

FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart E

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

Laboratory accreditation



- The test result refers exclusively to the test presented test model / sample.,
- The test result does not include DFS test for 5250 ~ 5350 MHz.
- 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.

CONTENTS

1.	Report of Measurements and Examinations.....	5
1.1.	List of Measurements and Examinations	5
2.	Test Configuration of Equipment under Test.....	6
2.1.	Feature of Equipment under Test.....	6
2.2.	RF Specifications	6
2.3.	Test Mode and Test Software.....	7
2.4.	Description of Test System.....	8
2.5.	Carrier Frequency of Channels.....	8
2.6.	Connection Diagram of Test System.....	9
2.7.	General Information of Test.....	10
2.8.	History of this test report	11
3.	Antenna Requirements	12
3.1.	Standard Applicable	12
3.2.	Antenna Construction and Directional Gain.....	12
4.	Test of Conducted Emission	13
4.1.	Test Procedures	13
4.2.	Typical Test Setup Layout of Conducted Emission.....	14
4.3.	Conducted Emission Requirement	14
4.4.	Measurement equipment	14
4.5.	Test Result and Data.....	15
4.6.	Test Photographs	27
5.	Test of Radiated Emission	29
5.1.	Test Procedures	29
5.2.	Typical Test Setup Layout of Radiated Emission.....	30
5.3.	Measurement equipment	30
5.4.	Test Result of Radiated Emission	31
5.5.	Photographs of Radiated Emission Test.....	92
6.	Peak Transmit Power.....	94
6.1.	Test Procedure	94
6.2.	Test Setup Layout	94
6.3.	Measurement equipment	94
6.4.	Test Result and Data.....	94
7.	Peak Power Excursion.....	103
7.1.	Test Procedure	103
7.2.	Test Setup Layout	103
7.3.	Measurement equipment	103
7.4.	Test Result and Data.....	103
8.	Peak Power Spectral Density.....	112
8.1.	Test Procedure	112
8.2.	Test Setup Layout	112
8.3.	Measurement equipment	112
8.4.	Test Result and Data.....	112
9.	Frequency Stability.....	121
9.1.	Test Procedure	121
9.2.	Test Setup Layout	121
9.3.	Measurement equipment	121

9.4. Test Result and Data..... 122

10. Band Edges Measurement 125

 10.1. Test Procedure 125

 10.2. Measurement equipment 125

 10.3. Test Result and Data 125

 10.4. Restrict Band Emission Measurement Data 129

11. Restricted Bands of Operation..... 130

 11.1. Labeling Requirement..... 130

12. RF Exposure 131

 12.1. Limit for Maximum Permissible Exposure (MPE) 131

 12.2. MPE Calculations..... 132

 12.3. FCC Radiation Exposure Statement 132

Appendix A. Photographs of EUT.....A1 ~ A4

CERTIFICATE OF COMPLIANCE

according to

FCC Rules and Regulations

Part 15 Subpart E

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

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 E (2003)**.

The test was carried out on Dec. 12, 2007 at **Exclusive Certification Corp.**

Signature


Anson Chou / Manager

1. Report of Measurements and Examinations

1.1. List of Measurements and Examinations

For Frequency 5.15GHz ~ 5.25GHZ

Applied Standard : FCC Part 15, Subpart E (Section 15.407)		
FCC Rule	Description of Test	Result
15.407(b)(5)	. Conducted Emission	Pass
15.407(b/1/2/3)(b)(5)	. Radiated Emission	Pass
15.407(a/1/2/3)	. Peak Transmit Power	Pass
15.407(a)(6)	. Peak Power Excursion	Pass
15.407(a/1/2/3)	. Peak Power Spectral Density	Pass
15.407(g)	. Frequency Stability	Pass

2. Test Configuration of Equipment under Test

2.1. Feature of Equipment under Test

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

2.2. RF Specifications

Type of Modulation	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11a: OFDM (64-QAM, 16-QAM, QPSK, BPSK) 802.11n draft 2.0: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Data Rate	802.11b (11, 5.5, 2, 1 Mbps) 802.11g (54, 48, 36, 24, 18, 12, 9, 6 Mbps) 802.11a (54, 48, 36, 24, 18, 12, 9, 6 Mbps) 802.11n draft 2.0 (300, 246, 140, 108, 54, 48, 36, 24, 18, 12, 9, 6 Mbps)
Number of Channels	802.11b/g/n draft 2.0, 20MHz: USA, Canada and Taiwan: 1 ~ 11 CH (11channels) 802.11n draft 2.0, 40MHz: USA, Canada and Taiwan: 3 ~ 9 CH (7channels) 802.11a/n draft 2.0, 20MHz: USA, Canada: 36 ~ 48 CH (4 channels), 149 ~ 165 CH (5 channels) 802.11n draft 2.0, 40MHz: USA, Canada: 38 ~ 46 CH (3 channels) 151 ~ 159 CH (3 channels)
Frequency Band	2412 ~ 2462 MHz, 5150 ~ 5250 MHz, 5725 ~ 5825 MHz
Output Power	802.11b: 22.4 dBm, 802.11g: 21.4 dBm, 802.11n draft 2.0(2.4GHz): 21.4 dBm, 802.11a: 21.9 dBm, 802.11n draft 2.0(5GHz): 21.9 dBm
Antenna Type	Printing Antenna
Antenna Gain	Antenna 1: 3.4 dBi, Antenna 2: 2.6 dBi

2.3. Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included IBM PC, Monitor, PS2 Keyboard, USB Mouse, Modem, Printer and EUT for EMI test. The remote workstation means TOSHIBA Notebook.
- c. An executive program, EMITEST.EXE under WIN XP, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The program was executed as follows:

1. Turn on the power of all equipment.
 2. The PC reads the test program from the hard disk drive and runs it.
 3. The PC sends "H" messages to the monitor, and the monitor displays "H" patterns on the screen.
 4. The PC sends "H" messages to the internal Hard Disk, and the Hard Disk reads and writes the message.
 5. The PC sends "H" messages to the modem.
 6. The PC sends "H" messages to the printer.
 7. Repeat the steps from 2 to 6.
- d. An executive program, art.exe under WIN XP, which generates a continuous signal by the following frequency to test.
 - 802.11a
CH36: 5180MHz, CH44: 5220MHz, CH48: 5240MHz
 - 802.11n draft 2.0, 20MHz
CH36: 5180MHz, CH44: 5220MHz, CH48: 5240MHz
 - 802.11n draft 2.0, 40MHz
CH38: 5190MHz, CH42: 5210MHz, CH46: 5230MHz
 - e. For Radiated emission, the following test mode included two kinds of test:
 - Test Mode 1: Without USB cable.
 - Test Mode 2: With USB cable.

Notes: The device will automatically discontinue transmission, when the transmitting or operating stop.

2.4. Description of Test System

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

Use Cable:

Cable	Description
USB*1	Shielding, 1.6m

2.5. Carrier Frequency of Channels

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

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

802.11n draft 2.0, 40MHz (2412 ~ 2462MHz)

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

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

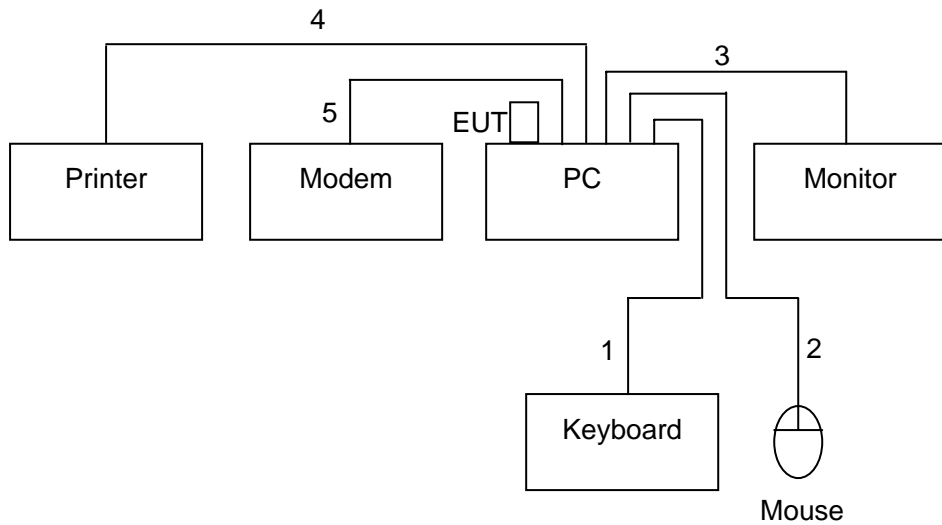
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
---	---	165	5825

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

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

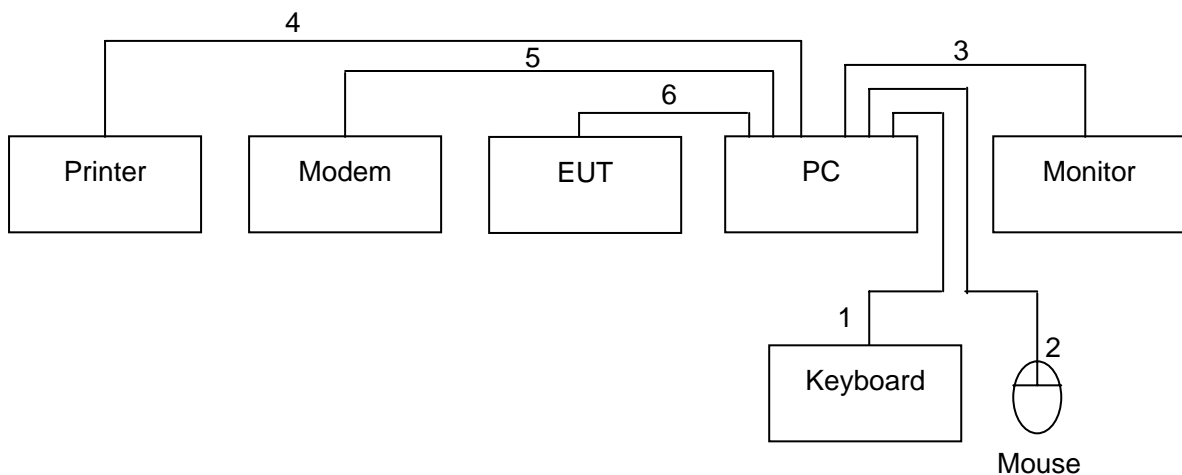
2.6. Connection Diagram of Test System

Test Mode 1:



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

Test Mode 2:



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

2.7. General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei City 223, Taiwan, R.O.C.
FCC Registration Number :	632249
IC Registration Number :	6597A-1
VCCI Registration Number :	T-182 for Telecommunication Test C-2188 for Conducted emission test R-1902 for Radiated emission test
Test Voltage:	AC 120V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart E
Frequency Range Investigated:	AC Power Conducted Emission : from 150kHz to 30 MHz Radiated and conducted Emission: from 30 MHz to 40 GHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

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 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

3.2. Antenna Construction and Directional Gain

Antenna 1:

Antenna type: Printing Antenna

Antenna Gain: 3.4 dBi.

Antenna 2:

Antenna type: Printing Antenna

Antenna Gain: 2.6 dBi.

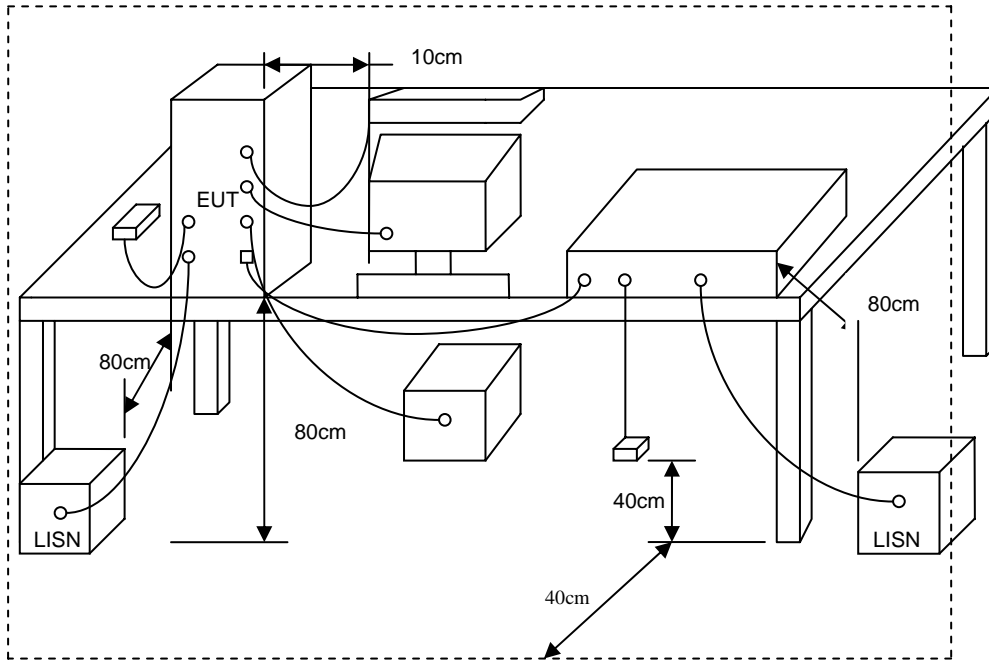
4. Test of Conducted Emission

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 1.3.1. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

4.1. 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.

4.2. Typical Test Setup Layout of Conducted Emission



4.3. Conducted Emission Requirement

Except for A digital devices, for equipment that is designed to be connected to the public utility (AC) power line on any frequency voltage that is conducted back onto the AC power line on ant frequency or frequencies within the band 150KHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50 ohms line impeddance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the Radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

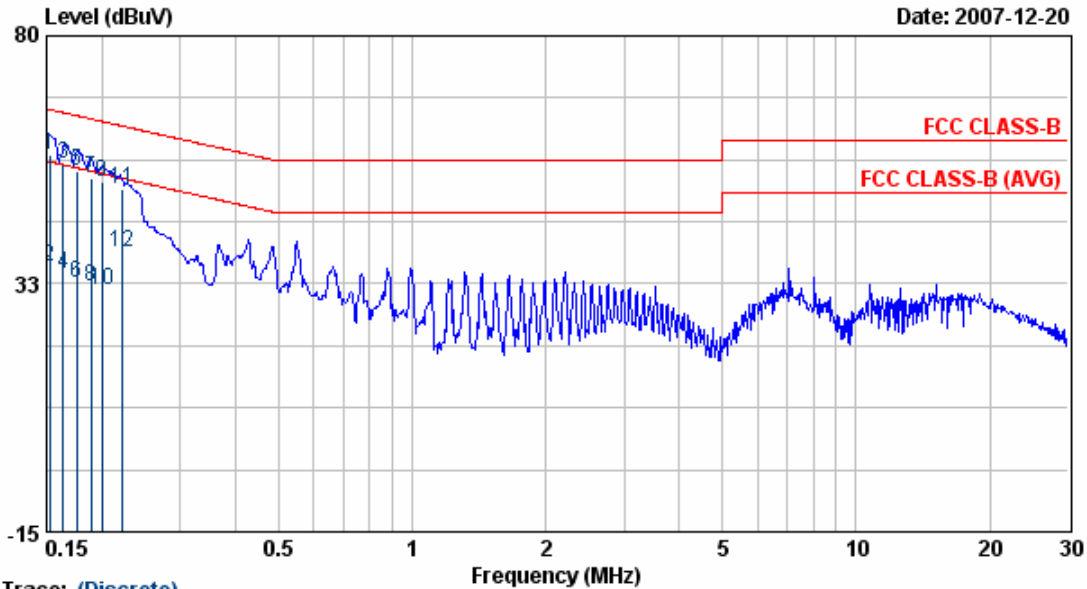
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

4.4. Measurement equipment

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

4.5. Test Result and Data

Power	: DC 5V form PC	Pol/Phase	: LINE
Test Mode 1	: 802.11a CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %

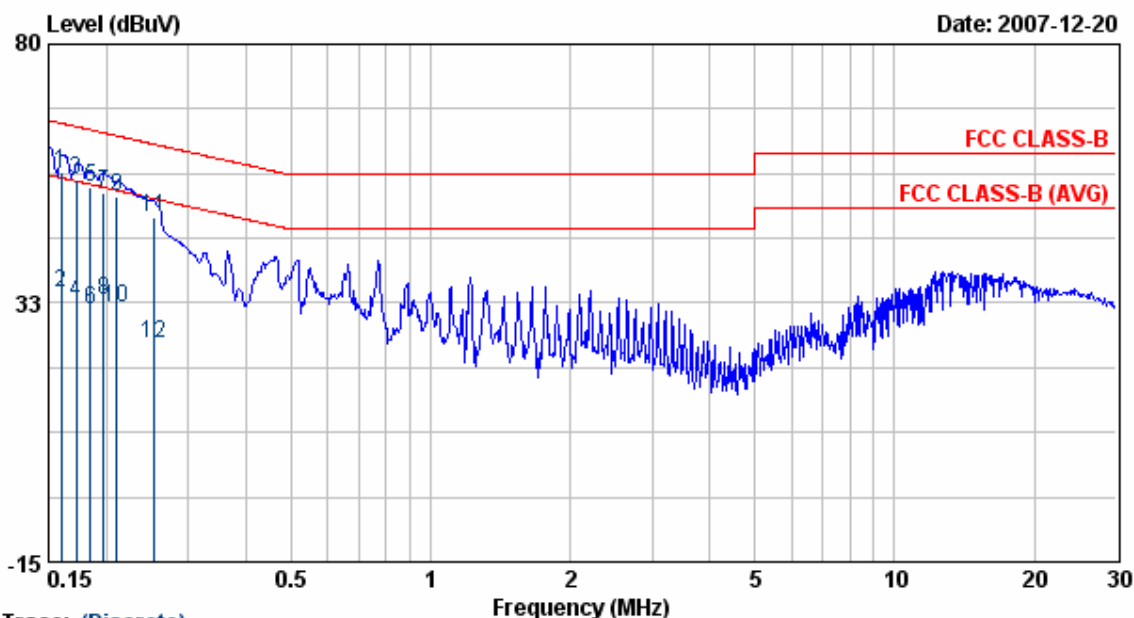


Trace: (Discrete)

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

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 36, 44, 48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11a CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %

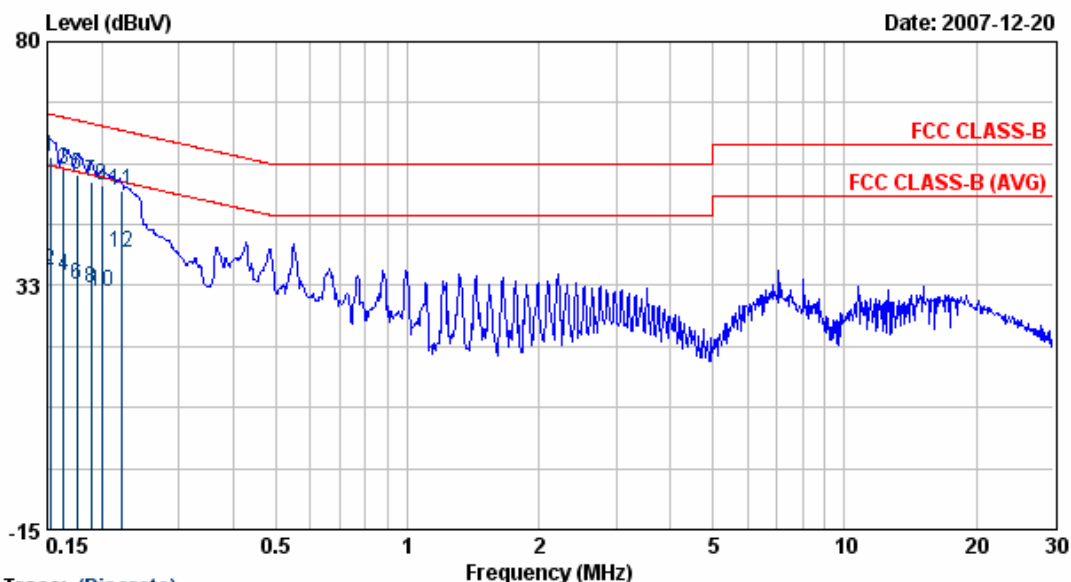


Trace: (Discrete)

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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 36, 44, 48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: LINE
Test Mode 1	: 802.11n draft 2.0, 20MHz CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %



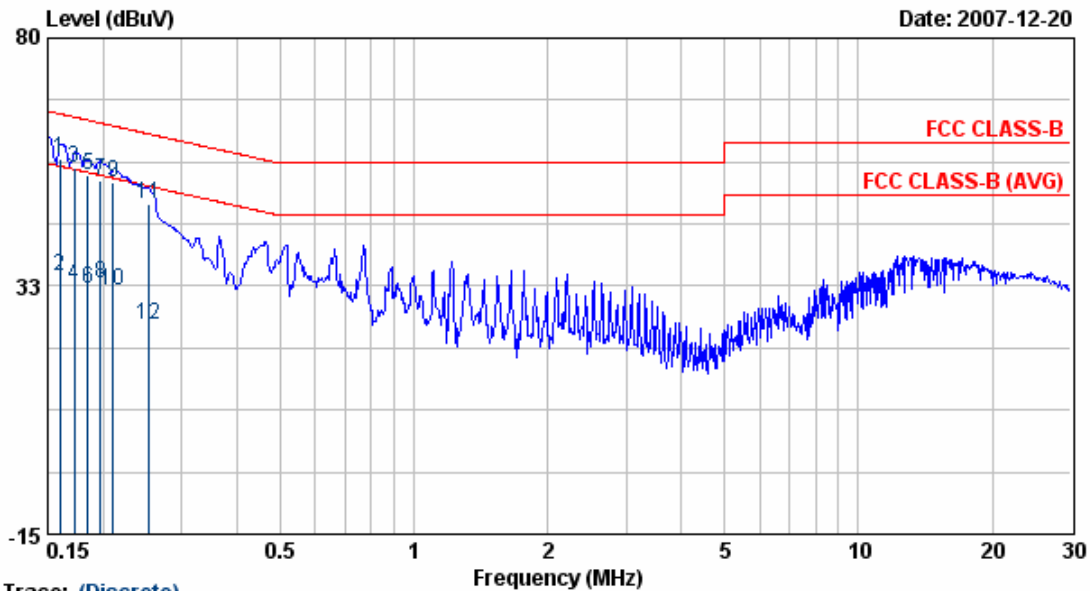
Trace: (Discrete)

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

Remarks:

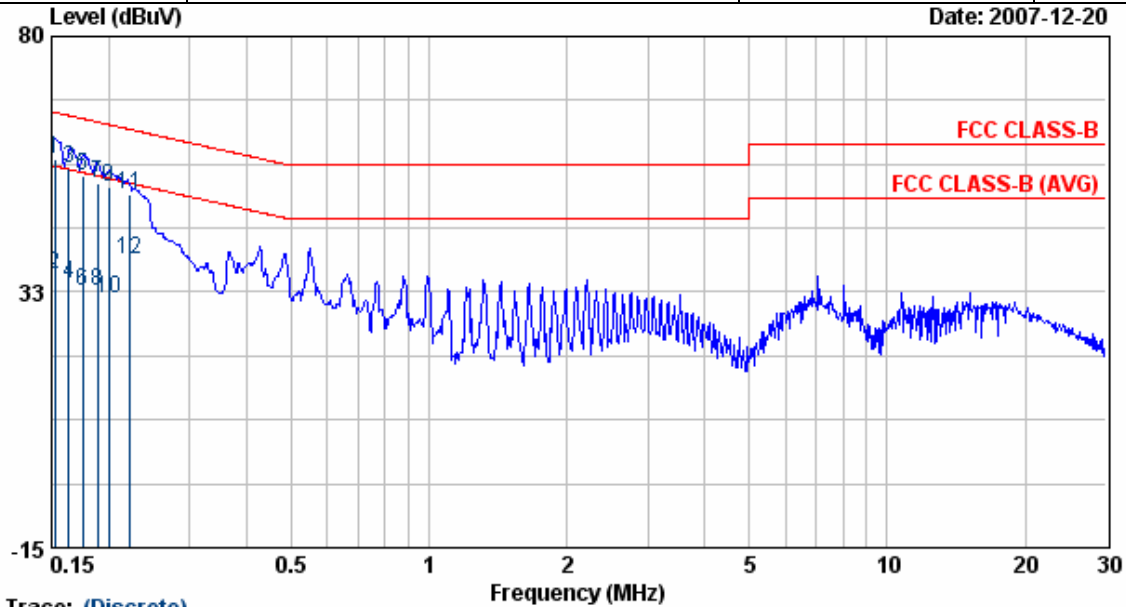
1. Level = Read Level + Factor
2. Factor = LISN(ISN) Factor + Cable Loss
3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n draft 2.0, 20MHz CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %



- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 4. The data is worse case.

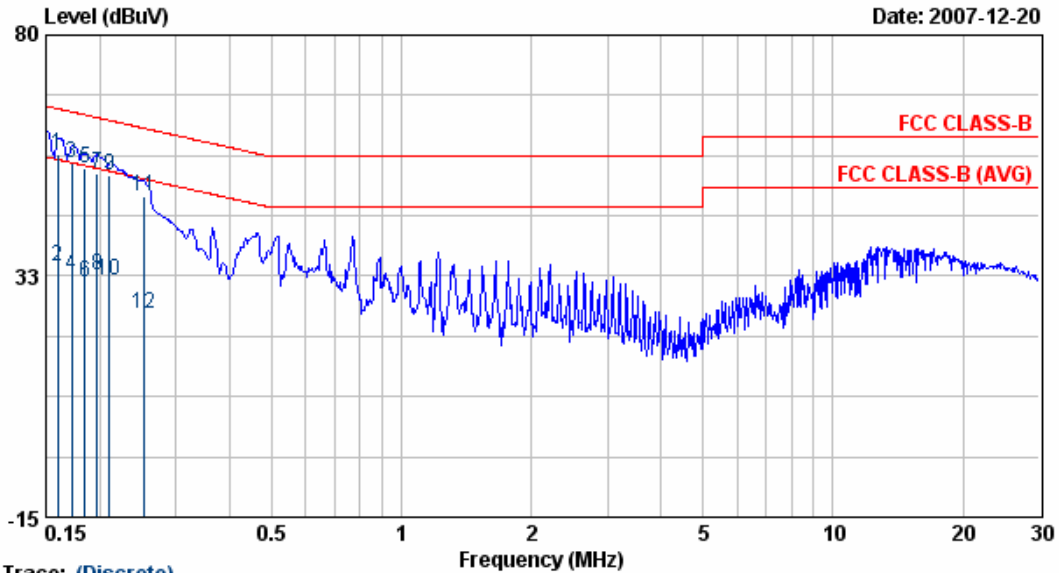
Power	: DC 5V form PC	Pol/Phase	: LINE
Test Mode 1	: 802.11n draft 2.0, 40MHz CH38	Temperature	: 24 °C
Memo	:	Humidity	: 60 %



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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
 4. The data is worse case.

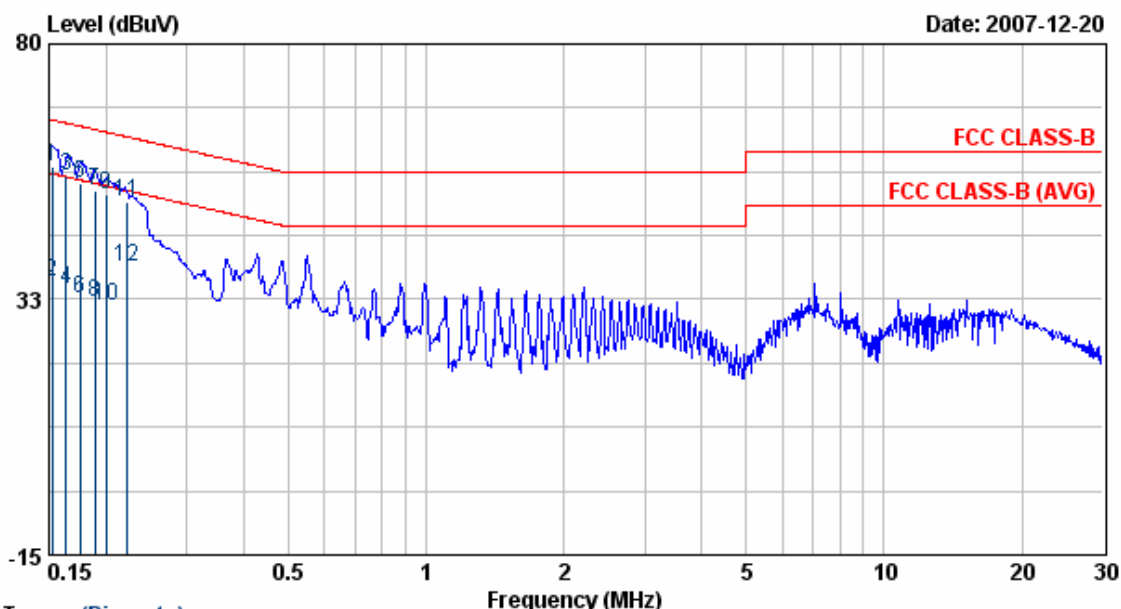
Power	: DC 5V form PC	Pol/Phase	: NEUTRAL
Test Mode 1	: 802.11n draft 2.0, 40MHz CH38	Temperature	: 24 °C
Memo	:	Humidity	: 60 %



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

Remarks: 1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: LINE
Test Mode 2	: 802.11a CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %

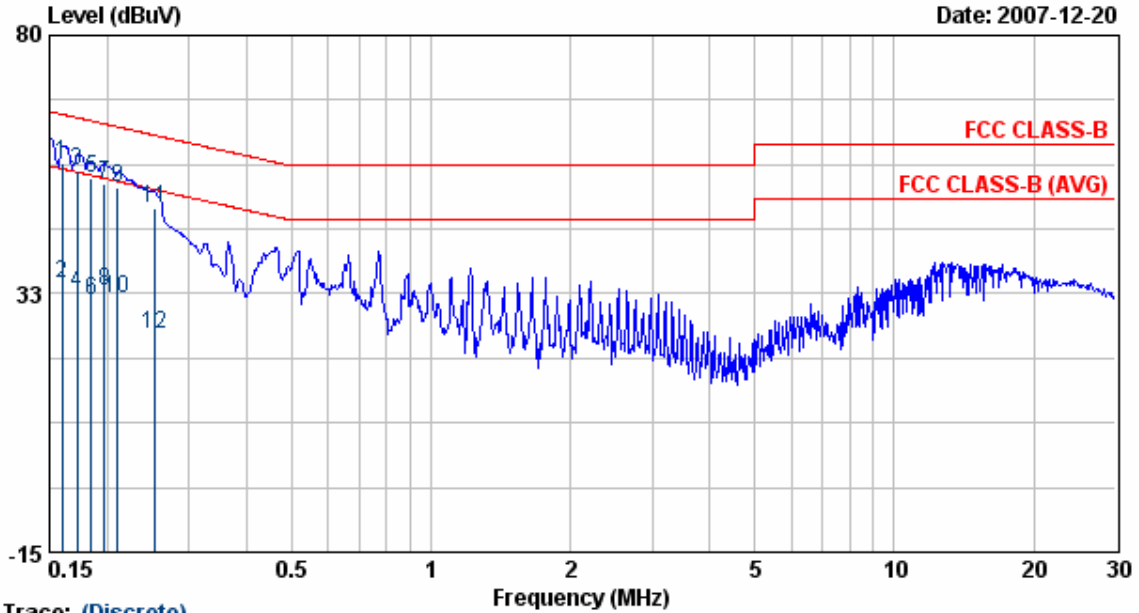


Trace: (Discrete)

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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 36, 44, 48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11a CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %

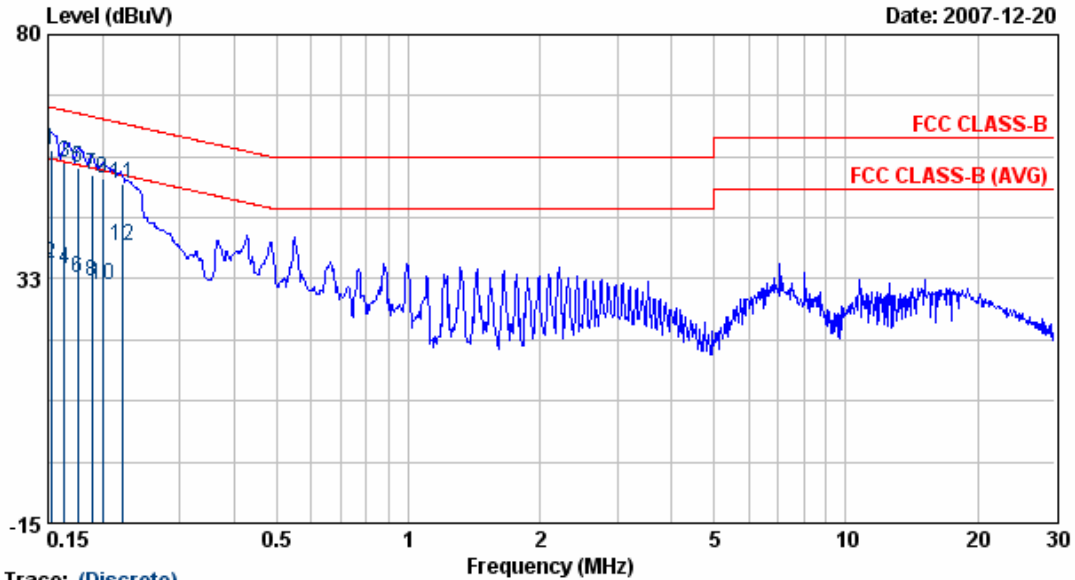


Trace: (Discrete)

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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11a mode at channel 36, 44, 48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: LINE
Test Mode 2	: 802.11n draft 2.0, 20MHz CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %

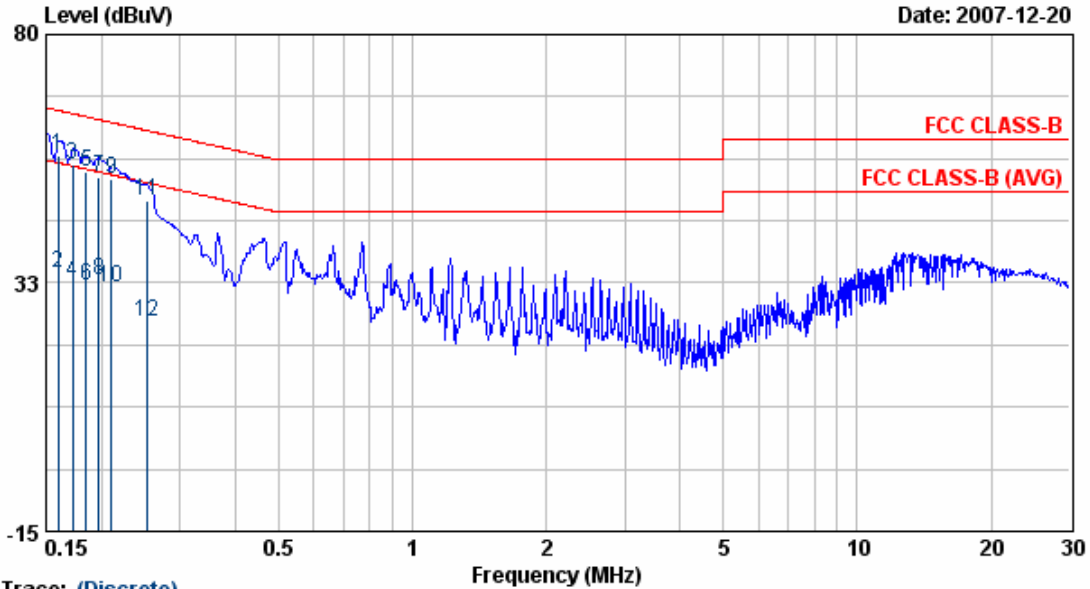


Trace: (Discrete)

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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n draft 2.0, 20MHz CH36	Temperature	: 24 °C
Memo	:	Humidity	: 60 %

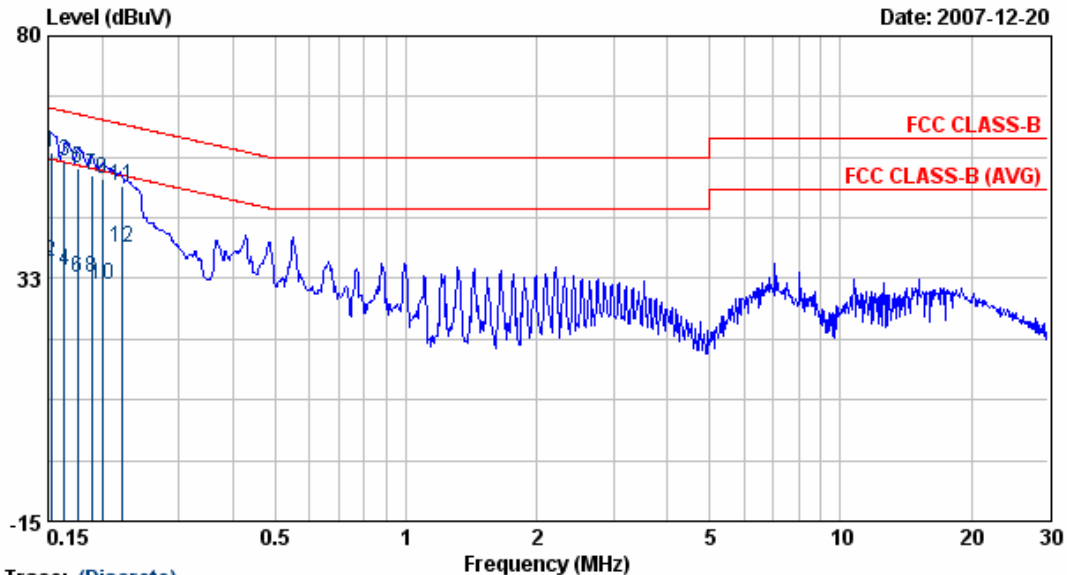


Trace: (Discrete)

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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: LINE
Test Mode 2	: 802.11n draft 2.0, 40MHz CH38	Temperature	: 24 °C
Memo	:	Humidity	: 60 %

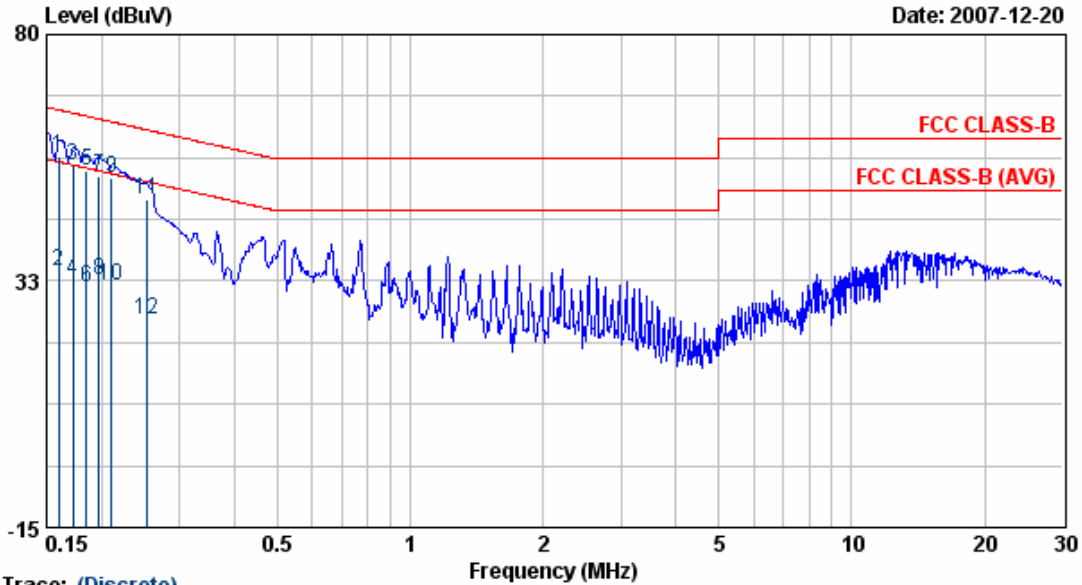


Trace: (Discrete)

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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38, 42, 46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
 4. The data is worse case.

