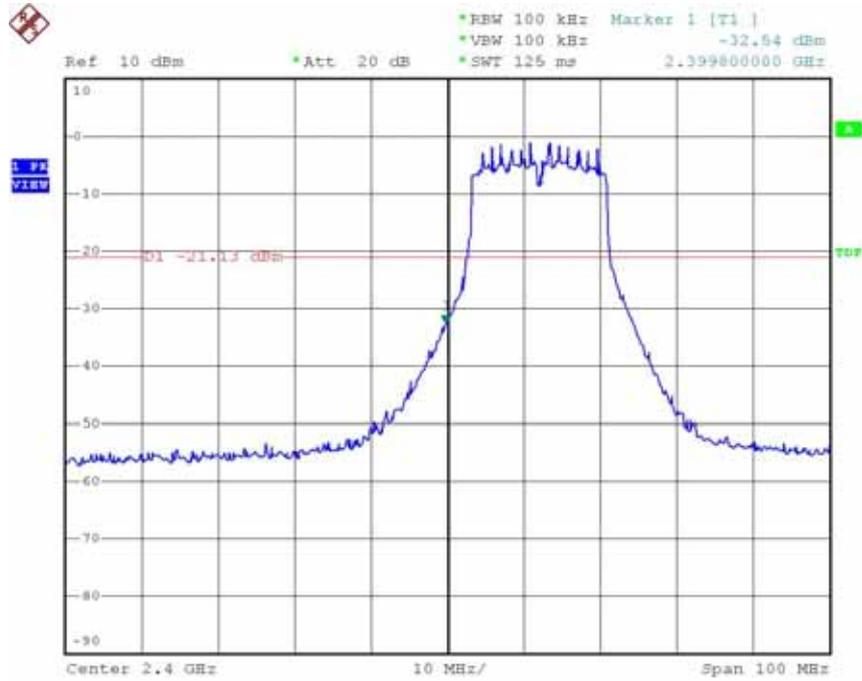


Date: 8.AUG.2008 15:17:41

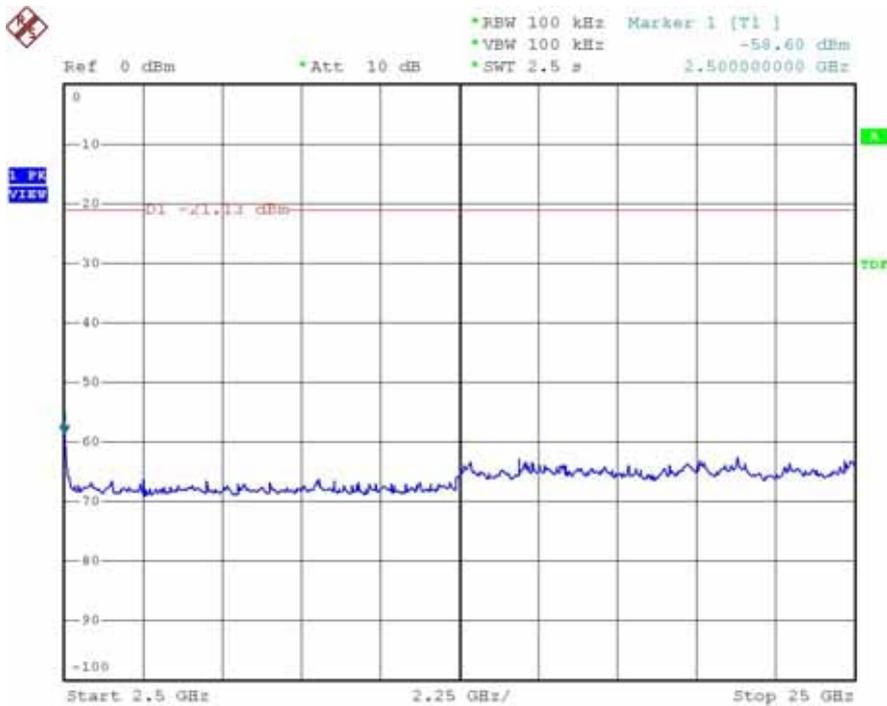


Date: 8.AUG.2008 15:18:11

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 01

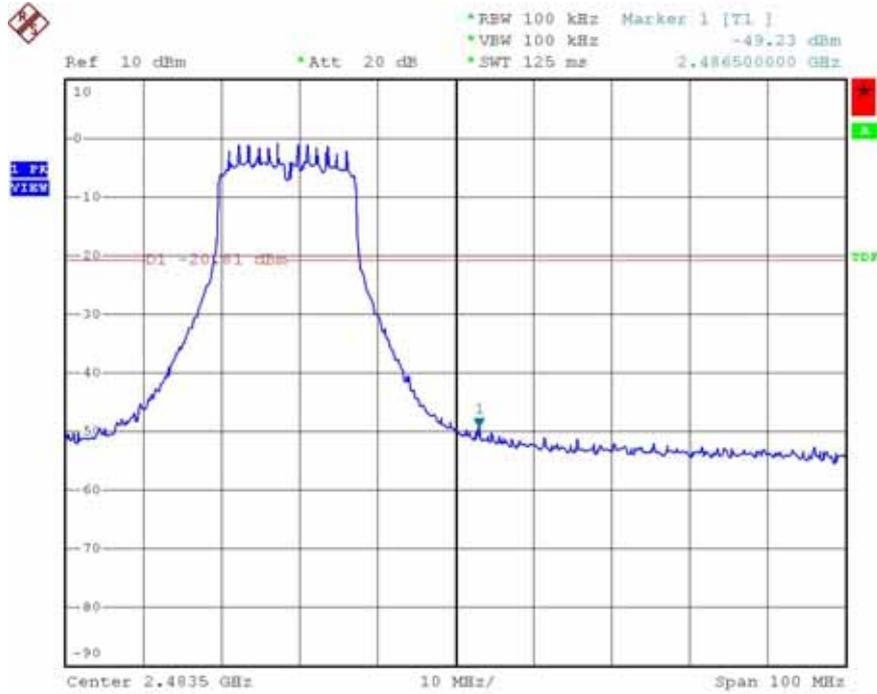


Date: 8.AUG.2008 14:58:35

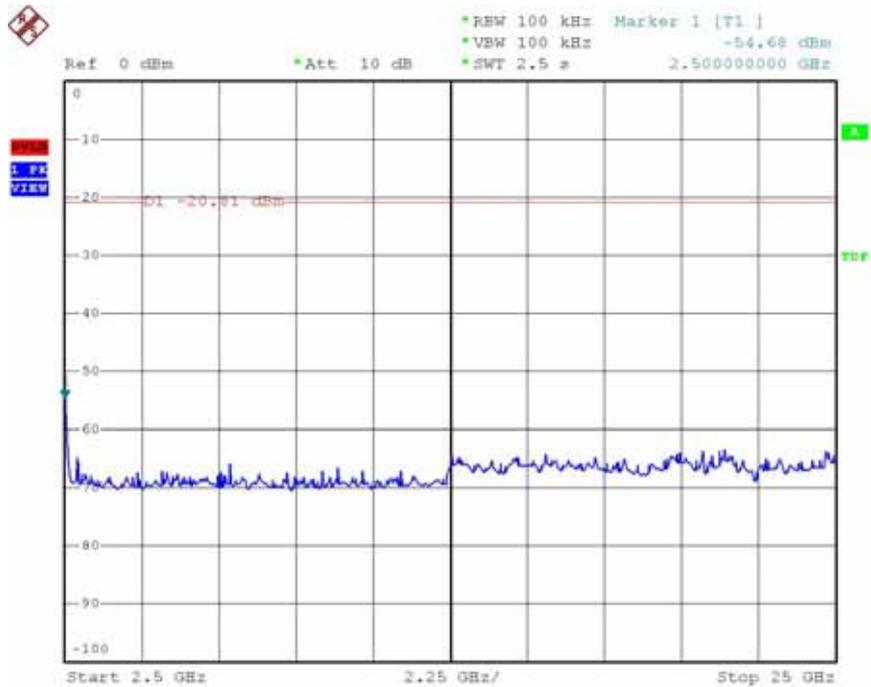


Date: 8.AUG.2008 15:00:16

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 11

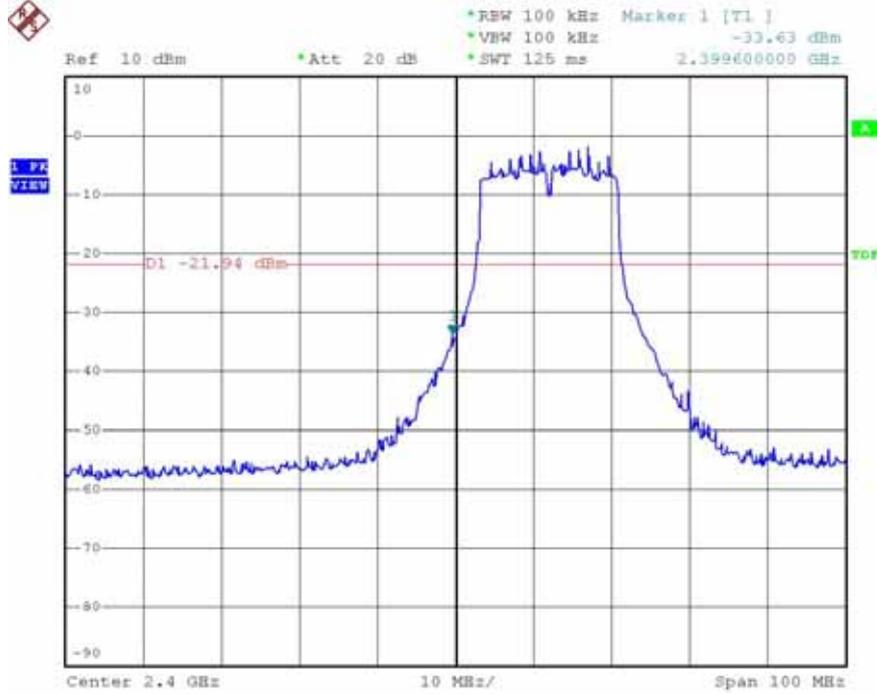


Date: 8.AUG.2008 14:56:40

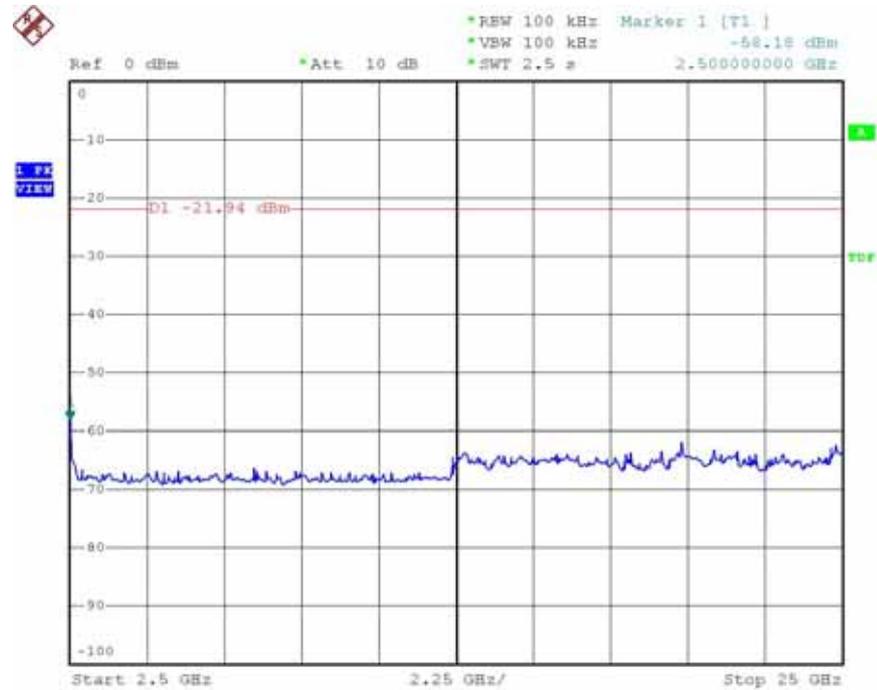


Date: 8.AUG.2008 14:57:11

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 01

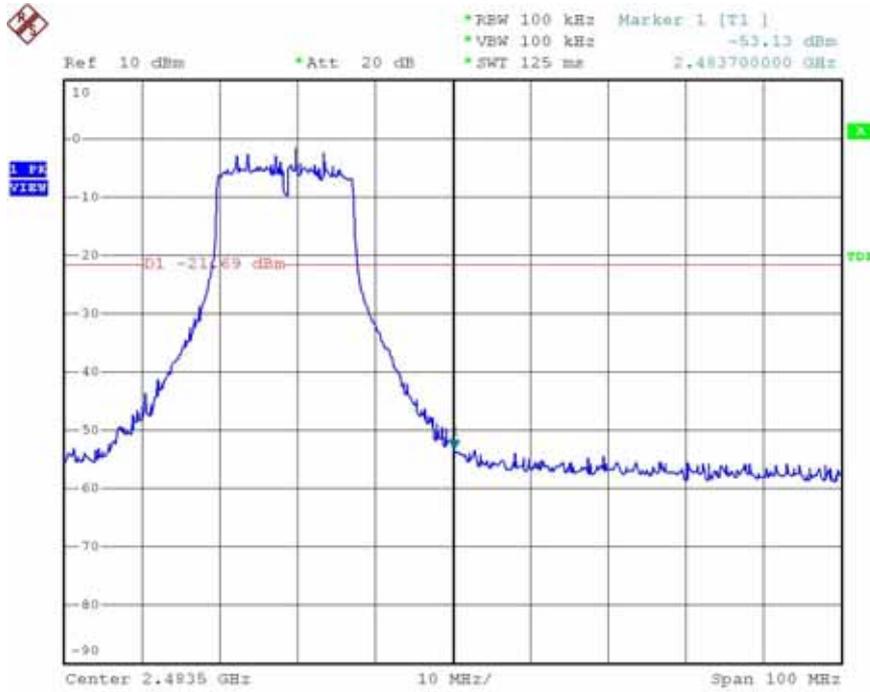


Date: 8.AUG.2008 15:01:01

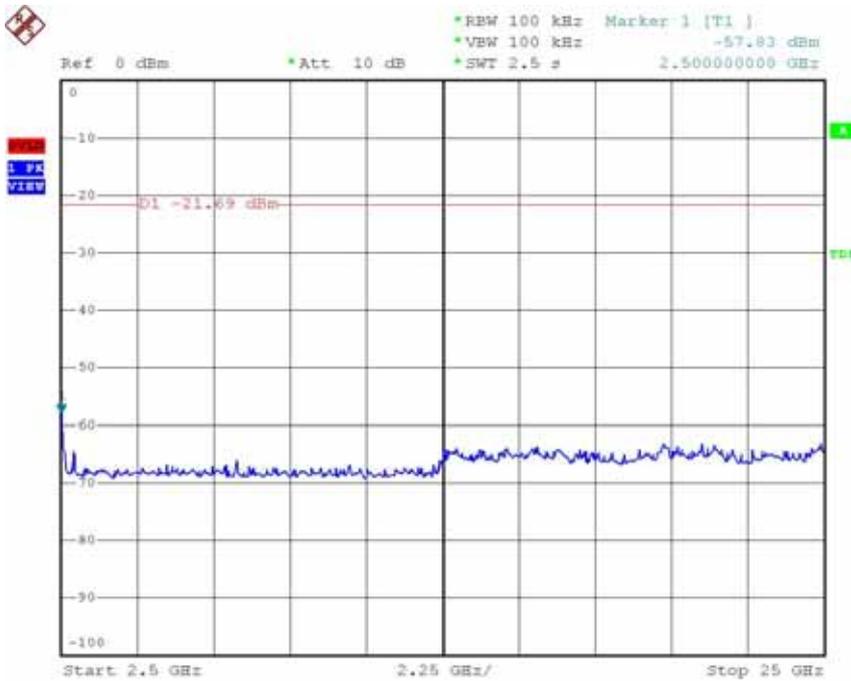


Date: 8.AUG.2008 15:02:24

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 11

