FCC TEST REPORT

According to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	:	Belkin International Inc.
Address	:	501 West Walnut Street, Compton CA 90220, USA
Equipment	:	N Wireless Router
Model No.	:	F5D8236-4 v3
FCC ID	:	K7SF5D8236V3
Trade Name	:	Belkin

Laboratory Accreditation

TAF Testing Laboratory 1332

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

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CERTIFICATE OF COMPLIANCE

According to

FCC Rules and Regulations

Part 15 Subpart C

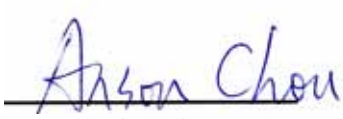
Applicant	:	Belkin International Inc.
Address	:	501 West Walnut Street, Compton CA 90220, USA
Equipment	:	N Wireless Router
Model No.	:	F5D8236-4 v3
FCC ID	:	K7SF5D8236V3

I **HEREBY** CERTIFY THAT :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4** The equipment was ***passed*** the test performed according to **FCC Rules and Regulations Part 15 Subpart C (2005).**

The test was carried out on Feb. 19, 2009 at Cerpass Technology Corp.

Signature



Anson Chou /
EMC/RF B.U. Vice General Manager

1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

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

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Specifications

CPU	Ralink RT3052-384MHz
FLASH	2M bytes (expandable to 32M bytes)
SDRAM	8M bytes (expandable to64M bytes)support 16/32 bit
LAN Port	RJ45 Port x 4
WAN port	RJ45 Port x 1
Power adaptor	Supplied by external converter and Spec is 12V /1A
LEDs	See LED table
ICE Support	Can Connect to JTAG interface for S/W Development
USB Port	Reserve USB port

Wireless

Spreading	802.11b: DSSS, CCK(QPSK, BPSK) 802.11g / n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency Range	2.4 ~ 2.4835GHz
Number of Channels	802.11b/g/n HT20: -USA, Canada and Taiwan: CH 1 ~ 11 (11channels) -Most European Countries: CH 1 ~ 13 (13channels) -France: CH 1 ~ 7 (7channels) 802.11n HT40: -USA, Canada and Taiwan: CH 3 ~ 9 (7channels) -Most European Countries: CH 1 ~ 13 (13channels) -France: CH 3 ~ 5 (3channels)
Data Rate	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n HT20: 130/15, 117/14, 104/13, 78/12, 52/11, 39/10, 26/9, 13/8, 65/7, 58.5/6, 52/5, 39/4, 26/3, 19.5/2, 13/1, 6.5/0Mbps 802.11 n HT40: 270/15, 243/14, 216/13, 162/12, 108/11, 81/10, 54/9, 27/8, 135/7, 121.5/6, 108/5, 81/4, 54/3, 40.5/2, 27/1, 13.5/0Mbps
Transmit Power	802.11b: 17~18 dBm (Average); 802.11g: 15~17 dBm (Average); 802.11n HT20: 13~17dBm(Tx1+Tx2 Average); 802.11n HT40: 13~17dBm (Tx1+Tx2 Average)
Security	IEEE 802.1x and WPA (available in the future) WEP 64 bit, 128 bit.
Antenna Type / Gain	Dipole antenna / Ant1: 1.8dBi; Ant2: 1.8dBi;

2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20

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

802.11n HT40

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

2.3 Test Mode and Test Software

a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
b. The complete test system included remote workstation, PC, Monitor, Keyboard, Mouse, Modem, Printer and EUT for RF test. The remote workstation includes Notebook.
c. An executive program, ping.exe under WIN XP, which transmits and receives data to the remote workstation through RJ45 (100M) and Wireless (270M).
d. The following test modes were performed for test:
   - 802.11b/g/n HT20: CH01: 2412MHz, CH06: 2437MHz, CH11: 2462MHz
   - 802.11n HT40: CH03: 2422MHz, CH06: 2437MHz, CH09: 2452MHz
e. Test Adapter: MT12-Y120100-A1

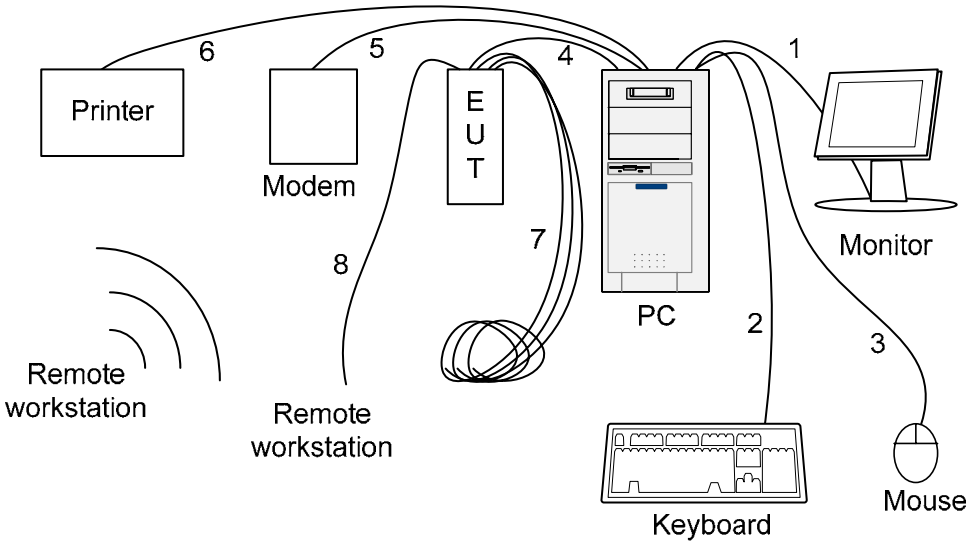
2.4 Description of Test System

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, PS2 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
Remote Workstation			
Notebook	DELL	PP10L	Power Cable, Adapter Unshielding 1.8 m
Notebook	TOSHIBA	PSA50T-05 M00C	Power Cable, Adapter Unshielding 1.8 m

Use Cable:

Cable	Quantity	Description
RJ45	3	Unshielding, 3.0m
RJ45	1	Unshielding, 5.0m
RJ45	1	Unshielding, 1.5m

2.5 Connection Diagram of Test System



1. The VGA cable is connected from PC to the Monitor.
2. The PS2 cable is connected from PC to the PS2 Keyboard.
3. The USB cable is connected from PC to the PS2 Mouse.
4. The RJ45 cable is connected from PC to the EUT.
5. The RS232 cable is connected from PC to the Modem.
6. The Print cable is connected from PC to the Printer.
7. These RJ45 cables (*3) are floating.
8. The RJ45 cable is connected from EUT to the Remote workstation.

＊ The EUT keeps to transmit and receive data to remote workstation by Wireless.

2.6 General Information of Test

Test Site :	Cerpass Technology Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei City 223, Taiwan, R.O.C. Registration Number: 632249.
FCC Registration Number :	632249
IC Registration Number :	4934B-1
VCCI Registration Number :	T-338 for Telecommunication Test C-2188 for Conducted emission test R-1902 for Radiated emission test
Test Voltage:	AC 120V
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30MHz Radiation: from 30MHz to 25,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.7 Measurement Uncertainty

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

2.8 History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

Attachment No.	Issue Date	Description

3. Antenna Requirements

3.1 Standard Applicable

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

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

3.2 Antenna Construction and Directional Gain

Ant1: Dipole antenna, 1.8 dBi
Ant2: Dipole antenna, 1.8 dBi

4. Test of Conducted Emission

4.1 Test Limit

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

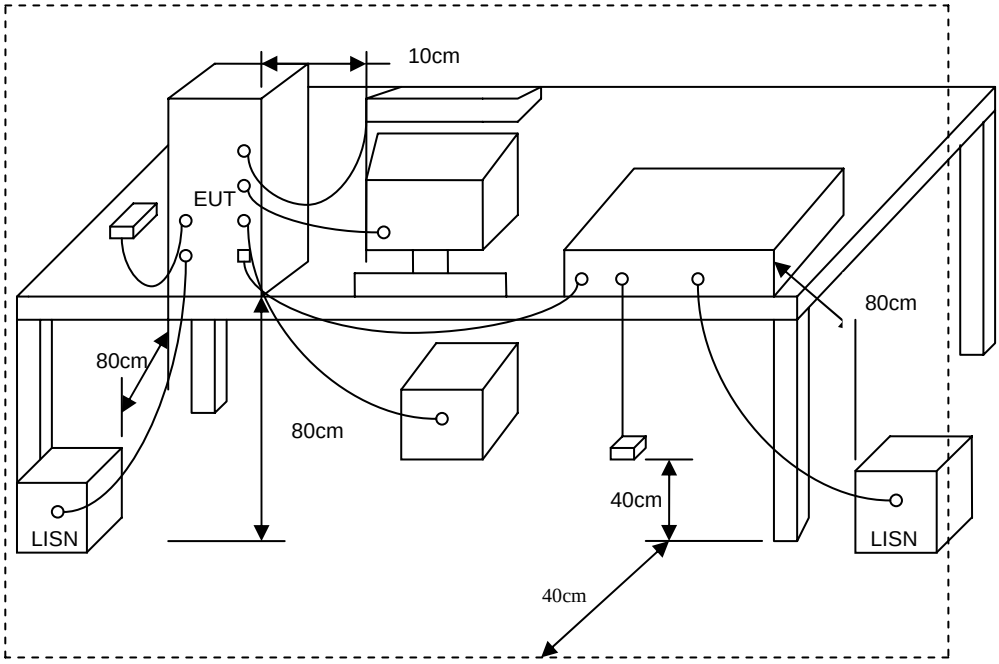
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

4.2 Test Procedures

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

4.3 Typical Test Setup

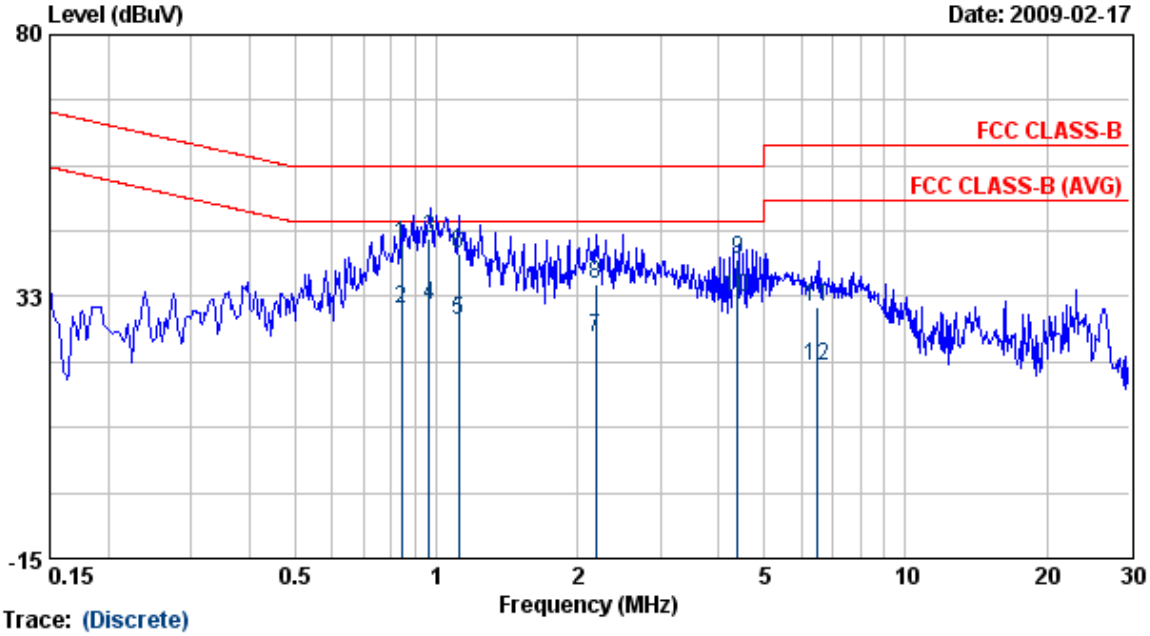


4.4 Measurement Equipment

Instrument/ Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date.
EMI Receiver	R&S	ESCI	100443	2008/09/27	2009/09/26
LISN	MESS TEC	NNB-2/16Z	02/10191	2008/05/14	2009/05/13
LISN	ROLF HEINE	NNB-2/16Z	03/10058	2008/04/19	2009/04/18

4.5 Test Result and Data

Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode 1	:	802.11g, CH1	Temperature	:	21 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %

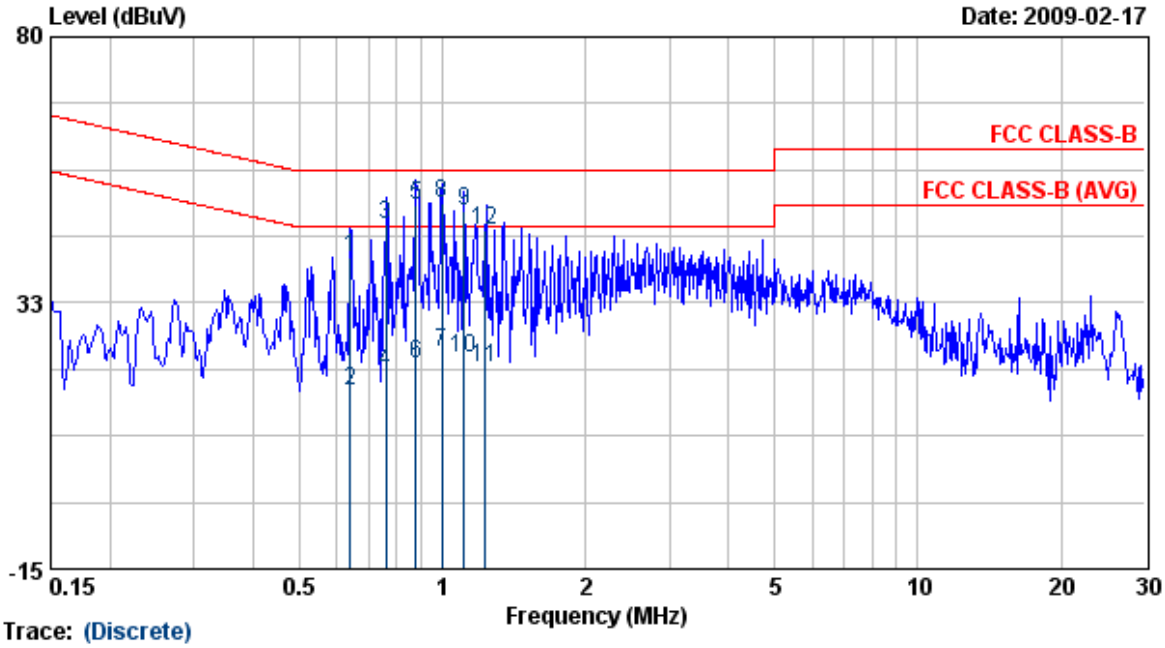


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.84	41.78	0.15	41.93	56.00	-14.07	QP
2	0.84	30.20	0.15	30.35	46.00	-15.65	AVERAGE
3	0.97	43.04	0.16	43.20	56.00	-12.80	QP
4	0.97	30.65	0.16	30.81	46.00	-15.19	AVERAGE
5	1.12	28.09	0.17	28.26	46.00	-17.74	AVERAGE
6	1.12	40.03	0.17	40.20	56.00	-15.80	QP
7	2.18	24.87	0.24	25.11	46.00	-20.89	AVERAGE
8	2.18	34.43	0.24	34.68	56.00	-21.32	QP
9	4.39	38.92	0.32	39.24	56.00	-16.76	QP
10	4.39	31.97	0.32	32.29	46.00	-13.71	AVERAGE
11	6.50	30.11	0.34	30.46	60.00	-29.54	QP
12	6.50	19.40	0.34	19.75	50.00	-30.25	AVERAGE

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

Power	:	AC 120V	Pol/Phase	:	NEUTRAL
Test Mode 1	:	802.11g, CH1	Temperature	:	21 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %

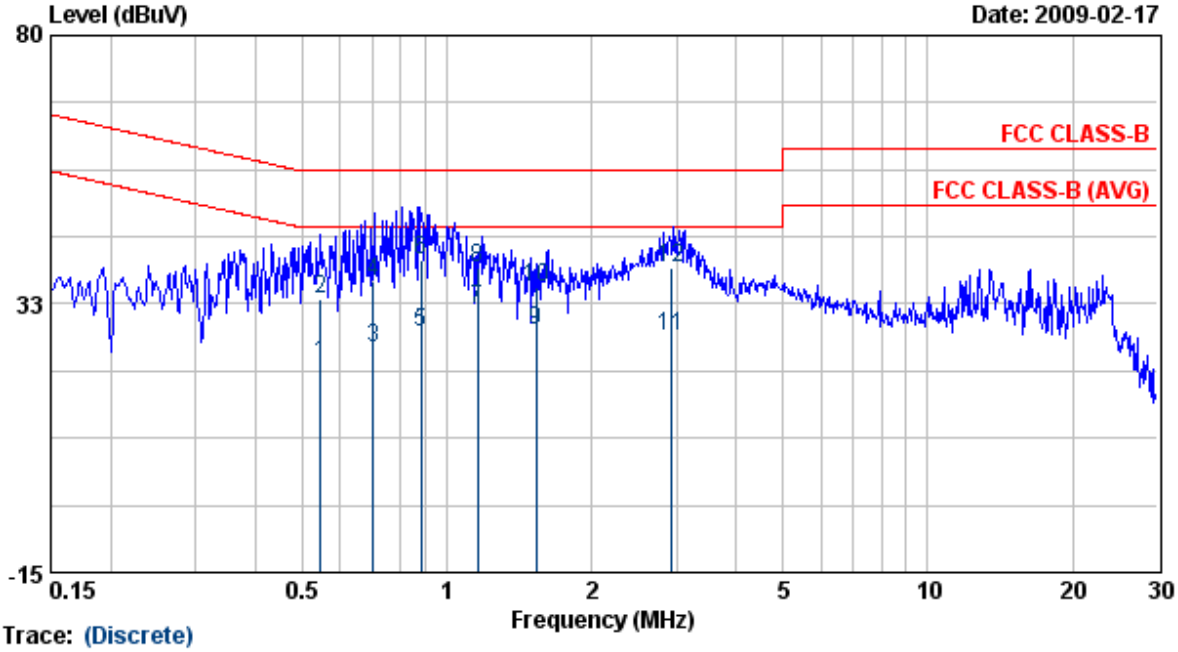


Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.64	40.62	0.17	40.79	56.00	-15.21	QP
2	0.64	16.45	0.17	16.62	46.00	-29.38	AVERAGE
3	0.76	46.35	0.17	46.52	56.00	-9.48	QP
4	0.76	20.16	0.17	20.33	46.00	-25.67	AVERAGE
5	0.88	49.63	0.18	49.80	56.00	-6.20	QP
6	0.88	21.56	0.18	21.74	46.00	-24.26	AVERAGE
7	1.00	23.58	0.18	23.76	46.00	-22.24	AVERAGE
8	1.00	50.03	0.18	50.21	56.00	-5.79	QP
9	1.11	48.59	0.19	48.78	56.00	-7.22	QP
10	1.11	22.58	0.19	22.77	46.00	-23.23	AVERAGE
11	1.23	20.78	0.19	20.98	46.00	-25.02	AVERAGE
12	1.23	45.15	0.19	45.34	56.00	-10.66	QP

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

Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	21 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



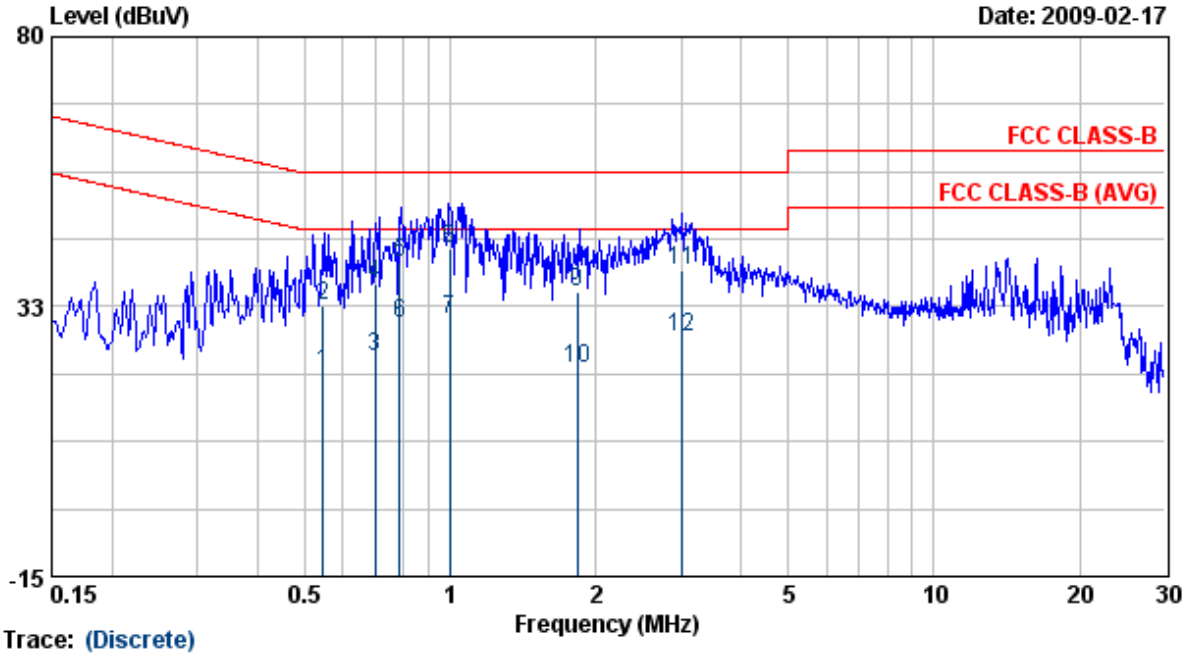
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.55	21.76	0.13	21.90	46.00	-24.10	AVERAGE
2	0.55	33.31	0.13	33.45	56.00	-22.55	QP
3	0.70	24.51	0.14	24.65	46.00	-21.35	AVERAGE
4	0.70	36.45	0.14	36.60	56.00	-19.40	QP
5	0.88	27.35	0.15	27.51	46.00	-18.49	AVERAGE
6	0.88	40.02	0.15	40.17	56.00	-15.83	QP
7	1.16	31.31	0.17	31.48	46.00	-14.52	AVERAGE
8	1.16	38.79	0.17	38.96	56.00	-17.04	QP
9	1.53	27.59	0.20	27.79	46.00	-18.21	AVERAGE
10	1.53	35.14	0.20	35.34	56.00	-20.66	QP
11	2.94	26.41	0.28	26.69	46.00	-19.31	AVERAGE
12	2.94	38.69	0.28	38.97	56.00	-17.03	QP

Remarks:

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

Power	:	AC 120V	Pol/Phase	:	NEUTRAL
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	21 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



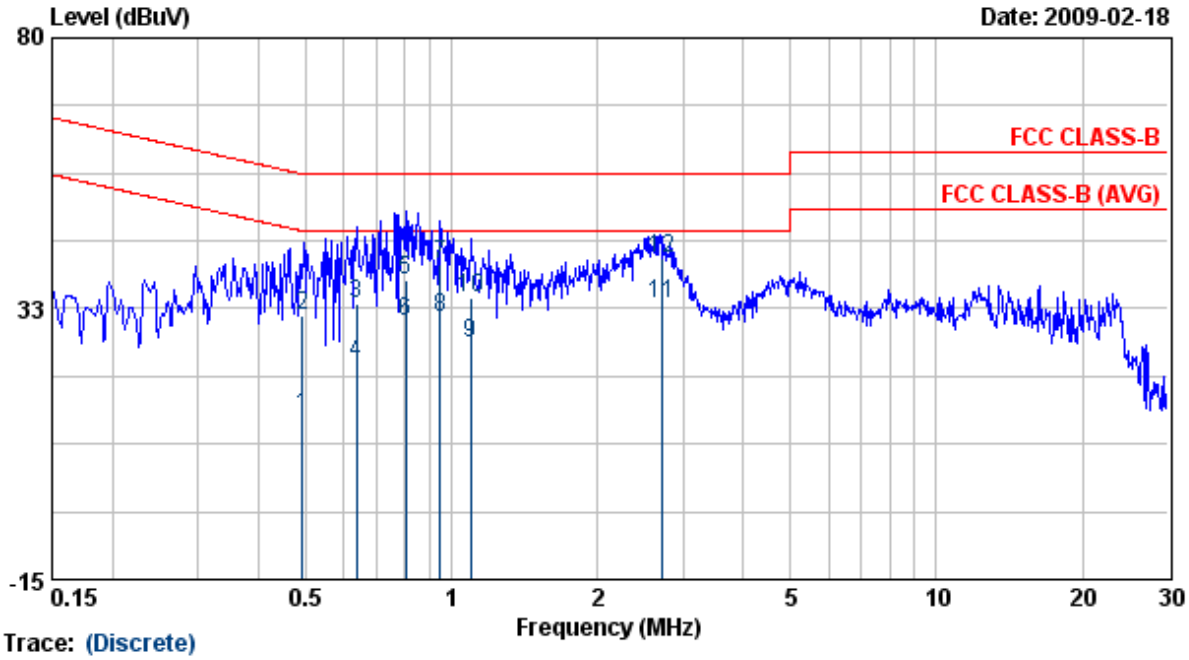
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.55	20.63	0.16	20.79	46.00	-25.21	AVERAGE
2	0.55	32.67	0.16	32.83	56.00	-23.17	QP
3	0.70	23.46	0.17	23.63	46.00	-22.37	AVERAGE
4	0.70	36.32	0.17	36.49	56.00	-19.51	QP
5	0.79	40.24	0.17	40.41	56.00	-15.59	QP
6	0.79	29.30	0.17	29.47	46.00	-16.53	AVERAGE
7	1.00	30.10	0.18	30.28	46.00	-15.72	AVERAGE
8	1.00	42.66	0.18	42.84	56.00	-13.16	QP
9	1.83	34.85	0.22	35.07	56.00	-20.93	QP
10	1.83	21.29	0.22	21.51	46.00	-24.49	AVERAGE
11	3.01	38.66	0.27	38.93	56.00	-17.07	QP
12	3.01	26.97	0.27	27.24	46.00	-18.76	AVERAGE

Remarks:

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

Power	:	AC 120V	Pol/Phase	:	LINE
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	21 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



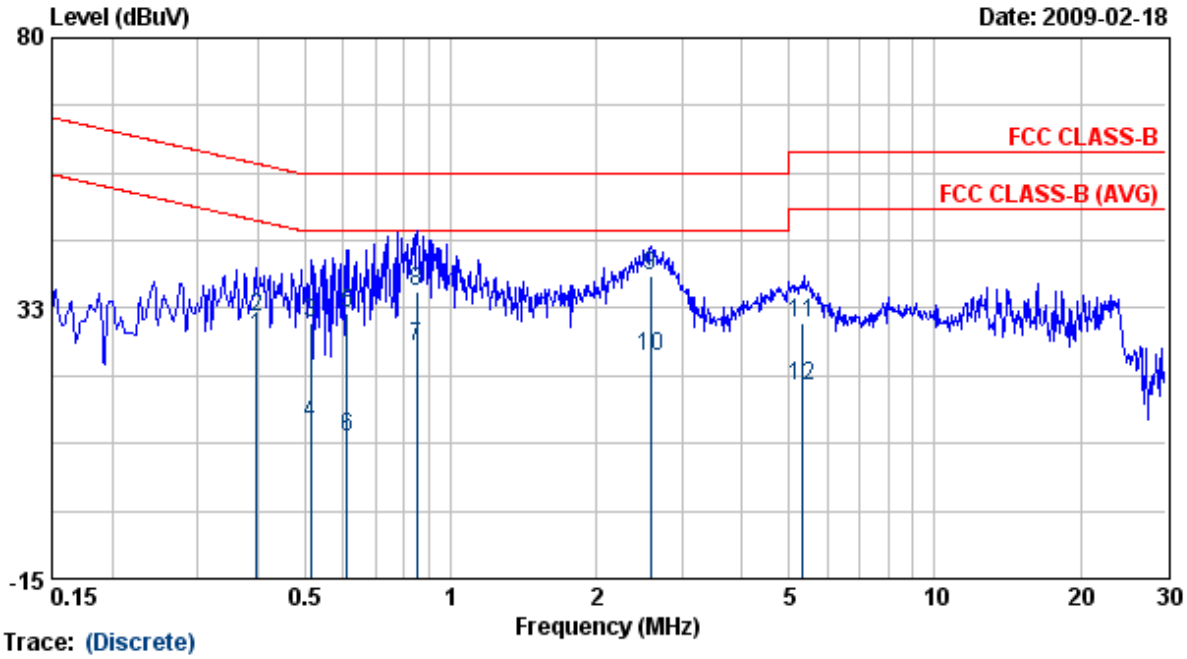
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.49	13.43	0.13	13.56	46.12	-32.56	AVERAGE
2	0.49	31.16	0.13	31.29	56.12	-24.83	QP
3	0.64	33.14	0.14	33.28	56.00	-22.72	QP
4	0.64	22.88	0.14	23.02	46.00	-22.98	AVERAGE
5	0.80	37.26	0.15	37.41	56.00	-18.59	QP
6	0.80	30.05	0.15	30.20	46.00	-15.80	AVERAGE
7	0.95	40.28	0.16	40.44	56.00	-15.56	QP
8	0.95	30.90	0.16	31.05	46.00	-14.95	AVERAGE
9	1.09	26.20	0.17	26.37	46.00	-19.63	AVERAGE
10	1.09	34.37	0.17	34.53	56.00	-21.47	QP
11	2.71	32.97	0.27	33.24	46.00	-12.76	AVERAGE
12	2.71	41.20	0.27	41.47	56.00	-14.53	QP

Remarks:

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

Power	:	AC 120V	Pol/Phase	:	NEUTRAL
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	21 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.40	27.42	0.15	27.57	47.91	-20.35	AVERAGE
2	0.40	30.82	0.15	30.97	57.91	-26.95	QP
3	0.51	29.74	0.16	29.89	56.00	-26.11	QP
4	0.51	11.99	0.16	12.15	46.00	-33.85	AVERAGE
5	0.61	31.32	0.16	31.48	56.00	-24.52	QP
6	0.61	9.84	0.16	10.01	46.00	-35.99	AVERAGE
7	0.85	25.64	0.17	25.81	46.00	-20.19	AVERAGE
8	0.85	35.16	0.17	35.34	56.00	-20.66	QP
9	2.59	37.87	0.26	38.12	56.00	-17.88	QP
10	2.59	23.91	0.26	24.16	46.00	-21.84	AVERAGE
11	5.32	29.69	0.33	30.02	60.00	-29.98	QP
12	5.32	18.44	0.33	18.77	50.00	-31.23	AVERAGE

Remarks:

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

Test engineer: Ben

4.6 Test Photographs

Front View

Rear View

5. Test of Radiated Emission

5.1 Test Limit

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

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

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

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

5.2 Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.

b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

c. The table was rotated 360 degrees to determine the position of the highest radiation.

d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.

e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.

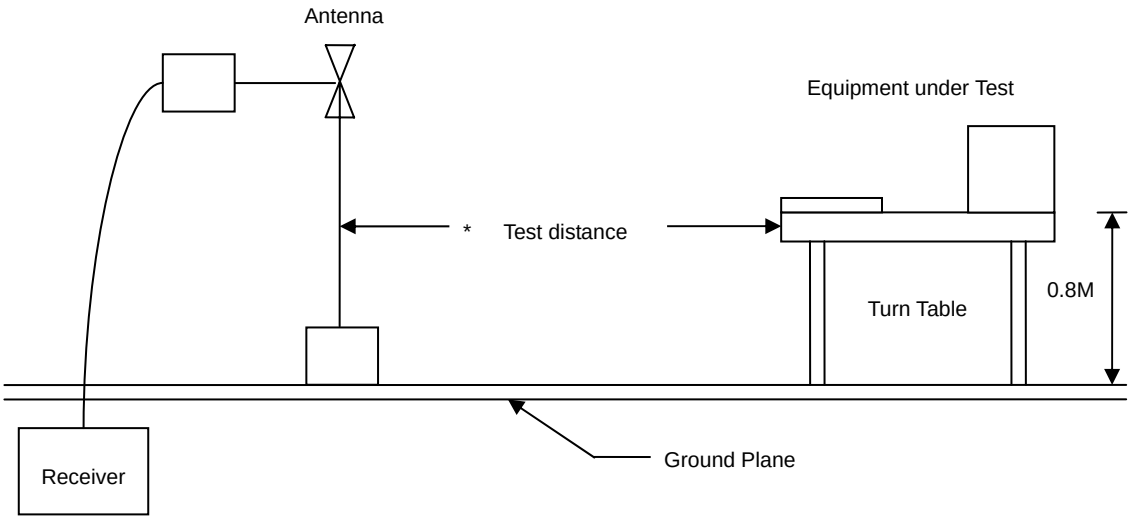
f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

i. “Cone of radiation” has been considered to be 3dB bandwidth of the measurement antenna.

5.3 Typical Test Setup

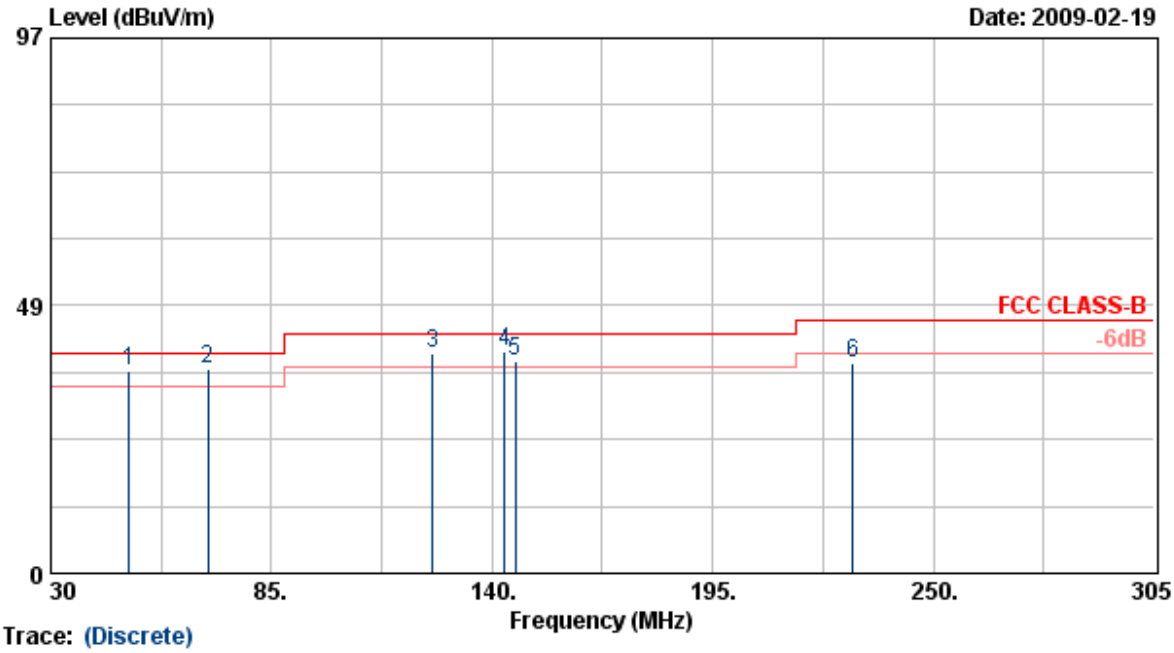


5.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Bilog Antenna	CBL6112B	Schaffner	2840	2008/05/15	2009/05/14
Signal Generator	8648B	HP	3629U00612	2008/10/08	2009/10/07
Amplifier	8447D	Agilent	2944A10593	2008/05/26	2009/05/25
EMI Receiver	8546A	HP	3807A00454	2008/08/07	2009/08/06
Spectrum	FSP40	R&S	100047	2008/02/22	2009/02/21
Horn Antenna	3115	EMCO	31589	2008/04/01	2009/03/30
Amplifier	8449B	Agilent	3008A01954	2009/01/23	2010/01/22

5.5 Test Result and Data

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11g, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



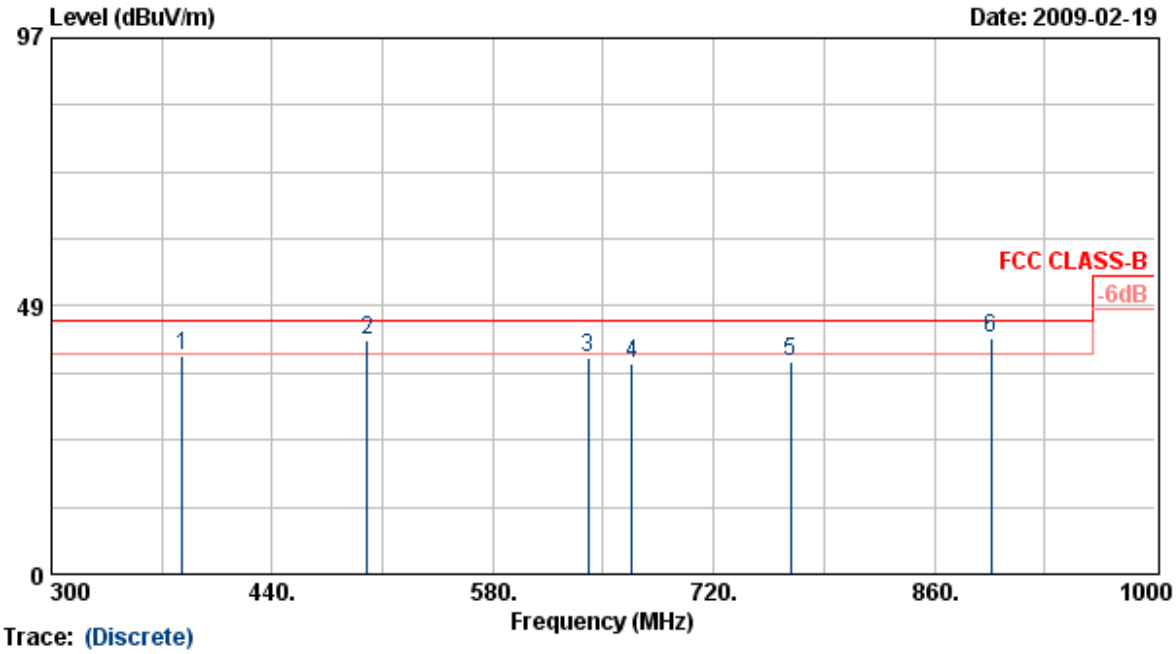
Trace: (Discrete)

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	49.53	54.87	-18.15	36.71	40.00	-3.29	QP	150	0
2	69.05	55.32	-18.39	36.94	40.00	-3.06	QP	150	0
3	125.15	54.27	-14.28	39.98	43.50	-3.52	QP	150	0
4	143.03	53.24	-12.91	40.33	43.50	-3.17	QP	150	0
5	145.78	51.51	-13.10	38.42	43.50	-5.08	QP	150	0
6	229.93	50.91	-12.87	38.04	46.00	-7.96	Peak	150	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11g, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



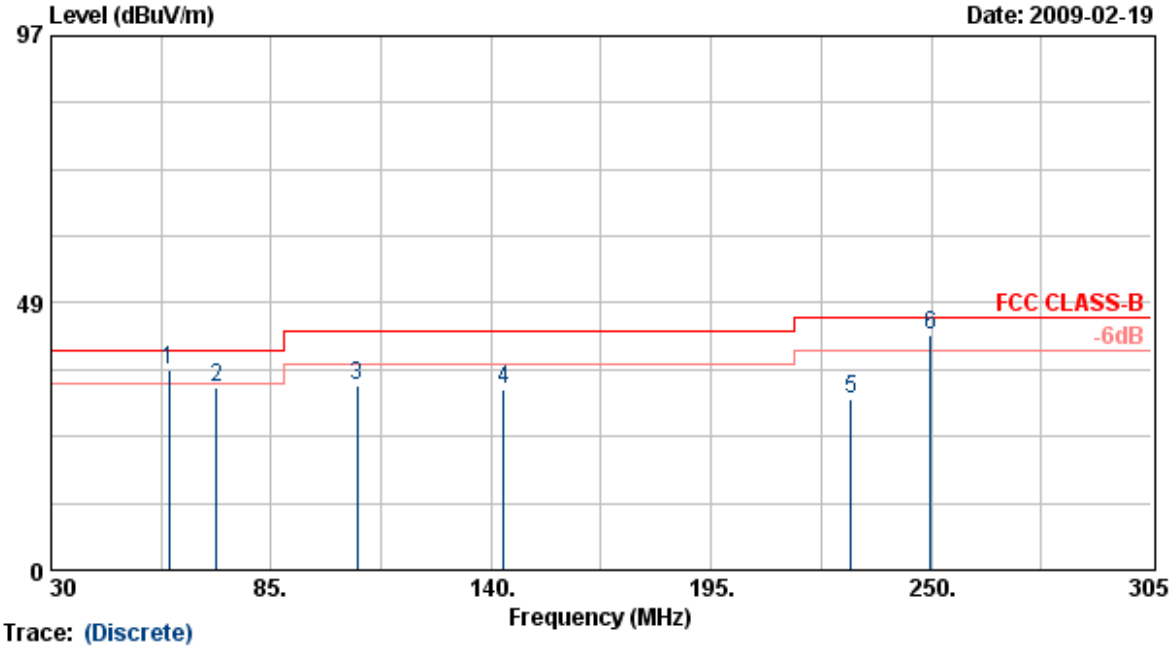
Trace: (Discrete)

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	383.30	49.50	-9.94	39.56	46.00	-6.44	Peak	102	0
2	500.20	50.23	-7.87	42.37	46.00	-3.63	QP	102	0
3	640.20	46.34	-7.03	39.31	46.00	-6.69	Peak	102	0
4	668.20	44.57	-6.33	38.24	46.00	-7.76	Peak	102	0
5	769.00	40.68	-2.12	38.56	46.00	-7.44	Peak	102	0
6	895.70	44.61	-1.80	42.81	46.00	-3.19	QP	102	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



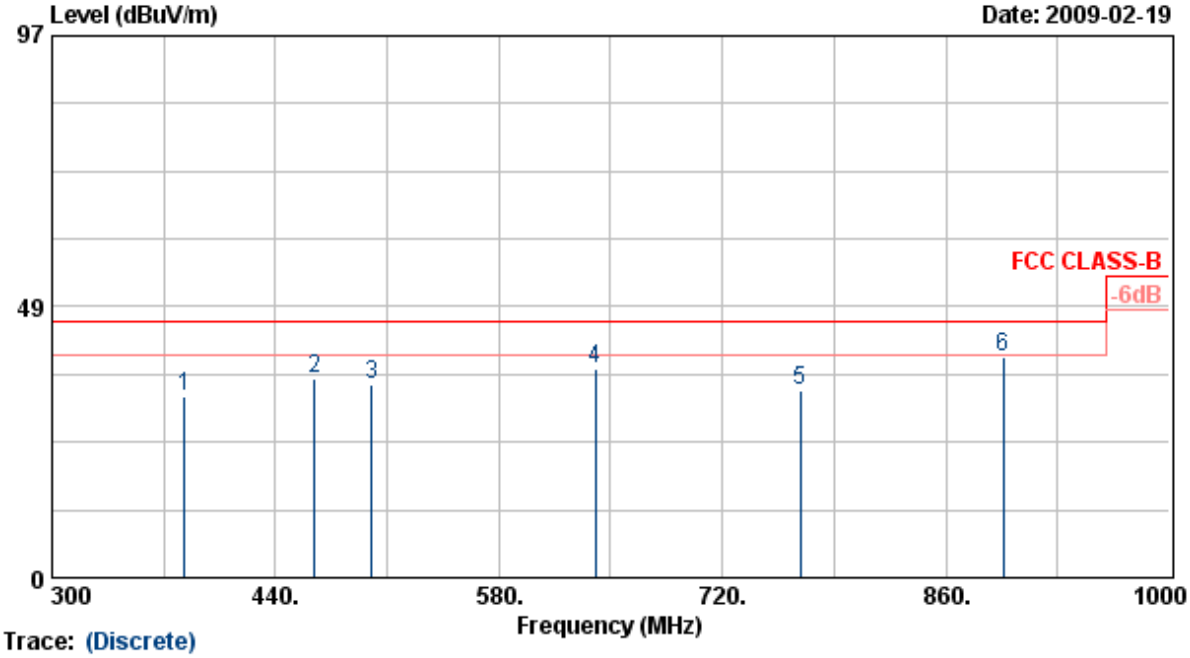
Trace: (Discrete)

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	59.43	59.04	-22.56	36.49	40.00	-3.51	QP	150	0
2	71.25	56.77	-23.65	33.12	40.00	-6.88	Peak	150	0
3	106.45	53.58	-20.00	33.58	43.50	-9.92	Peak	150	0
4	143.03	52.15	-19.50	32.65	43.50	-10.85	Peak	150	0
5	229.93	50.47	-19.57	30.90	46.00	-15.10	Peak	150	0
6	249.73	61.55	-18.72	42.83	46.00	-3.17	QP	150	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %

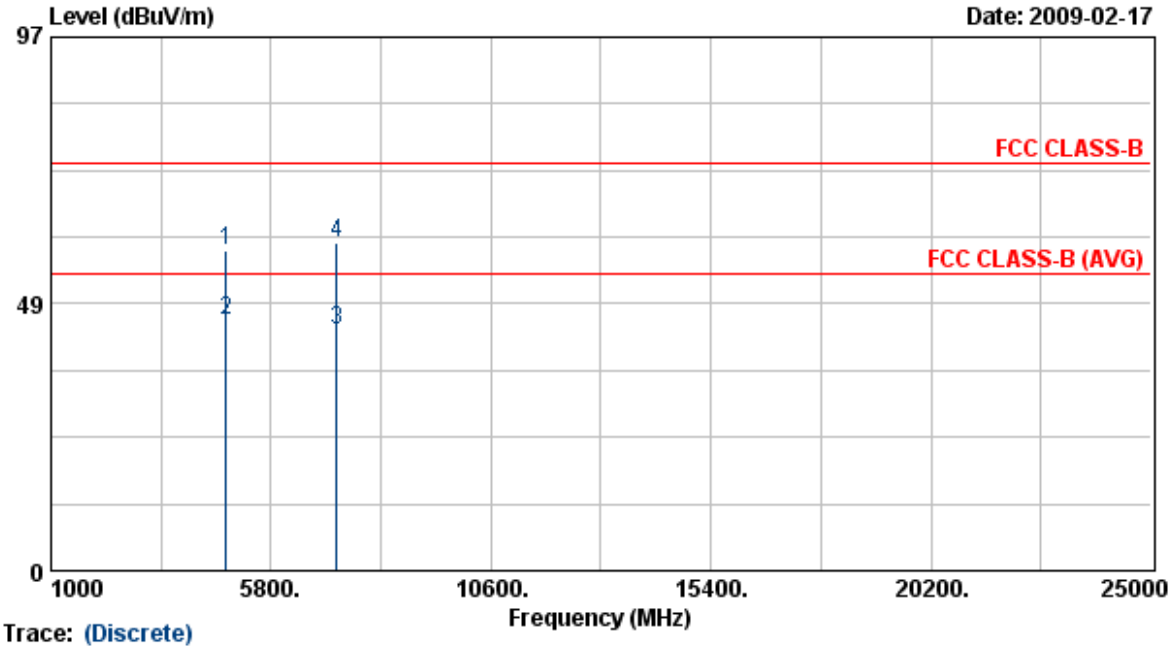


Trace: (Discrete)

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	383.30	45.46	-12.90	32.56	46.00	-13.44	Peak	102	0
2	464.50	45.41	-9.60	35.80	46.00	-10.20	Peak	102	0
3	500.20	41.78	-7.23	34.55	46.00	-11.45	Peak	102	0
4	640.20	41.69	-4.20	37.49	46.00	-8.51	Peak	102	0
5	769.00	36.47	-2.85	33.62	46.00	-12.38	Peak	102	0
6	895.70	39.01	0.34	39.35	46.00	-6.65	Peak	102	0

