

FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

Applicant	Belkin Corporation
Address	501 West Walnut Street, Compton CA 90220, USA
Equipment	N1 Desktop Card
Model No.	F5D8001
FCC ID	K7SF5D8001
Trade Name	Belkin

Laboratory Accreditation



1332

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

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CERTIFICATE OF COMPLIANCE

according to

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Part 15 Subpart C

Applicant	Belkin Corporation
Address	501 West Walnut Street, Compton CA 90220, USA
Equipment	N1 Desktop Card
Model No.	F5D8001
FCC ID	K7SF5D8001

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 (2003)**.

The test was carried out on Sep. 18, 2006 at **Exclusive Certification Corp.**

Signature



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

Test engineer: Jerry

2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

- **Wireless roaming with a laptop around the home or office**
Offers the freedom of networking without cables
- **Connection rates of up to 300Mbps**
- **Compatibility with 802.11g and 802.11b products**
- **Difficult-to-wire environments**
Enables networking in buildings with solid or finished walls, or open areas where wiring is difficult to install
- **Frequently changing environments**
Adapts easily in offices or environments that frequently rearrange or change locations
- **Temporary LANs for special projects or peak time**
Sets up temporary networks such as at trade shows, exhibitions, and construction sites, which need networks on a short-term basis; also companies who need additional workstations for a peak activity period
- **SOHO (Small Office/Home Office) networking needs**
Provides the easy and quick, small network installation SOHO users need

2.2 RF Specifications

Spreading 802.11b: DSSS, CCK, QPSK, BPSK 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency Range 802.11b/g: 2.4 ~ 2.472 GHz
Number of Channels USA, Canada and Taiwan: 1 ~ 11 Most European Countries: 1 ~ 13
Data Rate 802.11b: 11, 5.5, 2, 1 Mbs 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11g MIMO: 7.22 ~ 300 Mbps
Modulation 802.11g: OFDM 802.11b: CCK, DQPSK, DBPSK
Antenna Dipole Antenna Left antenna (Peak gain): 1.1 dBi Middle antenna (Peak gain): 1.2 dBi Right antenna (Peak gain): 1.4 dBi
Transmit Power FCC: 802.11b: 17 dBm 802.11g: 14 dBm 802.11g MIMO : 16.5 dBm ETSI: (EIRP) 802.11b: 16 dBm 802.11g: 13 dBm 802.11g MIMO : 15.5 dBm

2.3 Test Mode and Test Software

The following test mode and test software was performed for conduction and radiation test:

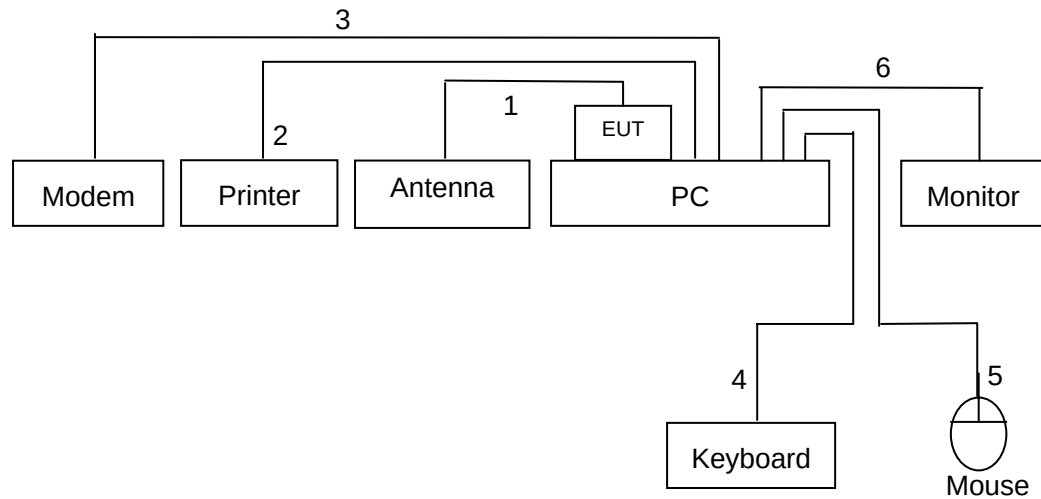
- 802.11b (CH LO: 2412MHz) • 802.11b (CH MID: 2437MHz) • 802.11b (CH HI: 2462MHz)
- 802.11g (CH LO: 2412MHz) • 802.11g (CH MID: 2437MHz) • 802.11g (CH HI: 2462MHz)
- 802.11g MIMO:
CH LO: 2412MHz, CH MID: 2437MHz, CH HI: 2462MHz
- 802.11g MIMO+CB:
CH LO: 2422MHz, CH MID: 2437MHz, CH HI: 2452MHz
- An executive programs, "DutApiClient_Pci.exe" Application under WIN XP.
- Test mode 1: 802.11b (11Mbps)
- Test mode 2: 802.11g (54 Mbps)
- Test mode 3: 802.11 MIMO (144 Mbps)
- Test mode 4: 802.11 MIMO+CB (300 Mbps)

Note: All the transmitter rates had been pre-tested, and the test data is worst case

2.4 Description of Test System

Device	Manufacturer	Model No.	Description
PC	IBM	IGV	Power Cable, Unshielding 1.8 m
Monitor	SlimAGE	510A	Power Cable, Adapter Unshielding 1.8 m Data Cable, VGA Shielding 1.35 m
Keyboard	IBM	KB-0225	Data Cable, PS2 Shielding 1.85 m
Mouse	IBM	MO28VO	Data Cable, USB Shielding 1.85 m
Modem	ACEXX	DM-1414	Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 Shielding 1.35 m
Printer	HP	Desk Jet400	Power Cable, Adapter Unshielding 1.8 m Data Cable, PRINT Shielding 1.6 m

2.5 Connection Diagram of Test System



1. The I/O cable is connected from EUT to the Antenna
2. The I/O cable is connected from PC to the Printer
3. The I/O cable is connected from PC to the Modem
4. The I/O cable is connected from PC to the Keyboard
5. The I/O cable is connected from PC to the Mouse
6. The I/O cable is connected from PC to the Monitor

2.6 General Information of Test

Test Site:	Exclusive Certification Corp. 4F-2, No. 28, Lane 78, Xing-Ai Rd. Nei-hu, Taipei City 114 Taiwan R.O.C.
Test Site Location (OATS1-SD):	No.68-1, Shihbachongsi, shihding Township, Taipei City 223, Taiwan, R.O.C.
Registration Number:	632249
Test Voltage:	AC 120V/ 60Hz
Test in Compliance with:	ANSI C63.4-2003 FCC Part 15 Subpart C
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 24620MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

2.7 History of this test report

ORIGINAL.

3. Antenna Requirements

3.1 Standard Applicable

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

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

3.2 Antenna Construction and Directional Gain

Antenna type: Reverse SMA Dipole Antenna

Left Antenna Gain (Peak) : 1.1 dBi.

Middle Antenna Gain (Peak) : 1.2 dBi.

Right Antenna Gain (Peak) : 1.4 dBi.

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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.

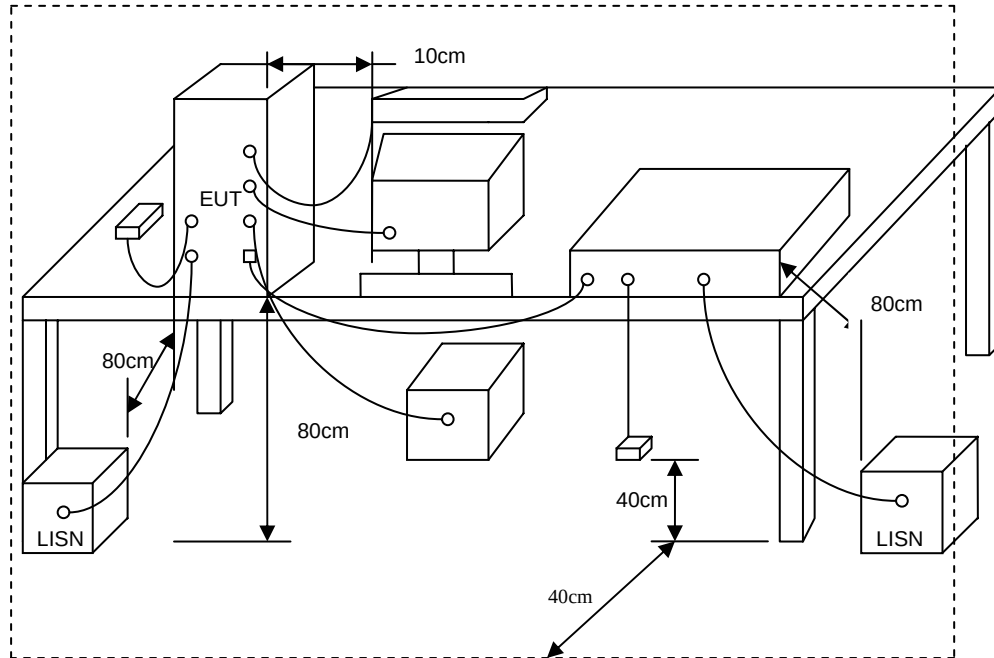
Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- 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

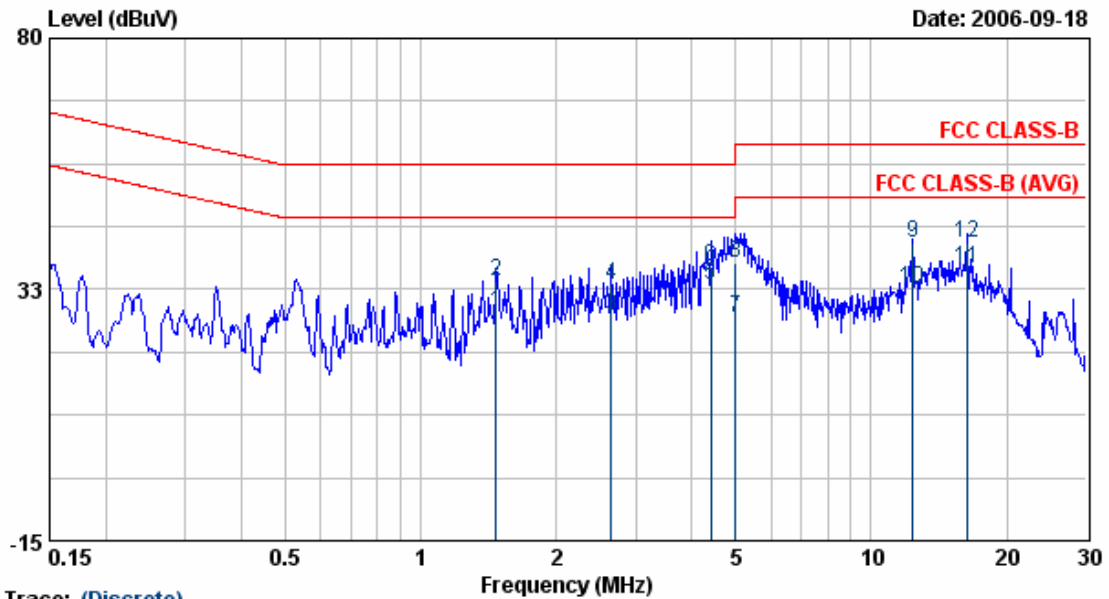
Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date
Receiver	SCR3501	Schaffner	437	2006/11/03
LISN	NNB-2/16Z	MESS TEC	02/10191	2007/03/30
LISN	NNB-2/16Z	ROLF HEINE	03/10058	2007/04/26