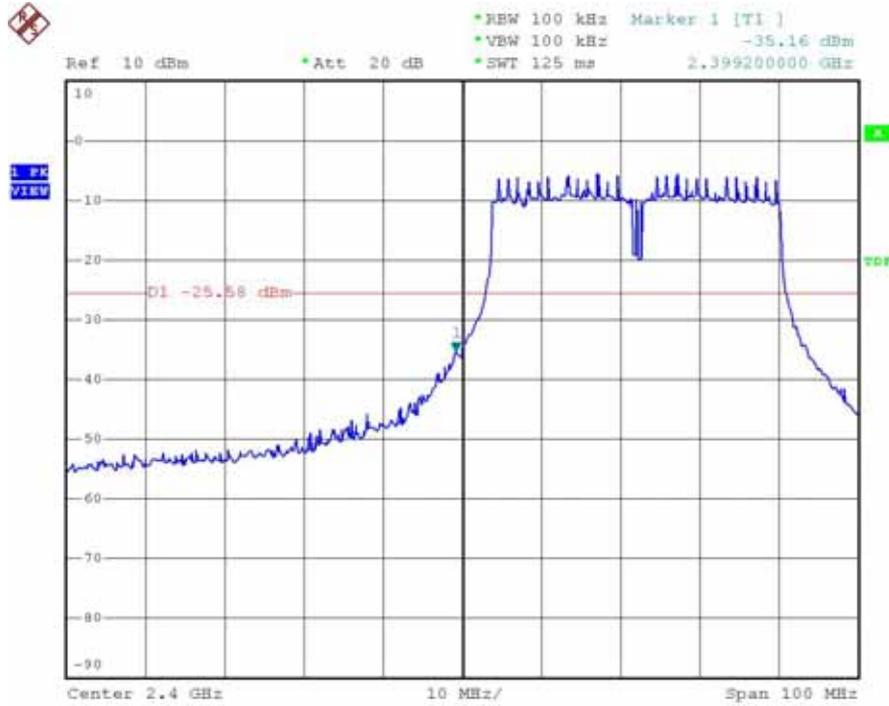


Date: 8.AUG.2008 14:53:56

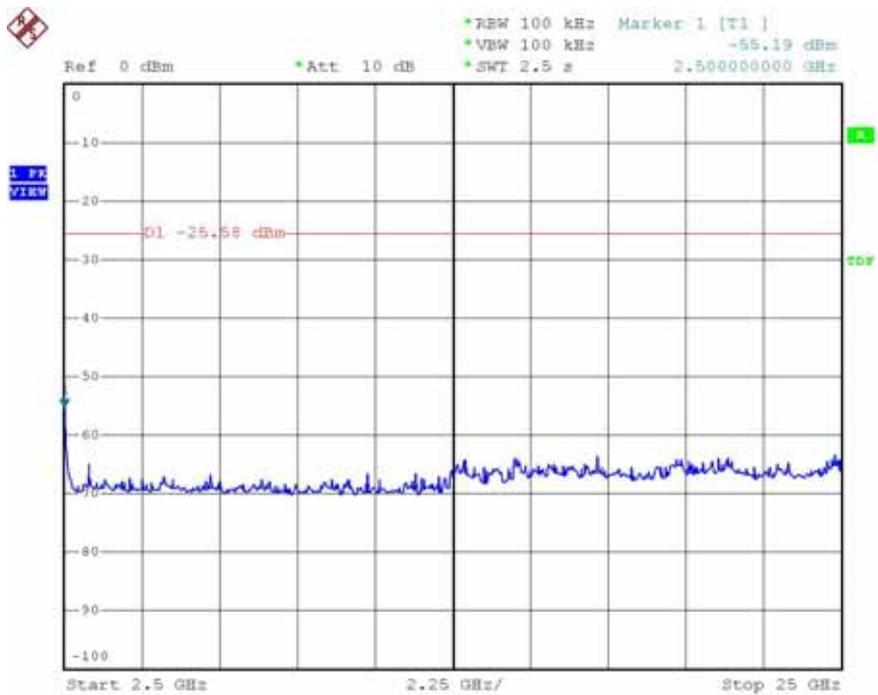


Date: 8.AUG.2008 14:55:12

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 03

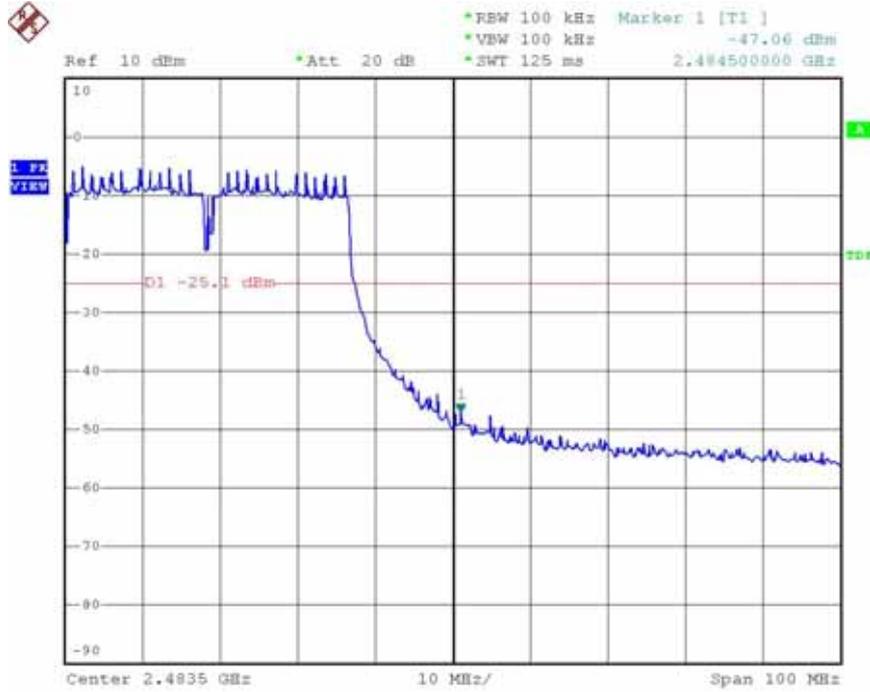


Date: 8.AUG.2008 15:06:44

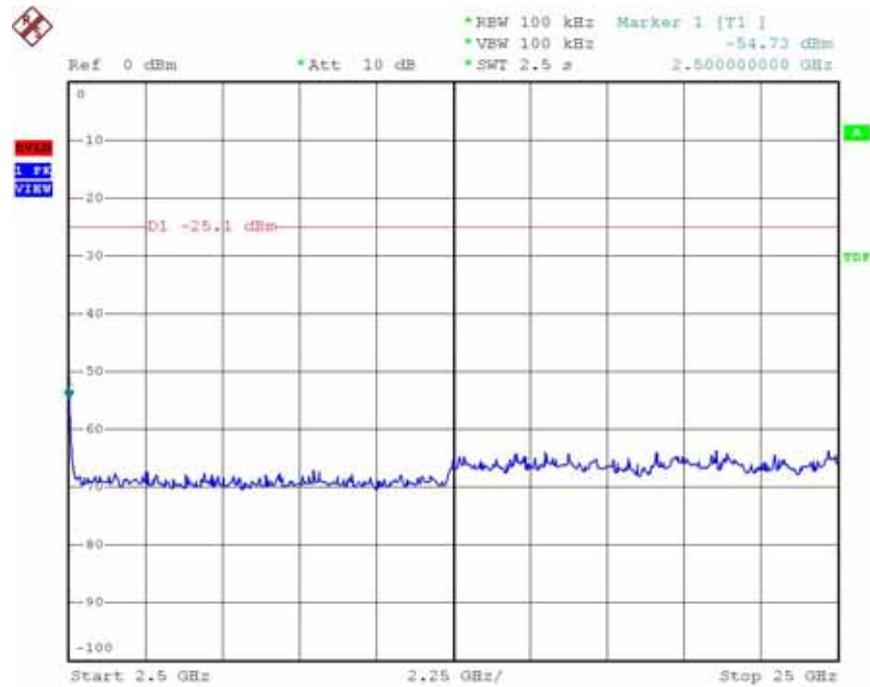


Date: 8.AUG.2008 15:07:20

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 09

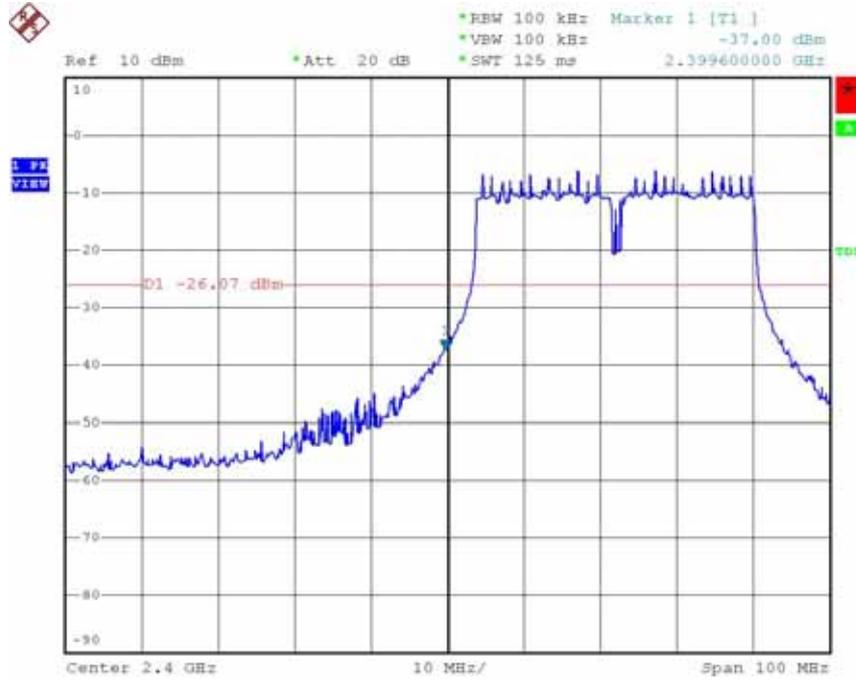


Date: 8.AUG.2008 15:08:33

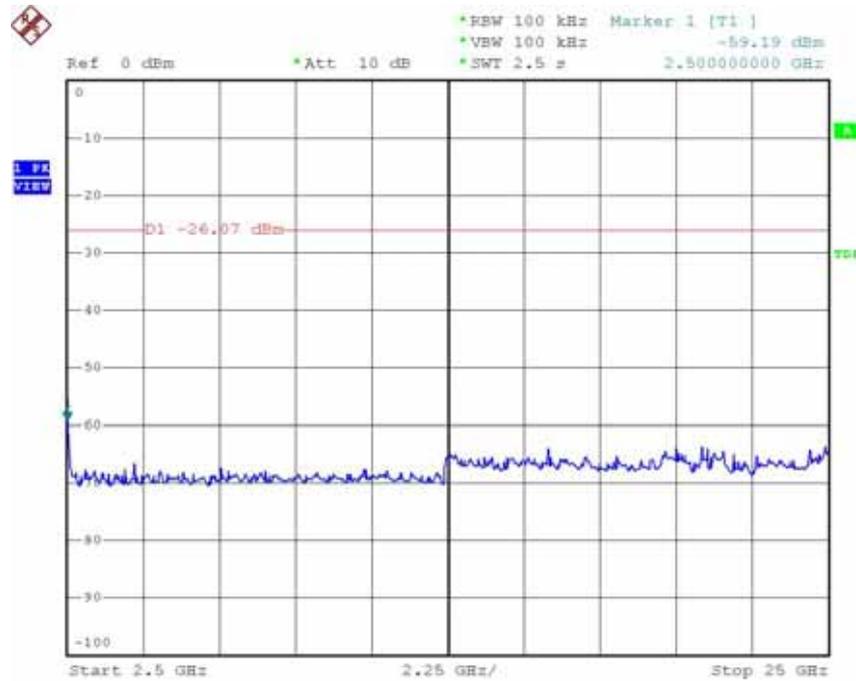


Date: 8.AUG.2008 15:09:11

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
 Channel: 03

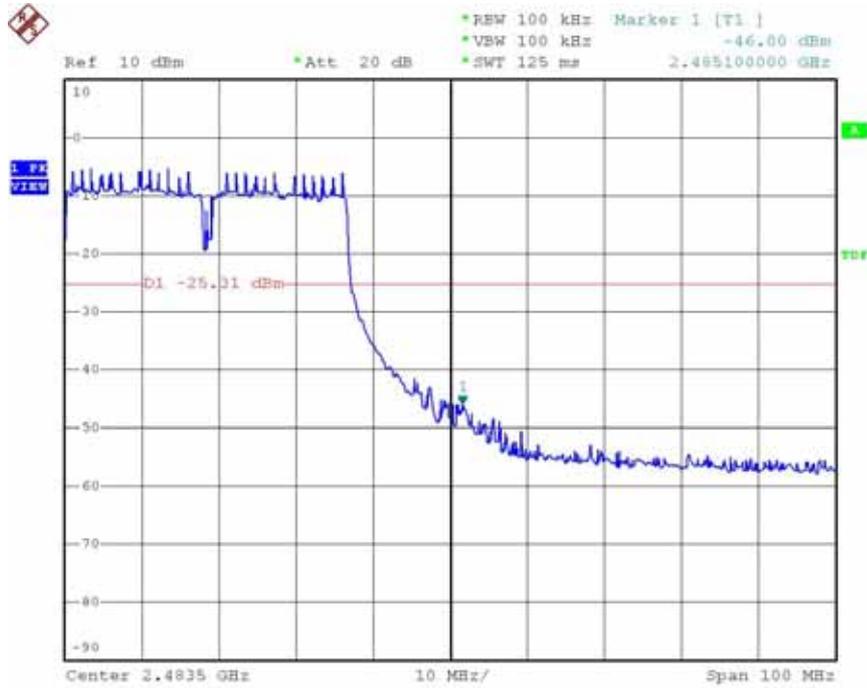


Date: 8.AUG.2008 15:03:29

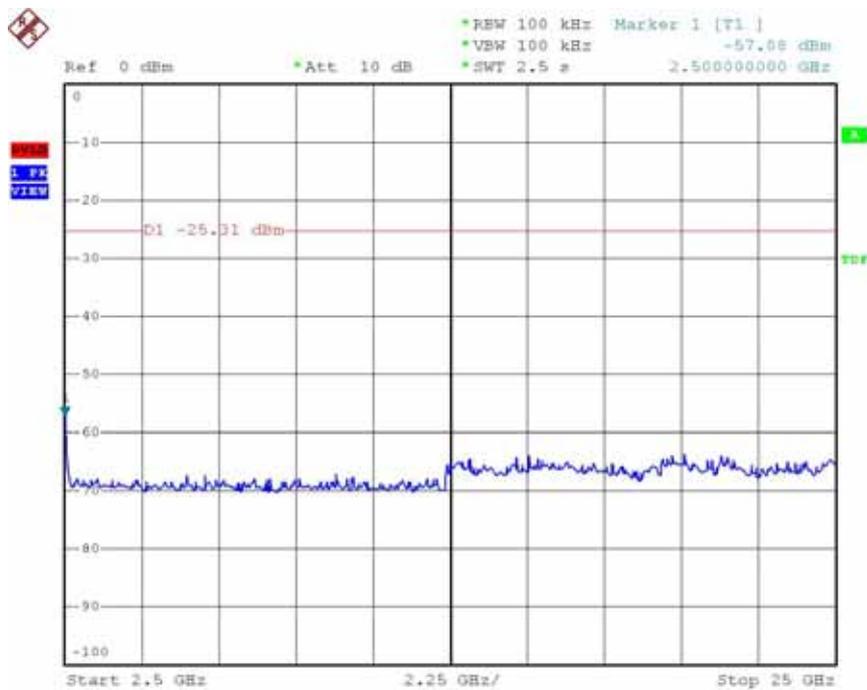


Date: 8.AUG.2008 15:05:38

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
 Channel: 09



Date: 8.AUG.2008 15:10:22



Date: 8.AUG.2008 15:10:50

8.6 Restrict Band Emission Measurement Data

Test Date : Aug. 07, 2008
 Temperature : 30
 Humidity : 65%
 Atmospheric Pressure : 1020 hPa

Modulation Standard: IEEE 802.11b (11Mbps), Adapter: DSA-12G-12 AUS 120120

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2385.89	H	61.73	-3.31	58.39	Peak	74	54	-15.61	212	1.31
2385.17	H	48.89	-3.31	45.58	Ave	74	54	-8.42	212	1.31
2387.93	V	61.46	-3.30	58.16	Peak	74	54	-15.84	228	1.32
2389.97	V	48.65	-3.30	45.35	Ave	74	54	-8.65	228	1.32
Channel 11						Fundamental Frequency: 2462 MHz				
2488.37	H	59.48	-2.94	56.54	Peak	74	54	-17.46	212	1.31
247.80	H	47.32	-2.94	44.38	Ave	74	54	-9.62	212	1.31
2487.42	V	62.29	-2.95	59.34	Peak	74	54	-14.66	228	1.32
2487.62	V	50.58	-2.94	47.64	Ave	74	54	-6.36	228	1.32