Power	: DC 5V form PC	Pol/Phase	: NEUTRAL
Test Mode 2	: 802.11n draft 2.0, 40MHz CH38	Temperature	: 24 °C
Memo	:	Humidity	: 60 %



Trace: (Discrete)

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

- Remarks:
1. Level = Read Level + Factor
 2. Factor = LISN(ISN) Factor + Cable Loss
 3. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
 4. The data is worse case.

Test engineer: Ben

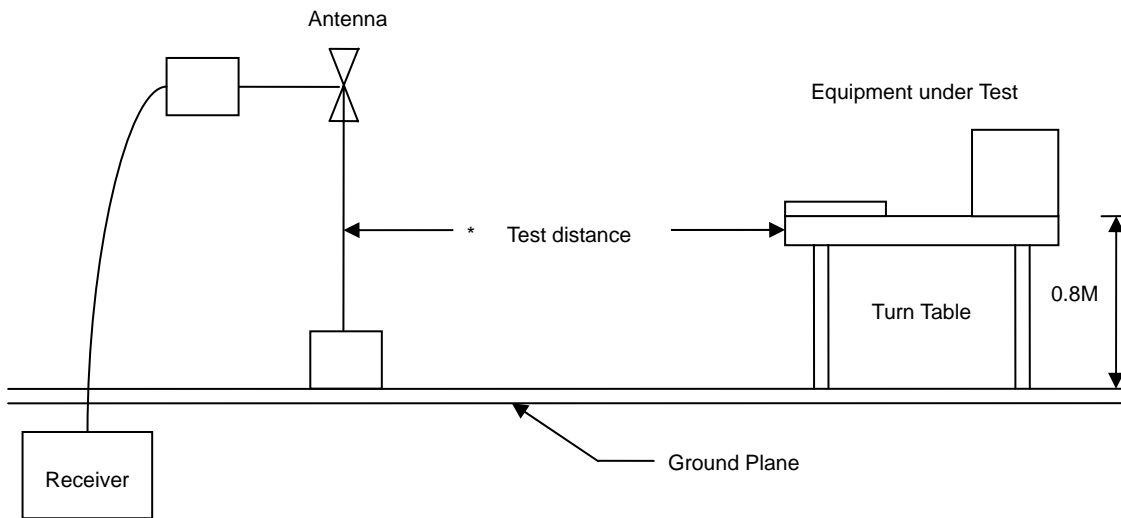
5. Test of Radiated Emission

Radiated emissions from 30 MHz to 40 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 1.4.2. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions

5.1. Test Procedures

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

5.2. Typical Test Setup Layout of Radiated Emission

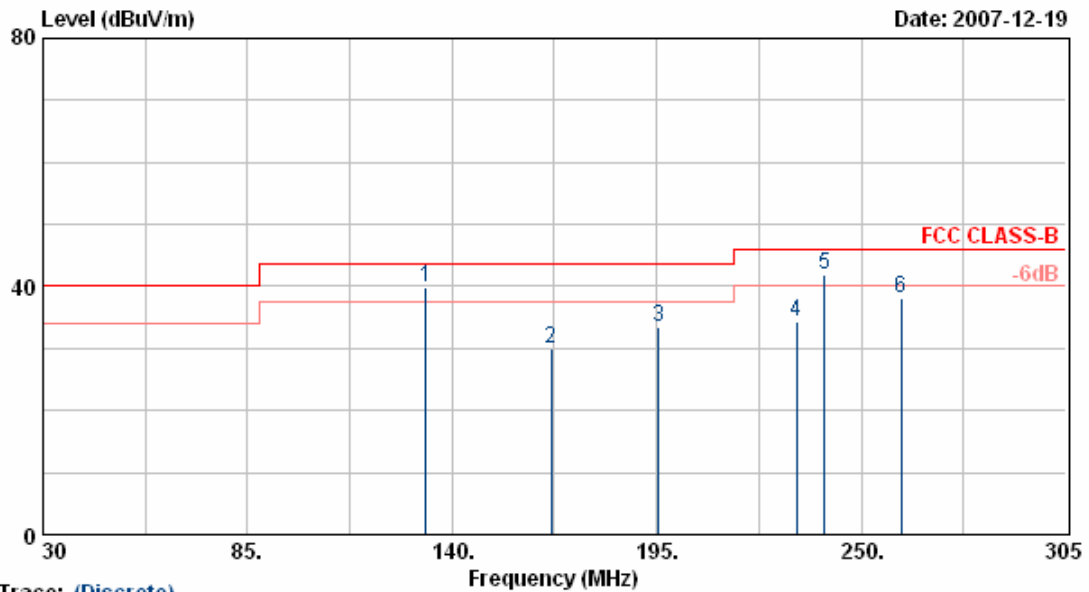


5.3. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	85460A	HP	3807A00454	2007/06/05	2008/06/04
Spectrum Analyzer	FSP40	R&S	10047	2007/01/23	2008/01/22
Horn Antenna	3115	EMCO	31589	2007/03/05	2008/03/04
Horn Antenna	3116	EMCO	31970	2007/03/06	2008/03/05
Bilog Antenna	CBL6112B	Schaffner	2840	2007/04/26	2008/04/25
Amplifier	8449B	Agilent	3008A01954	2007/01/12	2008/01/11
Amplifier	8447D	Agilent	2944A10531	2007/09/26	2008/09/25
Amplifier	PA-840	Com-Power	711885	2007/08/28	2008/08/27

5.4. Test Result of Radiated Emission

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps



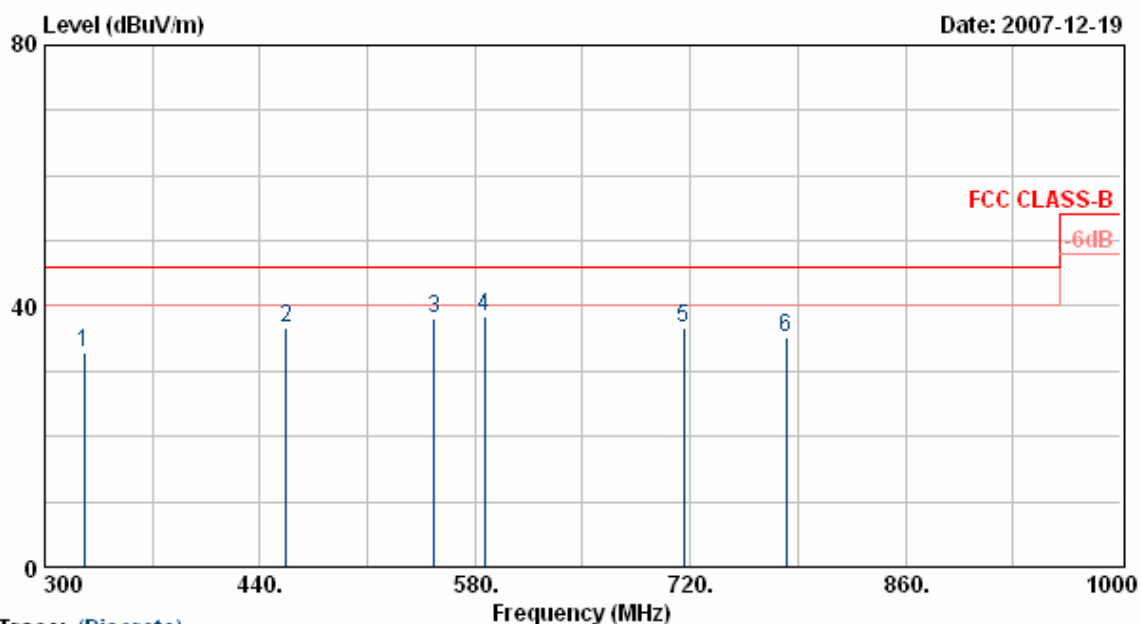
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.68	-12.97	39.71	43.50	-3.79	QP	100	44
2	166.68	44.45	-14.41	30.05	43.50	-13.45	Peak	100	147
3	195.55	46.52	-13.01	33.52	43.50	-9.98	Peak	100	145
4	232.68	46.67	-12.38	34.29	46.00	-11.71	Peak	100	167
5	240.10	54.70	-12.70	42.00	46.00	-4.00	QP	100	166
6	260.73	49.34	-11.17	38.17	46.00	-7.83	Peak	150	111

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps



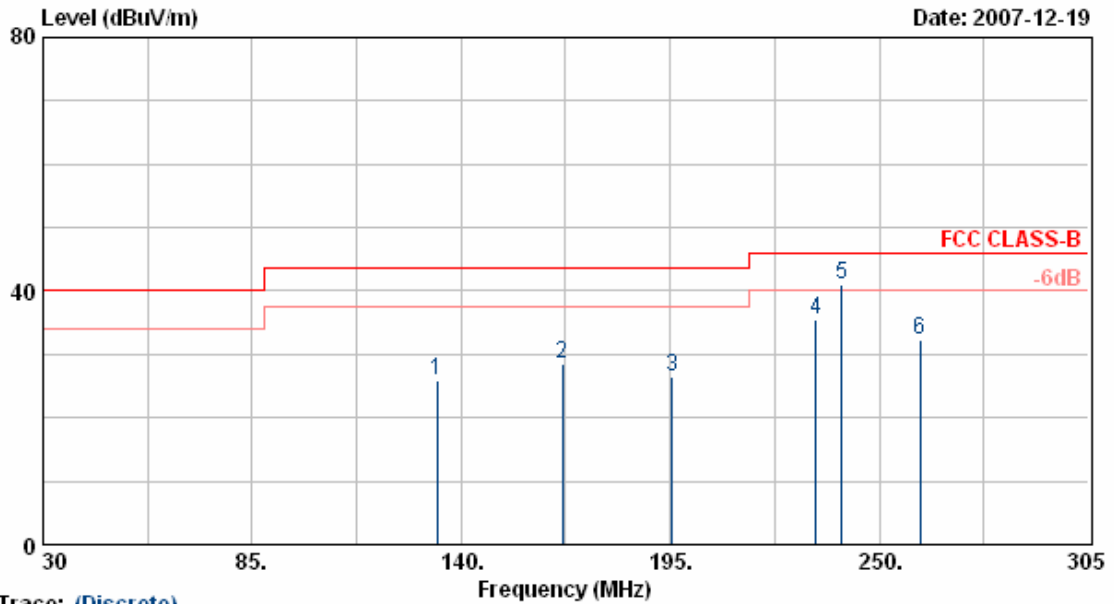
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.56	-11.71	32.84	46.00	-13.16	Peak	100	199
2	456.80	44.47	-7.80	36.67	46.00	-9.33	Peak	100	137
3	553.40	42.90	-4.85	38.04	46.00	-7.96	Peak	100	117
4	586.30	48.14	-9.73	38.41	46.00	-7.59	Peak	100	211
5	715.80	41.66	-5.03	36.63	46.00	-9.37	Peak	100	136
6	782.30	39.53	-4.31	35.22	46.00	-10.78	Peak	100	110

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps



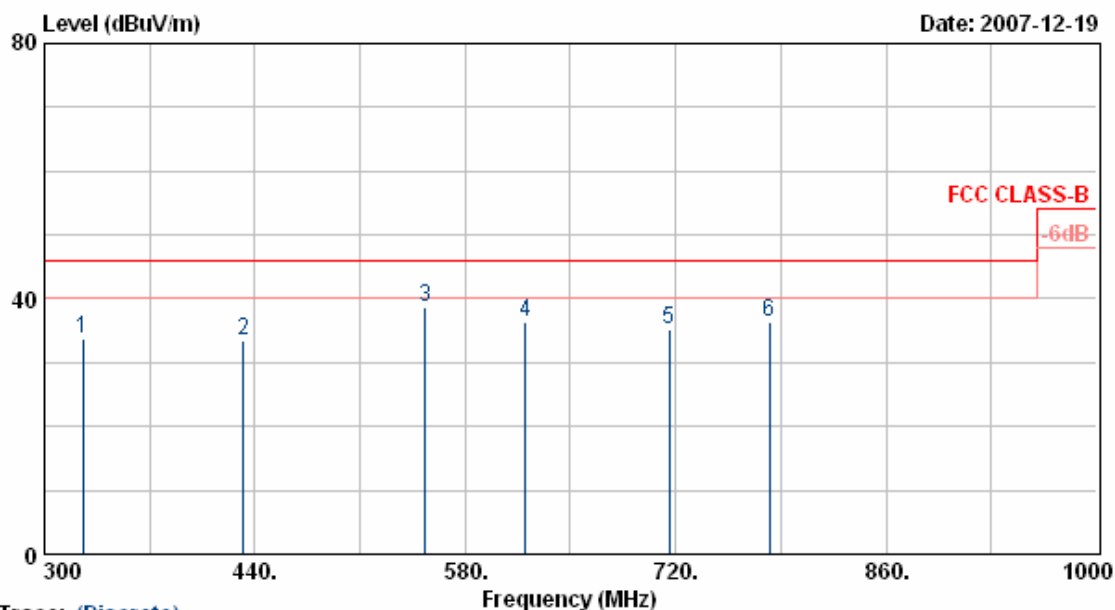
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV/m	dB		cm	Deg
1	133.68	45.46	-19.48	25.98	43.50	-17.52	Peak	100	127
2	166.68	48.57	-20.20	28.37	43.50	-15.13	Peak	100	117
3	195.55	46.10	-19.74	26.36	43.50	-17.14	Peak	100	217
4	233.23	52.46	-16.87	35.60	46.00	-10.40	Peak	100	138
5	240.10	58.87	-17.80	41.07	46.00	-4.93	QP	100	167
6	260.73	46.90	-14.47	32.43	46.00	-13.57	Peak	100	197

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps

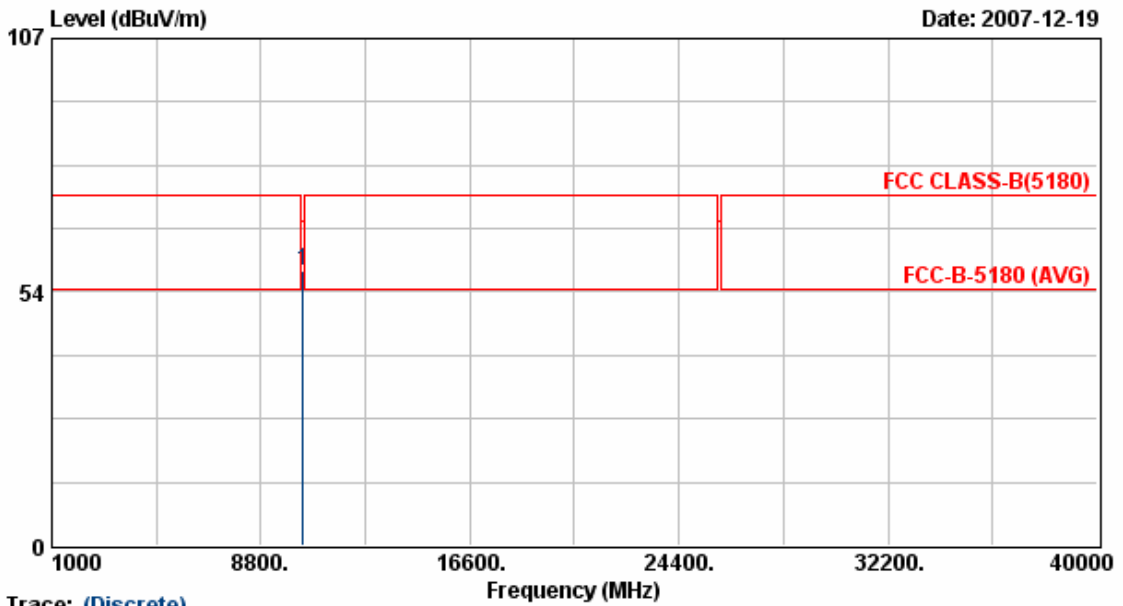


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.57	-13.72	33.85	46.00	-12.15	Peak	100	217
2	432.30	41.44	-7.88	33.55	46.00	-12.45	Peak	100	211
3	553.40	42.67	-4.03	38.64	46.00	-7.36	Peak	100	211
4	619.90	40.64	-4.41	36.22	46.00	-9.78	Peak	100	114
5	715.80	43.41	-8.16	35.25	46.00	-10.75	Peak	100	164
6	782.30	41.94	-5.58	36.35	46.00	-9.65	Peak	100	41

- Notes:
1. Result = Read Value + Factor
 2. Factor = Antenna Factor + Cable Loss - Amplifier
 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
 4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
 5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps

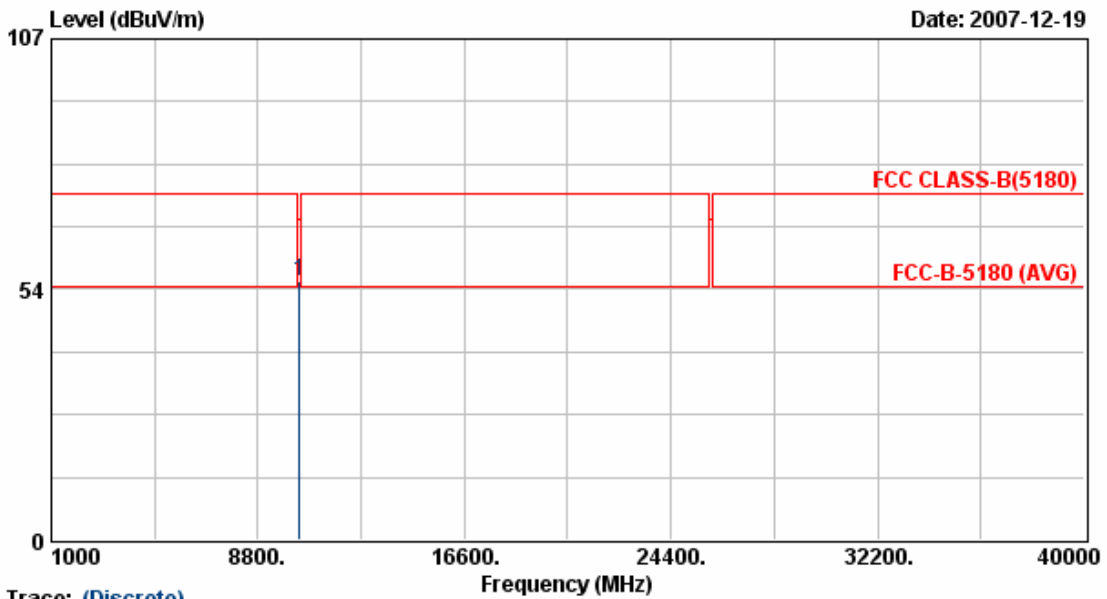


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10358.00	44.83	13.13	57.96	68.30	-10.34	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



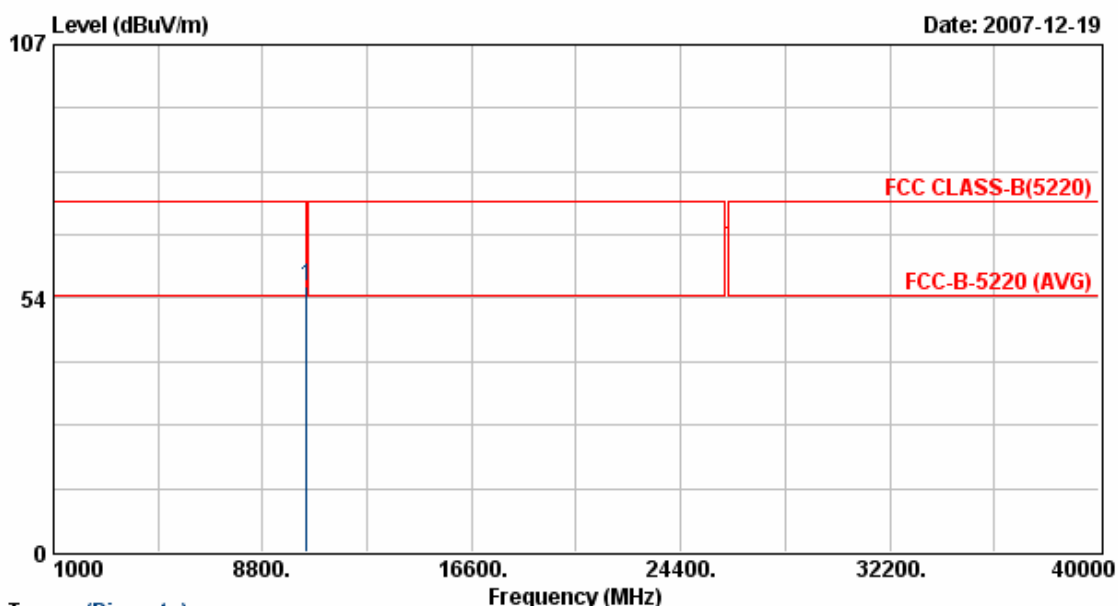
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10360.13	42.26	13.13	55.39	68.30	-12.91	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



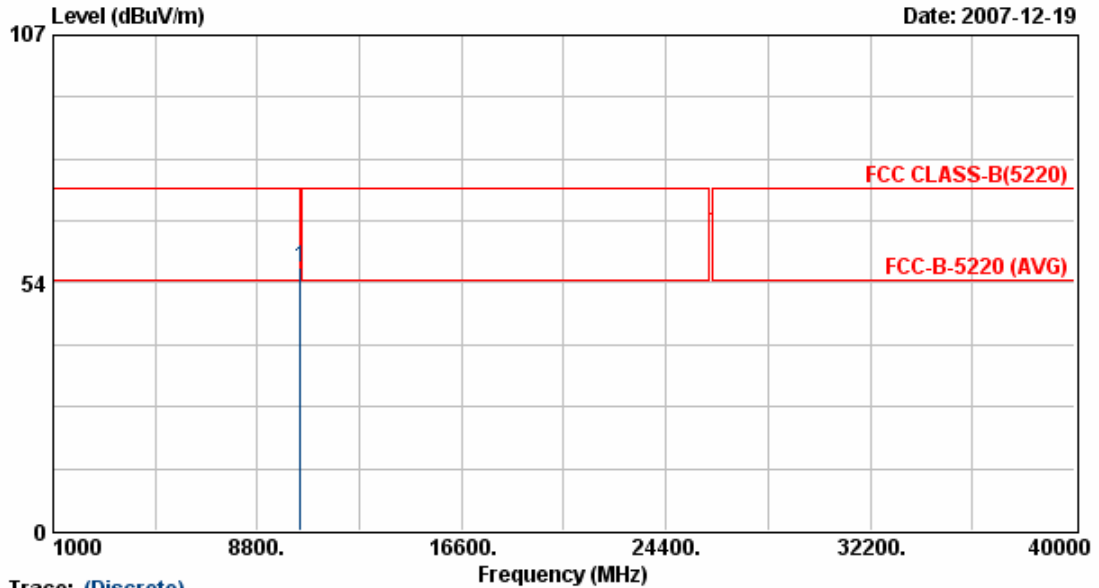
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.13	42.73	13.23	55.95	68.30	-12.35	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



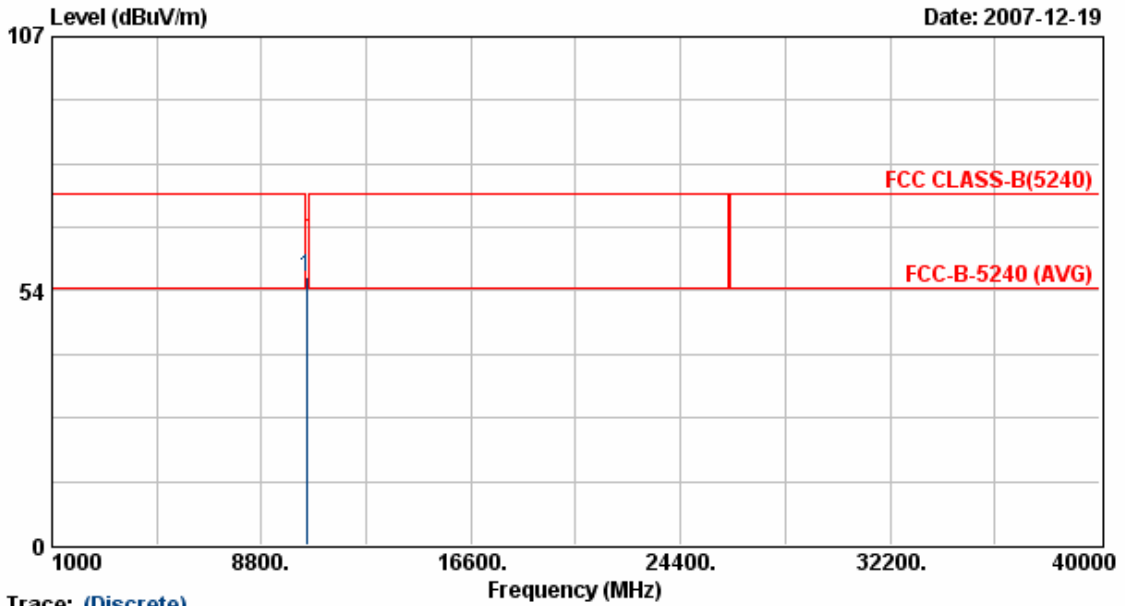
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.63	43.56	13.23	56.79	68.30	-11.51	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



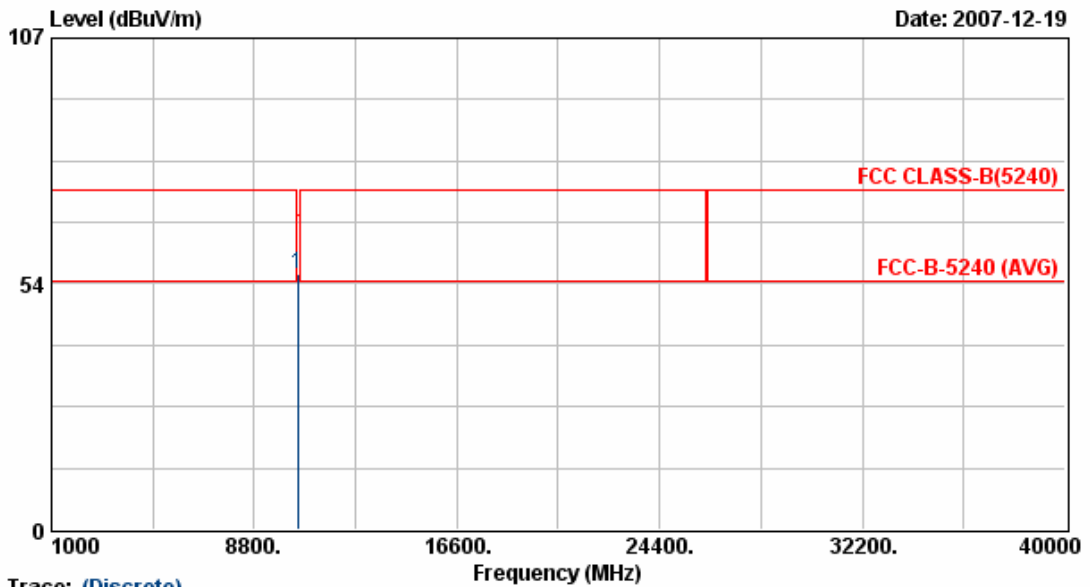
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10479.63	43.12	13.28	56.39	68.30	-11.91	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



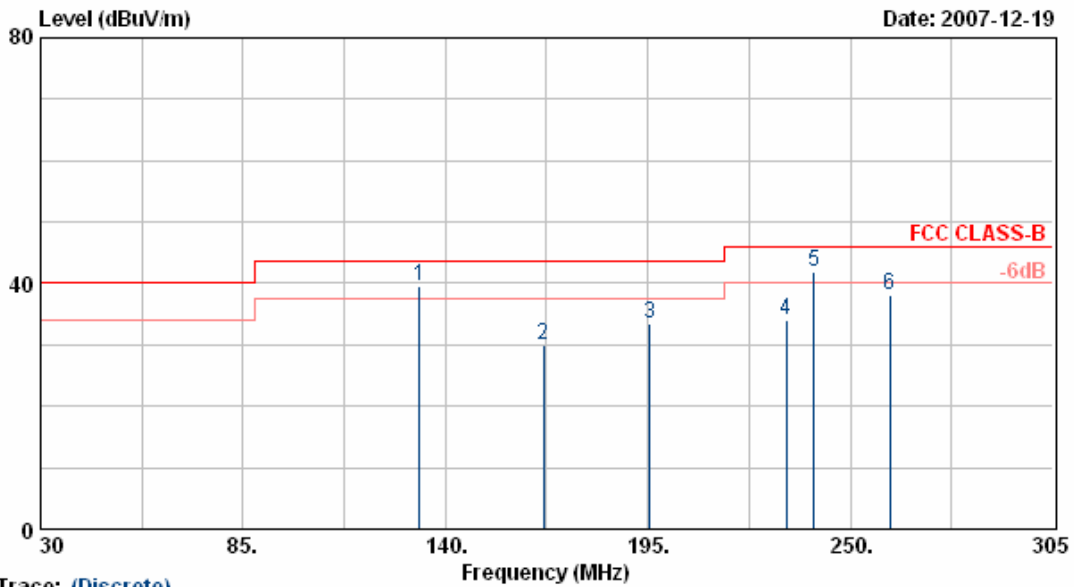
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10480.00	42.23	13.28	55.51	68.30	-12.79	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



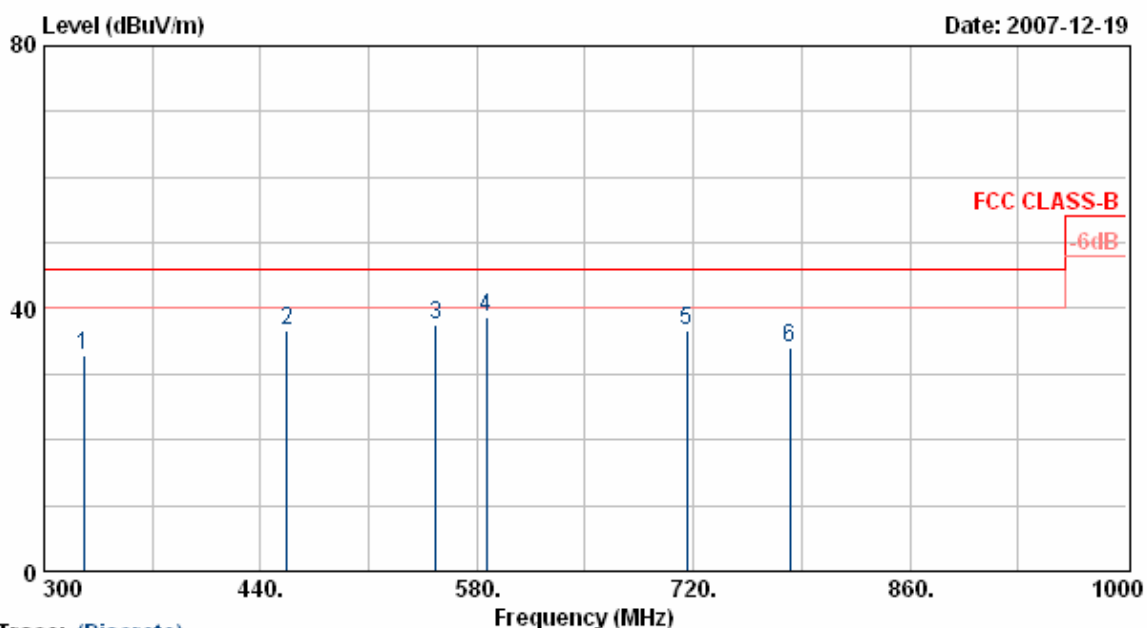
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.42	-12.97	39.45	43.50	-4.05	QP	100	44
2	166.68	44.36	-14.41	29.96	43.50	-13.54	Peak	100	147
3	195.55	46.33	-13.01	33.33	43.50	-10.17	Peak	100	145
4	232.68	46.49	-12.38	34.11	46.00	-11.89	Peak	100	167
5	240.10	54.58	-12.70	41.88	46.00	-4.12	QP	100	166
6	260.73	49.37	-11.17	38.20	46.00	-7.80	Peak	150	111

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



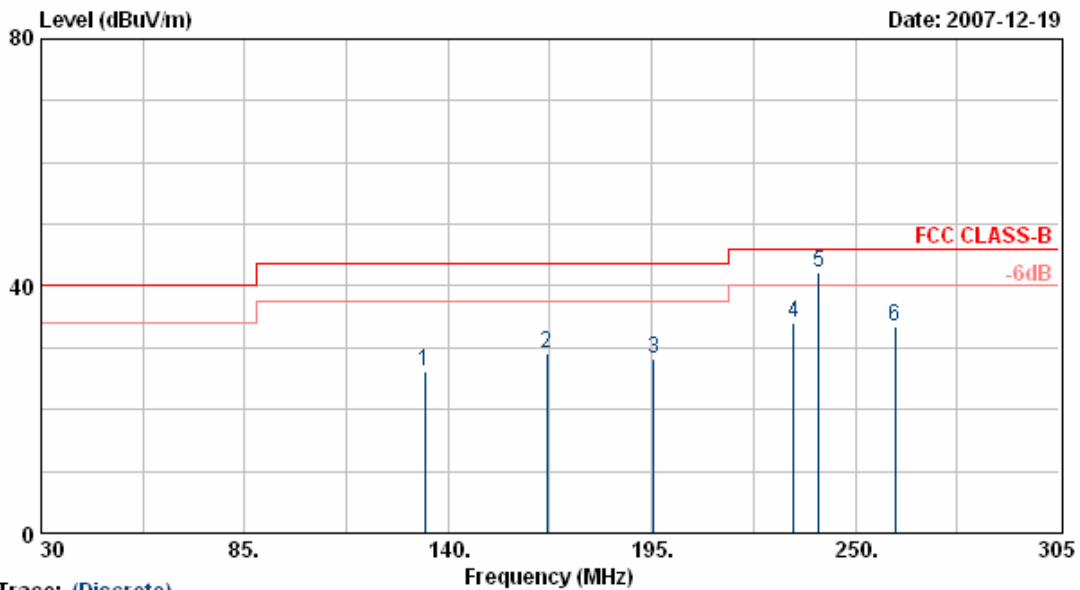
Trace: (Discrete)

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	325.90	44.56	-11.71	32.84	46.00	-13.16	Peak	100	199
2	456.80	44.57	-7.80	36.77	46.00	-9.23	Peak	100	137
3	553.40	42.52	-4.85	37.66	46.00	-8.34	Peak	100	117
4	586.30	48.38	-9.73	38.65	46.00	-7.35	Peak	100	211
5	715.80	41.56	-5.03	36.53	46.00	-9.47	Peak	100	136
6	782.30	38.49	-4.31	34.18	46.00	-11.82	Peak	100	110

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



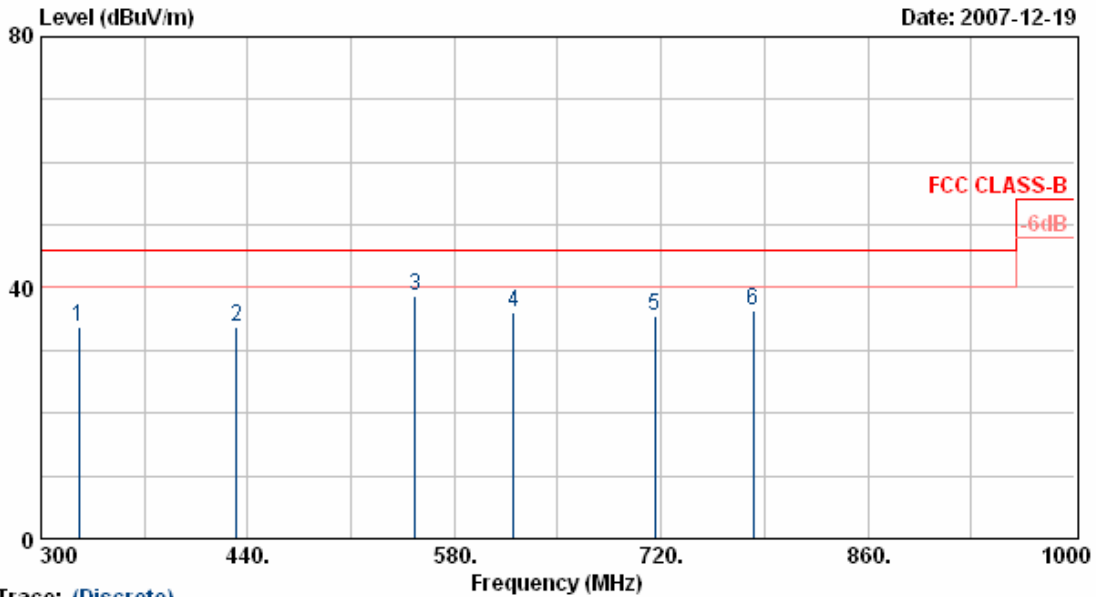
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.57	-19.48	26.09	43.50	-17.41	Peak	100	127
2	166.68	49.30	-20.20	29.10	43.50	-14.40	Peak	100	117
3	195.55	48.10	-19.74	28.36	43.50	-15.14	Peak	100	217
4	233.23	50.78	-16.87	33.92	46.00	-12.08	Peak	100	138
5	240.10	59.88	-17.80	42.08	46.00	-3.92	QP	100	167
6	260.73	47.88	-14.47	33.41	46.00	-12.59	Peak	100	197