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11b, CH1	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



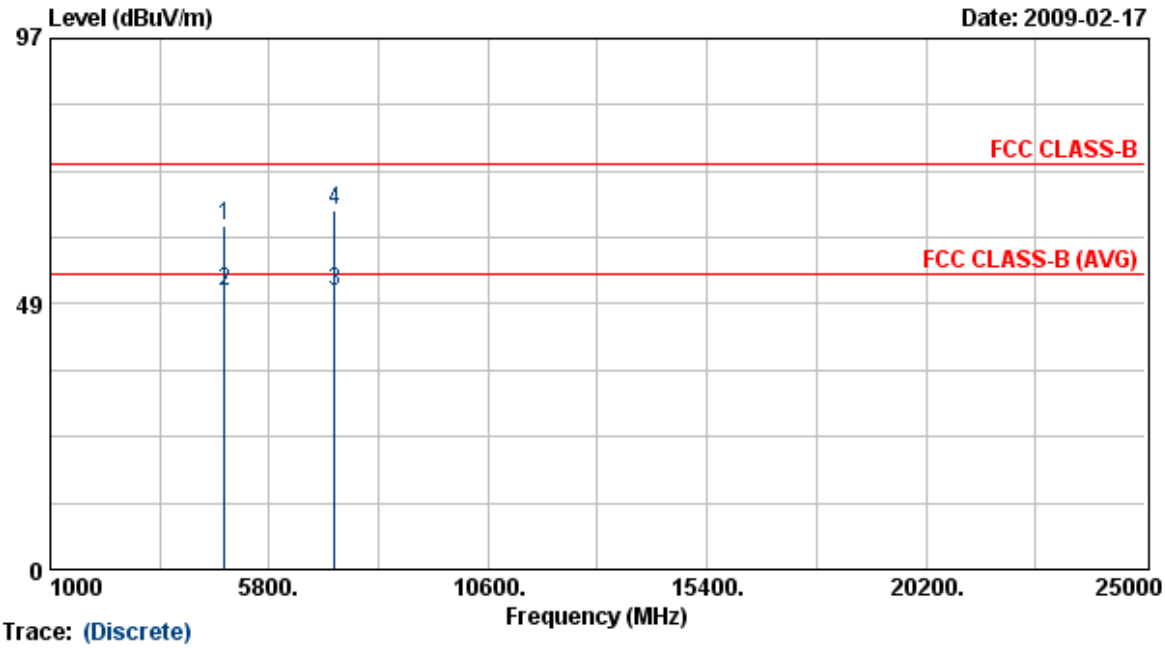
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	51.13	7.17	58.30	74.00	-15.70	Peak	146	180
2	4824.00	38.51	7.17	45.67	54.00	-8.33	Average	146	180
3	7233.18	32.64	11.02	43.67	54.00	-10.33	Average	146	180
4	7236.00	48.50	11.04	59.54	74.00	-14.46	Peak	146	180

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11b, CH1	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



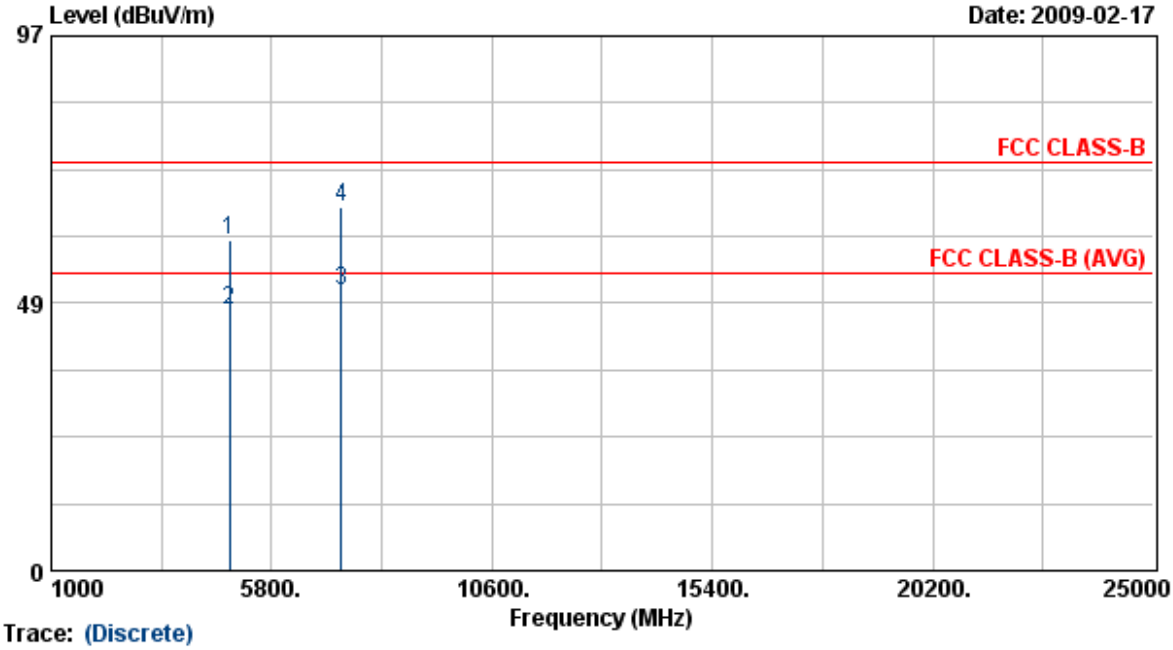
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	55.57	7.17	62.73	74.00	-11.27	Peak	150	60
2	4824.00	43.69	7.17	50.86	54.00	-3.14	Average	150	60
3	7236.00	39.63	11.04	50.67	54.00	-3.33	Average	150	60
4	7236.00	54.49	11.04	65.53	74.00	-8.47	Peak	150	60

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11b, CH6	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



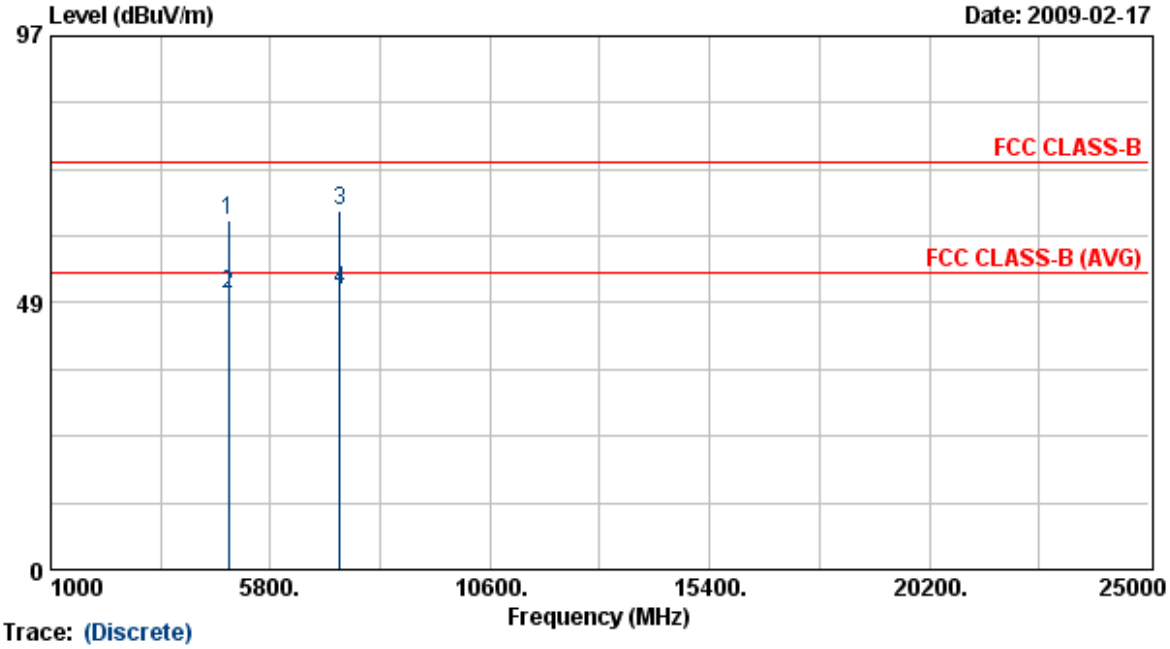
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	52.69	7.33	60.01	74.00	-13.99	Peak	100	132
2	4874.00	40.01	7.33	47.34	54.00	-6.66	Average	100	132
3	7311.00	39.23	11.40	50.63	54.00	-3.37	Average	100	132
4	7311.00	54.55	11.40	65.94	74.00	-8.06	Peak	100	132

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11b, CH6	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



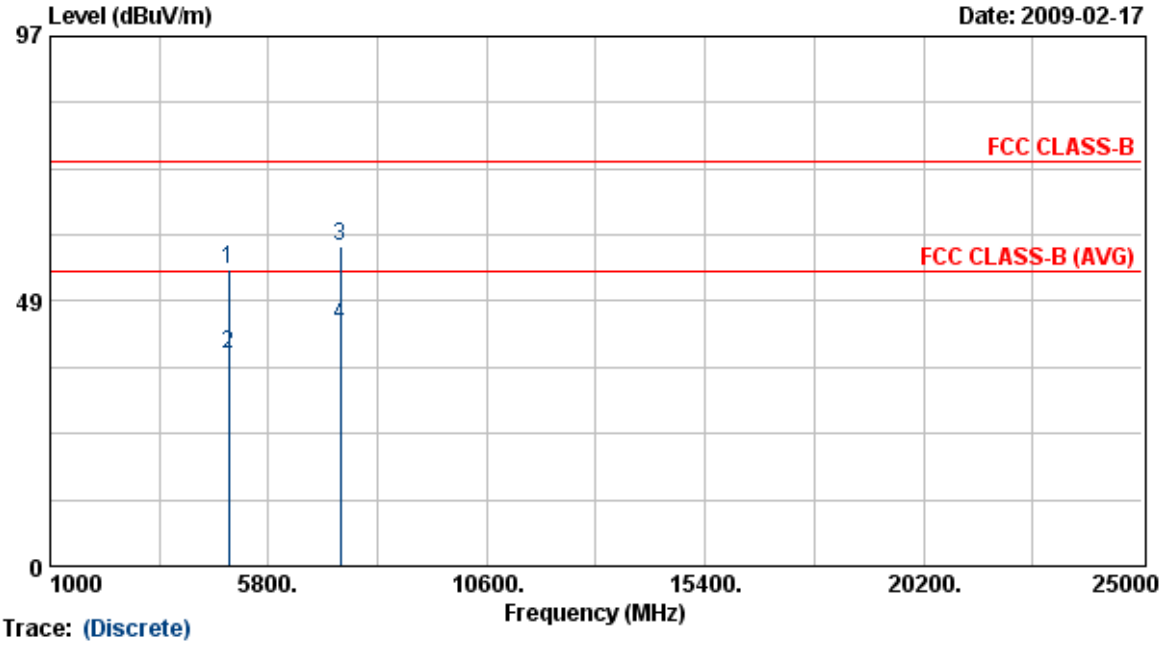
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	56.06	7.33	63.39	74.00	-10.61	Peak	150	64
2	4874.00	42.91	7.33	50.23	54.00	-3.77	Average	150	64
3	7311.00	53.70	11.40	65.09	74.00	-8.91	Peak	150	64
4	7311.00	39.56	11.40	50.95	54.00	-3.05	Average	150	64

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11b, CH11	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



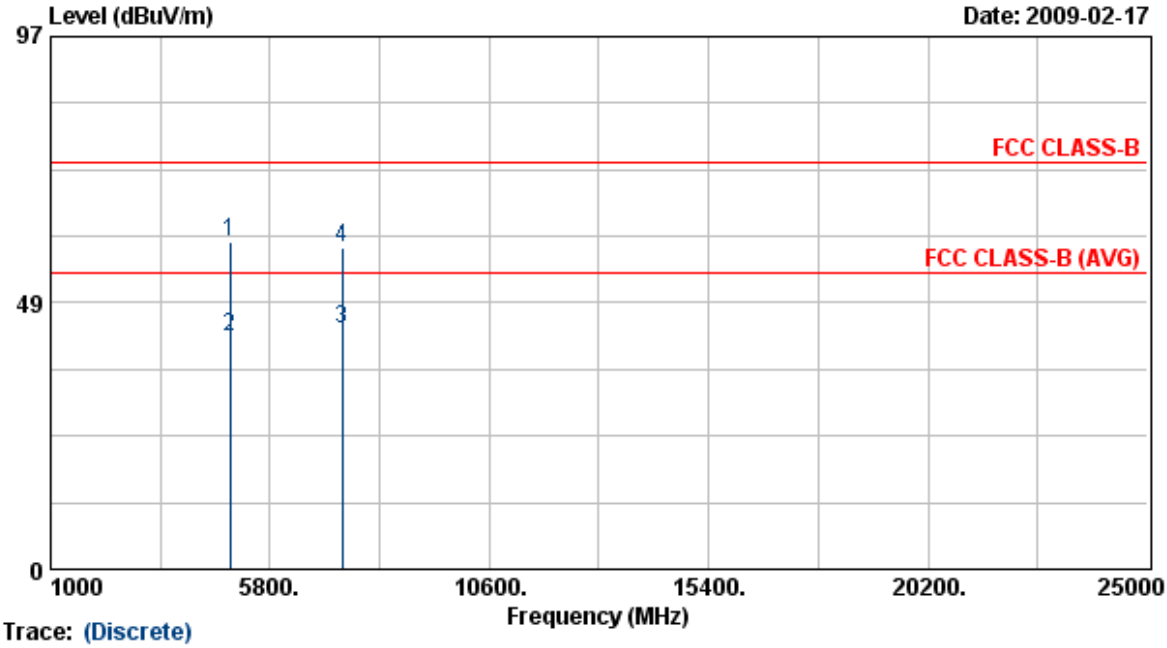
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	46.69	7.49	54.18	74.00	-19.82	Peak	100	210
2	4924.00	31.29	7.49	38.77	54.00	-15.23	Average	100	210
3	7386.00	46.80	11.76	58.55	74.00	-15.45	Peak	100	210
4	7386.00	32.30	11.76	44.06	54.00	-9.94	Average	100	210

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11b, CH11	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



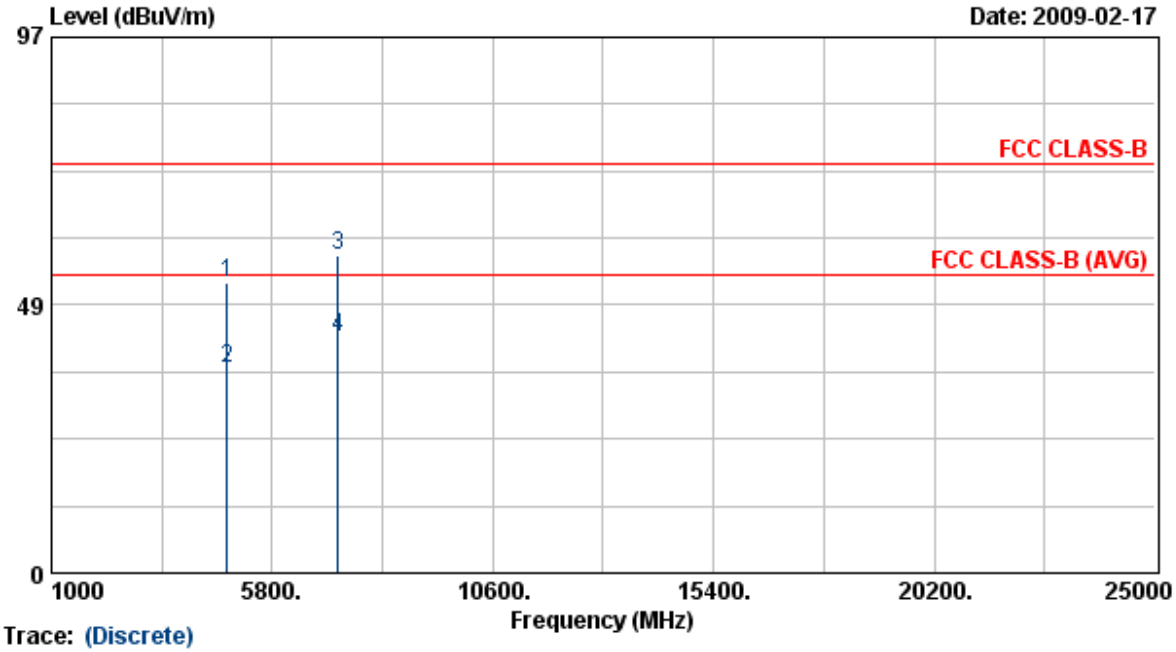
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	51.97	7.49	59.46	74.00	-14.54	Peak	150	63
2	4924.00	34.91	7.49	42.39	54.00	-11.61	Average	150	63
3	7386.00	31.99	11.76	43.74	54.00	-10.26	Average	150	63
4	7386.00	46.81	11.76	58.56	74.00	-15.44	Peak	150	63

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11g, CH1	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



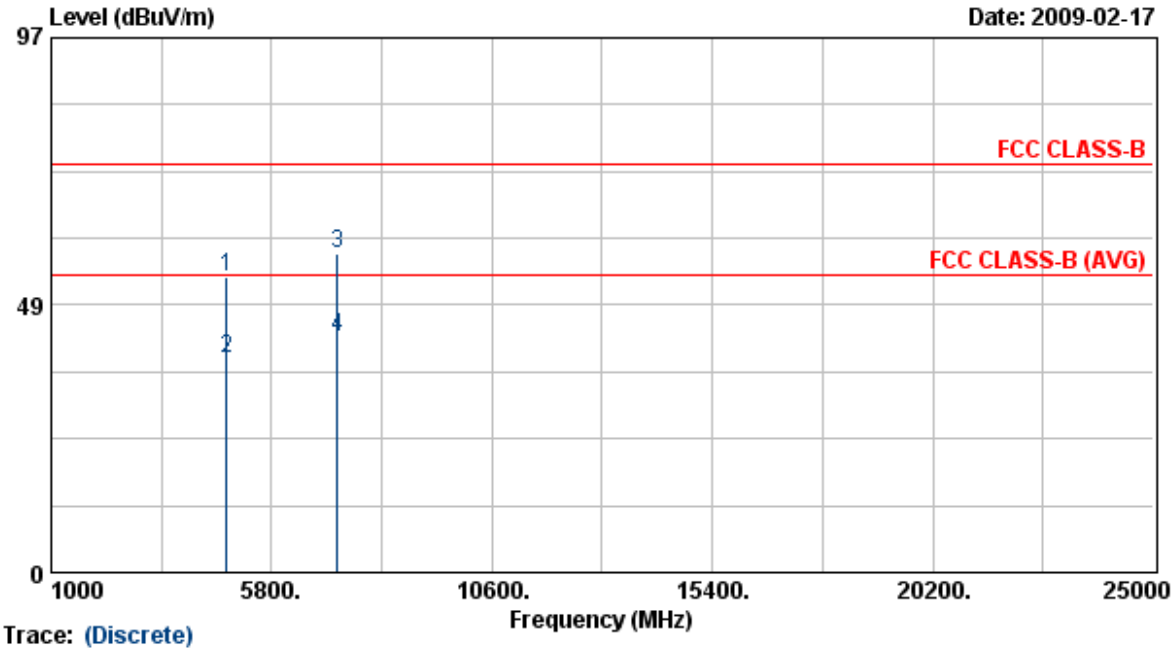
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.18	45.31	7.17	52.48	74.00	-21.52	Peak	100	116
2	4824.38	29.84	7.17	37.01	54.00	-16.99	Average	100	116
3	7236.28	46.62	11.04	57.66	74.00	-16.34	Peak	100	116
4	7240.82	31.64	11.06	42.70	54.00	-11.30	Average	100	116

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH1	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



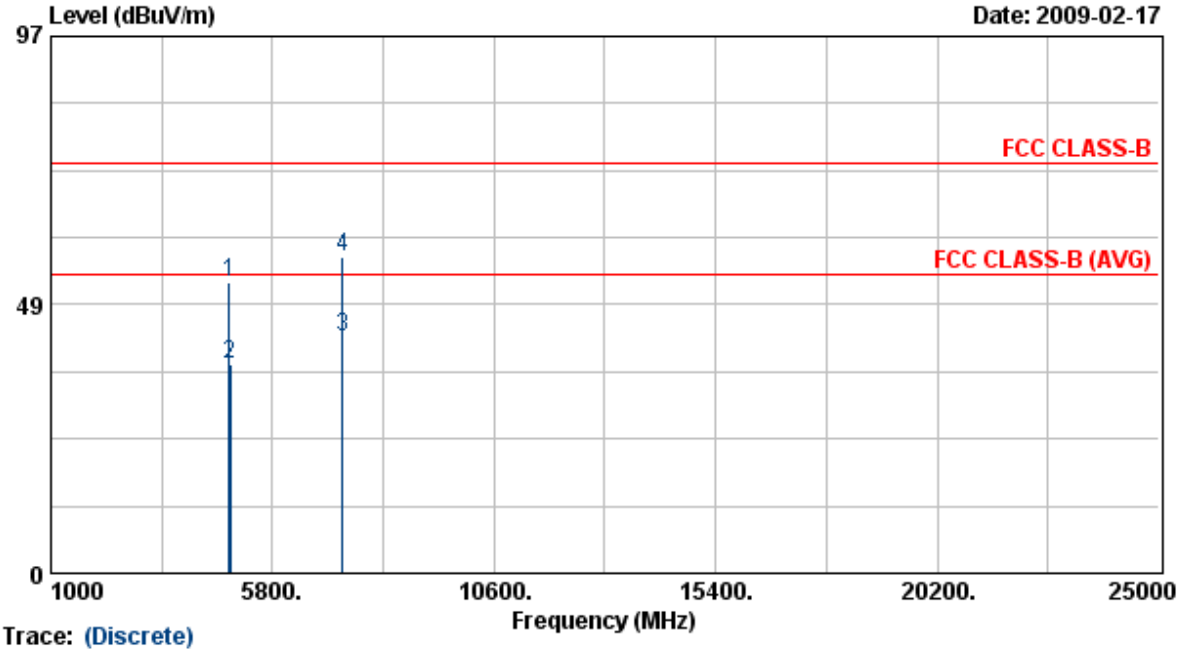
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.64	46.47	7.17	53.64	74.00	-20.36	Peak	100	118
2	4826.16	31.66	7.17	38.84	54.00	-15.16	Average	100	118
3	7238.74	46.92	11.05	57.97	74.00	-16.03	Peak	100	118
4	7240.04	31.71	11.06	42.76	54.00	-11.24	Average	100	118

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11g, CH6	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



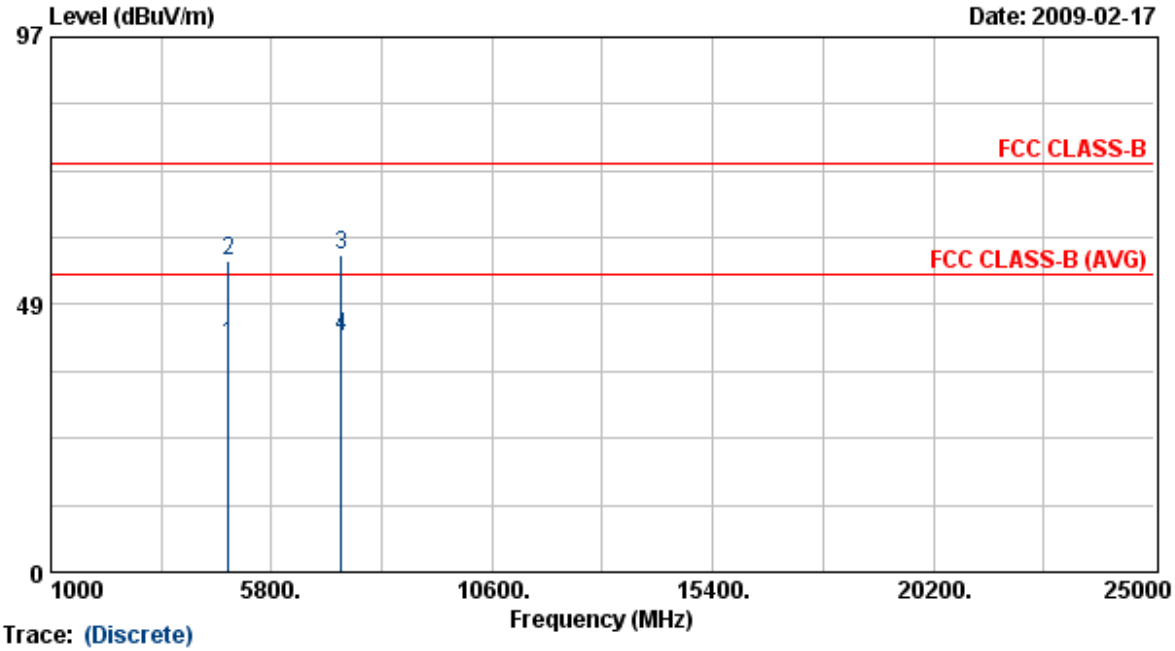
Trace: (Discrete)

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	4869.04	45.19	7.31	52.50	74.00	-21.50	Peak	100	0
2	4878.68	30.32	7.34	37.67	54.00	-16.33	Average	100	0
3	7307.82	31.27	11.38	42.66	54.00	-11.34	Average	100	0
4	7312.46	45.71	11.40	57.11	74.00	-16.89	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH6	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



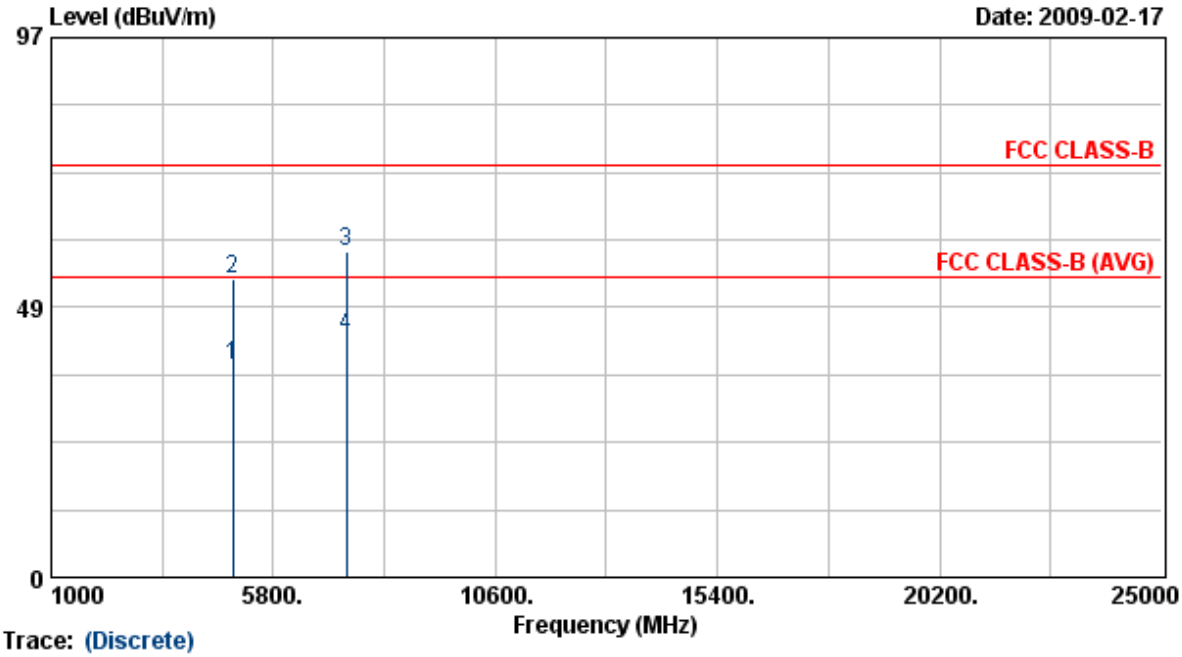
Trace: (Discrete)

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	4870.32	33.95	7.32	41.26	54.00	-12.74	Average	150	66
2	4870.54	49.19	7.32	56.50	74.00	-17.50	Peak	150	66
3	7312.14	46.10	11.40	57.50	74.00	-16.50	Peak	150	66
4	7312.46	31.38	11.40	42.78	54.00	-11.22	Average	150	66

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 1	:	802.11g, CH11	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



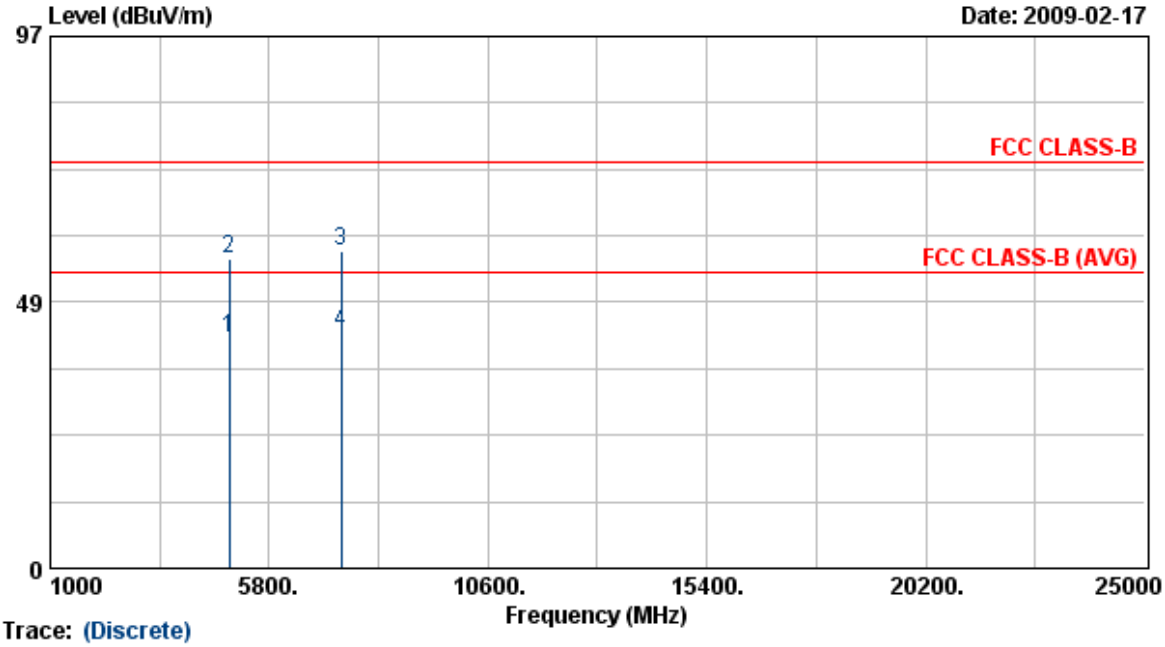
Trace: (Discrete)

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	4920.44	30.78	7.48	38.25	54.00	-15.75	Average	150	110
2	4923.50	46.08	7.49	53.56	74.00	-20.44	Peak	150	110
3	7386.12	46.90	11.76	58.65	74.00	-15.35	Peak	150	110
4	7389.38	31.50	11.77	43.27	54.00	-10.73	Average	150	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. 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 1	:	802.11g, CH11	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



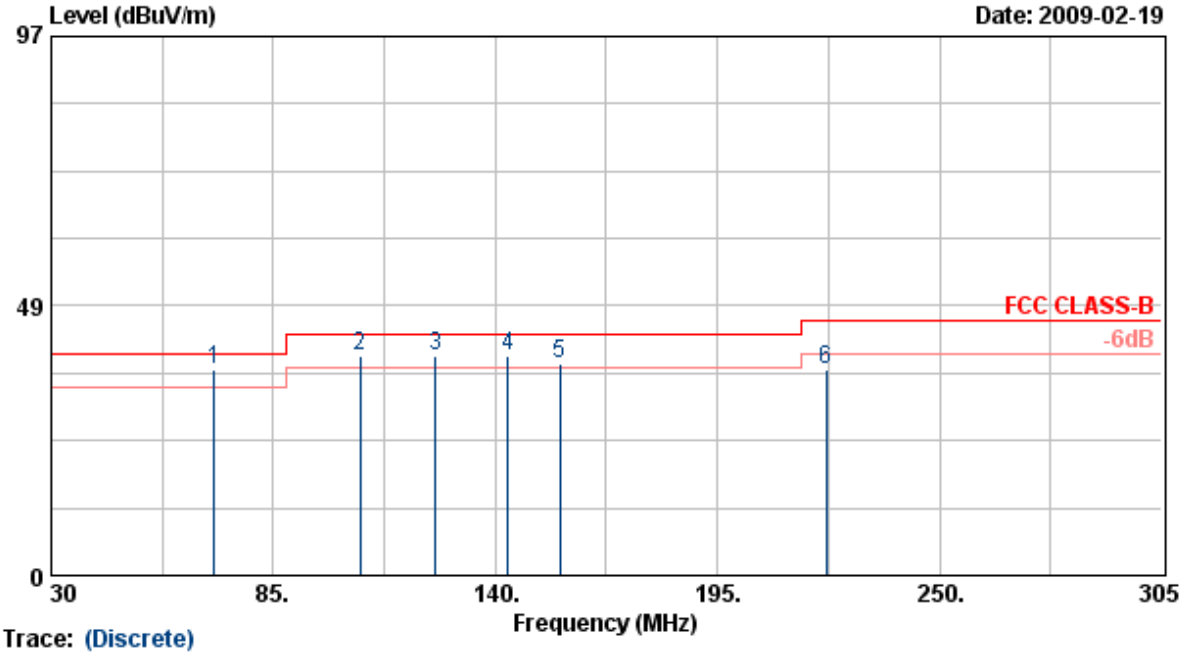
Trace: (Discrete)

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	4920.06	34.48	7.47	41.95	54.00	-12.05	Average	150	68
2	4920.30	49.05	7.47	56.52	74.00	-17.48	Peak	150	68
3	7381.58	46.04	11.73	57.77	74.00	-16.23	Peak	150	68
4	7389.34	31.16	11.77	42.93	54.00	-11.07	Average	150	68

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



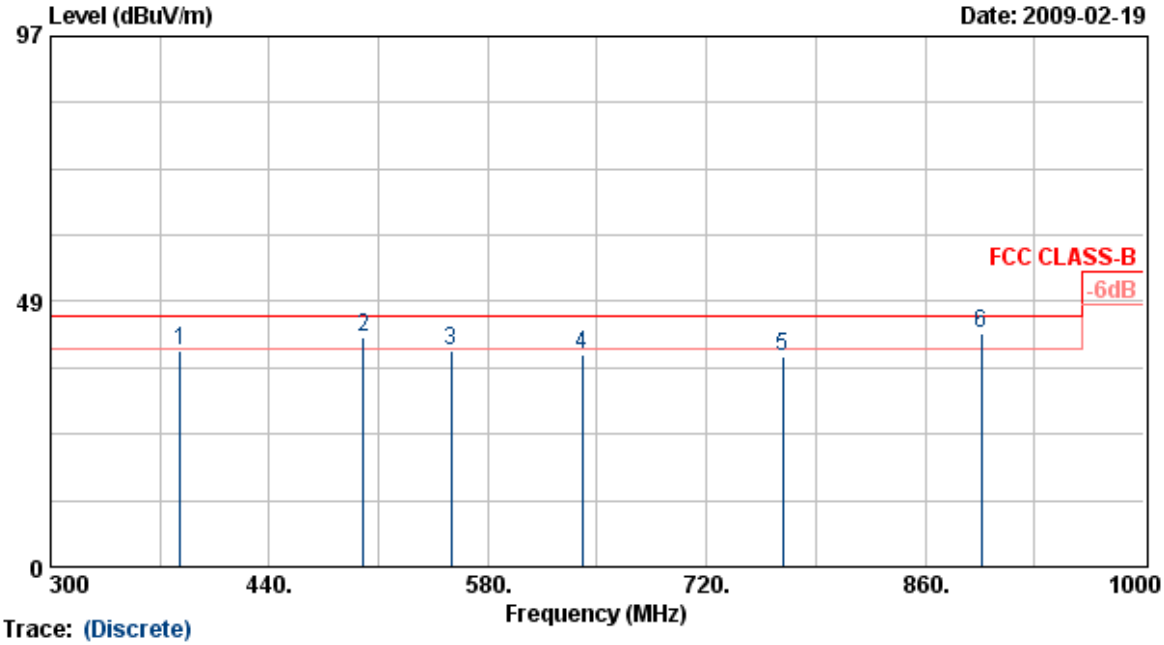
Trace: (Discrete)

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	70.43	55.48	-18.62	36.86	40.00	-3.14	QP	150	0
2	106.45	55.31	-15.72	39.59	43.50	-3.91	QP	150	0
3	125.15	53.90	-14.28	39.61	43.50	-3.89	QP	150	0
4	143.03	52.44	-12.91	39.54	43.50	-3.96	QP	150	0
5	155.95	51.58	-13.44	38.14	43.50	-5.36	QP	150	0
6	221.95	52.33	-15.41	36.92	46.00	-9.08	Peak	150	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



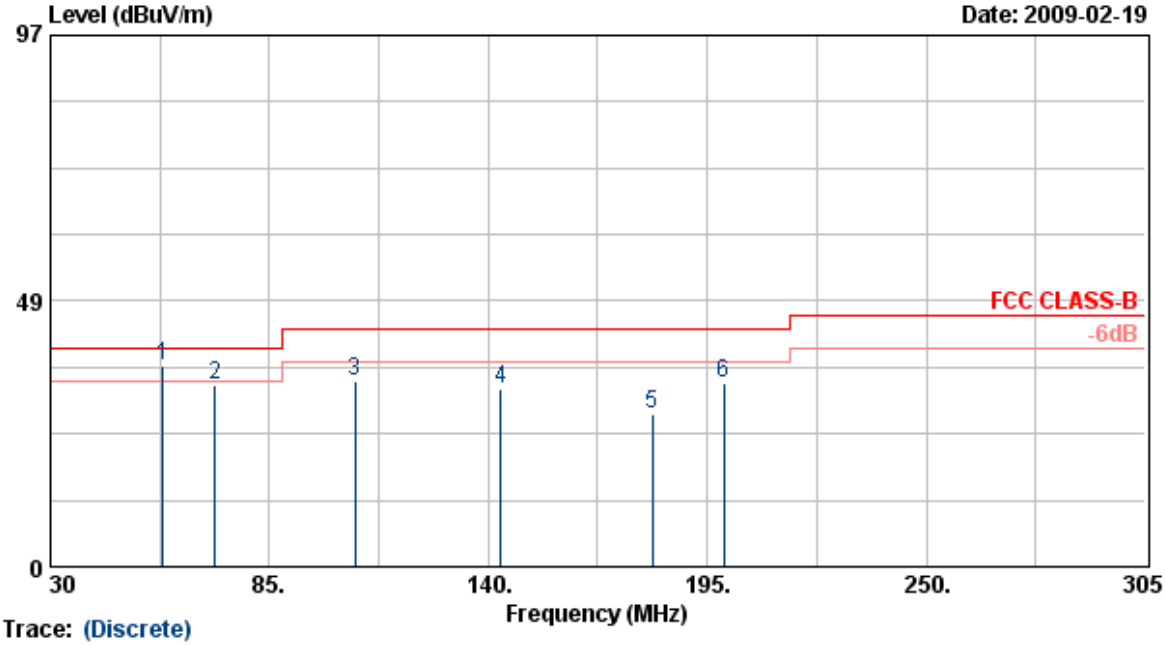
Trace: (Discrete)

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	383.30	49.60	-9.94	39.66	46.00	-6.34	Peak	102	0
2	500.20	50.02	-7.87	42.15	46.00	-3.85	QP	102	0
3	556.20	41.20	-1.74	39.46	46.00	-6.54	Peak	102	0
4	640.20	45.75	-7.03	38.71	46.00	-7.29	Peak	102	0
5	769.00	40.40	-2.12	38.28	46.00	-7.72	Peak	102	0
6	895.70	44.56	-1.80	42.77	46.00	-3.23	QP	102	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %

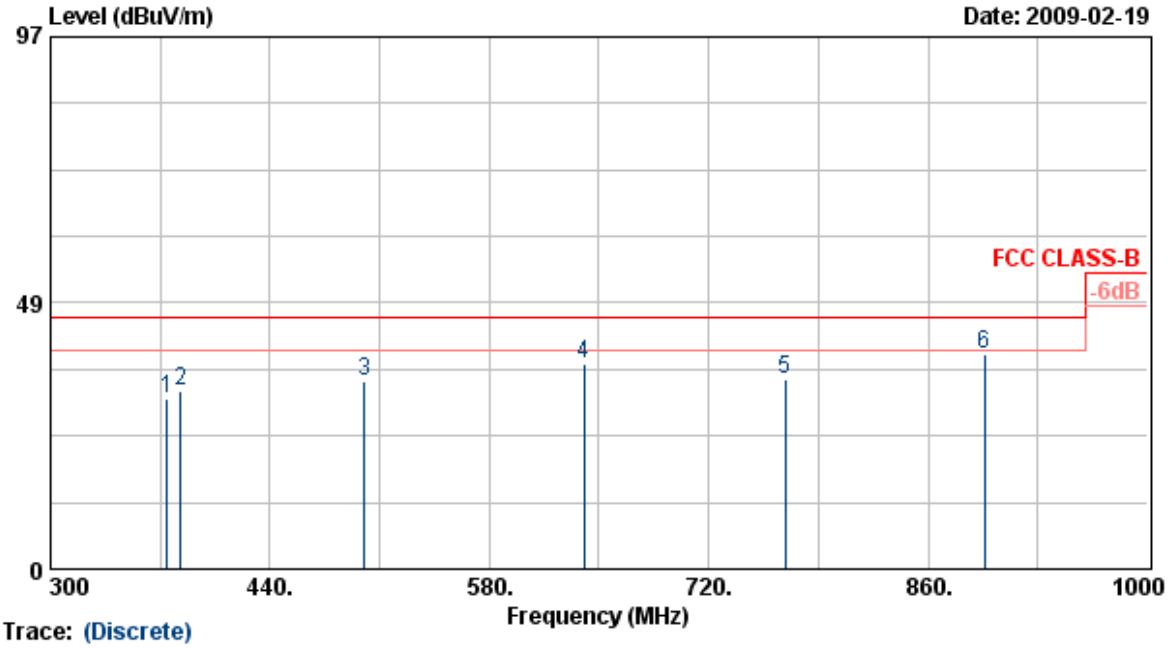


Trace: (Discrete)

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	58.33	59.02	-22.34	36.68	40.00	-3.32	QP	150	0
2	71.25	56.78	-23.65	33.13	40.00	-6.87	Peak	150	0
3	106.45	53.87	-20.00	33.87	43.50	-9.63	Peak	150	0
4	143.03	51.86	-19.50	32.36	43.50	-11.14	Peak	150	0
5	181.25	48.04	-20.11	27.93	43.50	-15.57	Peak	150	0
6	199.13	53.06	-19.64	33.42	43.50	-10.08	Peak	150	0

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



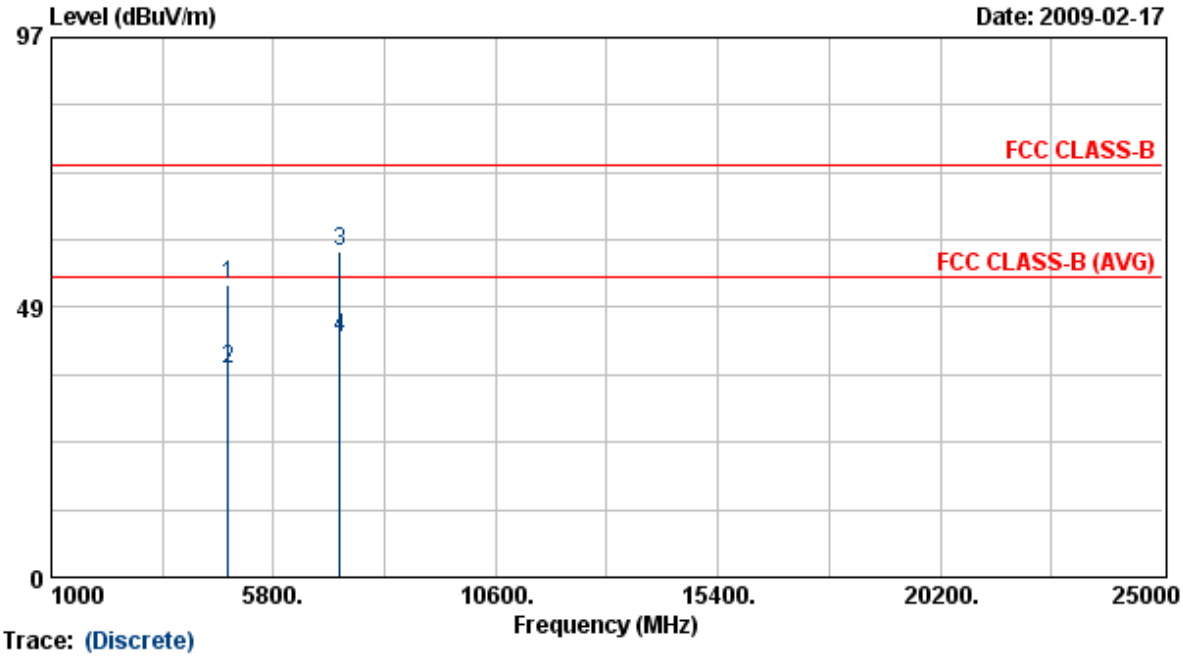
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	374.20	44.39	-13.24	31.16	46.00	-14.84	Peak	102	0
2	383.30	45.51	-12.90	32.60	46.00	-13.40	Peak	102	0
3	500.20	41.46	-7.23	34.23	46.00	-11.77	Peak	102	0
4	640.20	41.58	-4.20	37.37	46.00	-8.63	Peak	102	0
5	769.00	37.49	-2.85	34.64	46.00	-11.36	Peak	102	0
6	895.70	38.98	0.34	39.32	46.00	-6.68	Peak	102	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



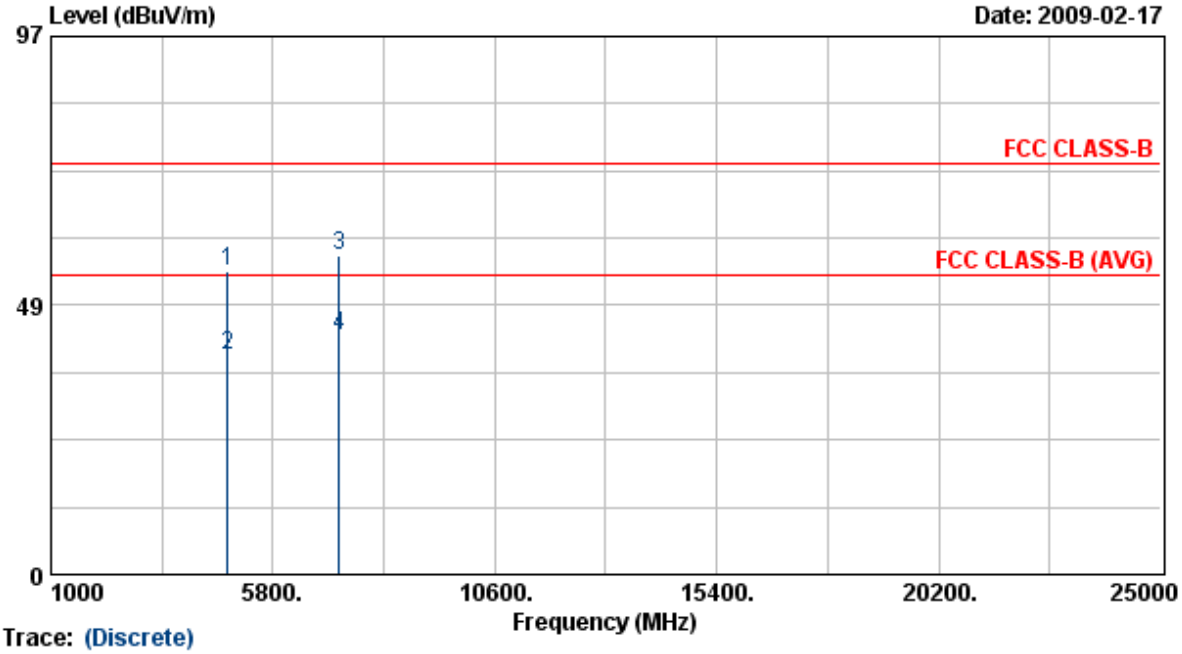
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.28	45.32	7.17	52.49	74.00	-21.51	Peak	150	69
2	4826.44	30.06	7.17	37.24	54.00	-16.76	Average	150	69
3	7234.68	47.61	11.03	58.64	74.00	-15.36	Peak	150	69
4	7235.16	31.88	11.03	42.92	54.00	-11.08	Average	150	69