4.5 Test Result and Data

Test Mode 1,2:

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : 802.11g CH1
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 56 %



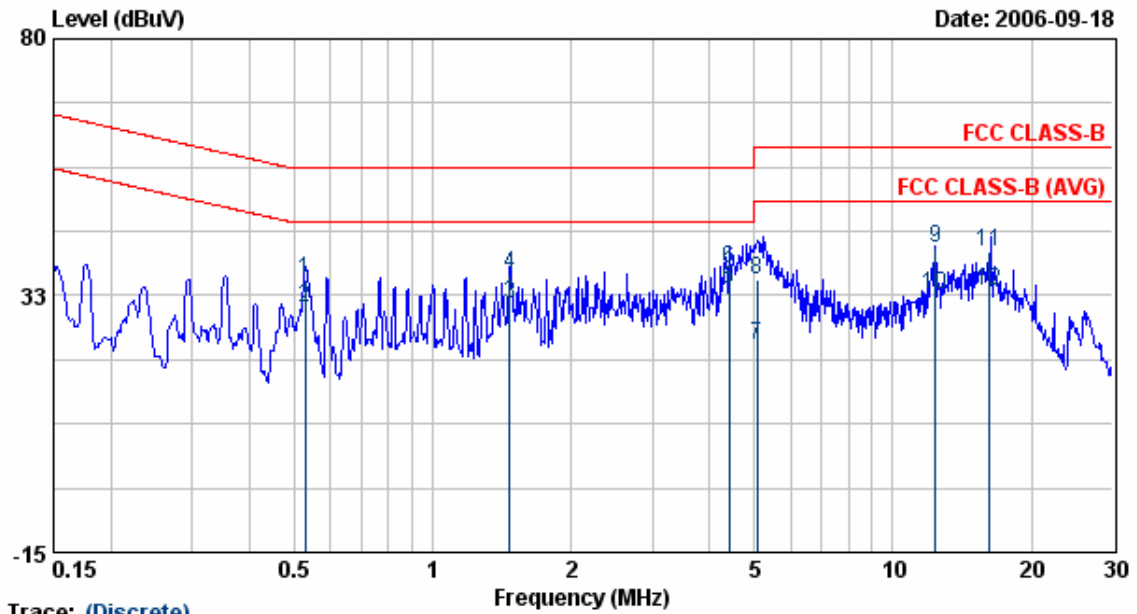
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	1.47	27.87	0.46	28.33	46.00	-17.67	AVERAGE
2	1.47	33.76	0.46	34.22	56.00	-21.78	QP
3	2.65	26.99	0.54	27.53	46.00	-18.47	AVERAGE
4	2.65	32.73	0.54	33.27	56.00	-22.73	QP
5	4.41	32.83	0.60	33.43	46.00	-12.57	AVERAGE
6	4.41	36.11	0.60	36.71	56.00	-19.29	QP
7	5.01	26.47	0.60	27.07	50.00	-22.93	AVERAGE
8	5.01	36.97	0.60	37.57	60.00	-22.43	QP
9	12.38	40.48	0.71	41.19	60.00	-18.81	QP
10	12.38	31.86	0.71	32.57	50.00	-17.43	AVERAGE
11	16.27	35.84	0.77	36.61	50.00	-13.39	AVERAGE
12	16.27	40.41	0.77	41.18	60.00	-18.82	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.

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : 802.11g CH1
 Memo :

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 56 %



Trace: (Discrete)

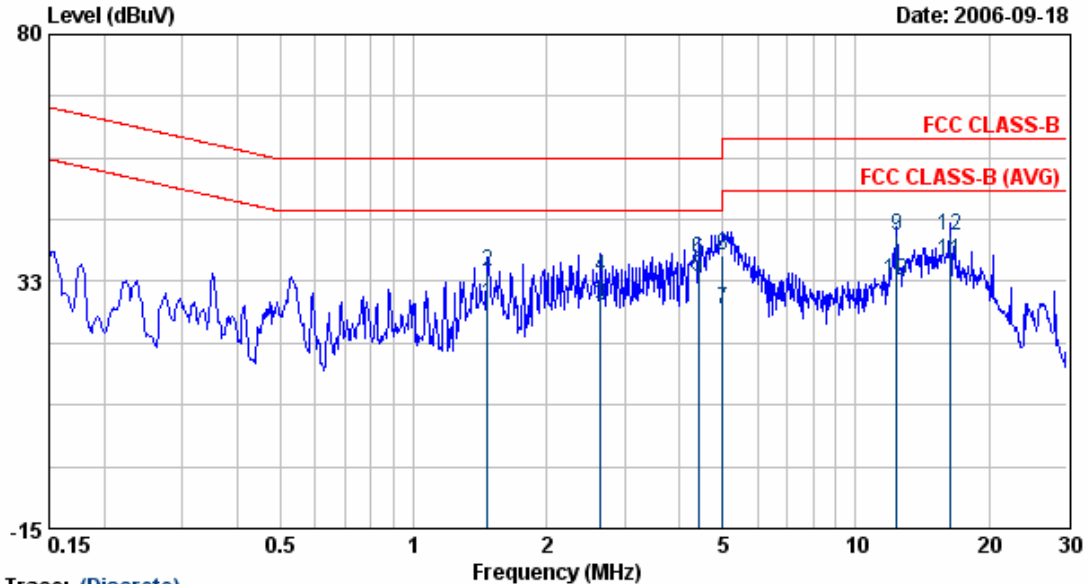
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.53	34.93	0.50	35.43	56.00	-20.57	QP
2	0.53	29.67	0.50	30.17	46.00	-15.83	AVERAGE
3	1.47	30.30	0.56	30.86	46.00	-15.14	AVERAGE
4	1.47	35.98	0.56	36.54	56.00	-19.46	QP
5	4.41	33.16	0.60	33.76	46.00	-12.24	AVERAGE
6	4.41	36.77	0.60	37.37	56.00	-18.63	QP
7	5.08	22.65	0.60	23.25	50.00	-26.75	AVERAGE
8	5.08	34.91	0.60	35.51	60.00	-24.49	QP
9	12.38	40.58	0.71	41.29	60.00	-18.71	QP
10	12.38	31.98	0.71	32.69	50.00	-17.31	AVERAGE
11	16.26	39.87	0.72	40.59	60.00	-19.41	QP
12	16.26	32.54	0.72	33.26	50.00	-16.74	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.

Test Mode 3:

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : 802.11MIMO CH1
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 56 %



Trace: (Discrete)

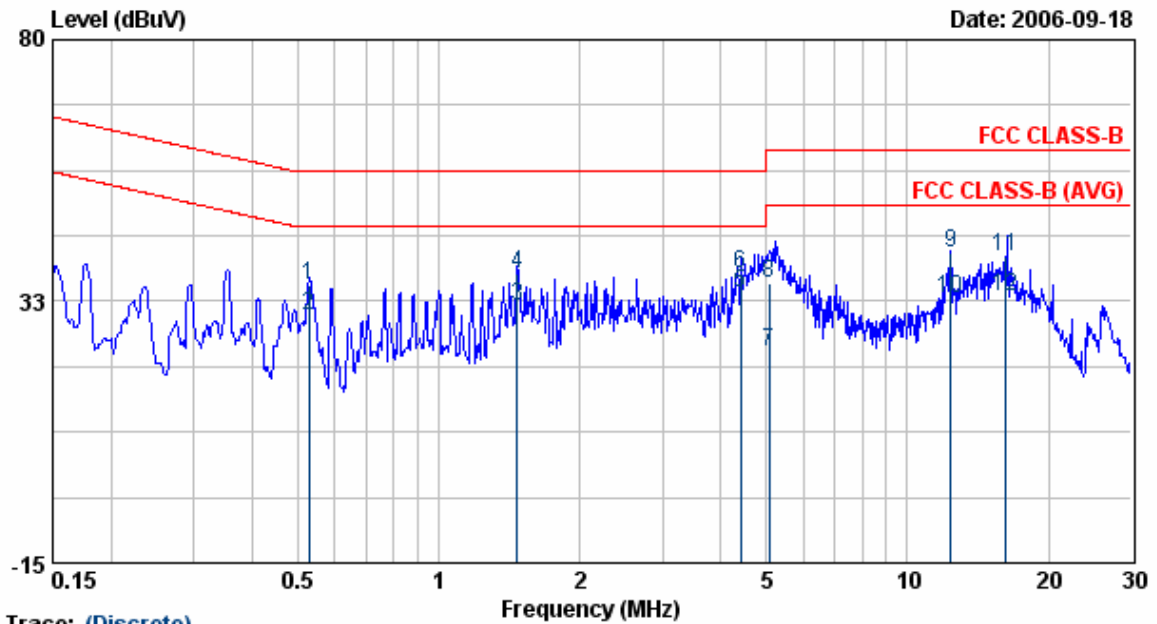
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	1.47	27.80	0.46	28.26	46.00	-17.74	AVERAGE
2	1.47	33.79	0.46	34.25	56.00	-21.75	QP
3	2.65	27.36	0.54	27.90	46.00	-18.10	AVERAGE
4	2.65	32.70	0.54	33.24	56.00	-22.76	QP
5	4.41	32.80	0.60	33.40	46.00	-12.60	AVERAGE
6	4.41	36.37	0.60	36.97	56.00	-19.03	QP
7	5.01	26.53	0.60	27.13	50.00	-22.87	AVERAGE
8	5.01	36.90	0.60	37.50	60.00	-22.50	QP
9	12.38	40.62	0.71	41.33	60.00	-18.67	QP
10	12.38	31.80	0.71	32.51	50.00	-17.49	AVERAGE
11	16.27	35.57	0.77	36.34	50.00	-13.66	AVERAGE
12	16.27	40.40	0.77	41.17	60.00	-18.83	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.