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



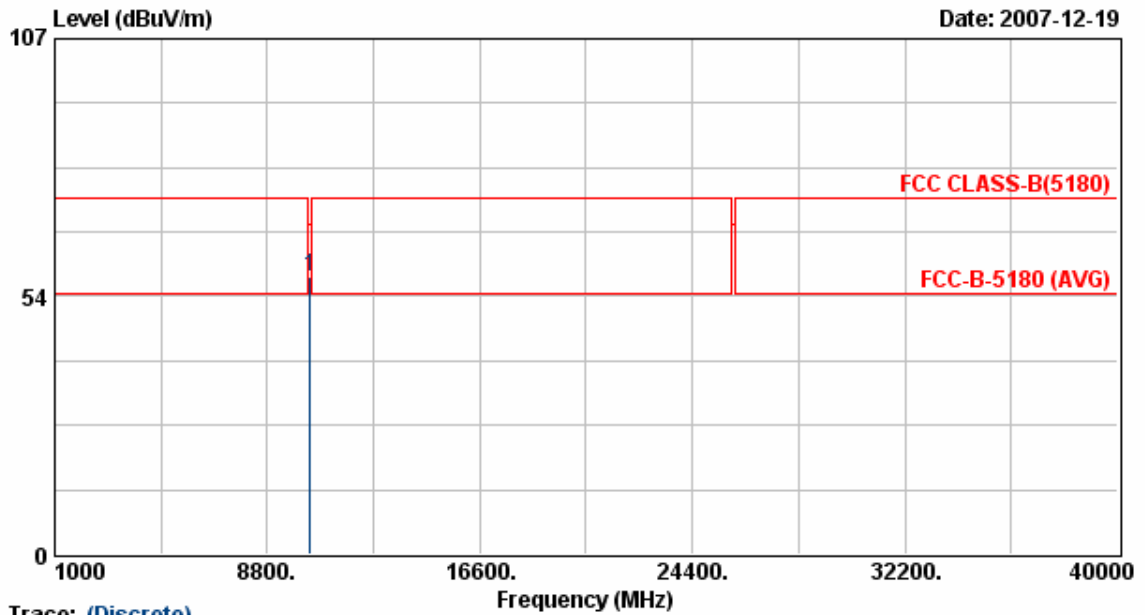
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.59	-13.72	33.87	46.00	-12.13	Peak	100	217
2	432.30	41.55	-7.88	33.67	46.00	-12.33	Peak	100	211
3	553.40	42.65	-4.03	38.62	46.00	-7.38	Peak	100	211
4	619.90	40.42	-4.41	36.00	46.00	-10.00	Peak	100	114
5	715.80	43.66	-8.16	35.50	46.00	-10.50	Peak	100	164
6	782.30	41.99	-5.58	36.40	46.00	-9.60	Peak	100	41

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



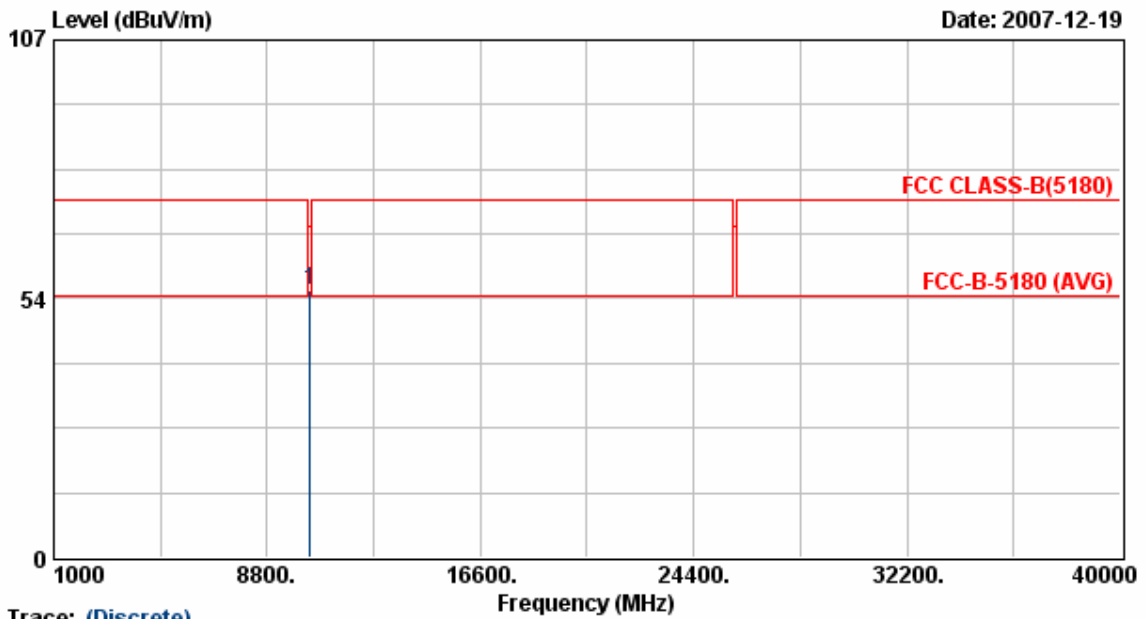
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10358.00	44.56	13.13	57.69	68.30	-10.61	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps

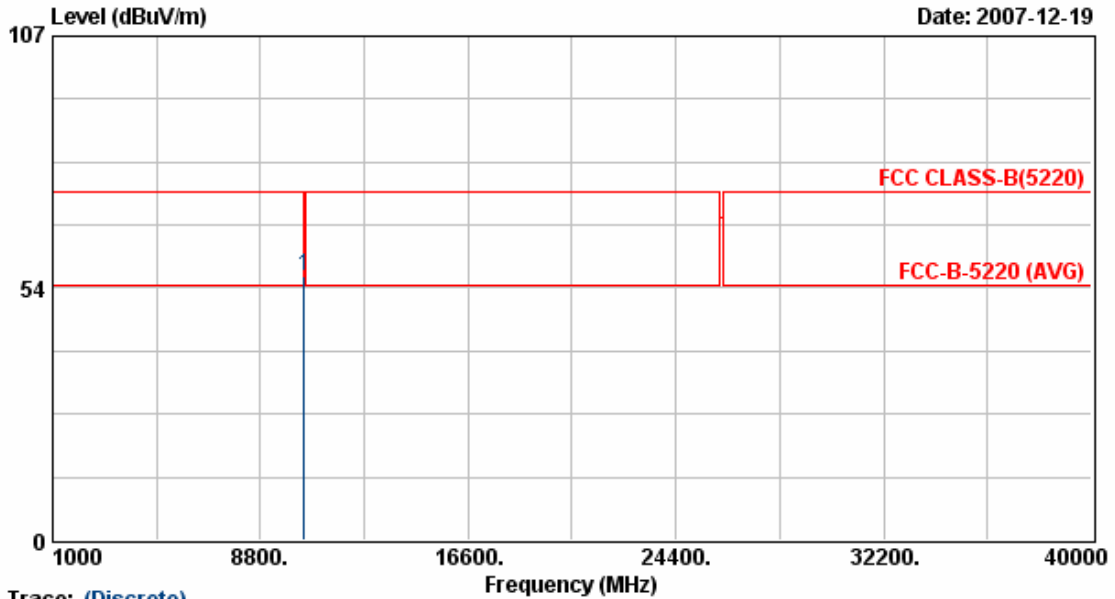


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10360.13	42.06	13.13	55.19	68.30	-13.11	Peak	100	201

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



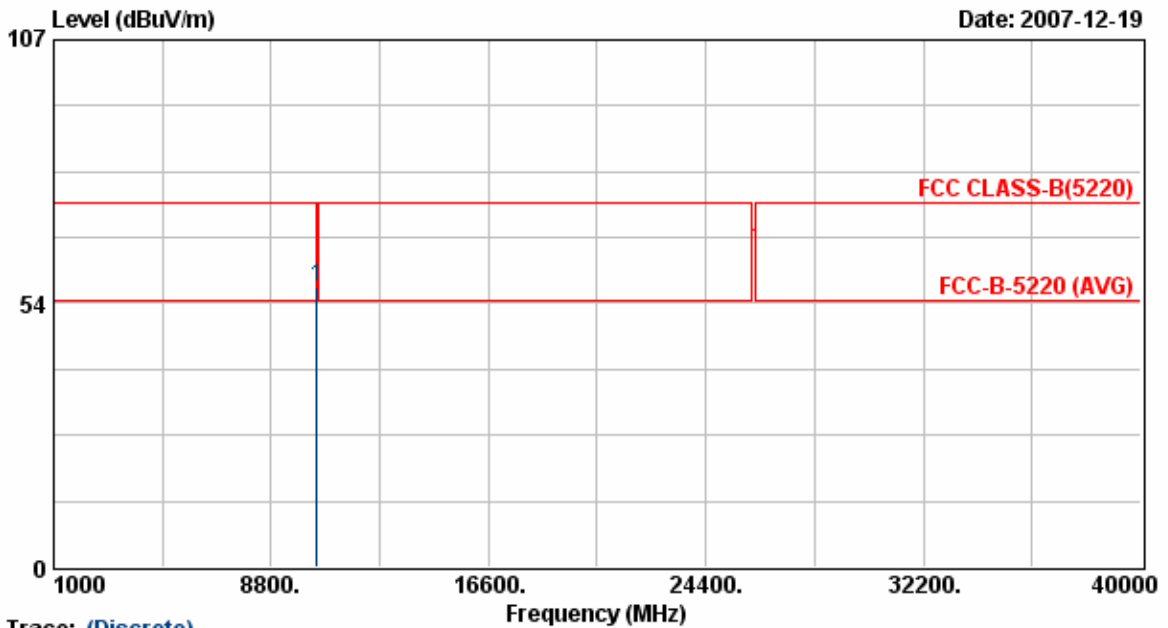
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.13	42.77	13.23	56.00	68.30	-12.30	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



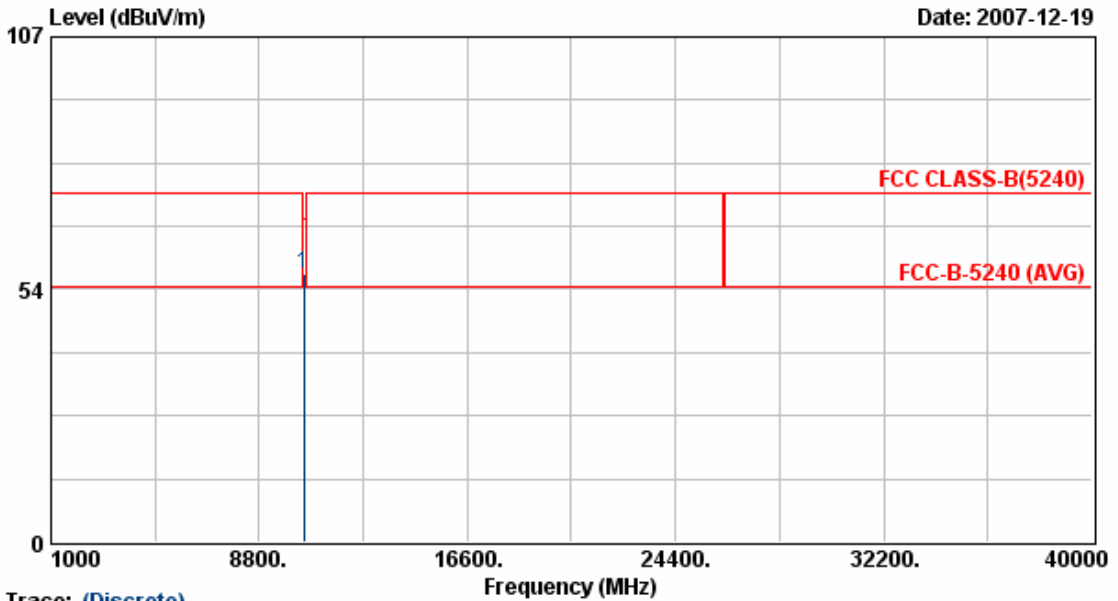
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.38	43.64	13.23	56.87	68.30	-11.43	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps

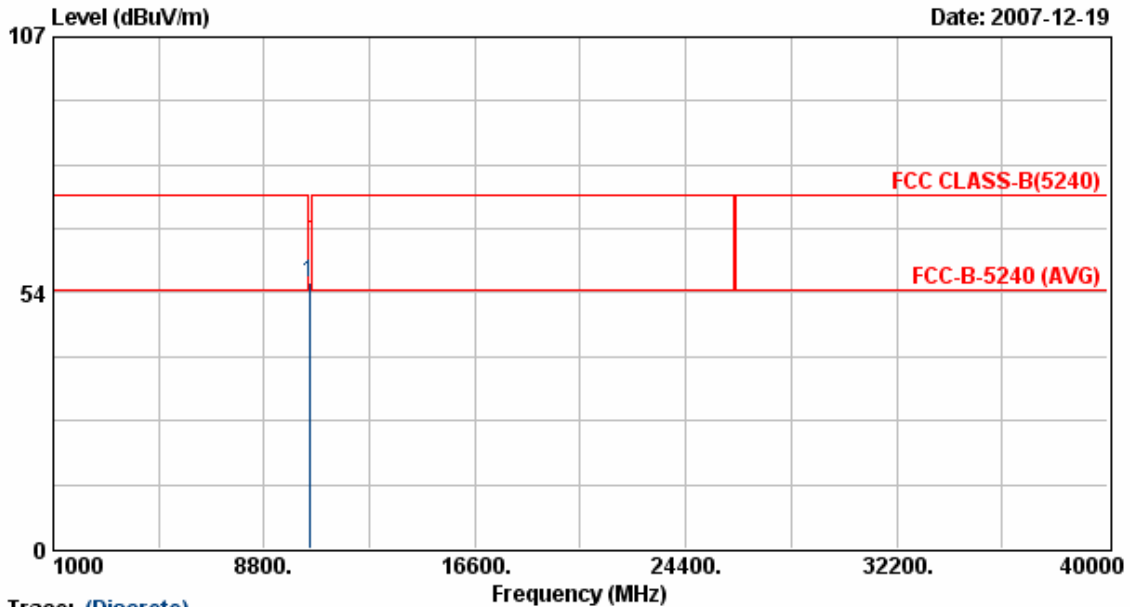


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10479.63	43.38	13.28	56.65	68.30	-11.65	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



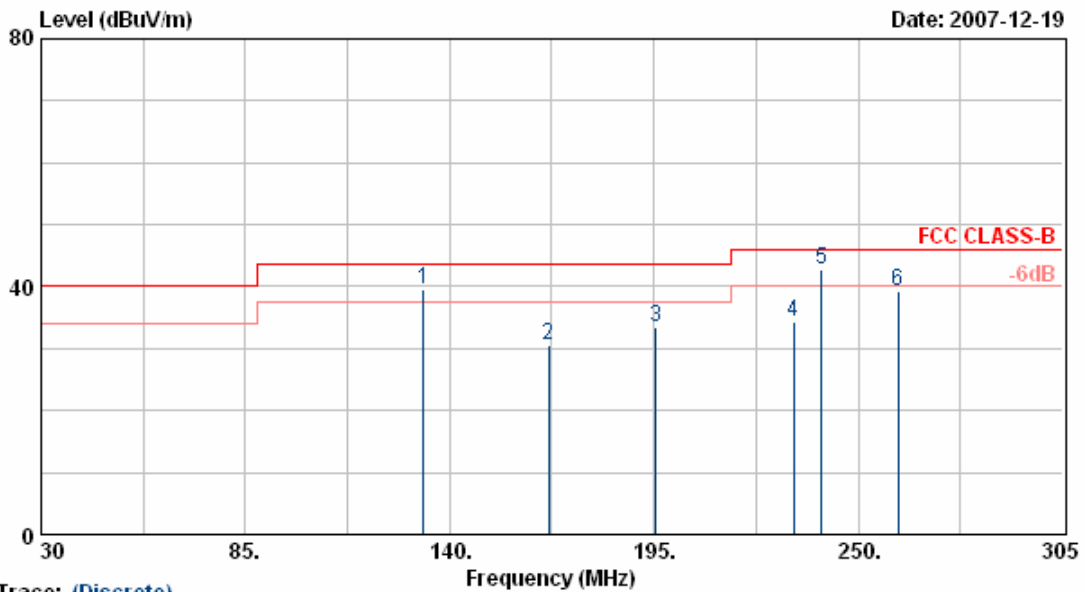
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10480.38	42.21	13.28	55.49	68.30	-12.81	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps



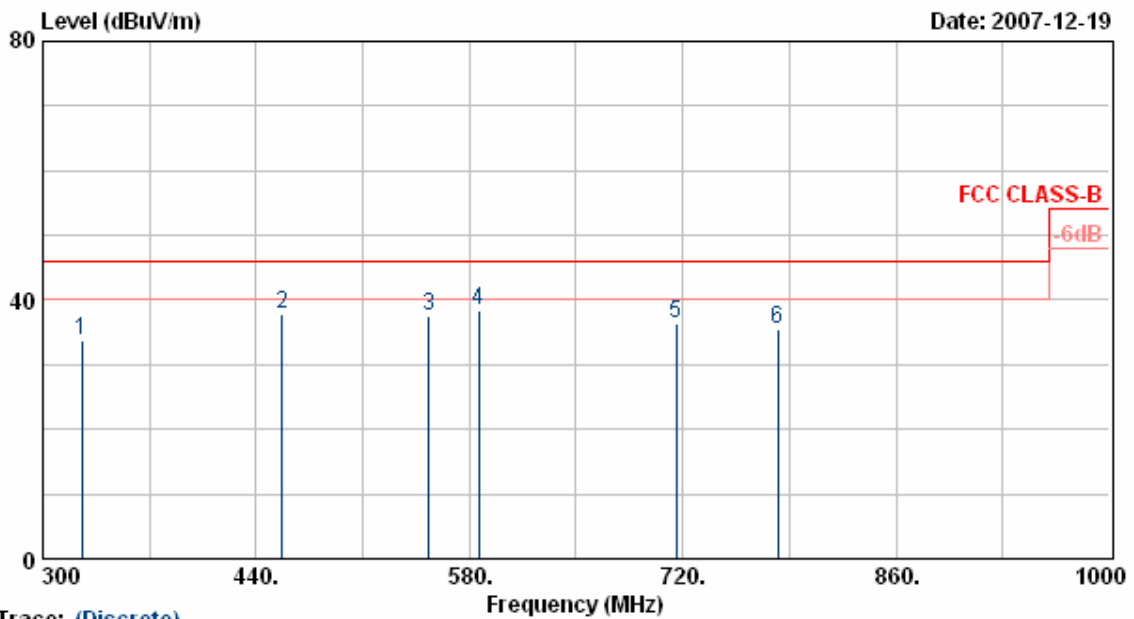
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.67	-12.97	39.70	43.50	-3.80	QP	100	44
2	166.68	44.86	-14.41	30.46	43.50	-13.04	Peak	100	147
3	195.55	46.55	-13.01	33.54	43.50	-9.96	Peak	100	145
4	232.68	46.68	-12.38	34.30	46.00	-11.70	Peak	100	167
5	240.10	55.54	-12.70	42.84	46.00	-3.16	QP	100	166
6	260.73	50.43	-11.17	39.26	46.00	-6.74	Peak	150	111

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps



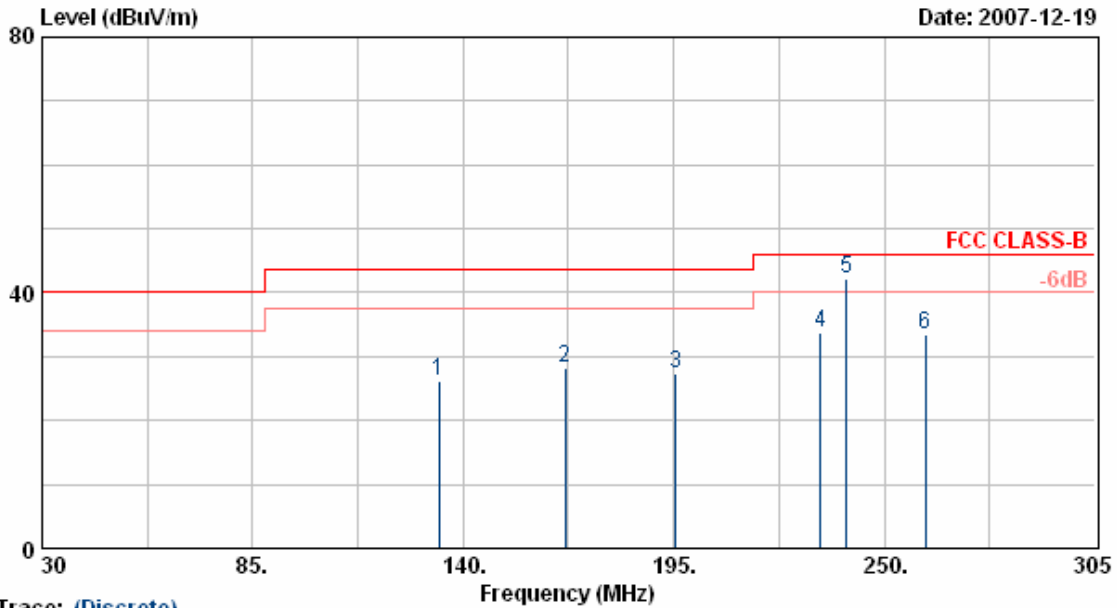
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	45.35	-11.71	33.63	46.00	-12.37	Peak	100	199
2	456.80	45.49	-7.80	37.69	46.00	-8.31	Peak	100	137
3	553.40	42.47	-4.85	37.61	46.00	-8.39	Peak	100	117
4	586.30	48.18	-9.73	38.45	46.00	-7.55	Peak	100	211
5	715.80	41.36	-5.03	36.33	46.00	-9.67	Peak	100	136
6	782.30	39.67	-4.31	35.36	46.00	-10.64	Peak	100	110

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11n HT40 mode at channel 38, 42, 46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps

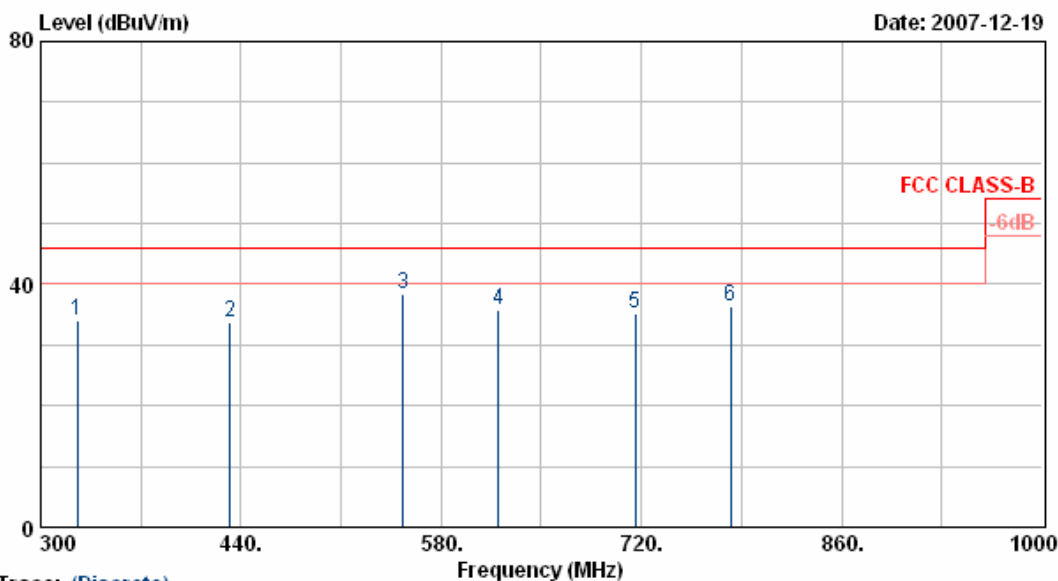


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.57	-19.48	26.09	43.50	-17.41	Peak	100	127
2	166.68	48.34	-20.20	28.14	43.50	-15.36	Peak	100	117
3	195.55	47.09	-19.74	27.35	43.50	-16.15	Peak	100	217
4	233.23	50.63	-16.87	33.76	46.00	-12.24	Peak	100	138
5	240.10	59.87	-17.80	42.07	46.00	-3.93	QP	100	167
6	260.73	47.90	-14.47	33.43	46.00	-12.57	Peak	100	197

- Notes:
1. Result = Read Value + Factor
 2. Factor = Antenna Factor + Cable Loss - Amplifier
 3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
 4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
 5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps



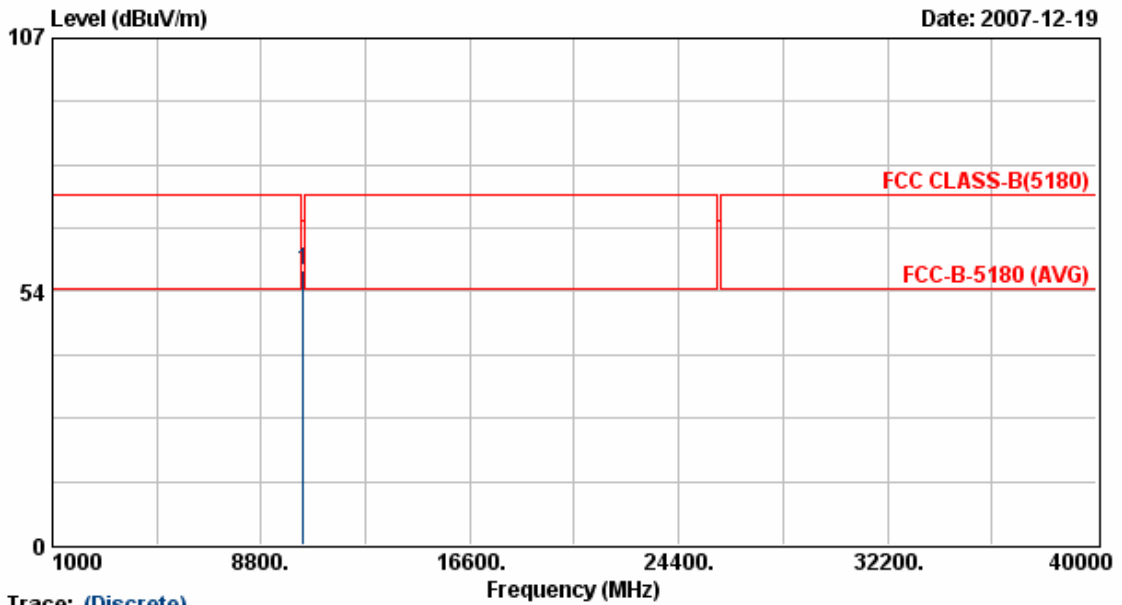
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.64	-13.72	33.92	46.00	-12.08	Peak	100	217
2	432.30	41.65	-7.88	33.76	46.00	-12.24	Peak	100	211
3	553.40	42.56	-4.03	38.53	46.00	-7.47	Peak	100	211
4	619.90	40.32	-4.41	35.90	46.00	-10.10	Peak	100	114
5	715.80	43.44	-8.16	35.28	46.00	-10.72	Peak	100	164
6	782.30	41.99	-5.58	36.40	46.00	-9.60	Peak	100	41

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



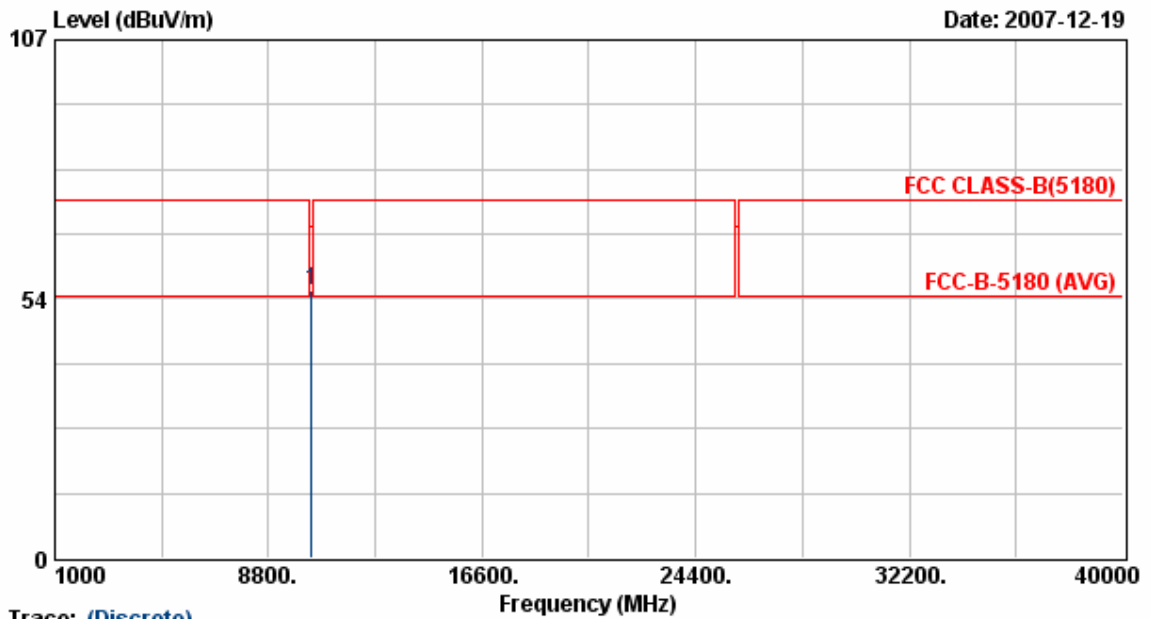
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10378.00	44.82	13.15	57.97	68.30	-10.33	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



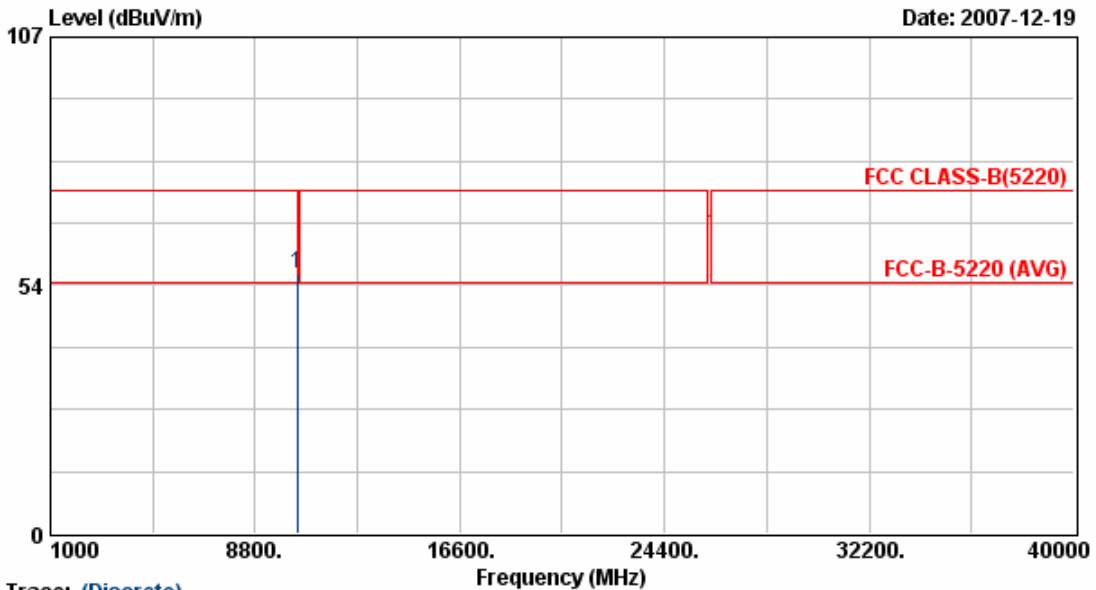
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10380.13	42.29	13.16	55.44	68.30	-12.86	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 42	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



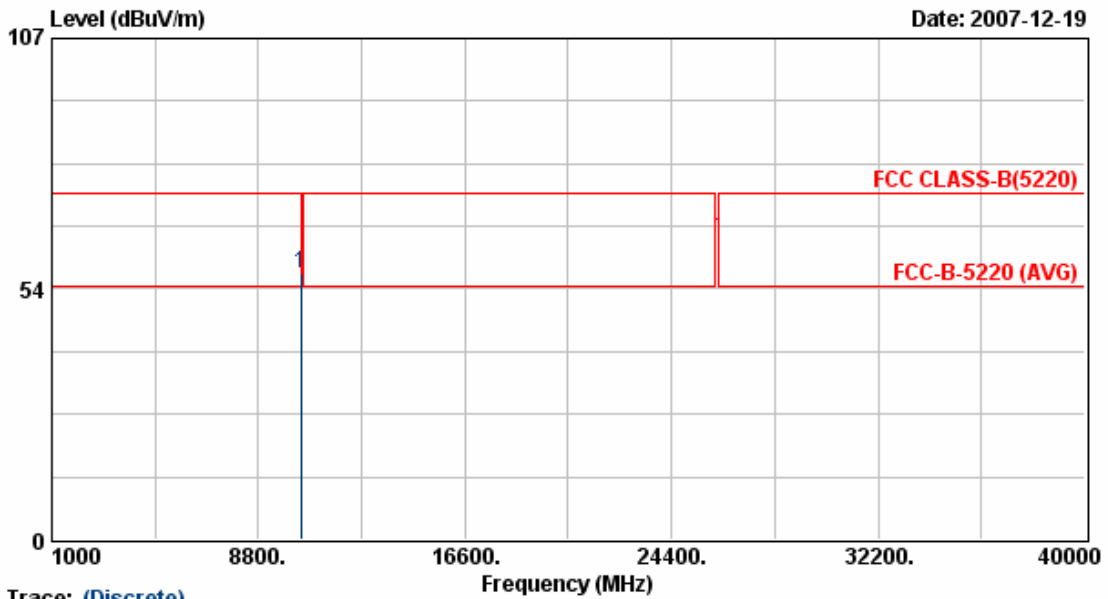
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10420.13	42.71	13.20	55.91	68.30	-12.39	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 42	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



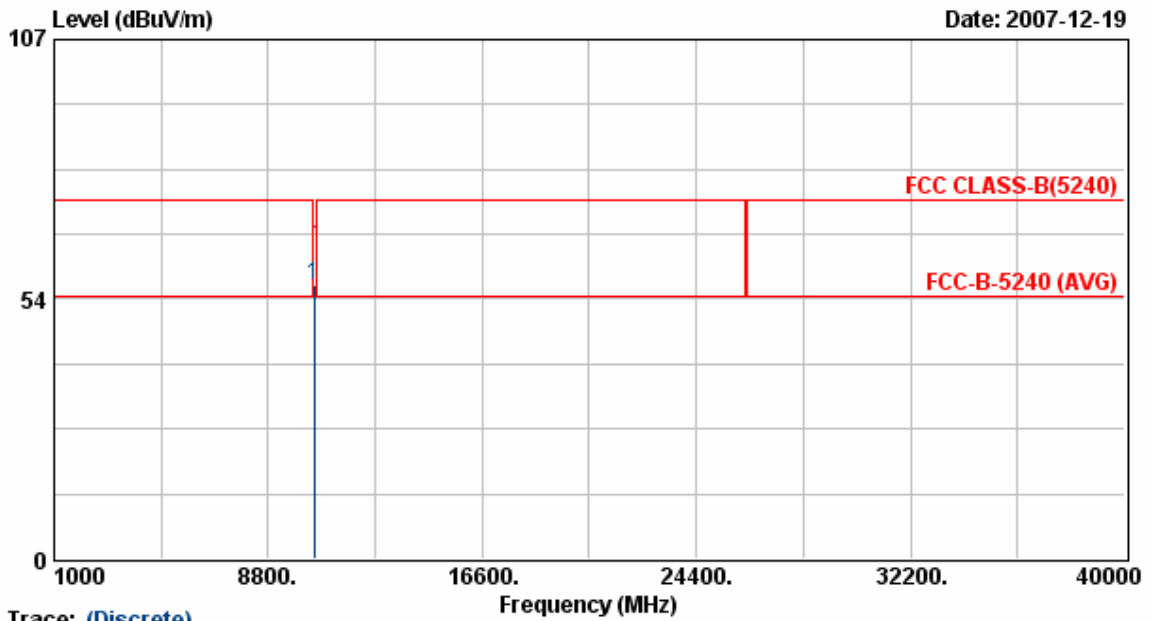
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10420.63	43.46	13.20	56.66	68.30	-11.64	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 46	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



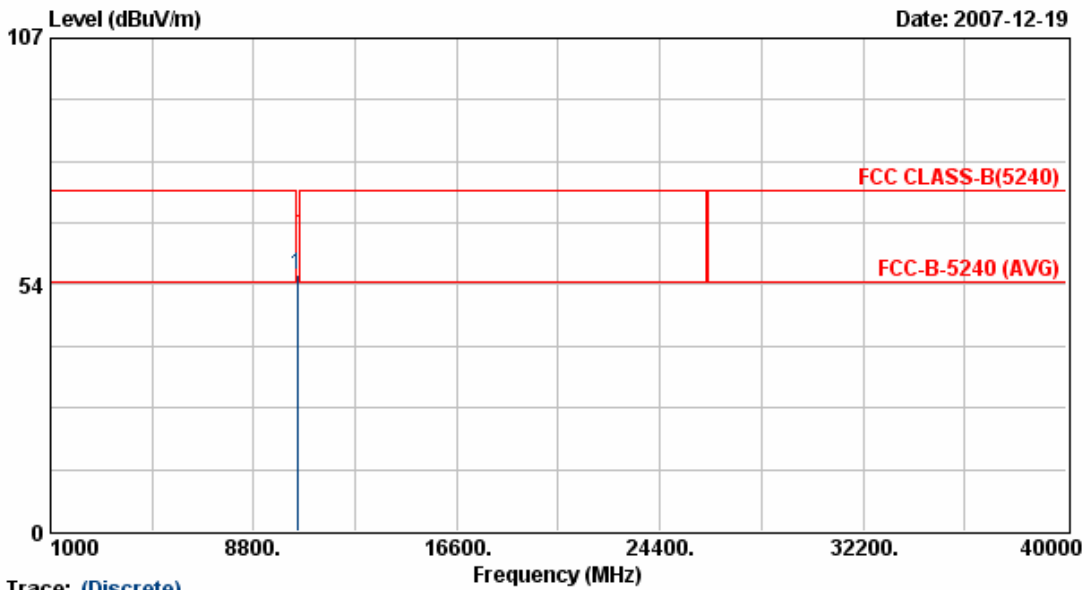
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10459.63	43.23	13.25	56.48	68.30	-11.82	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 1	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 46	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