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	802.11n HT20, CH1	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



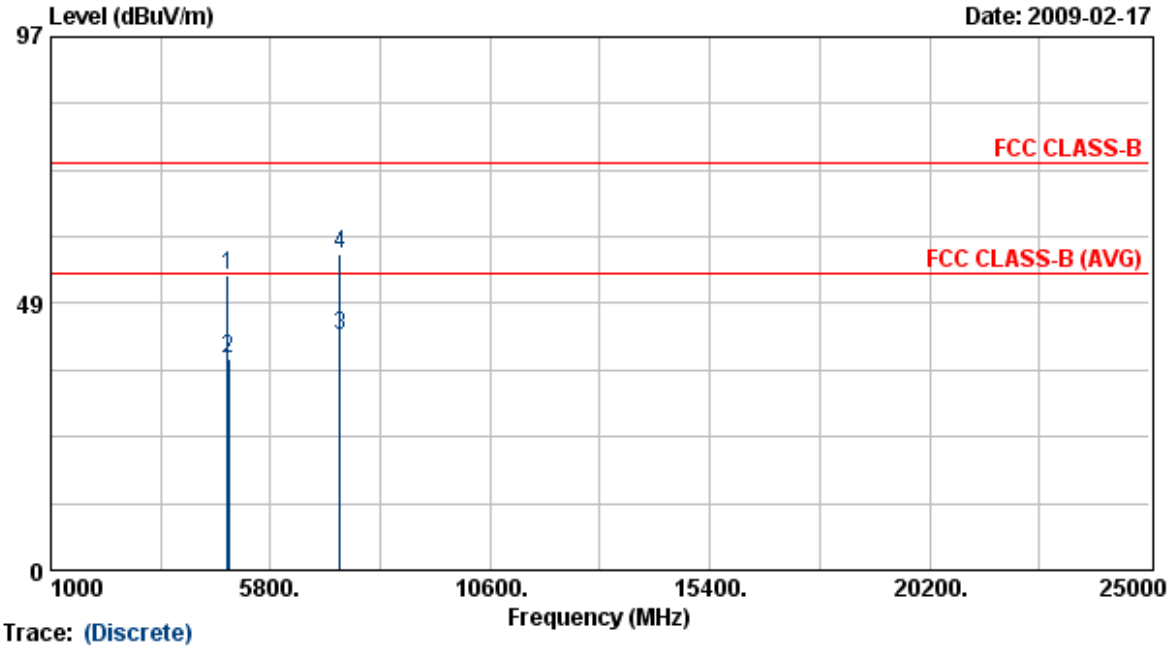
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.26	47.57	7.17	54.74	74.00	-19.26	Peak	150	128
2	4828.96	32.25	7.18	39.43	54.00	-14.57	Average	150	128
3	7236.50	46.42	11.04	57.46	74.00	-16.54	Peak	150	128
4	7237.64	31.95	11.05	43.00	54.00	-11.00	Average	150	128

Notes:

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 2	:	802.11n HT20, CH6	Temperature	:	22 °C
Memo	:	MT12-Y120100-A1	Humidity	:	70 %



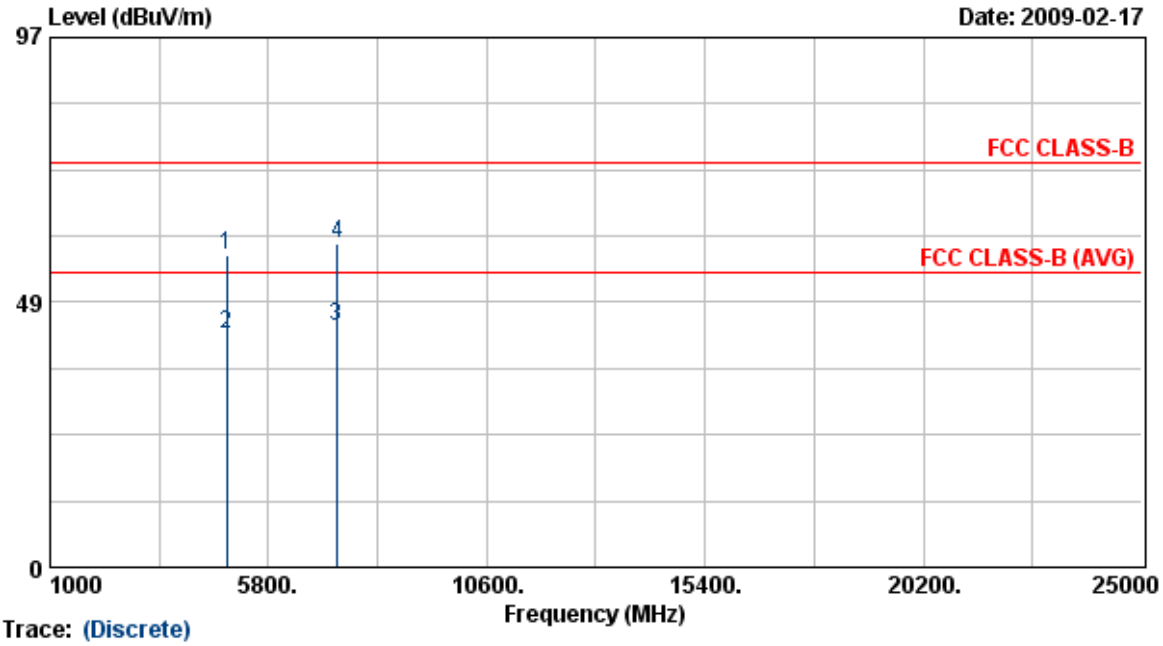
Trace: (Discrete)

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	4869.62	46.23	7.31	53.55	74.00	-20.45	Peak	100	156
2	4873.90	31.18	7.33	38.50	54.00	-15.50	Average	100	156
3	7307.70	31.27	11.38	42.65	54.00	-11.35	Average	100	156
4	7310.46	46.02	11.39	57.42	74.00	-16.58	Peak	100	156

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	802.11n HT20, CH6	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



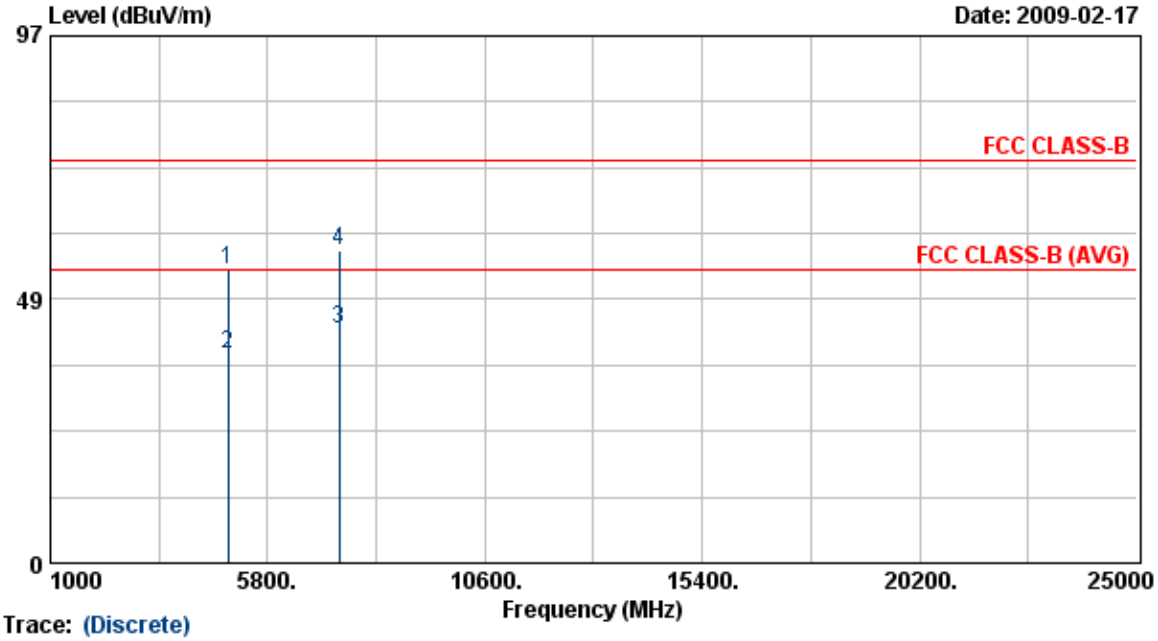
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.60	49.76	7.33	57.09	74.00	-16.91	Peak	150	133
2	4873.94	35.21	7.33	42.54	54.00	-11.46	Average	150	133
3	7306.56	32.64	11.38	44.02	54.00	-9.98	Average	150	133
4	7307.48	47.71	11.38	59.09	74.00	-14.91	Peak	150	133

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 2	:	802.11n HT20, CH11	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



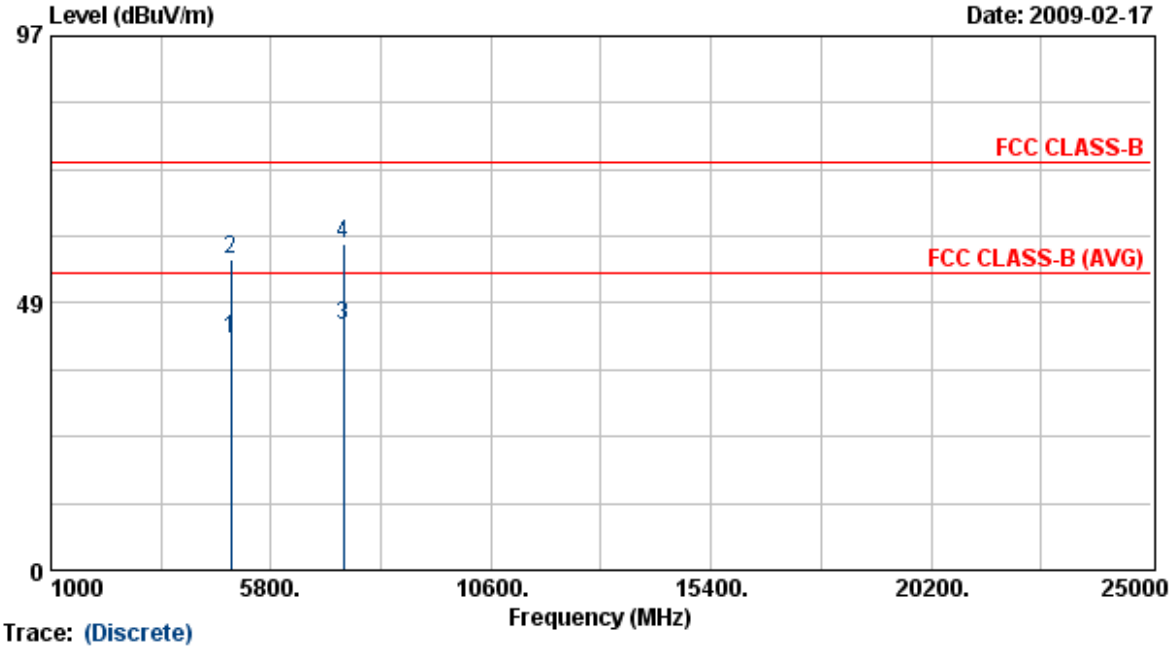
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4919.62	46.42	7.47	53.90	74.00	-20.10	Peak	100	67
2	4923.32	30.82	7.48	38.30	54.00	-15.70	Average	100	67
3	7389.36	31.16	11.77	42.93	54.00	-11.07	Average	100	67
4	7390.06	45.68	11.77	57.45	74.00	-16.55	Peak	100	67

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 2	:	802.11n HT20, CH11	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



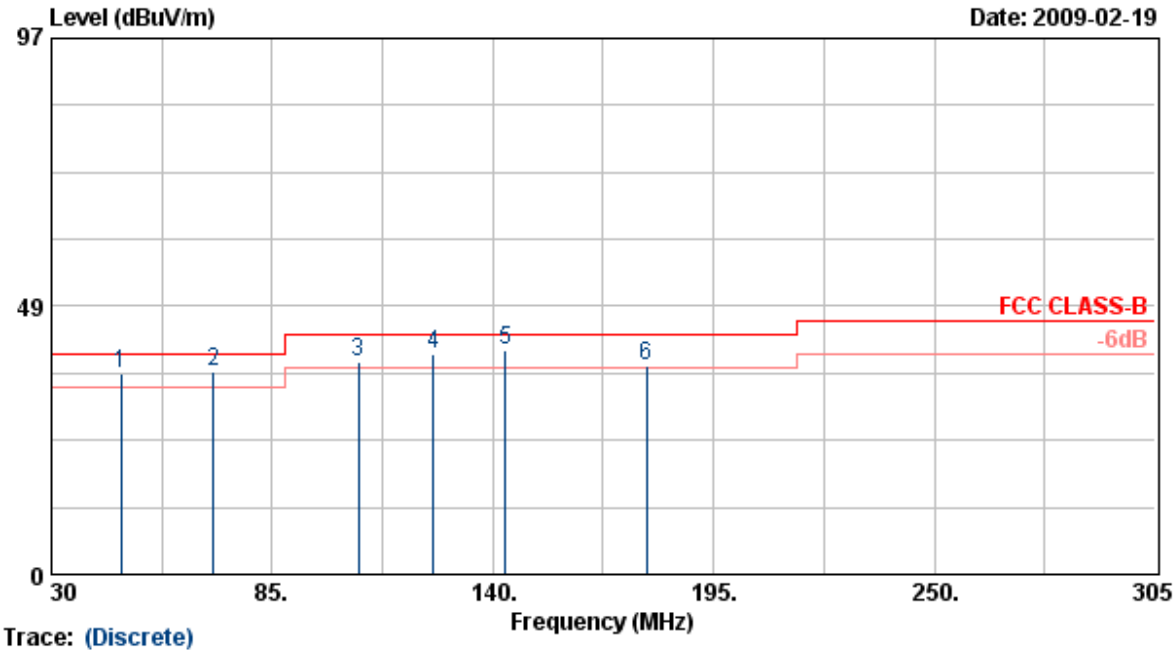
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4923.46	34.60	7.49	42.08	54.00	-11.92	Average	138	136
2	4925.10	48.87	7.49	56.36	74.00	-17.64	Peak	138	136
3	7386.76	32.66	11.76	44.42	54.00	-9.58	Average	138	136
4	7386.78	47.58	11.76	59.34	74.00	-14.66	Peak	138	136

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



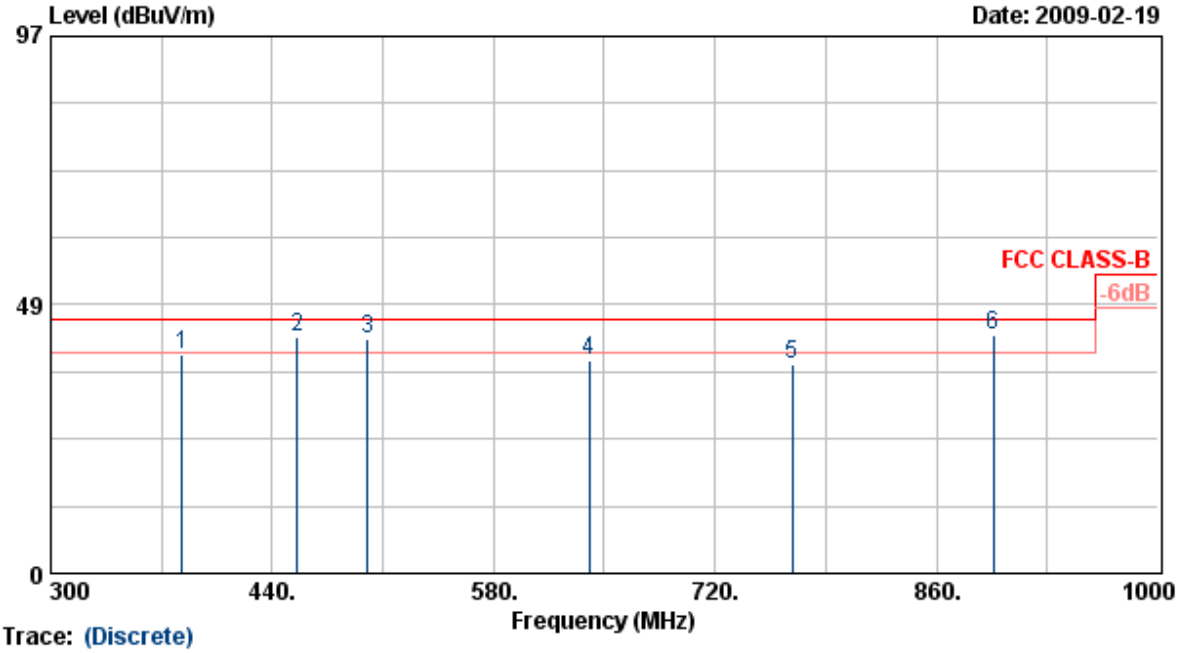
Trace: (Discrete)

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	47.33	53.71	-17.41	36.31	40.00	-3.69	QP	150	0
2	70.43	55.36	-18.62	36.74	40.00	-3.26	QP	150	0
3	106.45	54.15	-15.72	38.43	43.50	-5.07	QP	150	0
4	125.15	54.23	-14.28	39.94	43.50	-3.56	QP	150	0
5	143.03	53.36	-12.91	40.45	43.50	-3.05	QP	150	0
6	178.23	49.76	-12.11	37.64	43.50	-5.86	QP	150	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



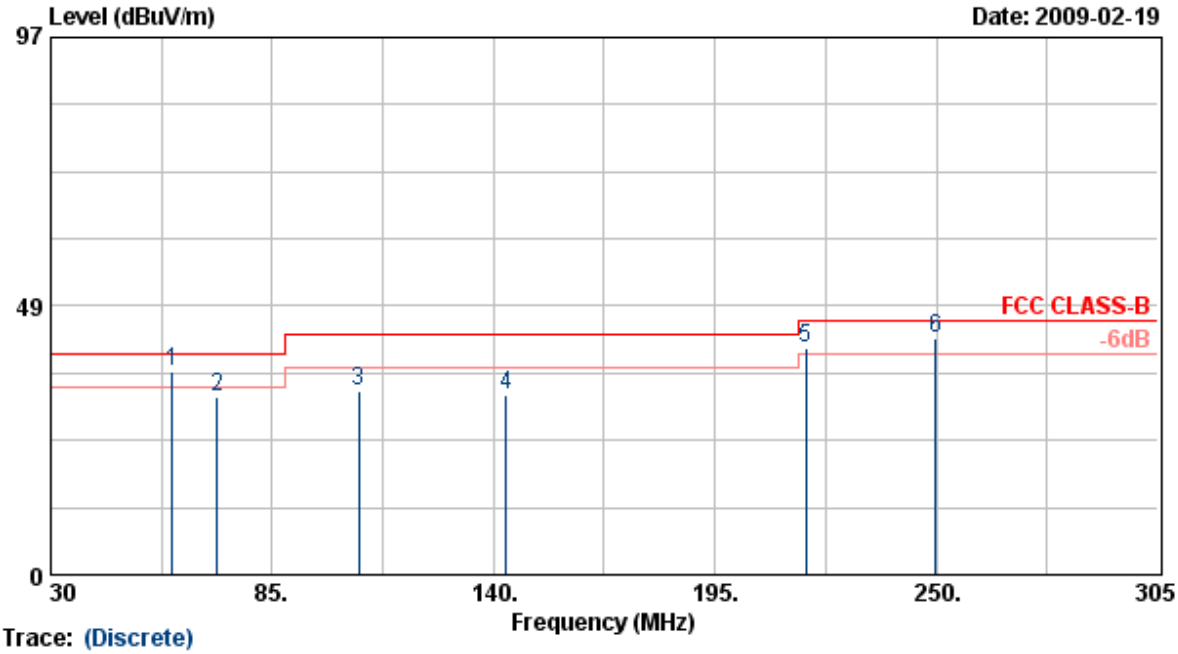
Trace: (Discrete)

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	383.30	49.41	-9.94	39.47	46.00	-6.53	Peak	102	0
2	456.10	49.14	-6.31	42.83	46.00	-3.17	QP	102	0
3	500.20	50.26	-7.87	42.40	46.00	-3.60	QP	102	0
4	640.20	45.40	-7.03	38.36	46.00	-7.64	Peak	102	0
5	769.00	39.95	-2.12	37.82	46.00	-8.18	Peak	102	0
6	895.70	44.76	-1.80	42.97	46.00	-3.03	QP	102	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



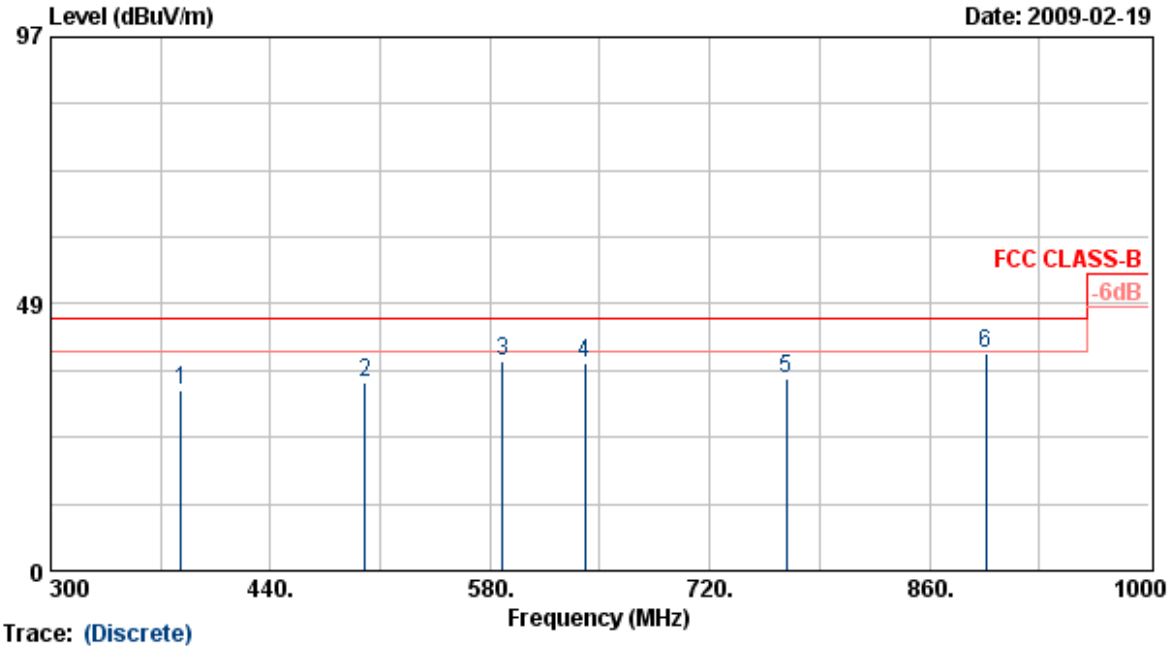
Trace: (Discrete)

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	60.25	59.33	-22.75	36.58	40.00	-3.42	QP	150	0
2	71.25	55.87	-23.65	32.22	40.00	-7.78	Peak	150	0
3	106.45	53.28	-20.00	33.28	43.50	-10.22	Peak	150	0
4	143.03	51.96	-19.50	32.47	43.50	-11.03	Peak	150	0
5	217.55	60.17	-19.31	40.86	46.00	-5.14	QP	150	0
6	249.73	61.54	-18.72	42.82	46.00	-3.18	QP	150	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	20 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



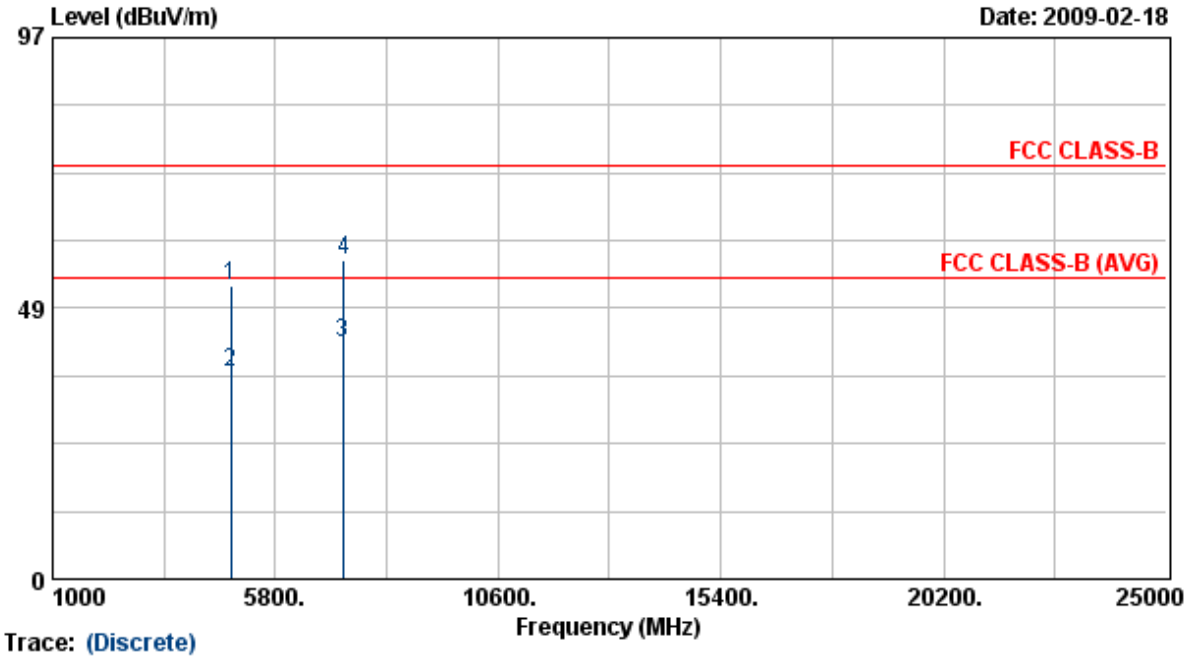
Trace: (Discrete)

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	383.30	45.60	-12.90	32.70	46.00	-13.30	Peak	102	0
2	500.20	41.40	-7.23	34.17	46.00	-11.83	Peak	102	0
3	587.70	38.65	-0.38	38.27	46.00	-7.73	Peak	102	0
4	640.20	41.93	-4.20	37.72	46.00	-8.28	Peak	102	0
5	769.00	37.90	-2.85	35.04	46.00	-10.96	Peak	102	0
6	895.70	39.16	0.34	39.50	46.00	-6.50	Peak	102	0

Notes:

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

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



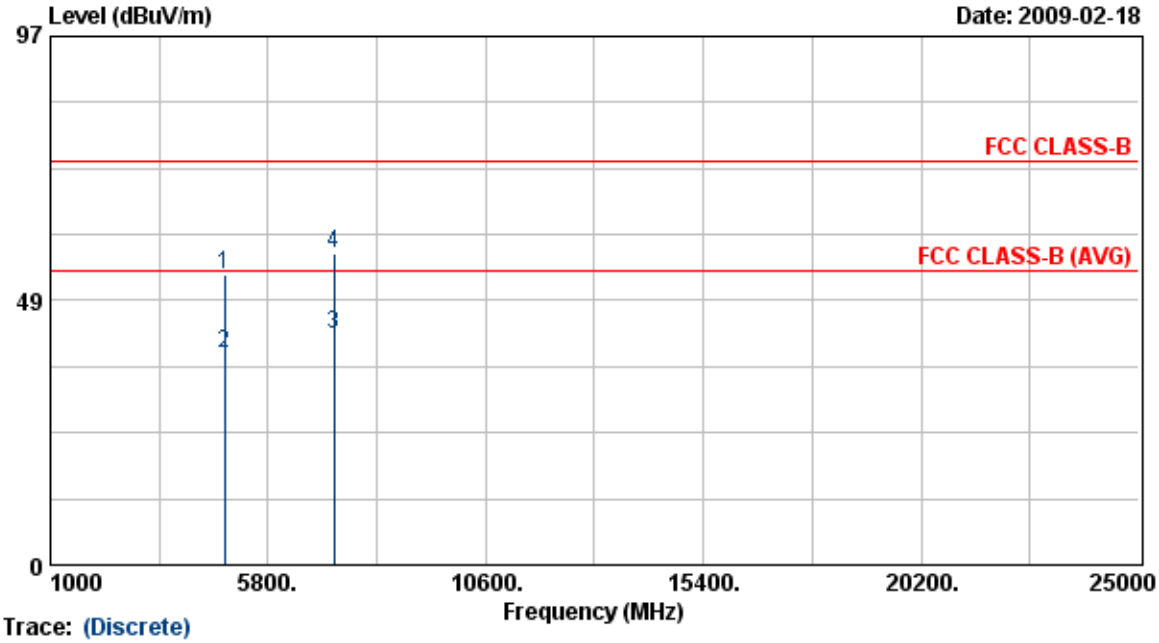
Trace: (Discrete)

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	4846.76	45.25	7.24	52.49	74.00	-21.51	Peak	101	109
2	4847.12	29.71	7.24	36.95	54.00	-17.05	Average	101	109
3	7261.16	31.31	11.16	42.46	54.00	-11.54	Average	101	109
4	7269.50	45.97	11.20	57.17	74.00	-16.83	Peak	101	109

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 3	:	802.11n HT40, CH3	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



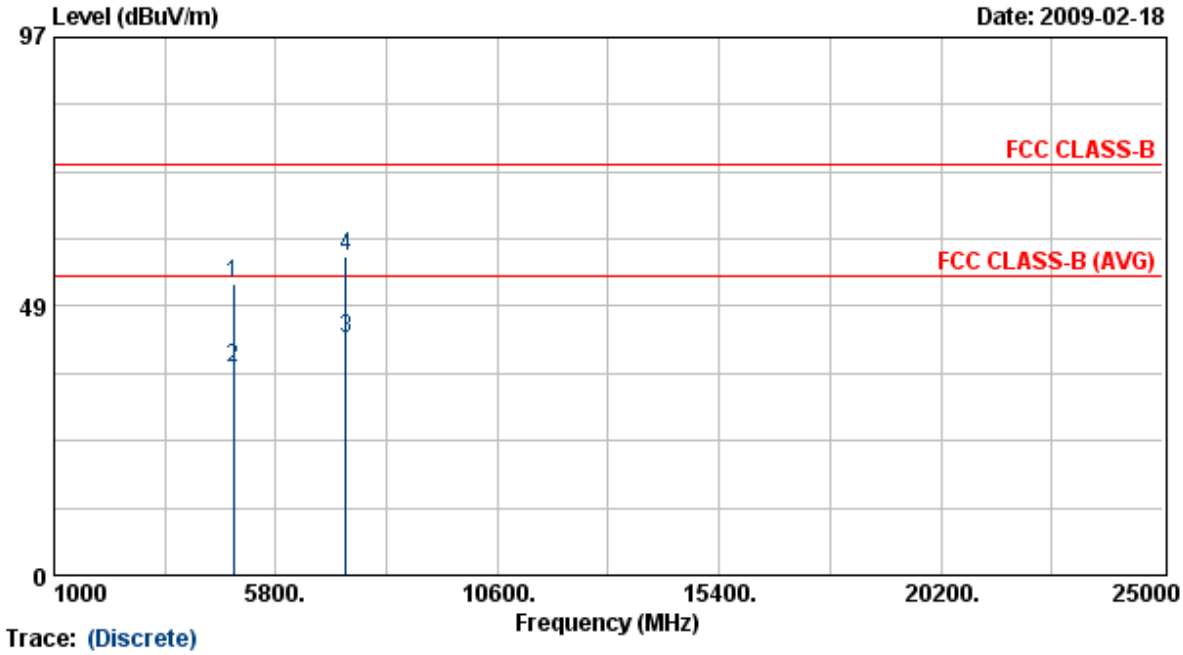
Trace: (Discrete)

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	4847.80	46.02	7.24	53.26	74.00	-20.74	Peak	150	65
2	4849.00	31.58	7.25	38.83	54.00	-15.17	Average	150	65
3	7261.22	31.23	11.16	42.38	54.00	-11.62	Average	150	65
4	7263.24	45.84	11.17	57.00	74.00	-17.00	Peak	150	65

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 3	:	802.11n HT40, CH6	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



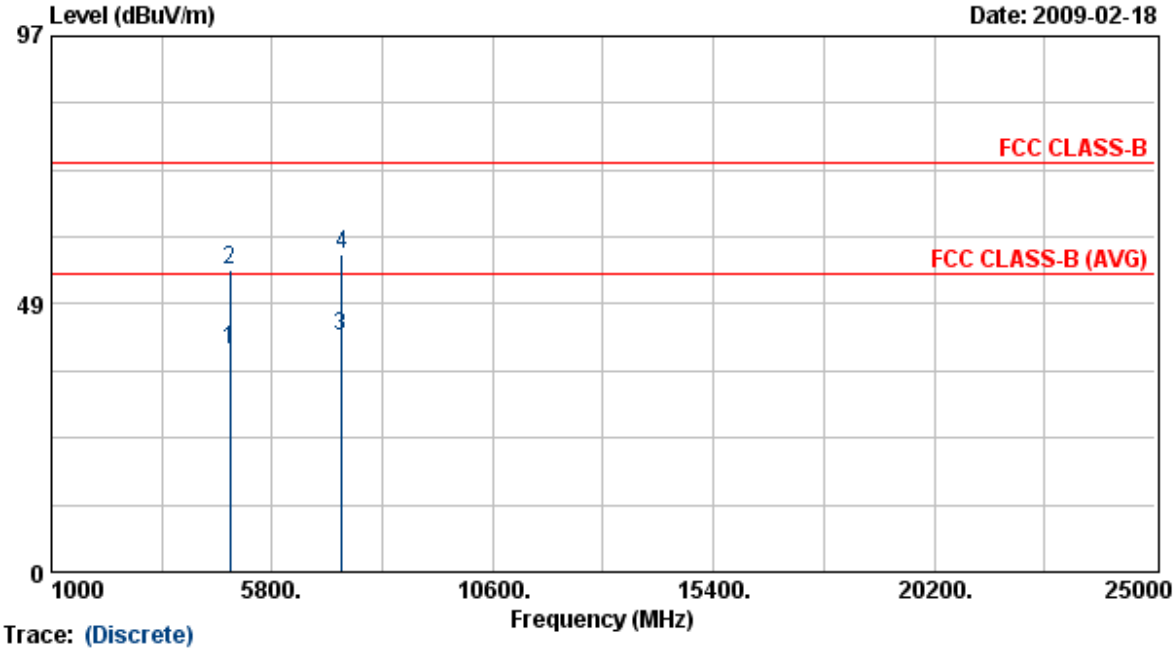
Trace: (Discrete)

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	4878.08	45.24	7.34	52.58	74.00	-21.42	Peak	100	108
2	4878.86	30.05	7.34	37.40	54.00	-16.60	Average	100	108
3	7307.06	31.38	11.38	42.76	54.00	-11.24	Average	100	108
4	7307.50	46.21	11.38	57.59	74.00	-16.41	Peak	100	108

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 3	:	802.11n HT40, CH6	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



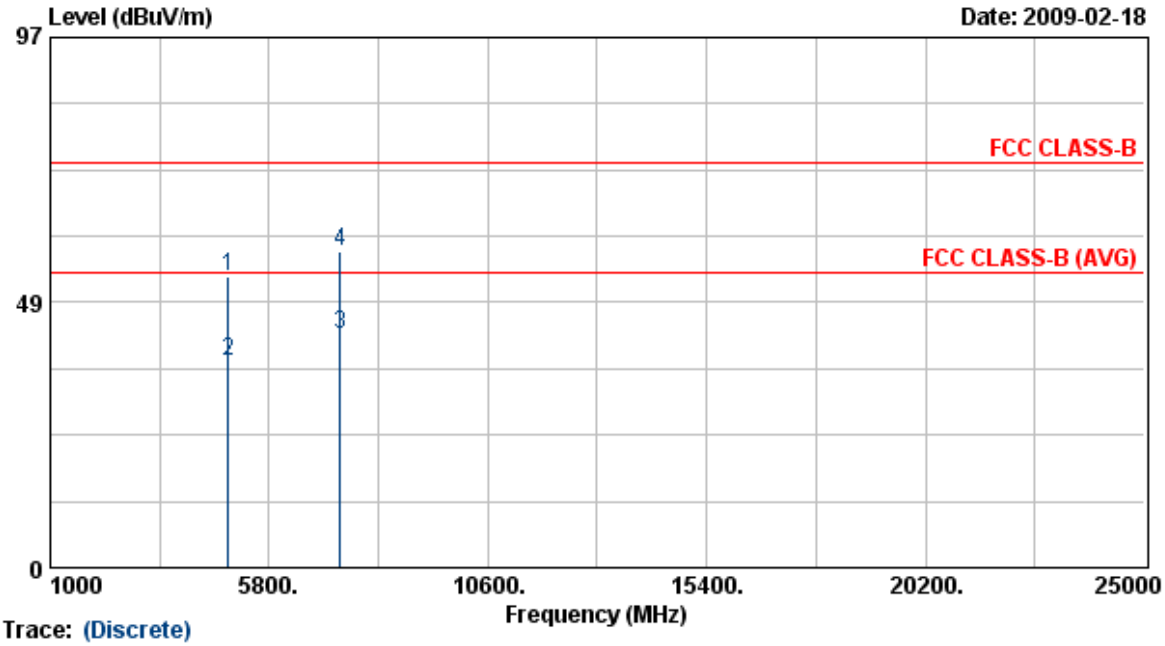
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.40	32.80	7.33	40.13	54.00	-13.87	Average	150	67
2	4876.42	47.21	7.33	54.54	74.00	-19.46	Peak	150	67
3	7306.58	31.29	11.38	42.66	54.00	-11.34	Average	150	67
4	7310.34	46.21	11.39	57.61	74.00	-16.39	Peak	150	67

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode 3	:	802.11n HT40, CH9	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



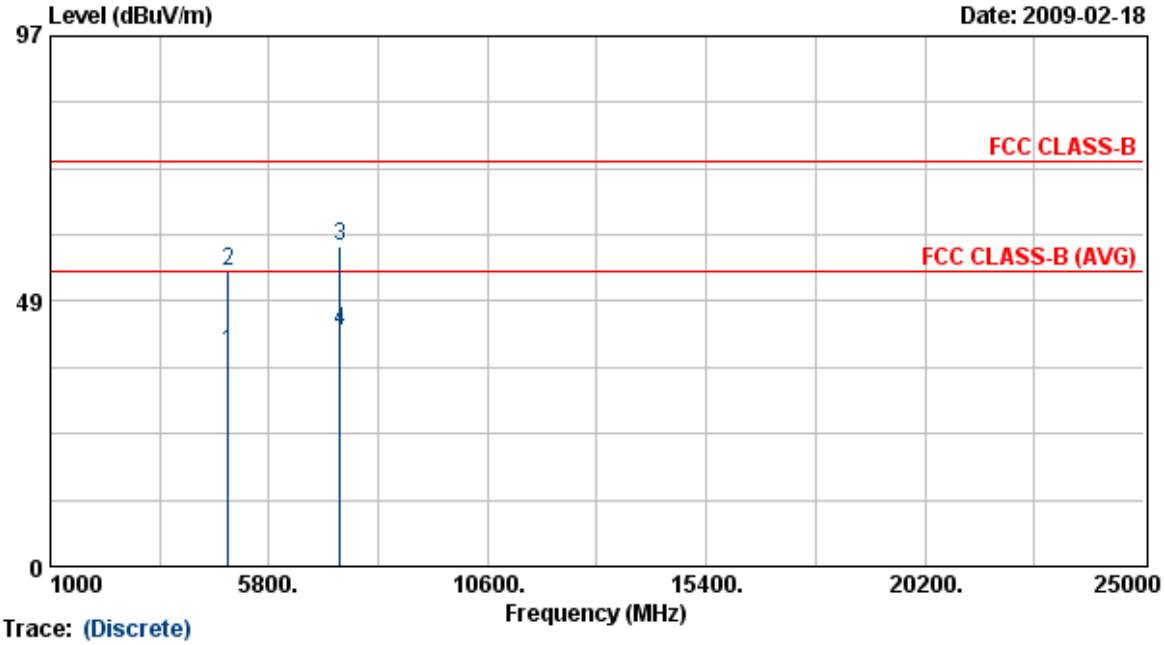
Trace: (Discrete)

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	4901.88	45.79	7.42	53.21	74.00	-20.79	Peak	100	110
2	4907.52	30.36	7.43	37.80	54.00	-16.20	Average	100	110
3	7352.36	30.95	11.59	42.54	54.00	-11.46	Average	100	110
4	7353.64	46.39	11.60	57.99	74.00	-16.01	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. 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	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode 3	:	802.11n HT40, CH9	Temperature	:	18 °C
Memo	:	MT12-Y120100-A1	Humidity	:	65 %



Trace: (Discrete)

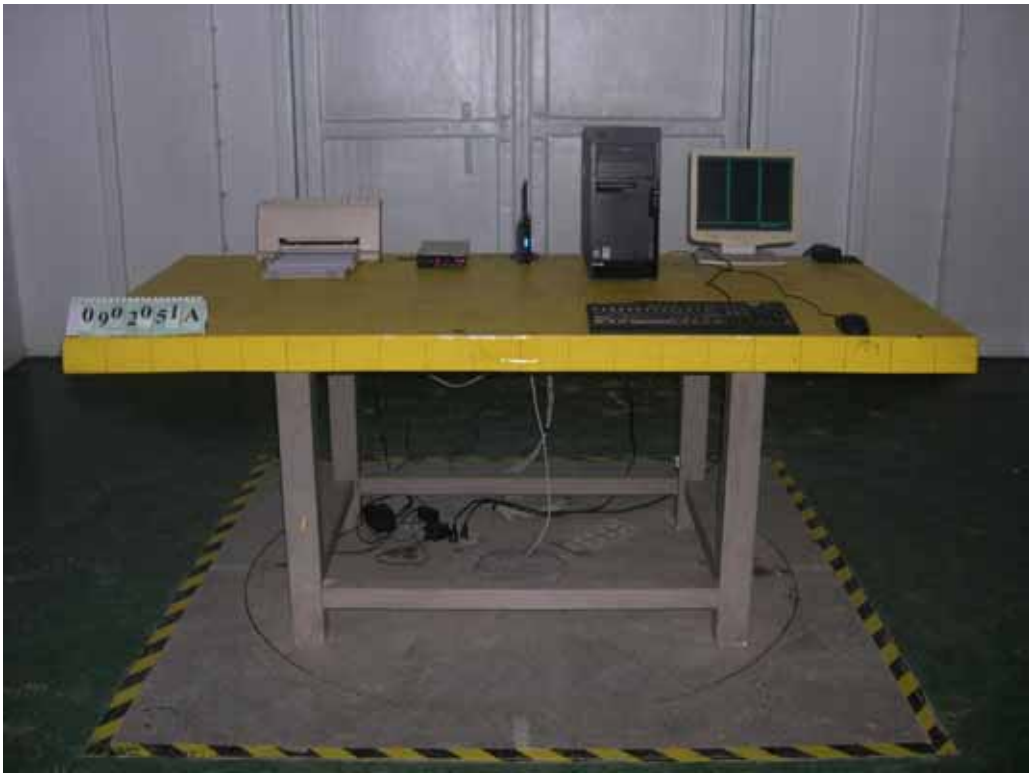
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4904.62	31.68	7.42	39.11	54.00	-14.89	Average	150	128
2	4907.76	46.57	7.43	54.01	74.00	-19.99	Peak	150	128
3	7353.02	46.98	11.60	58.58	74.00	-15.42	Peak	150	128
4	7354.48	31.58	11.60	43.18	54.00	-10.82	Average	150	128

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

Test engineer: Ben

5.6 Test Photographs

Front View



Rear View

6. 6dB Bandwidth Measurement Data

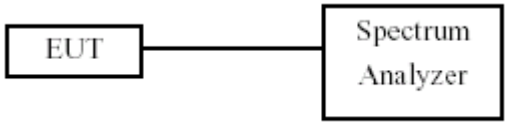
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

a. The transmitter output was connected to the spectrum analyzer.
b. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement Equipment

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

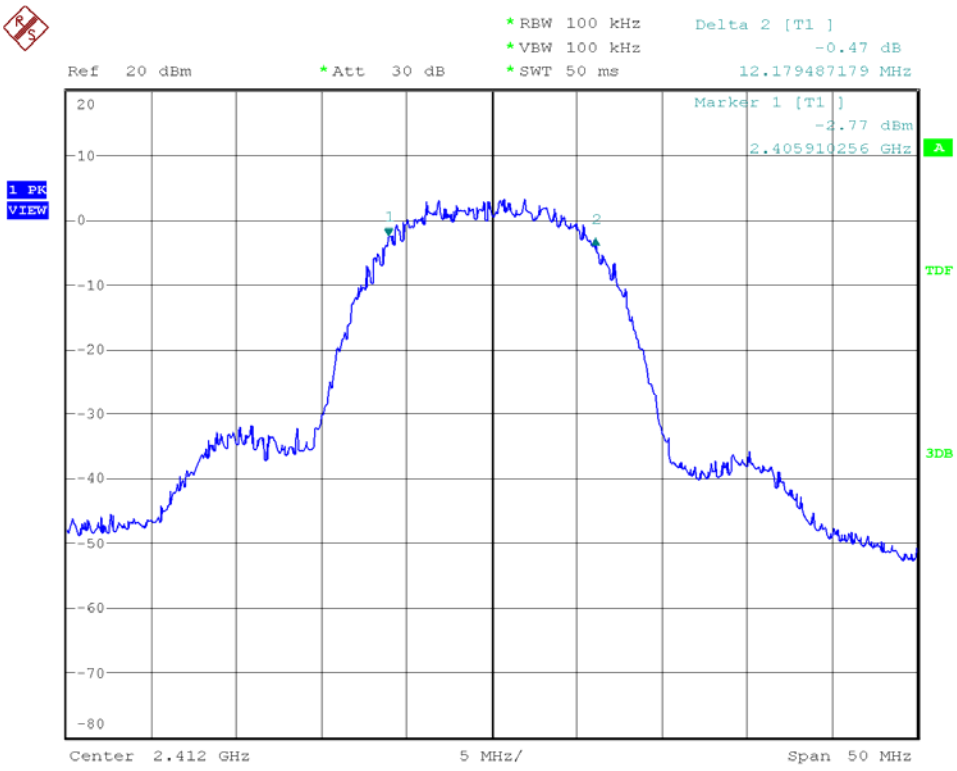
6.5 Test Result and Data

Test Date: Feb. 16, 2009 Temperature: 26℃

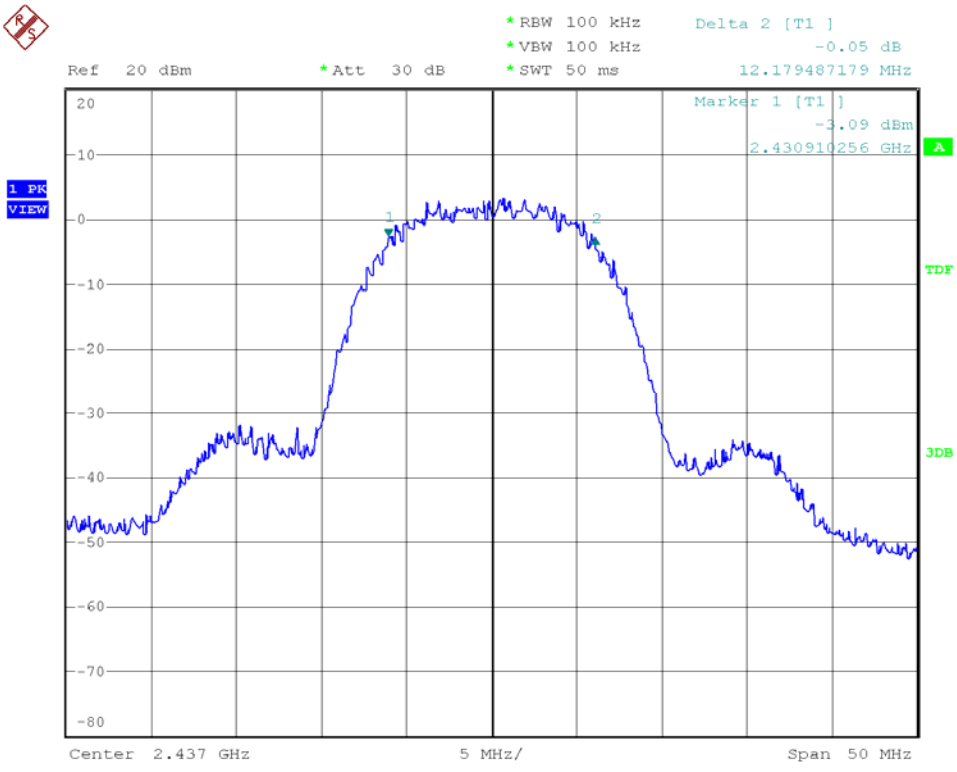
Atmospheric pressure: 1027 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			Ant1	Ant2
802.11b (11Mbps)	01	2412	12.17	12.17
	06	2437	12.17	12.17
	11	2462	12.17	12.17
802.11g (54Mbps)	01	2412	16.42	16.50
	06	2437	16.50	16.50
	11	2462	16.50	16.50
802.11n HT20 (130Mbps)	01	2412	17.62	17.62
	06	2437	17.62	17.62
	11	2462	17.54	17.62
802.11n HT40 (270Mbps)	03	2422	36.21	36.53
	06	2437	35.25	35.57
	09	2452	36.21	36.37