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : 802.11MIMO CH1
 Memo :

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 56 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.53	34.90	0.50	35.40	56.00	-20.60	QP
2	0.53	29.52	0.50	30.02	46.00	-15.98	AVERAGE
3	1.47	31.21	0.56	31.77	46.00	-14.23	AVERAGE
4	1.47	36.98	0.56	37.54	56.00	-18.46	QP
5	4.41	33.38	0.60	33.98	46.00	-12.02	AVERAGE
6	4.41	36.87	0.60	37.47	56.00	-18.53	QP
7	5.08	22.60	0.60	23.20	50.00	-26.80	AVERAGE
8	5.08	35.04	0.60	35.64	60.00	-24.36	QP
9	12.38	40.56	0.71	41.27	60.00	-18.73	QP
10	12.38	32.25	0.71	32.96	50.00	-17.04	AVERAGE
11	16.26	39.80	0.72	40.52	60.00	-19.48	QP
12	16.26	32.59	0.72	33.31	50.00	-16.69	AVERAGE

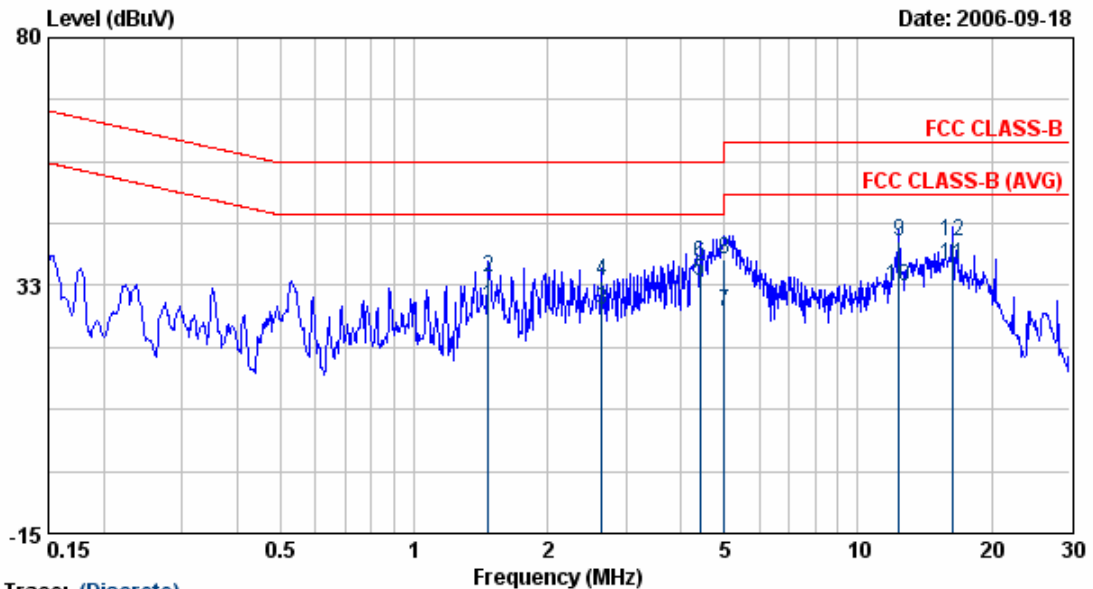
Remarks:

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.

Test Mode 4:

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : 802.11MIMO+CB CH3
 Memo :

Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 56 %



Trace: (Discrete)

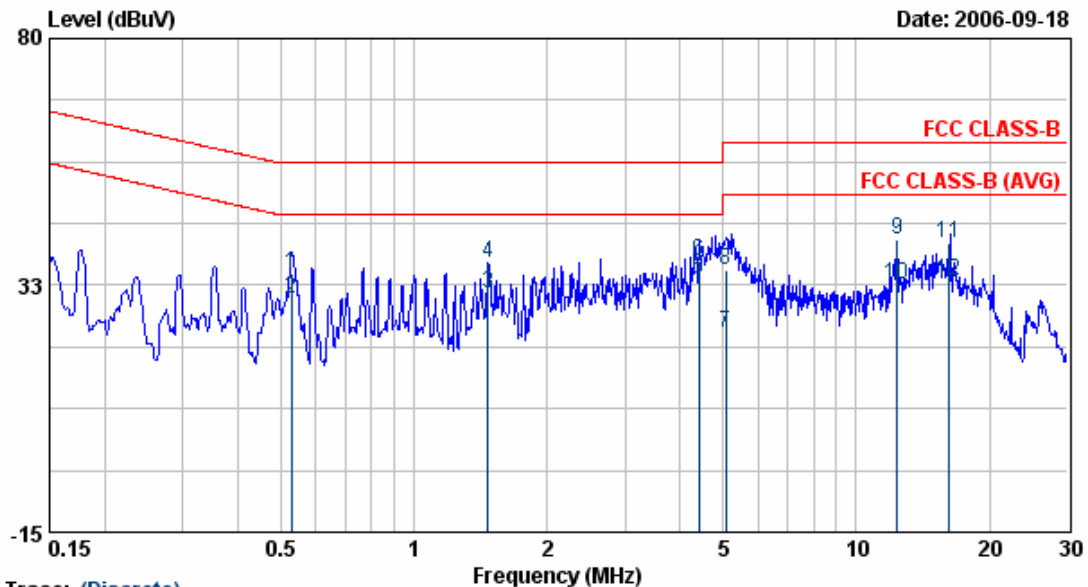
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	1.47	27.94	0.46	28.40	46.00	-17.60	AVERAGE
2	1.47	33.76	0.46	34.22	56.00	-21.78	QP
3	2.65	27.16	0.54	27.70	46.00	-18.30	AVERAGE
4	2.65	32.74	0.54	33.28	56.00	-22.72	QP
5	4.41	32.67	0.60	33.27	46.00	-12.73	AVERAGE
6	4.41	36.18	0.60	36.78	56.00	-19.22	QP
7	5.01	26.85	0.60	27.45	50.00	-22.55	AVERAGE
8	5.01	36.90	0.60	37.50	60.00	-22.50	QP
9	12.38	40.43	0.71	41.14	60.00	-18.86	QP
10	12.38	31.75	0.71	32.46	50.00	-17.54	AVERAGE
11	16.27	35.80	0.77	36.57	50.00	-13.43	AVERAGE
12	16.27	40.21	0.77	40.98	60.00	-19.02	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.

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : 802.11MIMO+CB CH3
 Memo :

Pol/Phase : LINE
 Temperature : 25 °C
 Humidity : 56 %



Trace: (Discrete)

Item	Freq	Read	Factor	Result	Limit	Margin	Remark
	MHz	dBuV	dB	dBuV	dBuV	dBuV	
1	0.53	34.36	0.50	34.86	56.00	-21.14	QP
2	0.53	29.50	0.50	30.00	46.00	-16.00	AVERAGE
3	1.47	30.45	0.56	31.01	46.00	-14.99	AVERAGE
4	1.47	36.11	0.56	36.67	56.00	-19.33	QP
5	4.41	33.19	0.60	33.79	46.00	-12.21	AVERAGE
6	4.41	36.70	0.60	37.30	56.00	-18.70	QP
7	5.08	22.62	0.60	23.22	50.00	-26.78	AVERAGE
8	5.08	34.90	0.60	35.50	60.00	-24.50	QP
9	12.38	40.50	0.71	41.21	60.00	-18.79	QP
10	12.38	31.85	0.71	32.56	50.00	-17.44	AVERAGE
11	16.26	39.83	0.72	40.55	60.00	-19.45	QP
12	16.26	32.50	0.72	33.22	50.00	-16.78	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.

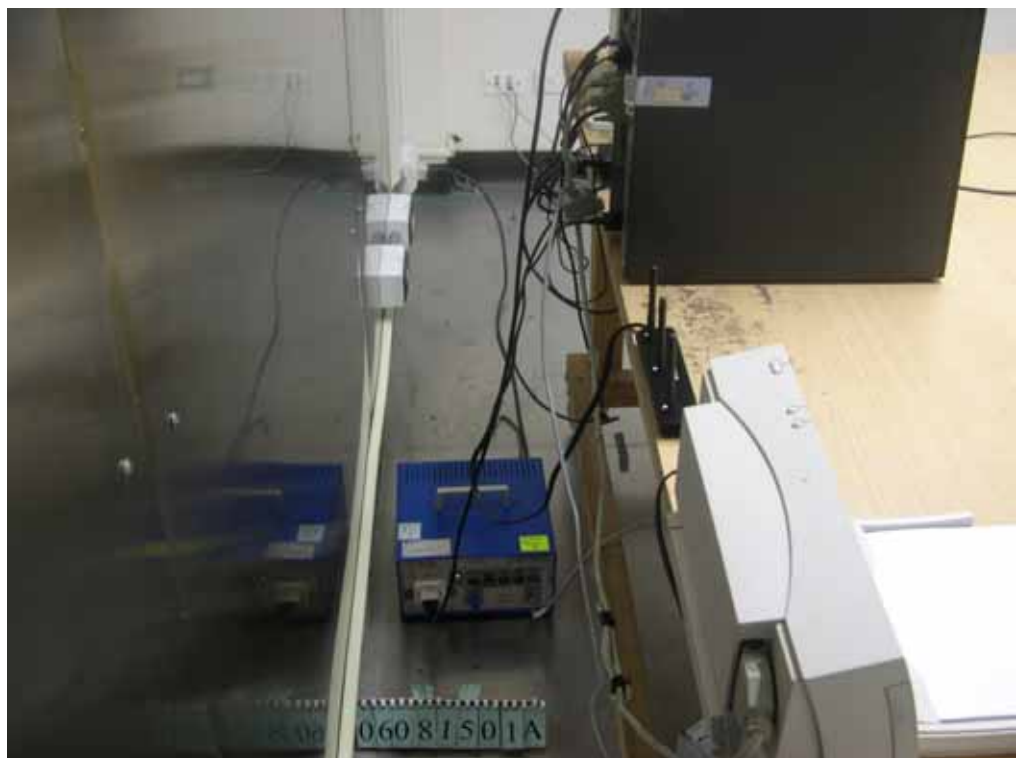
Test engineer: Ben

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

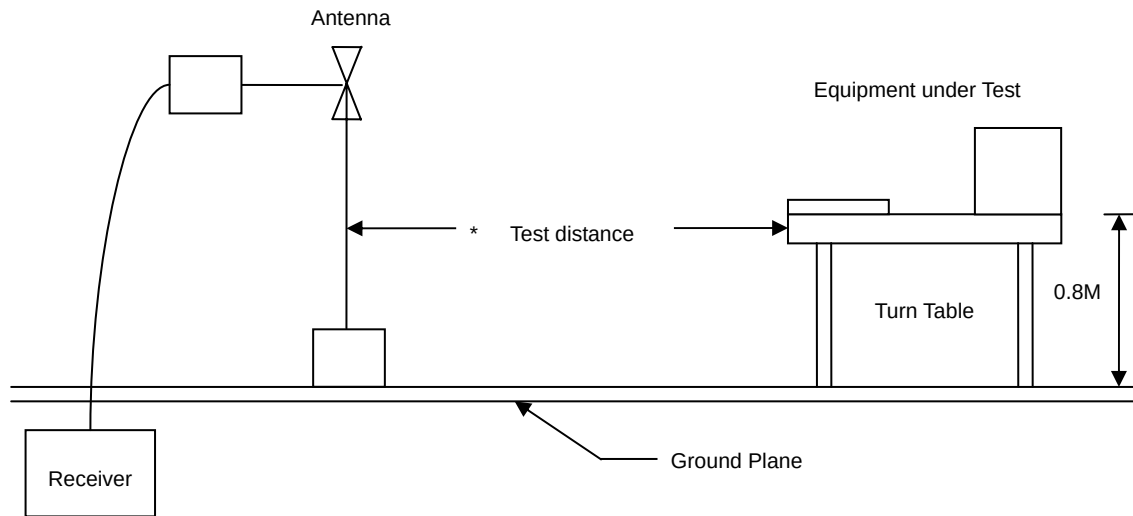
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