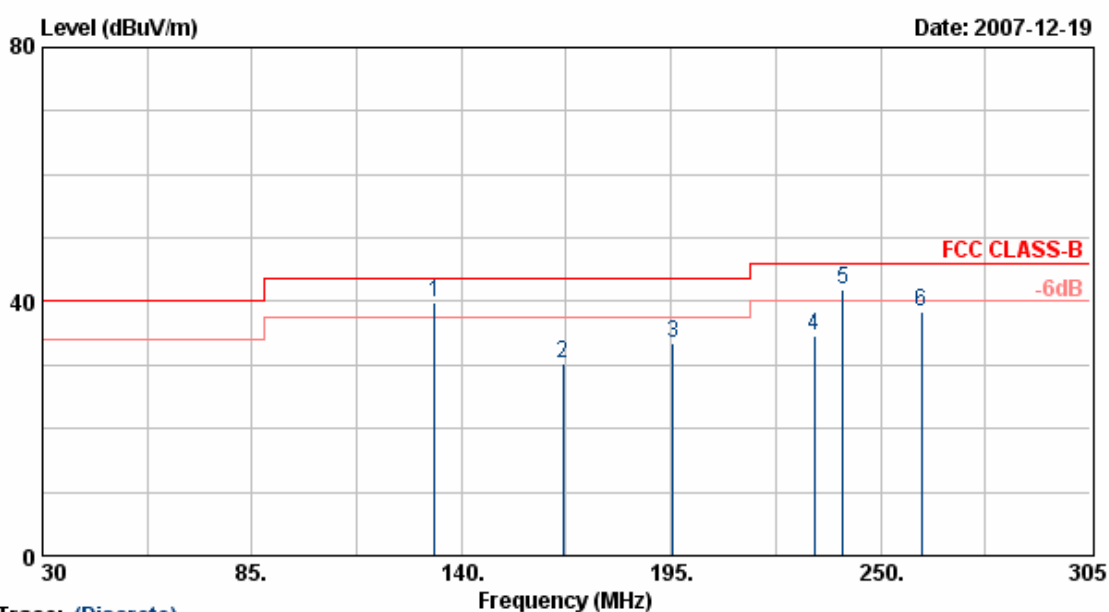
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10460.00	42.40	13.25	55.65	68.30	-12.65	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps



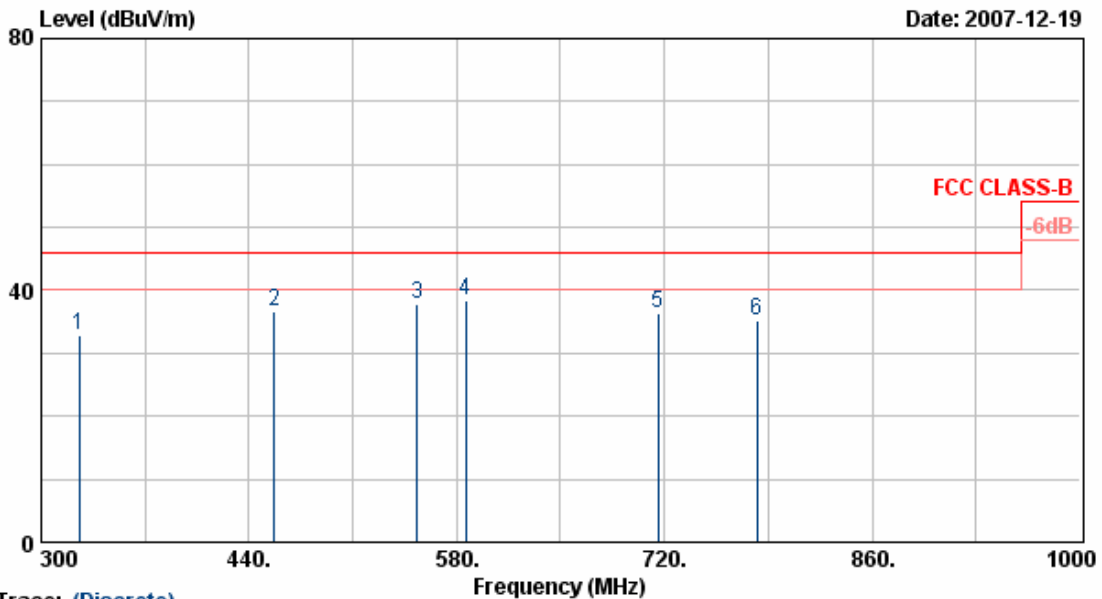
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.68	-12.97	39.71	43.50	-3.79	QP	100	44
2	166.68	44.63	-14.41	30.23	43.50	-13.27	Peak	100	147
3	195.55	46.52	-13.01	33.52	43.50	-9.98	Peak	100	145
4	232.68	46.88	-12.38	34.50	46.00	-11.50	Peak	100	167
5	240.10	54.70	-12.70	42.00	46.00	-4.00	QP	100	166
6	260.73	49.67	-11.17	38.50	46.00	-7.50	Peak	150	111

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps



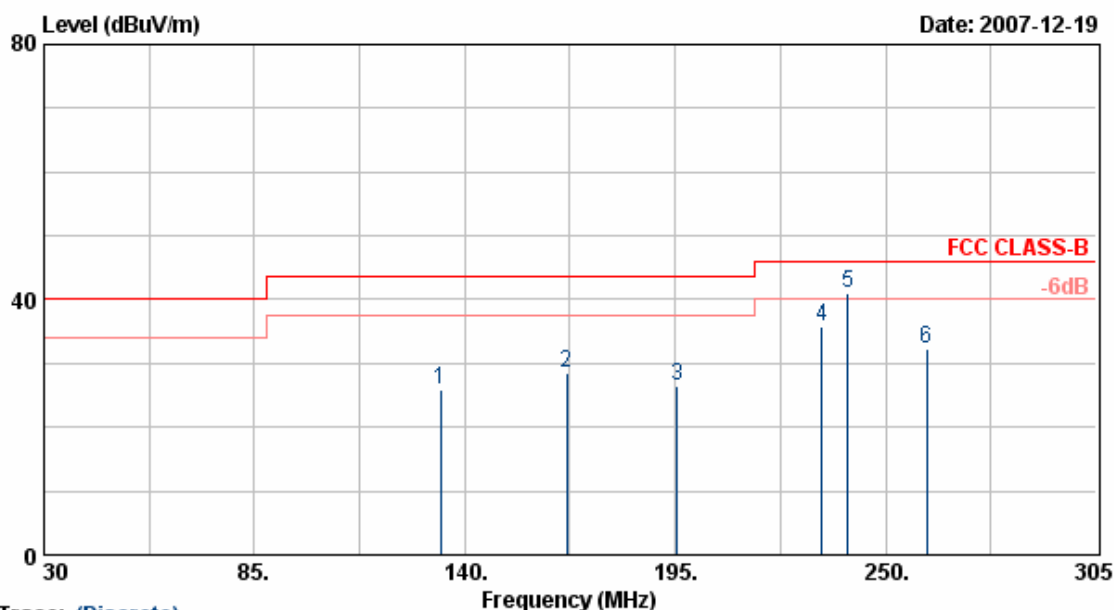
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.57	-11.71	32.85	46.00	-13.15	Peak	100	199
2	456.80	44.47	-7.80	36.67	46.00	-9.33	Peak	100	137
3	553.40	42.77	-4.85	37.91	46.00	-8.09	Peak	100	117
4	586.30	48.14	-9.73	38.41	46.00	-7.59	Peak	100	211
5	715.80	41.34	-5.03	36.31	46.00	-9.69	Peak	100	136
6	782.30	39.53	-4.31	35.22	46.00	-10.78	Peak	100	110

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps



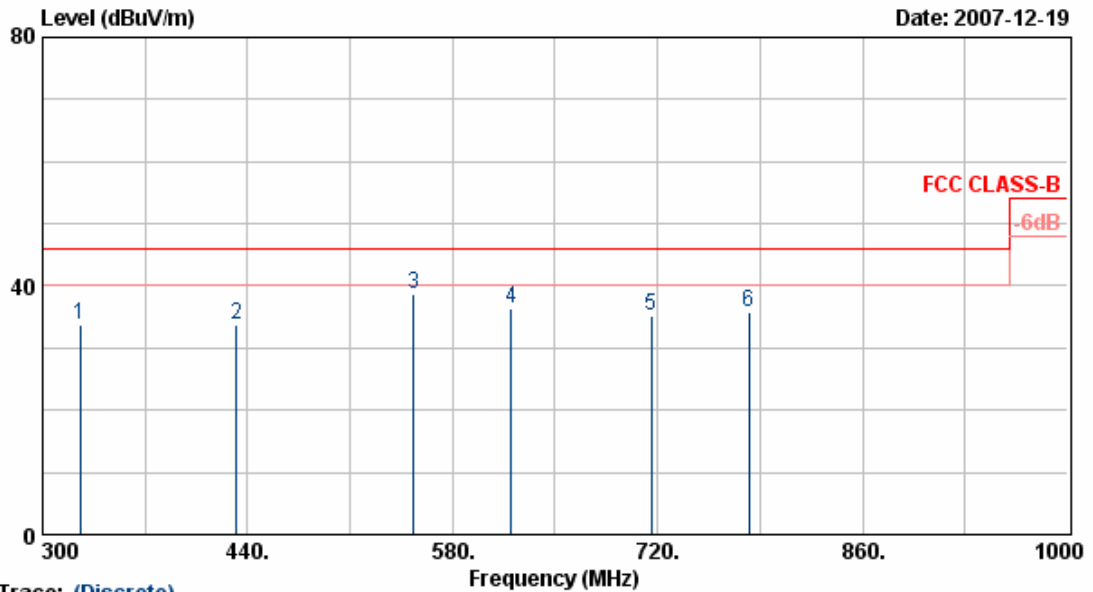
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.46	-19.48	25.98	43.50	-17.52	Peak	100	127
2	166.68	48.79	-20.20	28.59	43.50	-14.91	Peak	100	117
3	195.55	46.10	-19.74	26.36	43.50	-17.14	Peak	100	217
4	233.23	52.63	-16.87	35.76	46.00	-10.24	Peak	100	138
5	240.10	58.87	-17.80	41.07	46.00	-4.93	QP	100	167
6	260.73	46.88	-14.47	32.41	46.00	-13.59	Peak	100	197

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6Mbps



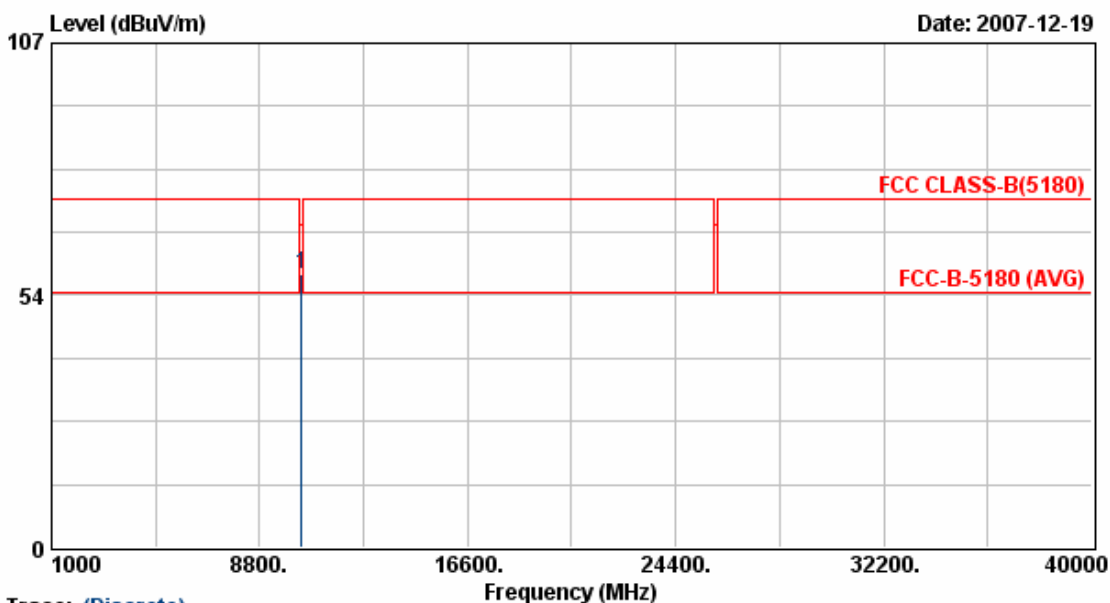
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV/m	dB		cm	Deg
1	325.90	47.57	-13.72	33.85	46.00	-12.15	Peak	100	217
2	432.30	41.67	-7.88	33.79	46.00	-12.21	Peak	100	211
3	553.40	42.67	-4.03	38.64	46.00	-7.36	Peak	100	211
4	619.90	40.66	-4.41	36.25	46.00	-9.75	Peak	100	114
5	715.80	43.41	-8.16	35.25	46.00	-10.75	Peak	100	164
6	782.30	41.39	-5.58	35.80	46.00	-10.20	Peak	100	41

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps

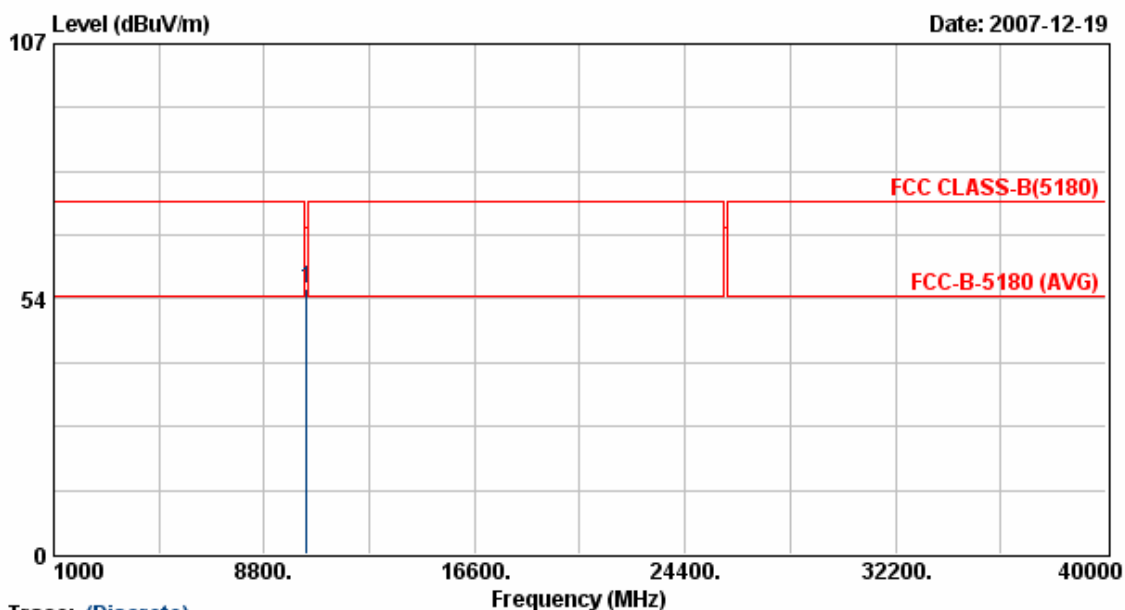


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10358.00	44.86	13.13	57.99	68.30	-10.31	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



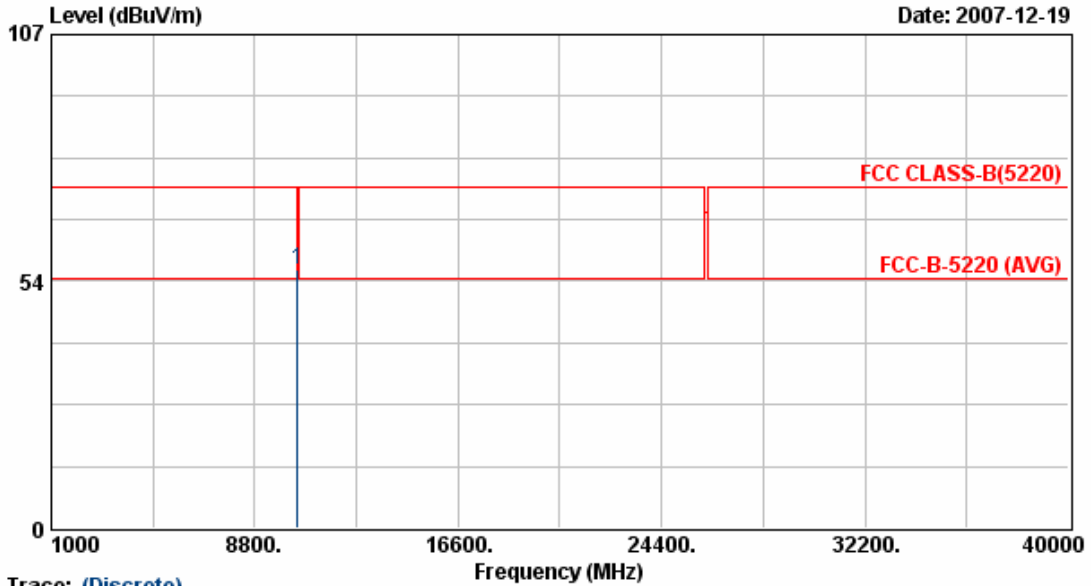
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBUV/m	dB	dBUV/m	dBUV/m	dB		cm	Deg
1	10360.13	42.33	13.13	55.46	68.30	-12.84	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



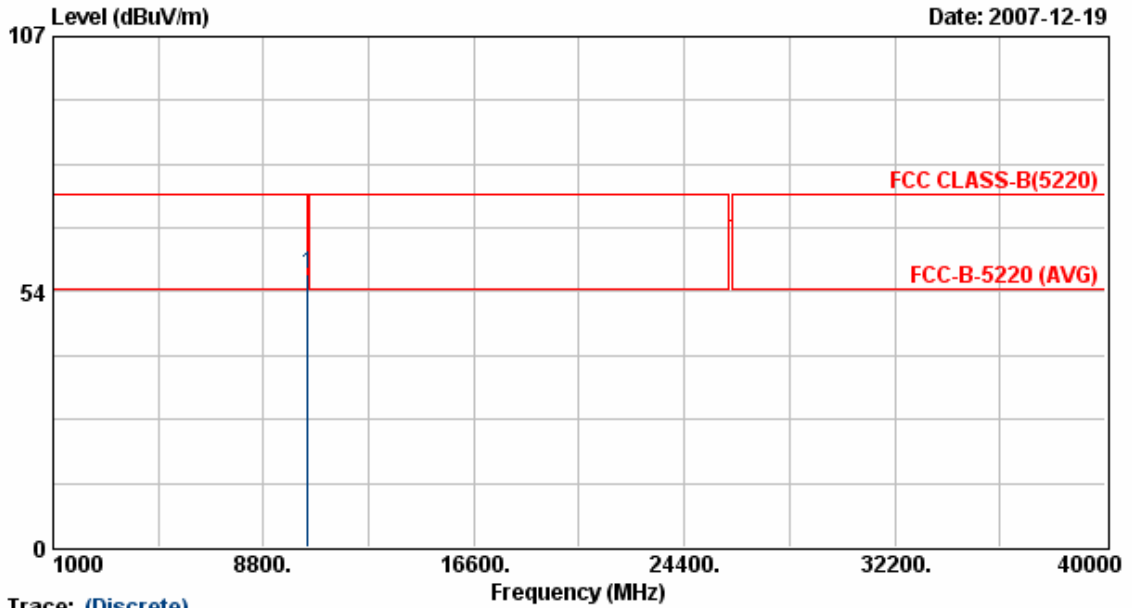
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.13	42.77	13.23	56.00	68.30	-12.30	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



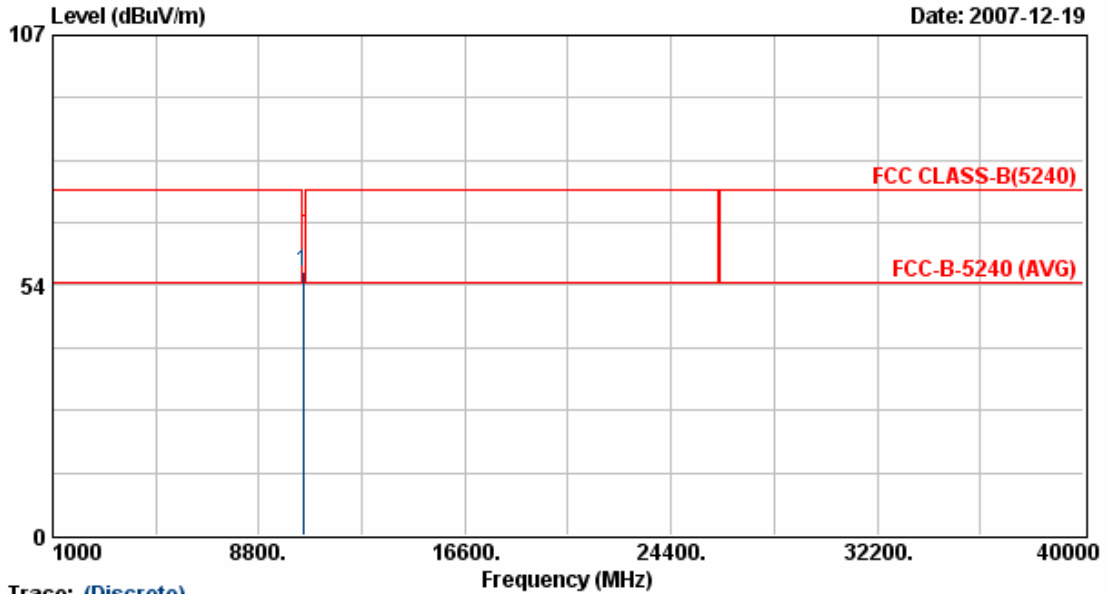
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.63	43.81	13.23	57.04	68.30	-11.26	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



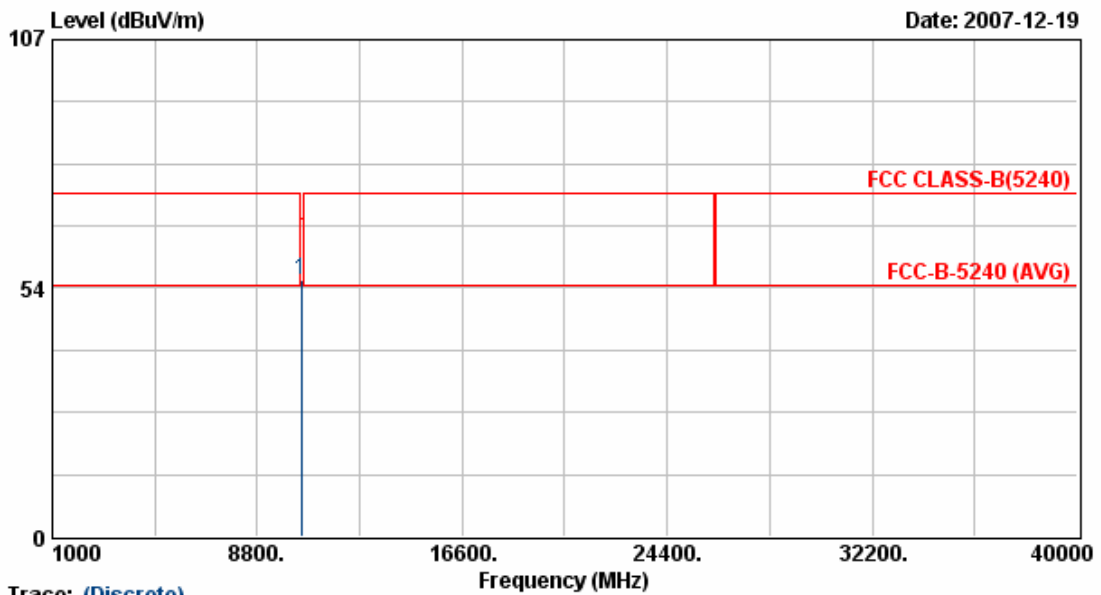
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10479.63	43.28	13.28	56.55	68.30	-11.75	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11a	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6 Mbps



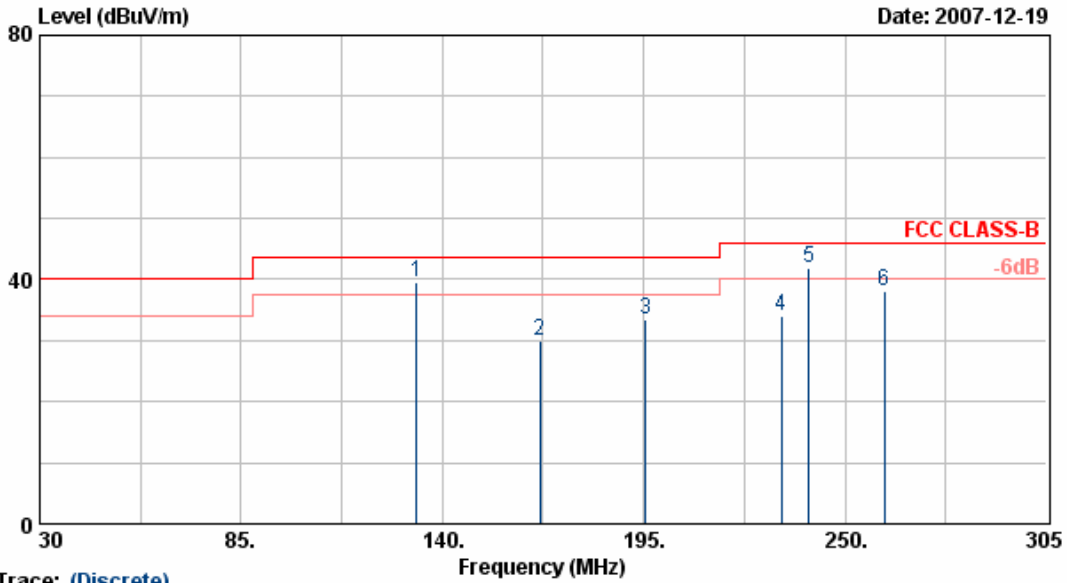
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10480.00	42.06	13.28	55.34	68.30	-12.96	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



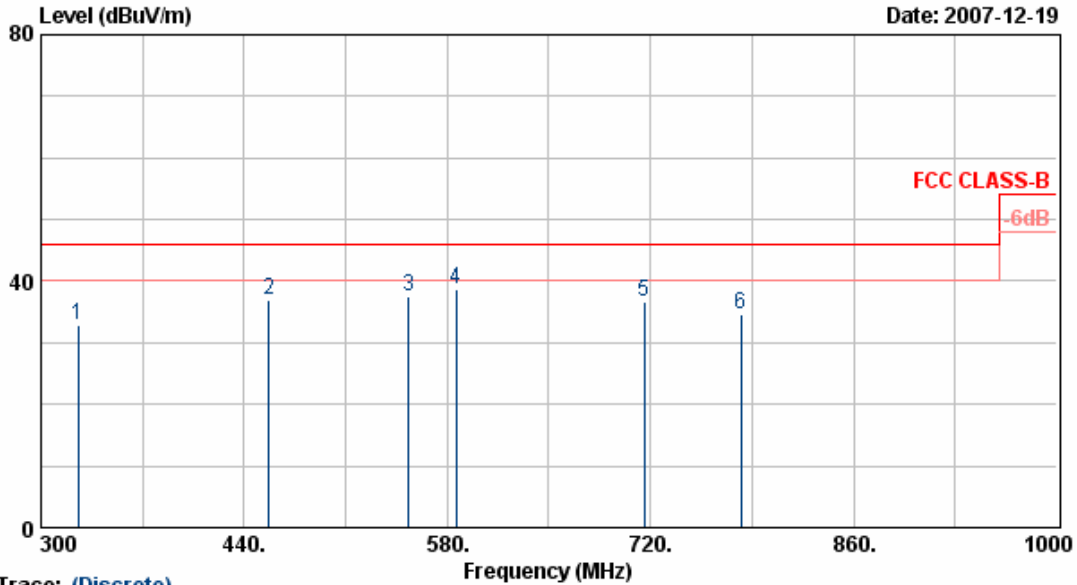
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.42	-12.97	39.45	43.50	-4.05	QP	100	44
2	166.68	44.37	-14.41	29.97	43.50	-13.53	Peak	100	147
3	195.55	46.33	-13.01	33.33	43.50	-10.17	Peak	100	145
4	232.68	46.48	-12.38	34.10	46.00	-11.90	Peak	100	167
5	240.10	54.58	-12.70	41.88	46.00	-4.12	QP	100	166
6	260.73	49.36	-11.17	38.19	46.00	-7.81	Peak	150	111

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



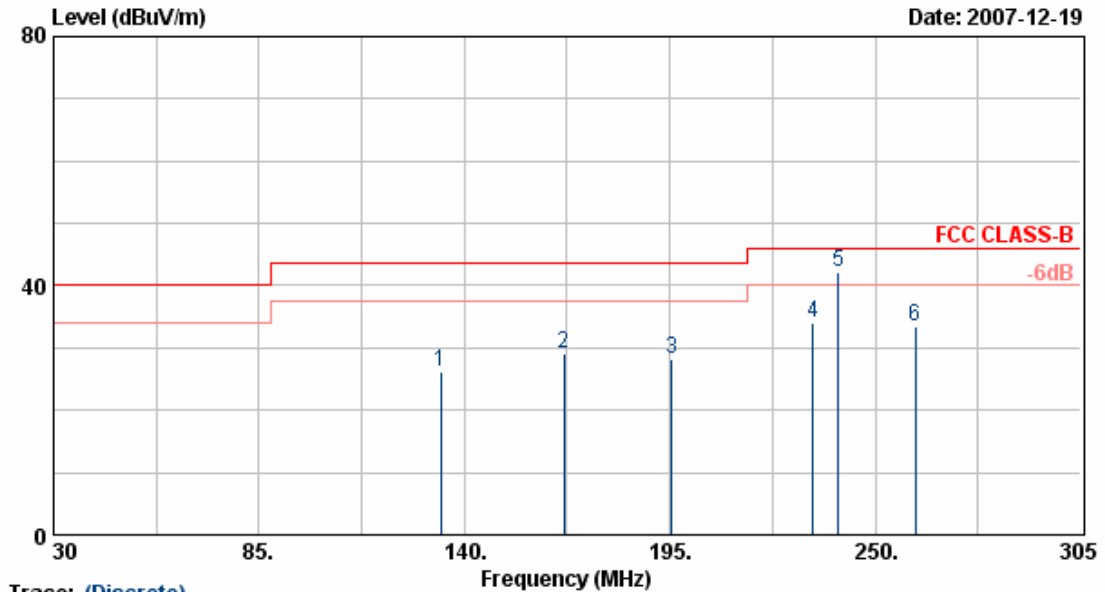
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	44.56	-11.71	32.84	46.00	-13.16	Peak	100	199
2	456.80	44.67	-7.80	36.87	46.00	-9.13	Peak	100	137
3	553.40	42.52	-4.85	37.66	46.00	-8.34	Peak	100	117
4	586.30	48.39	-9.73	38.66	46.00	-7.34	Peak	100	211
5	715.80	41.56	-5.03	36.53	46.00	-9.47	Peak	100	136
6	782.30	38.87	-4.31	34.56	46.00	-11.44	Peak	100	110

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



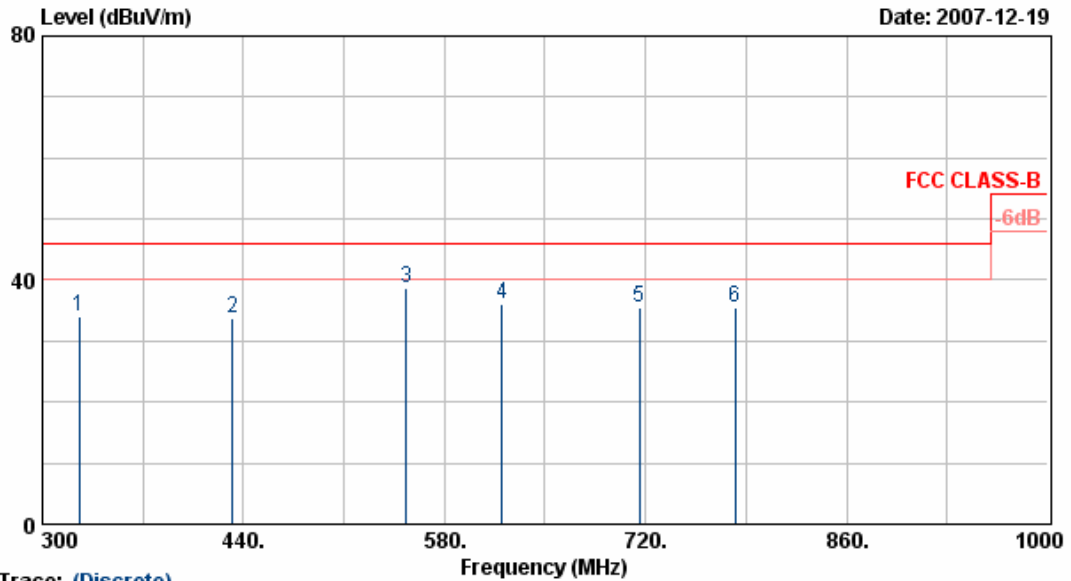
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.57	-19.48	26.09	43.50	-17.41	Peak	100	127
2	166.68	49.34	-20.20	29.14	43.50	-14.36	Peak	100	117
3	195.55	48.10	-19.74	28.36	43.50	-15.14	Peak	100	217
4	233.23	50.76	-16.87	33.90	46.00	-12.10	Peak	100	138
5	240.10	59.88	-17.80	42.08	46.00	-3.92	QP	100	167
6	260.73	47.86	-14.47	33.39	46.00	-12.61	Peak	100	197

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5Mbps



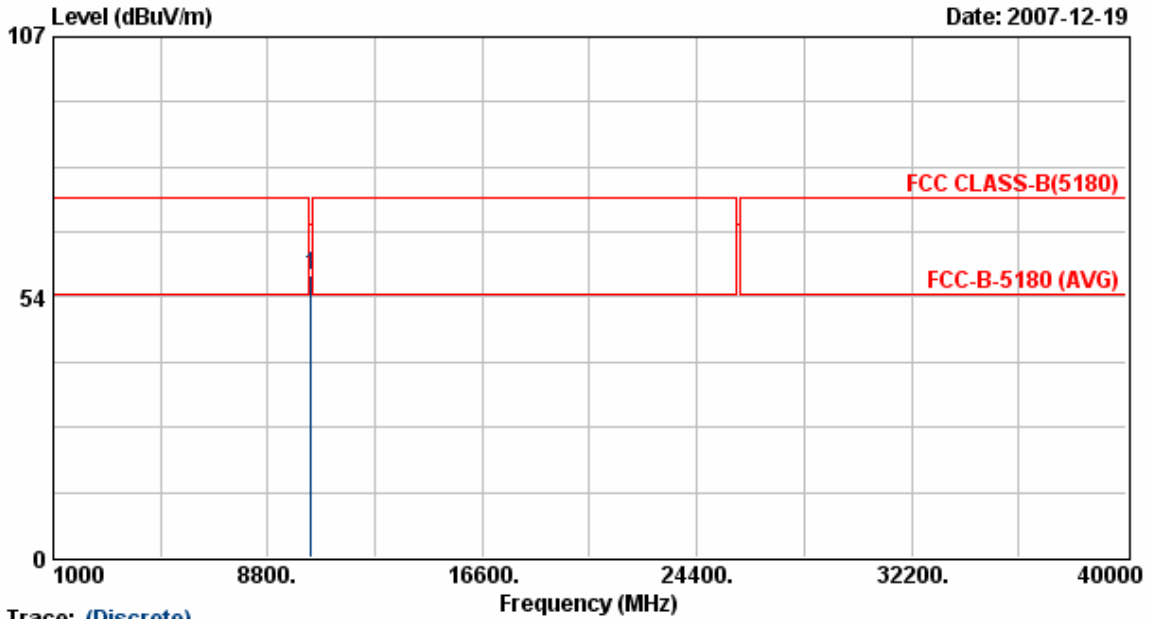
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.87	-13.72	34.15	46.00	-11.85	Peak	100	217
2	432.30	41.55	-7.88	33.67	46.00	-12.33	Peak	100	211
3	553.40	42.65	-4.03	38.62	46.00	-7.38	Peak	100	211
4	619.90	40.42	-4.41	36.00	46.00	-10.00	Peak	100	114
5	715.80	43.66	-8.16	35.50	46.00	-10.50	Peak	100	164
6	782.30	40.99	-5.58	35.40	46.00	-10.60	Peak	100	41

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT20 mode at channel 36,44,48 are almost the same below 1GHz, so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



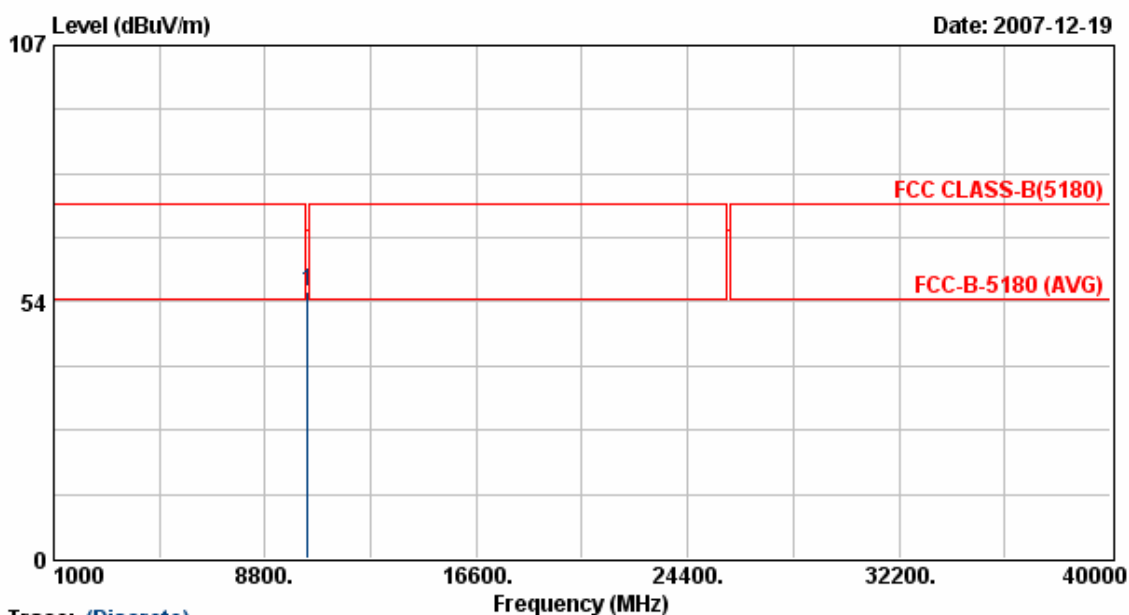
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10358.00	44.67	13.13	57.80	68.30	-10.50	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 36	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps