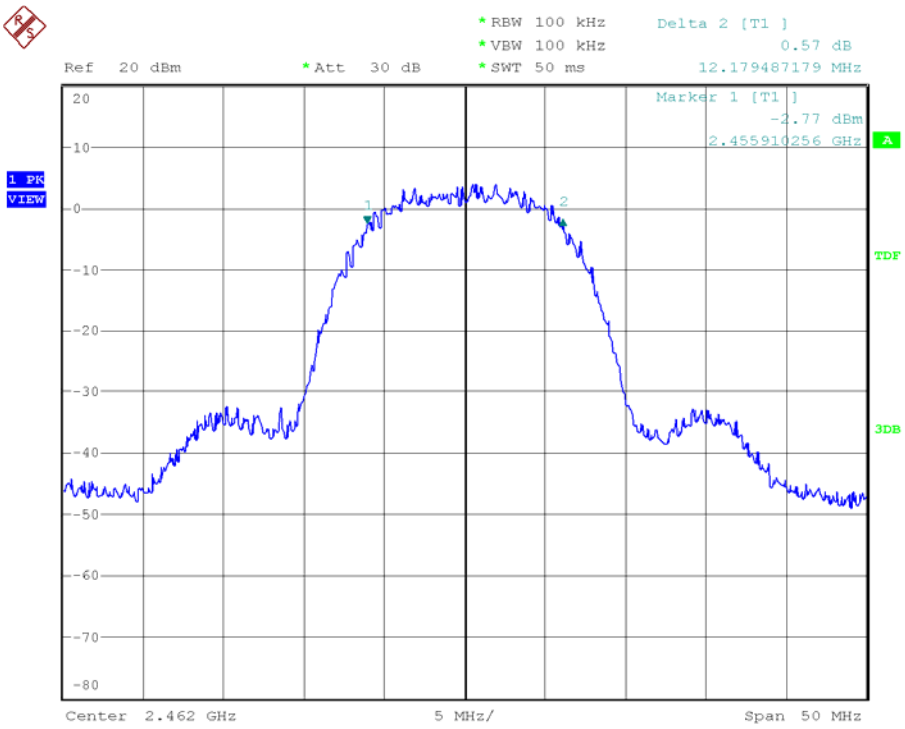
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



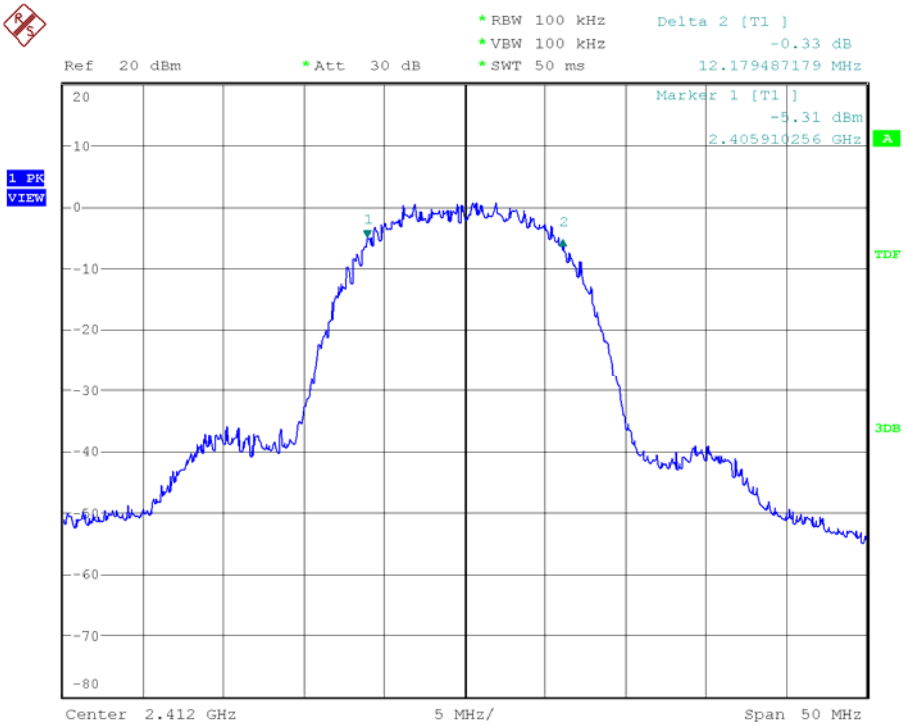
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 06



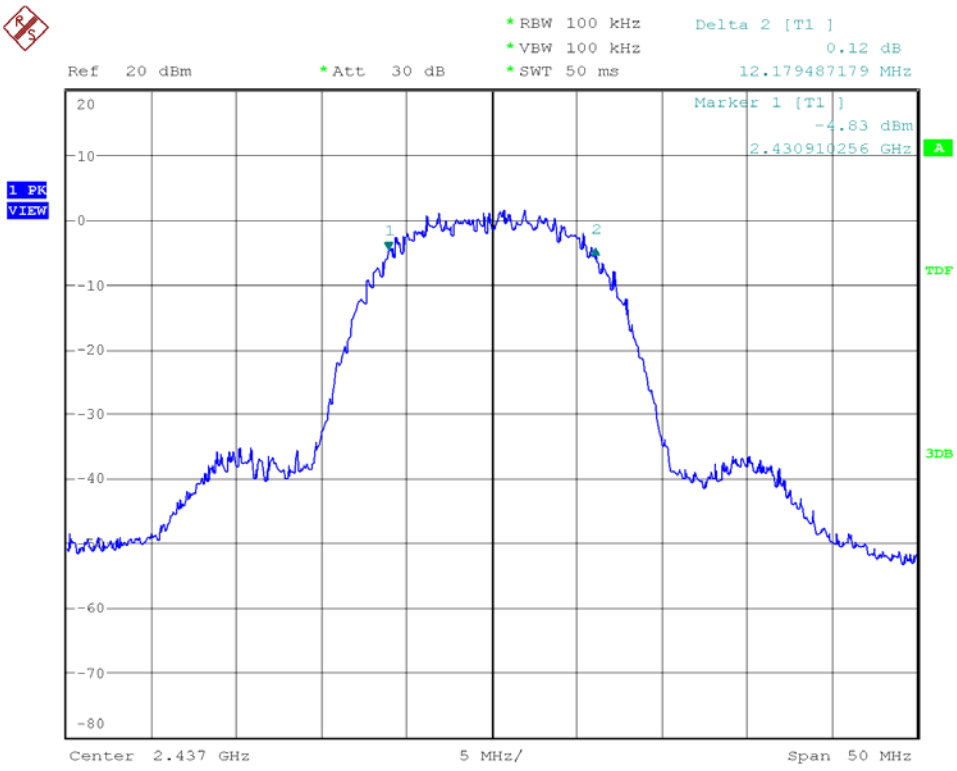
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



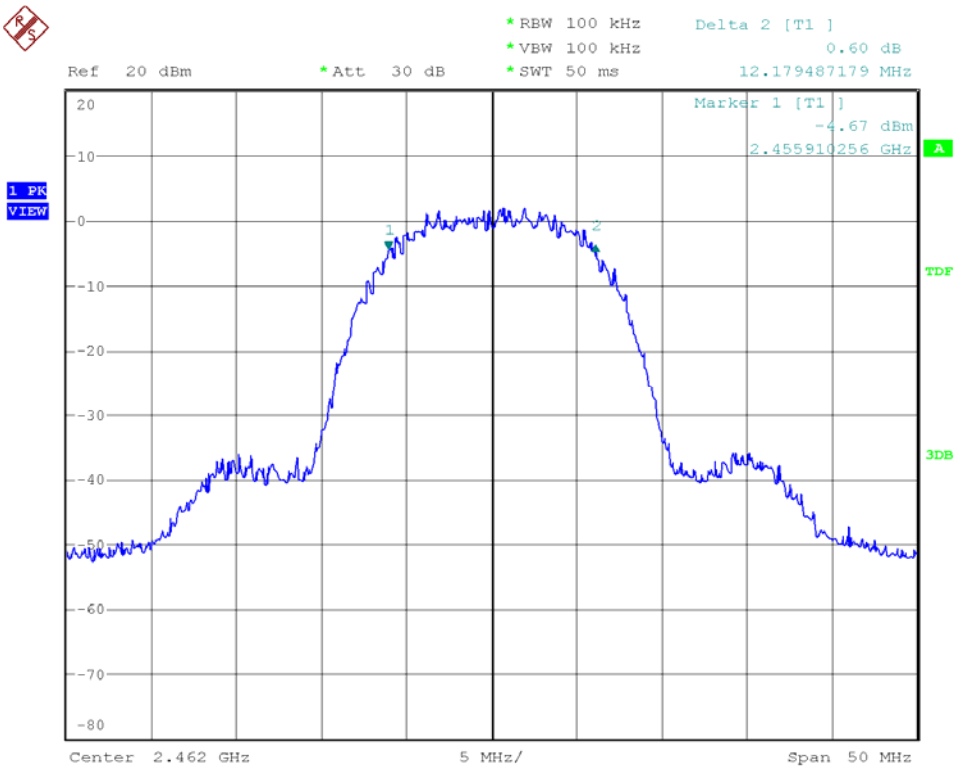
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01



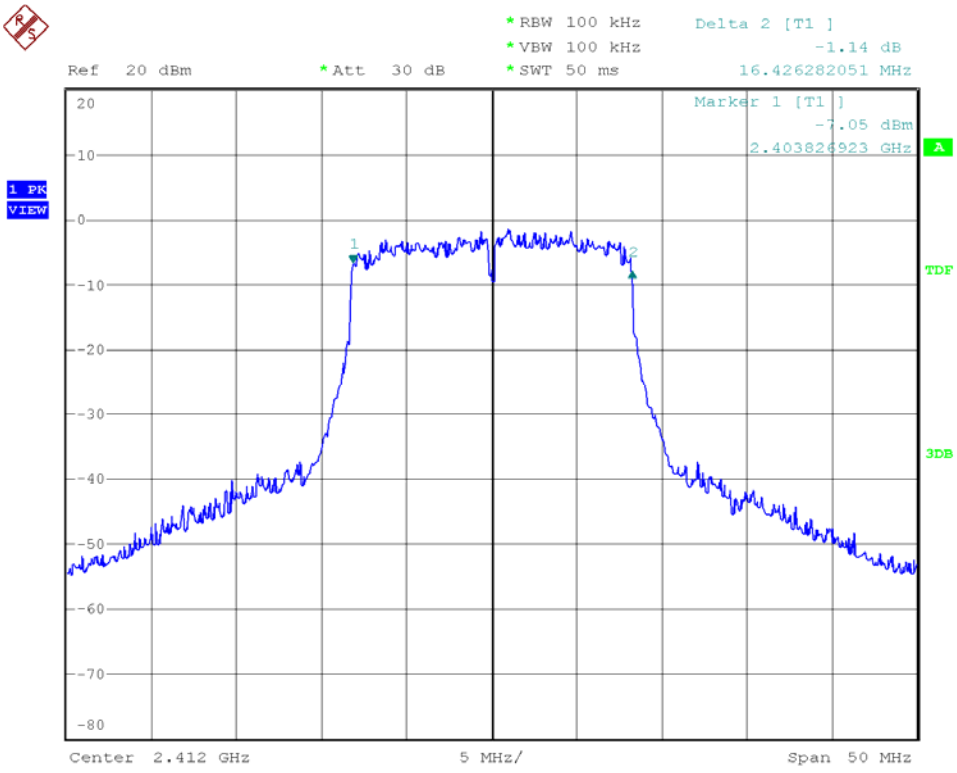
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 06



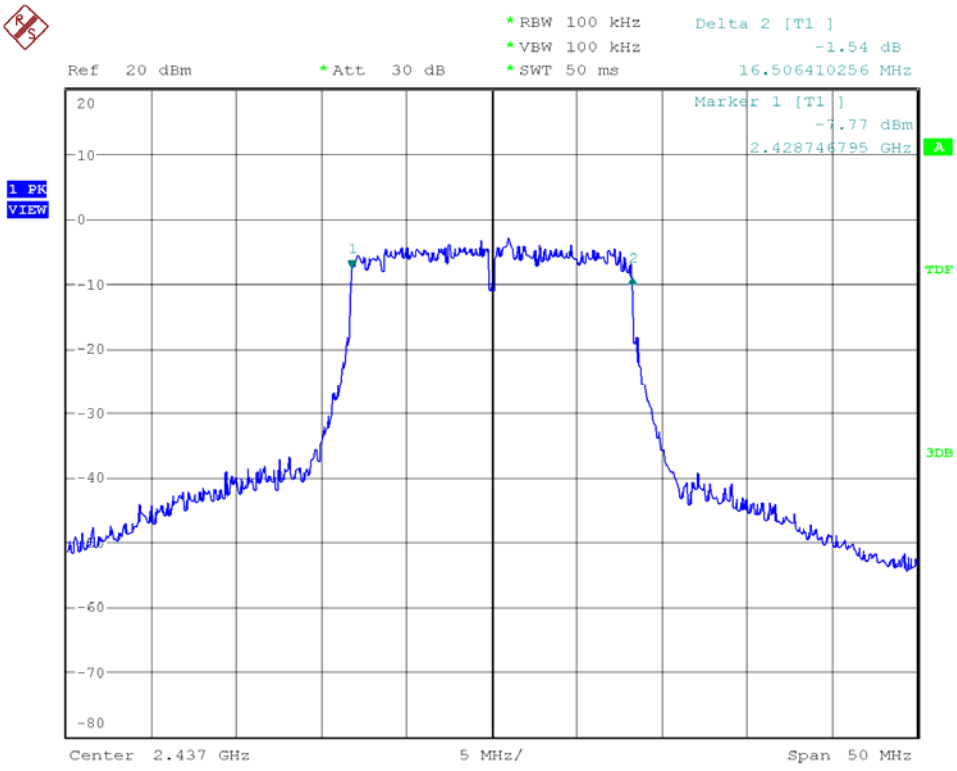
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11



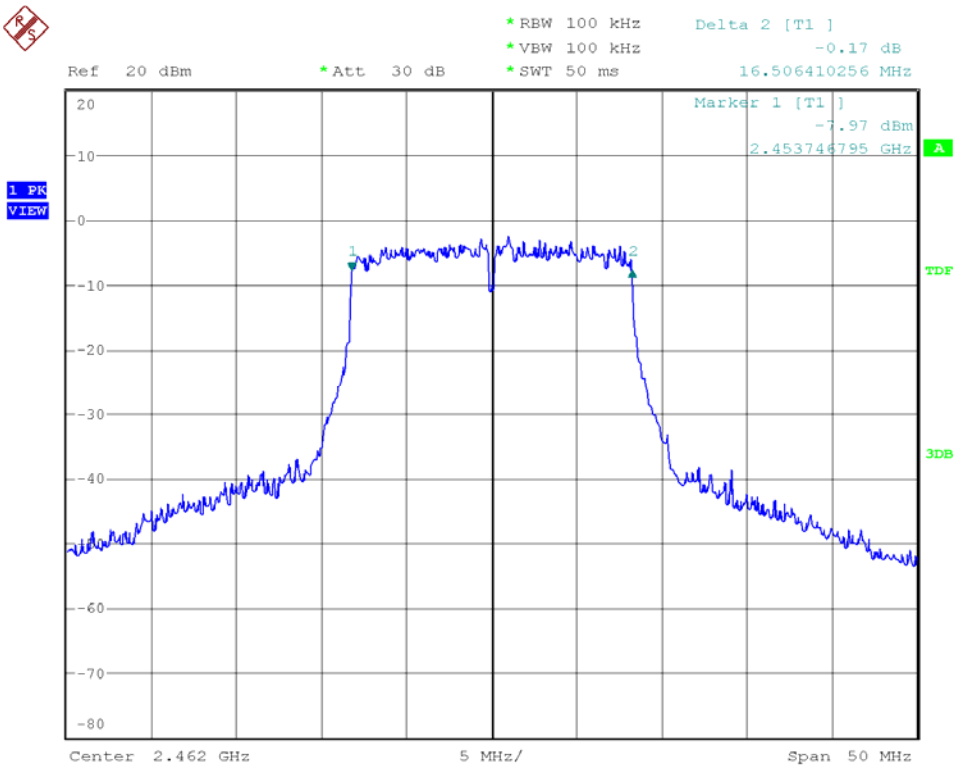
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



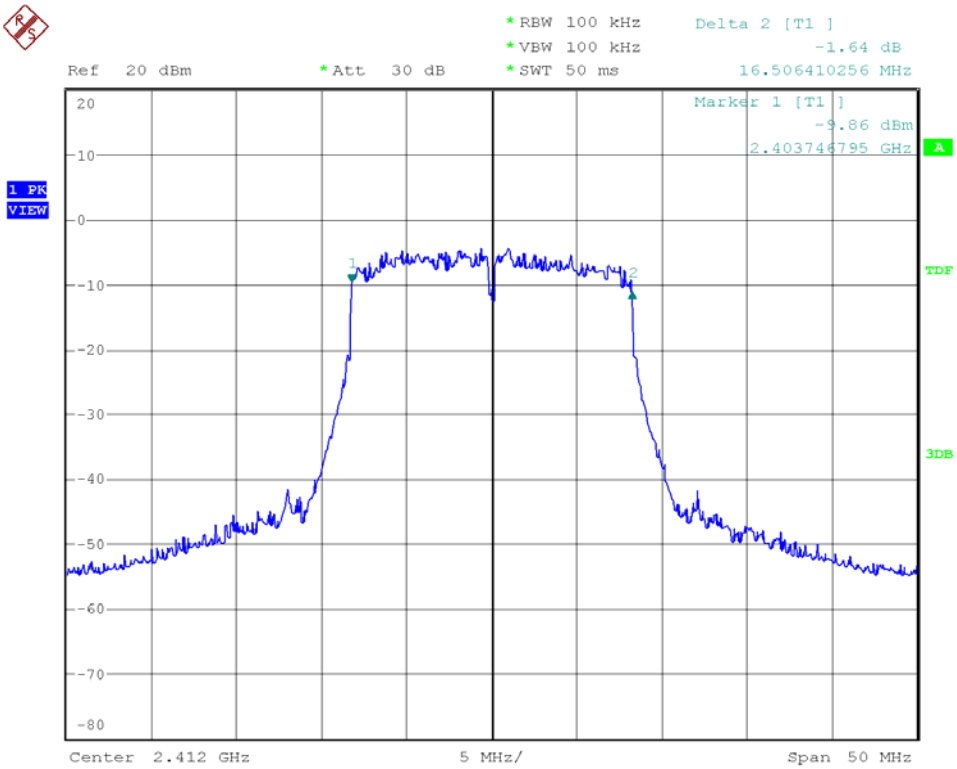
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 06



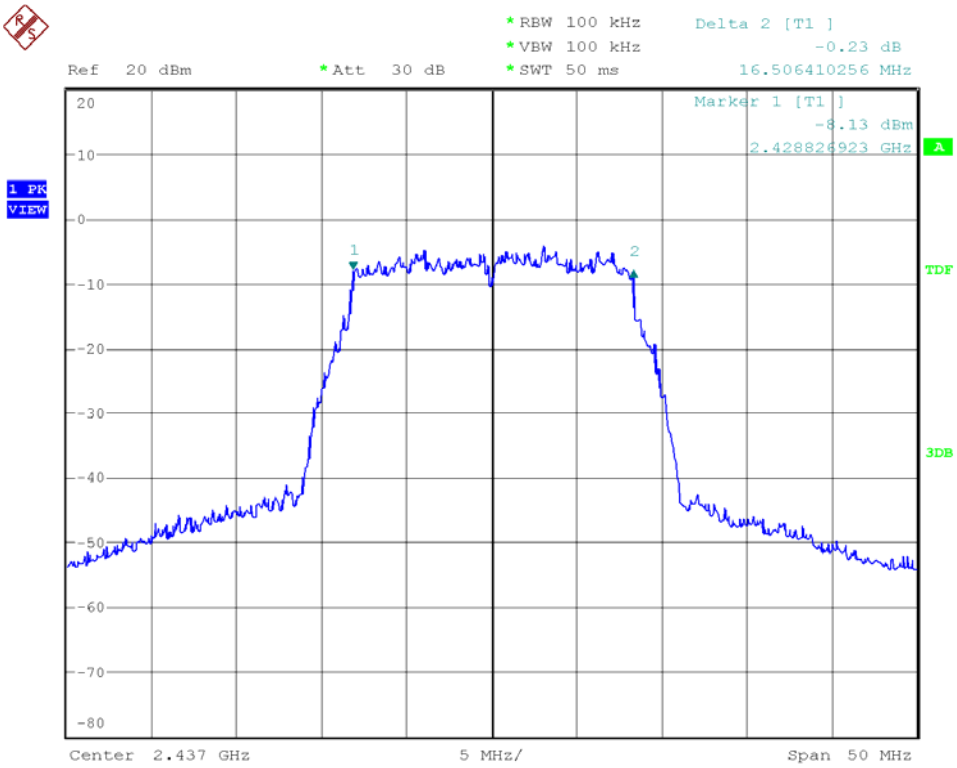
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



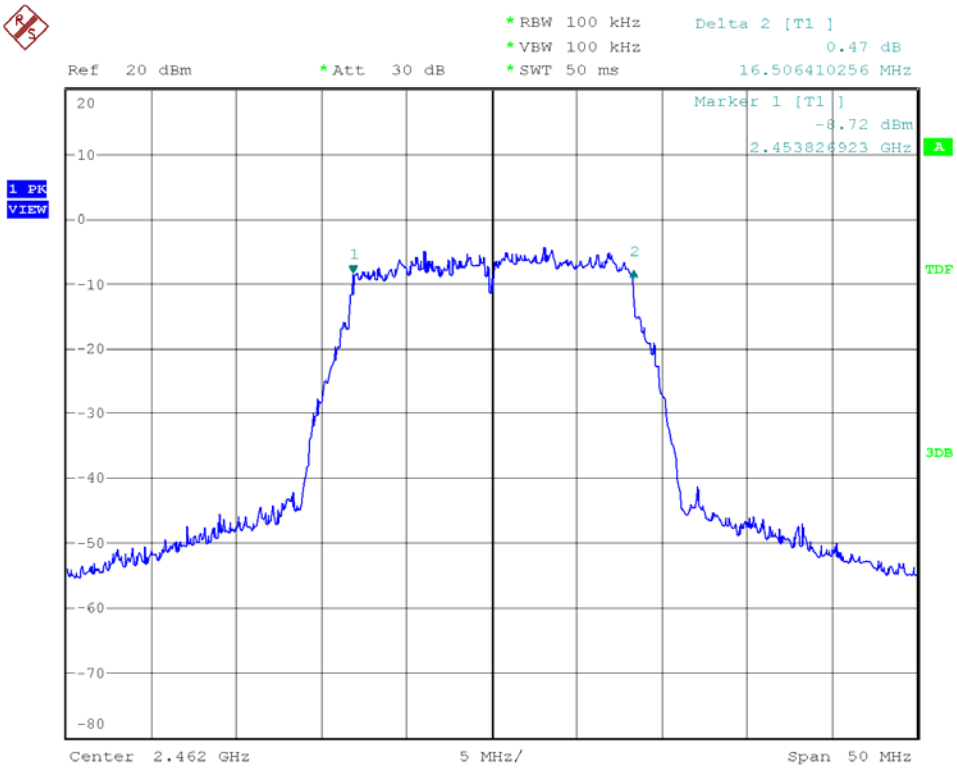
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 01



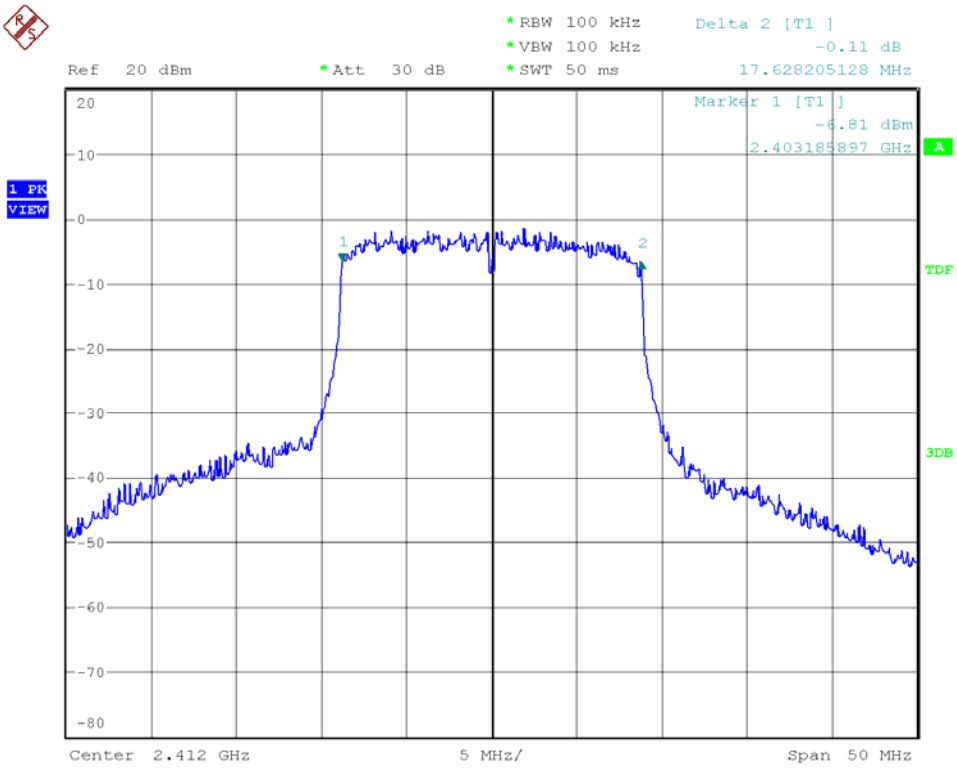
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 06



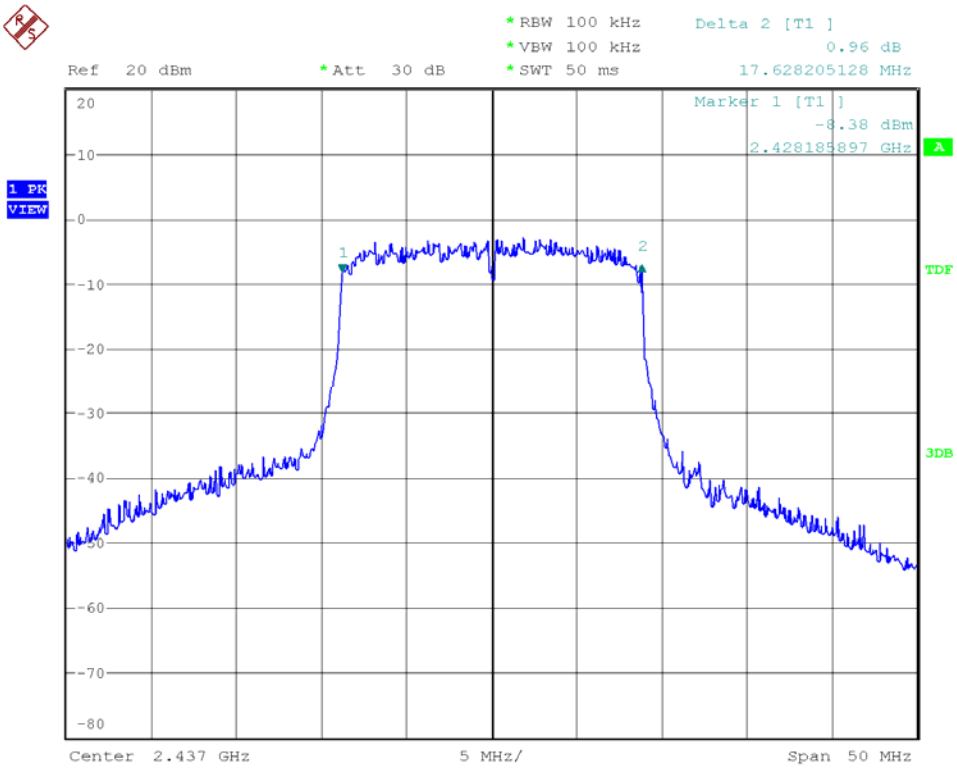
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 11



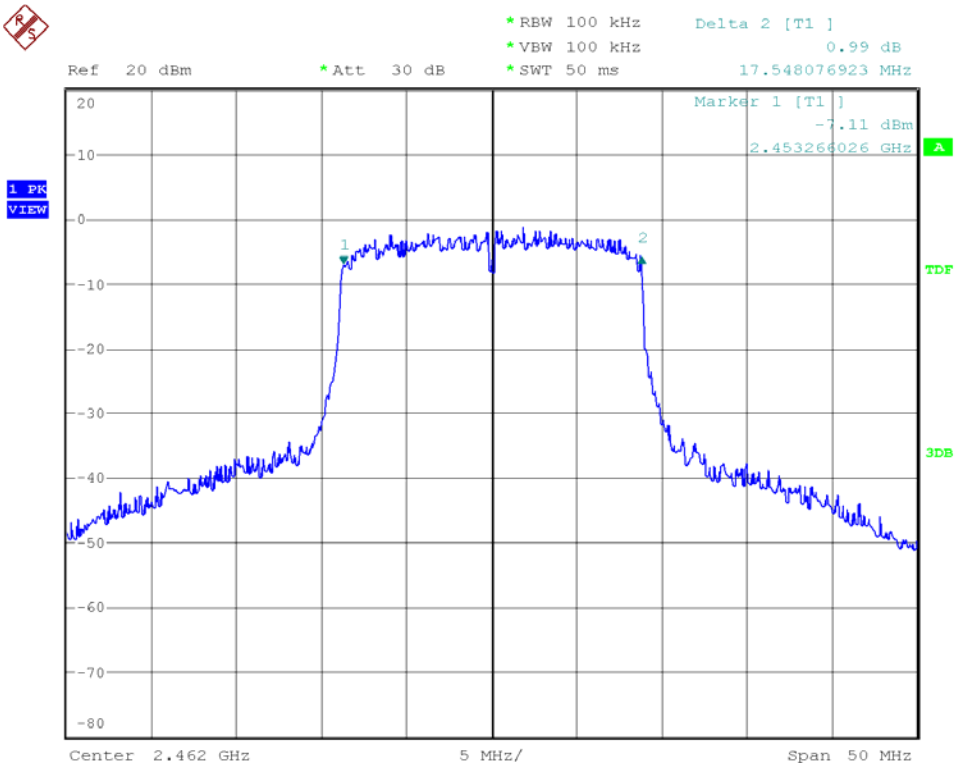
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 01



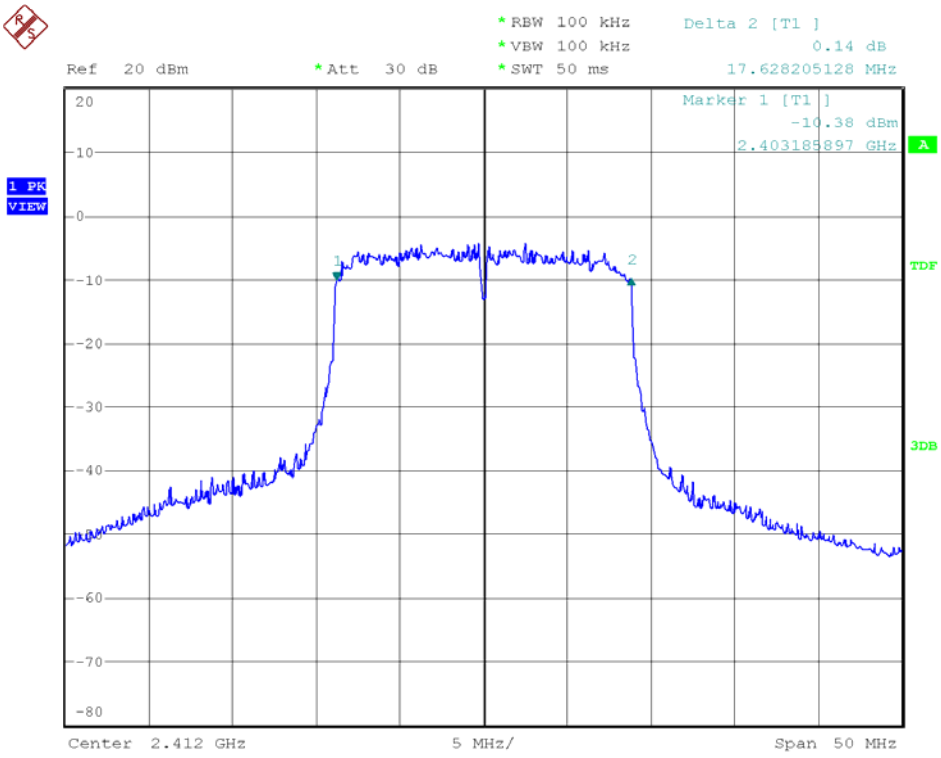
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 06



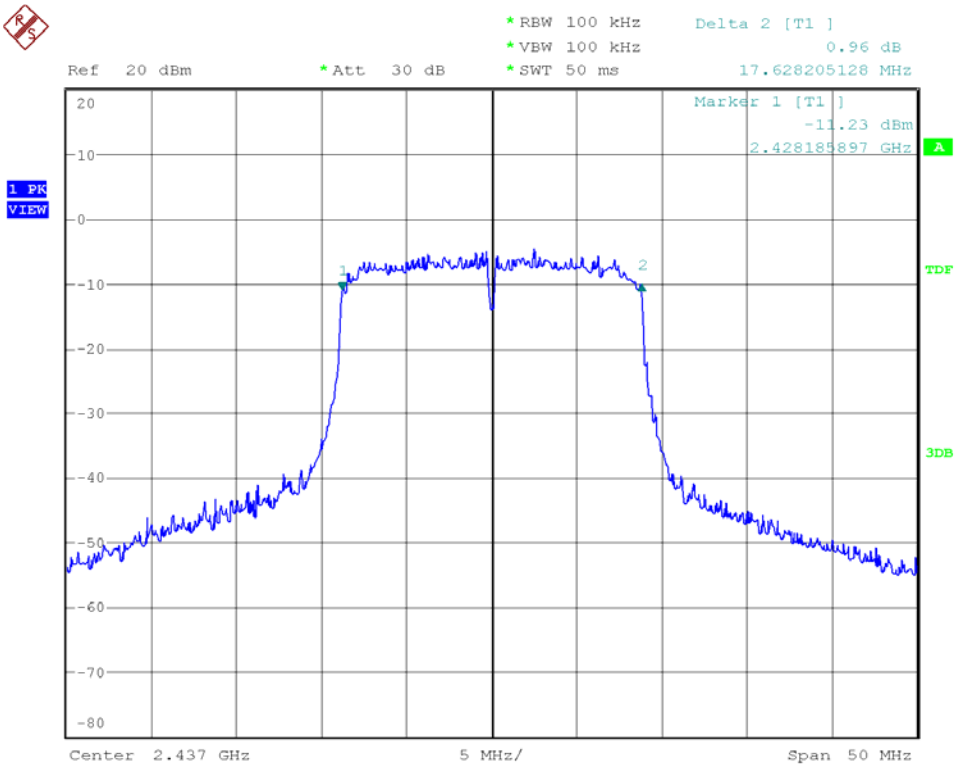
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 11



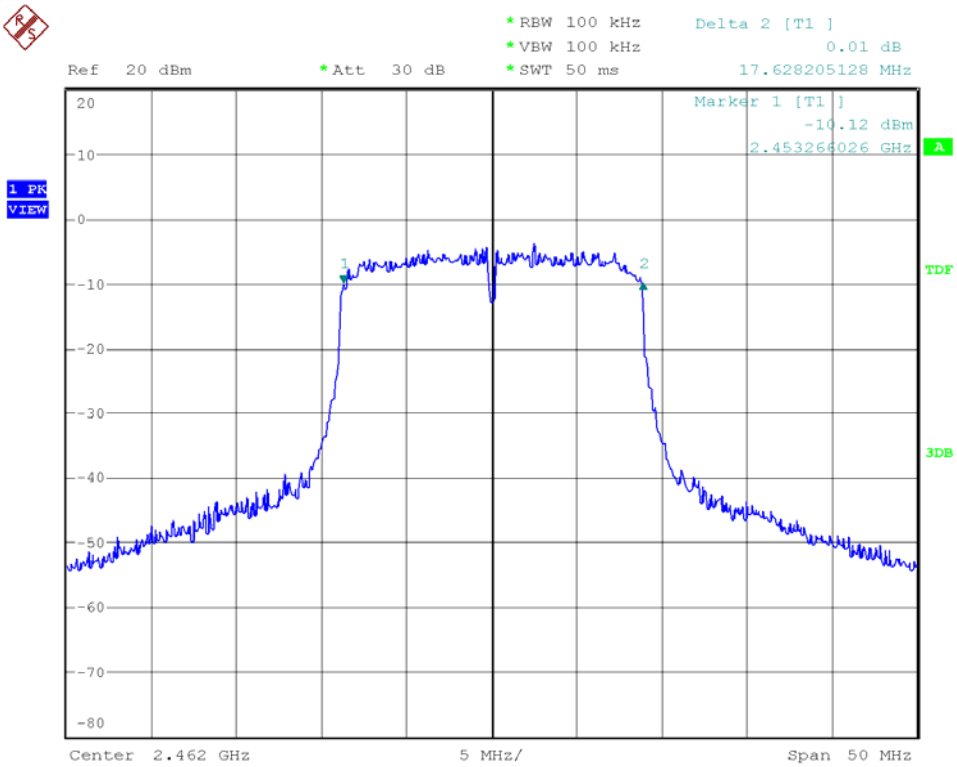
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 01



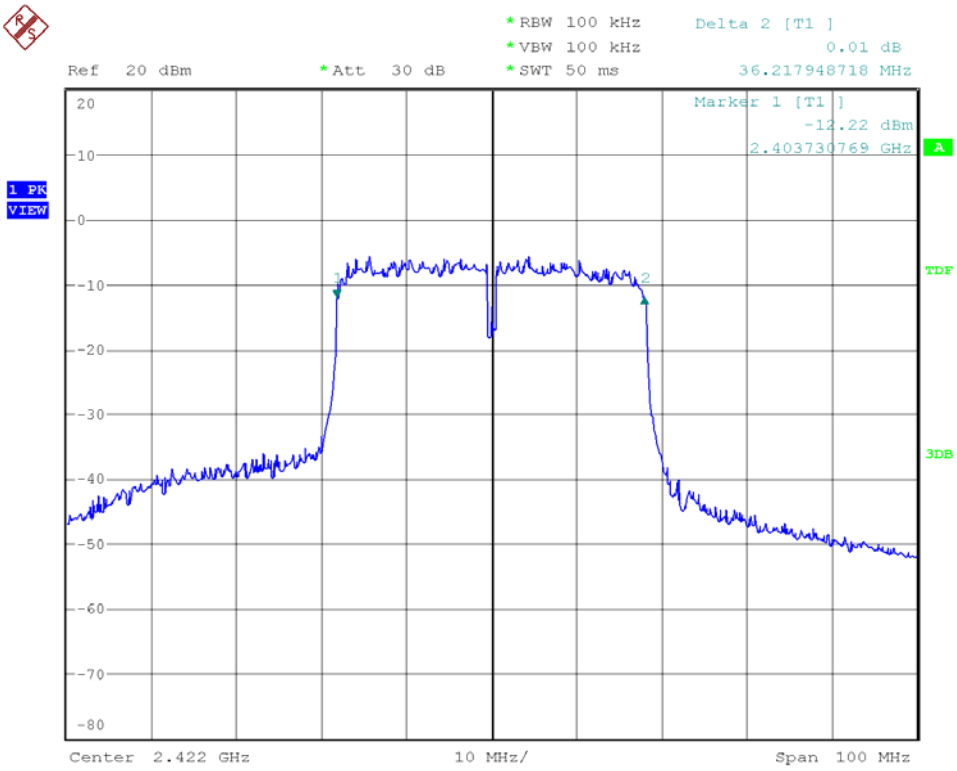
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 06



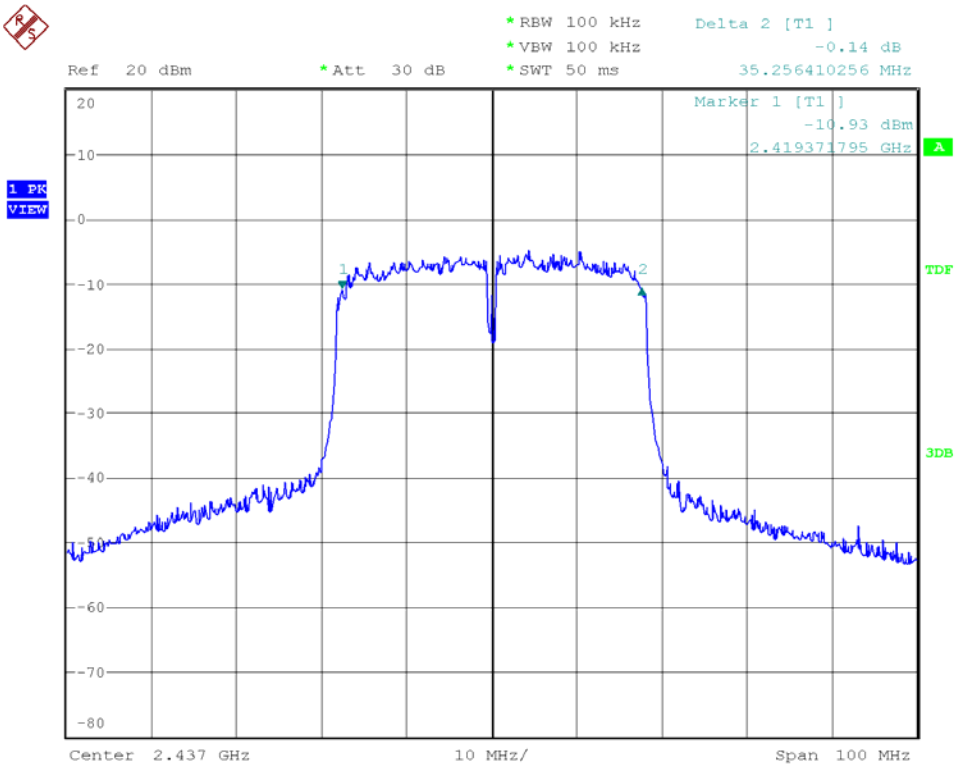
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 11



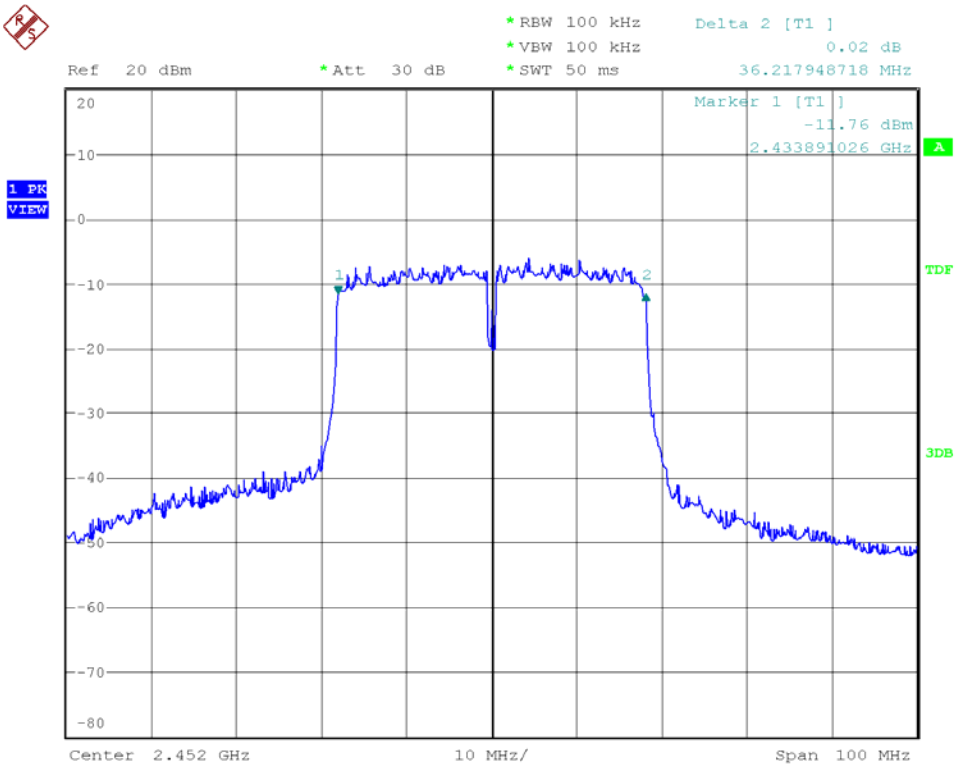
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 03