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

5.2 Test Procedures

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

5.3 Typical Test Setup



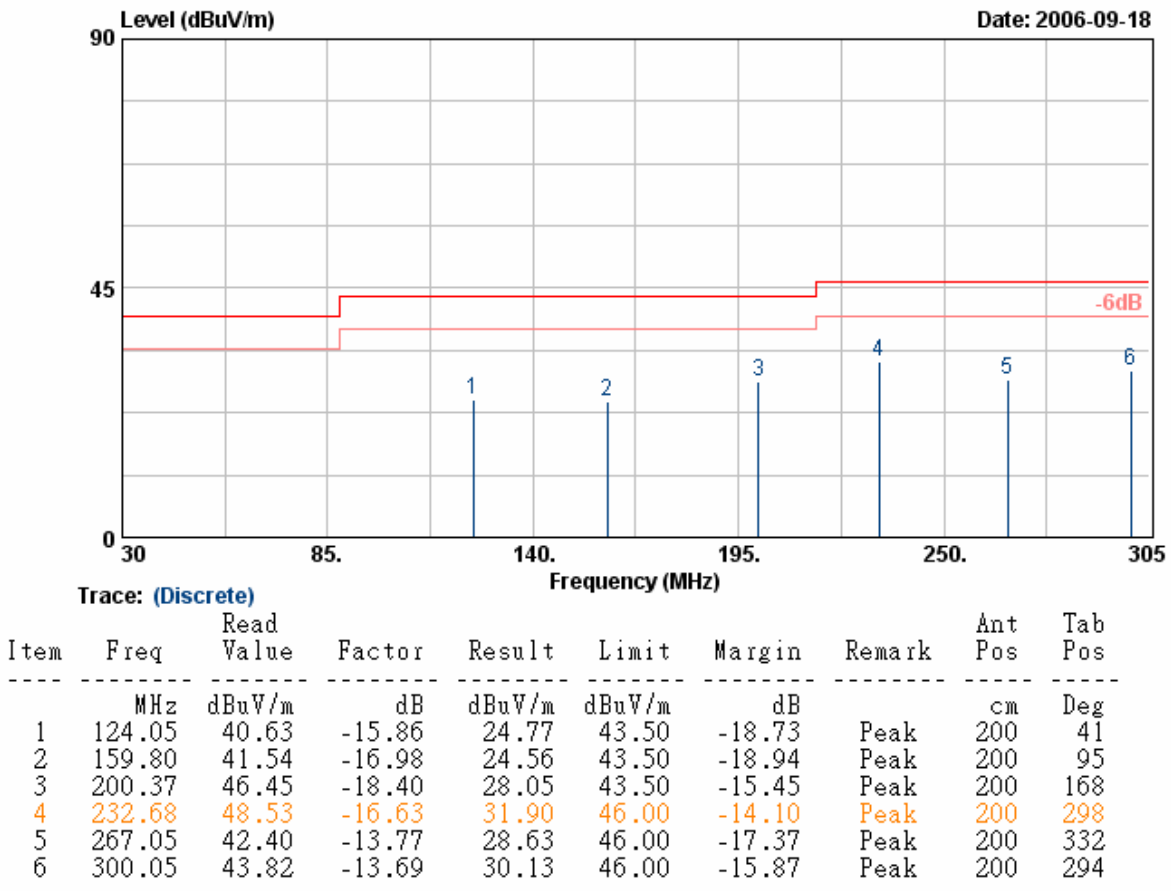
5.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date
EMI Receiver	8546A	HP	3807A00454	2007/05/11
Spectrum Analyzer	FSP40	R&S	10047	2007/01/16
Horn Antenna	3115	EMCO	31589	2007/02/12
Horn Antenna	3116	EMCO	31970	2007/02/09
Bilog Antenna	CBL6112B	Schaffner	2840	2007/04/19
Amplifier	8449B	Agilent	3008A01954	2007/01/08
Amplifier	8447D	Agilent	2944A10593	2007/02/23

5.5 Test Result and Data

Test Mode 1,2:

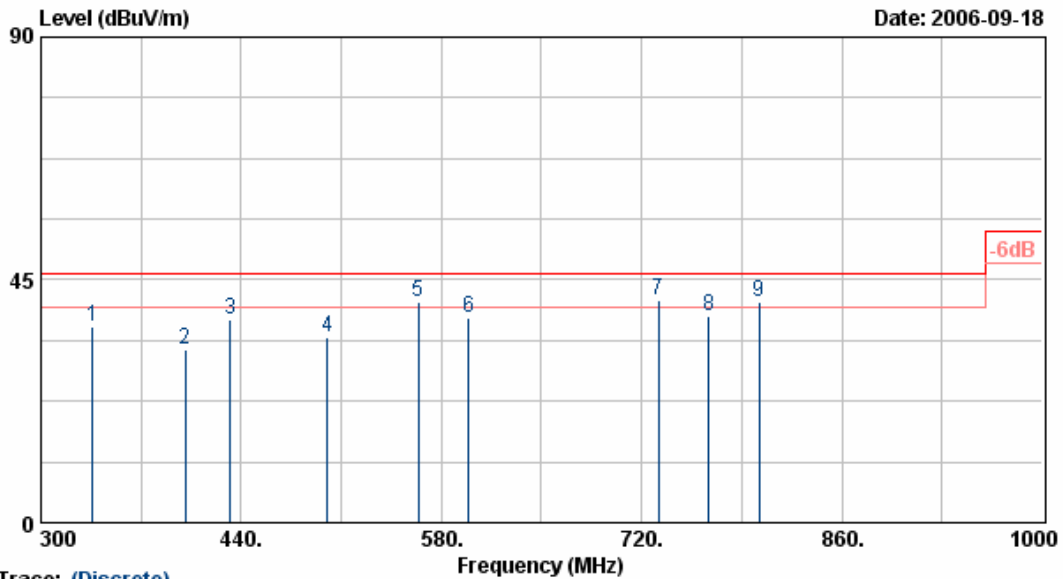
EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 1	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11g		
Rate	: 54 Mbps		
Memo	:		



Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 1	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11g		
Rate	: 54 Mbps		
Memo	:		



Trace: (Discrete)

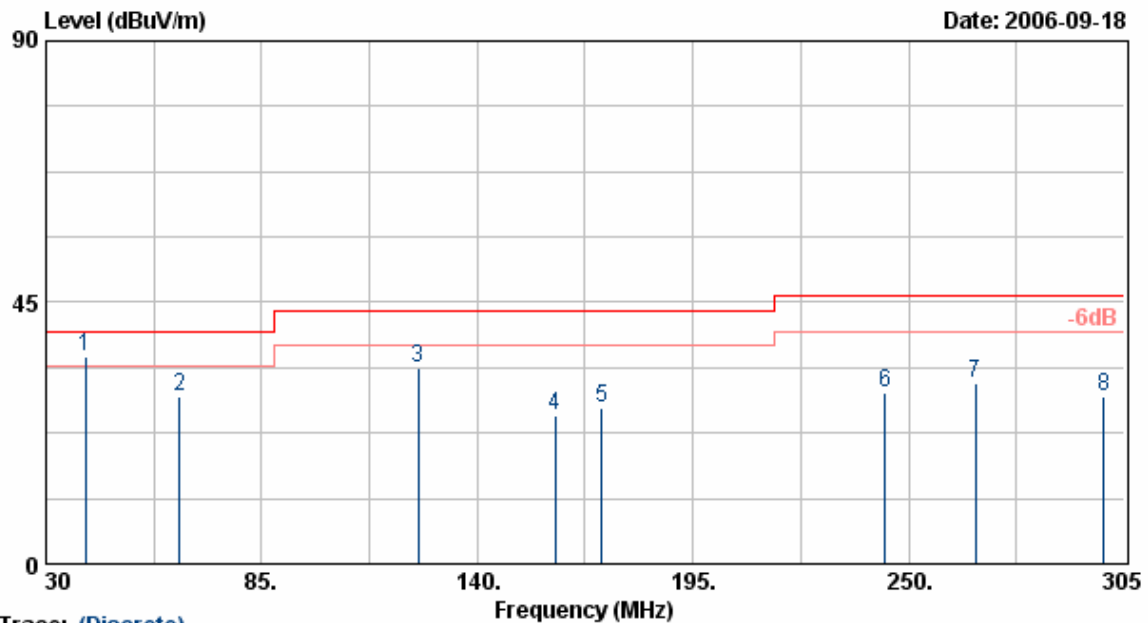
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	336.40	48.95	-12.51	36.44	46.00	-9.56	Peak	200	187
2	400.80	42.75	-10.60	32.15	46.00	-13.85	Peak	200	318
3	432.16	46.95	-9.40	37.55	46.00	-8.45	Peak	200	352
4	500.00	41.66	-7.18	34.48	46.00	-11.52	Peak	200	360
5	563.90	45.87	-5.12	40.75	46.00	-5.25	QP	200	360
6	598.90	42.72	-4.73	37.99	46.00	-8.01	Peak	200	54
7	731.90	43.86	-2.51	41.35	46.00	-4.65	QP	200	89
8	766.90	40.48	-2.15	38.33	46.00	-7.67	Peak	200	89
9	801.90	43.45	-2.43	41.02	46.00	-4.98	QP	200	97

Notes:

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

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 54 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 67 %
 Atmospheric Pressure: 1009 hPa