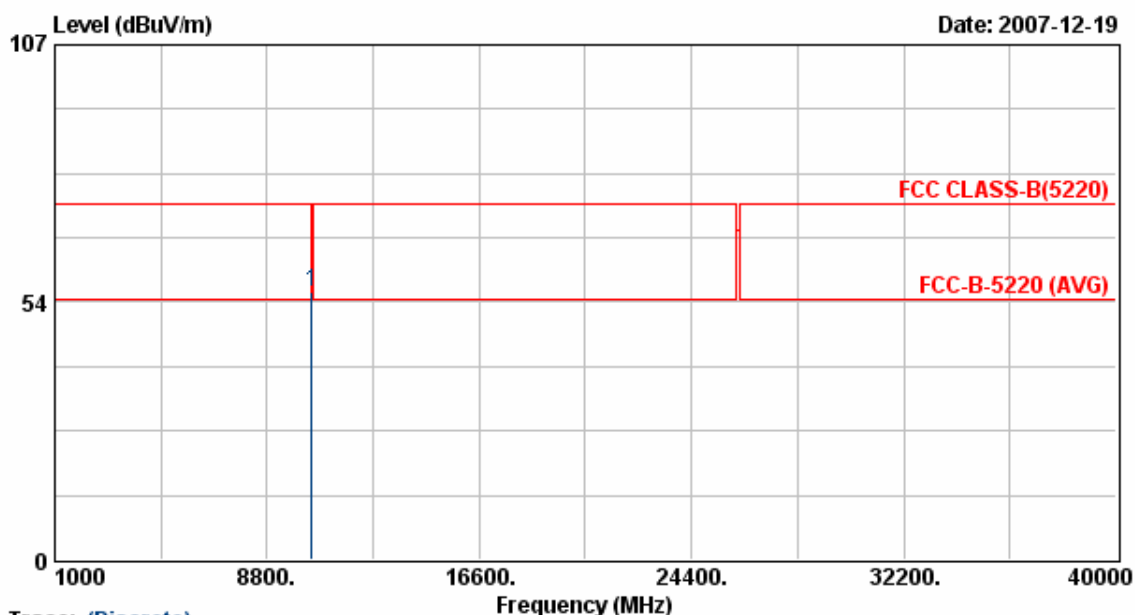


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10360.13	42.60	13.13	55.73	68.30	-12.57	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



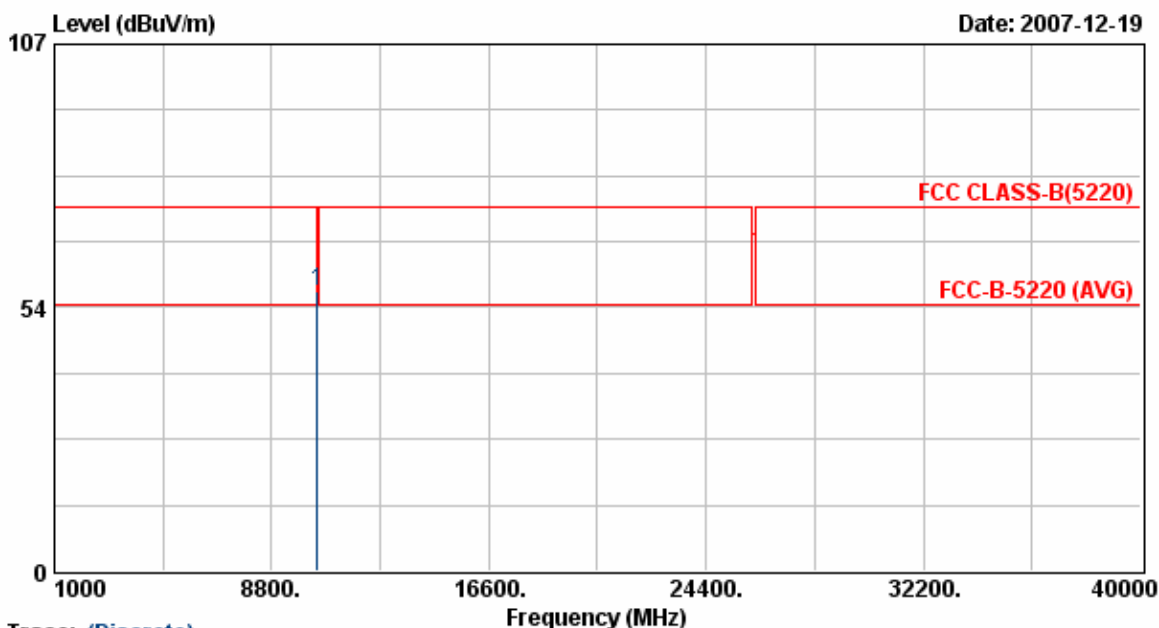
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.13	42.54	13.23	55.77	68.30	-12.53	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 44	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



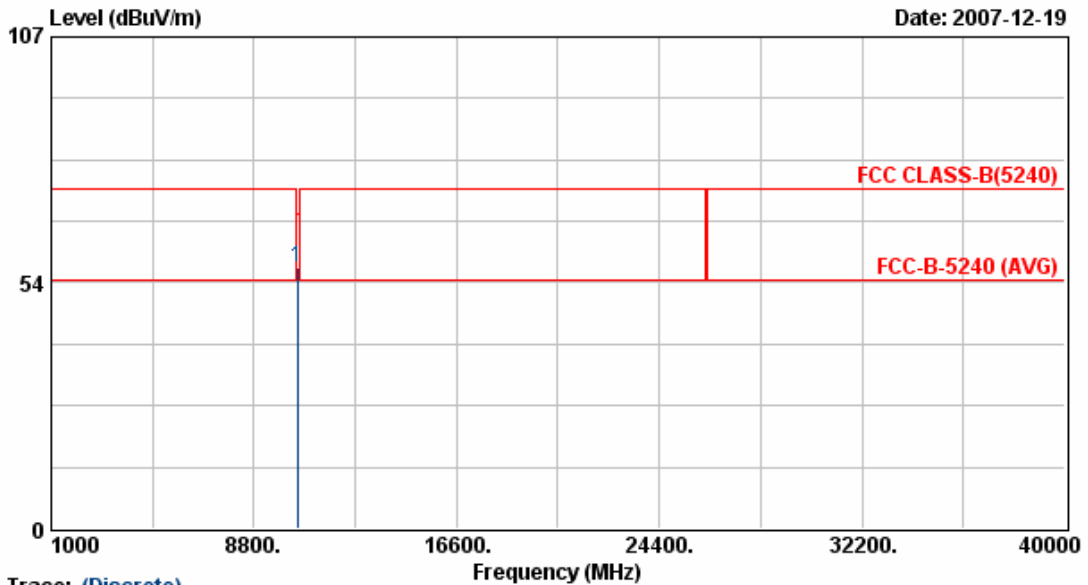
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Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10440.38	43.44	13.23	56.67	68.30	-11.63	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



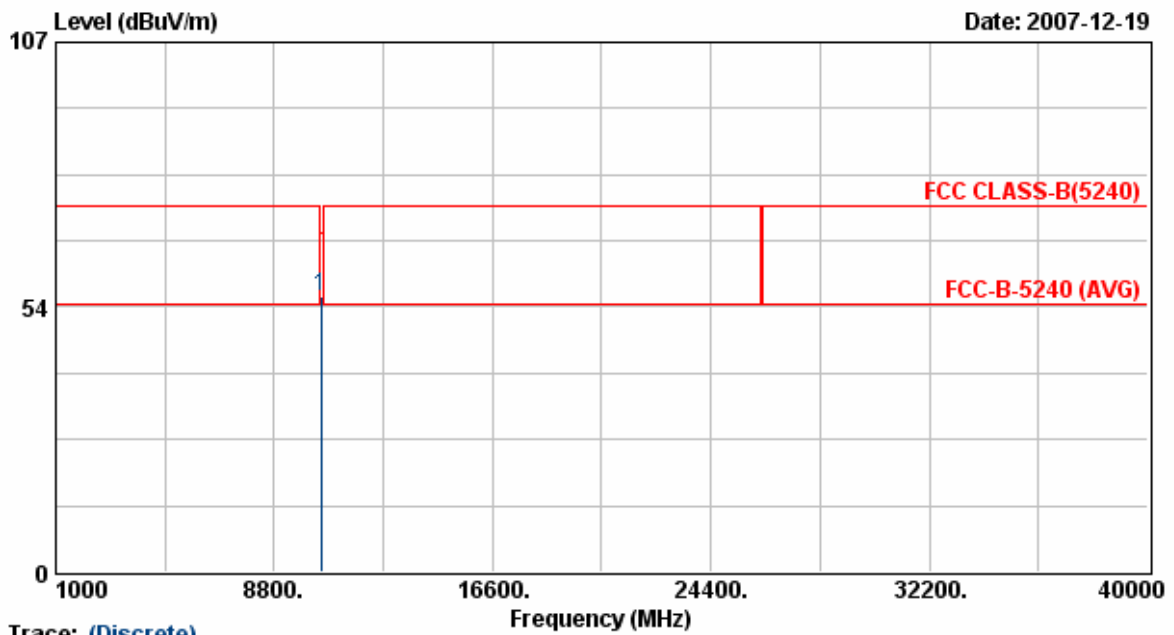
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10479.63	43.58	13.28	56.85	68.30	-11.45	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 48	Humidity	: 70 %
Modulation Type	: 802.11Draft n 20MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 6.5 Mbps



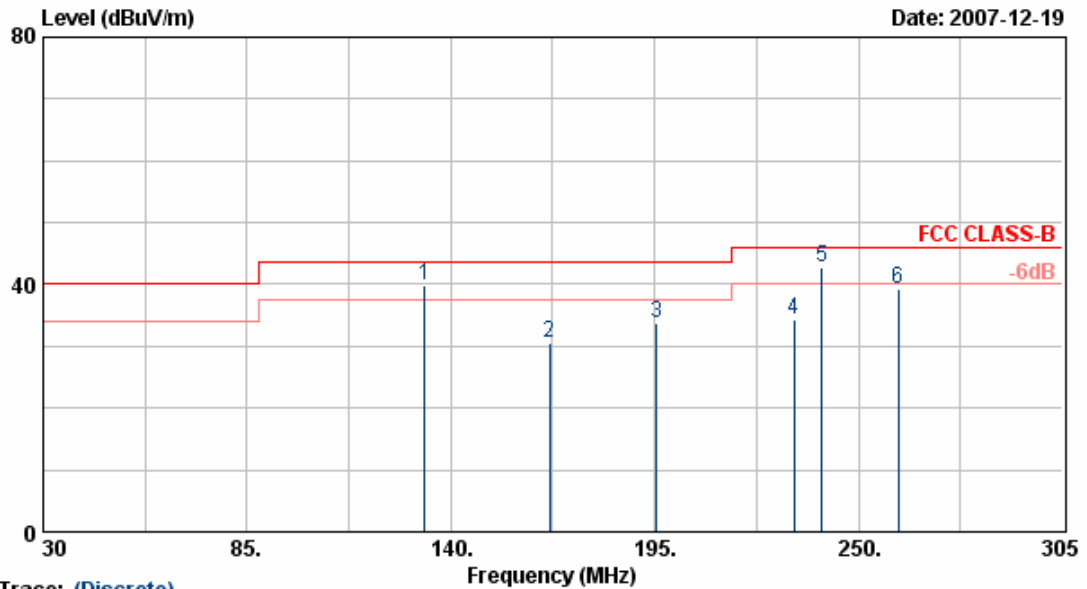
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10480.38	42.22	13.28	55.50	68.30	-12.80	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps



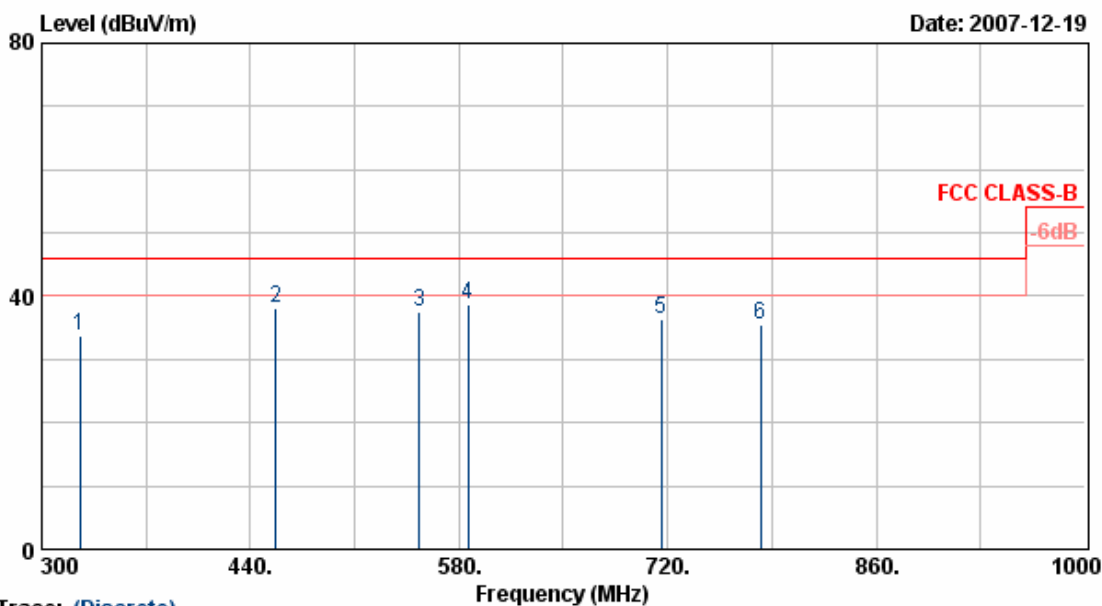
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	132.85	52.68	-12.97	39.71	43.50	-3.79	QP	100	44
2	166.68	44.86	-14.41	30.46	43.50	-13.04	Peak	100	147
3	195.55	46.90	-13.01	33.89	43.50	-9.61	Peak	100	145
4	232.68	46.68	-12.38	34.30	46.00	-11.70	Peak	100	167
5	240.10	55.58	-12.70	42.88	46.00	-3.12	QP	100	166
6	260.73	50.43	-11.17	39.26	46.00	-6.74	Peak	150	111

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps



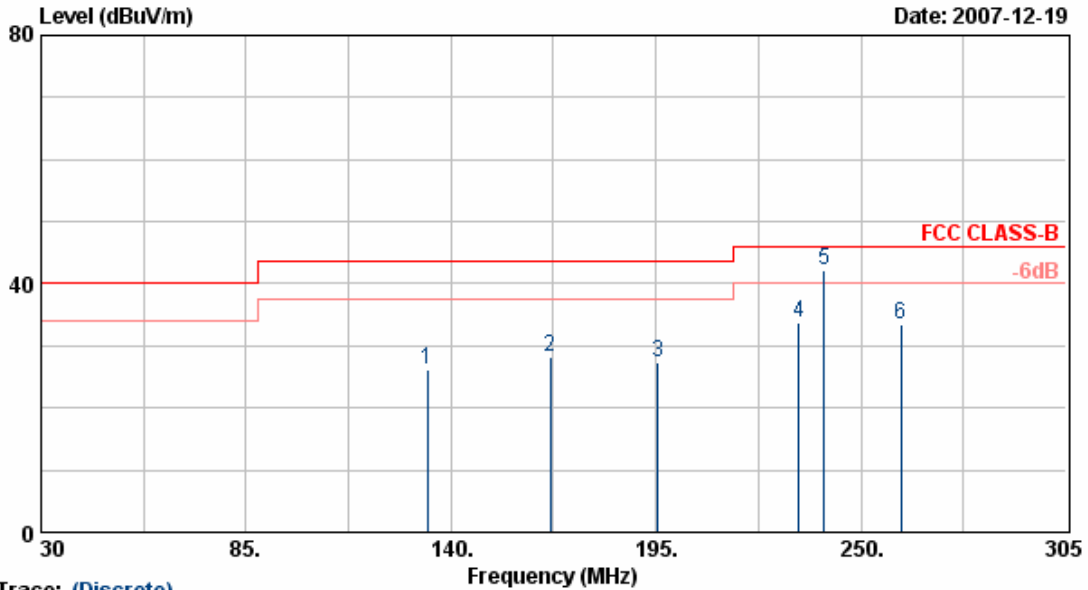
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	45.35	-11.71	33.63	46.00	-12.37	Peak	100	199
2	456.80	45.87	-7.80	38.07	46.00	-7.93	Peak	100	137
3	553.40	42.47	-4.85	37.61	46.00	-8.39	Peak	100	117
4	586.30	48.33	-9.73	38.60	46.00	-7.40	Peak	100	211
5	715.80	41.36	-5.03	36.33	46.00	-9.67	Peak	100	136
6	782.30	39.87	-4.31	35.56	46.00	-10.44	Peak	100	110

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps



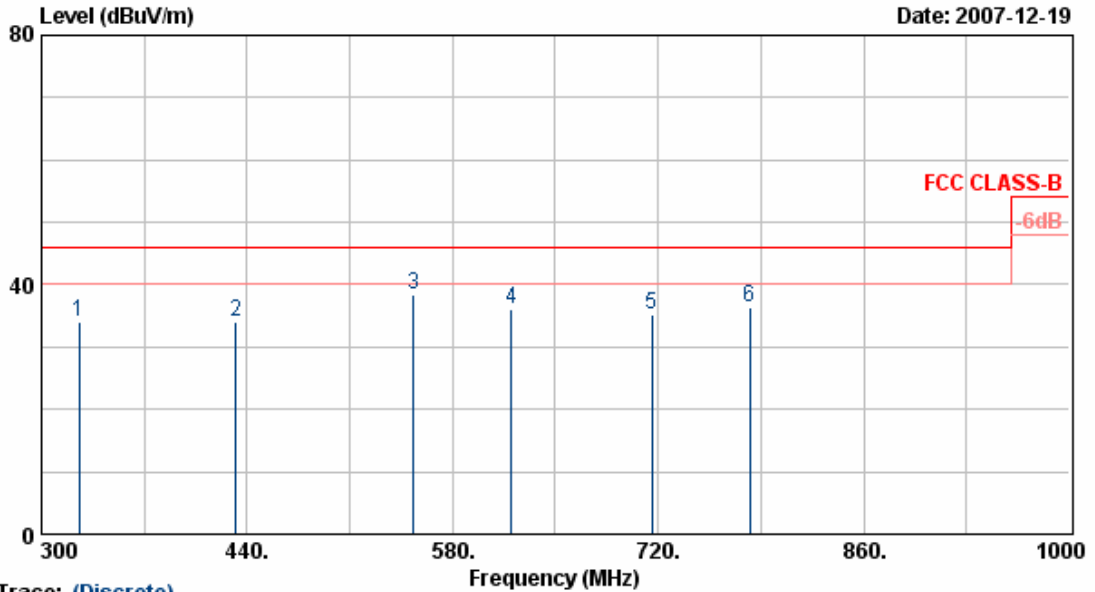
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	133.68	45.57	-19.48	26.09	43.50	-17.41	Peak	100	127
2	166.68	48.37	-20.20	28.17	43.50	-15.33	Peak	100	117
3	195.55	47.09	-19.74	27.35	43.50	-16.15	Peak	100	217
4	233.23	50.68	-16.87	33.82	46.00	-12.18	Peak	100	138
5	240.10	59.87	-17.80	42.07	46.00	-3.93	QP	100	167
6	260.73	47.98	-14.47	33.51	46.00	-12.49	Peak	100	197

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11n draft 2.0, 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5Mbps



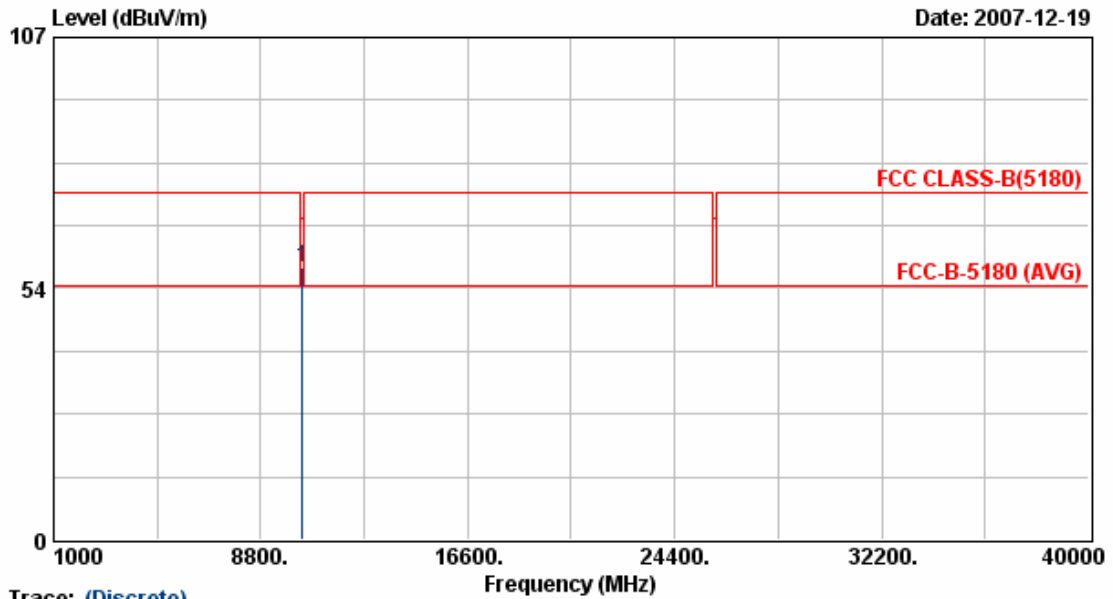
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	325.90	47.64	-13.72	33.92	46.00	-12.08	Peak	100	217
2	432.30	41.79	-7.88	33.90	46.00	-12.10	Peak	100	211
3	553.40	42.56	-4.03	38.53	46.00	-7.47	Peak	100	211
4	619.90	40.36	-4.41	35.95	46.00	-10.05	Peak	100	114
5	715.80	43.44	-8.16	35.28	46.00	-10.72	Peak	100	164
6	782.30	41.96	-5.58	36.37	46.00	-9.63	Peak	100	41

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences, all spurious emission of 802.11an HT40 mode at channel 38,42,46 are almost the same below 1GHz, so that the channel 38 was chosen as representative in final test.
5. The data is worse case.

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



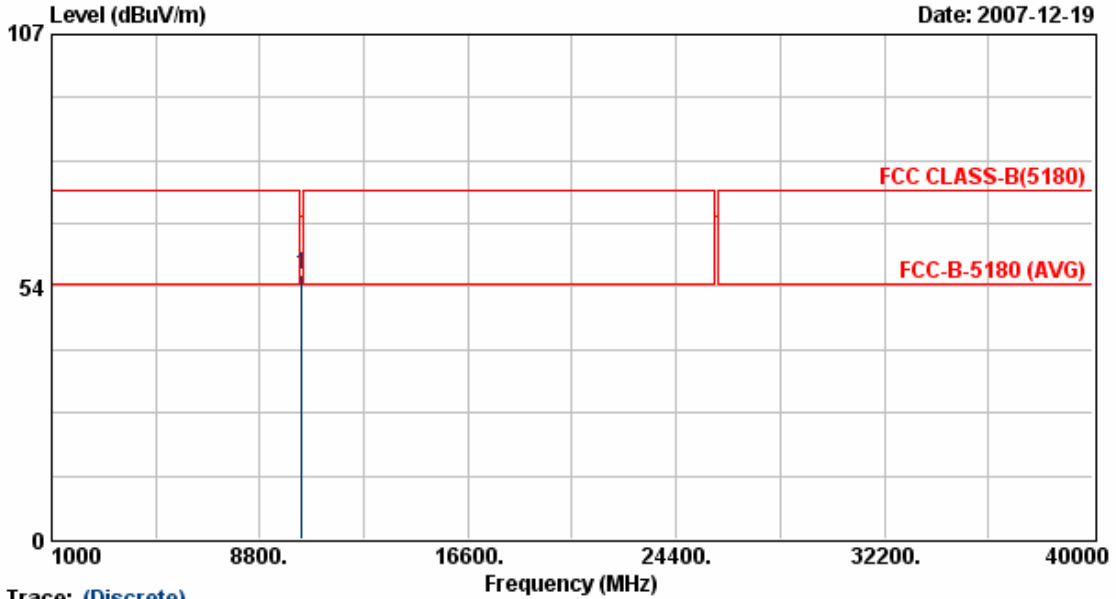
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10378.00	44.87	13.15	58.02	68.30	-10.28	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 38	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps

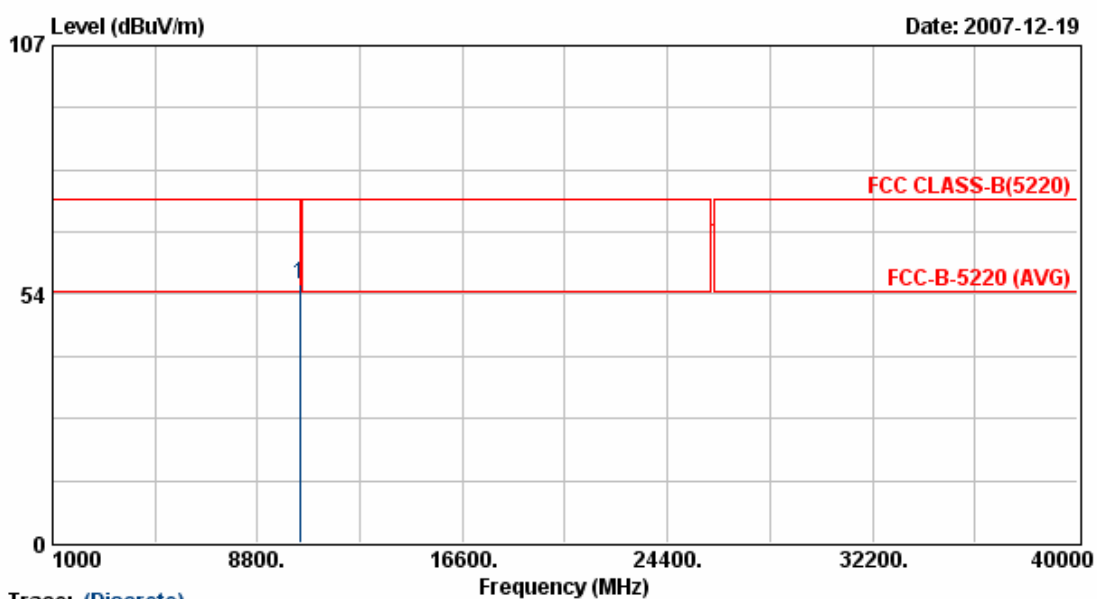


Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10380.13	42.87	13.16	56.02	68.30	-12.28	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 42	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



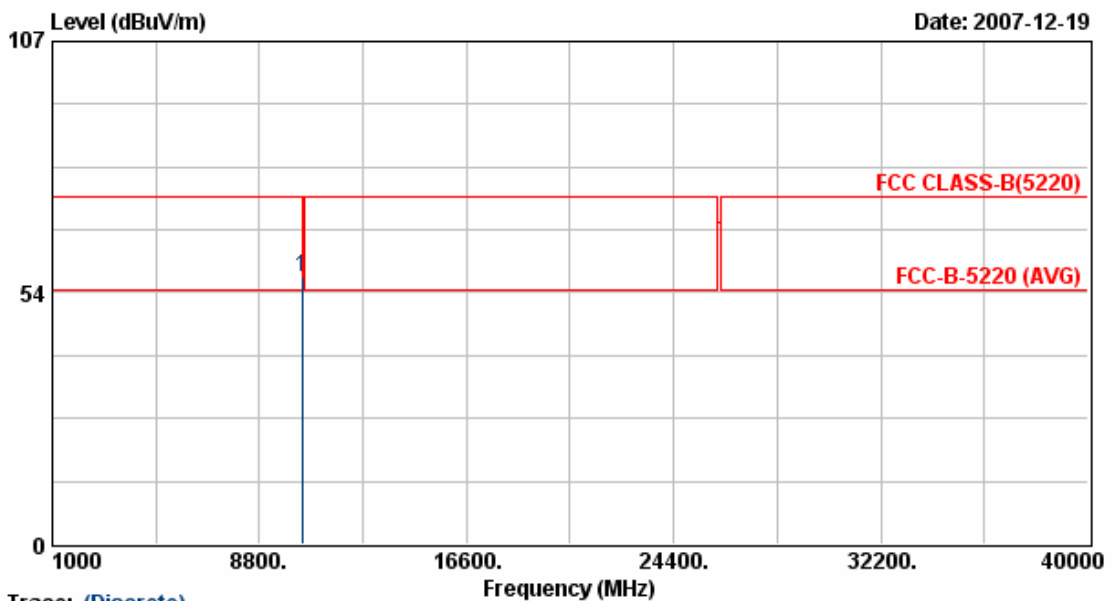
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10420.13	42.56	13.20	55.76	68.30	-12.54	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 42	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



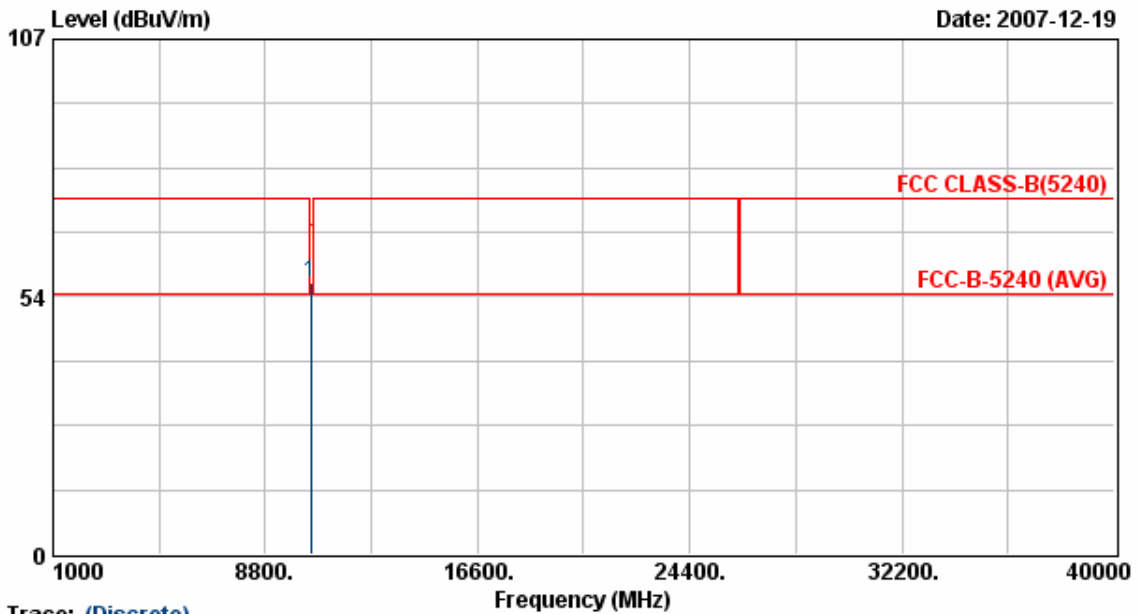
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10420.63	43.57	13.20	56.77	68.30	-11.53	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 46	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



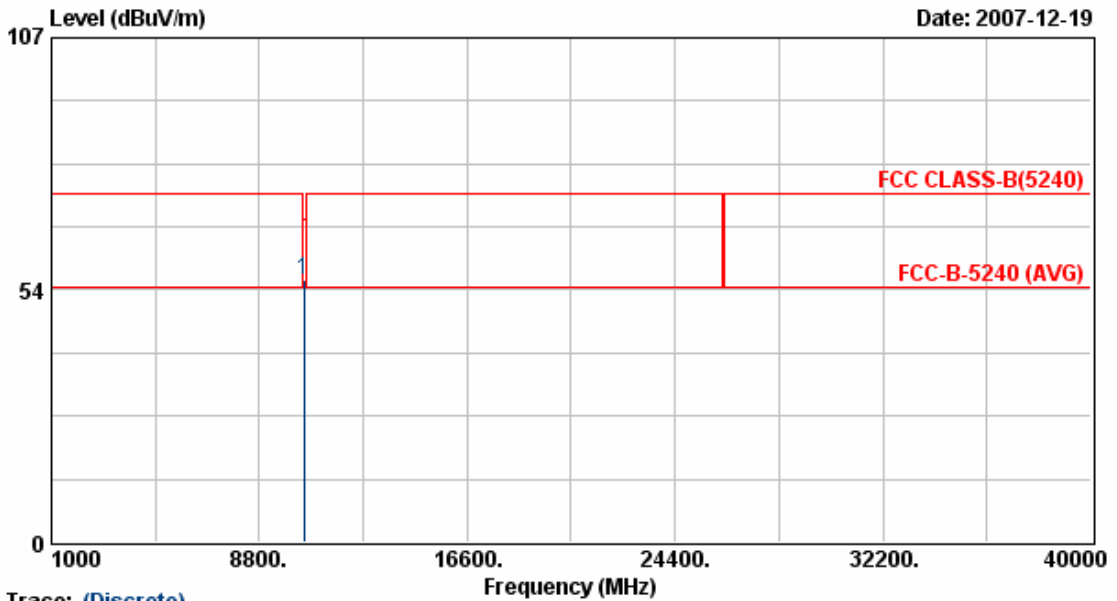
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10459.63	43.22	13.25	56.47	68.30	-11.83	Peak	100	194

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: HORIZONTAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 46	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



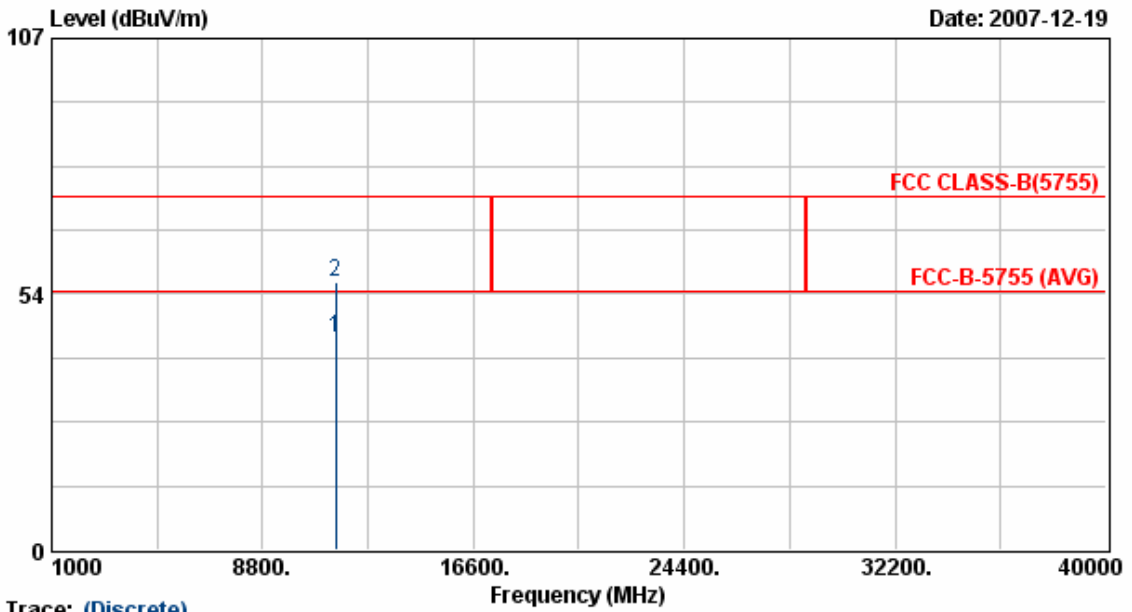
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	10460.00	42.56	13.25	55.81	68.30	-12.49	Peak	100	201

Notes:

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

Power	: DC 5V from PC	Pol/Phase	: VERTICAL
Test Mode 2	: Transmit / Receive	Temperature	: 22 °C
Operation Channel	: 151	Humidity	: 70 %
Modulation Type	: 802.11Draft n 40MHz	Atmospheric Pressure	: 1030 hPa
Memo	:	Rate	: 13.5 Mbps



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11509.75	29.86	14.41	44.26	54.00	-9.74	Average	100	194
2	11509.75	41.47	14.41	55.87	74.00	-18.13	Peak	100	194

Notes:

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

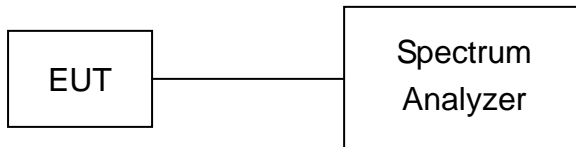
Test engineer: Ben

6. Peak Transmit Power

6.1. Test Procedure

The antenna port (RF output) of the EUT was connected to the input (RF input) of a spectrum analyzer. Power was read directly from the spectrum analyzer 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.