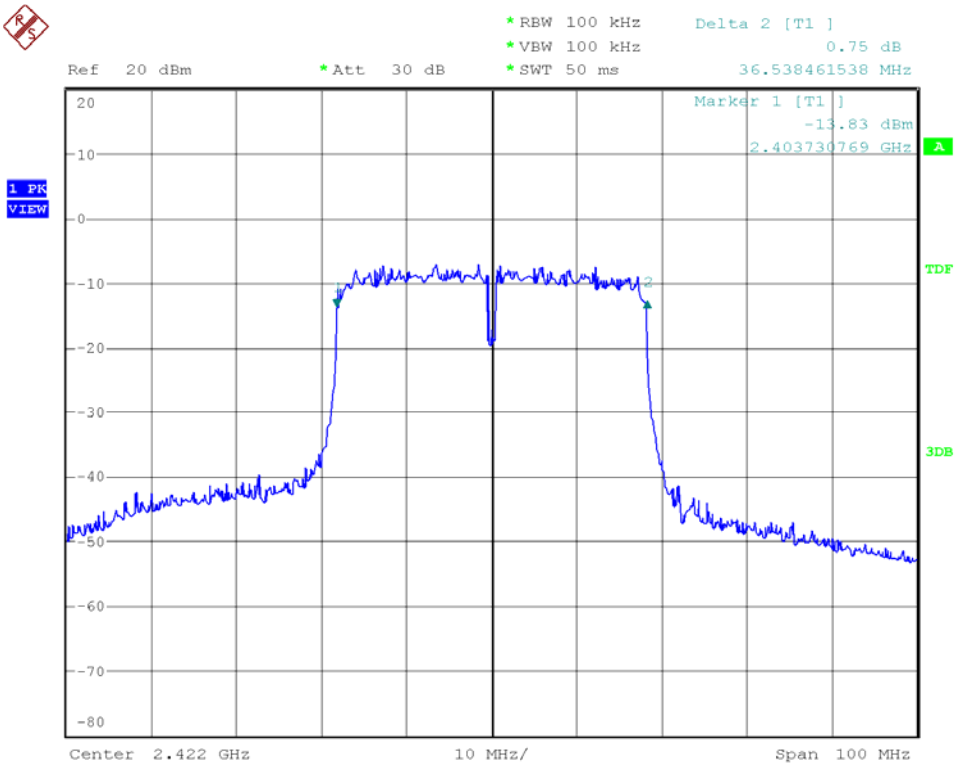
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 06



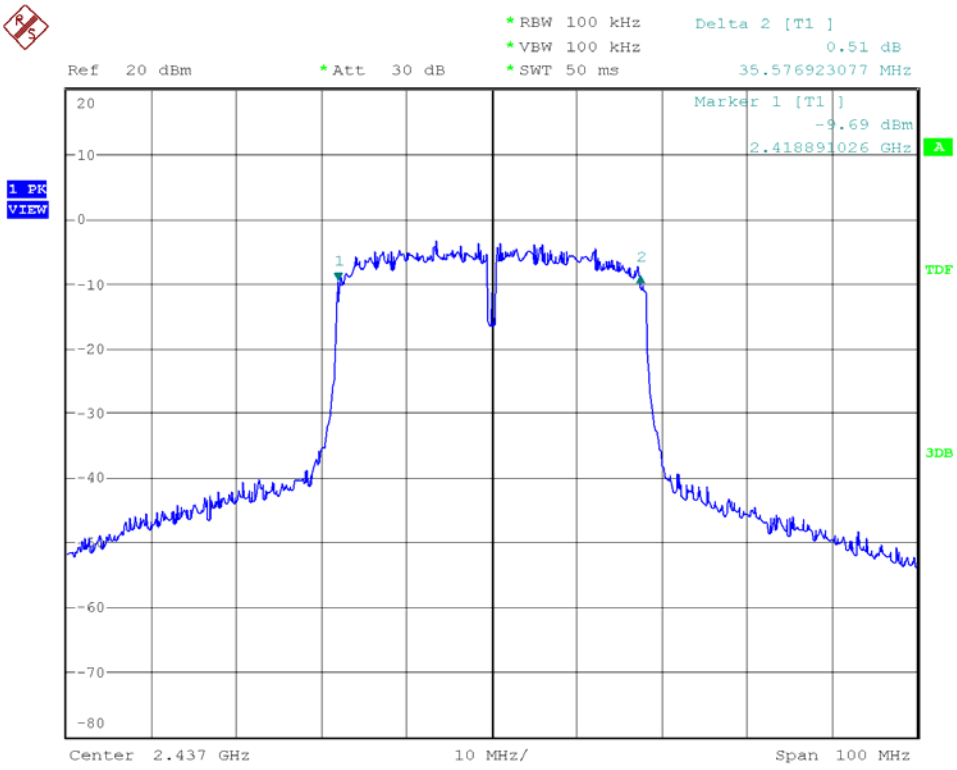
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 09



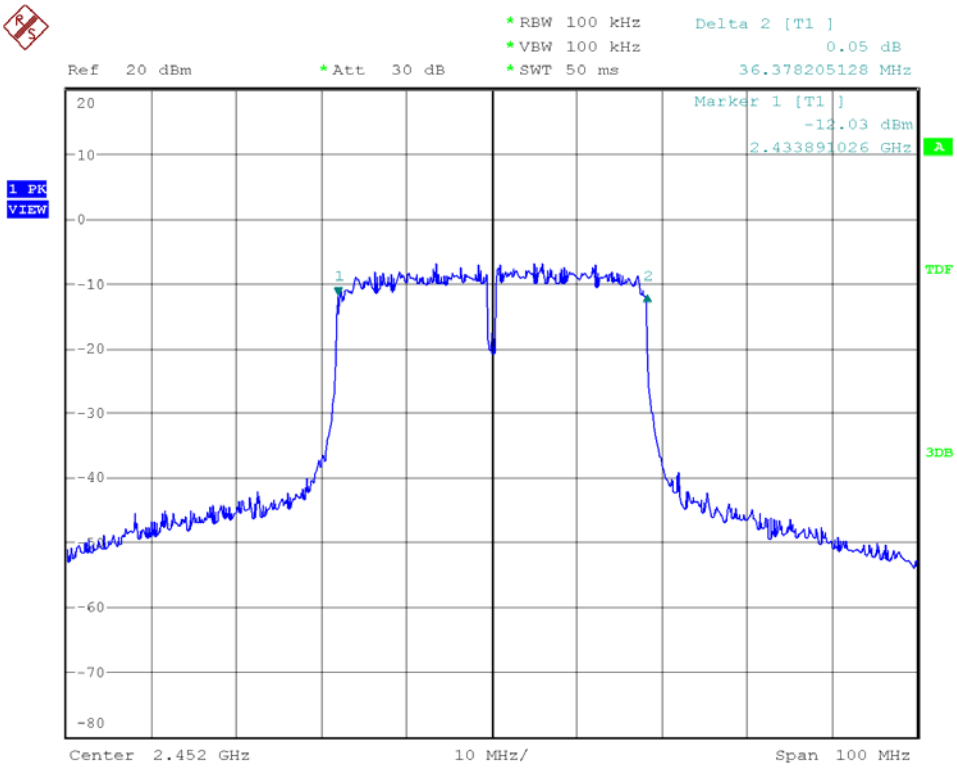
Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 03



Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 06



Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 09



7. Maximum Peak Output Power

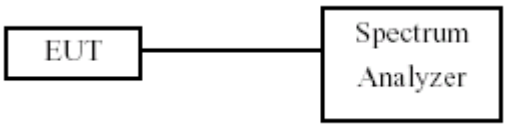
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 Test Procedures

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

7.3 Test Setup Layout



7.4 Measurement Equipment

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

7.5 Test Result and Data

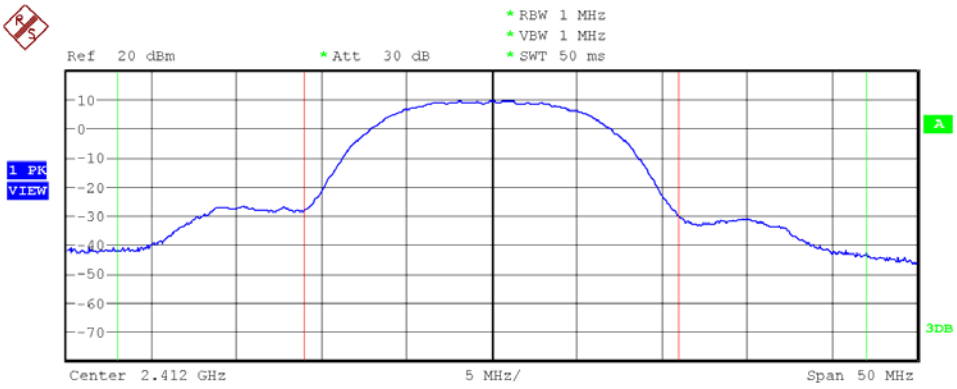
Test Date: Feb. 16, 2009 Temperature: 26℃

Atmospheric pressure: 1027 hPa Humidity: 65%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)	
			Ant1	Ant2	Ant1	Ant2
802.11b (11Mbps)	01	2412	18.11	17.84	64.7	60.8
	06	2437	18.07	17.95	64.1	62.4
	11	2462	17.95	18.12	62.4	64.9
802.11g (54Mbps)	01	2412	16.20	15.93	41.7	39.2
	06	2437	16.13	16.05	41.0	40.3
	11	2462	15.81	16.25	38.1	42.2

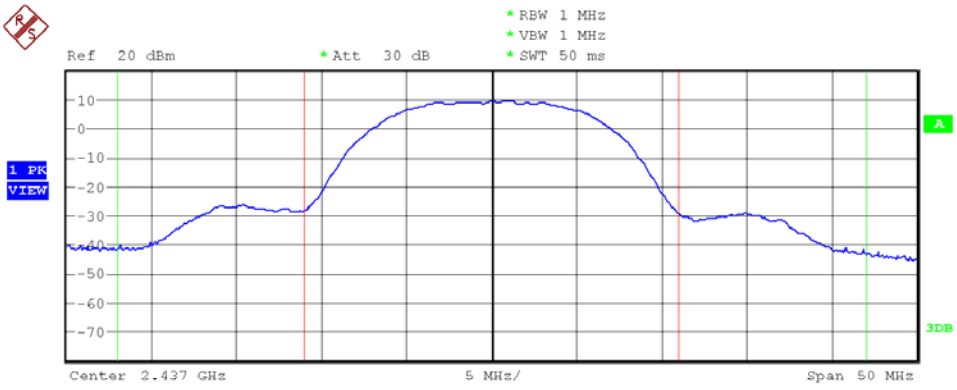
Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			Ant1	Ant2	Ant1+2	Ant1+2
802.11n HT20 (130Mbps)	01	2412	13.06	13.06	16.07	40.46
	06	2437	13.03	13.01	16.03	40.09
	11	2462	13.00	13.19	16.11	40.80
802.11n HT40 (270Mbps)	03	2422	13.24	13.20	16.23	41.98
	06	2437	13.20	13.31	16.27	42.32
	09	2452	13.08	13.22	16.16	41.31

Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



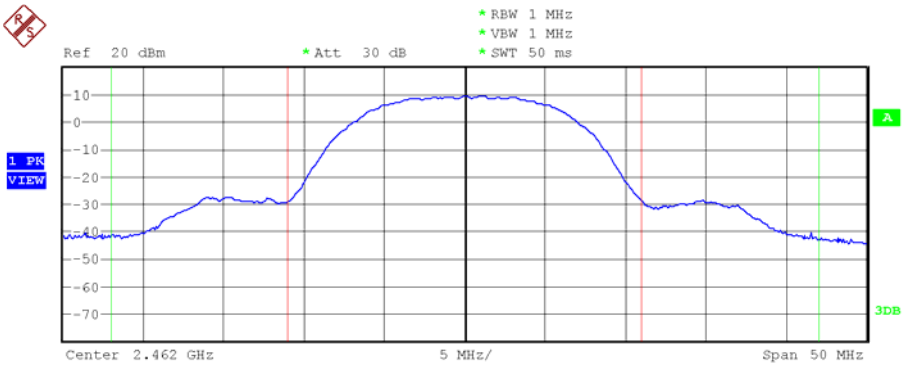
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	18.11 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-38.69 dB
Spacing	16.5 MHz	Upper	-42.85 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 06



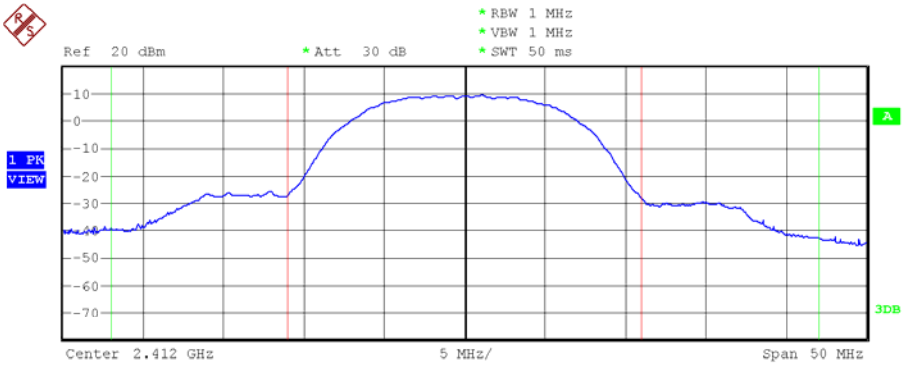
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	18.07 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-38.41 dB
Spacing	16.5 MHz	Upper	-41.07 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



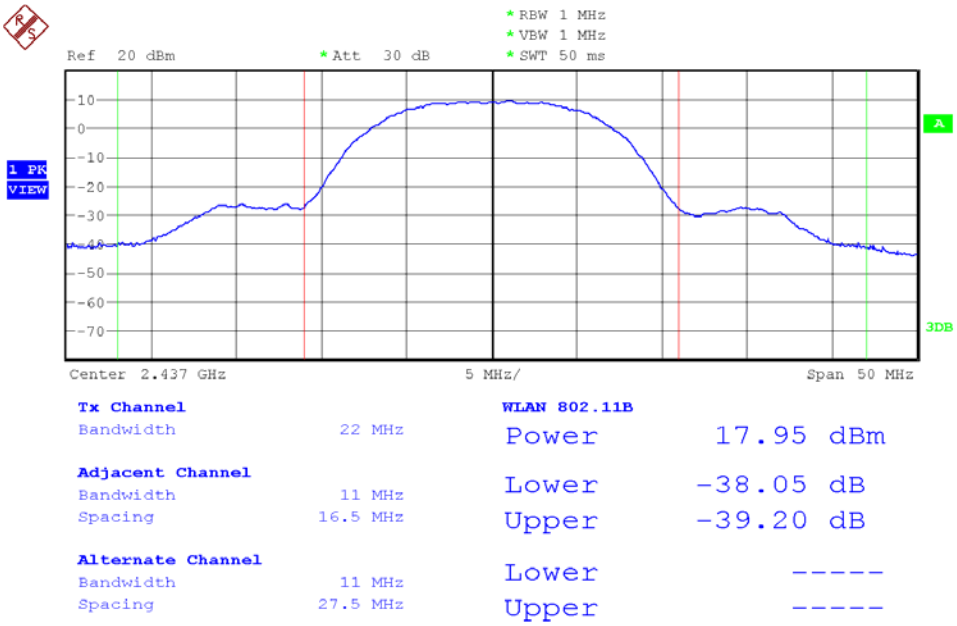
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	17.95 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-39.41 dB
Spacing	16.5 MHz	Upper	-40.65 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01

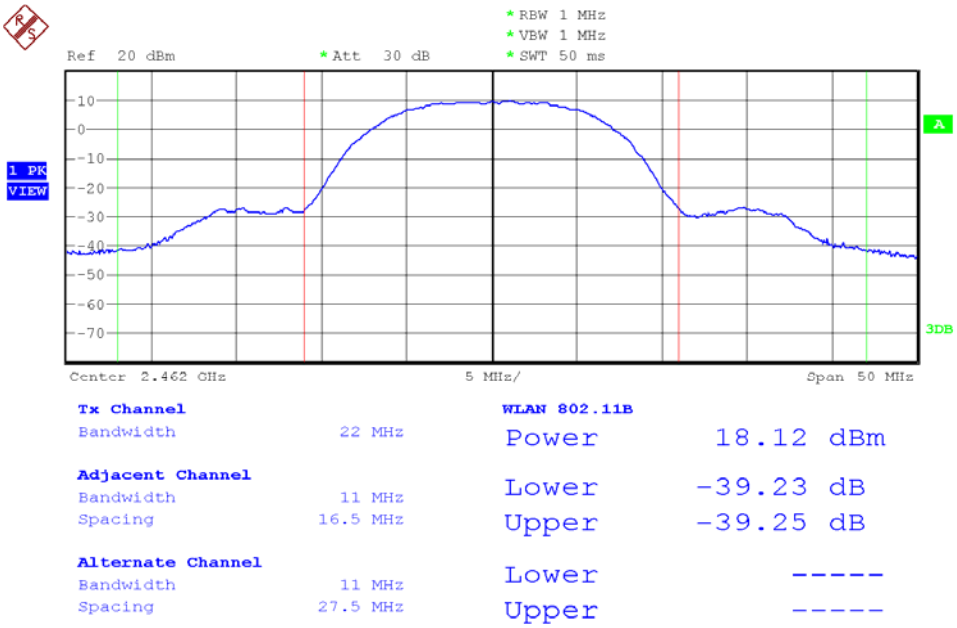


Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	17.84 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-37.80 dB
Spacing	16.5 MHz	Upper	-40.90 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

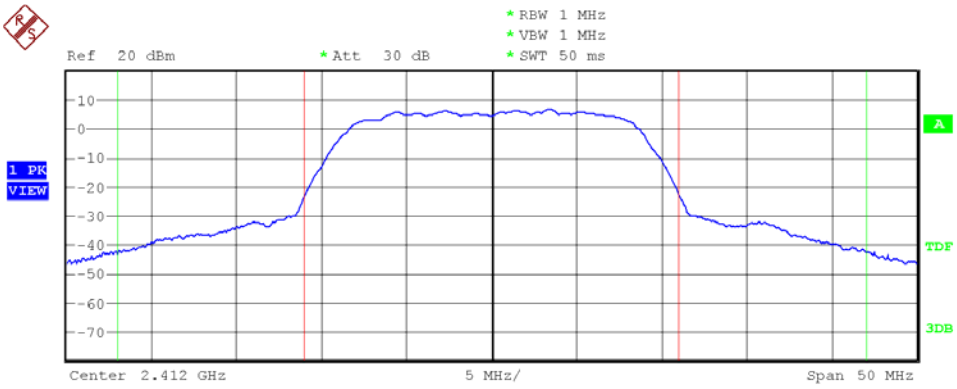
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 06



Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11

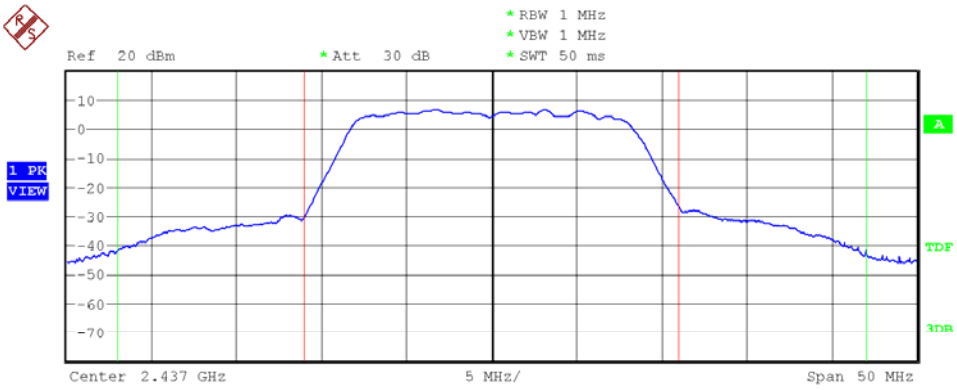


Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



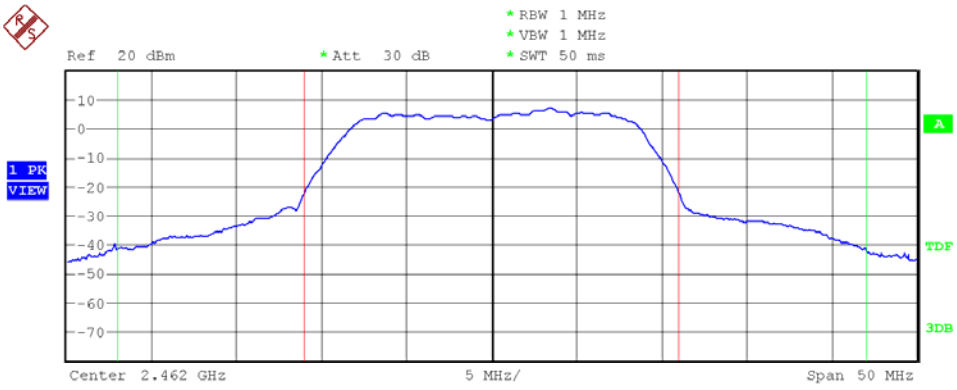
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.13 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-40.46 dB
Spacing	16.5 MHz	Upper	-39.71 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 06



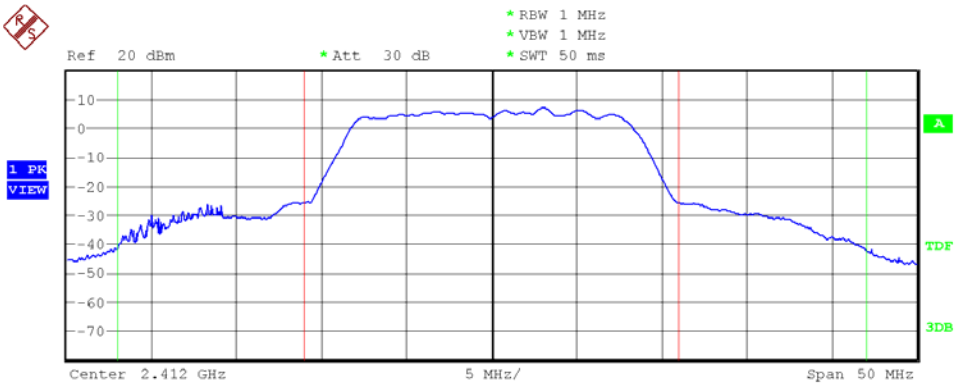
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.20 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-40.49 dB
Spacing	16.5 MHz	Upper	-39.08 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



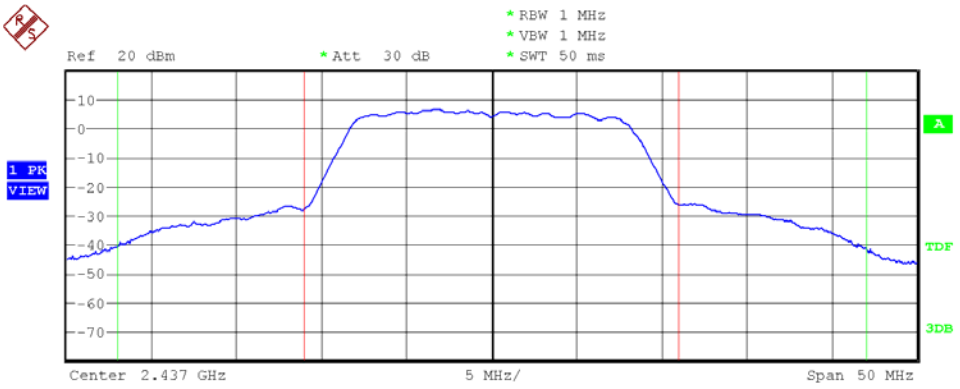
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.81 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-38.65 dB
Spacing	16.5 MHz	Upper	-38.26 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 01



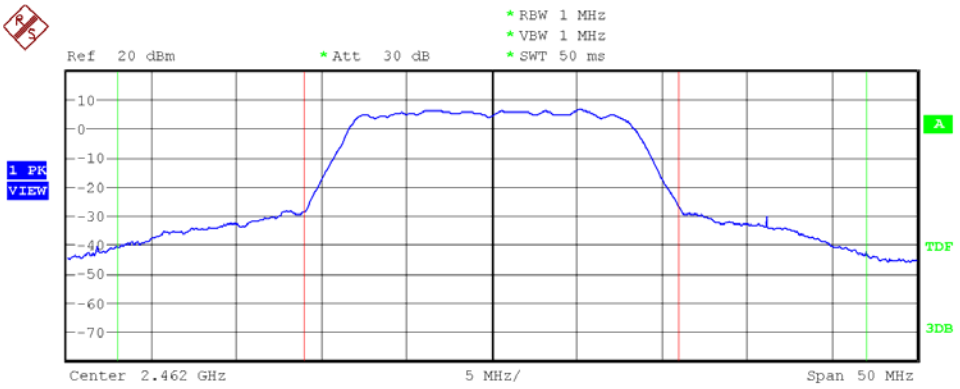
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	15.93 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-36.60 dB
Spacing	16.5 MHz	Upper	-36.86 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 06



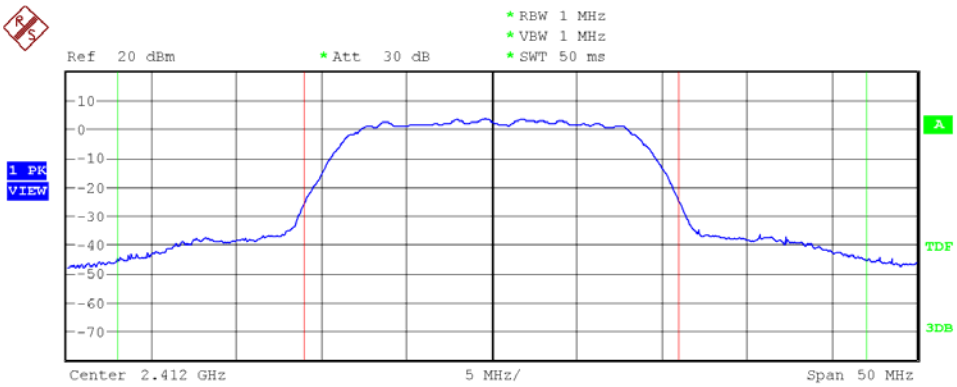
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.05 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-37.88 dB
Spacing	16.5 MHz	Upper	-36.90 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 11



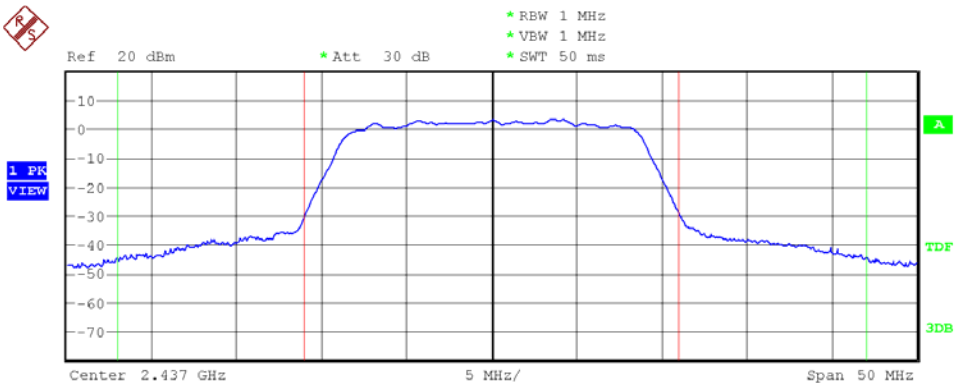
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.25 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-39.84 dB
Spacing	16.5 MHz	Upper	-40.31 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 01



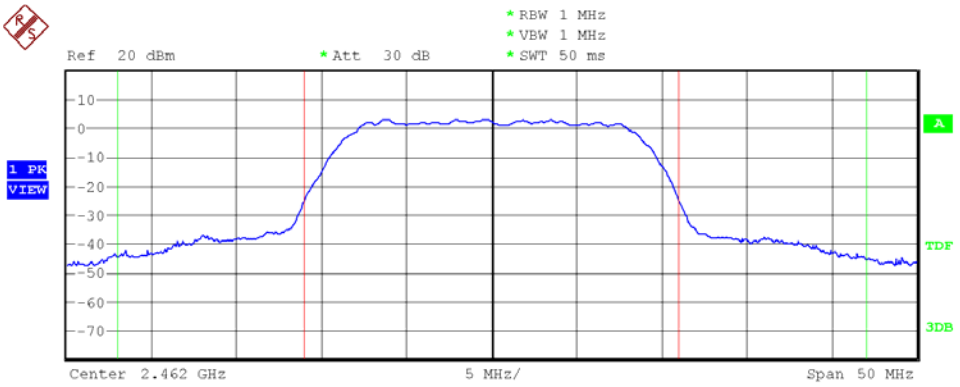
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.06 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-40.80 dB
Spacing	16.5 MHz	Upper	-40.21 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 06



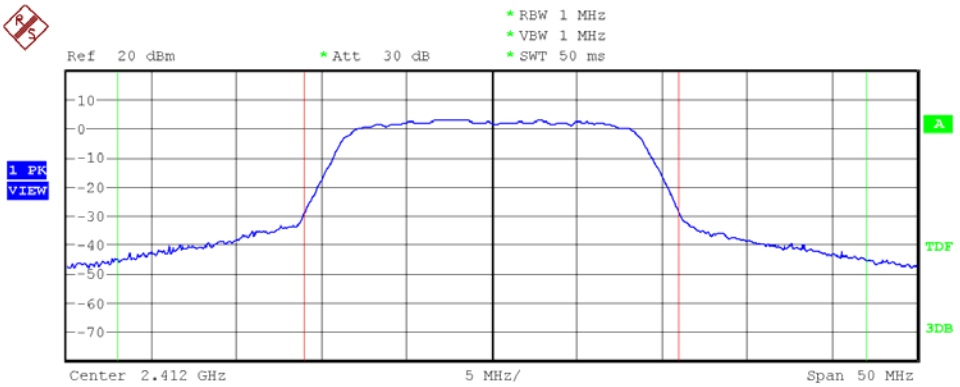
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.03 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-42.36 dB
Spacing	16.5 MHz	Upper	-41.72 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 11



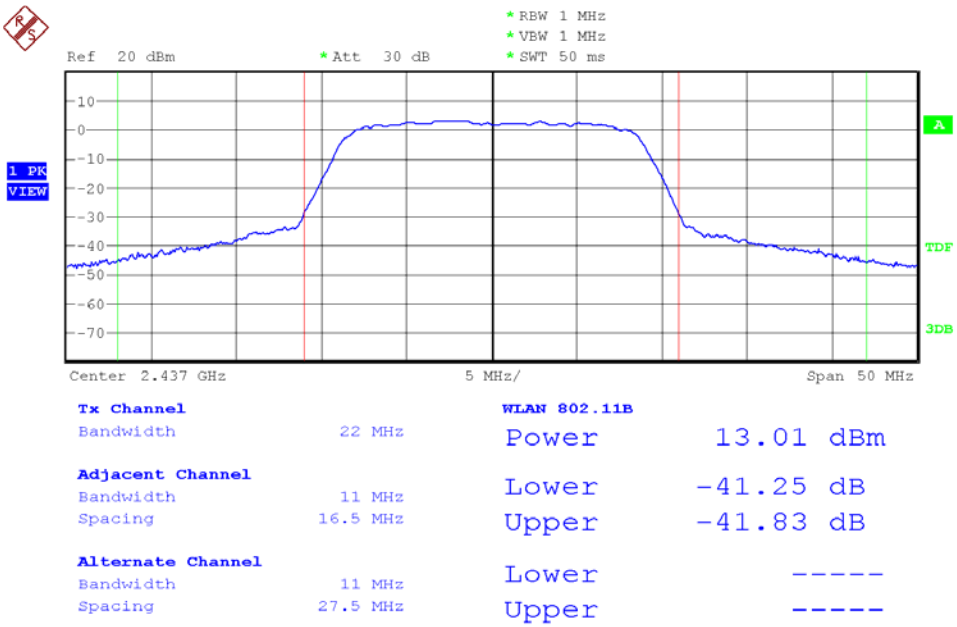
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.00 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-40.41 dB
Spacing	16.5 MHz	Upper	-40.56 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 01

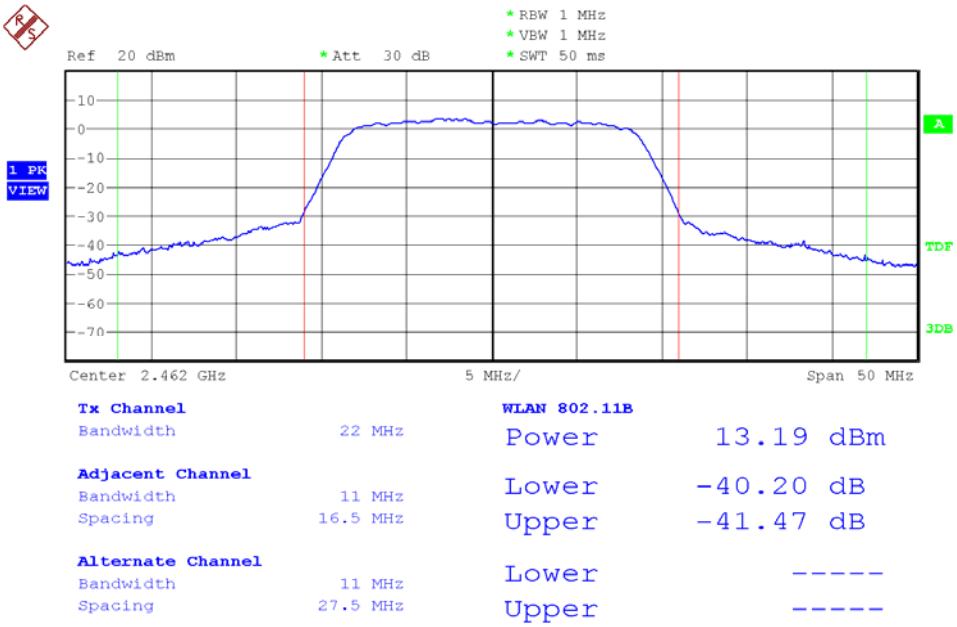


Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.06 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-41.36 dB
Spacing	16.5 MHz	Upper	-41.58 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

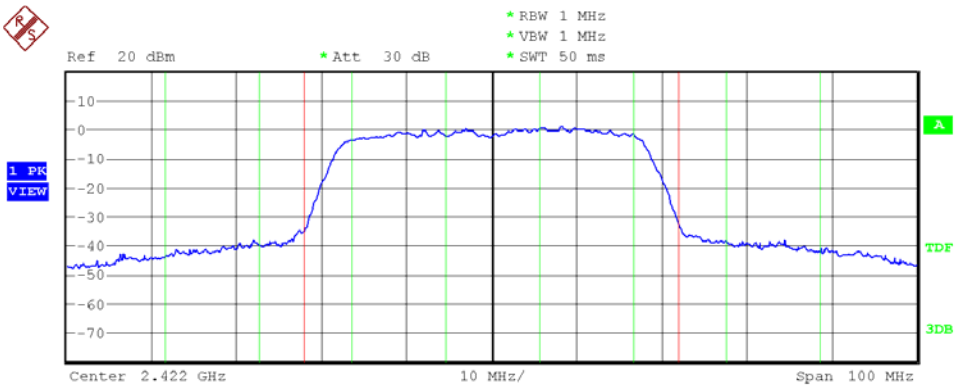
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 06



Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 11

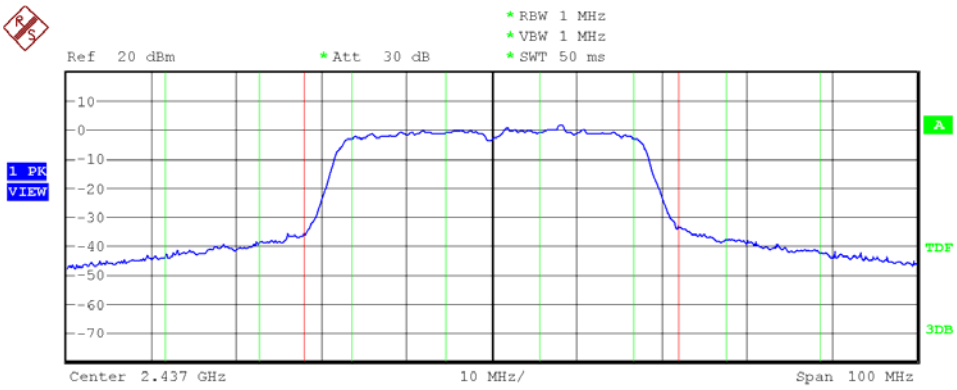


Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 03



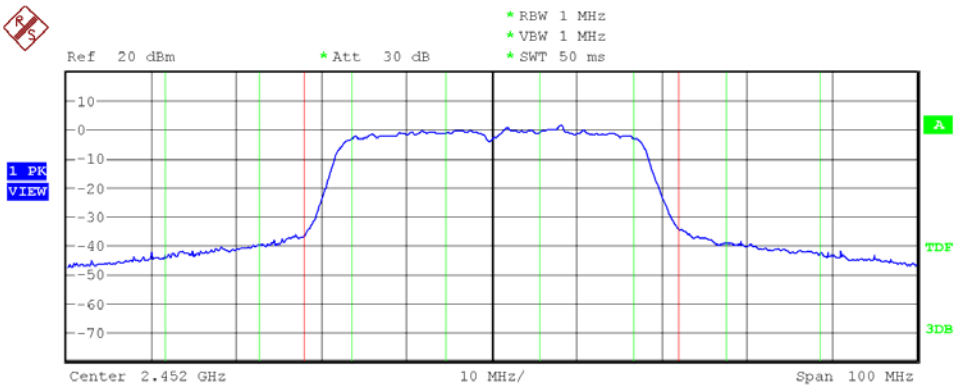
Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	13.24 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.45 dB
Spacing	16.5 MHz	Upper	-4.00 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-15.65 dB
Spacing	27.5 MHz	Upper	-14.24 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 06



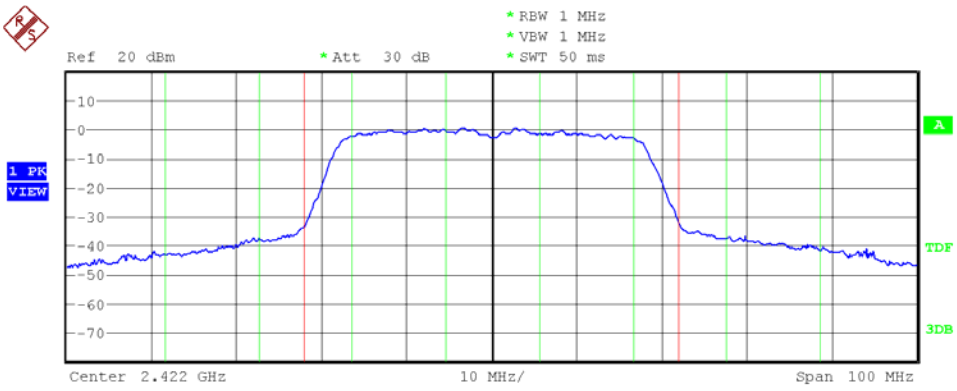
Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	13.20 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.16 dB
Spacing	16.5 MHz	Upper	-4.35 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-15.60 dB
Spacing	27.5 MHz	Upper	-15.26 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 09



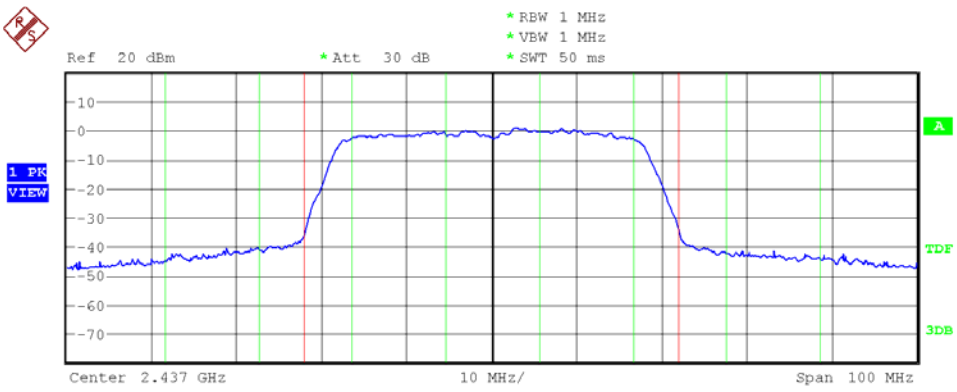
Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	13.08 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.14 dB
Spacing	16.5 MHz	Upper	-4.40 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-15.68 dB
Spacing	27.5 MHz	Upper	-15.20 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 03



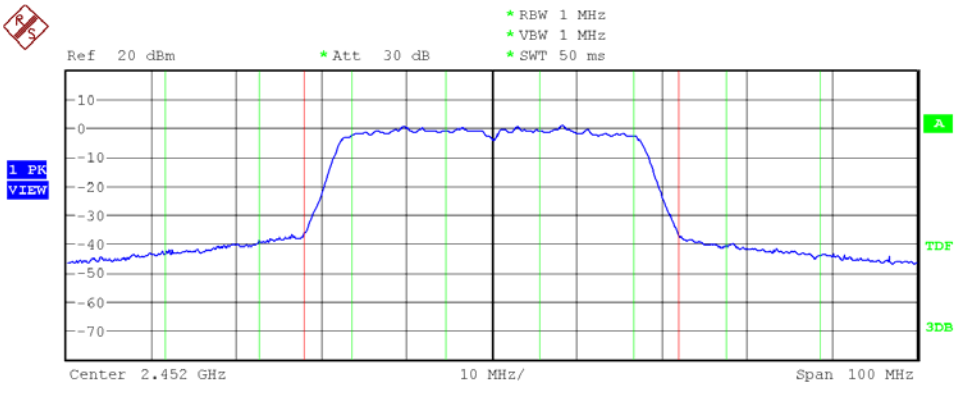
Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	13.20 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.30 dB
Spacing	16.5 MHz	Upper	-5.25 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.39 dB
Spacing	27.5 MHz	Upper	-15.07 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 06



Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	13.31 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.04 dB
Spacing	16.5 MHz	Upper	-4.52 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.59 dB
Spacing	27.5 MHz	Upper	-15.11 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 09



Tx Channel		**WLAN 802.11B**	
Bandwidth	44 MHz	Power	13.22 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-4.55 dB
Spacing	16.5 MHz	Upper	-4.86 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.87 dB
Spacing	27.5 MHz	Upper	-15.39 dB

8. Power Spectral Density

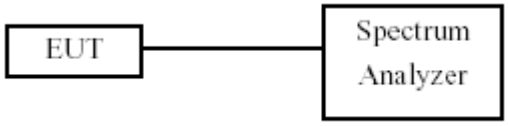
8.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

8.2 Test Procedures

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

8.3 Test Setup Layout



8.4 Measurement Equipment

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

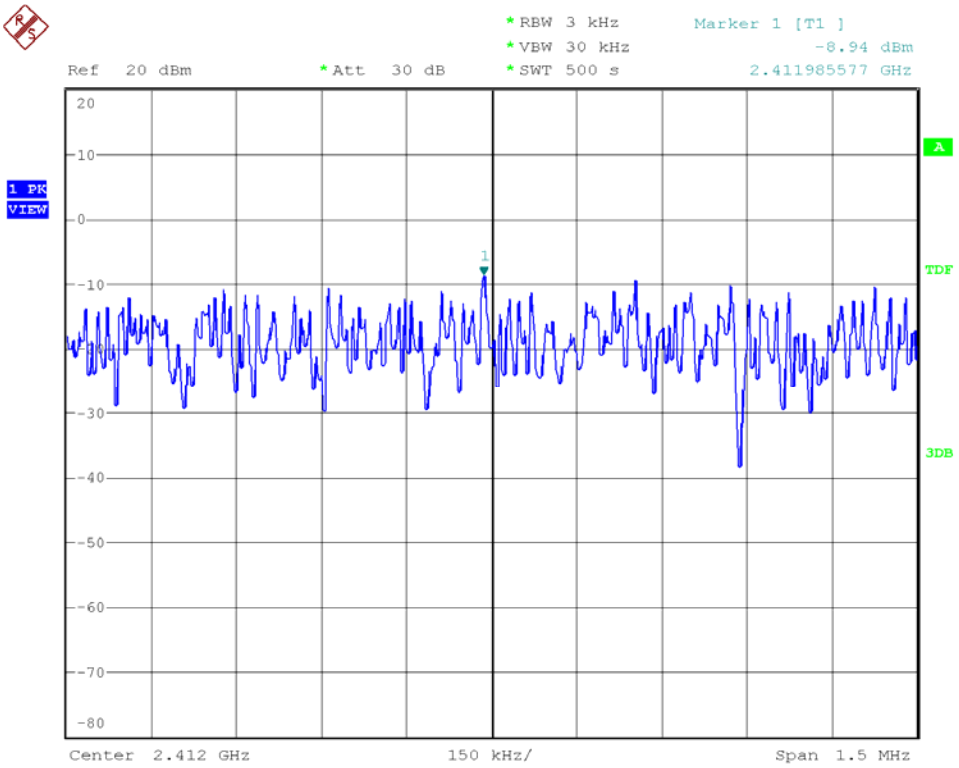
8.5 Test Result and Data

Test Date: Feb. 17, 2009 Temperature: 23℃

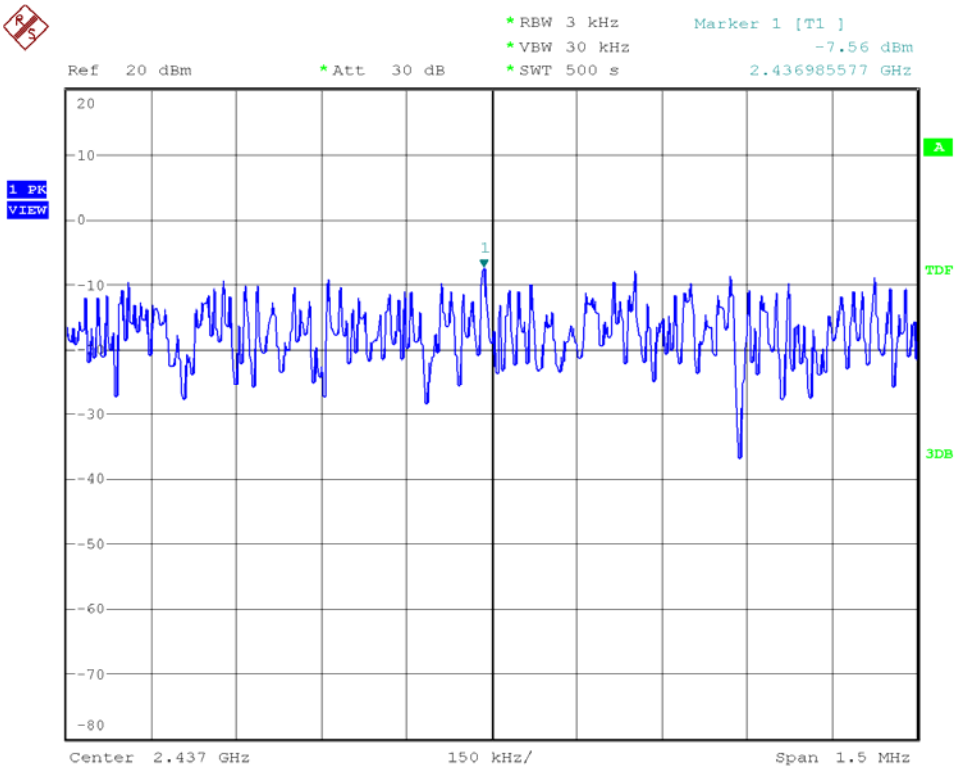
Atmospheric pressure: 1020 hPa Humidity: 67%

Modulation Standard	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		
			Ant1	Ant2	
802.11b (11Mbps)	01	2412	-8.94	-9.94	
	06	2437	-7.56	-8.76	
	11	2462	-6.54	-9.55	
802.11g (54Mbps)	01	2412	-13.24	-15.15	
	06	2437	-15.10	-15.87	
	11	2462	-12.88	-16.56	
			Ant1	Ant2	Ant1+2
802.11n HT20 (130Mbps)	01	2412	-13.05	-14.18	-10.57
	06	2437	-12.01	-13.66	-9.75
	11	2462	-11.08	-14.61	-9.49
802.11n HT40 (270Mbps)	03	2422	-13.14	-14.56	-10.78
	06	2437	-12.01	-14.89	-10.21
	09	2452	-12.54	-15.18	-10.65