Modulation Standard: IEEE 802.11g (6Mbps), Adapter: DSA-12G-12 AUS 120120

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.76	H	61.49	-3.30	58.19	Peak	74	54	-15.81	212	1.31
2389.76	H	49.66	-3.30	46.36	Ave	74	54	-7.64	212	1.31
2389.76	V	63.48	-3.30	60.18	Peak	74	54	-13.82	228	1.32
2389.97	V	51.23	-3.30	47.93	Ave	74	54	-6.07	228	1.32
Channel 11						Fundamental Frequency: 2462 MHz				
2485.26	H	60.40	-2.95	57.45	Peak	74	54	-16.55	212	1.32
2483.51	H	48.38	-2.96	45.42	Ave	74	54	-8.58	212	1.32
2484.50	V	63.51	-2.96	60.55	Peak	74	54	-13.45	228	1.32
2483.93	V	51.40	-2.96	48.44	Ave	74	54	-5.56	228	1.32

Notes:

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

Test Date : Aug. 07, 2008
 Temperature : 30
 Humidity : 65%
 Atmospheric Pressure : 1020 hPa

Modulation Standard: IEEE 802.11n HT20 (6.5Mbps), Adapter: DSA-12G-12 AUS 120120

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	62.22	-3.30	58.92	Peak	74	54	-15.08	212	1.31
2389.97	H	49.53	-3.30	46.23	Ave	74	54	-7.77	212	1.31
2389.97	V	62.52	-3.30	59.22	Peak	74	54	-14.78	228	1.32
2389.97	V	50.66	-3.30	47.36	Ave	74	54	-6.64	228	1.32
Channel 11						Fundamental Frequency: 2462 MHz				
2483.93	H	61.27	-2.96	58.31	Peak	74	54	-15.69	212	1.31
2483.74	H	48.23	-2.96	45.27	Ave	74	54	-8.73	212	1.31
2483.74	V	64.57	-2.96	61.61	Peak	74	54	-12.39	228	1.32
2483.51	V	51.80	-2.96	48.84	Ave	74	54	-5.16	228	1.32

Modulation Standard: IEEE 802.11n HT40 (13.5Mbps), Adapter: DSA-12G-12 AUS 120120

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2387.72	H	62.47	-3.30	59.17	Peak	74	54	-14.73	212	1.31
2389.76	H	49.72	-3.30	46.42	Ave	74	54	-7.58	212	1.31
2387.42	V	64.53	-3.31	61.22	Peak	74	54	-12.78	228	1.32
239.97	V	51.66	-3.30	48.36	Ave	74	54	-5.64	228	1.32
Channel 9						Fundamental Frequency: 2452 MHz				
2484.00	H	60.44	-2.96	57.48	Peak	74	54	-16.52	212	1.31
2483.62	H	48.57	-2.96	45.61	Ave	74	54	-8.39	212	1.31
2483.81	V	64.63	-2.96	61.67	Peak	74	54	-12.33	228	1.32
2483.51	V	51.55	-2.96	48.59	Ave	74	54	-5.41	228	1.32

Notes:

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

Test Date : Aug. 07, 2008
 Temperature : 30
 Humidity : 65%
 Atmospheric Pressure : 1020 hPa

Modulation Standard: IEEE 802.11b (11Mbps), Adapter: MT12-Y120100-A1

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2385.89	H	61.11	-3.31	57.79	Peak	74	54	-16.21	212	1.31
2385.17	H	48.55	-3.31	45.24	Ave	74	54	-8.76	212	1.31
2387.93	V	61.24	-3.30	57.94	Peak	74	54	-16.06	228	1.32
2389.97	V	48.97	-3.30	45.67	Ave	74	54	-8.33	228	1.32
Channel 11						Fundamental Frequency: 2462 MHz				
2488.37	H	59.32	-2.94	56.38	Peak	74	54	-17.62	212	1.31
247.80	H	47.99	-2.94	45.05	Ave	74	54	-8.95	212	1.31
2487.42	V	62.13	-2.95	59.19	Peak	74	54	-14.81	228	1.32
2487.62	V	50.77	-2.94	47.83	Ave	74	54	-6.17	228	1.32

Modulation Standard: IEEE 802.11g (6Mbps), Adapter: MT12-Y120100-A1

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.76	H	61.43	-3.30	58.13	Peak	74	54	-15.87	212	1.31
2389.76	H	49.25	-3.30	45.95	Ave	74	54	-8.05	212	1.31
2389.76	V	63.22	-3.30	59.93	Peak	74	54	-14.07	228	1.32
2389.97	V	51.00	-3.30	47.70	Ave	74	54	-6.30	228	1.32
Channel 11						Fundamental Frequency: 2462 MHz				
2485.26	H	60.42	-2.95	57.47	Peak	74	54	-16.53	212	1.32
2483.51	H	48.01	-2.96	45.05	Ave	74	54	-8.95	212	1.32
2484.50	V	63.60	-2.96	60.64	Peak	74	54	-13.36	228	1.32
2483.93	V	51.36	-2.96	48.40	Ave	74	54	-5.60	228	1.32

Notes:

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

Test Date : Aug. 07, 2008
 Temperature : 30
 Humidity : 65%
 Atmospheric Pressure : 1020 hPa

Modulation Standard: IEEE 802.11n HT20 (6.5Mbps), Adapter: MT12-Y120100-A1

Channel 1						Fundamental Frequency: 2412 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.97	H	62.17	-3.30	58.88	Peak	74	54	-15.12	212	1.31
2389.97	H	49.47	-3.30	46.18	Ave	74	54	-7.82	212	1.31
2389.97	V	62.60	-3.30	59.30	Peak	74	54	-14.70	228	1.32
2389.97	V	50.56	-3.30	47.27	Ave	74	54	-6.73	228	1.32
Channel 11						Fundamental Frequency: 2462 MHz				
2483.93	H	61.02	-2.96	58.06	Peak	74	54	-15.04	212	1.31
2483.74	H	48.19	-2.96	45.23	Ave	74	54	-8.77	212	1.31
2483.74	V	64.66	-2.96	61.70	Peak	74	54	-12.30	228	1.32
2483.51	V	51.82	-2.96	48.87	Ave	74	54	-5.13	228	1.32

Modulation Standard: IEEE 802.11n HT40 (13.5Mbps), Adapter: MT12-Y120100-A1

Channel 3						Fundamental Frequency: 2422 MHz				
Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2387.72	H	62.55	-3.30	59.25	Peak	74	54	-14.75	212	1.31
2389.76	H	49.85	-3.30	46.56	Ave	74	54	-7.44	212	1.31
2387.42	V	64.42	-3.31	61.11	Peak	74	54	-12.89	228	1.32
239.97	V	51.78	-3.30	48.49	Ave	74	54	-5.51	228	1.32
Channel 9						Fundamental Frequency: 2452 MHz				
2484.00	H	60.60	-2.96	57.65	Peak	74	54	-16.35	212	1.31
2483.62	H	48.42	-2.96	45.47	Ave	74	54	-8.53	212	1.31
2483.81	V	64.36	-2.96	61.40	Peak	74	54	-12.60	228	1.32
2483.51	V	51.80	-2.96	48.84	Ave	74	54	-5.16	228	1.32

Notes:

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

9. Power Spectral Density

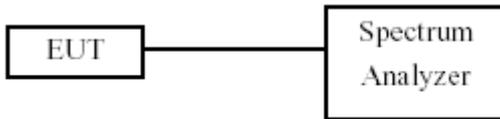
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

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

9.3 Test Setup Layout



9.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2008/02/22	2009/02/21

9.5 Test Result and Data

Test Date: Aug. 08, 2008

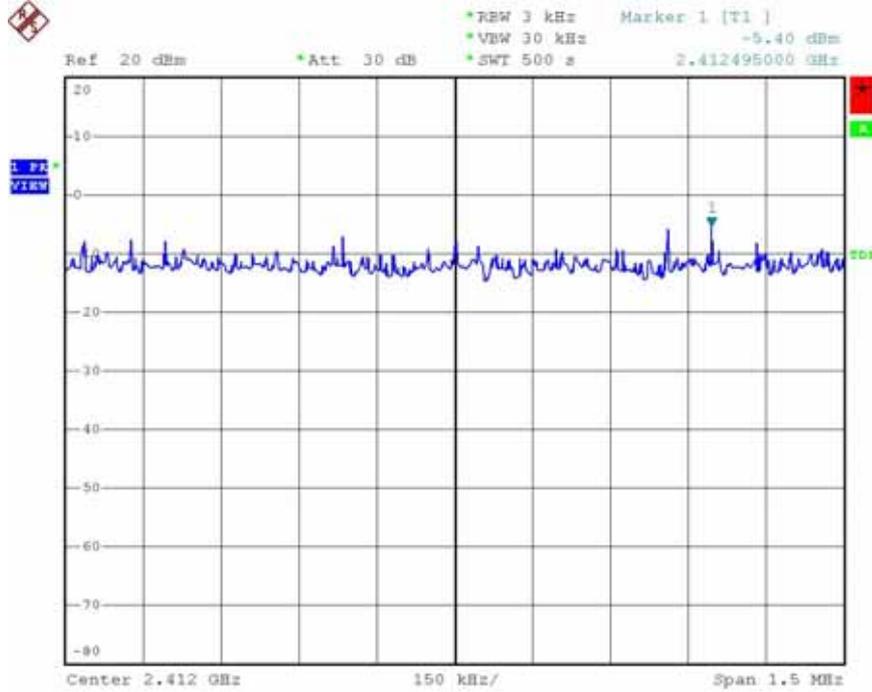
Temperature: 20

Atmospheric pressure: 1008 hPa

Humidity: 60%

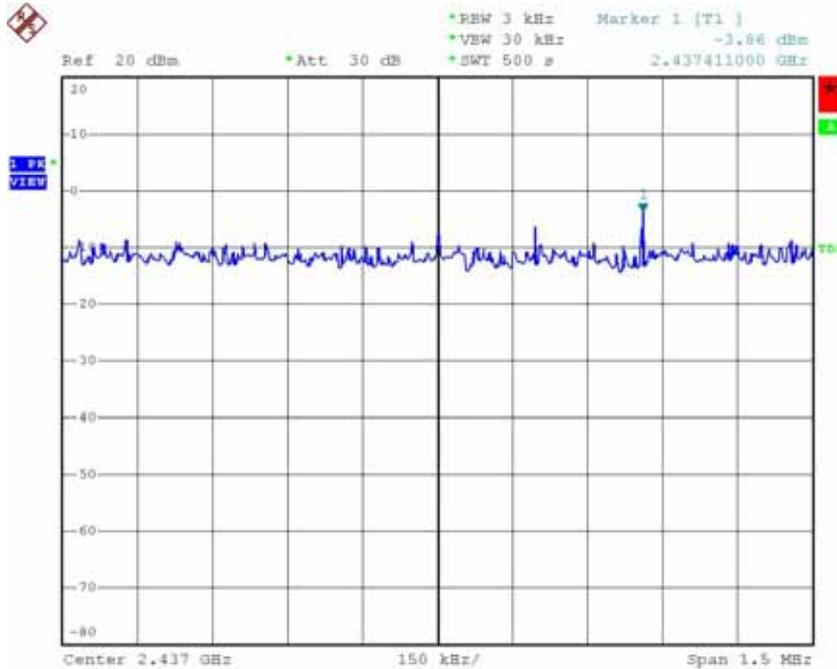
Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			ANT R	ANT L	R + L
802.11b (11Mbps)	01	2412	-5.40	3.48	
	06	2437	-3.86	3.92	
	11	2462	-6.33	4.83	
802.11g (6Mbps)	01	2412	-10.27	-13.31	
	06	2437	-9.87	-10.57	
	11	2462	-9.57	-10.89	
			ANT R	ANT L	R + L
802.11n HT20 (6.5Mbps)	01	2412	-9.04	-9.38	-6.20
	06	2437	-9.18	-9.64	-6.39
	11	2462	-6.54	-10.34	-5.03
802.11n HT40 (13.5Mbps)	03	2422	-11.43	-10.56	-7.96
	06	2437	-10.96	-10.61	-7.77
	09	2452	-11.26	-10.76	-7.99

Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 01



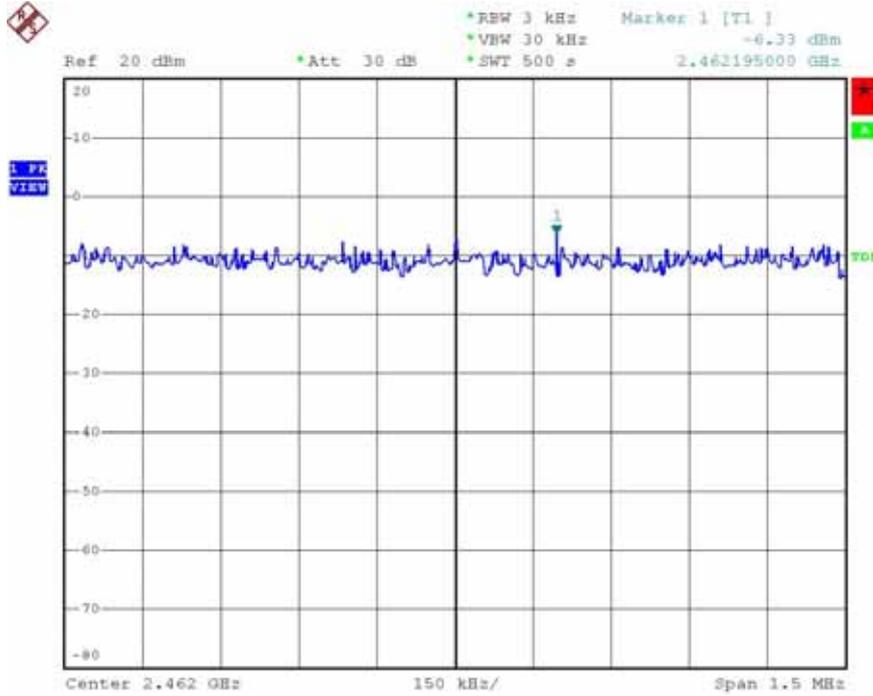
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Modulation Standard: 802.11b (11Mbps), ANT R
 Channel: 06



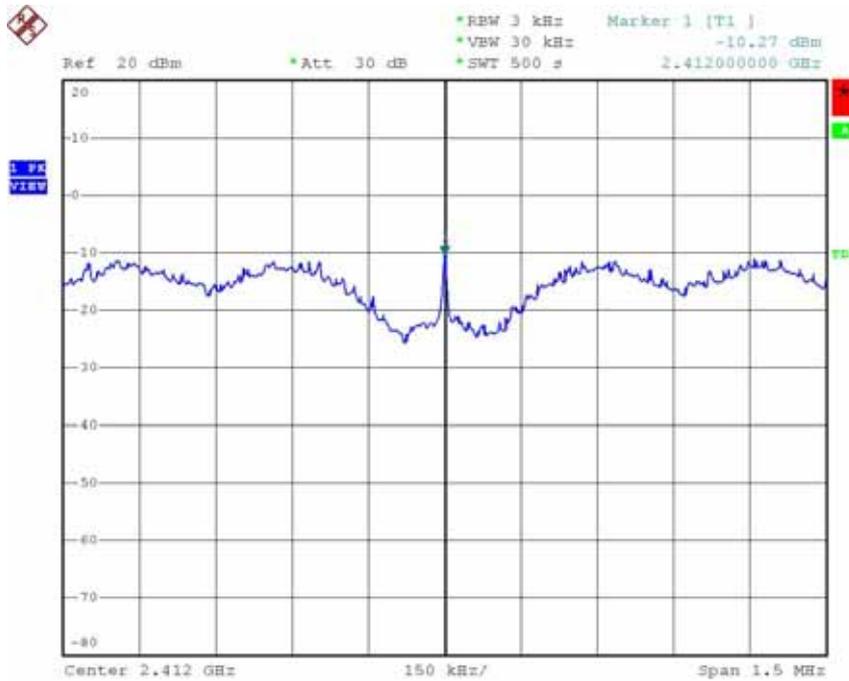
Date: 8.AUG.2008 11:34:29

Modulation Standard: 802.11b (11Mbps), ANT R
Channel: 11



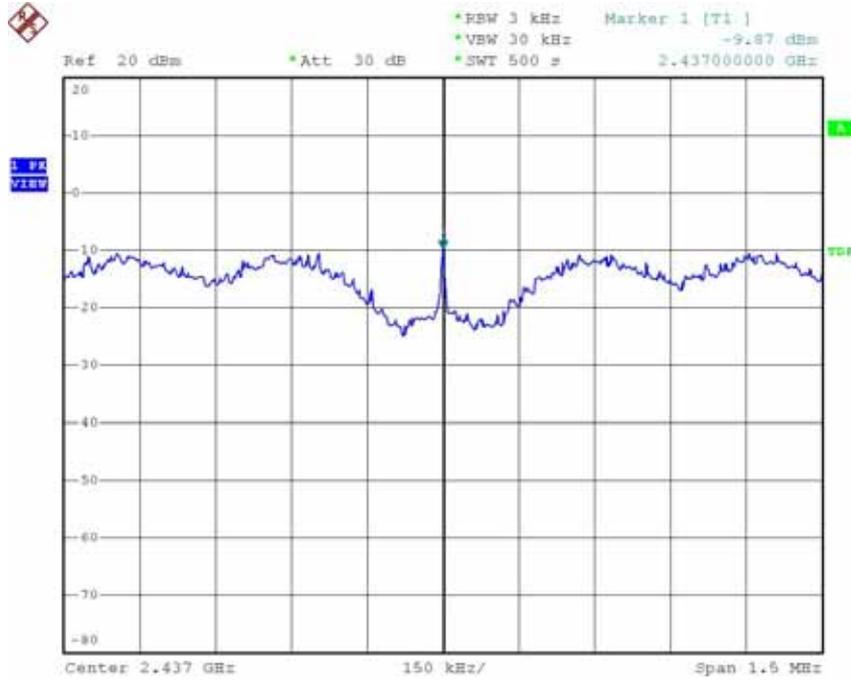
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Modulation Standard: 802.11g (6Mbps), ANT R
Channel: 01



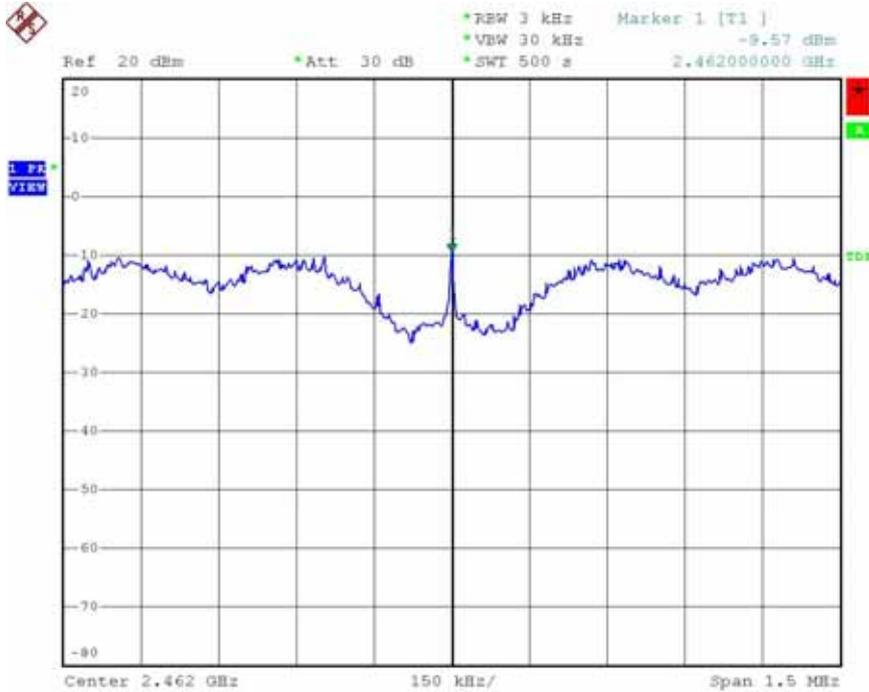
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Modulation Standard: 802.11g (6Mbps), ANT R
Channel: 06