6.2. Test Setup Layout



6.3. Measurement equipment

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

6.4. Test Result and Data

- (1) Modulation Standard: IEEE 802.11a (6Mbps)

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

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)	26dB Occupied Bandwidth (MHz)
36	5180	16.88	48.8	22.8
44	5220	16.99	49.9	22.9
48	5240	16.91	49.1	23.1

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

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

Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)	26dB Occupied Bandwidth (MHz)	
		TX0	TX1	Total		TX0	TX1
36	5180	13.18	14.41	16.85	48.4	23.80	23.30
44	5220	13.69	14.23	16.98	49.9	23.50	23.00
48	5240	13.60	14.24	16.94	49.4	23.20	23.10

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

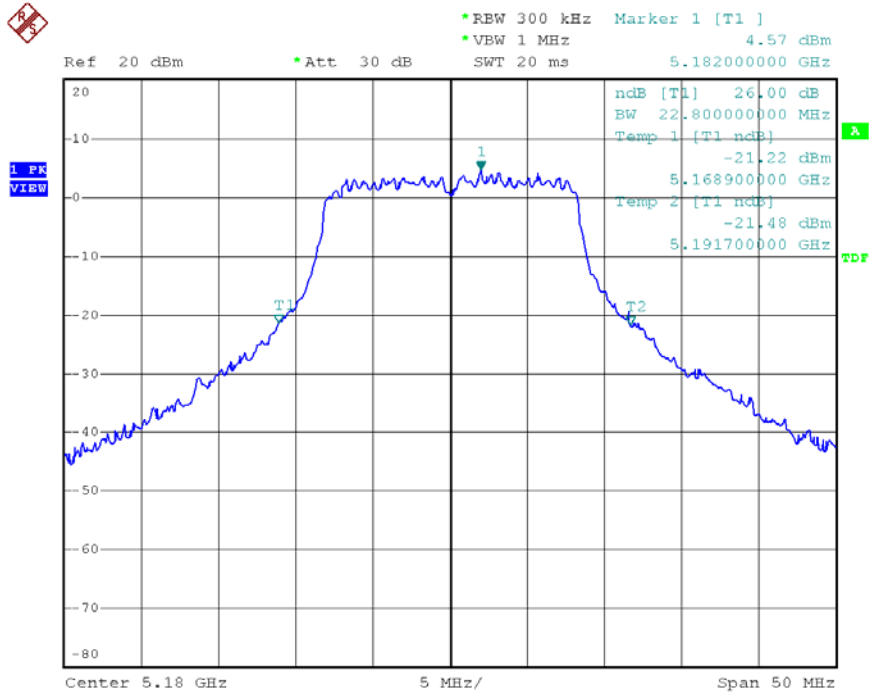
Test Date: Dec. 21, 2007 Temperature: 25 Humidity: 60% Atmospheric pressure: 1008 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)	26dB Occupied Bandwidth (MHz)	
		TX0	TX1	Total		TX0	TX1
38	5190	13.52	14.18	16.87	48.6	45.20	43.60
42	5210	13.31	14.48	16.94	49.4	45.00	44.00
46	5230	13.01	14.41	16.92	49.2	45.40	44.60

Peak Transmit Power

Modulation Standard: 802.11a (6Mbps)

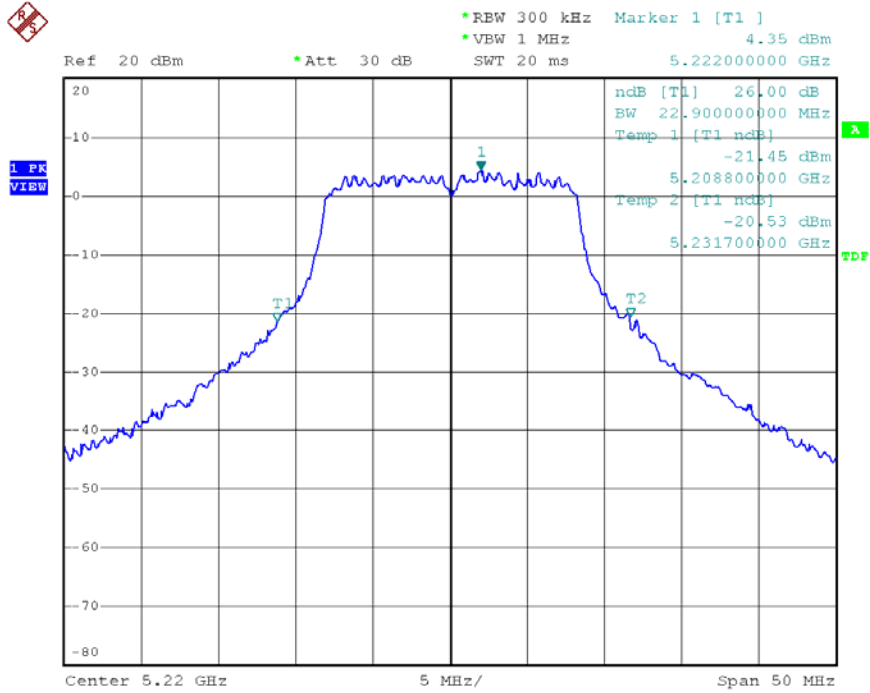
Channel: 36



Date: 21.DEC.2007 00:41:18

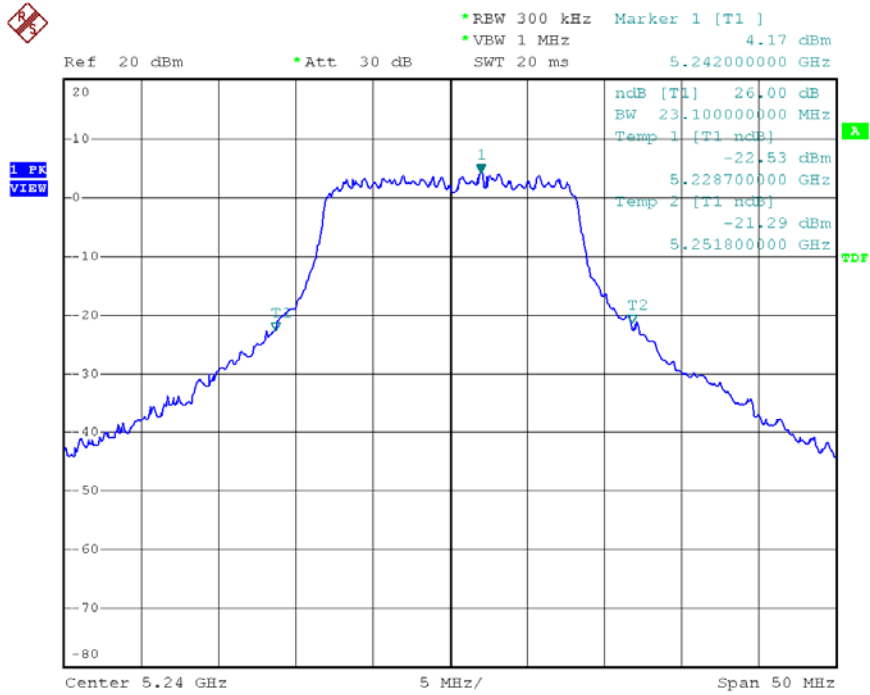
Modulation Standard: 802.11a (6Mbps)

Channel: 44



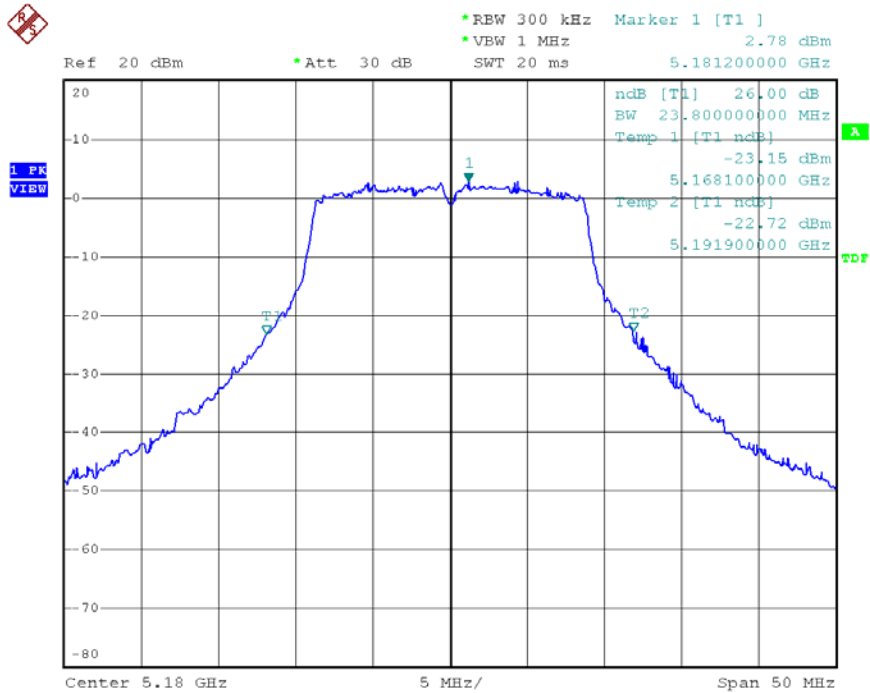
Date: 21.DEC.2007 00:44:55

Modulation Standard: 802.11a (6Mbps)
 Channel: 48



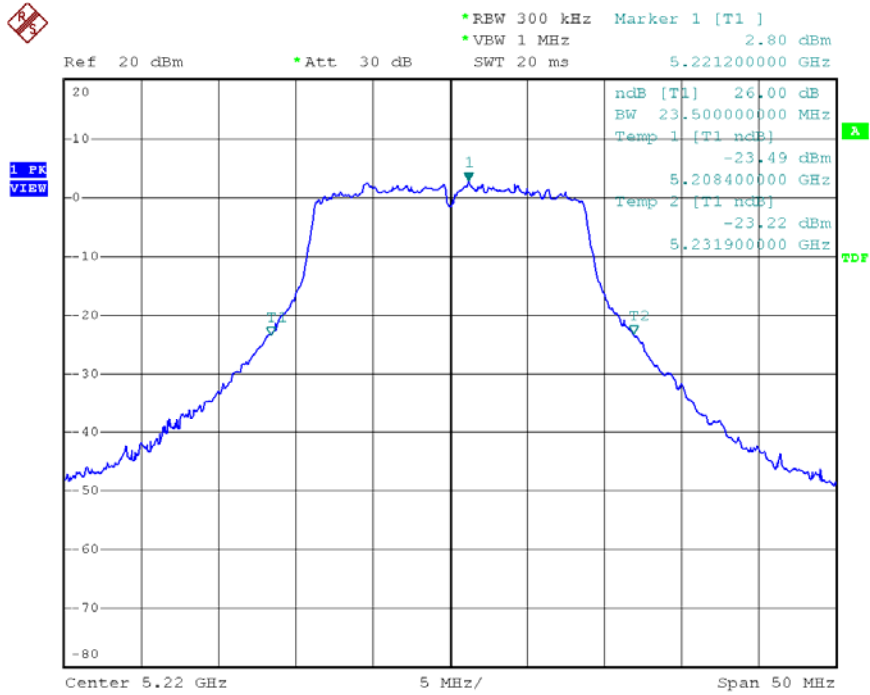
Date: 21.DEC.2007 00:48:57

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) –TX0
 Channel: 36



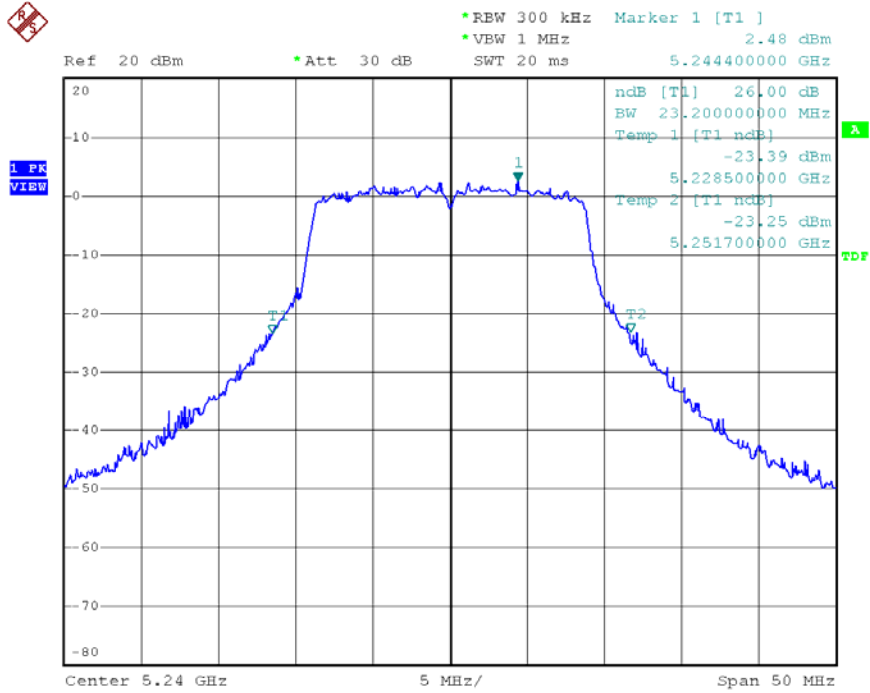
Date: 12.DEC.2007 17:58:39

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 44



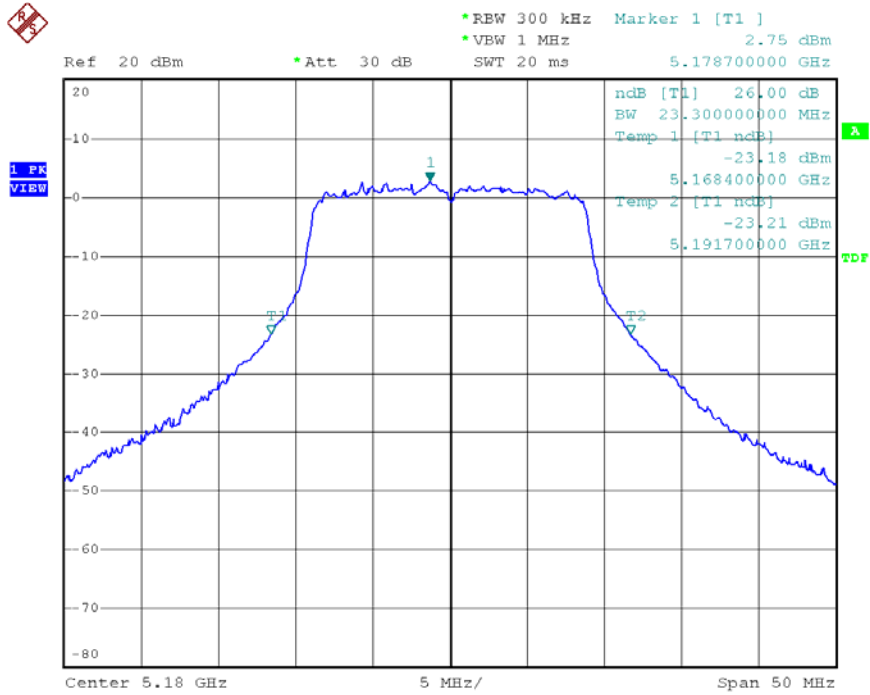
Date: 12.DEC.2007 18:15:22

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 48



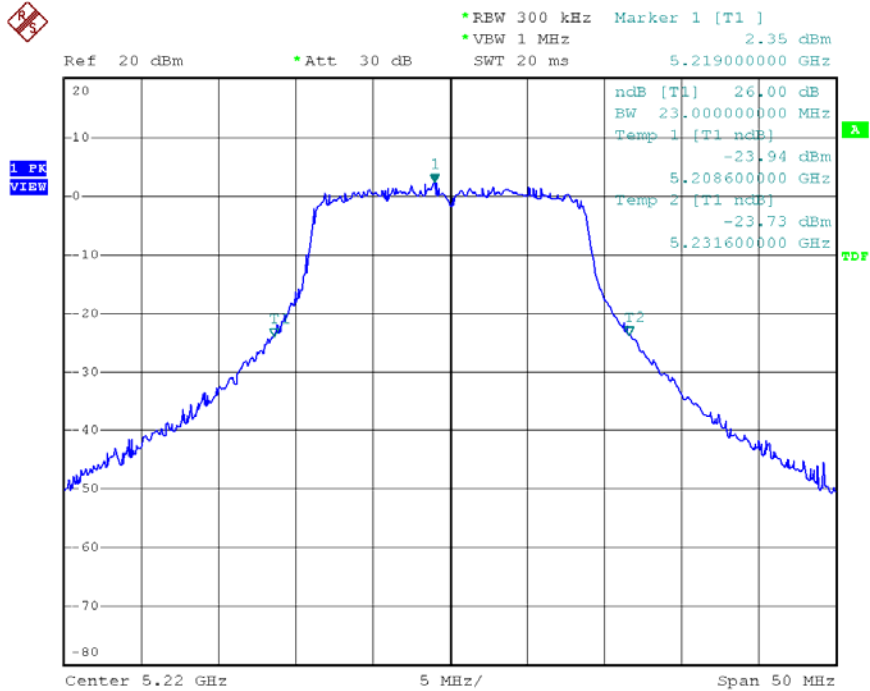
Date: 12.DEC.2007 18:21:51

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps)- TX1
 Channel: 36



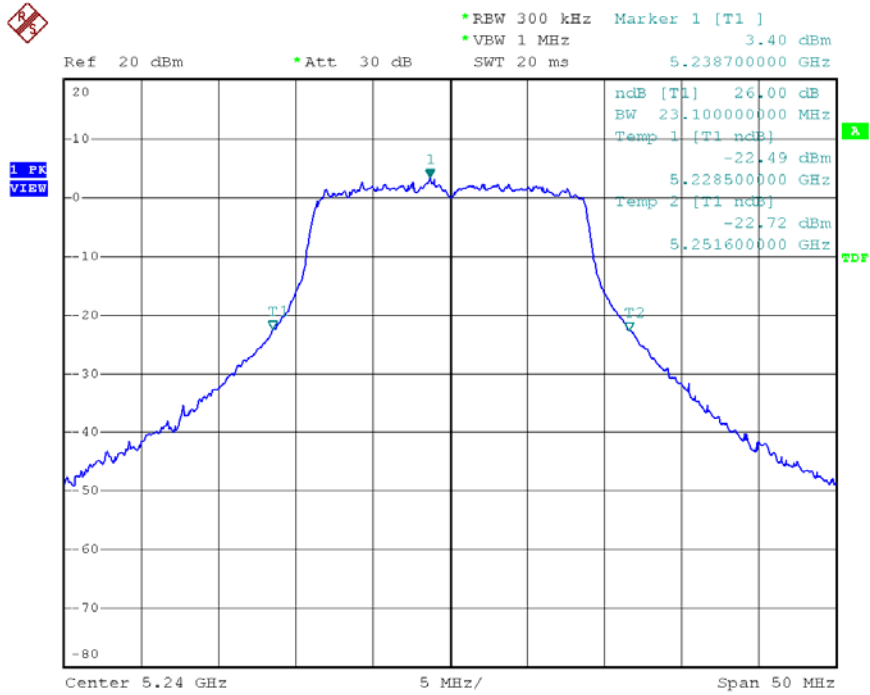
Date: 12.DEC.2007 18:03:42

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps)-TX1
 Channel: 44



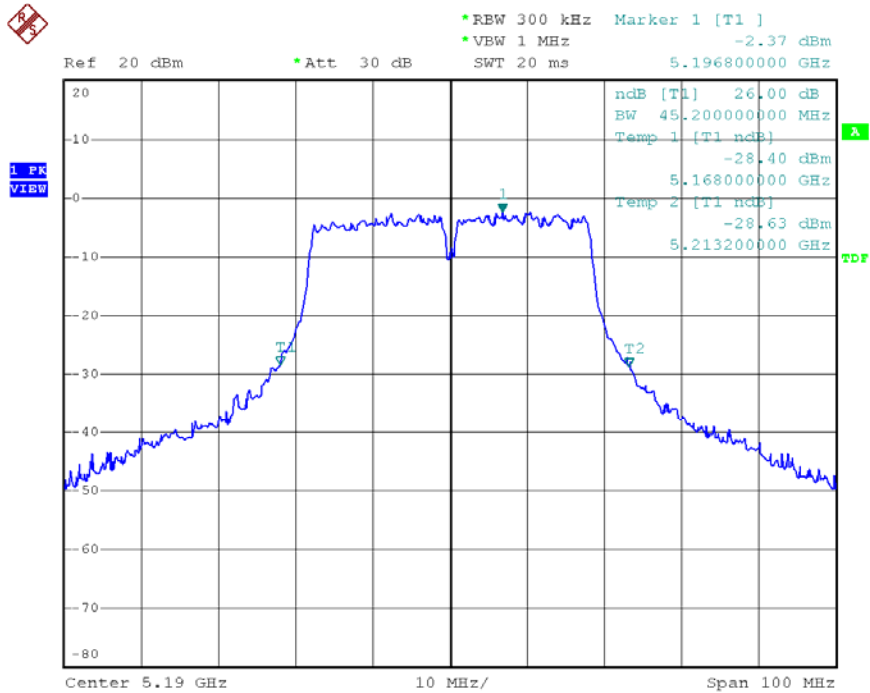
Date: 12.DEC.2007 18:12:31

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps)- TX1
 Channel: 48



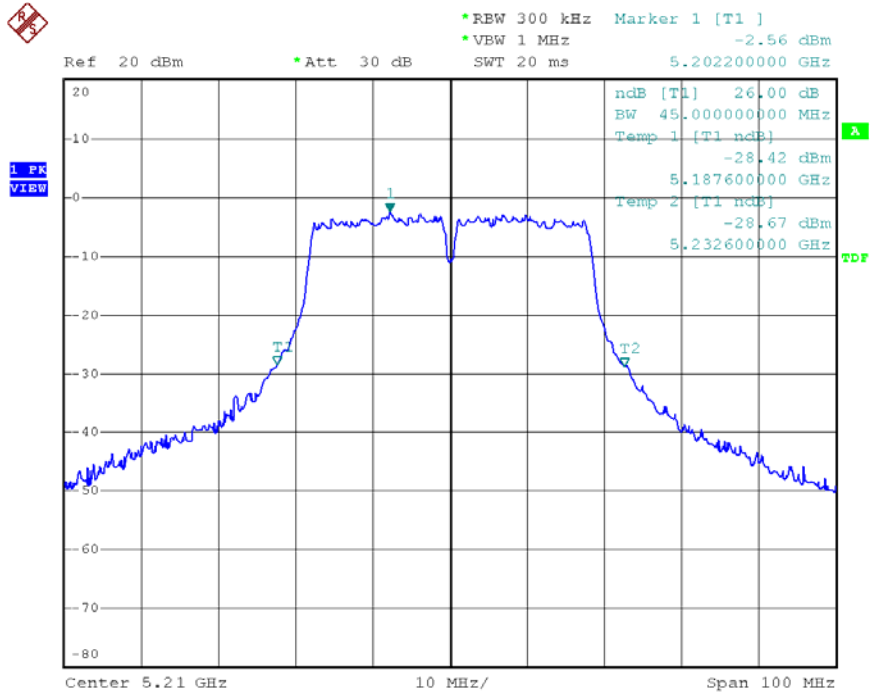
Date: 12.DEC.2007 18:23:47

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)- TX0
 Channel: 38



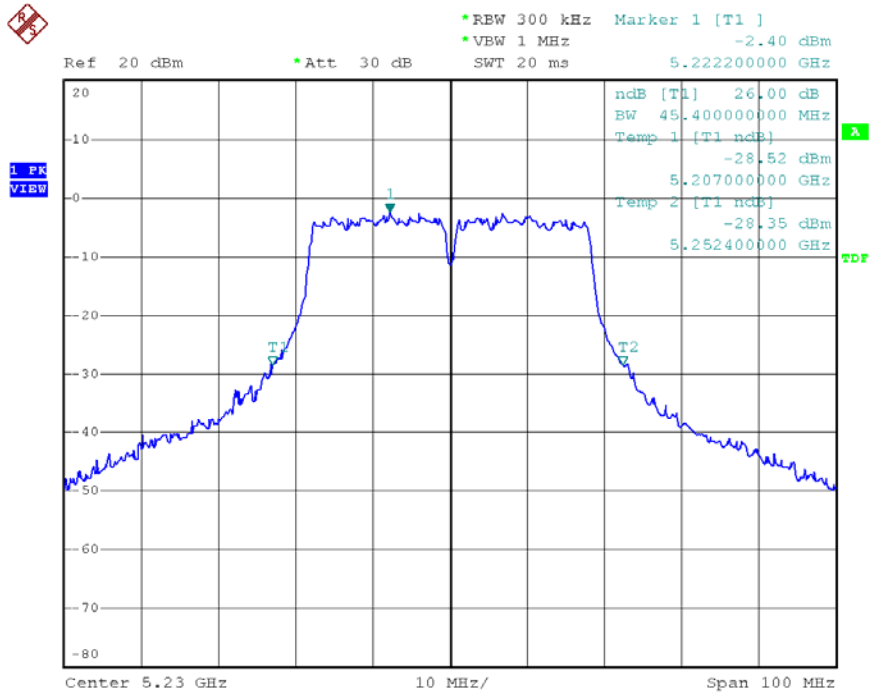
Date: 21.DEC.2007 02:47:30

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)- TX0
 Channel: 42



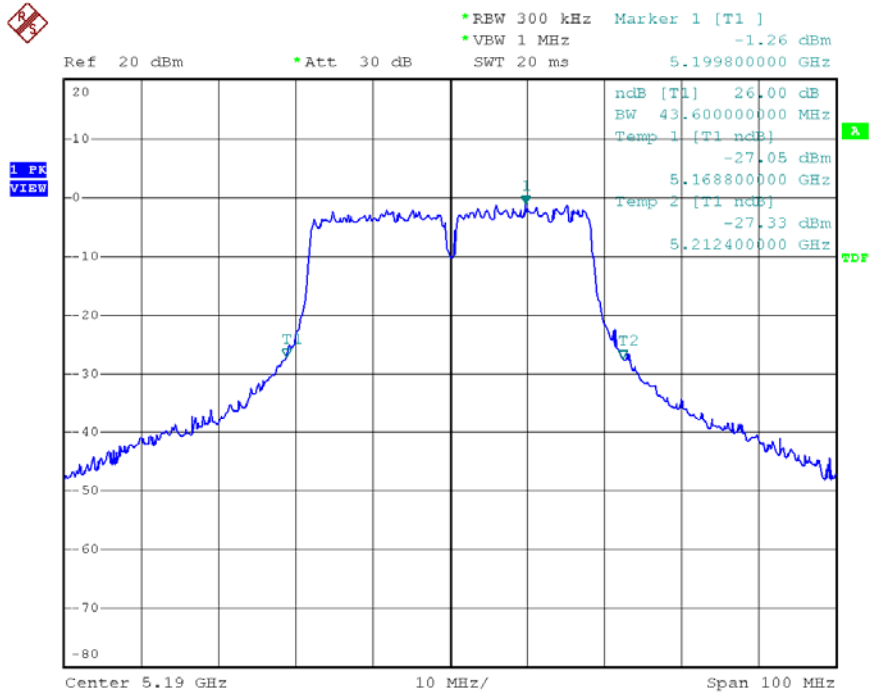
Date: 21.DEC.2007 02:58:02

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)- TX0
 Channel: 46



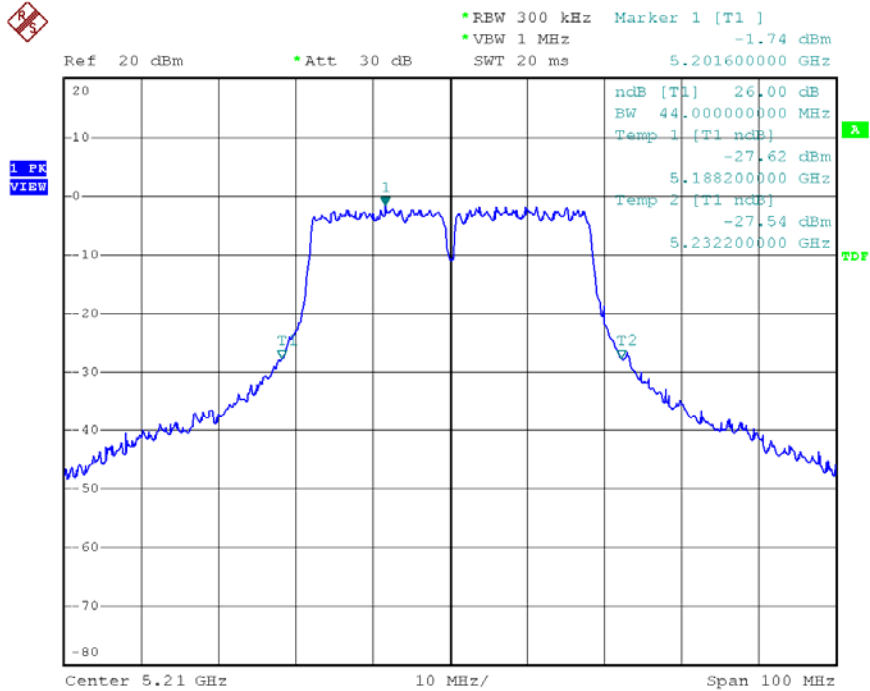
Date: 21.DEC.2007 03:04:40

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)- TX1
 Channel: 38



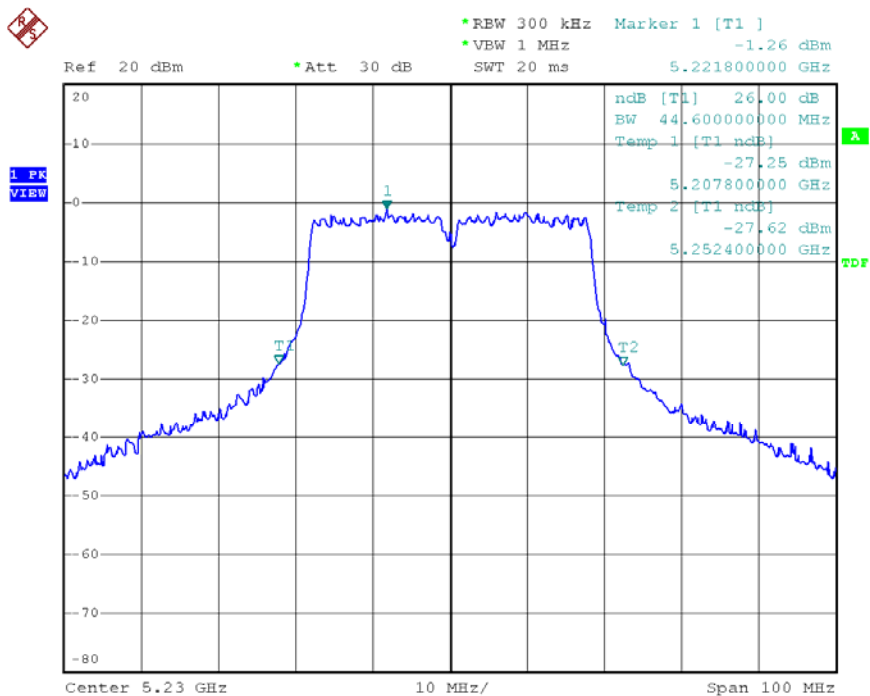
Date: 21.DEC.2007 02:38:40

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)- TX1
 Channel: 42



Date: 21.DEC.2007 02:57:14

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps)- TX1
 Channel: 46



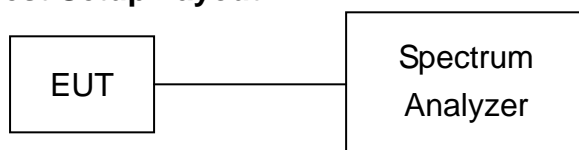
Date: 21.DEC.2007 03:03:38

7. Peak Power Excursion

7.1. Test Procedure

- The transmitter output was connected to the spectrum analyzer
- Using Peak detector and max-hold function for Trace 1 MHz and VBW to 3 MHz for Trace 1. Using average detector for Trace 2.
- Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz for Trace 1. Set RBW of spectrum analyzer to 1 MHz and VBW to 300 kHz for Trace 2.
- The largest difference between Trace 1 and Trace 2 in any 1 MHz band on any frequency was recorded.

7.2. Test Setup Layout



7.3. Measurement equipment

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

7.4. Test Result and Data

- (1) Modulation Standard: IEEE 802.11a (6Mbps)

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

Channel	Frequency (MHz)	Peak Power Excursion (dB)
36	5180	10.75
44	5220	10.66
48	5240	10.56

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

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

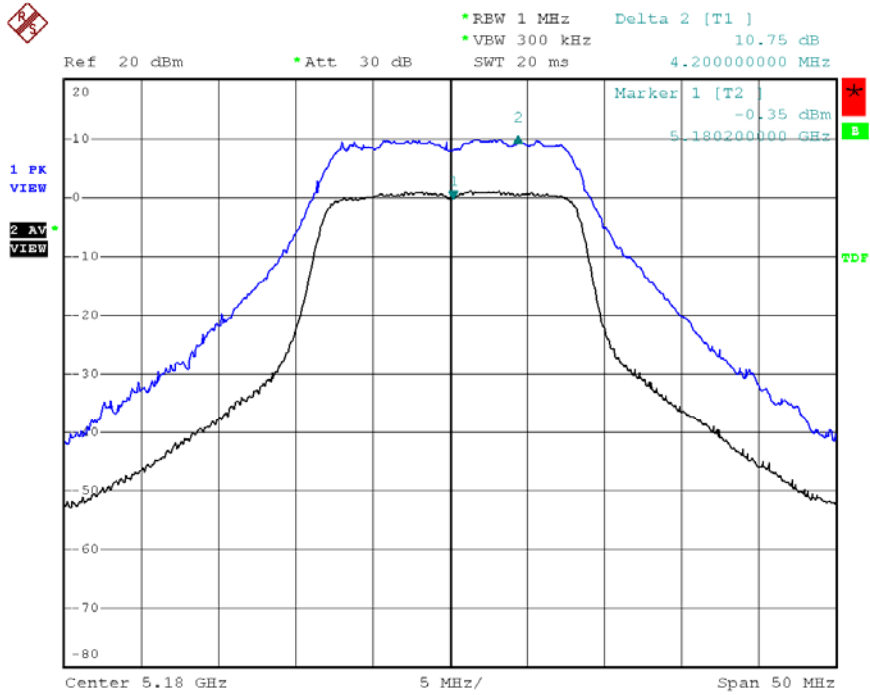
Channel	Frequency (MHz)	Peak Power Excursion	
		TX0 (dB)	TX1 (dB)
36	5180	8.74	10.66
44	5220	10.75	10.32
48	5240	9.01	10.96

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

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

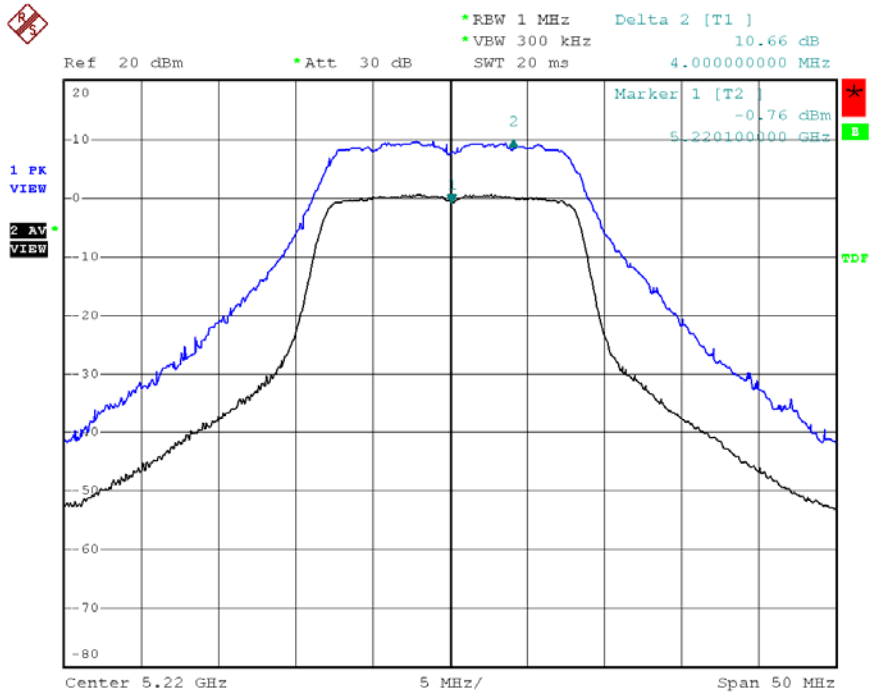
Channel	Frequency (MHz)	Peak Power Excursion	
		TX0 (dB)	TX1 (dB)
38	5190	12.05	11.73
42	5210	12.85	12.41
46	5230	12.50	12.40