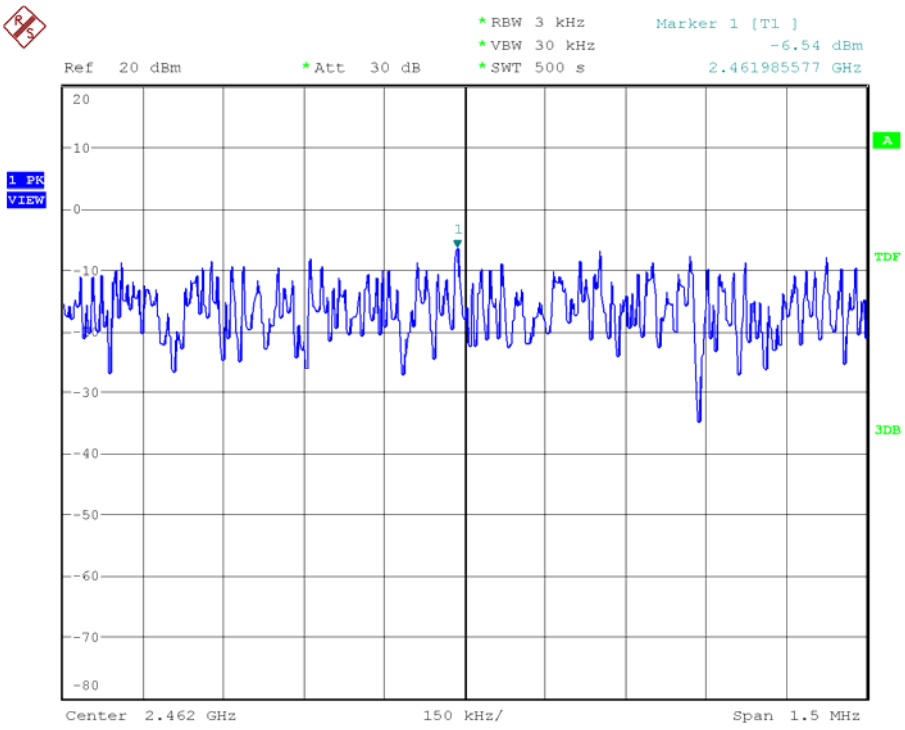
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



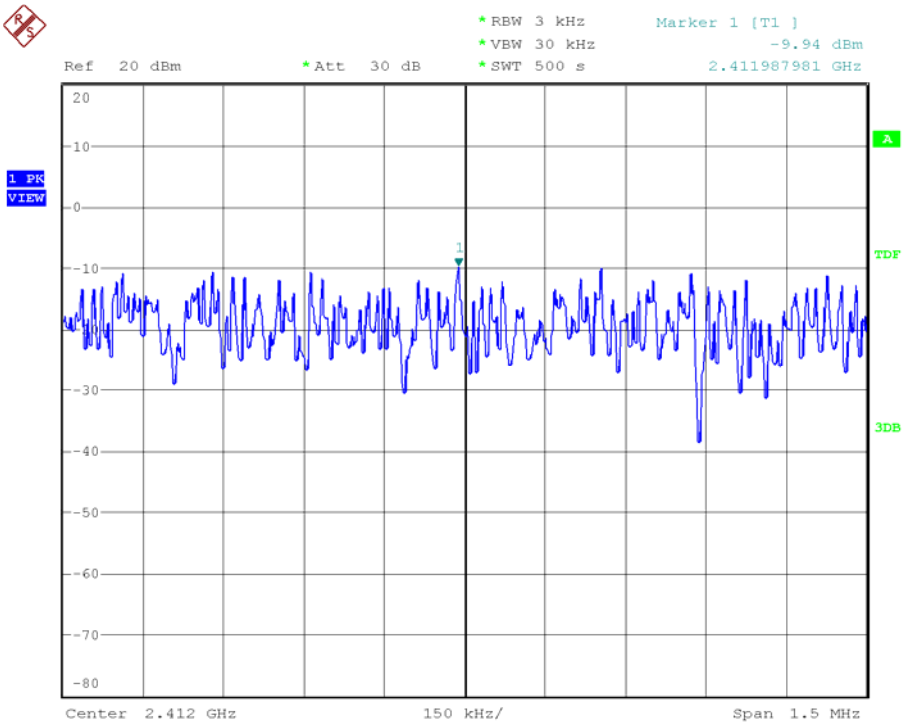
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 06



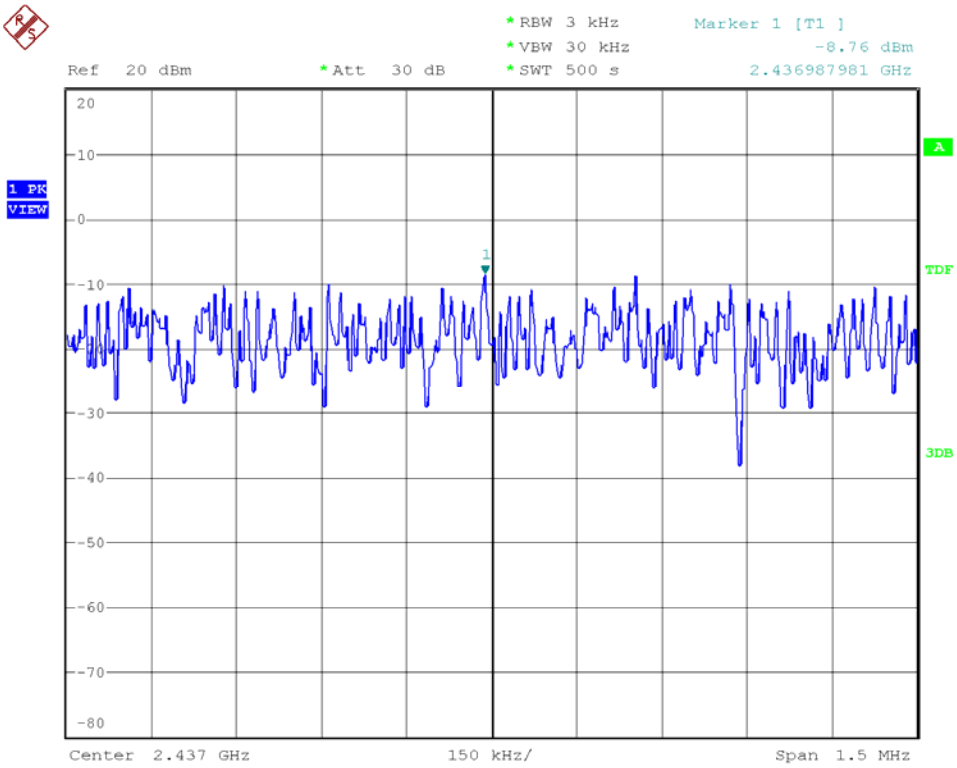
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



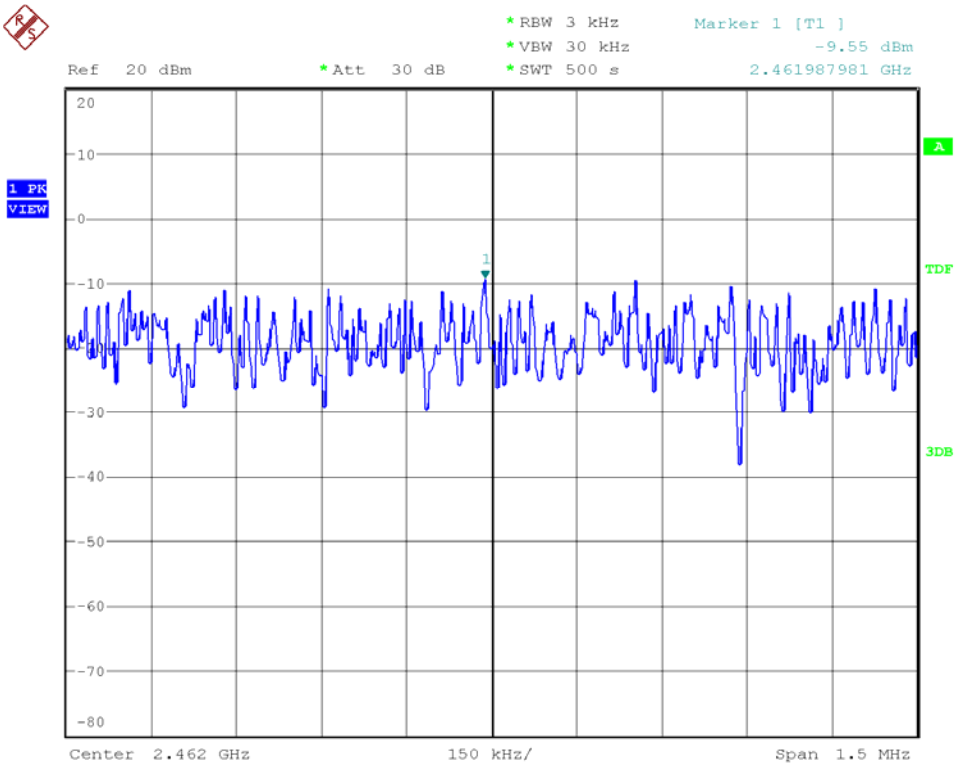
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01



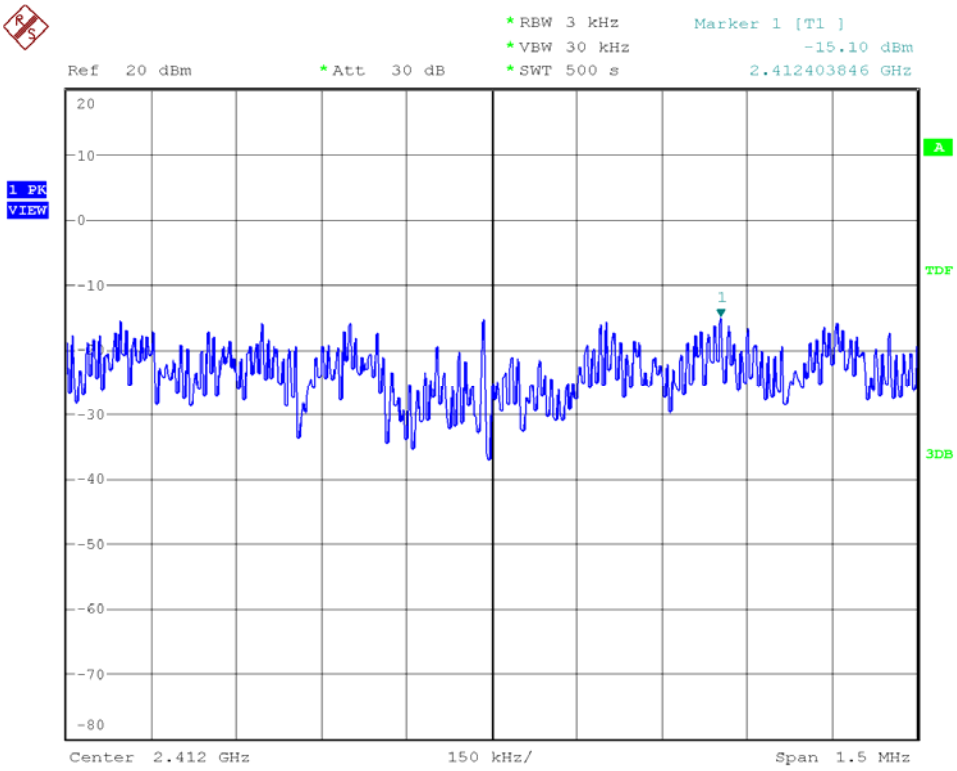
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 06



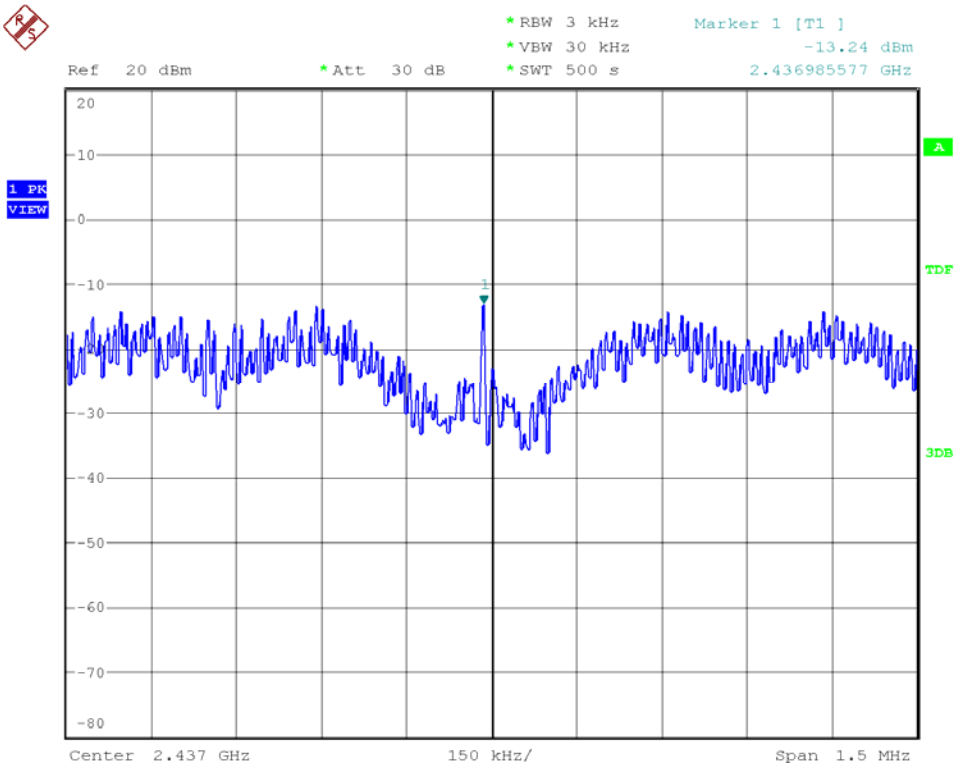
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11



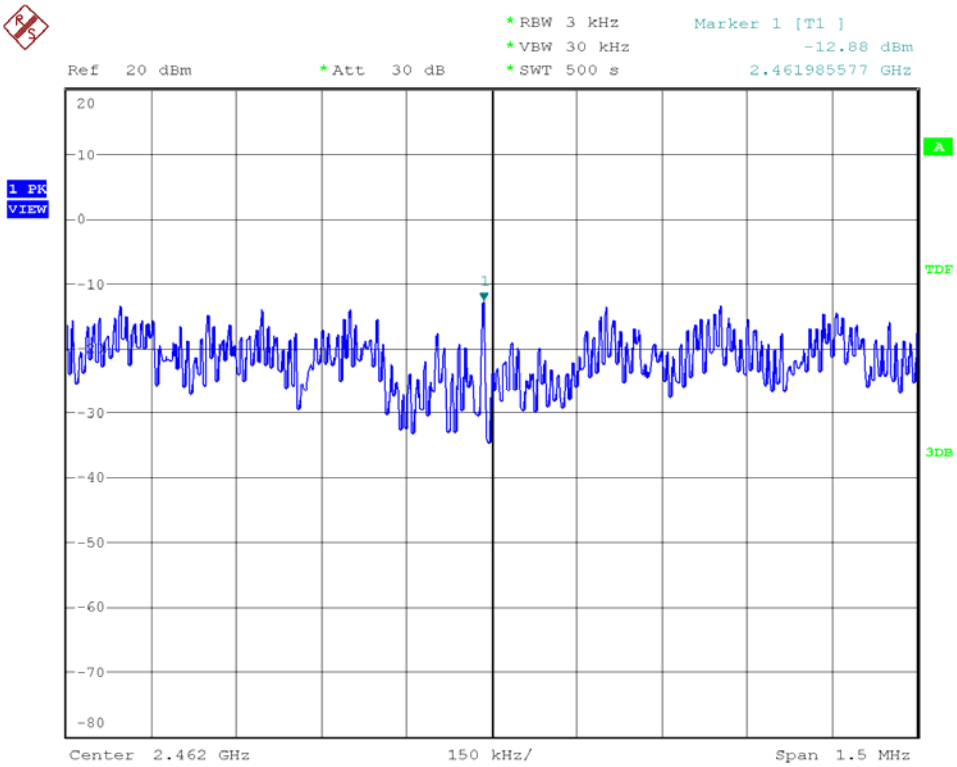
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



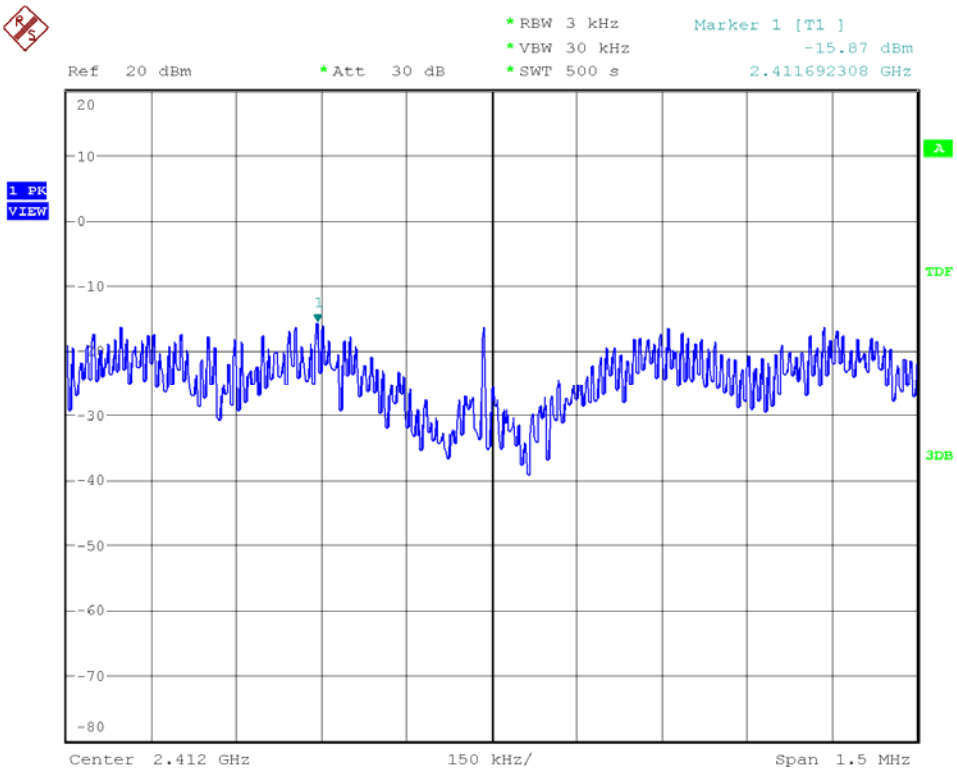
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 06



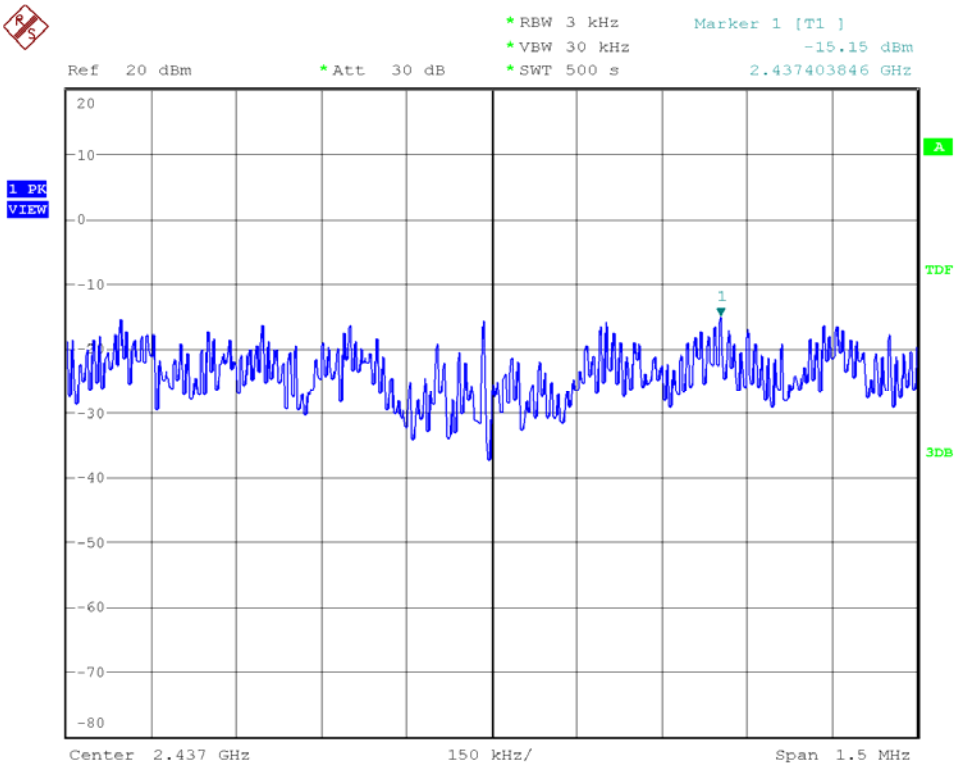
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



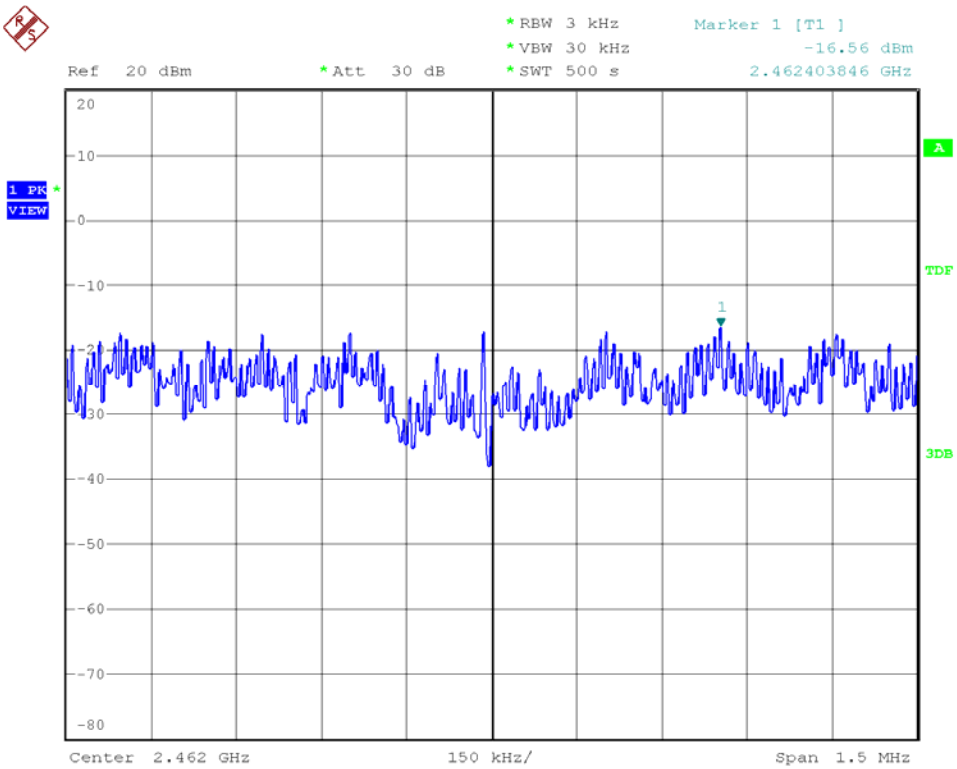
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 01



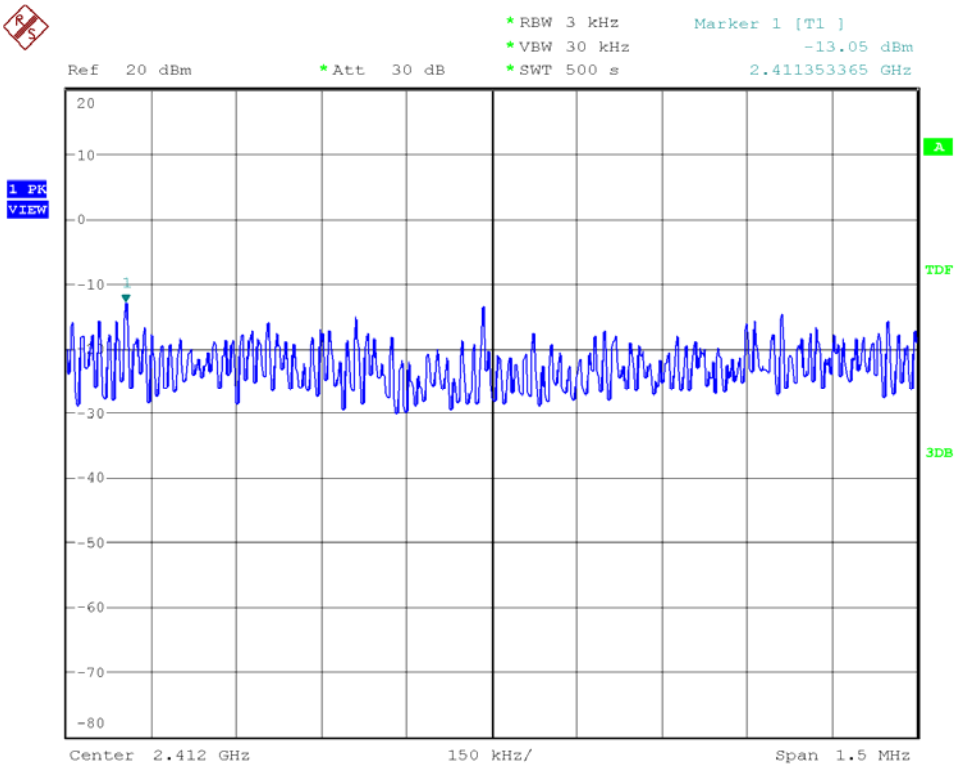
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 06



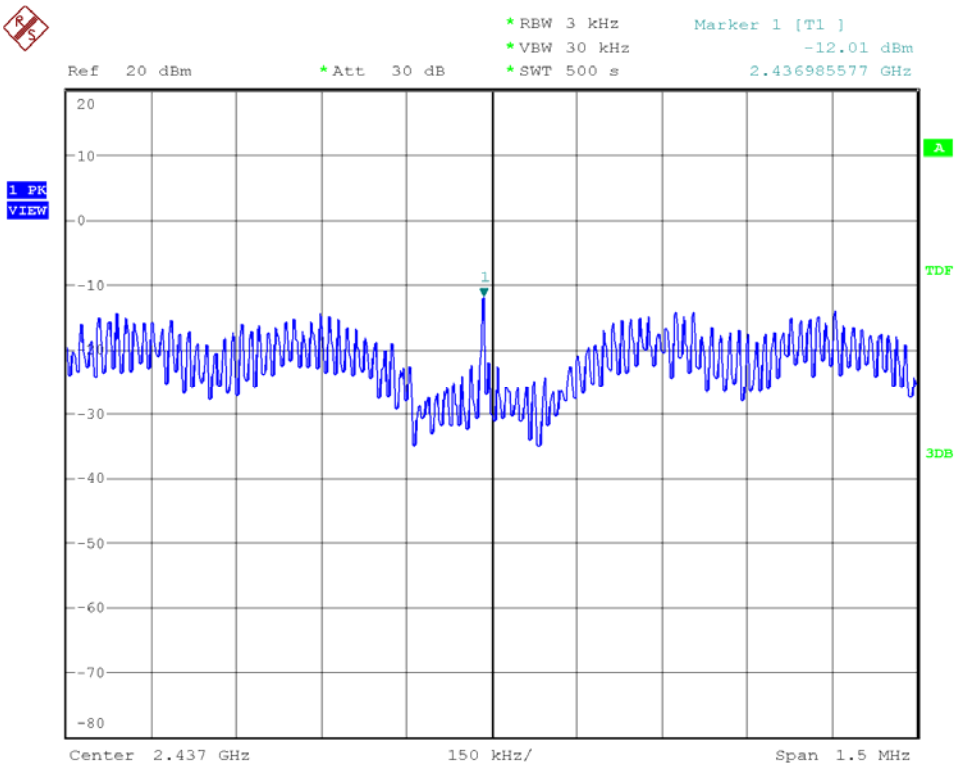
Modulation Standard: 802.11g (54Mbps), Ant2
Channel: 11



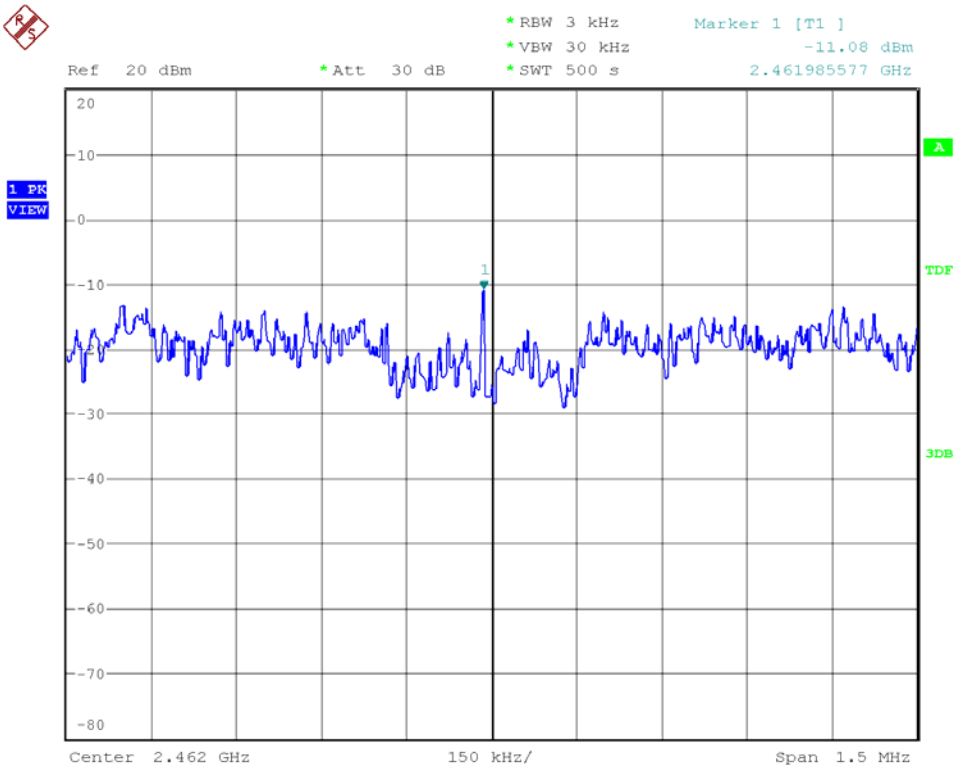
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 01



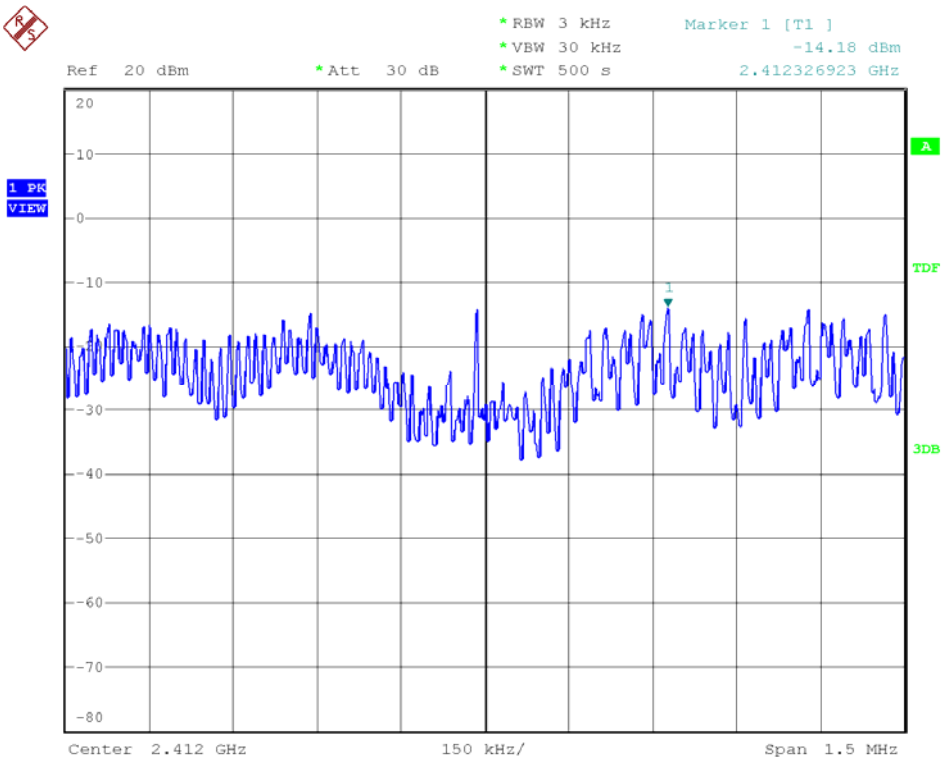
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 06



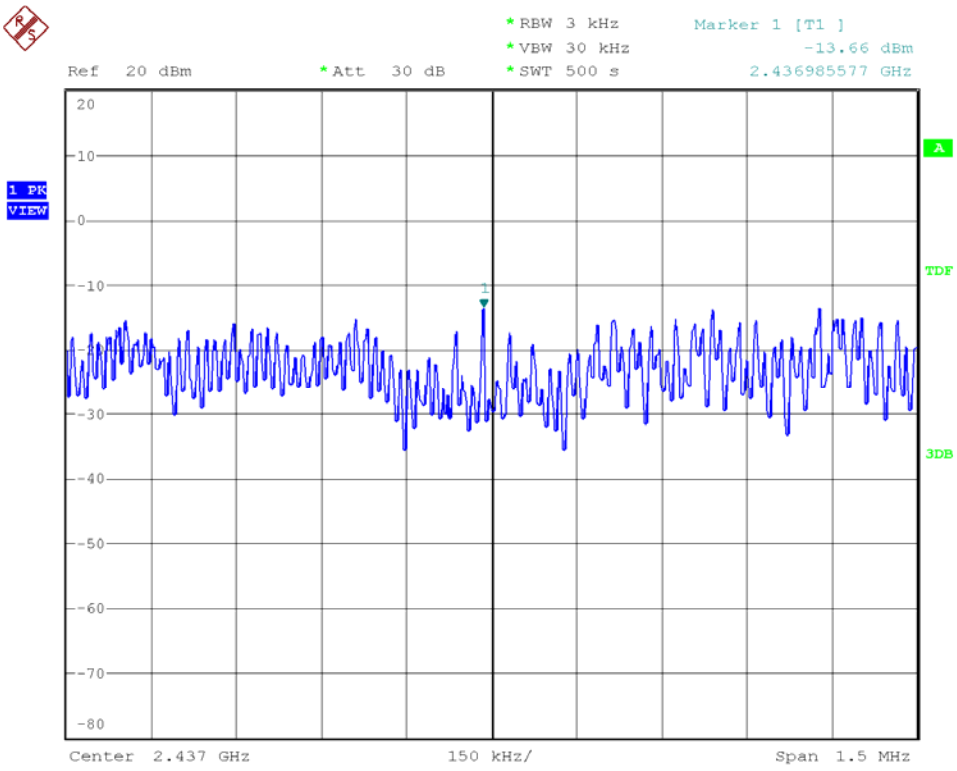
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 11



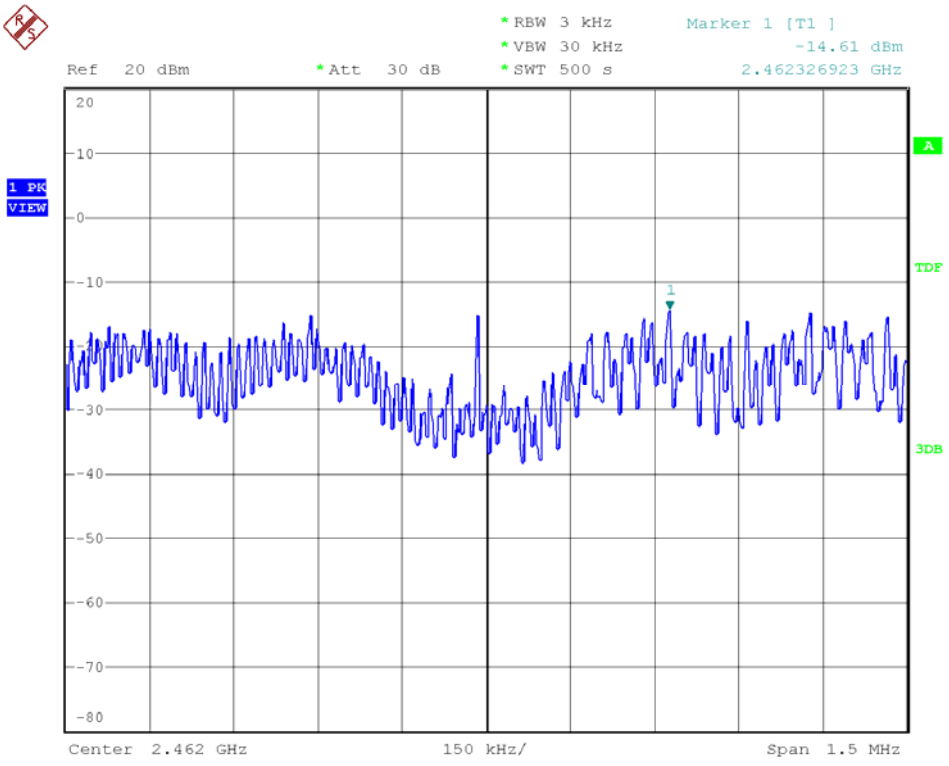
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 01



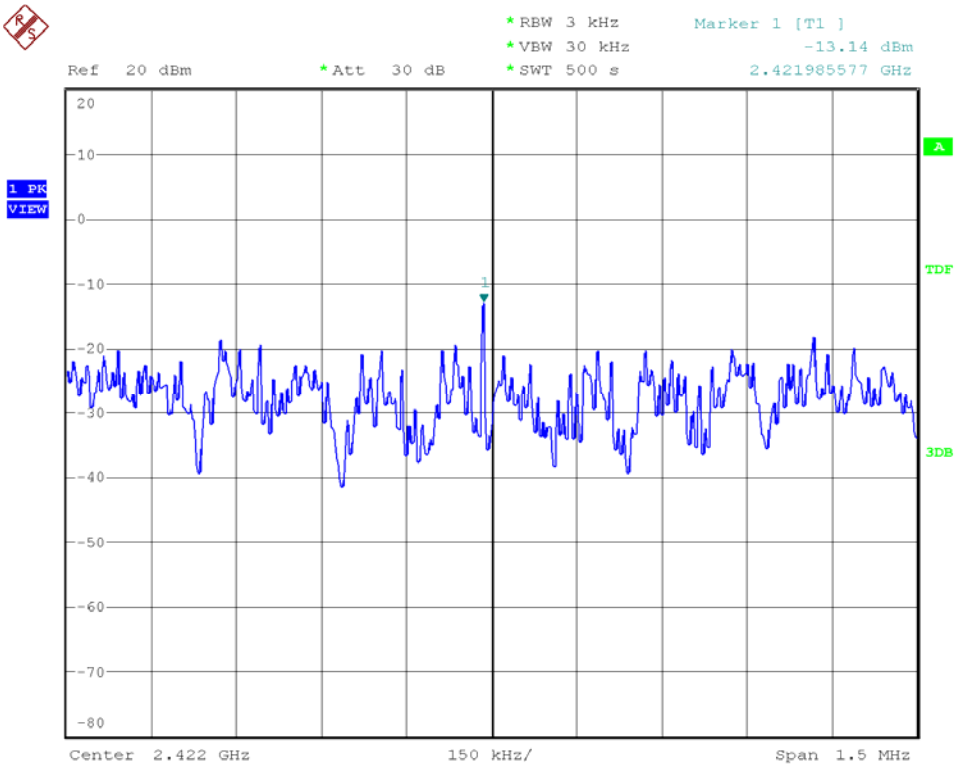
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 06



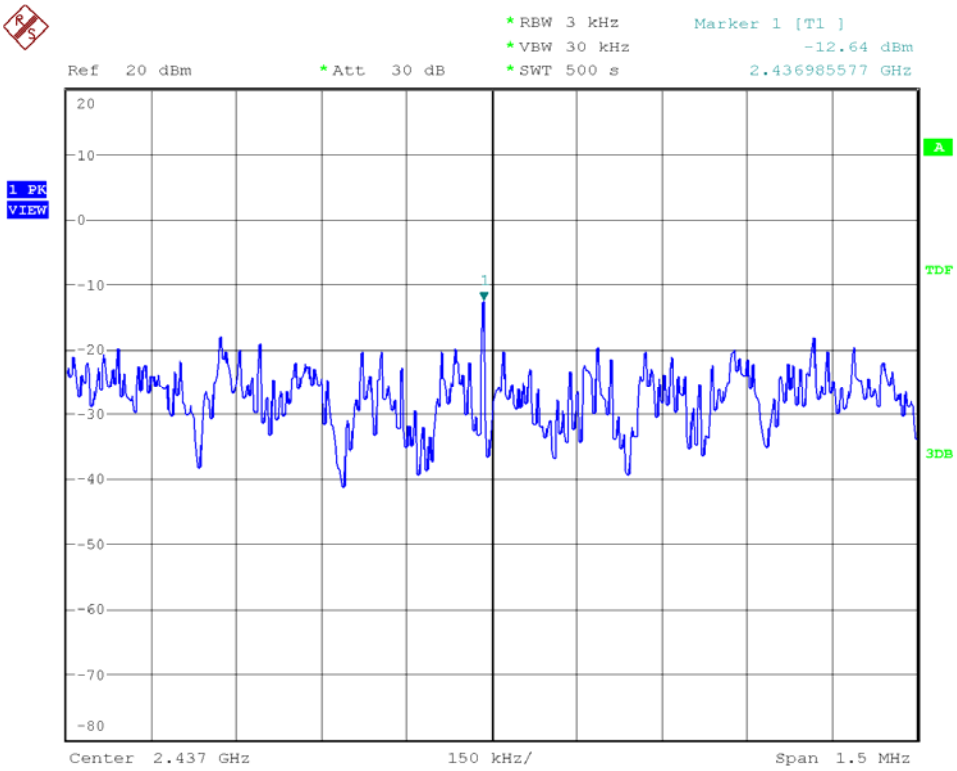
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 11



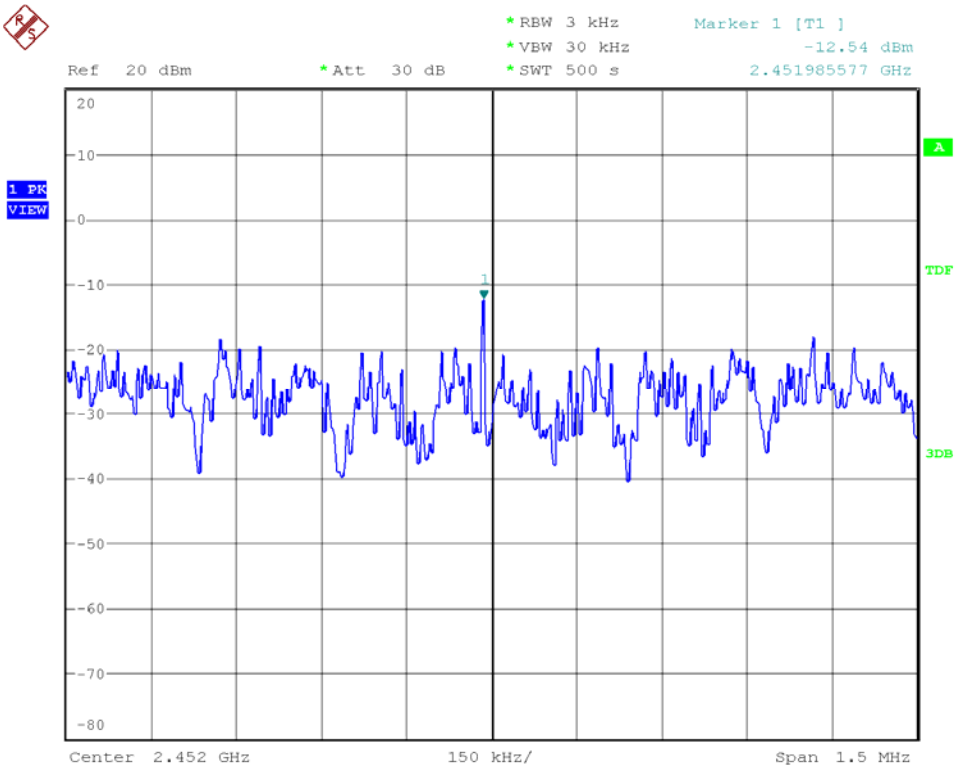
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 03



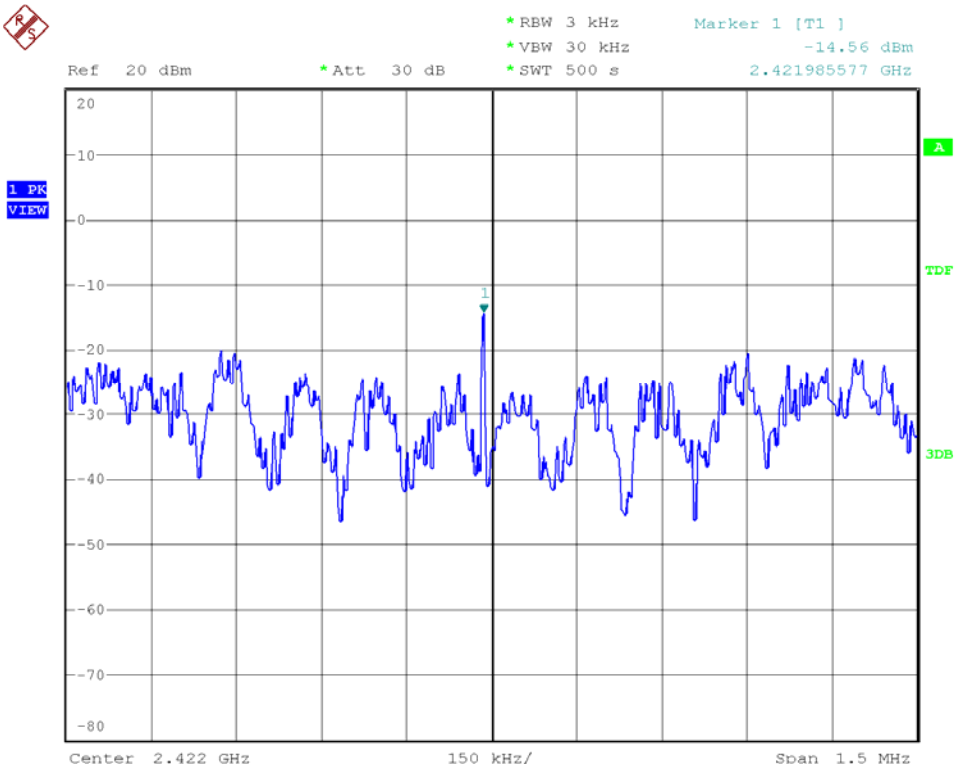
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 06