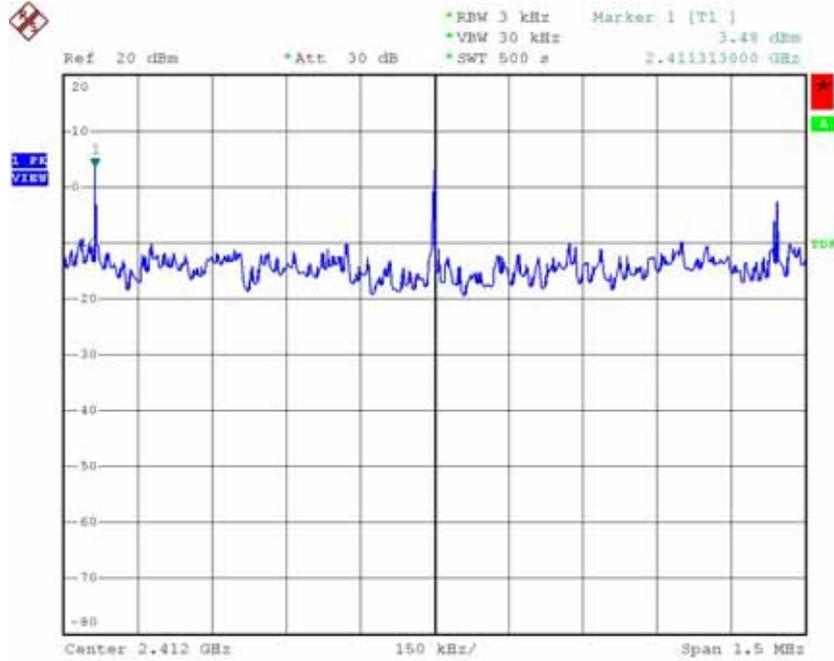
Date: 8.AUG.2008 13:10:19

Modulation Standard: 802.11g (6Mbps), ANT R
Channel: 11



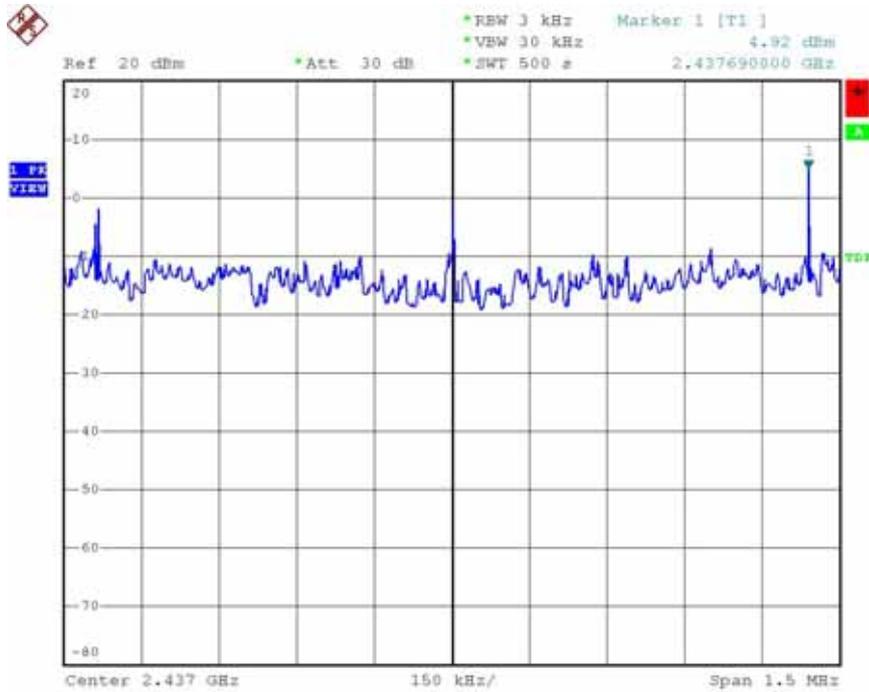
Date: 8.AUG.2008 11:53:58

Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 01



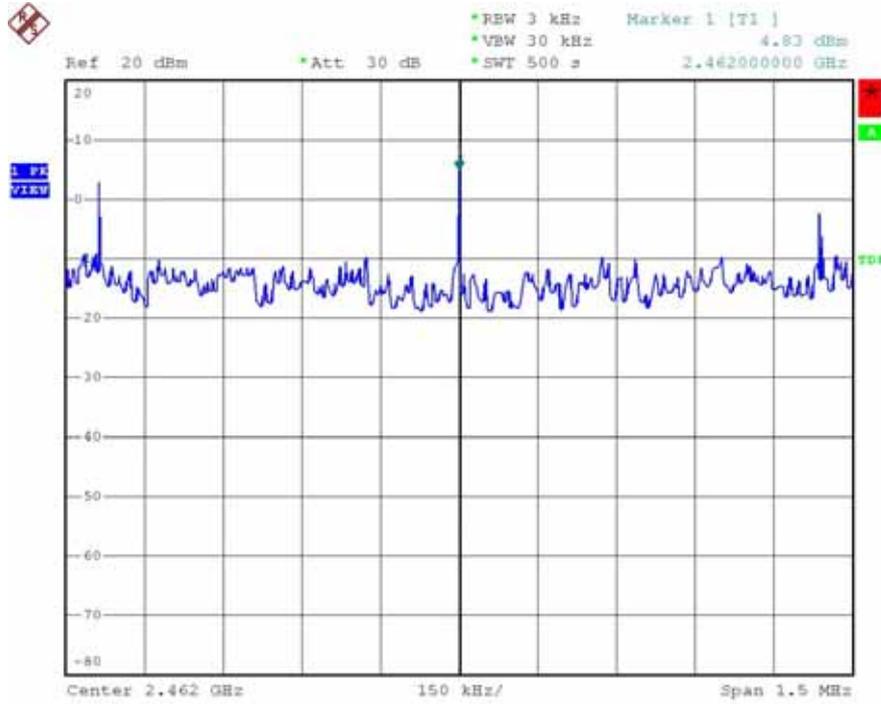
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Modulation Standard: 802.11b (11Mbps), ANT L
Channel: 06



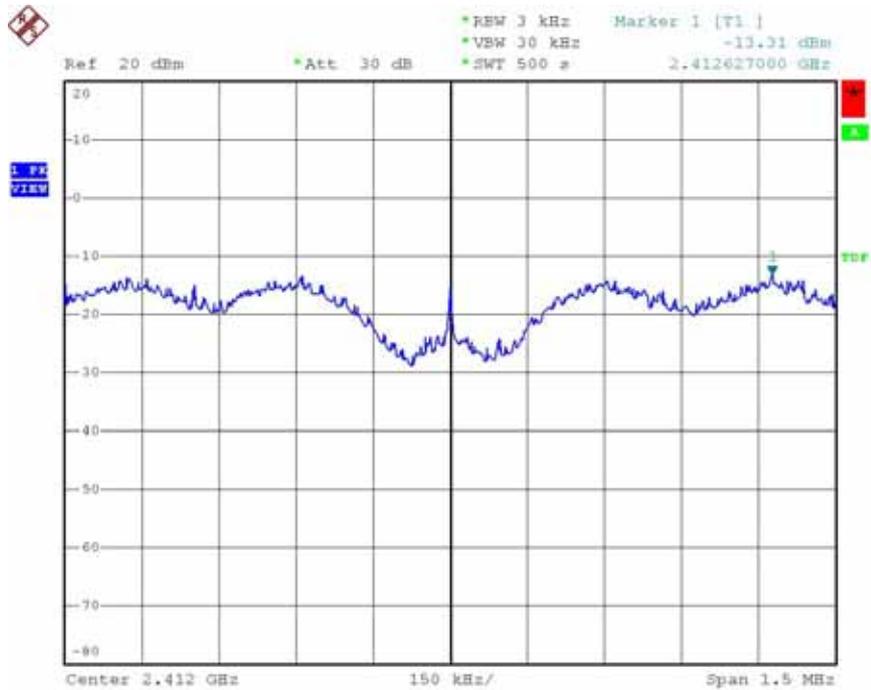
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Modulation Standard: 802.11b (11Mbps), ANT L
 Channel: 11



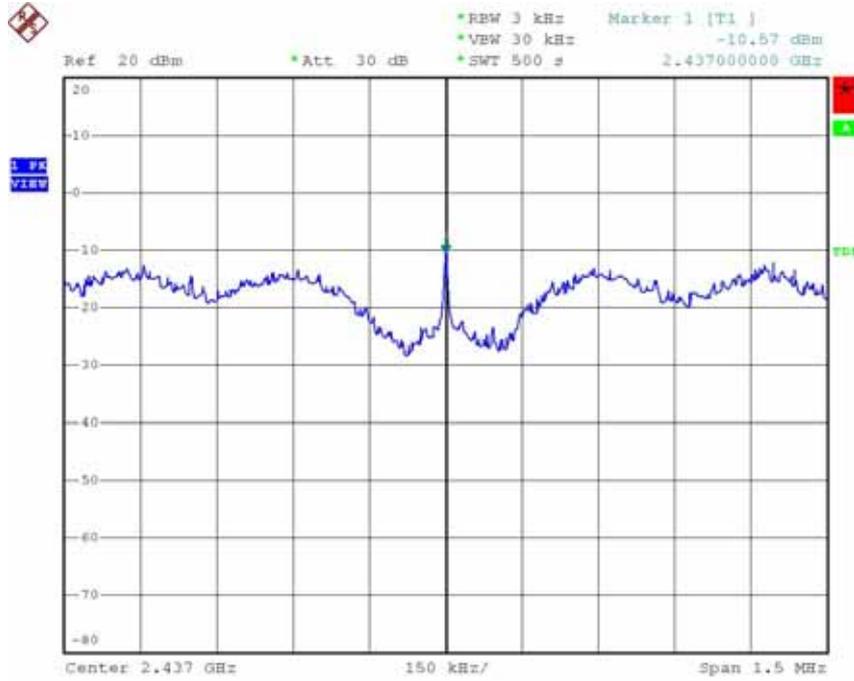
Date: 8.AUG.2008 16:08:19

Modulation Standard: 802.11g (6Mbps), ANT L
 Channel: 01



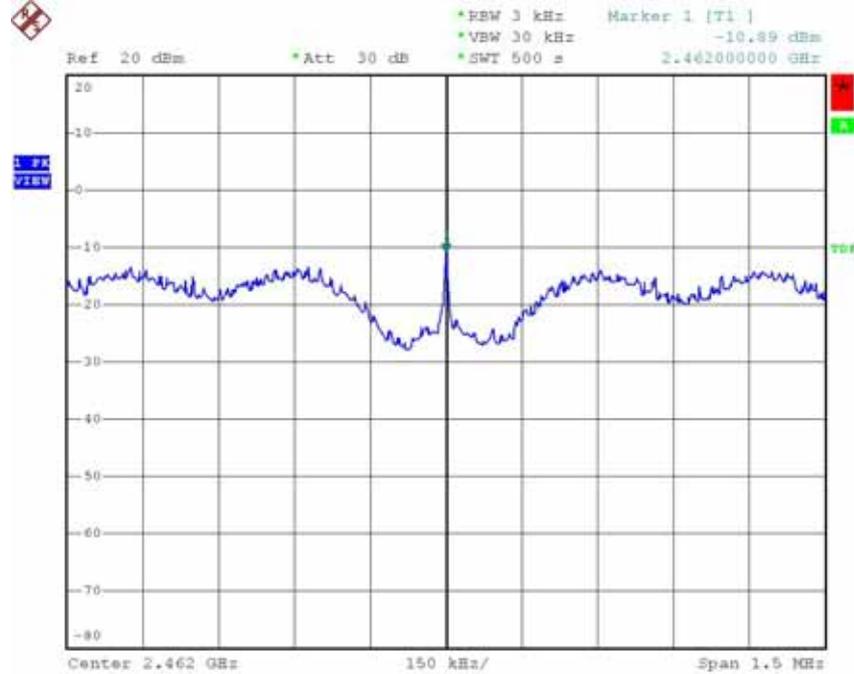
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Modulation Standard: 802.11g (6Mbps), ANT L
Channel: 06



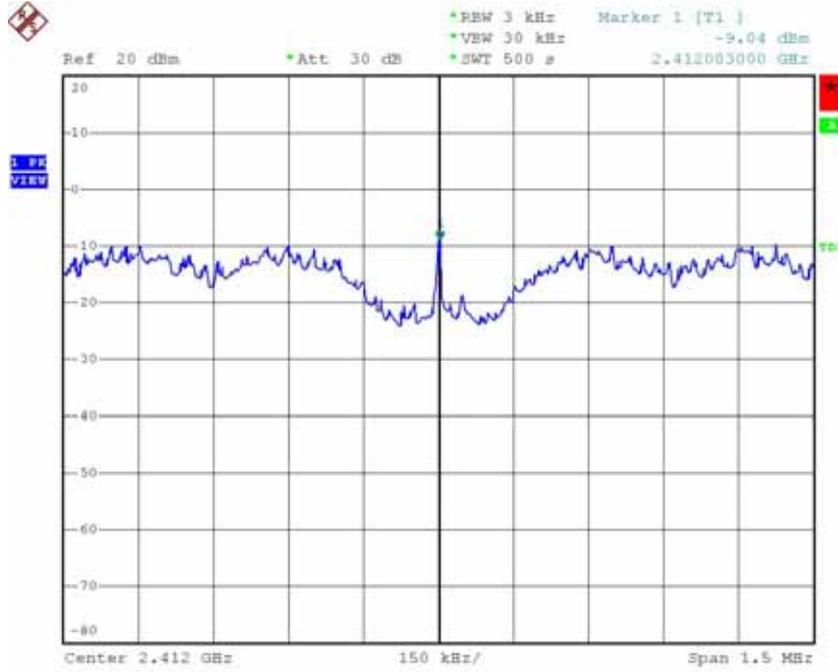
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Modulation Standard: 802.11g (6Mbps), ANT L
Channel: 11