Modulation Standard: 802.11a (6Mbps)
 Channel: 36



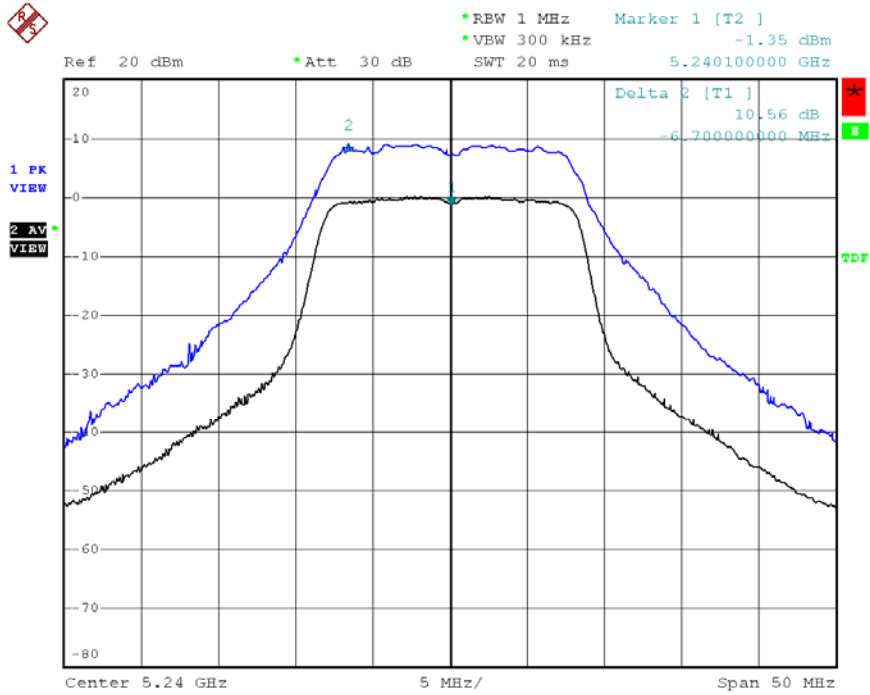
Date: 9.JAN.2008 16:51:43

Modulation Standard: 802.11a (6Mbps)
 Channel: 44



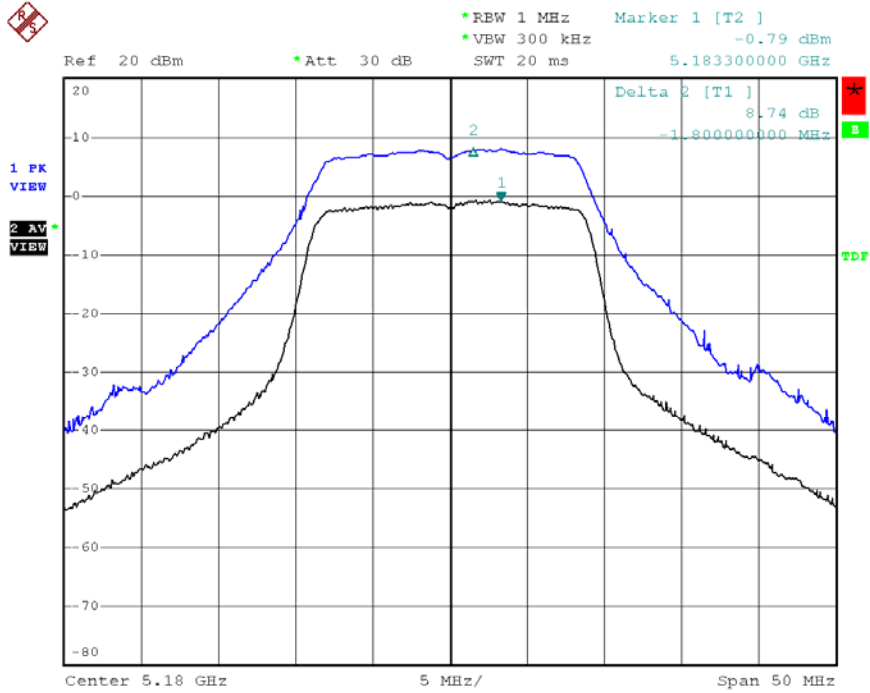
Date: 9.JAN.2008 16:53:22

Modulation Standard: 802.11a (6Mbps)
 Channel: 48



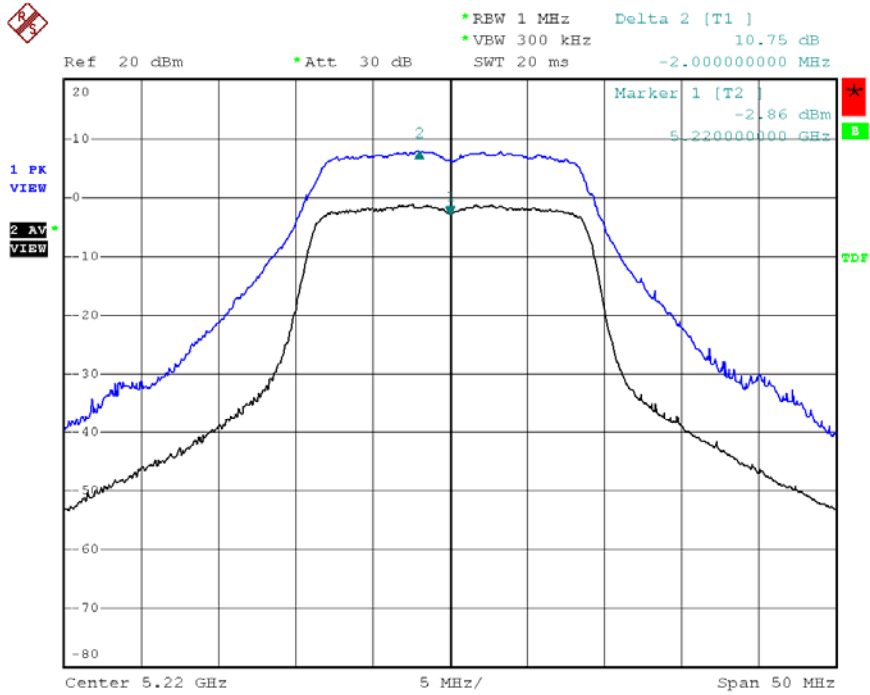
Date: 9.JAN.2008 16:54:27

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 36



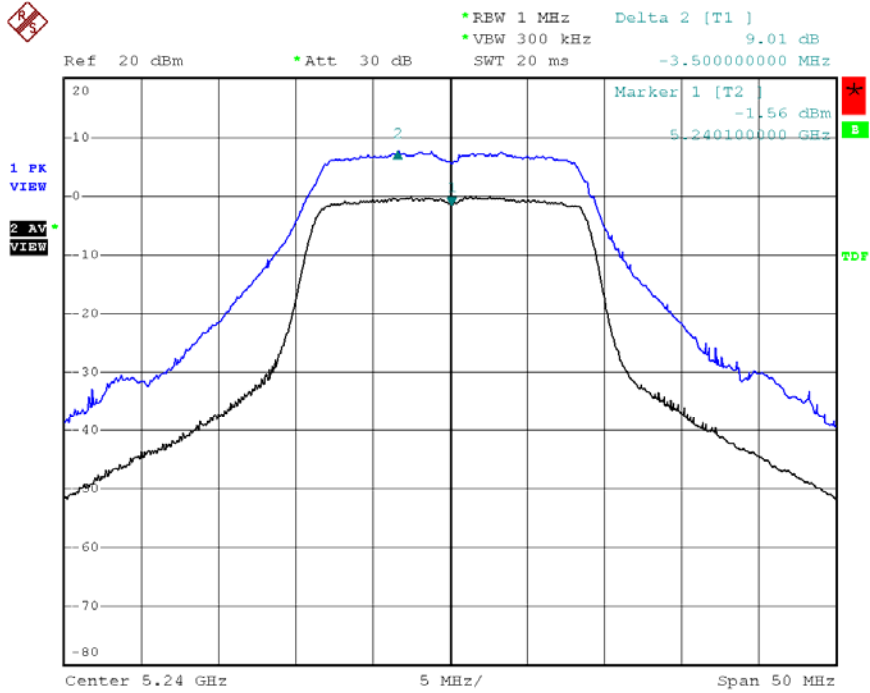
Date: 9.JAN.2008 17:07:02

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 44



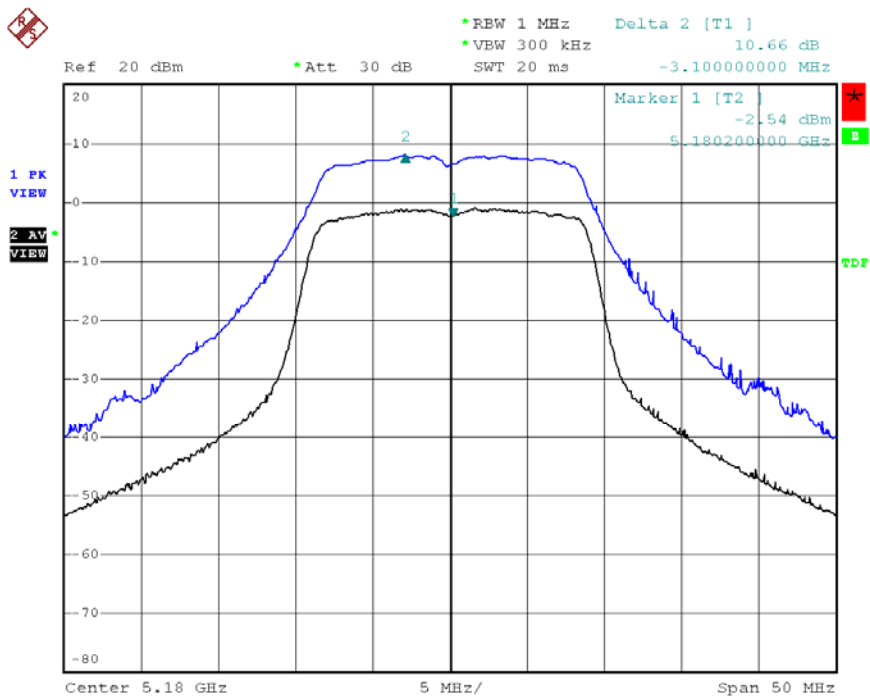
Date: 9.JAN.2008 17:05:34

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 48



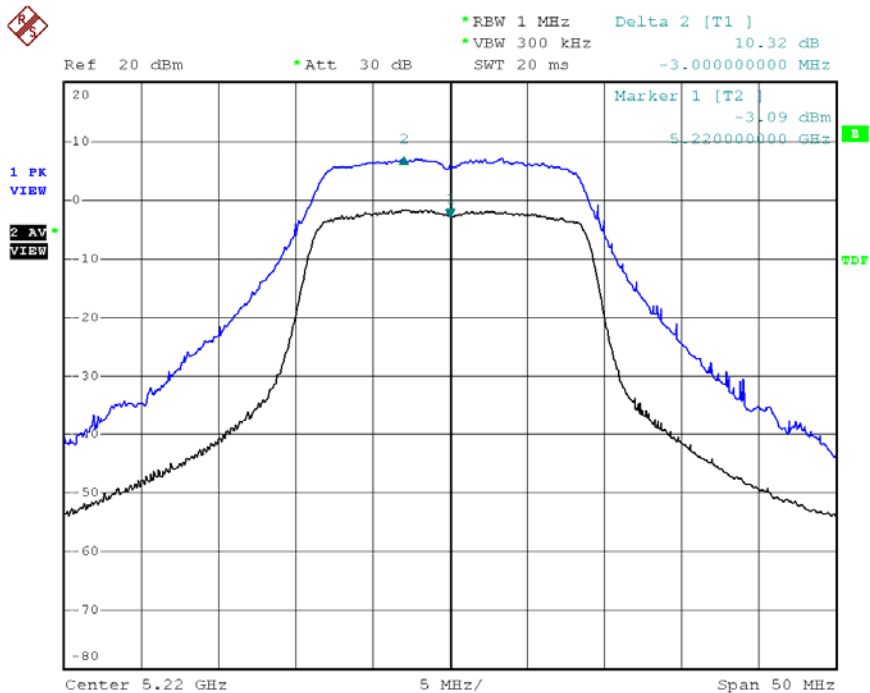
Date: 9.JAN.2008 16:58:39

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
 Channel: 36



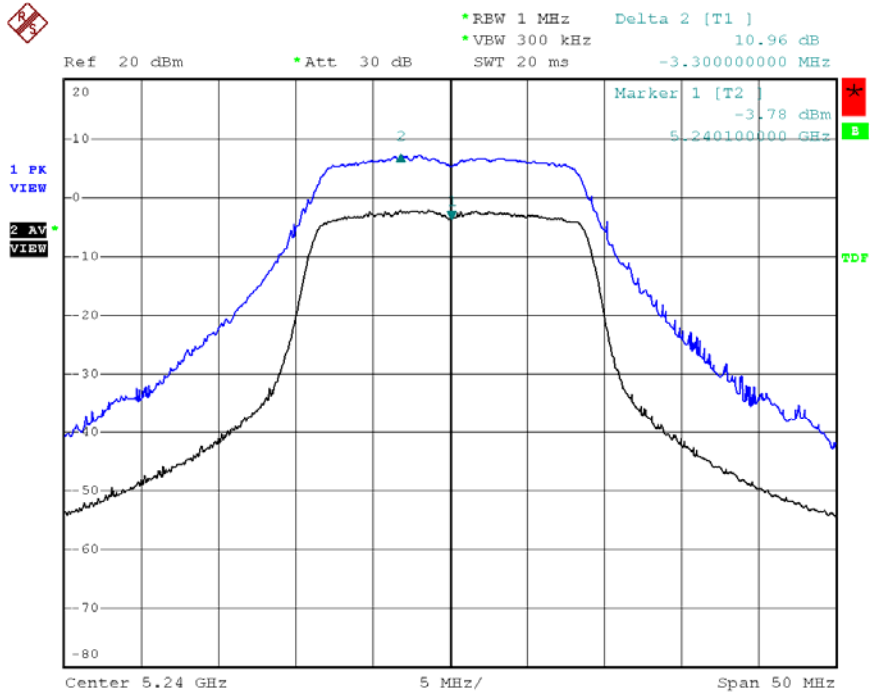
Date: 9.JAN.2008 17:08:13

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
 Channel: 44



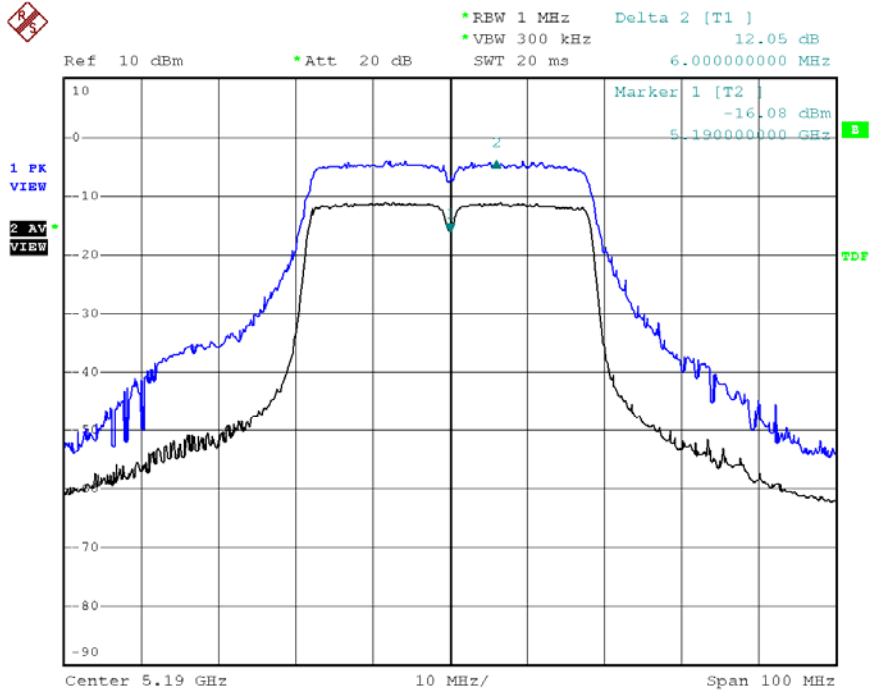
Date: 9.JAN.2008 17:04:12

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
 Channel: 48



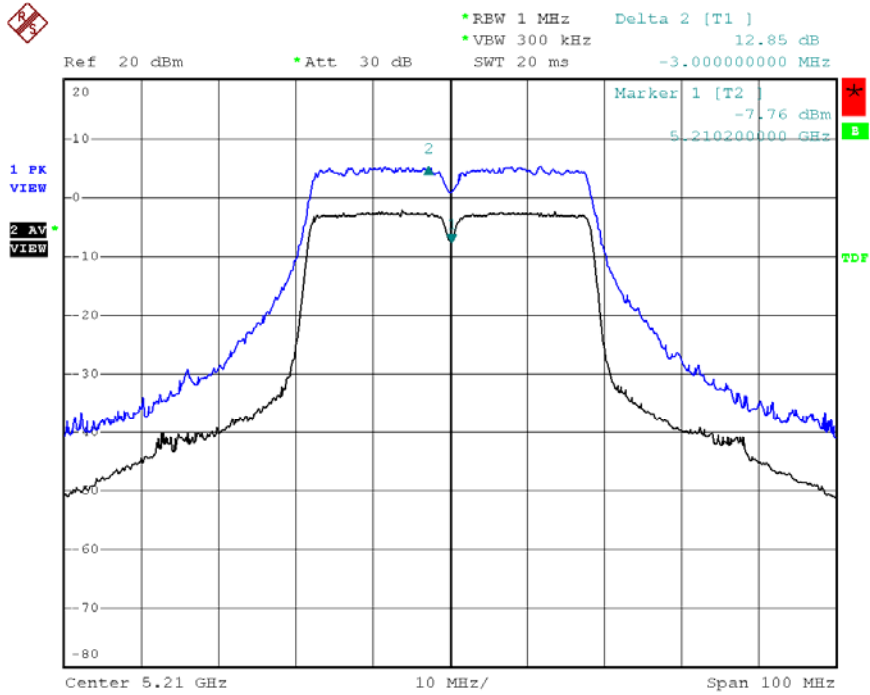
Date: 9.JAN.2008 17:01:30

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 38



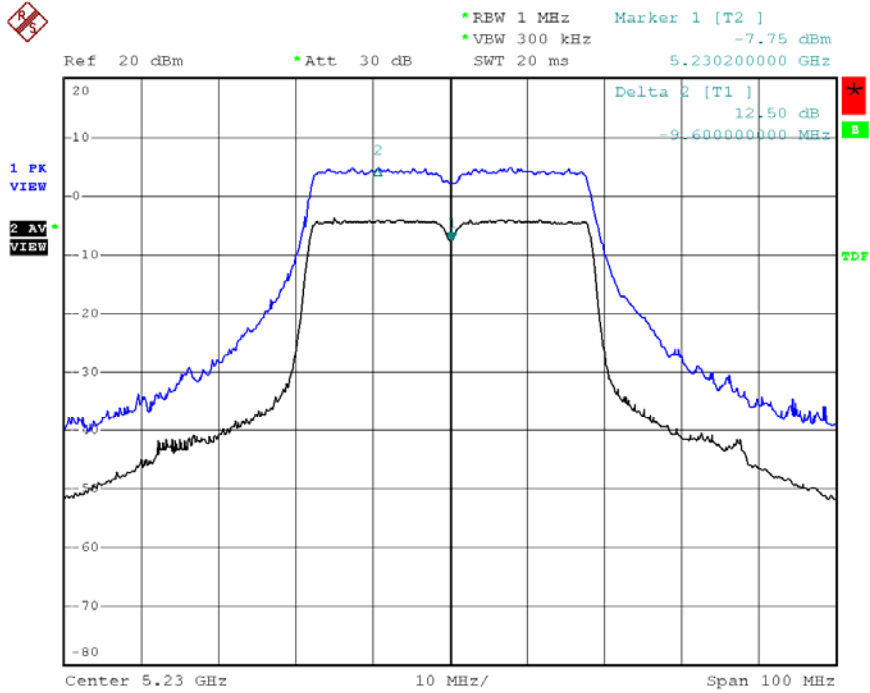
Date: 7.JAN.2008 10:36:28

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 42



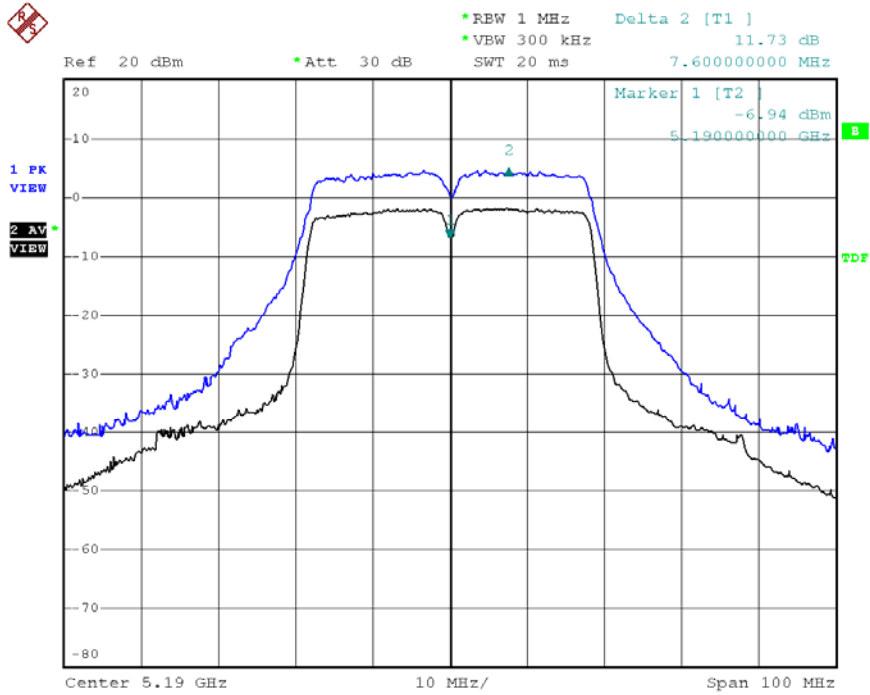
Date: 9.JAN.2008 17:15:09

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 46



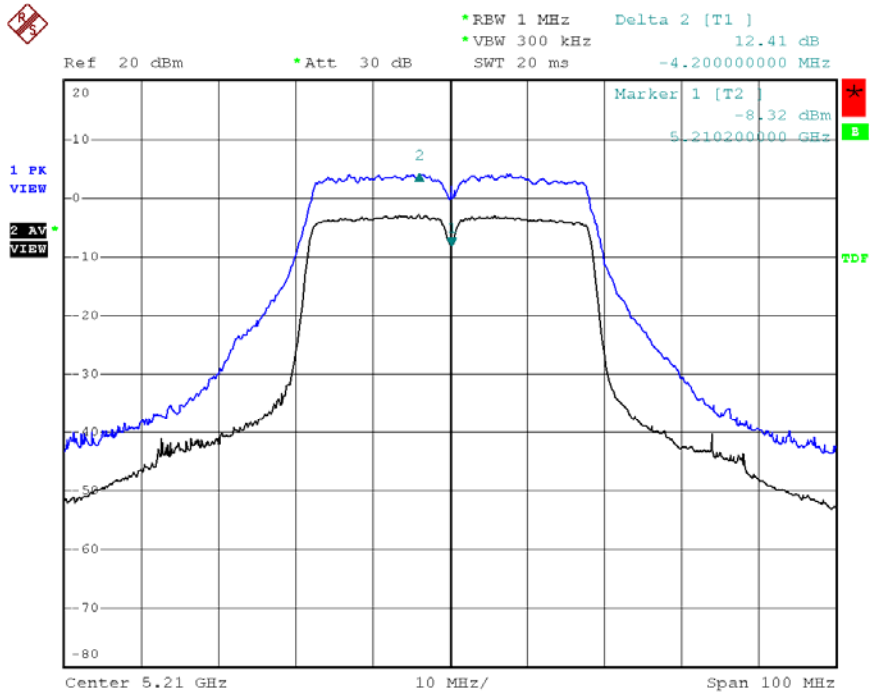
Date: 9.JAN.2008 17:20:40

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
 Channel: 38



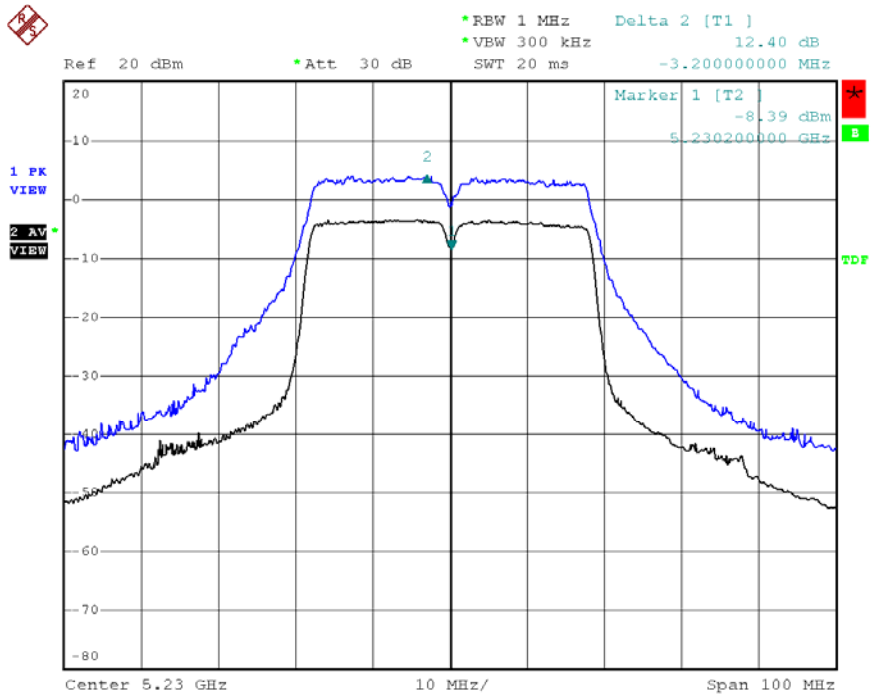
Date: 9.JAN.2008 17:12:41

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
 Channel: 42



Date: 9.JAN.2008 17:16:46

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
Channel: 46



Date: 9.JAN.2008 17:18:34

8. Peak Power Spectral Density

8.1. Test Procedure

1. The transmitter output was connected to spectrum analyzer.
2. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz
3. The Peak Power Spectral Density is the highest level found across the emission in any 1MHz Band

8.2. Test Setup Layout



8.3. Measurement equipment

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

8.4. Test Result and Data

- (1) Modulation Standard: IEEE 802.11a (6Mbps)

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

Channel	Frequency (MHz)	RF Power Level In 1MHz BW (dBm)
36	5180	-1.81
44	5220	-1.41
48	5240	-1.27

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

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

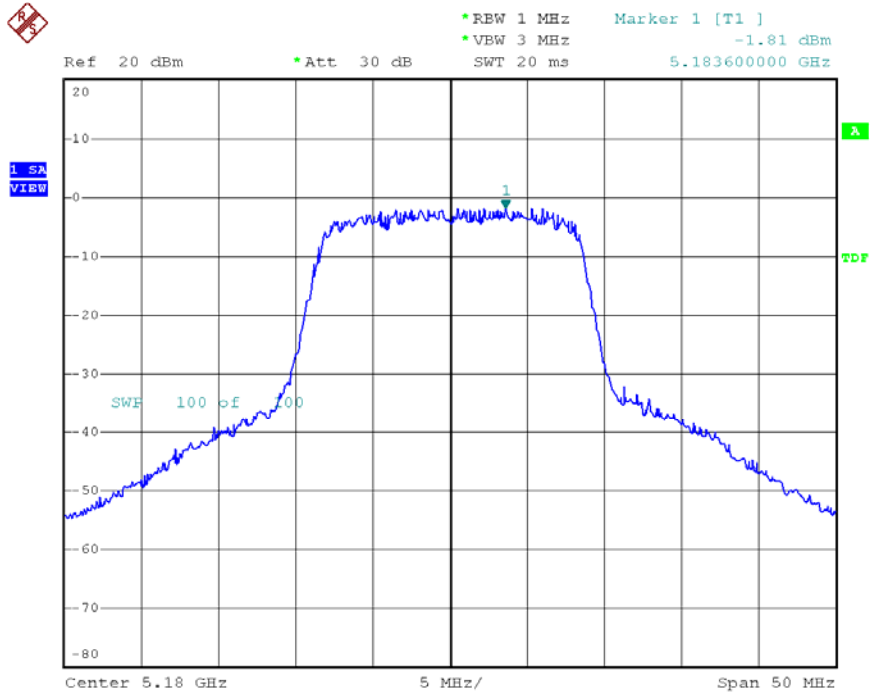
Channel	Frequency (MHz)	RF Power Level In 1MHz BW TX0 (dBm)	RF Power Level In 1MHz BW TX1 (dBm)	RF Power Level In 1MHz BW Total (dBm)
36	5180	-3.52	-3.29	-0.39
44	5220	-3.22	-3.11	-0.15
48	5240	-4.53	-3.08	-0.73

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

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

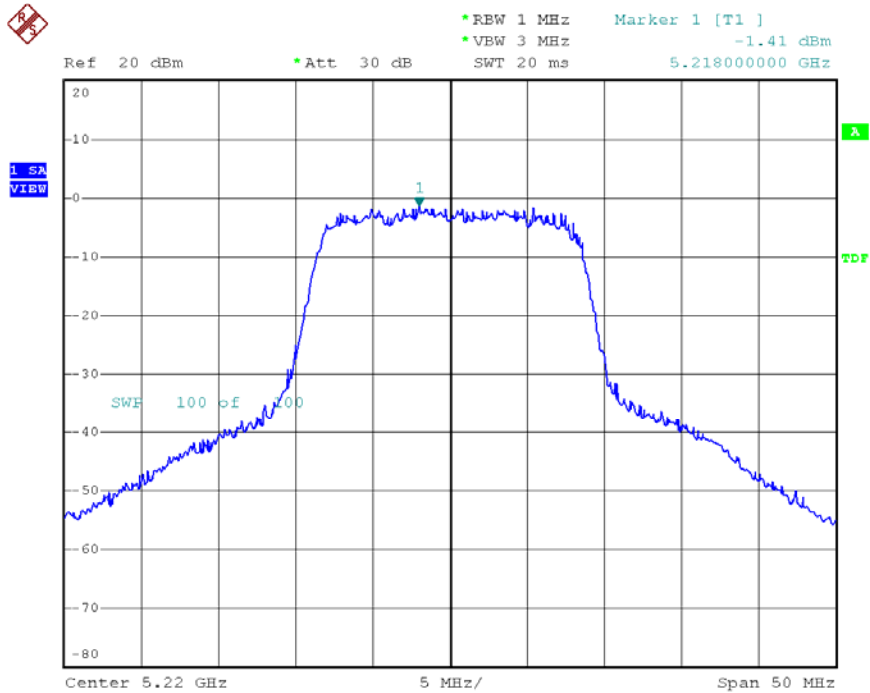
Channel	Frequency (MHz)	RF Power Level In 1MHz BW TX0 (dBm)	RF Power Level In 1MHz BW TX1 (dBm)	RF Power Level In 1MHz BW Total (dBm)
38	5190	-3.52	-3.29	-0.39
42	5210	-3.22	-3.11	-0.15
46	5230	-4.53	-3.08	-0.73