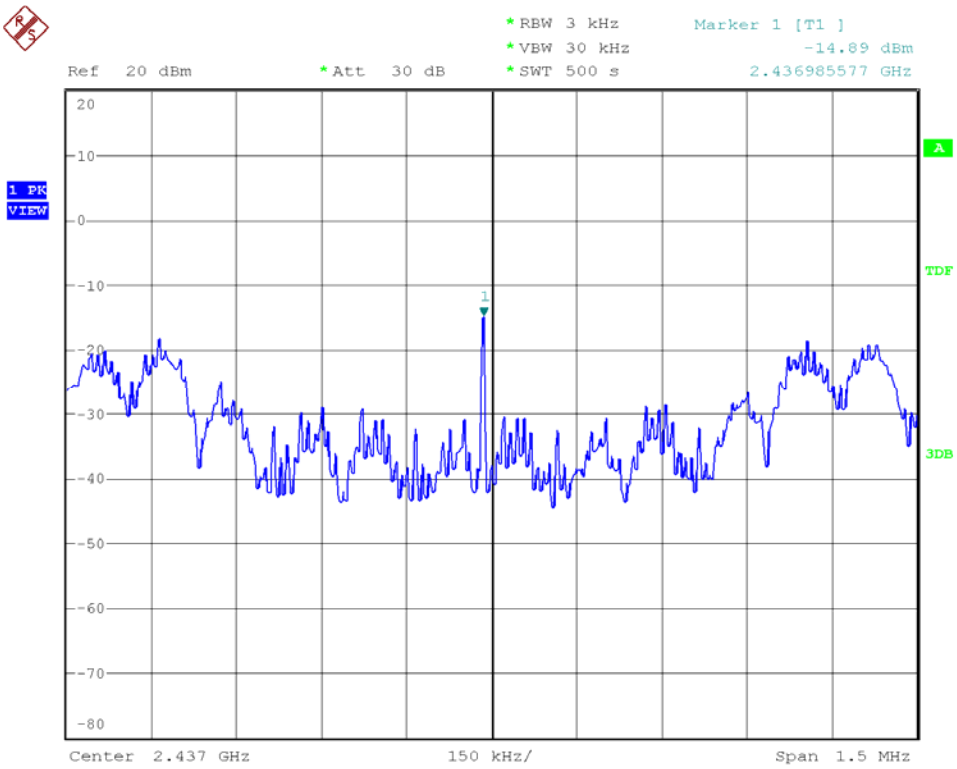
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 09



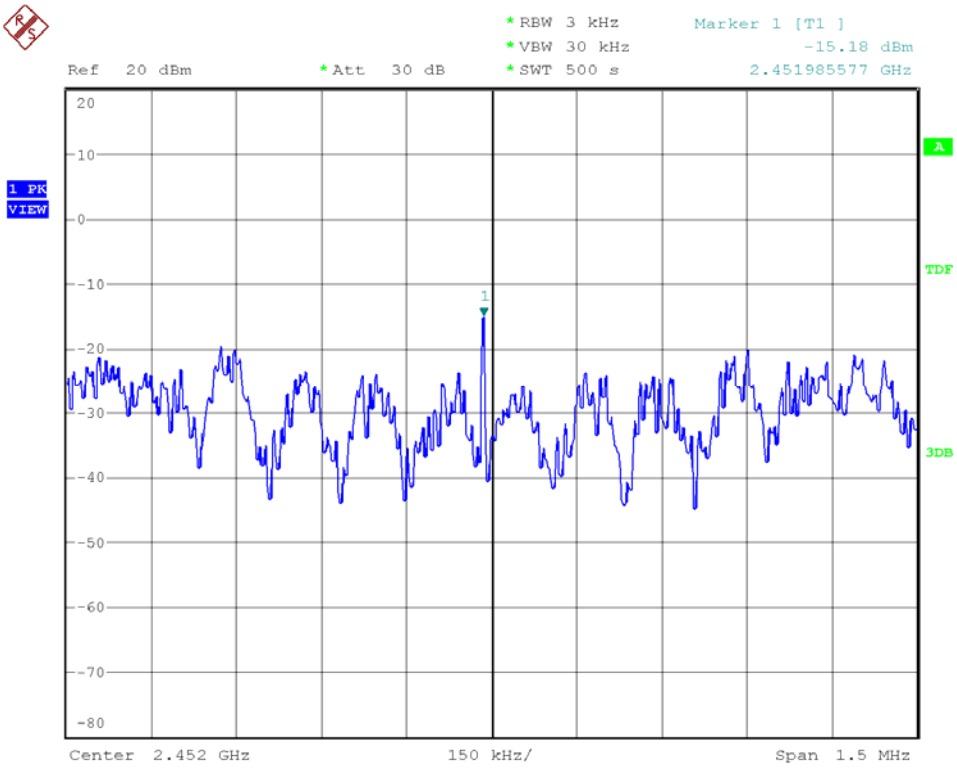
Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 03



Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 06



Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 09



9. Band Edges Measurement

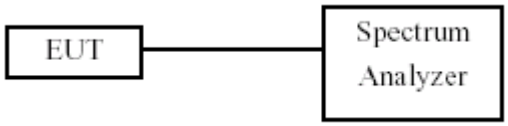
9.1 Test Limit

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

9.2 Test Procedure

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

9.3 Test Setup Layout



9.4 Measurement Equipment

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

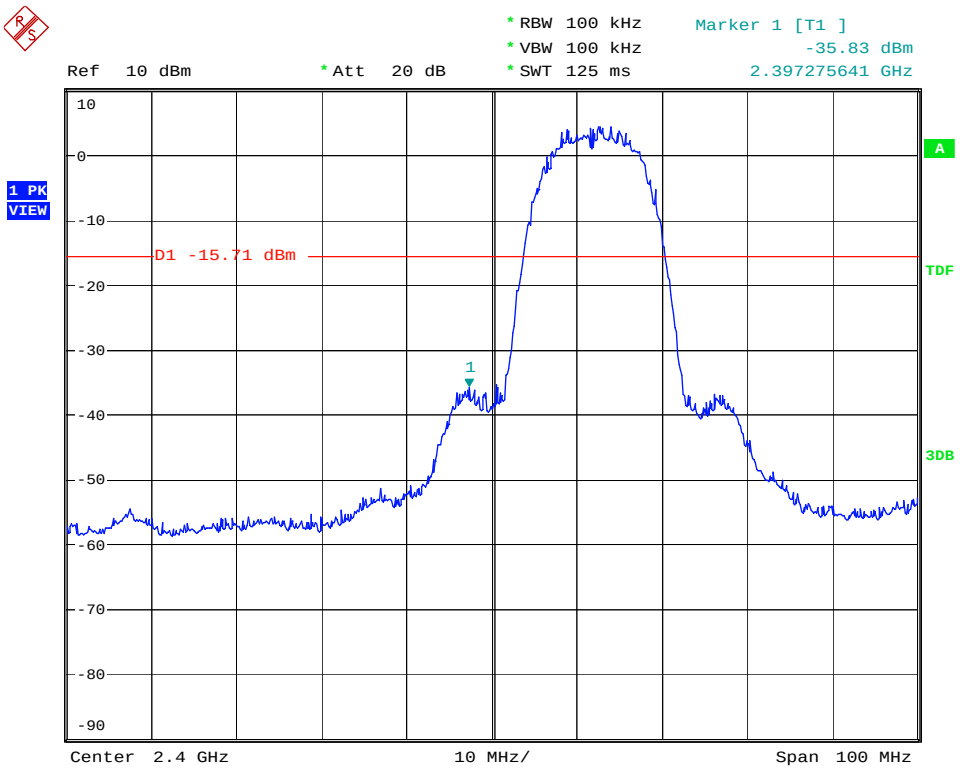
9.5 Test Result and Data

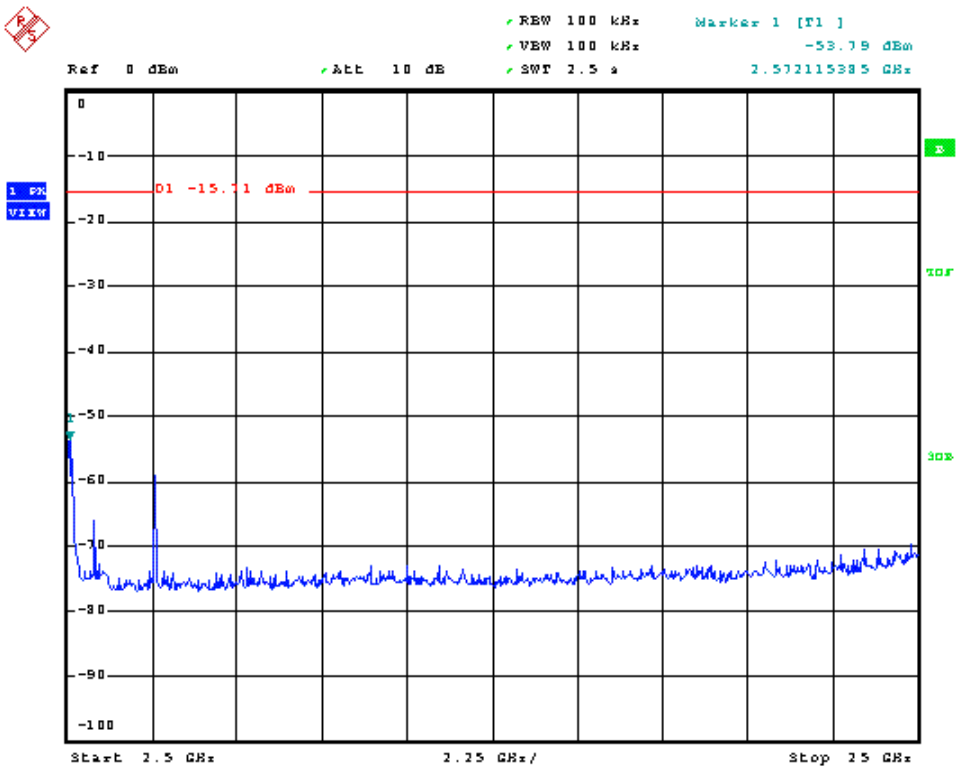
Test Date: Feb. 17, 2009 Temperature: 23℃

Atmospheric pressure: 1020 hPa Humidity: 67%

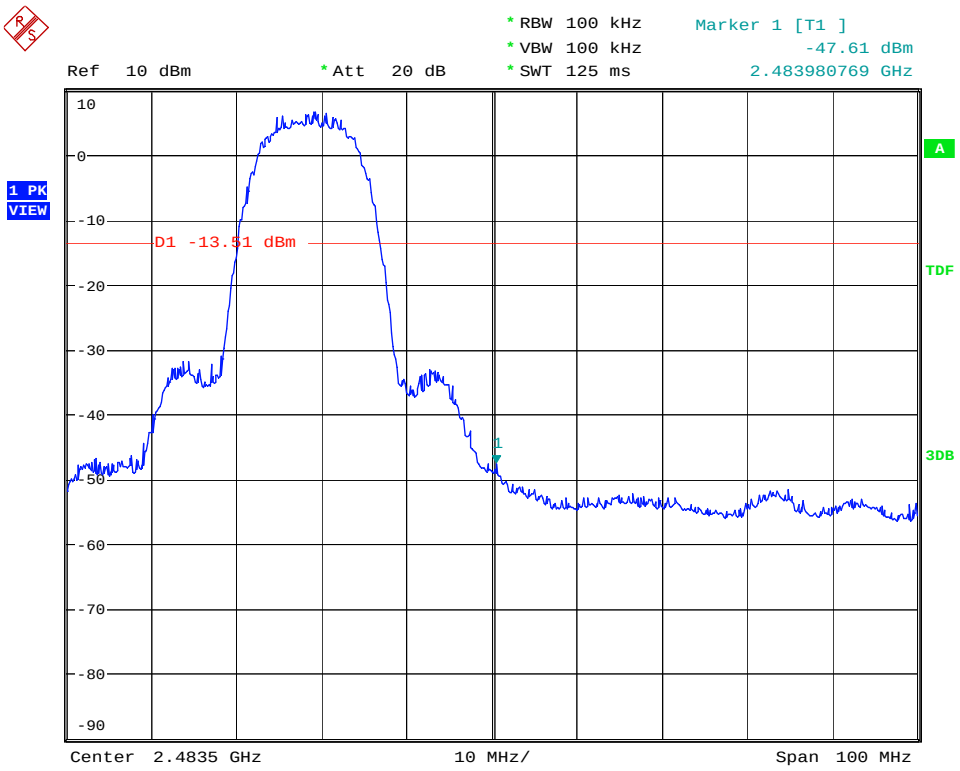
Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)		maximum value (dBm)	
			Ant1	Ant2	Ant1	Ant2
802.11b (11Mbps)	01	2412	23972.75	23972.75	-35.83	-34.86
	11	2462	24839.80	24839.80	-47.61	-52.73
802.11g (54Mbps)	01	2412	23995.19	23998.39	-39.27	-41.80
	11	2462	24836.60	24836.60	-49.40	-56.05
802.11n HT20 (130Mbps)	01	2412	23996.79	23998.39	-39.49	-37.67
	11	2462	24836.60	24836.60	-45.10	-54.28
802.11n HT40 (270Mbps)	03	2422	23995.10	23988.78	-38.73	-41.23
	09	2452	24838.20	24846.21	-45.30	-46.99

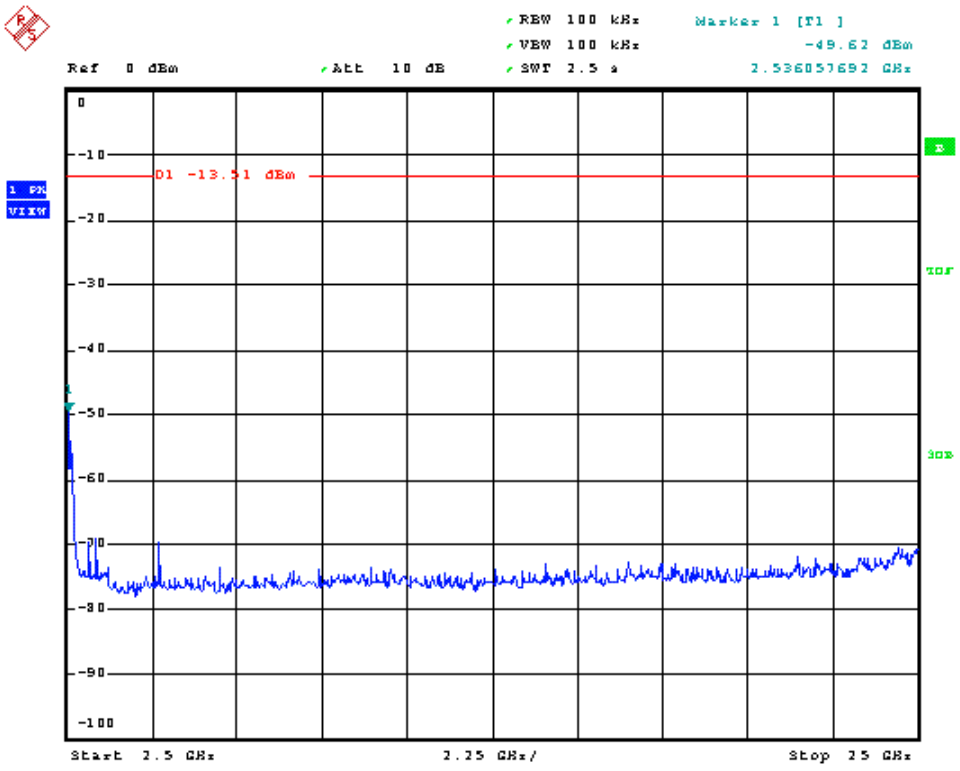
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 01



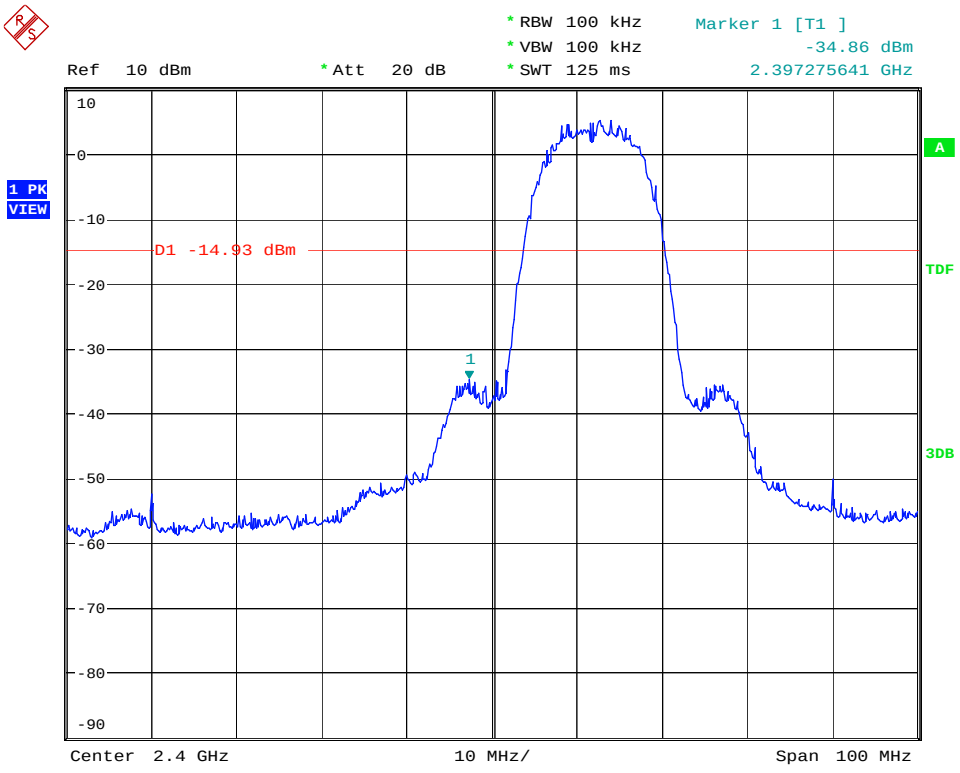


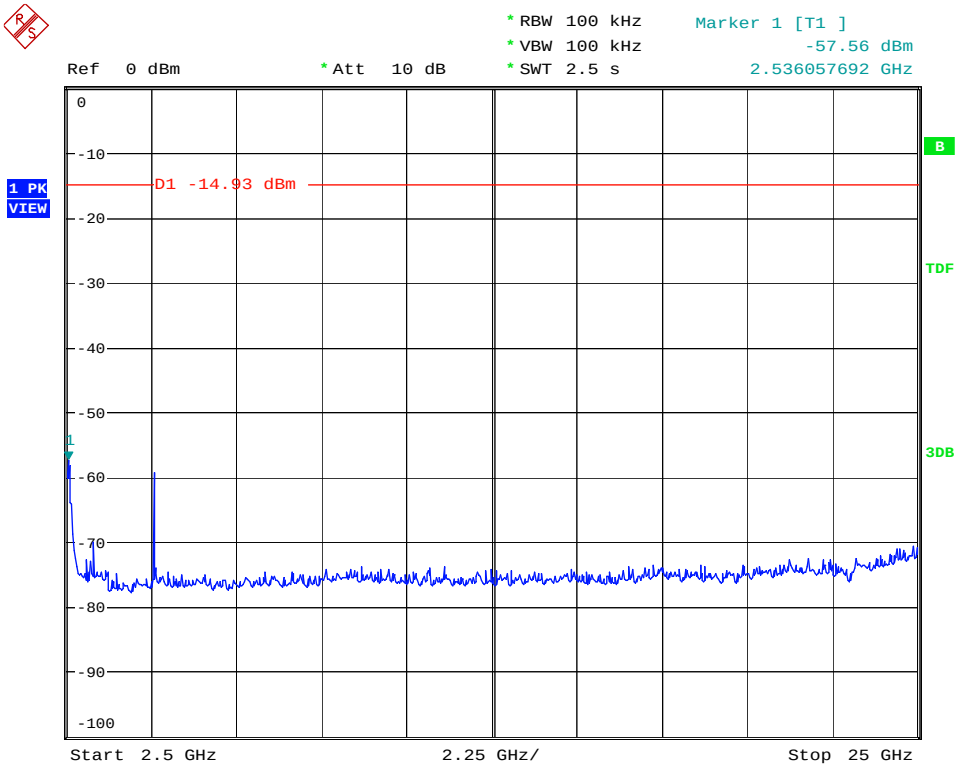
Modulation Standard: 802.11b (11Mbps), Ant1
Channel: 11



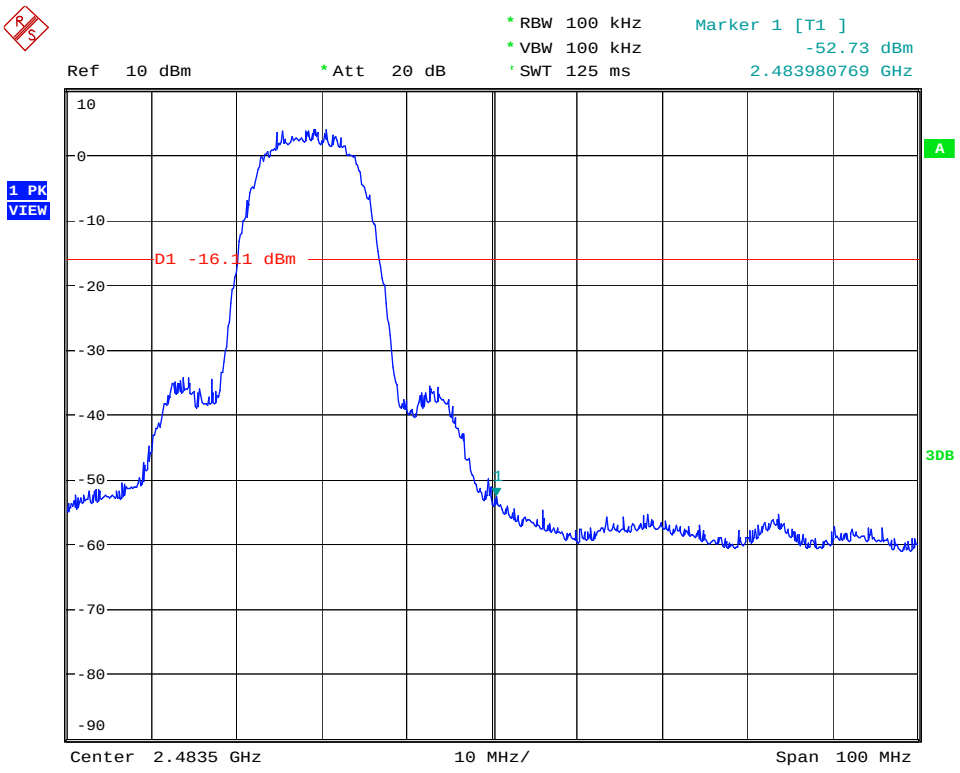


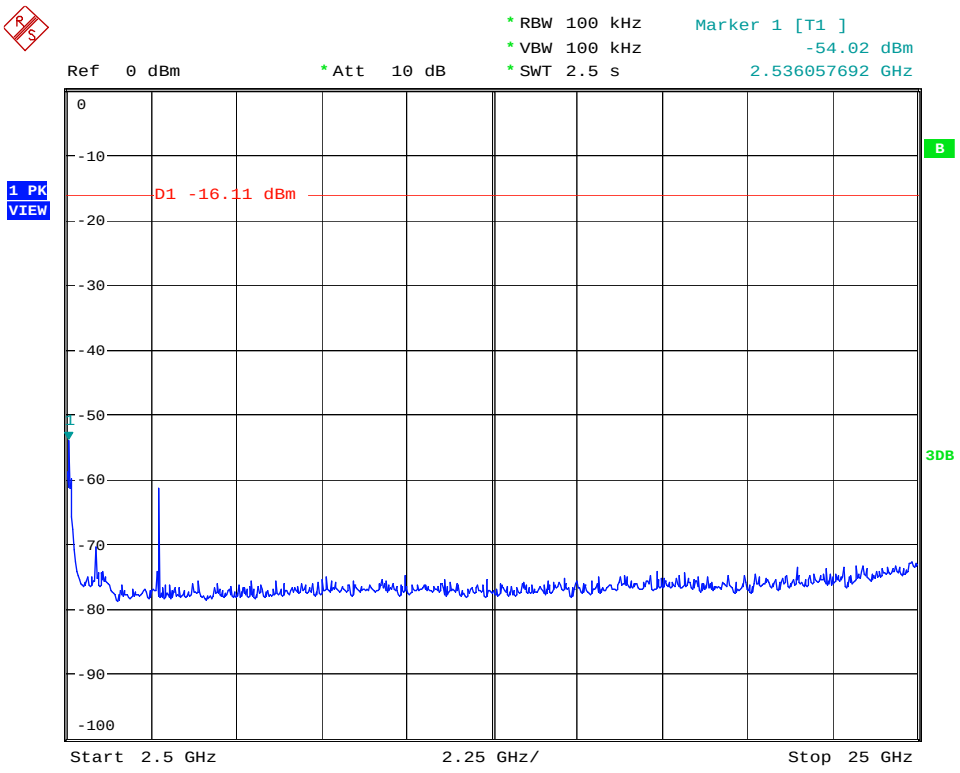
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 01



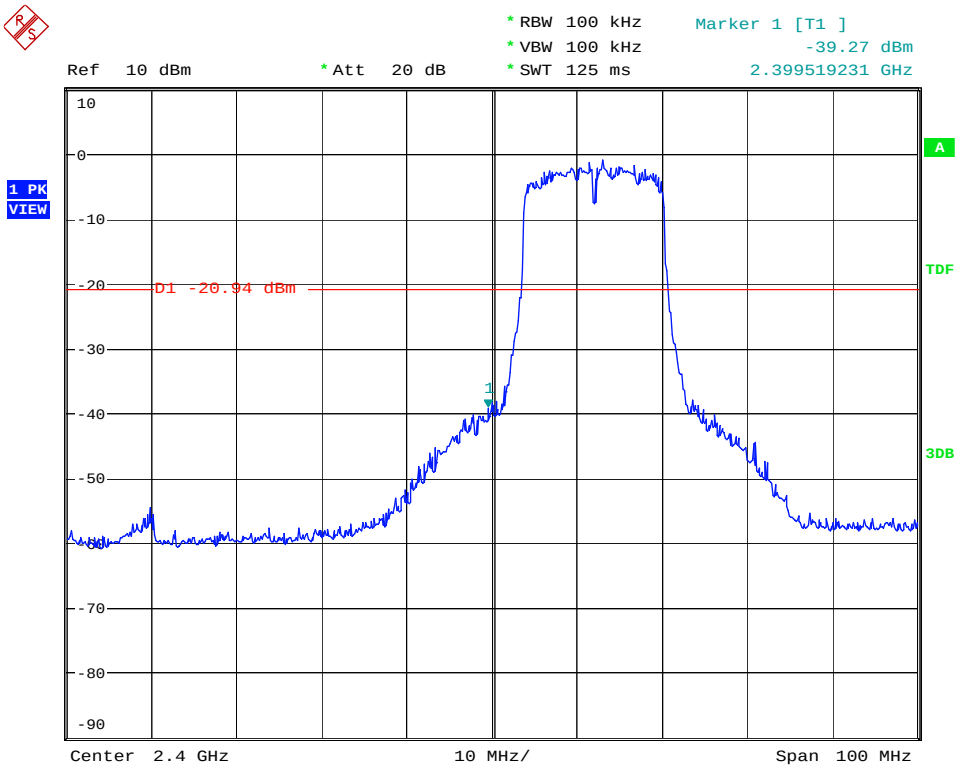


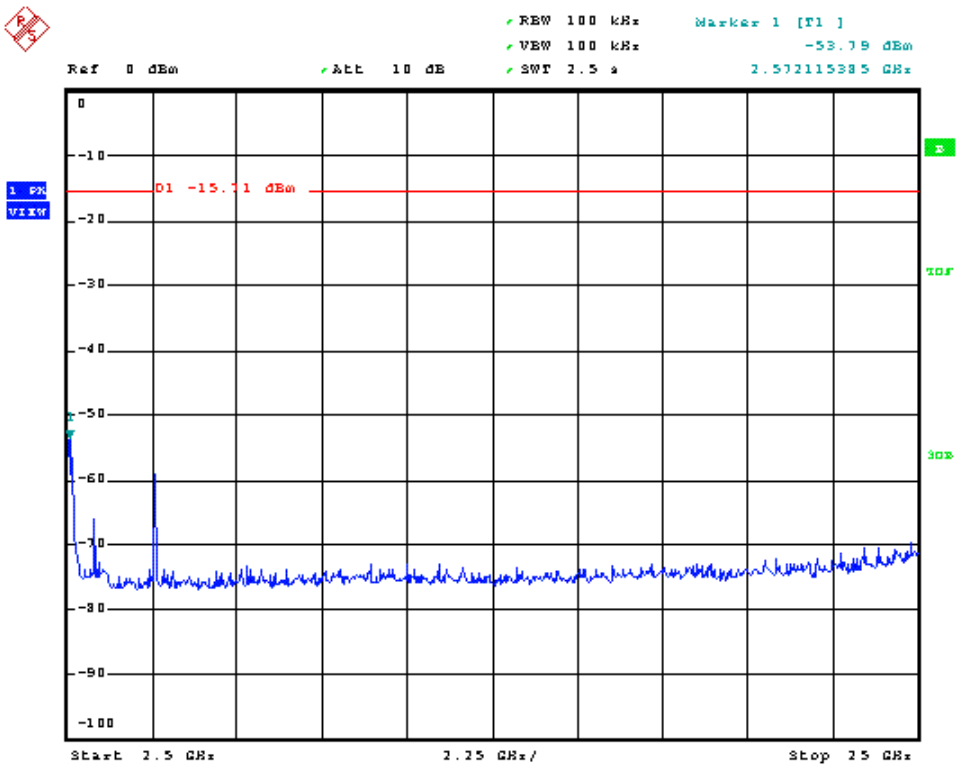
Modulation Standard: 802.11b (11Mbps), Ant2
Channel: 11



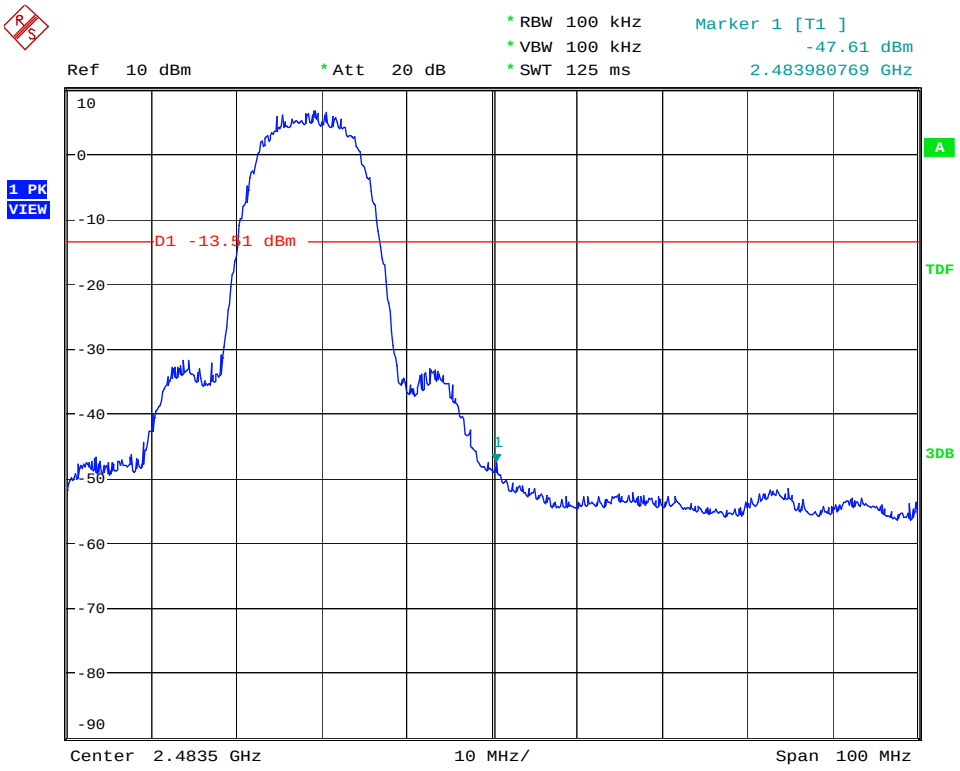


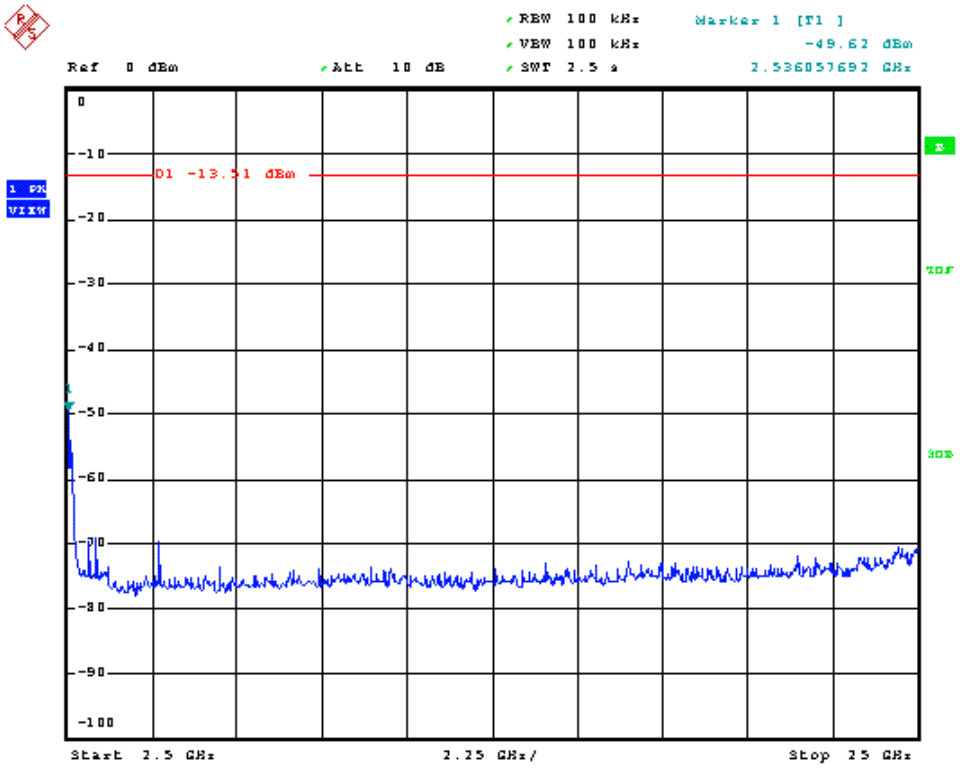
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 01



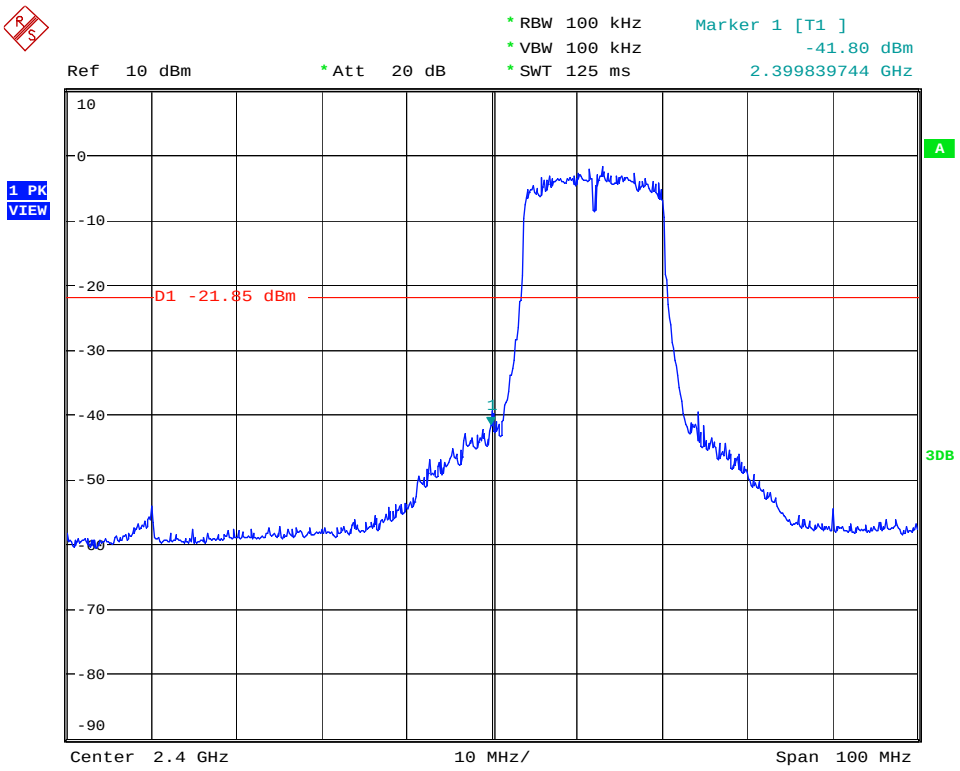


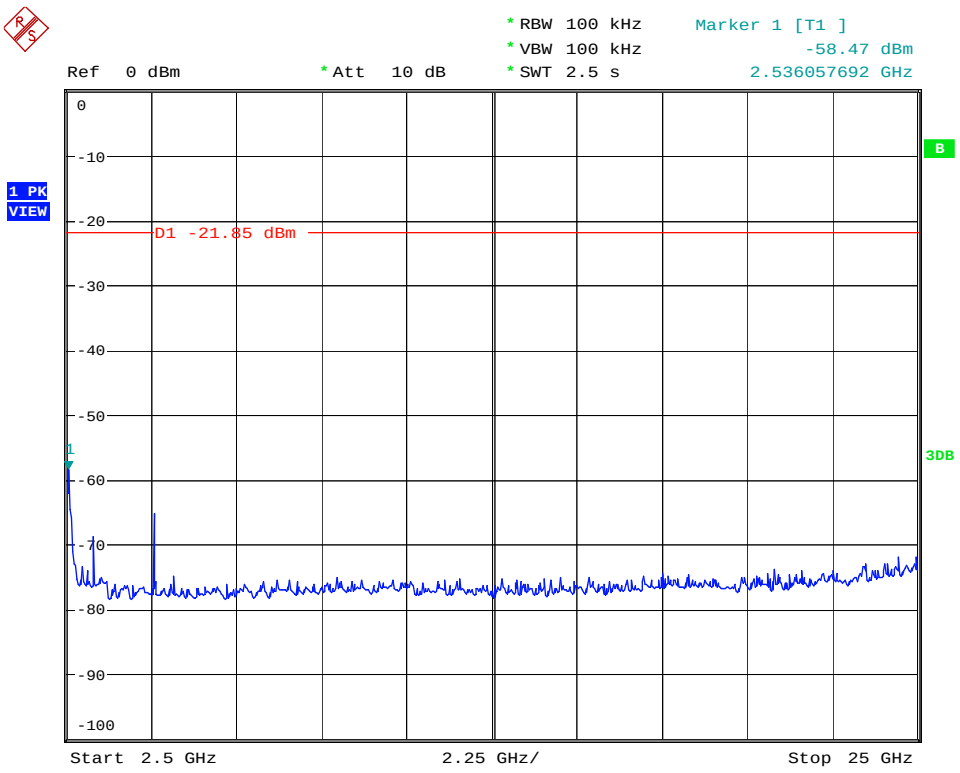
Modulation Standard: 802.11g (54Mbps), Ant1
Channel: 11



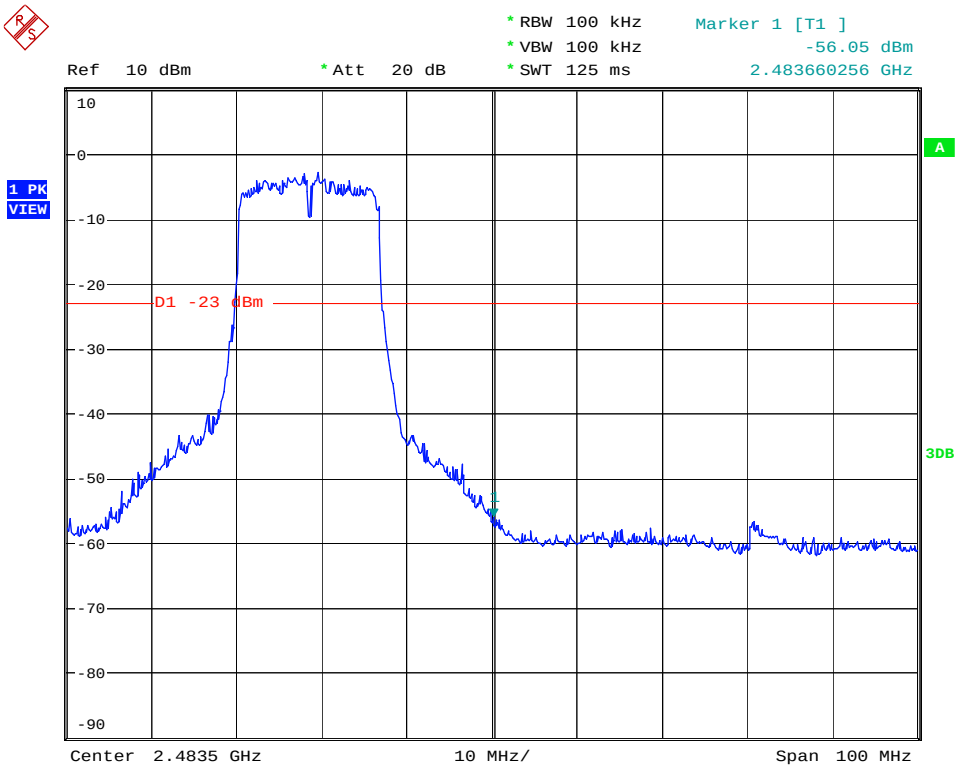


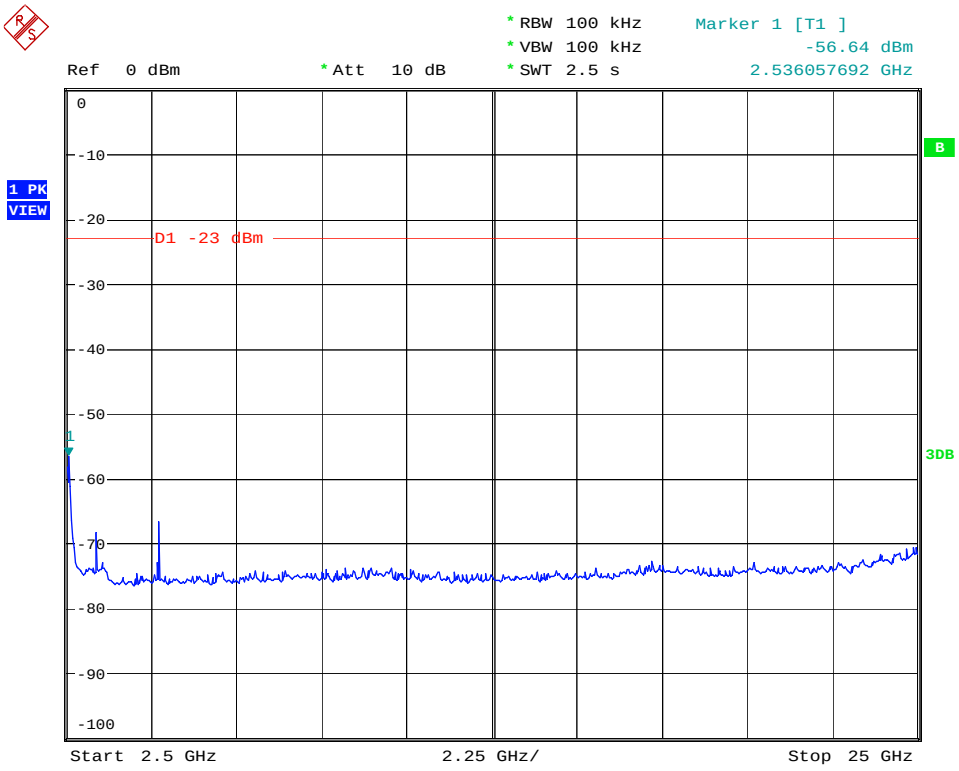
Modulation Standard: 802.11g (054Mbps), Ant2
Channel: 01



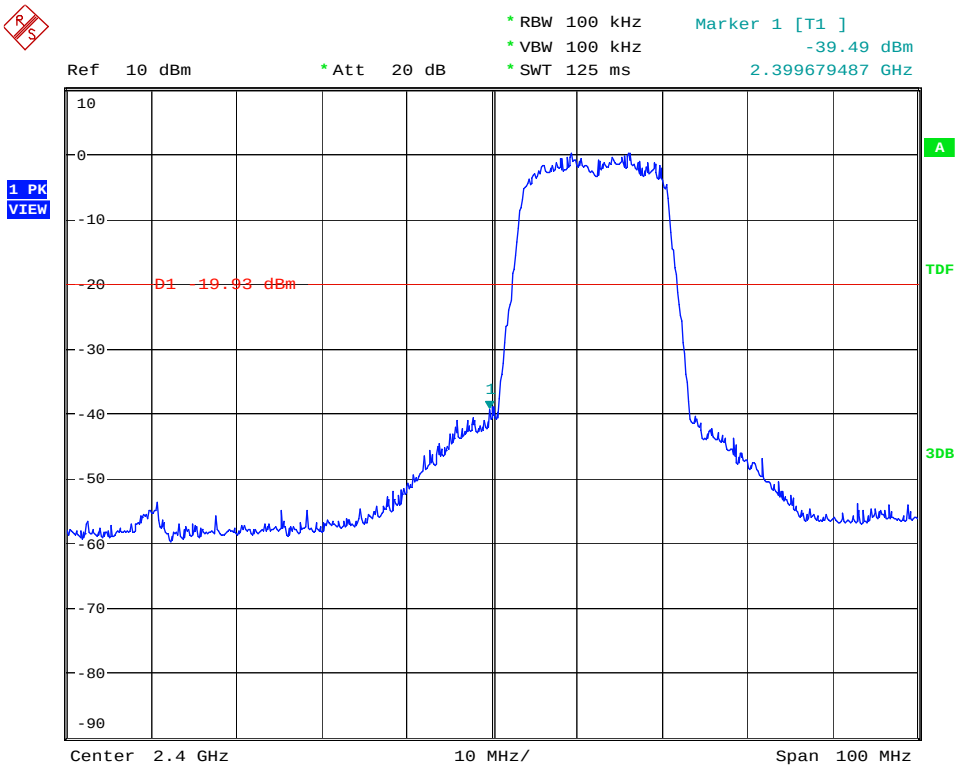


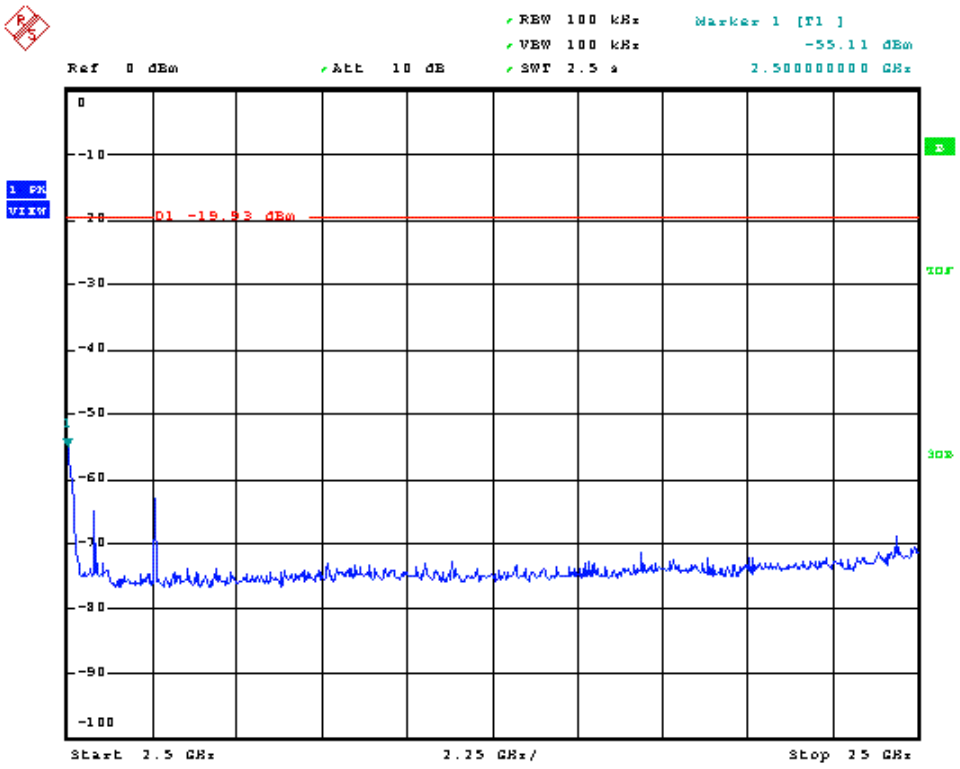
Modulation Standard: 802.11g (054Mbps), Ant2
Channel: 11