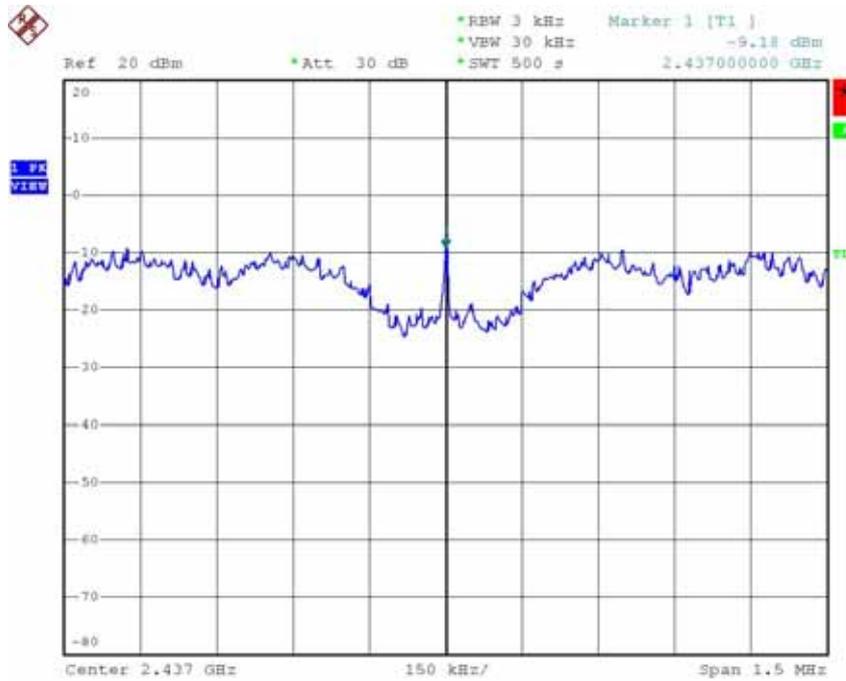
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Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
Channel: 01



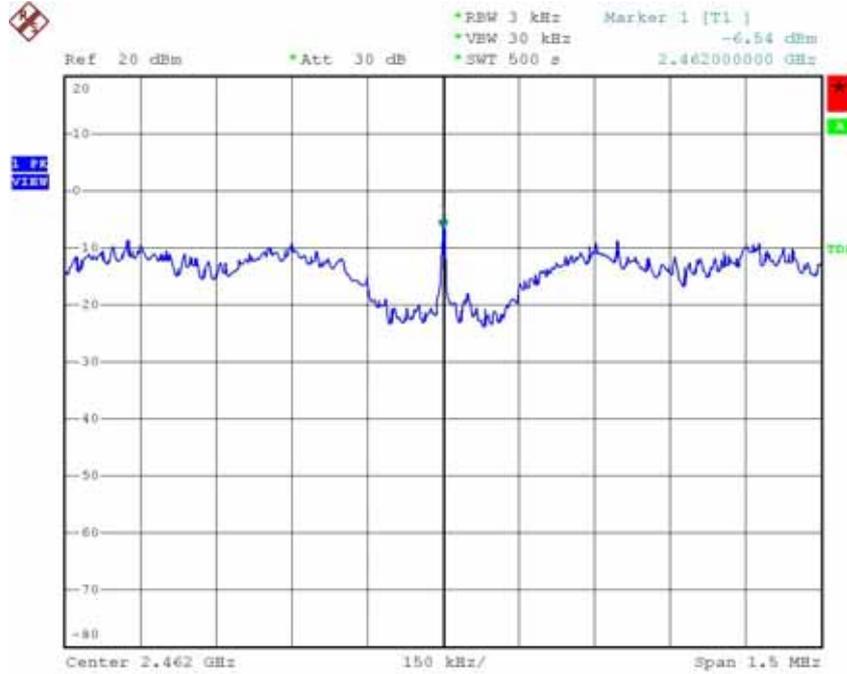
Date: 8.AUG.2008 16:48:14

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
Channel: 06



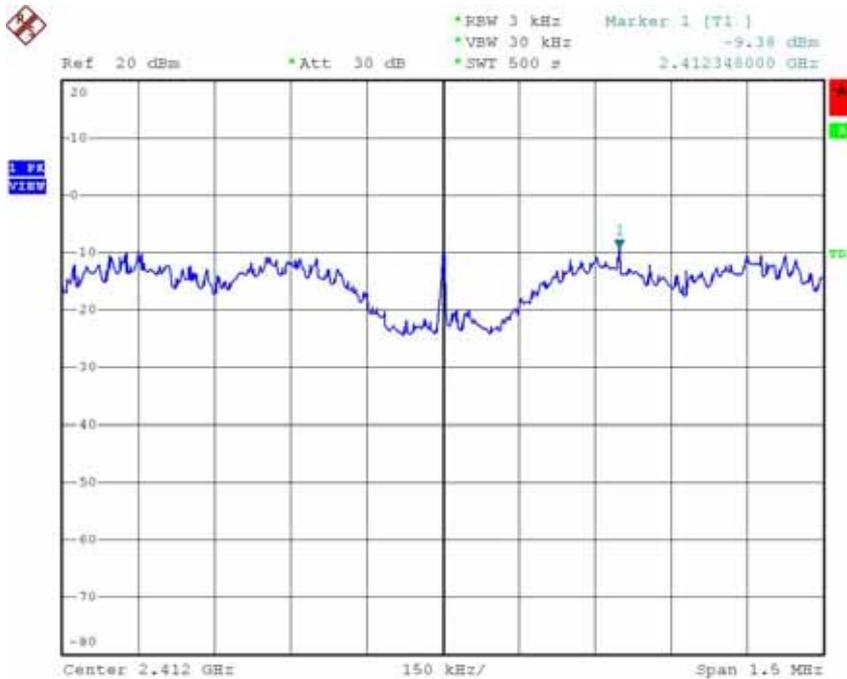
Date: 8.AUG.2008 16:59:51

Modulation Standard: 802.11n HT20 (6.5Mbps), ANT R
 Channel: 11



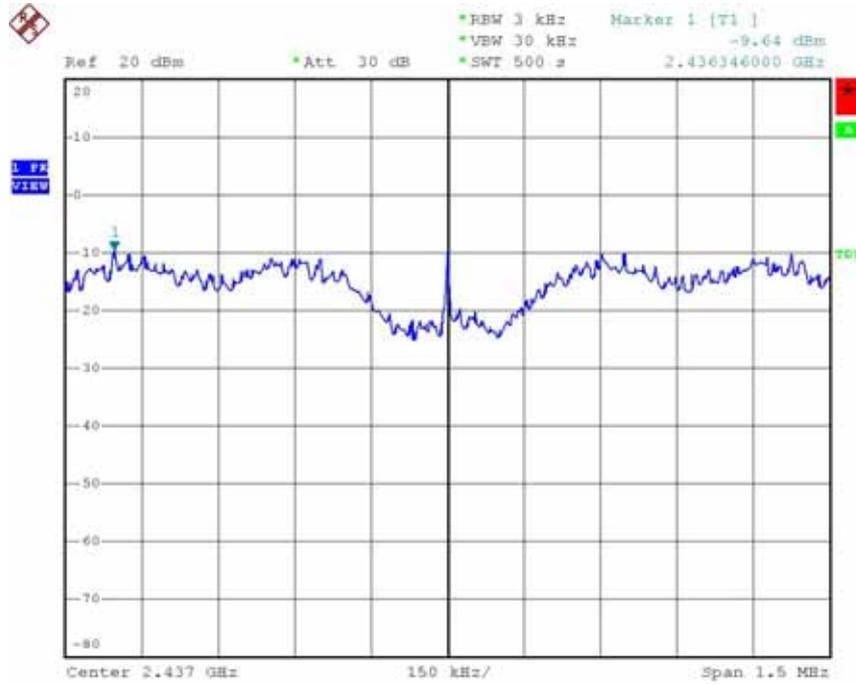
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Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
 Channel: 01



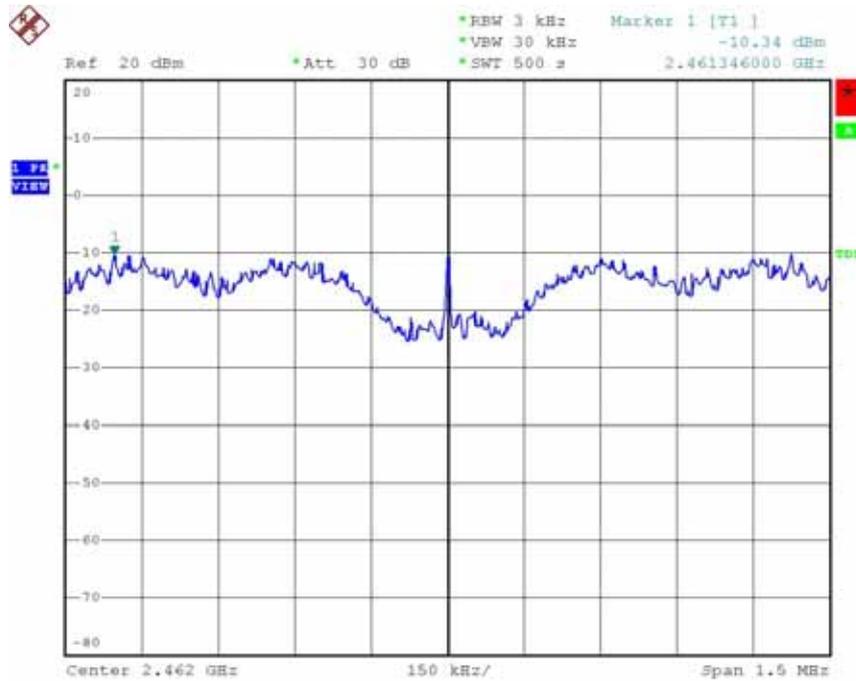
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Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
Channel: 06