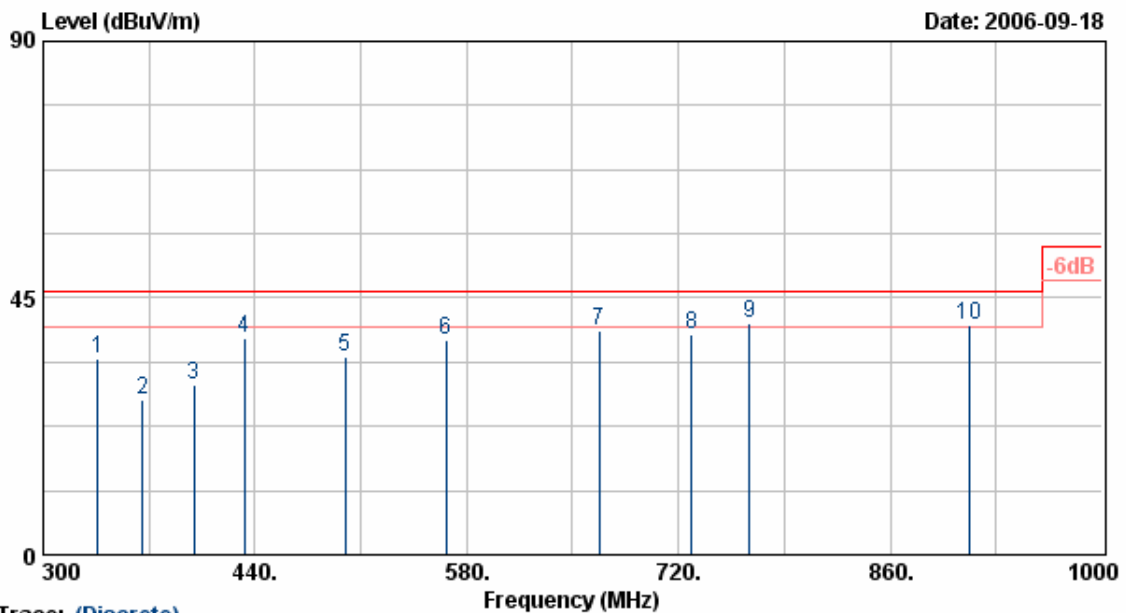
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	39.98	48.63	-13.09	35.54	40.00	-4.46	QP	100	63
2	63.98	50.21	-21.40	28.81	40.00	-11.19	Peak	100	96
3	124.98	49.68	-15.90	33.78	43.50	-9.72	Peak	100	121
4	159.95	42.47	-16.98	25.49	43.50	-18.01	Peak	100	214
5	171.70	44.82	-17.96	26.86	43.50	-16.64	Peak	100	214
6	244.10	44.72	-15.23	29.49	46.00	-16.51	Peak	100	47
7	267.10	44.79	-13.78	31.01	46.00	-14.99	Peak	100	66
8	299.88	42.51	-13.69	28.82	46.00	-17.18	Peak	100	151

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 1	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11g		
Rate	: 54 Mbps		
Memo	:		



Trace: (Discrete)

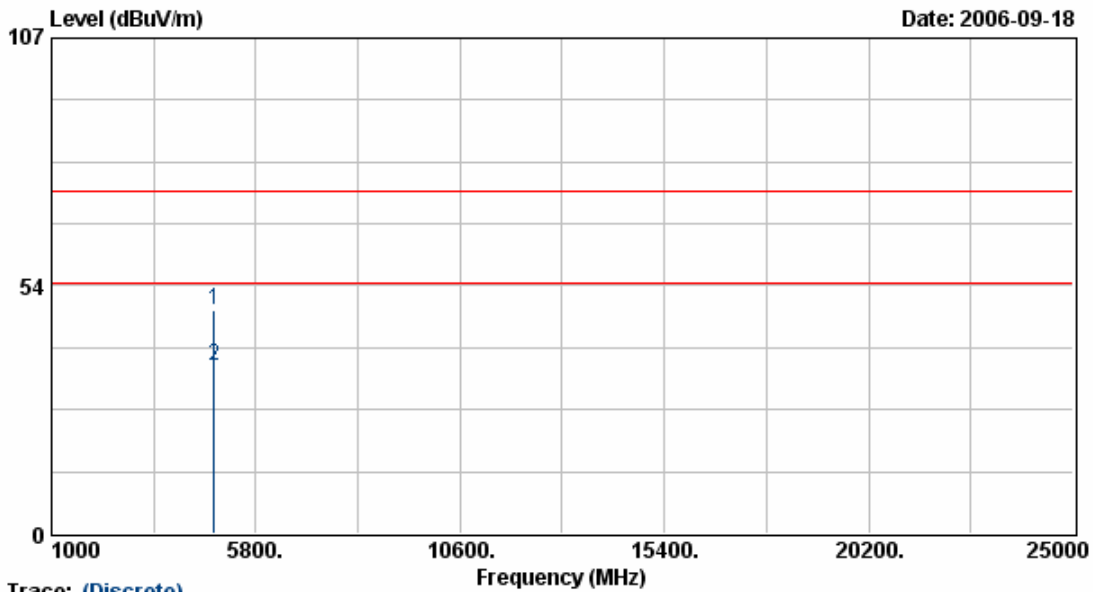
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	336.40	46.85	-12.51	34.34	46.00	-11.66	Peak	100	50
2	365.80	38.74	-11.62	27.12	46.00	-18.88	Peak	100	114
3	399.95	40.26	-10.63	29.63	46.00	-16.37	Peak	100	121
4	433.00	47.44	-9.37	38.07	46.00	-7.93	Peak	100	86
5	499.88	41.97	-7.19	34.78	46.00	-11.22	Peak	100	226
6	566.48	42.66	-5.09	37.57	46.00	-8.43	Peak	100	258
7	667.75	42.84	-3.73	39.11	46.00	-6.89	Peak	100	336
8	728.95	41.35	-2.59	38.76	46.00	-7.24	Peak	100	284
9	766.90	42.68	-2.15	40.53	46.00	-5.47	QP	100	314
10	912.80	41.00	-0.65	40.35	46.00	-5.65	QP	100	314

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo :

Pol/Phase : HORIZONTAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa

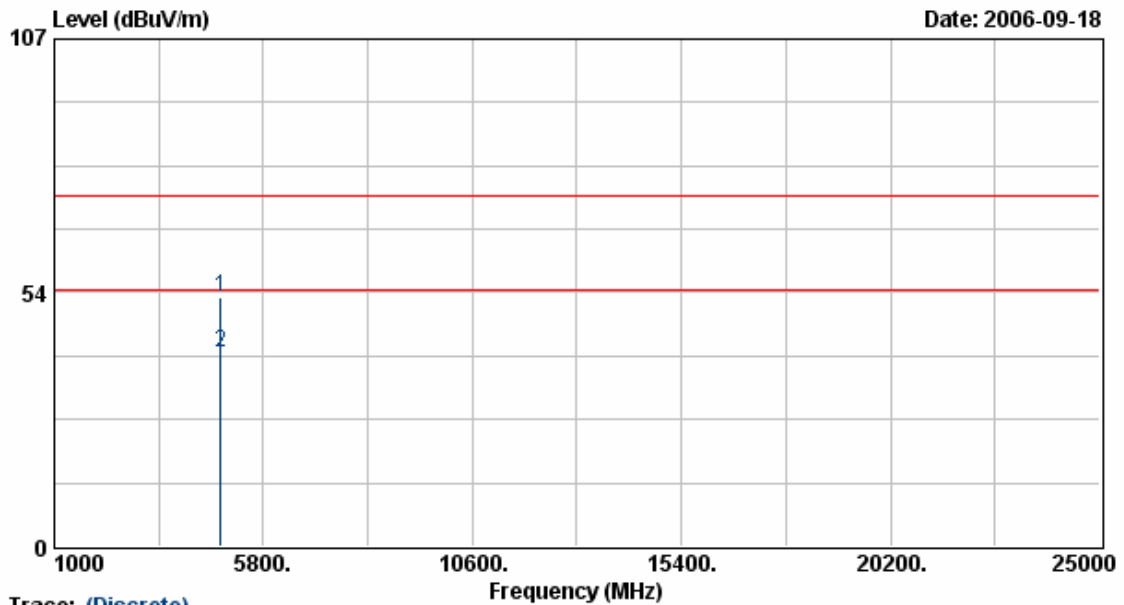


Trace: (Discrete)									
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.99	42.36	5.71	48.07	74.00	-25.93	Peak	100	224
2	4823.99	30.57	5.71	36.28	54.00	-17.72	Average	100	224

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11b		
Rate	: 11 Mbps		
Memo	:		



Trace: (Discrete)

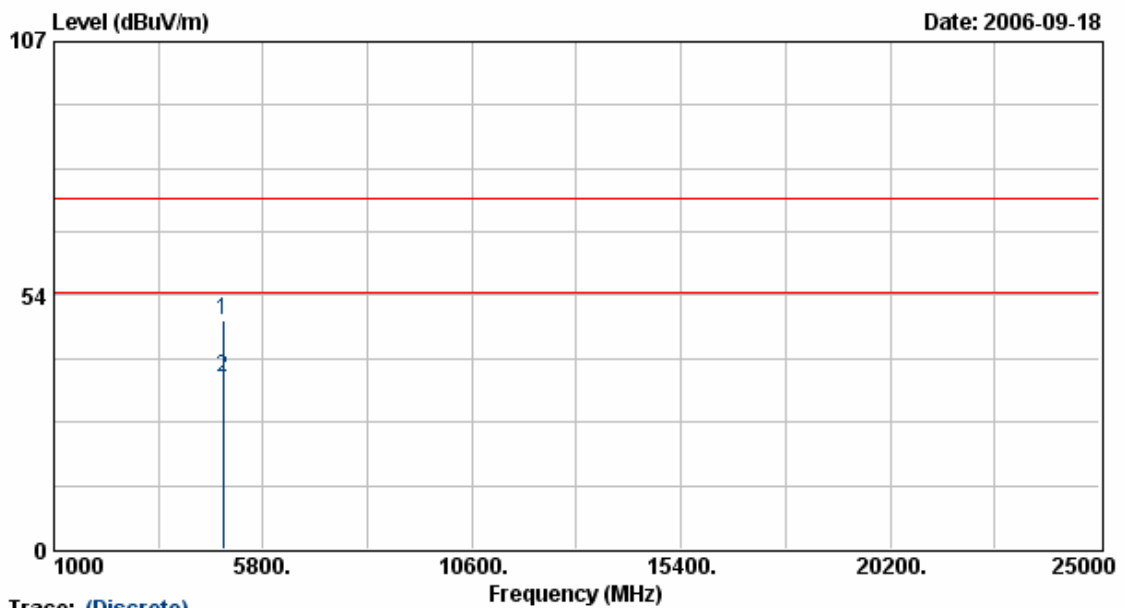
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.88	46.84	5.71	52.55	74.00	-21.45	Peak	100	205
2	4823.88	35.11	5.71	40.82	54.00	-13.18	Average	100	205