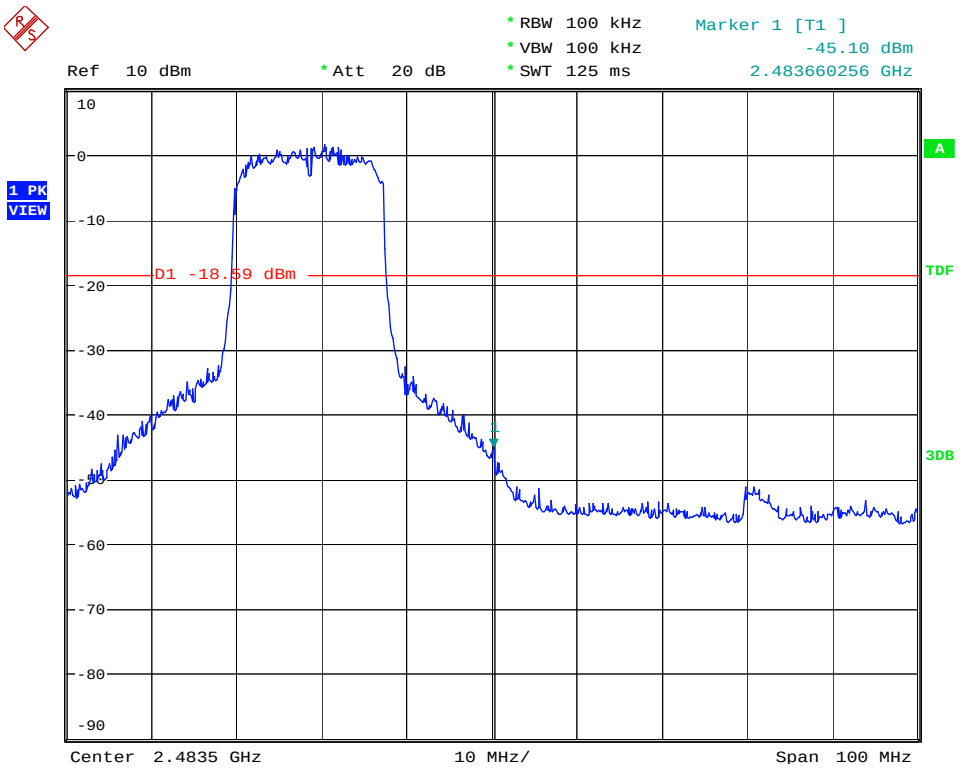


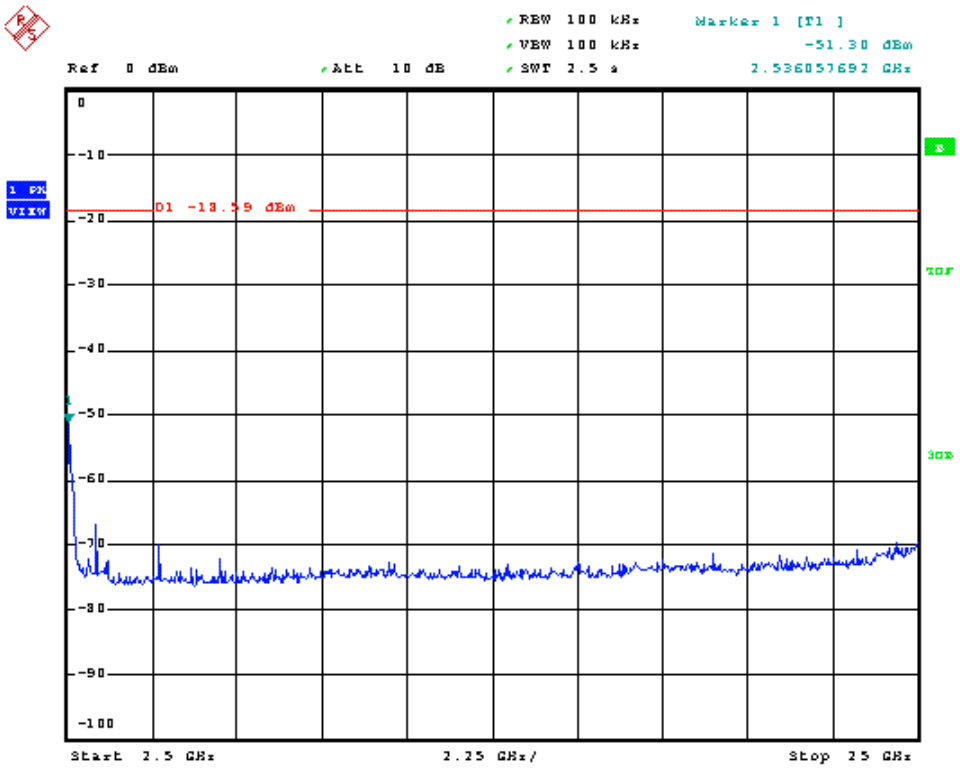
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 01



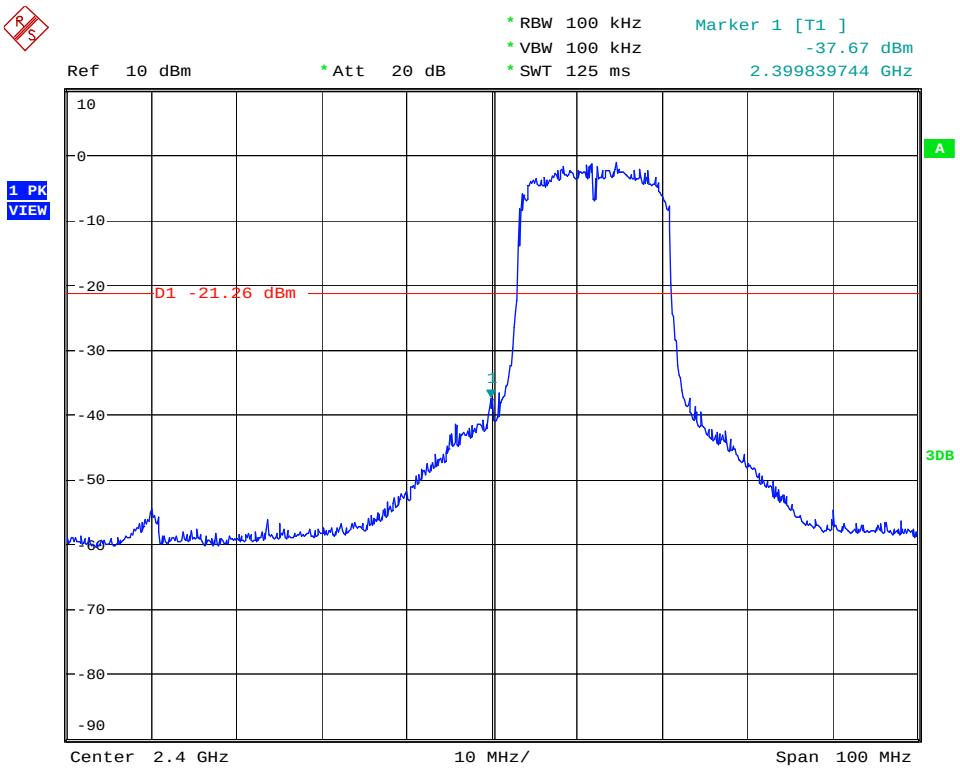


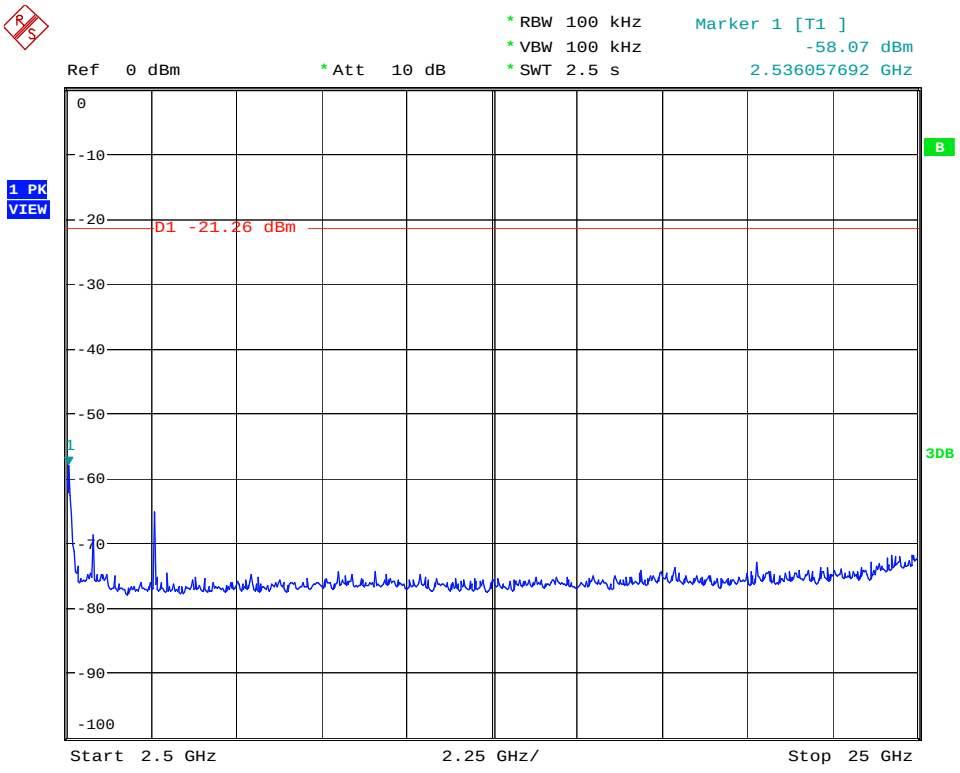
Modulation Standard: 802.11n HT20 (130Mbps), Ant1
Channel: 11



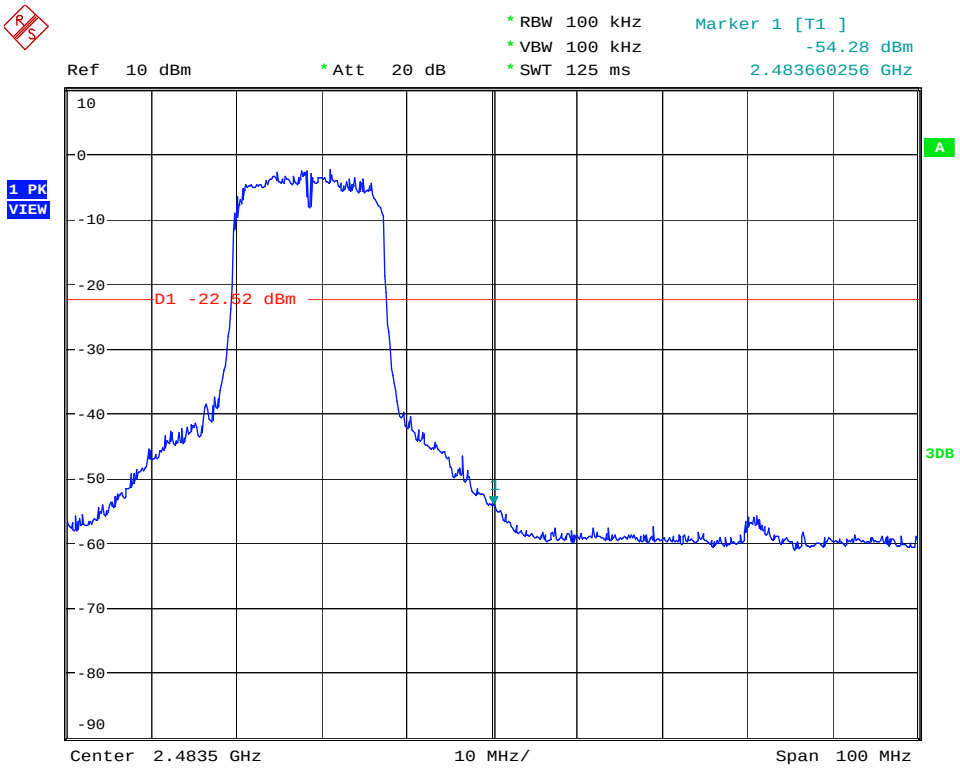


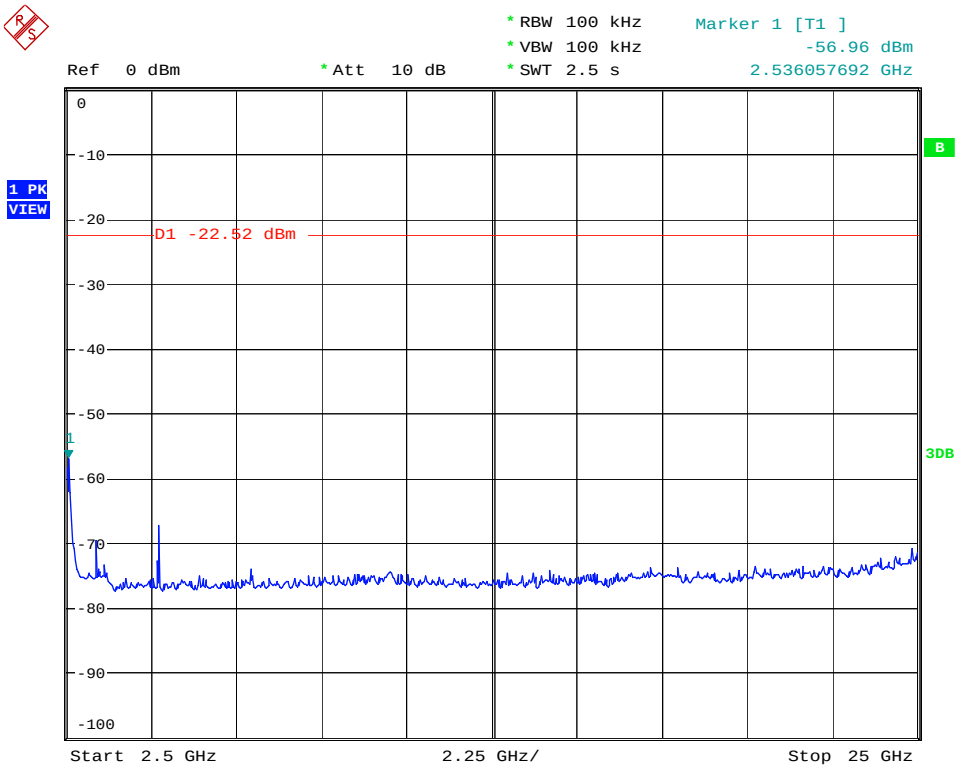
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 01



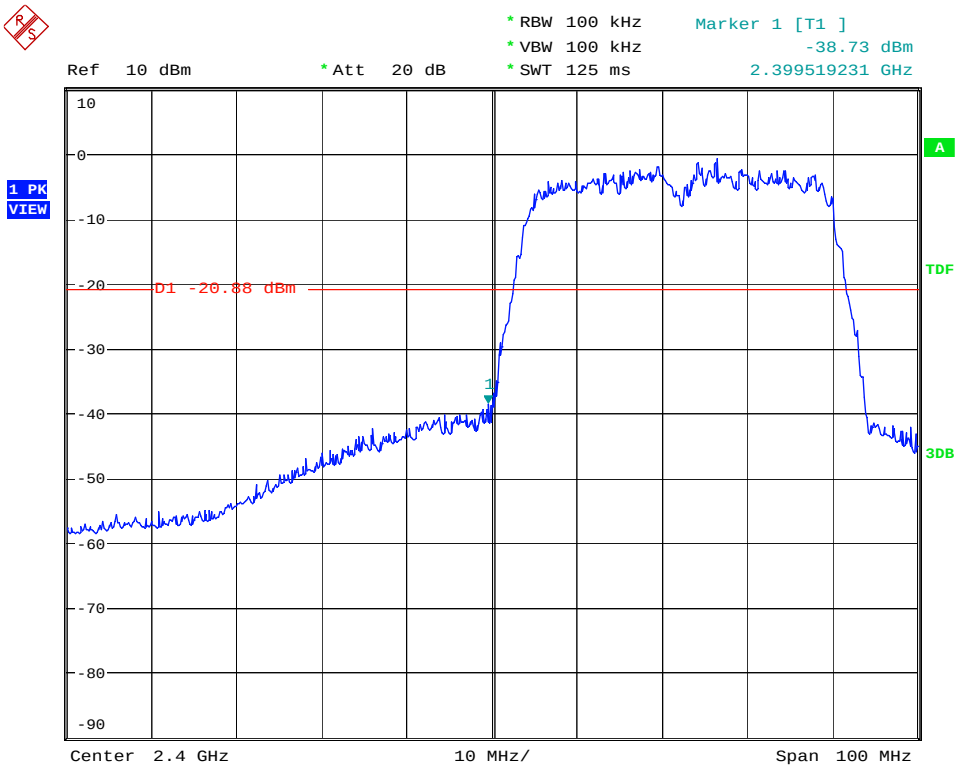


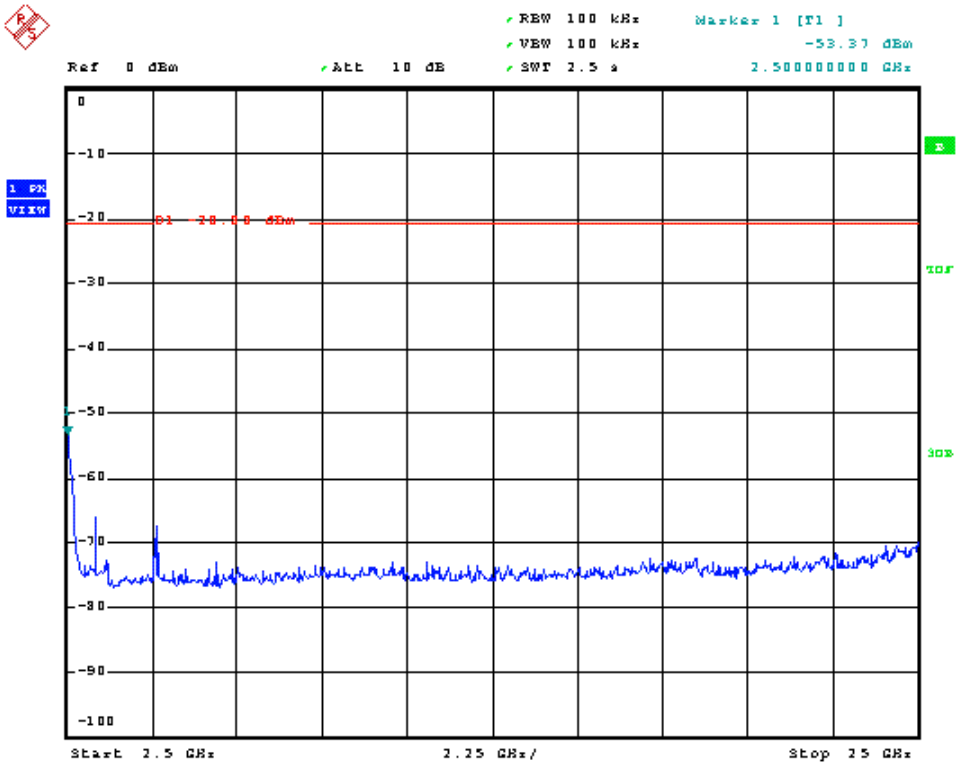
Modulation Standard: 802.11n HT20 (130Mbps), Ant2
Channel: 11



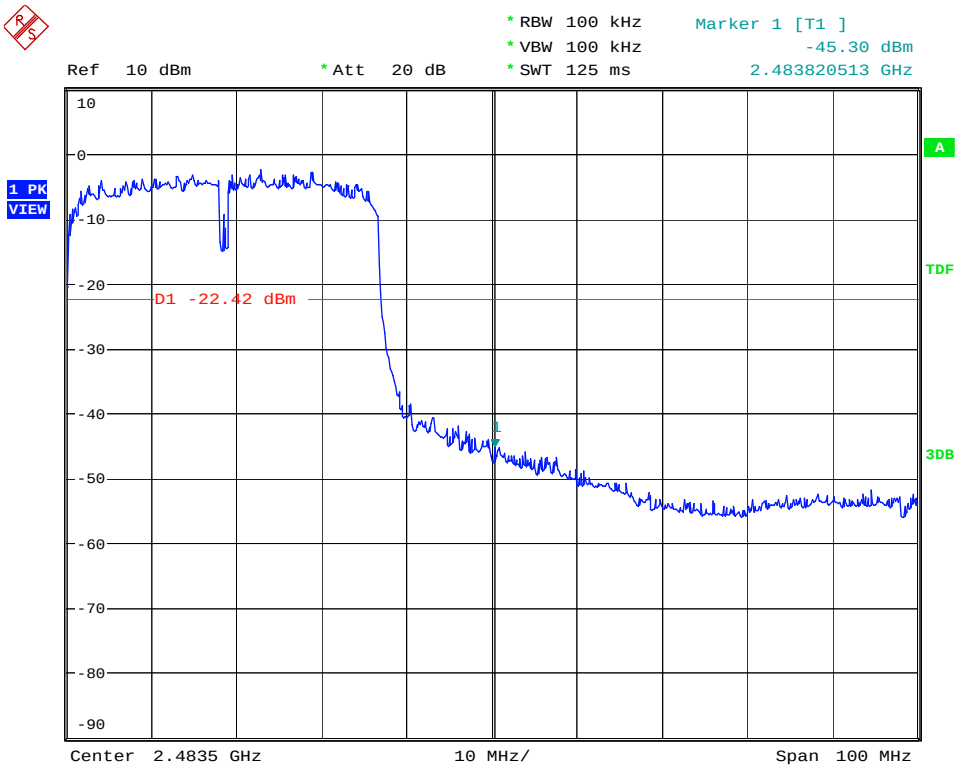


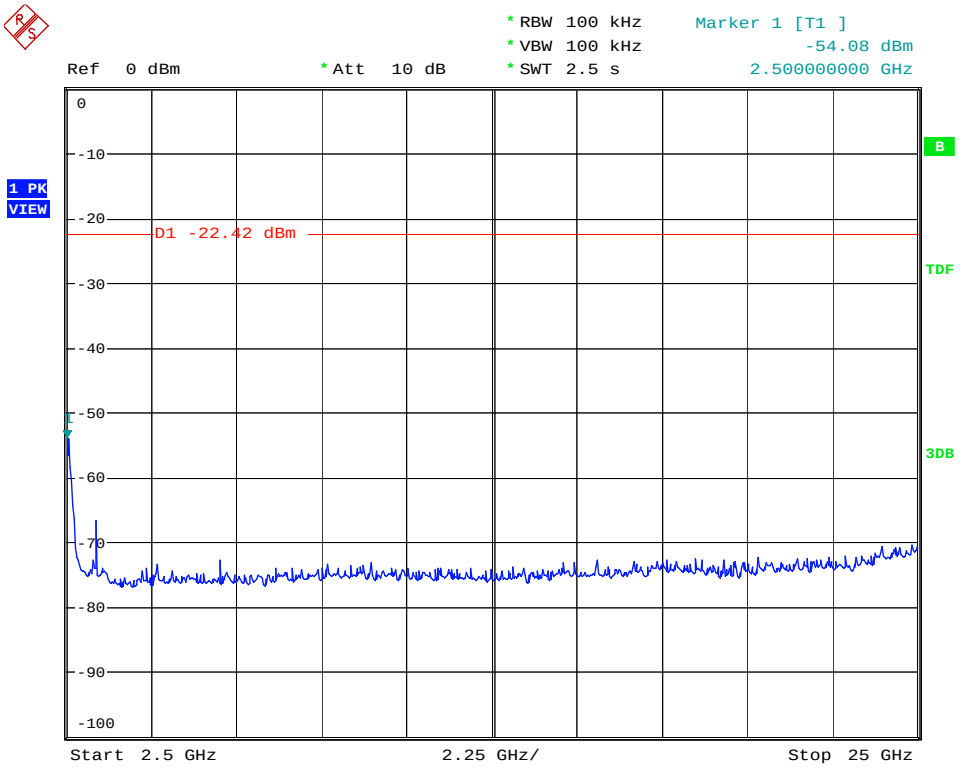
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 03



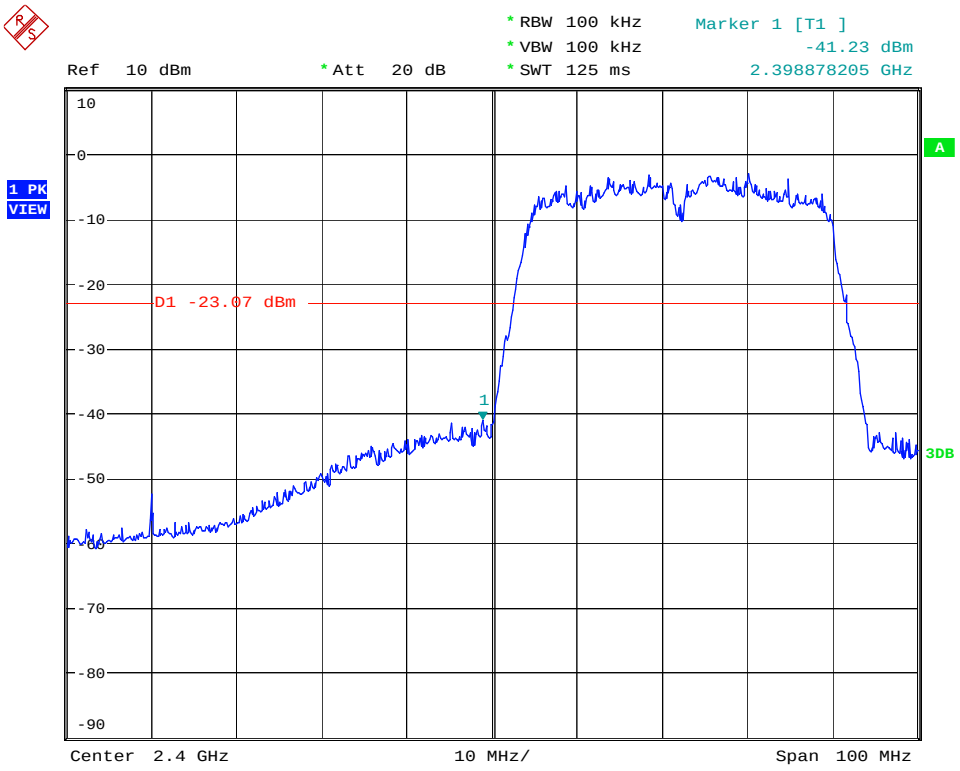


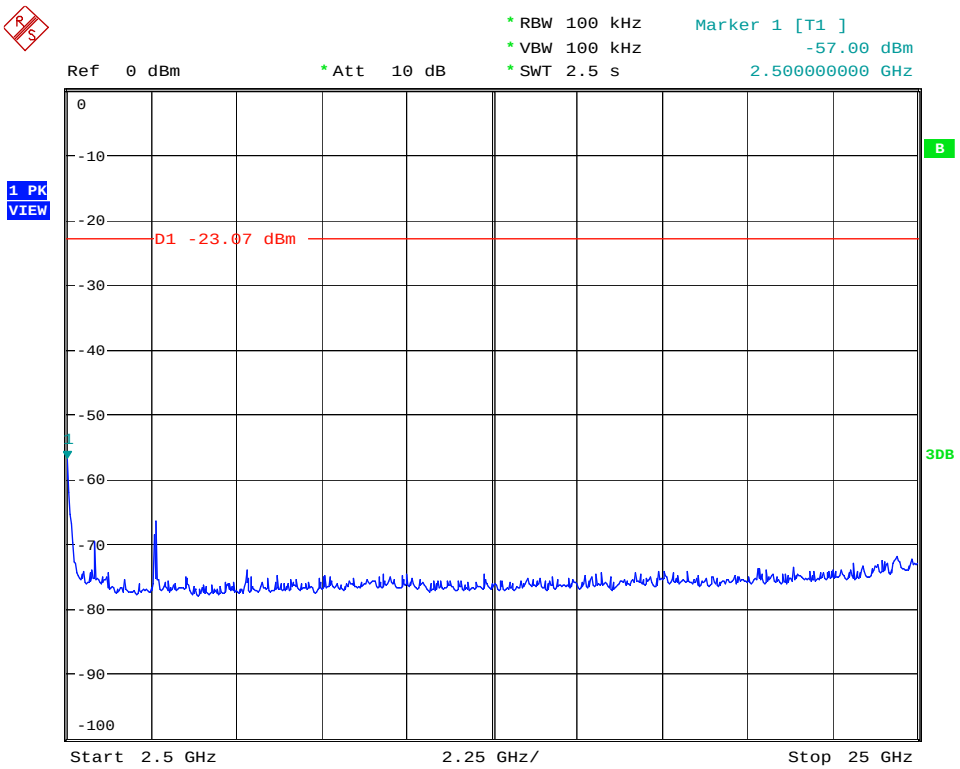
Modulation Standard: 802.11n HT40 (270Mbps), Ant1
Channel: 09



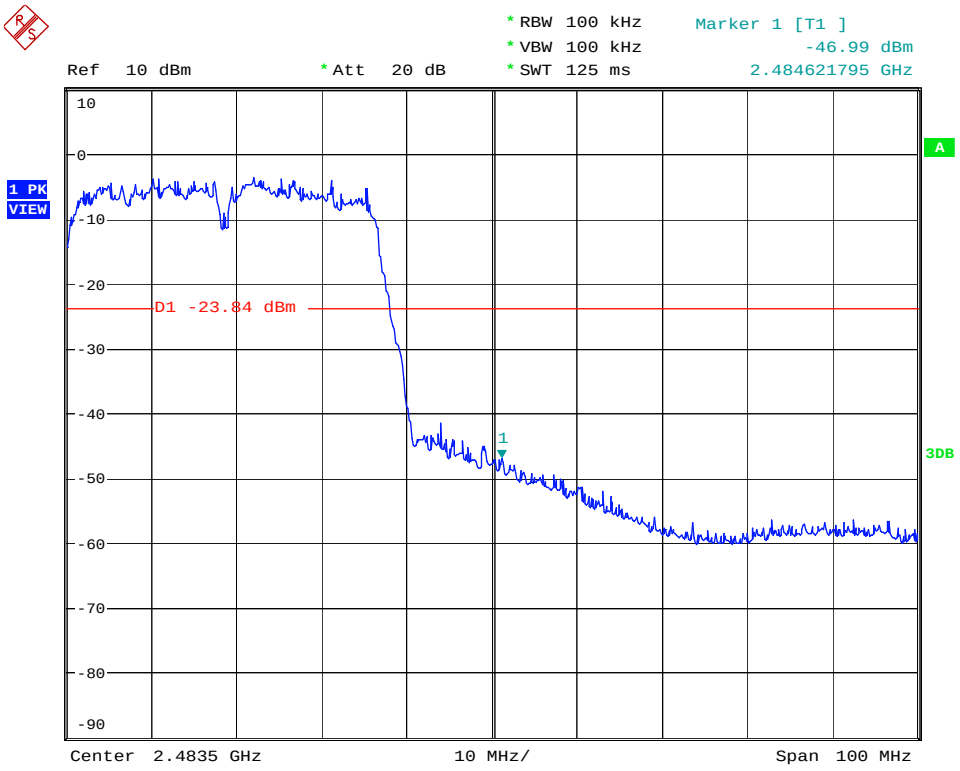


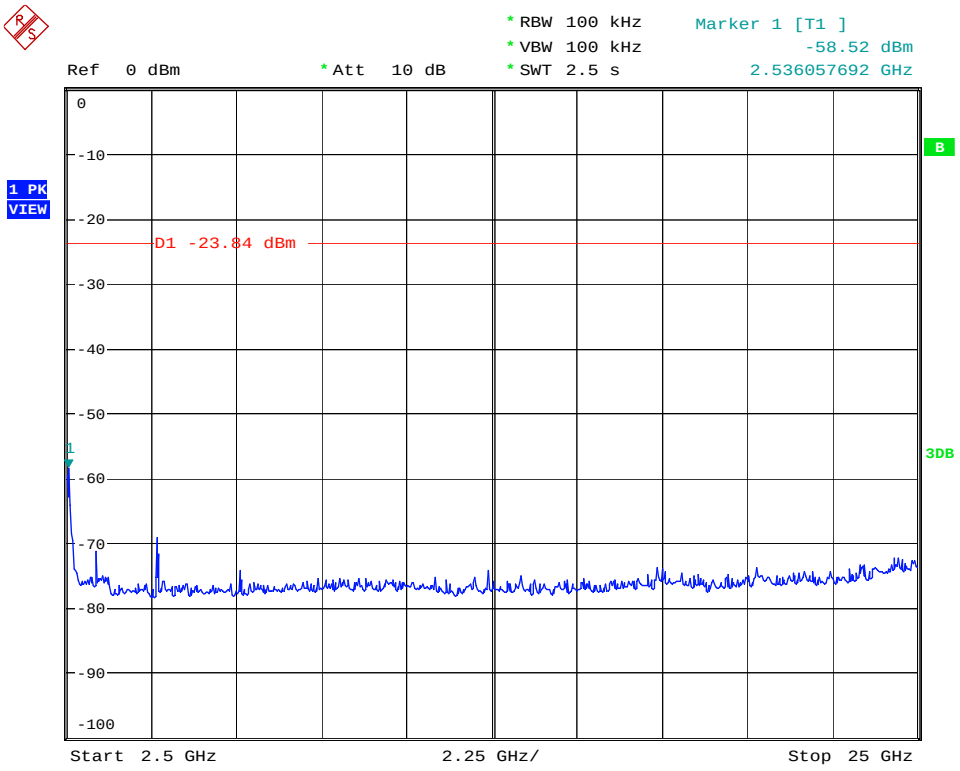
Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 03





Modulation Standard: 802.11n HT40 (270Mbps), Ant2
Channel: 09





9.6 Restrict Band Emission Measurement Data

Test Date: Feb. 17, 2009 Temperature: 23℃

Atmospheric pressure: 1005 hPa Humidity: 67%

Modulation Standard: IEEE 802.11b (11Mbps)

Channel 1										Fundamental Frequency: 2412 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2388.13	H	57.48	-2.33	55.16	Peak	74	54	-18.84	228	1.38
2389.97	H	44.10	-2.32	41.78	Ave	74	54	-12.22	228	1.38
2389.46	V	61.64	-2.32	59.32	Peak	74	54	-14.68	133	1.00
2389.87	V	49.06	-2.32	46.74	Ave	74	54	-7.26	133	1.00
Channel 11										Fundamental Frequency: 2462 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2483.81	H	56.50	-1.96	54.54	Peak	74	54	-19.46	211	1.00
2483.85	H	43.82	-1.96	41.86	Ave	74	54	-12.14	211	1.00
2483.36	V	66.10	-1.96	64.14	Peak	74	54	-9.86	127	1.17
2483.58	V	53.36	-1.96	51.40	Ave	74	54	-2.60	127	1.17

Modulation Standard: IEEE 802.11g (54Mbps)

Channel 1										Fundamental Frequency: 2412 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2388.54	H	56.94	-2.32	54.62	Peak	74	54	-19.38	217	1.00
2389.97	H	43.93	-2.32	41.62	Ave	74	54	-12.38	217	1.00
2389.97	V	62.16	-2.32	59.85	Peak	74	54	-14.15	180	1.11
2389.97	V	46.98	-2.32	44.66	Ave	74	54	-9.34	180	1.11
Channel 11										Fundamental Frequency: 2462 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2483.85	H	57.05	-1.96	55.09	Peak	74	54	-18.91	215	1.00
2483.66	H	43.89	-1.96	41.93	Ave	74	54	-12.07	215	1.00
2485.67	V	60.52	-1.95	58.57	Peak	74	54	-15.43	232	1.00
2483.62	V	47.89	-1.96	45.93	Ave	74	54	-8.07	232	1.00

Modulation Standard: IEEE 802.11n HT20 (130Mbps)

Channel 1										Fundamental Frequency: 2412 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2349.07	H	57.57	-2.47	55.10	Peak	74	54	-18.90	220	1.36
2389.97	H	44.21	-2.32	41.89	Ave	74	54	-12.11	220	1.36
2389.76	V	67.65	-2.32	65.33	Peak	74	54	-8.67	184	1.00
2389.97	V	49.22	-2.32	46.90	Ave	74	54	-7.10	184	1.00
Channel 11										Fundamental Frequency: 2462 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2485.83	H	57.26	-1.95	55.30	Peak	74	54	-18.70	214	1.00
2483.77	H	44.10	-1.96	42.14	Ave	74	54	-11.86	214	1.00
2483.58	V	67.21	-1.96	65.25	Peak	74	54	-8.75	235	1.00
2483.66	V	49.94	-1.96	47.98	Ave	74	54	-6.02	227	1.00

Modulation Standard: IEEE 802.11n HT40 (270Mbps)

Channel 3										Fundamental Frequency: 2422 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2389.76	H	58.24	-2.32	55.92	Peak	74	54	-18.08	227	1.11
2389.76	H	44.32	-2.32	42.00	Ave	74	54	-12.00	227	1.11
2387.72	V	71.69	-2.33	69.37	Peak	74	54	-4.63	0	1.12
2389.66	V	55.80	-2.32	53.48	Ave	74	54	-0.52	0	1.12
Channel 9										Fundamental Frequency: 2452 MHz
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)	Table Deg.	Ant High (m)
						Peak	Ave			
2484.12	H	59.25	-1.96	57.29	Peak	74	54	-16.71	214	1.00
2484.61	H	45.57	-1.96	43.61	Ave	74	54	-10.39	214	1.00
2485.18	V	67.12	-1.96	65.16	Peak	74	54	-8.84	238	1.16
2484.72	V	52.46	-1.96	50.51	Ave	74	54	-3.49	238	1.16

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.

10. Restricted Bands of Operation

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

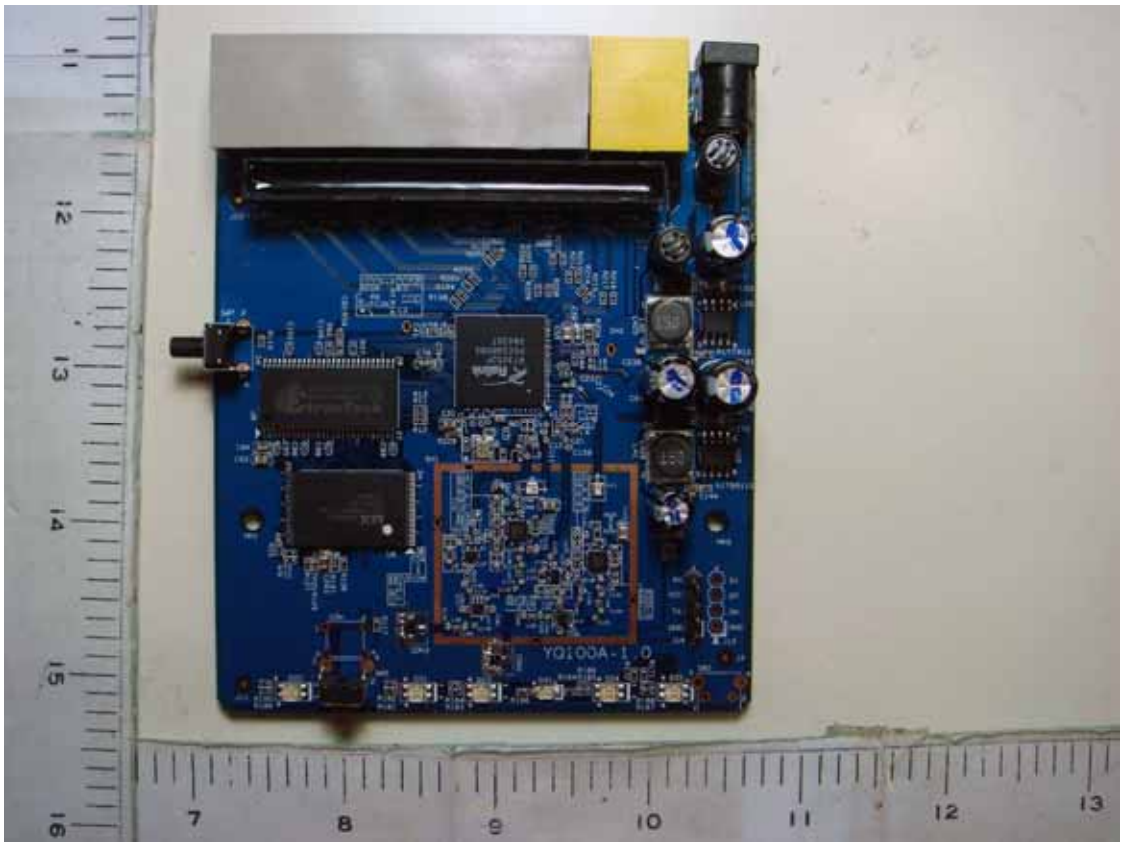
MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775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

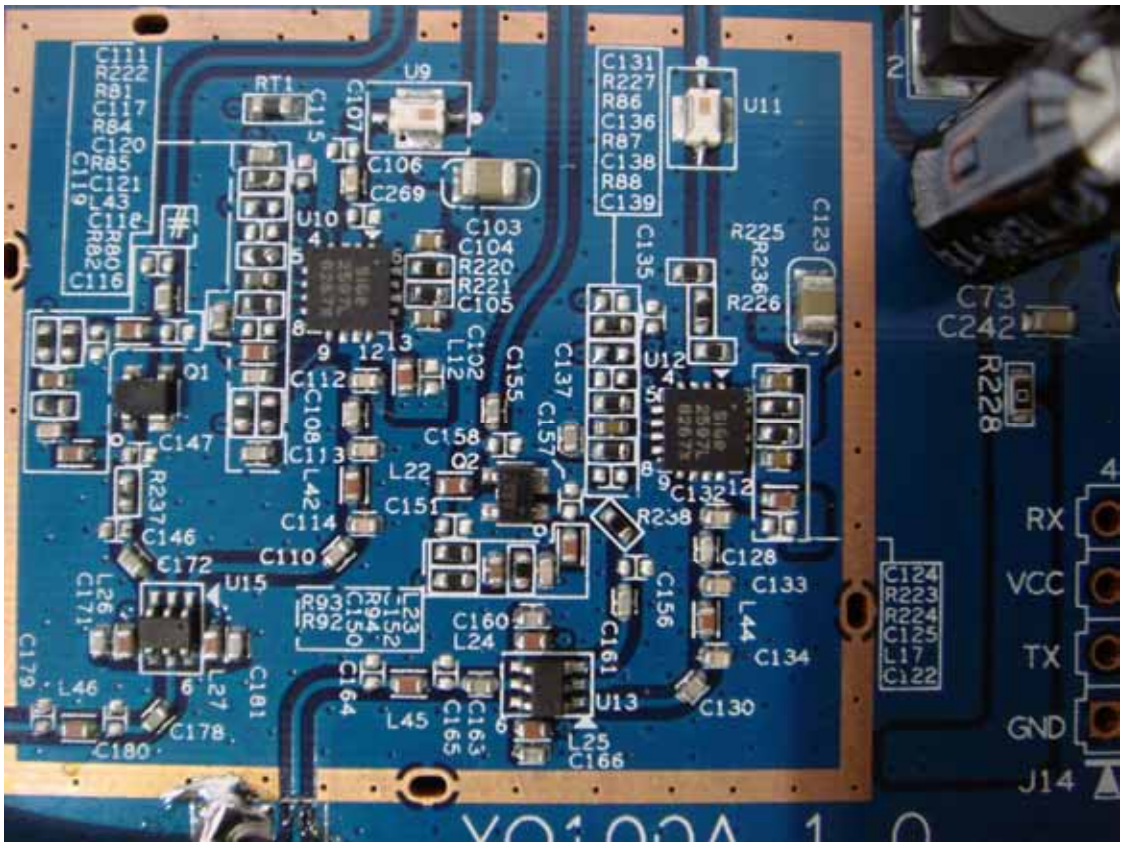
**: Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

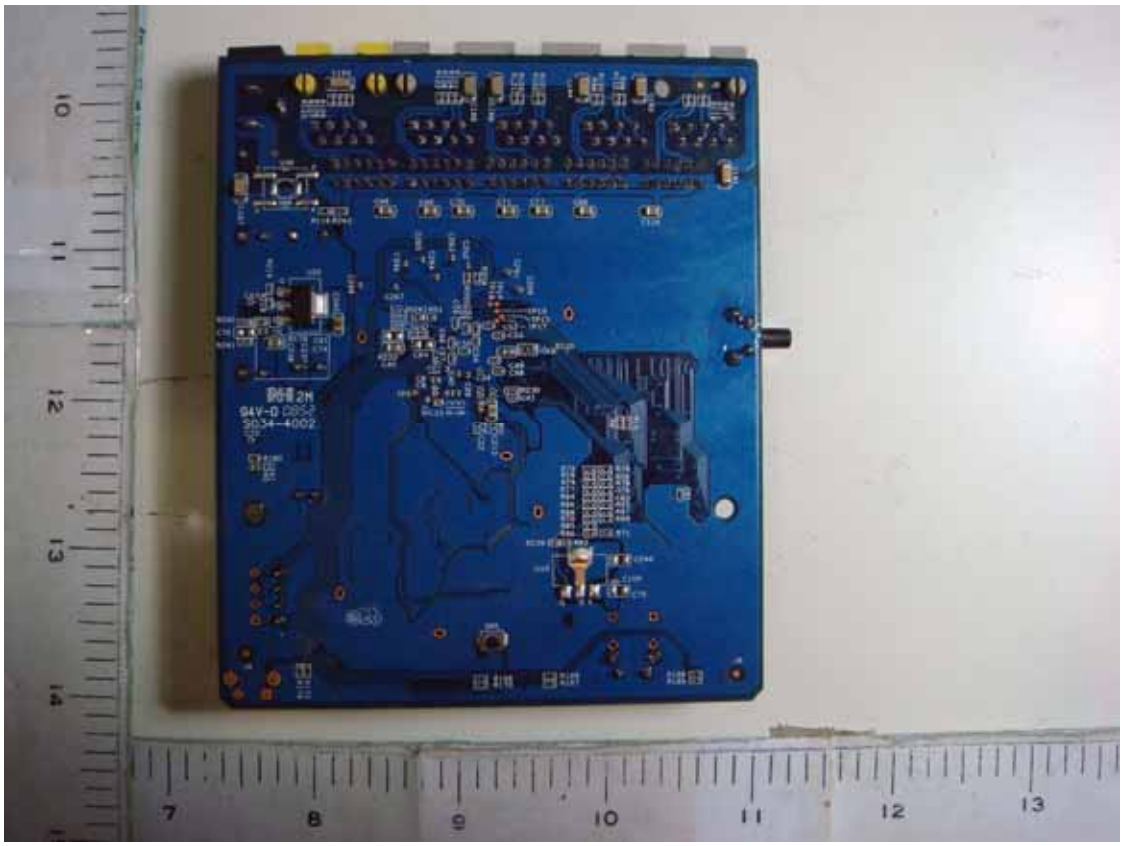
10.1 Labeling Requirement

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

Appendix A. Photographs of EUT




RX
VCC
TX
GND
J14




LEADER ELECTRONICS INC.
I.T.E. POWER SUPPLY
DESIGN NO.:MT12-Y1120-A64S
MODEL NO.:MT12-Y120100-A1
INPUT:120V~ 60Hz 0.3A
OUTPUT:12V⎓ 1A
Efficiency Level: IV
Patented
c UL us
LISTED
3G74
E138754
LEI-6
RoHS
MADE IN CHINA EL