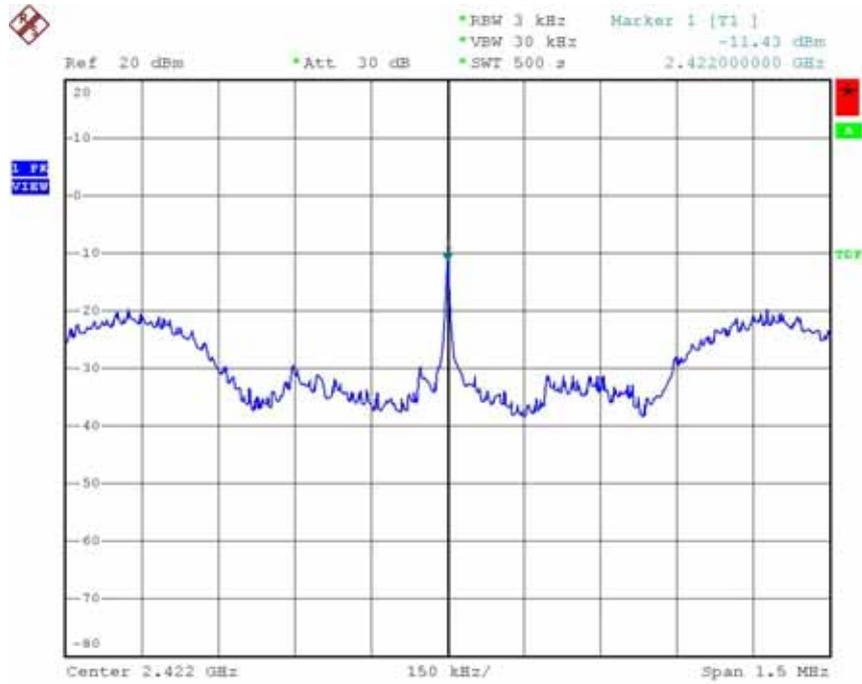
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Modulation Standard: 802.11n HT20 (6.5Mbps), ANT L
Channel: 11



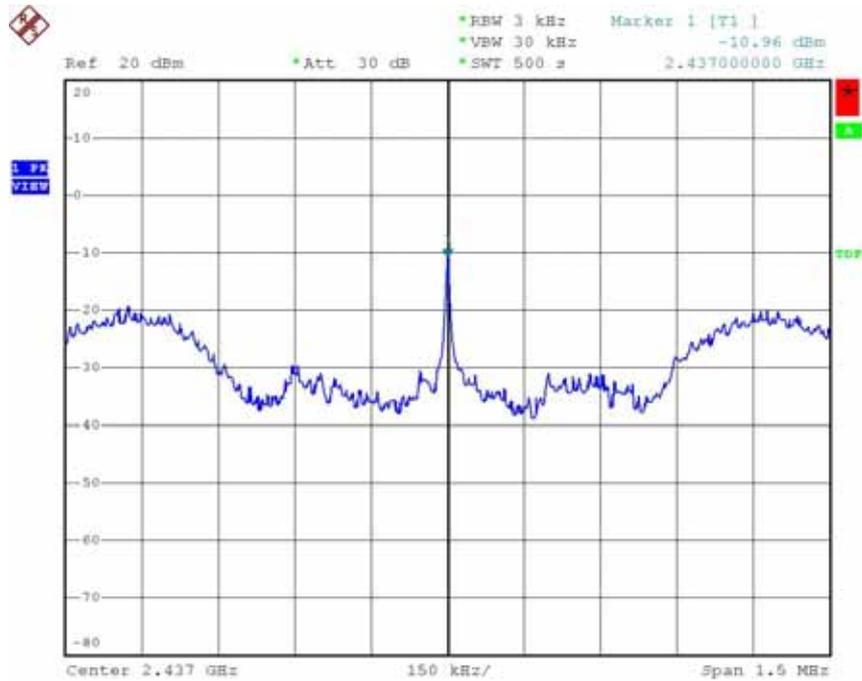
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Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 03



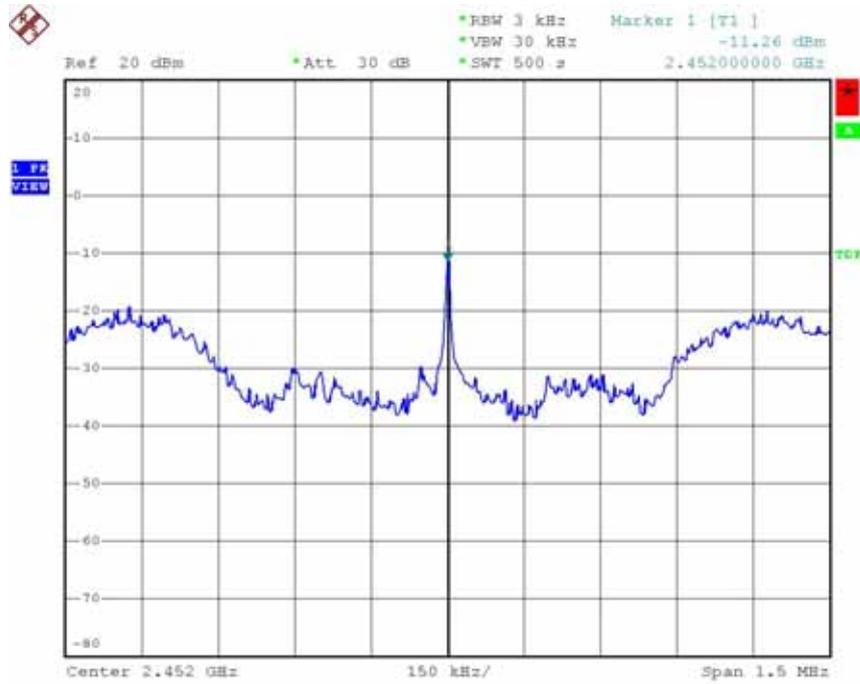
Date: 8.AUG.2008 17:45:21

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
 Channel: 06



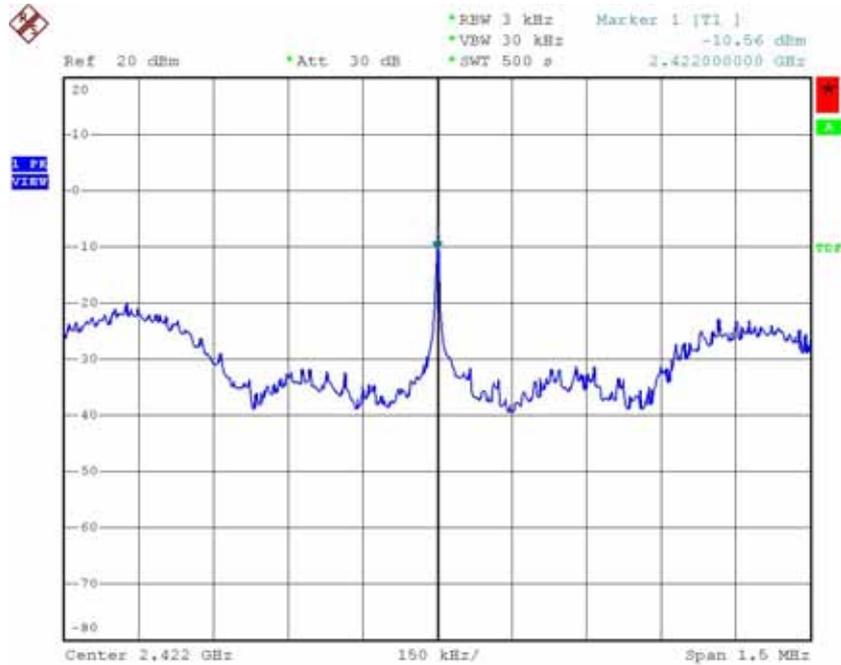
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Modulation Standard: 802.11n HT40 (13.5Mbps), ANT R
Channel: 09



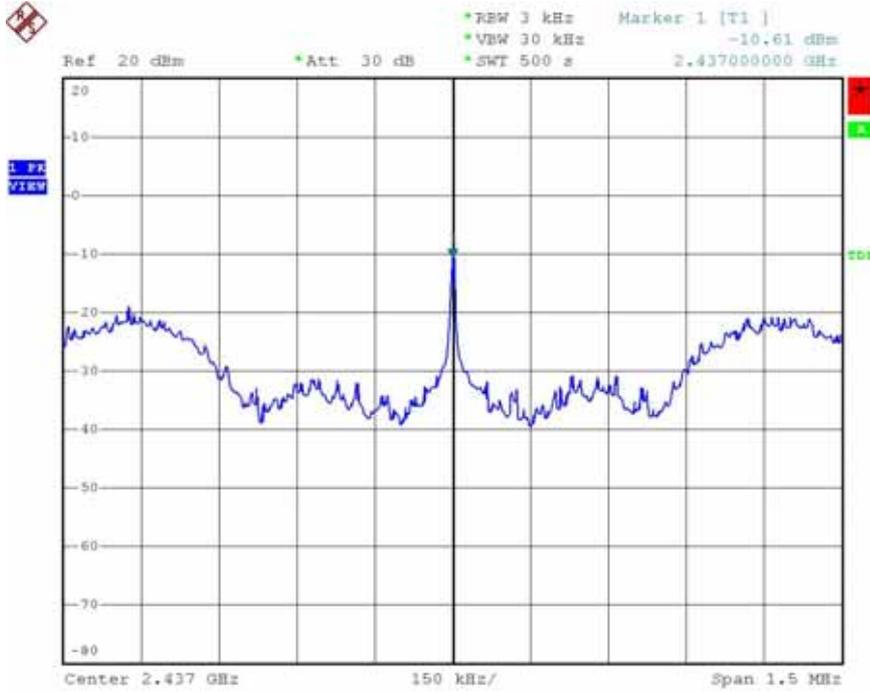
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Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
Channel: 03



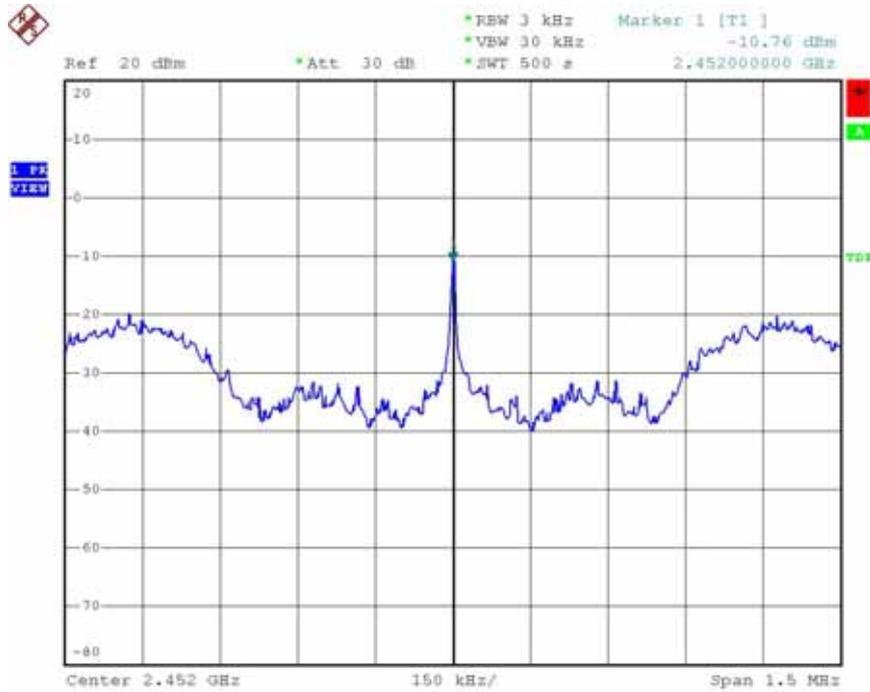
Date: 8.AUG.2008 17:52:19

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
Channel: 06



Date: 8.AUG.2008 18:02:52

Modulation Standard: 802.11n HT40 (13.5Mbps), ANT L
Channel: 09



Date: 8.AUG.2008 18:32:21

10. Restricted Bands of Operation

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

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

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

10.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

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