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo :

Pol/Phase : HORIZONTAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



Trace: (Discrete)

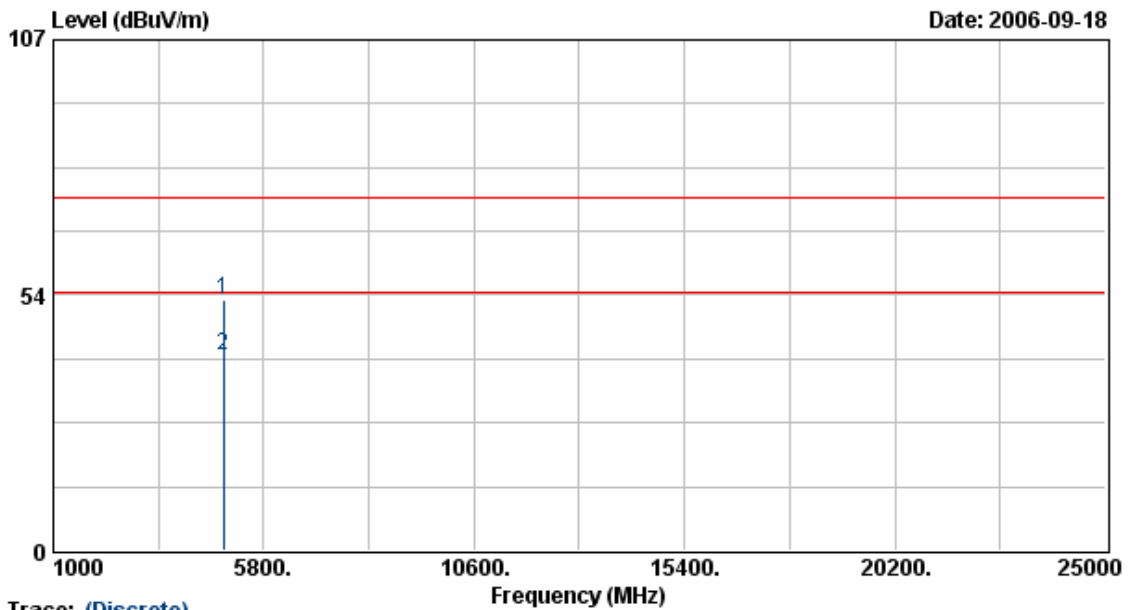
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	42.32	5.85	48.17	74.00	-25.83	Peak	100	224
2	4874.00	30.50	5.85	36.35	54.00	-17.65	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure : 1010 hPa



Trace: (Discrete)

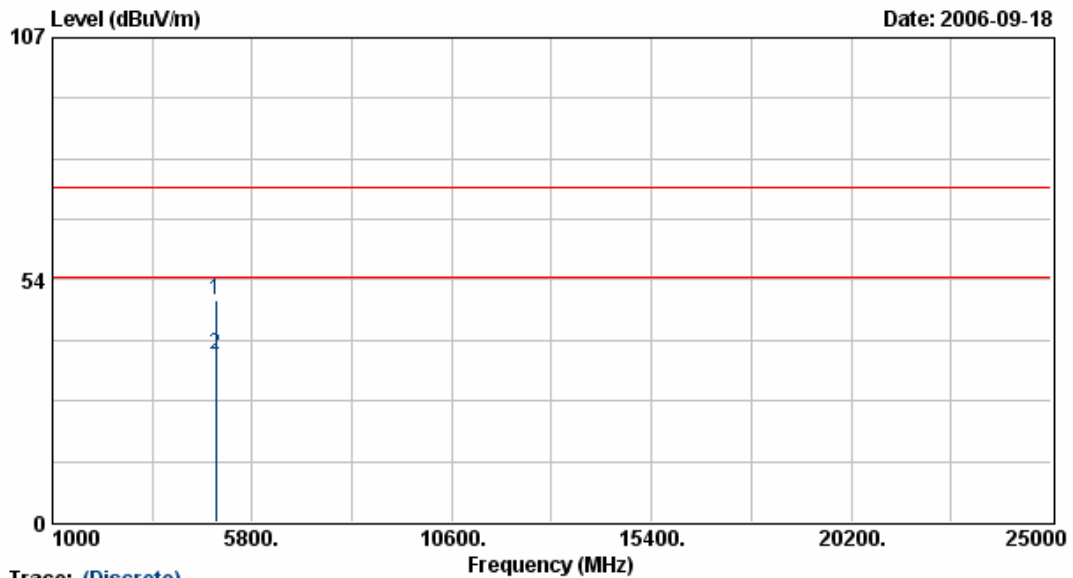
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.95	46.52	5.85	52.37	74.00	-21.63	Peak	100	205
2	4873.95	35.01	5.85	40.86	54.00	-13.14	Average	100	205

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo :

Pol/Phase : HORIZONTAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



Trace: (Discrete)

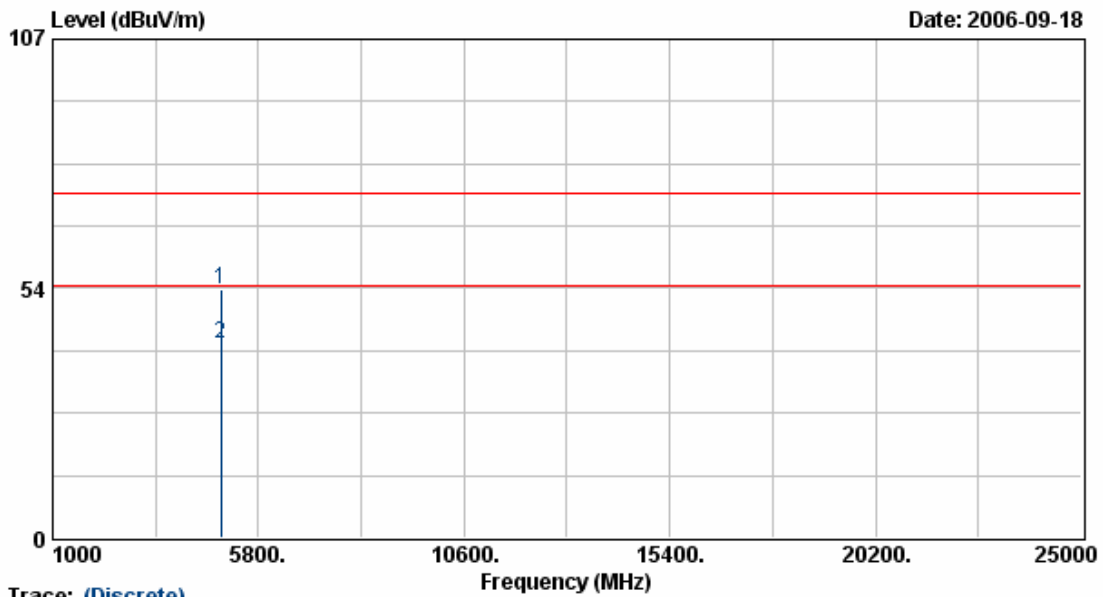
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	42.85	5.99	48.84	74.00	-25.16	Peak	100	224
2	4924.00	31.02	5.99	37.01	54.00	-16.99	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel : 11
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



Trace: (Discrete)

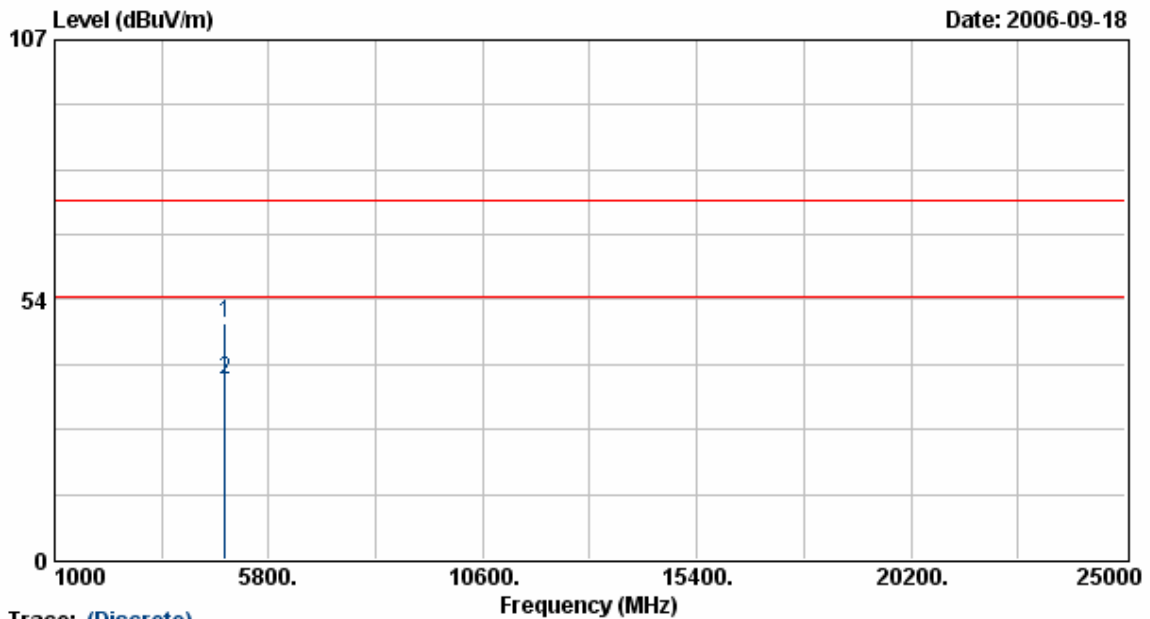
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	47.40	5.99	53.39	74.00	-20.61	Peak	100	205
2	4924.00	35.65	5.99	41.64	54.00	-12.36	Average	100	205

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 54 Mbps
 Memo :