Modulation Standard: 802.11a (6Mbps)
 Channel: 36



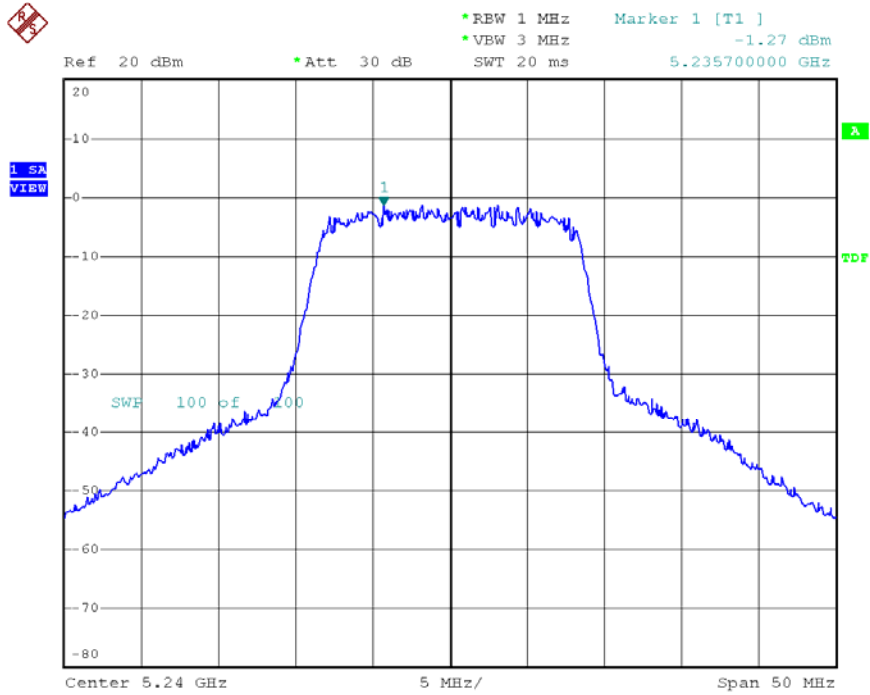
Date: 21.DEC.2007 01:02:50

Modulation Standard: 802.11a (6Mbps)
 Channel: 44



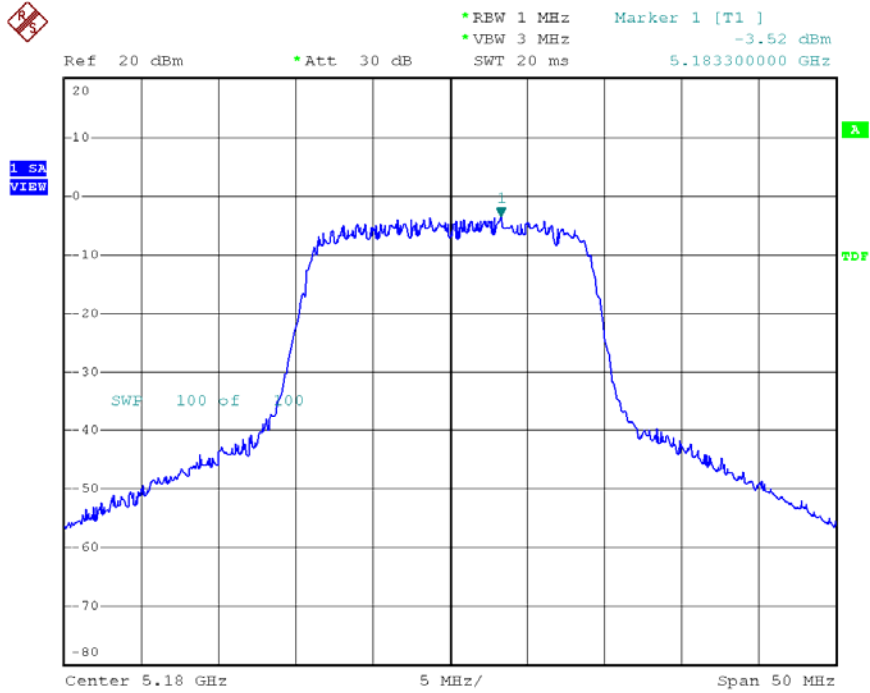
Date: 21.DEC.2007 01:03:46

Modulation Standard: 802.11a (6Mbps)
 Channel: 48



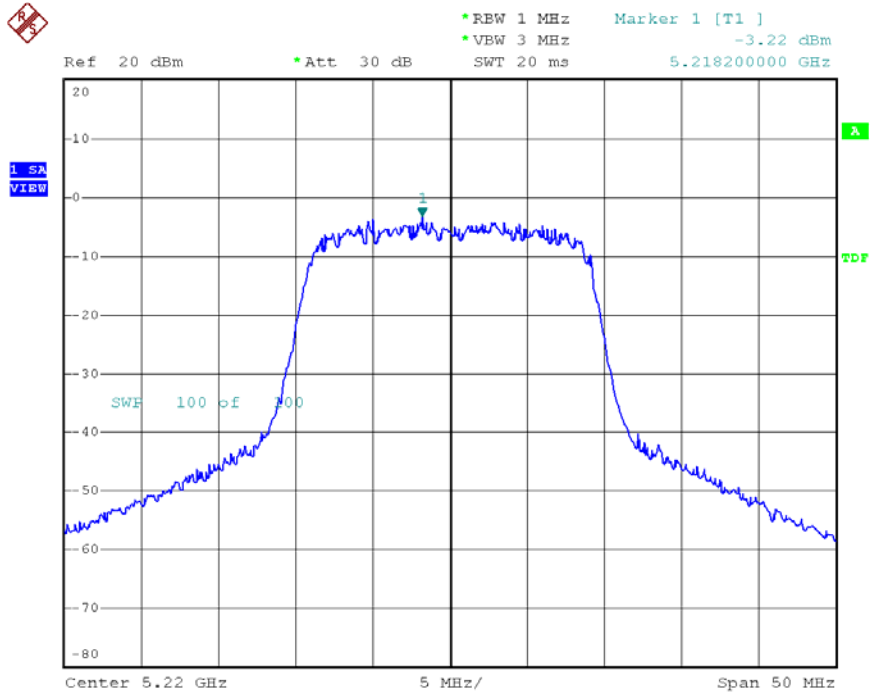
Date: 21.DEC.2007 01:04:14

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 36



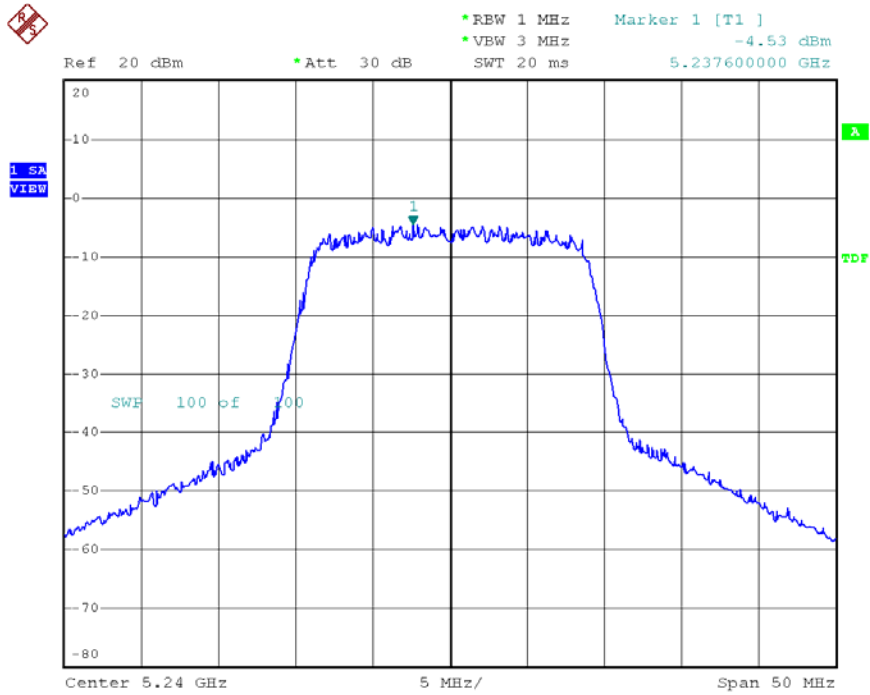
Date: 21.DEC.2007 02:09:49

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 44



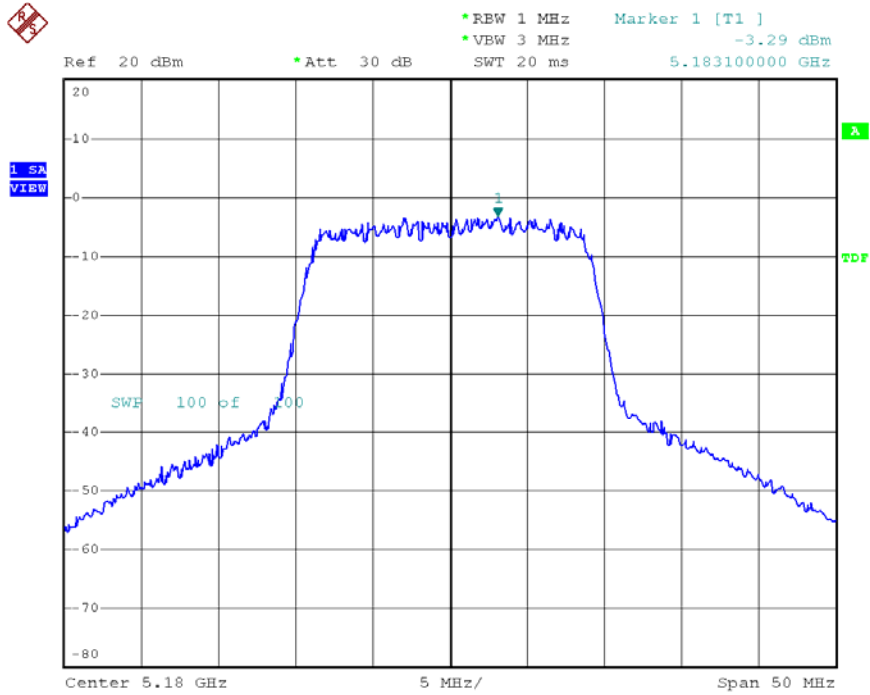
Date: 21.DEC.2007 02:08:32

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 48



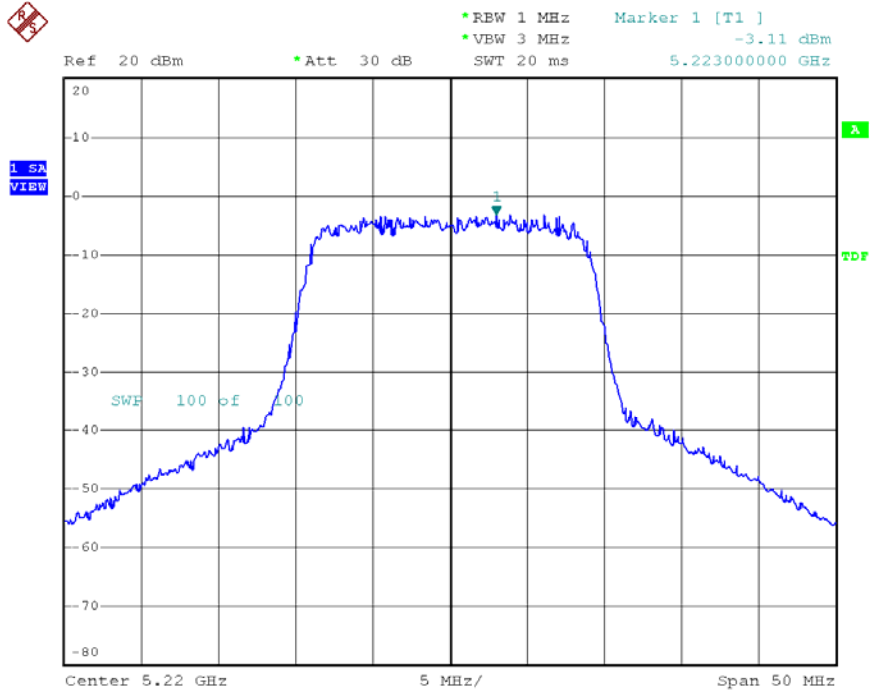
Date: 21.DEC.2007 02:11:34

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
 Channel: 36



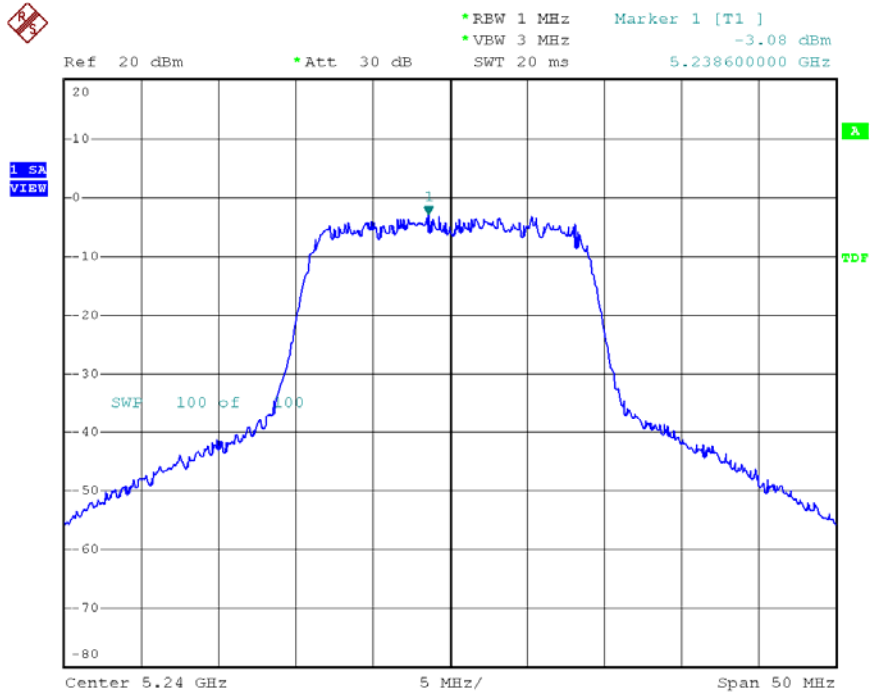
Date: 21.DEC.2007 02:06:59

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
 Channel: 44



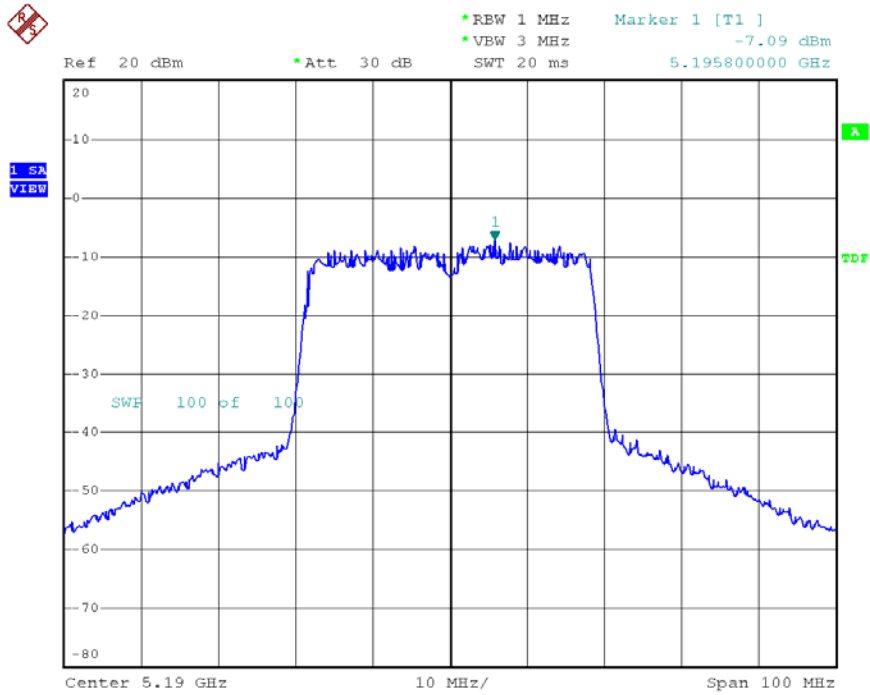
Date: 21.DEC.2007 02:10:22

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
 Channel: 48



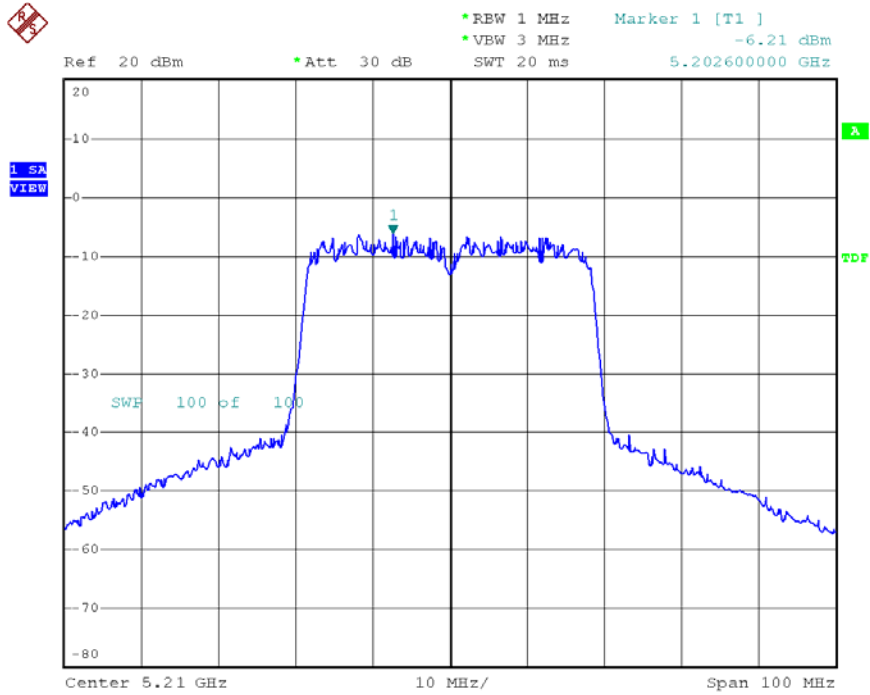
Date: 21.DEC.2007 02:11:03

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 38



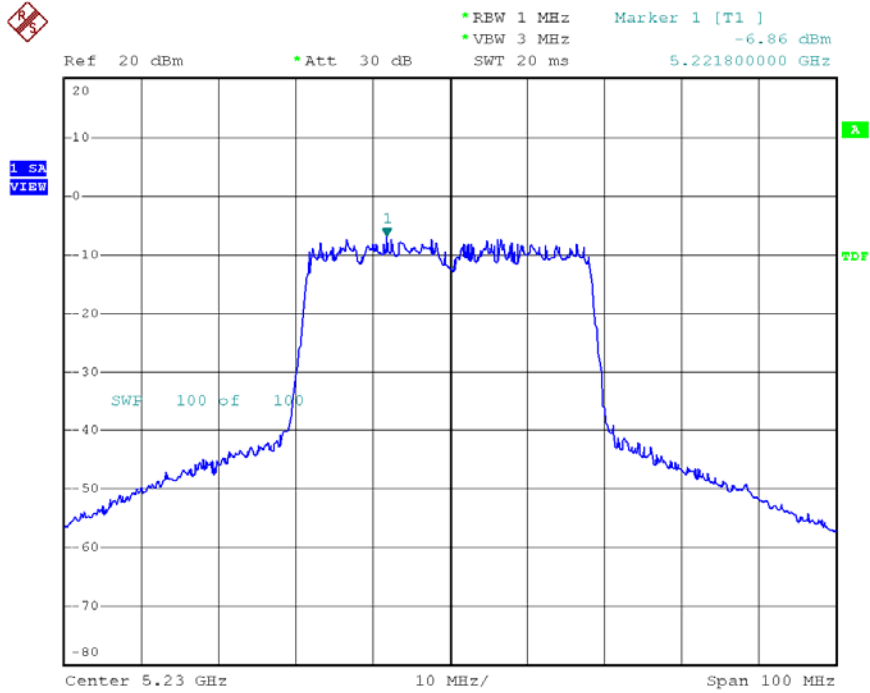
Date: 21.DEC.2007 03:18:48

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 42



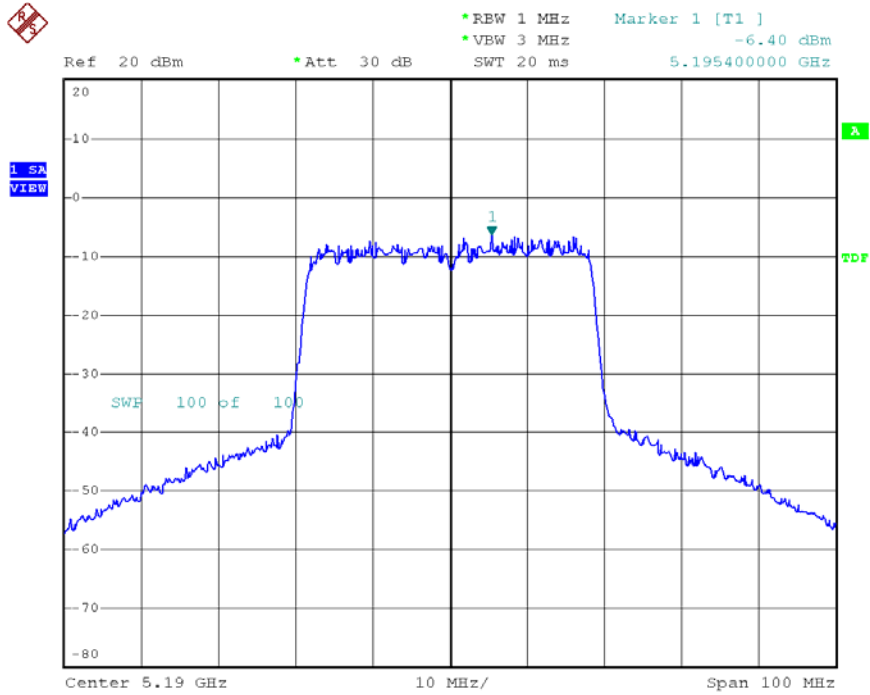
Date: 21.DEC.2007 03:20:28

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 46



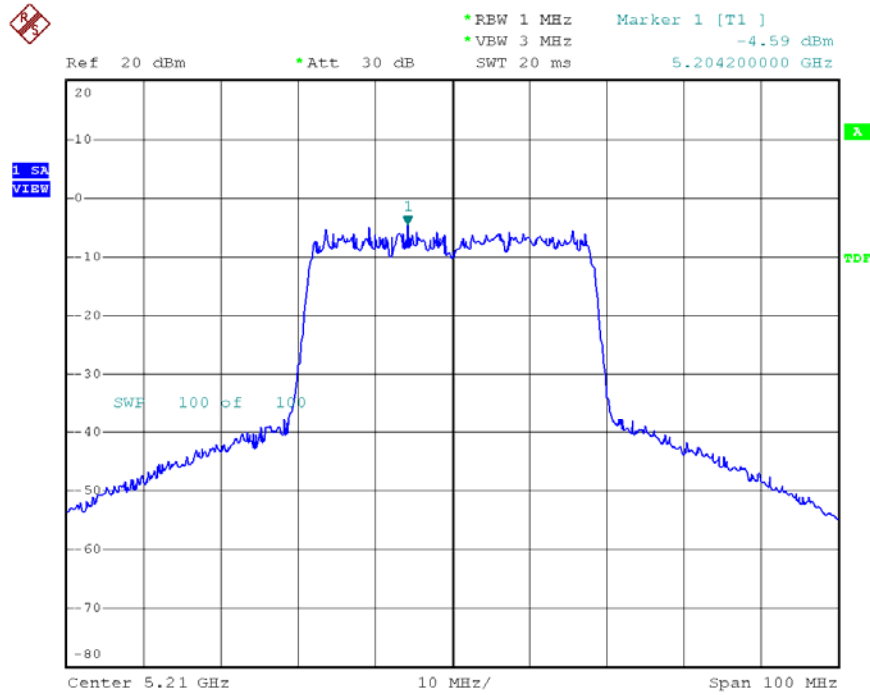
Date: 21.DEC.2007 03:20:58

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
 Channel: 36



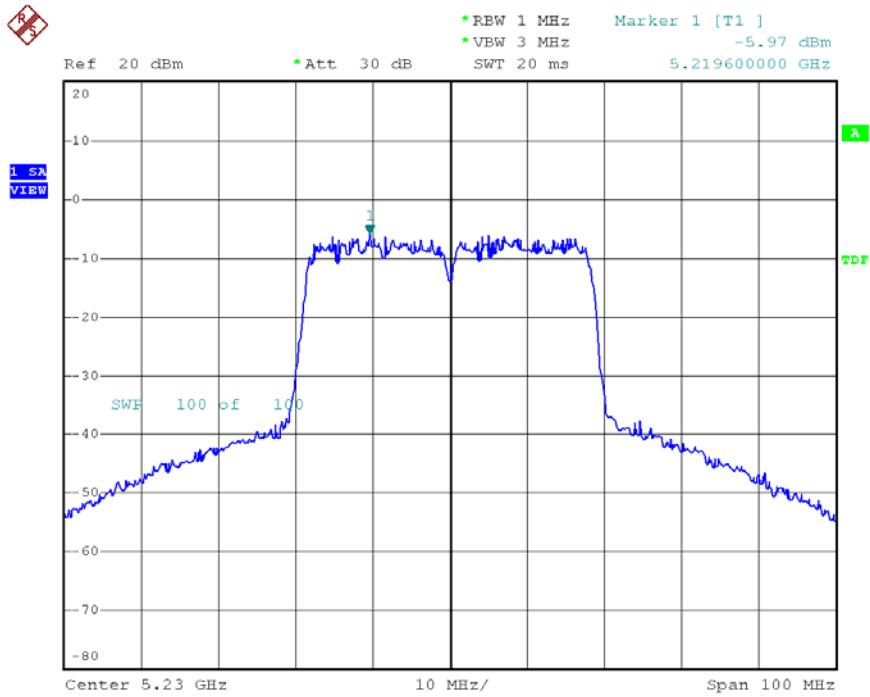
Date: 21.DEC.2007 03:19:15

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
 Channel: 42



Date: 21.DEC.2007 03:19:47

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
Channel: 46



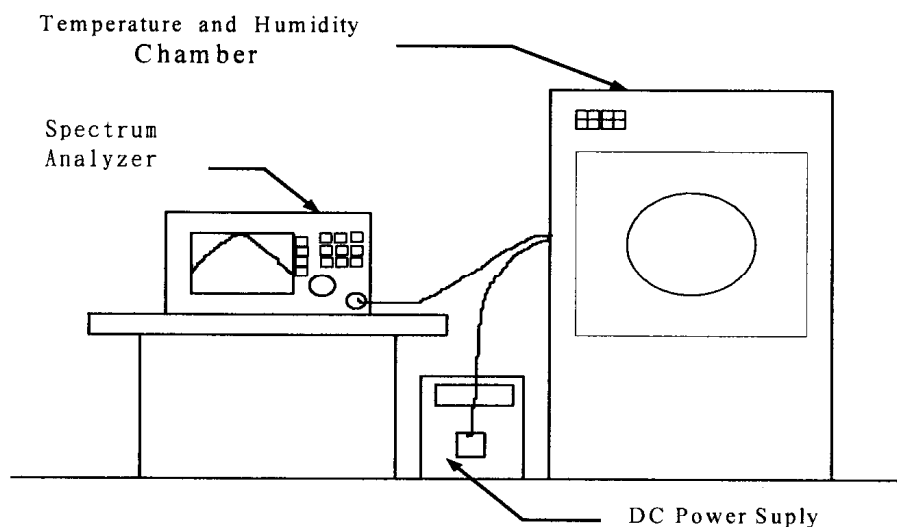
Date: 21.DEC.2007 03:21:27

9. Frequency Stability

9.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

9.2. Test Setup Layout



9.3. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/23	2008/01/22
Temperature Chamber	TMJ-9712	T MACHINE	T-12-040111	2007/01/24	2008/01/23
DC Power Supply	GPD-3030	GM	7020936	N/A	N/A
AC POWER CONVERTER	AFC-11005	APC	F103120008	N/A	N/A

9.4. Test Result and Data

Modulation Standard: IEEE 802.11a (6MHz)							
Operating frequency: 5240 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5239.9211	-0.001506	5239.9757	-0.000845	5239.9857	-0.000273
	110	5239.9481	-0.000990	5239.9782	-0.000473	5239.9748	-0.000481
	126.5	5239.9513	-0.000929	5239.9889	-0.000218	5239.9649	-0.000670
40	93.5	5239.9804	-0.000374	5239.9808	-0.000233	5239.9738	-0.000500
	110	5240.0079	0.000151	5239.9859	-0.000462	5240.0147	0.000281
	126.5	5239.9891	-0.000208	5239.9614	-0.000746	5239.9876	-0.000237
30	93.5	5240.0072	0.000137	5239.9826	-0.000370	5240.0028	0.000053
	110	5240.0055	0.000105	5239.9837	-0.000254	5240.0047	0.000090
	126.5	5240.0167	0.000319	5239.9934	-0.000118	5240.0126	0.000240
20	93.5	5239.9211	-0.001506	5240.0054	0.000040	5240.0035	0.000067
	110	5239.9481	-0.000990	5240.0065	0.000065	5240.0044	0.000084
	126.5	5239.9513	-0.000929	5240.0077	0.000145	5240.0013	0.000025
10	93.5	5239.9804	-0.000374	5240.0061	0.000116	5240.0013	0.000025
	110	5240.0079	0.000151	5240.0174	0.000332	5240.0144	0.000275
	126.5	5239.9891	-0.000208	5239.9945	-0.000105	5239.9958	-0.000080
0	93.5	5239.9895	-0.000200	5239.9657	-0.000655	5239.9808	-0.000233
	110	5239.9656	-0.000656	5239.9563	-0.000834	5239.9859	-0.000462
	126.5	5239.9767	-0.000445	5239.9782	-0.000416	5239.9614	-0.000746
-10	93.5	5240.0058	0.000111	5240.0292	0.000557	5239.9826	-0.000370
	110	5239.9787	-0.000406	5240.0182	0.000347	5239.9837	-0.000254
	126.5	5239.9724	-0.000527	5239.9879	-0.000231	5239.9934	-0.000118
-20	93.5	5239.9603	-0.000758	5240.0165	0.000315	5240.0054	0.000040
	110	5239.9816	-0.000351	5240.0274	0.000523	5240.0065	0.000065
	126.5	5239.9725	-0.000525	5240.0183	0.000349	5240.0077	0.000145
-30	93.5	5240.0014	0.000027	5240.0083	0.000158	5240.0108	0.000202
	110	5240.0102	0.000195	5240.0194	0.000370	5240.0019	0.000027
	126.5	5239.9583	-0.000796	5240.0247	0.000471	5240.0012	0.000015

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Modulation Standard: IEEE 802.11n draft 2.0, 20MHz (6.5MHz)							
Operating frequency: 5240 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5240.0126	0.000240	5239.9744	-0.000489	5240.0126	0.000240
	110	5240.0024	0.000046	5240.0052	0.000099	5240.0024	0.000046
	126.5	5240.0008	0.000015	5239.9775	-0.000429	5240.0008	0.000015
40	93.5	5239.9747	-0.000483	5239.9789	-0.000403	5239.9747	-0.000483
	110	5239.9846	-0.000294	5239.9679	-0.000613	5239.9846	-0.000294
	126.5	5239.9755	-0.000468	5239.9849	-0.000288	5239.9755	-0.000468
30	93.5	5240.0164	0.000313	5239.9726	-0.000523	5240.0164	0.000313
	110	5240.0233	0.000445	5240.0032	0.000061	5239.9893	-0.000204
	126.5	5239.9962	-0.000073	5240.0102	0.000195	5239.9985	-0.000029
20	93.5	5240.0052	0.000099	5239.9514	-0.000927	5239.9744	-0.000489
	110	5240.0061	0.000116	5240.0021	0.000040	5240.0052	0.000099
	126.5	5240.0127	0.000242	5240.0174	0.000332	5239.9775	-0.000429
10	93.5	5240.0084	0.000160	5239.9941	-0.000113	5239.9726	-0.000523
	110	5239.9878	-0.000233	5239.9768	-0.000443	5240.0219	0.000418
	126.5	5240.0022	0.000042	5239.9649	-0.000670	5239.9833	-0.000319
0	93.5	5240.0169	0.000323	5239.9808	-0.000366	5240.0052	0.000099
	110	5239.9898	-0.000195	5239.9877	-0.000235	5240.0061	0.000116
	126.5	5240.0024	0.000046	5239.9968	-0.000061	5240.0127	0.000242
-10	93.5	5239.9751	-0.000475	5240.0025	0.000048	5240.0084	0.000160
	110	5239.9862	-0.000263	5240.0044	0.000084	5239.9878	-0.000233
	126.5	5239.9788	-0.000405	5240.0073	0.000139	5240.0022	0.000042
-20	93.5	5239.9653	-0.000662	5240.0126	0.000240	5240.0169	0.000323
	110	5239.9564	-0.000832	5240.0024	0.000046	5239.9898	-0.000195
	126.5	5239.9744	-0.000489	5240.0125	0.000239	5240.0184	0.000351
-30	93.5	5240.0295	0.000563	5240.0034	0.000065	5240.0085	0.000162
	110	5240.0181	0.000345	5240.0032	0.000061	5240.0193	0.000368
	126.5	5239.9877	-0.000235	5240.0007	0.000013	5240.0049	0.000094

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

Modulation Standard: IEEE 802.11n draft 2.0, 40MHz (6MHz)							
Operating frequency: 5230 MHz							
Temp (°C)	Power supply (V)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	93.5	5230.0108	0.000207	5229.9213	-0.001505	5229.9895	-0.000201
	110	5230.0019	0.000036	5229.9482	-0.000990	5229.9653	-0.000663
	126.5	5230.0001	0.000002	5229.9519	-0.000920	5229.9763	-0.000453
40	93.5	5229.9841	-0.000304	5229.9849	-0.000289	5230.0052	0.000099
	110	5229.9812	-0.000359	5230.0229	0.000438	5229.9781	-0.000419
	126.5	5229.9723	-0.000530	5229.9851	-0.000285	5229.9783	-0.000415
30	93.5	5230.0174	0.000333	5230.0007	0.000013	5229.9962	-0.000073
	110	5230.0278	0.000532	5230.0005	0.000010	5229.9871	-0.000247
	126.5	5229.9966	-0.000065	5230.0127	0.000243	5229.9719	-0.000537
20	93.5	5230.0272	0.000520	5230.0033	0.000063	5230.0018	0.000034
	110	5230.0054	0.000103	5229.9853	-0.000281	5230.0111	0.000212
	126.5	5230.0147	0.000281	5230.0082	0.000157	5229.9718	-0.000539
10	93.5	5230.0017	0.000033	5230.0071	0.000136	5230.0062	0.000119
	110	5230.0215	0.000411	5229.9667	-0.000637	5230.0155	0.000296
	126.5	5230.0141	0.000270	5230.0019	0.000036	5229.9943	-0.000109
0	93.5	5230.0012	0.000023	5229.9841	-0.000304	5229.9734	-0.000509
	110	5230.0159	0.000304	5229.9726	-0.000524	5229.9871	-0.000247
	126.5	5229.9953	-0.000090	5229.9698	-0.000577	5229.9796	-0.000390
-10	93.5	5229.9664	-0.000642	5229.9729	-0.000518	5230.0204	0.000390
	110	5229.9574	-0.000815	5230.0151	0.000289	5230.0149	0.000285
	126.5	5229.9786	-0.000409	5229.9898	-0.000195	5229.9888	-0.000214
-20	93.5	5230.0214	0.000409	5230.0047	0.000090	5230.0178	0.000340
	110	5230.0144	0.000275	5230.0031	0.000059	5230.0277	0.000530
	126.5	5229.9885	-0.000220	5230.0114	0.000218	5230.0168	0.000321
-30	93.5	5230.0176	0.000337	5230.0022	0.000042	5230.0024	0.000046
	110	5230.0237	0.000453	5230.0021	0.000040	5230.0175	0.000335
	126.5	5230.0128	0.000245	5230.0042	0.000080	5230.0294	0.000562

Limit :

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

10. Band Edges Measurement

10.1. Test Procedure

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

10.2. Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
EMI Receiver	85460A	HP	3807A00454	2007/06/05	2008/06/04
Spectrum Analyzer	FSP40	R&S	10047	2007/01/23	2008/01/22
Horn Antenna	3115	EMCO	31589	2007/03/05	2008/03/04
Horn Antenna	3116	EMCO	31970	2007/03/06	2008/03/05
Bilog Antenna	CBL6112B	Schaffner	2840	2007/04/26	2008/04/25
Amplifier	8449B	Agilent	3008A01954	2007/01/12	2008/01/11
Amplifier	8447D	Agilent	2944A10531	2007/09/26	2008/09/25
Amplifier	PA-840	Com-Power	711885	2007/08/28	2008/08/27

10.3. Test Result and Data

- (1) Modulation Standard: IEEE 802.11a (6Mbps)

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

Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
36	5180	5149.80	-38.67

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

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

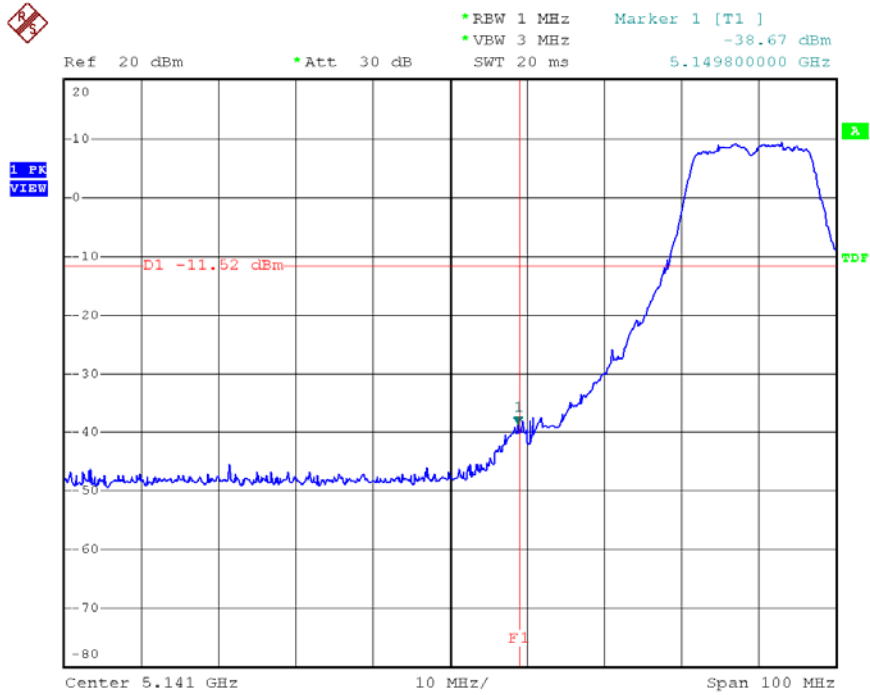
Channel	Antenna	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
36	TX0	5180	5146.60	-43.42
36	TX1	5180	5148.00	-43.81

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

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

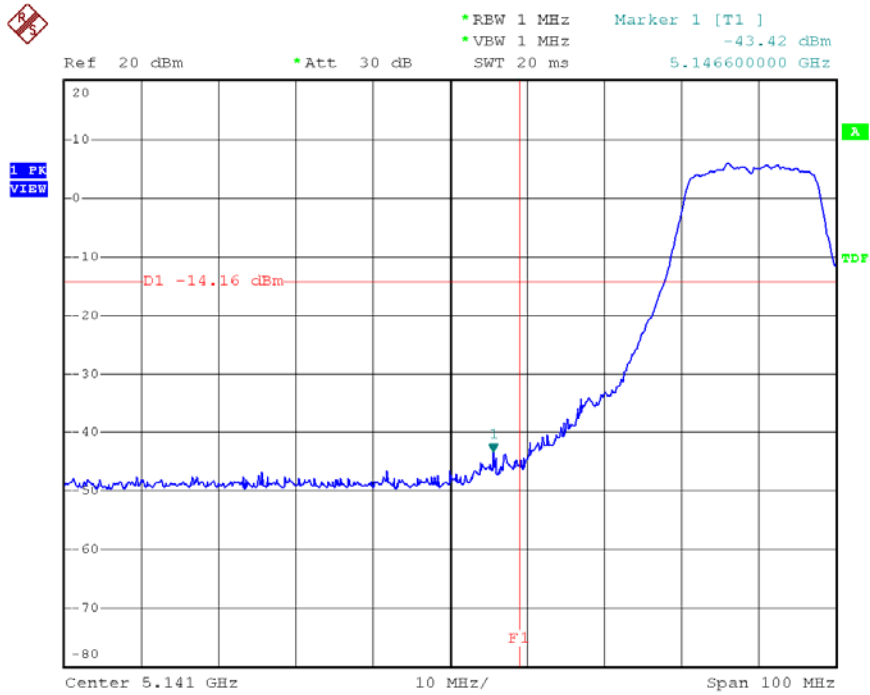
Channel	Antenna	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
38	TX0	5190	5149.80	-42.67
38	TX1	5190	5149.80	-44.07

Modulation Standard: 802.11a (6Mbps)
 Channel: 36



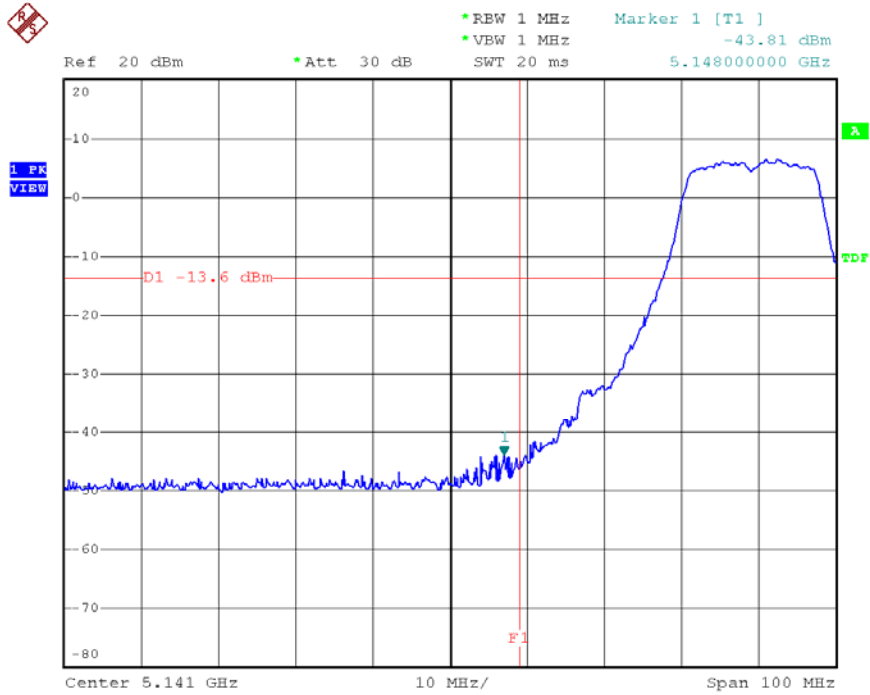
Date: 21.DEC.2007 01:08:33

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX0
 Channel: 36



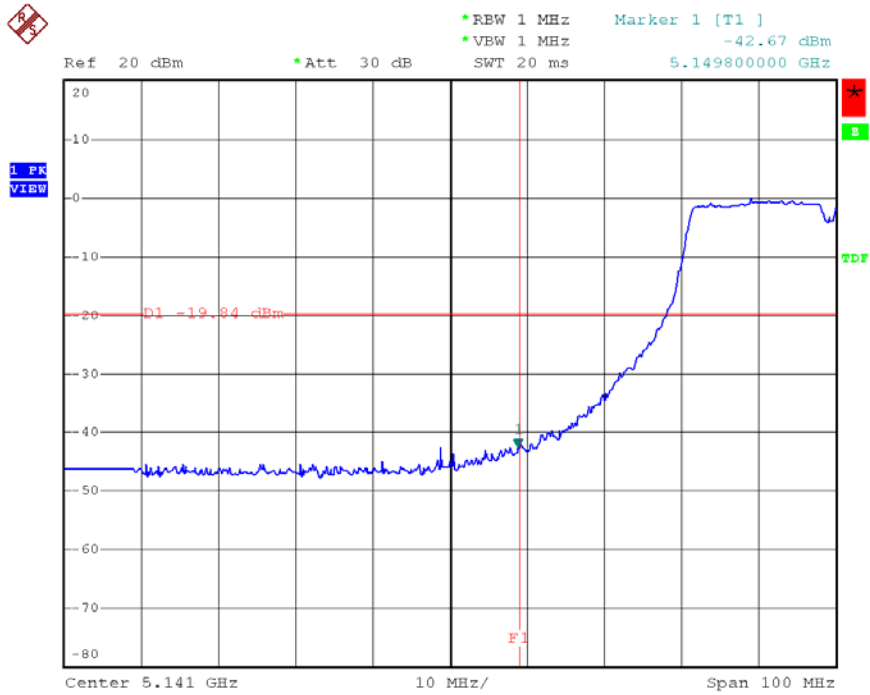
Date: 21.DEC.2007 02:14:34

Modulation Standard: 802.11n draft 2.0, 20MHz (6.5Mbps) – TX1
 Channel: 36



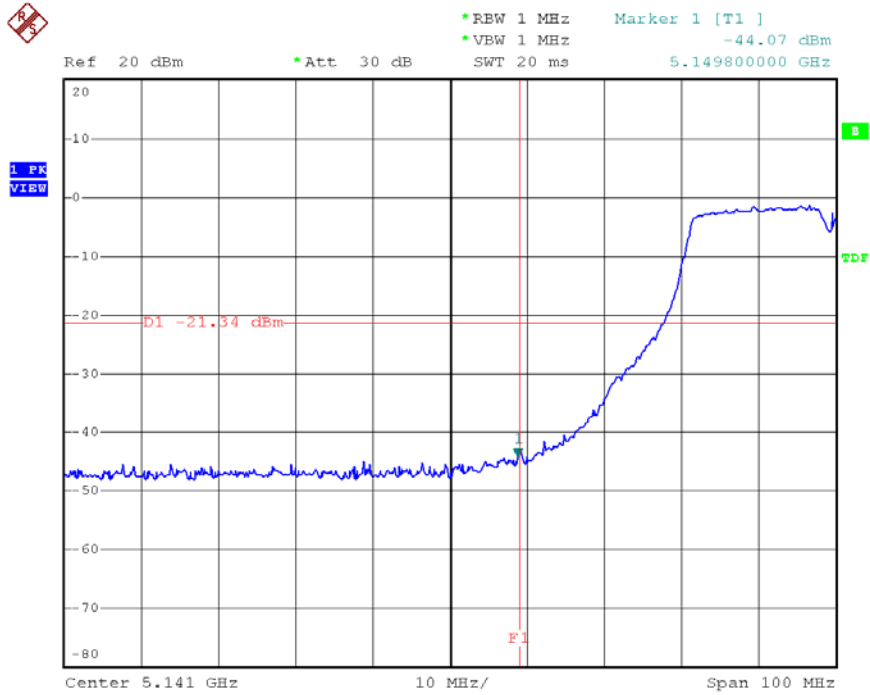
Date: 21.DEC.2007 02:15:35

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 36



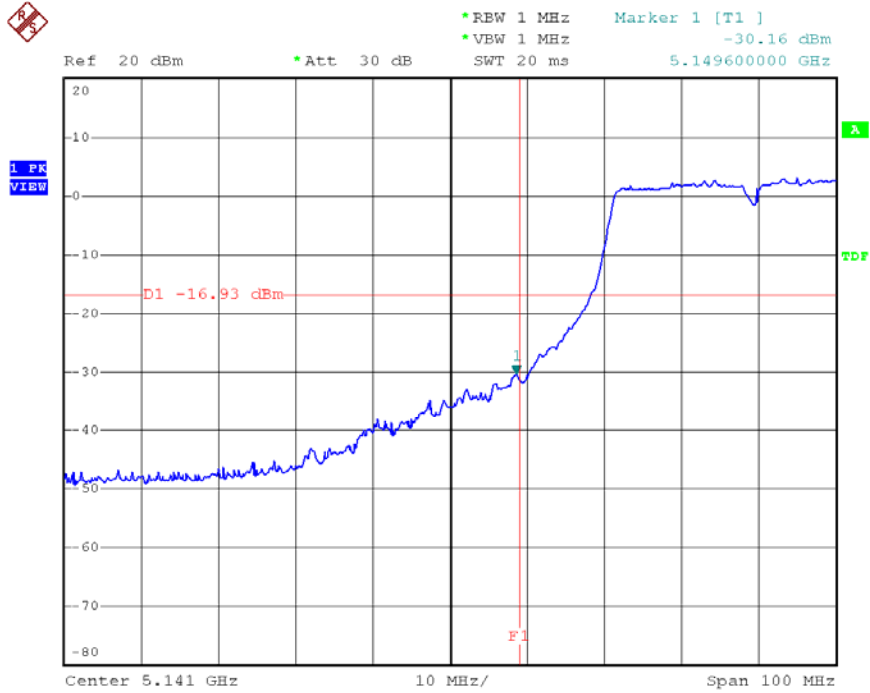
Date: 2.JAN.2008 19:13:55

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX0
 Channel: 36



Date: 2.JAN.2008 19:14:42

Modulation Standard: 802.11n draft 2.0, 40MHz (13.5Mbps) – TX1
 Channel: 36



Date: 21.DEC.2007 03:24:33

10.4. Restrict Band Emission Measurement Data

Modulation Standard: 802.11a (6Mbps)

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

Channel 38, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)		Corrected Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
		Peak	Ave		Peak	Ave	Peak	Ave			
5149.90	H	58.33	45.34	5.46	63.79	50.80	74	54	-3.20	210	1.0
5149.90	V	57.77	45.27	5.46	63.23	50.73	74	54	-3.27	210	1.0

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

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

Channel 38, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)		Corrected Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
		Peak	Ave		Peak	Ave	Peak	Ave			
5149.90	H	57.88	44.97	5.46	63.34	50.43	74	54	-3.57	210	1.0
5148.70	V	57.68	45.54	5.46	63.14	51.00	74	54	-3.00	210	1.0

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

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

Channel 36, Fundamental Frequency: 5180 MHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)		Corrected Factor (dB)	Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
		Peak	Ave		Peak	Ave	Peak	Ave			
5149.90	H	58.38	45.02	5.46	63.84	50.48	74	54	-3.52	210	1.0
5149.90	V	57.67	44.76	5.46	63.11	50.22	74	54	-3.78	210	1.0

Notes:

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

11. 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

11.1. 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.

12. RF Exposure

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:
RF Exposure Compliance

12.1. Limit for Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

F=frequency in MHz

*Plane-wave equivalent power density

12.2. MPE Calculations

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (mW/cm}^2\text{)} = \frac{E^2}{3770}$$

E = Electric field (V/m)

P = Peak output power (W)

G = Antenna numeric gain (numeric)

d = Separation distance (m)

Because the EUT is belong to General Population/ Uncontrolled Exposure. So the Limit of Power Density is 10 W/m². We can change the formula to:

$$d = \sqrt{\frac{30 \times P \times G}{3770}}$$

12.3. FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation. Proposed RF exposure safety information to include in User's Manual.