Pol/Phase : HORIZONTAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



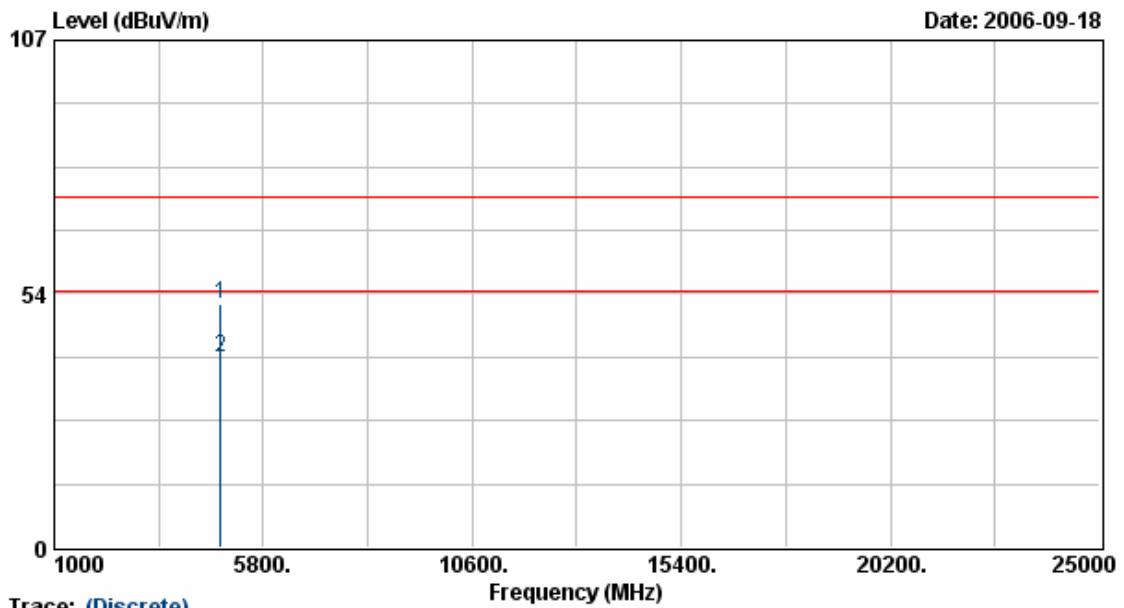
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4824.00	42.86	5.71	48.57	74.00	-25.43	Peak	100	224
2	4824.00	31.14	5.71	36.85	54.00	-17.15	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11g
 Rate : 54 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



Trace: (Discrete)

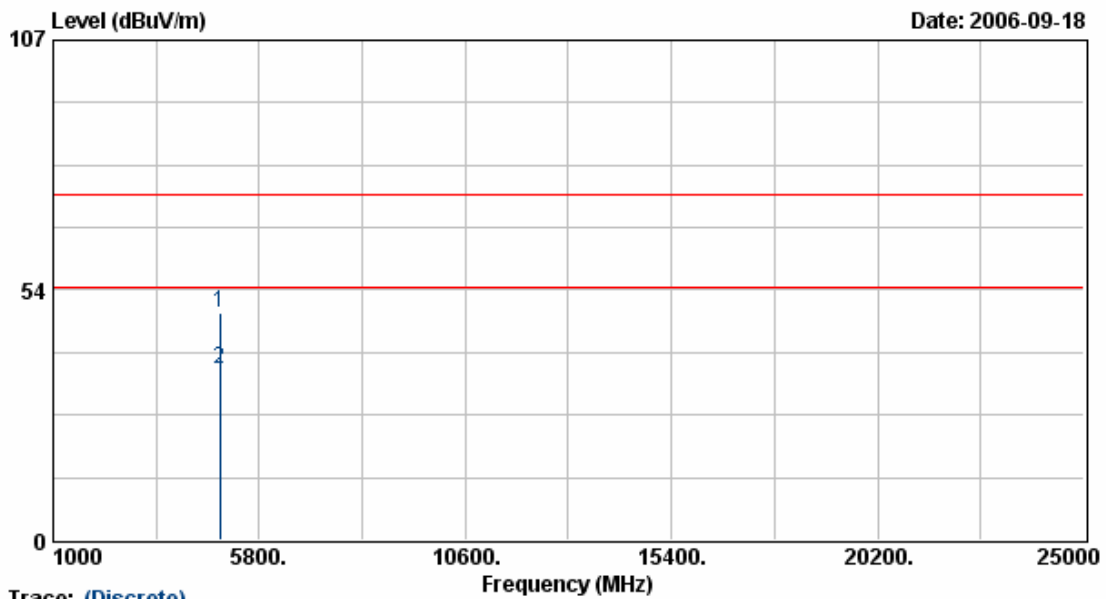
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.98	45.79	5.71	51.50	74.00	-22.50	Peak	100	205
2	4823.98	34.26	5.71	39.97	54.00	-14.03	Average	100	205

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11g
 Rate : 54 Mbps
 Memo :

Pol/Phase : HORIZONTAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure : 1010 hPa



Trace: (Discrete)

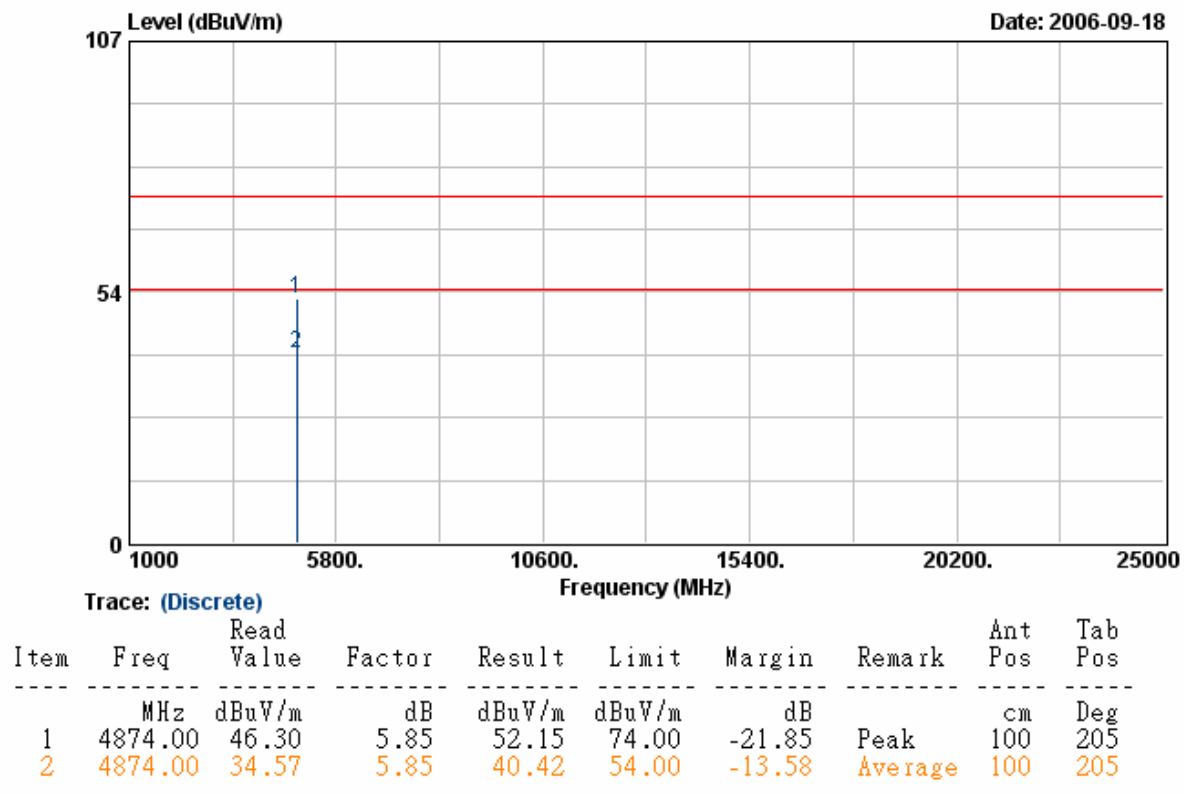
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	42.63	5.85	48.48	74.00	-25.52	Peak	100	224
2	4874.00	30.88	5.85	36.73	54.00	-17.27	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 6
 Modulation Type : 802.11g
 Rate : 54 Mbps
 Memo :

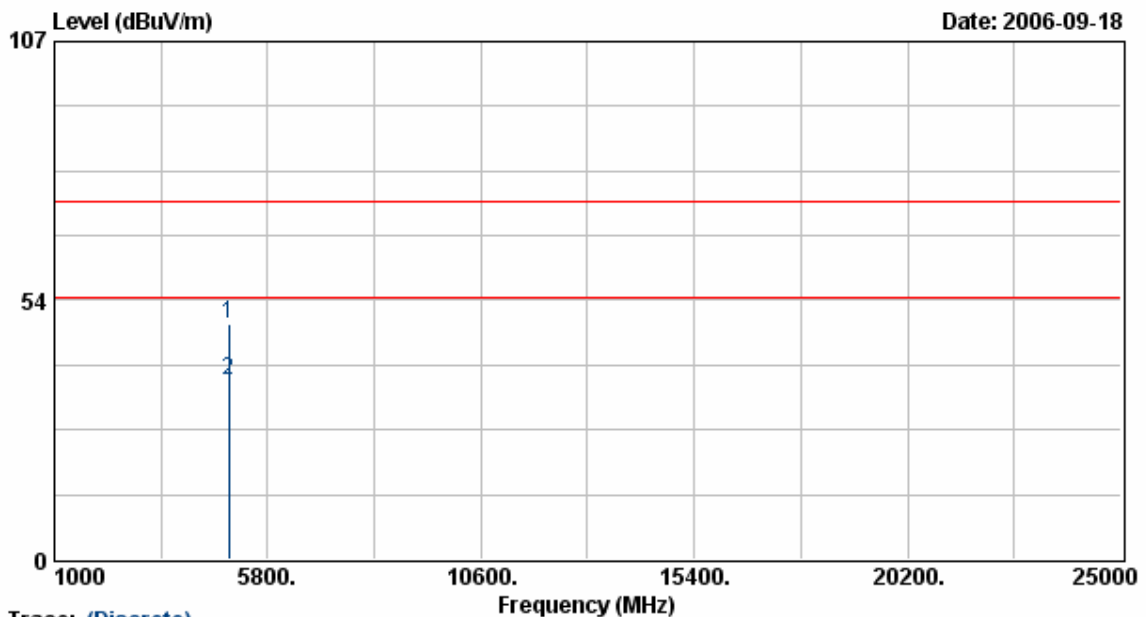
Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11g		
Rate	: 54 Mbps		
Memo	:		



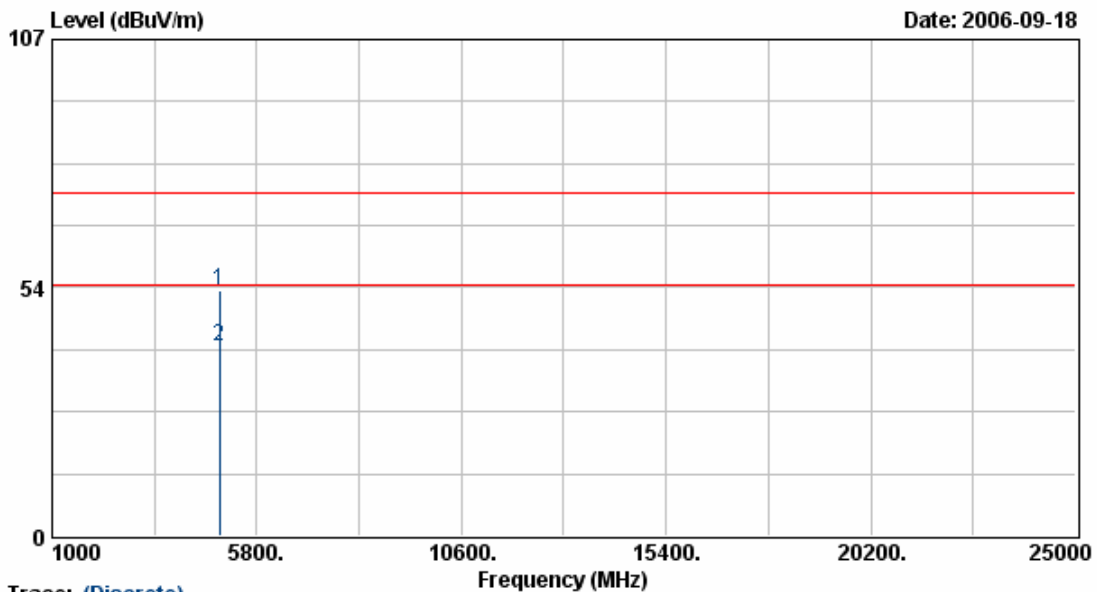
Trace: (Discrete)

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	4923.98	42.73	5.99	48.72	74.00	-25.28	Peak	100	224
2	4923.98	30.94	5.99	36.93	54.00	-17.07	Average	100	224

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11g		
Rate	: 54 Mbps		
Memo	:		



Trace: (Discrete)

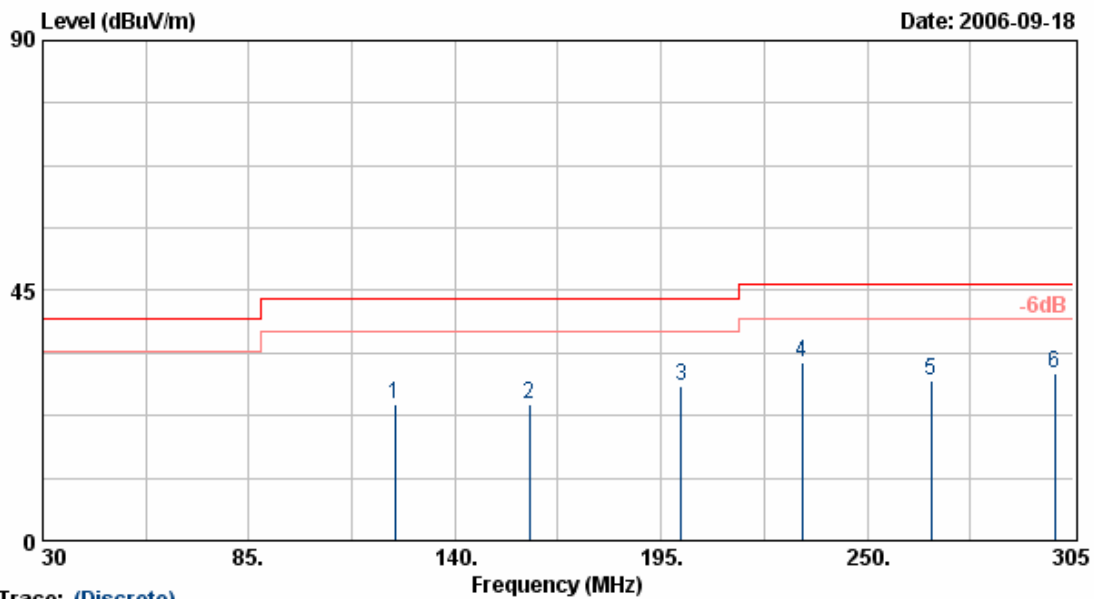
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.03	46.74	5.99	52.73	74.00	-21.27	Peak	100	205
2	4924.03	34.89	5.99	40.88	54.00	-13.12	Average	100	205

Notes:

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

Test Mode 3:

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 1	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11MIMO		
Rate	: 144 Mbps		
Memo	:		



Trace: (Discrete)

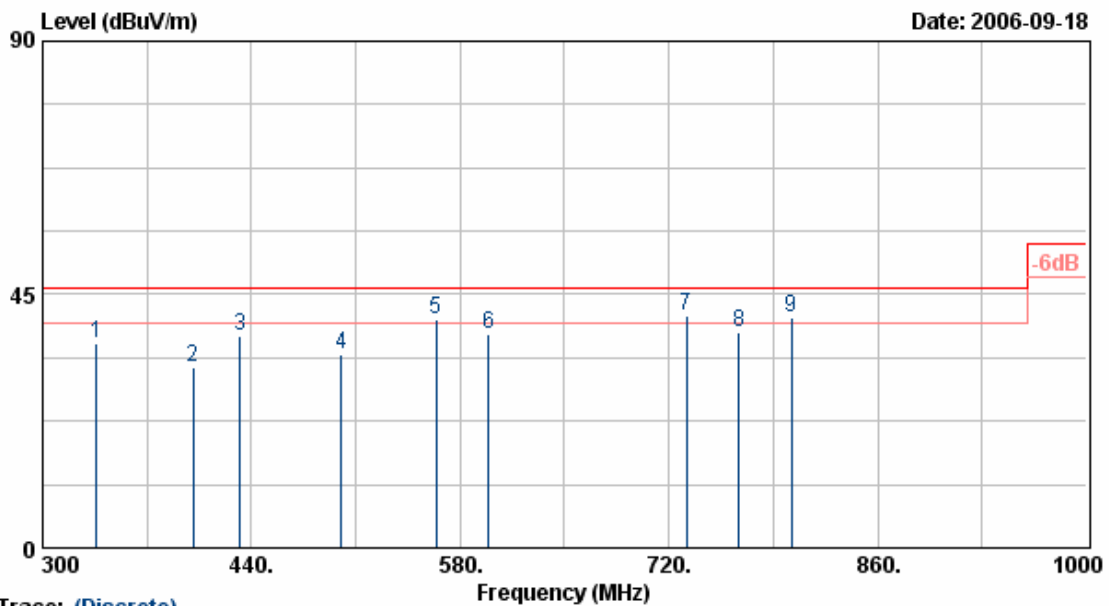
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	124.05	40.42	-15.86	24.56	43.50	-18.94	Peak	200	41
2	159.80	41.50	-16.98	24.52	43.50	-18.98	Peak	200	95
3	200.37	46.36	-18.40	27.96	43.50	-15.54	Peak	200	168
4	232.68	48.59	-16.63	31.96	46.00	-14.04	Peak	200	298
5	267.05	42.49	-13.77	28.72	46.00	-17.28	Peak	200	332
6	300.05	43.76	-13.69	30.07	46.00	-15.93	Peak	200	294

Notes:

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

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : Transmit/Receive
 Operation Channel : 1
 Modulation Type : 802.11MIMO
 Rate : 144 Mbps
 Memo :

Pol/Phase : HORIZONTAL
 Temperature : 27 °C
 Humidity : 67 %
 Atmospheric Pressure : 1009 hPa



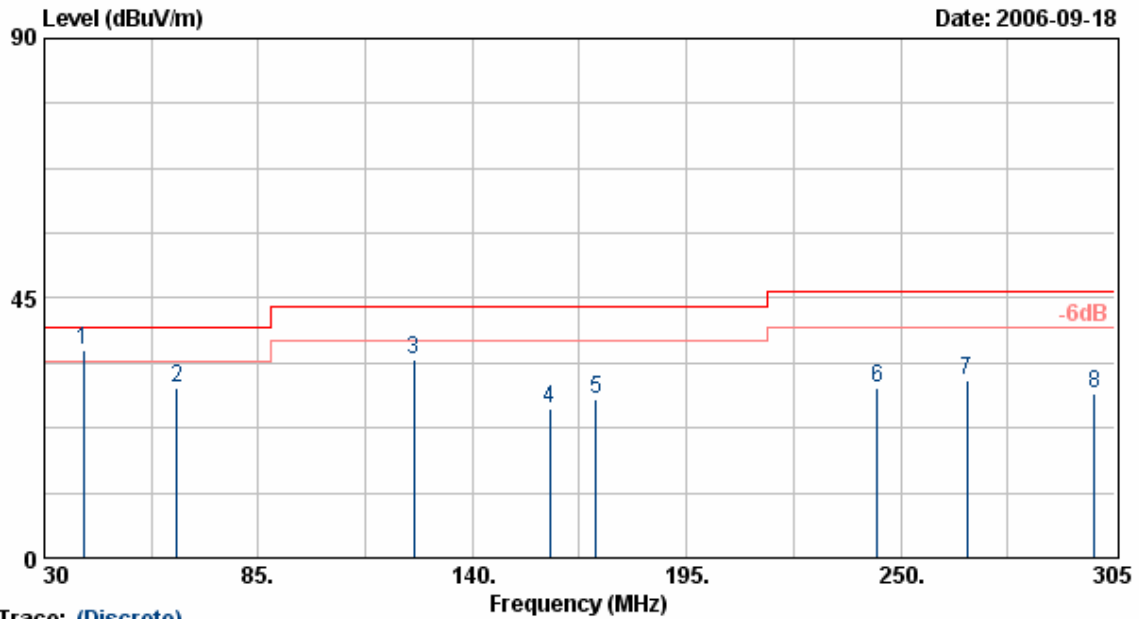
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	336.40	48.91	-12.51	36.40	46.00	-9.60	Peak	200	187
2	400.80	42.57	-10.60	31.97	46.00	-14.03	Peak	200	318
3	432.16	46.99	-9.40	37.59	46.00	-8.41	Peak	200	352
4	500.00	41.43	-7.18	34.25	46.00	-11.75	Peak	200	360
5	563.90	45.80	-5.12	40.68	46.00	-5.32	QP	200	360
6	598.90	42.76	-4.73	38.03	46.00	-7.97	Peak	200	54
7	731.90	43.65	-2.51	41.14	46.00	-4.86	QP	200	89
8	766.90	40.40	-2.15	38.25	46.00	-7.75	Peak	200	89
9	801.90	43.48	-2.43	41.05	46.00	-4.95	QP	200	97

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 1	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11MIMO		
Rate	: 144 Mbps		
Memo	:		



Trace: (Discrete)

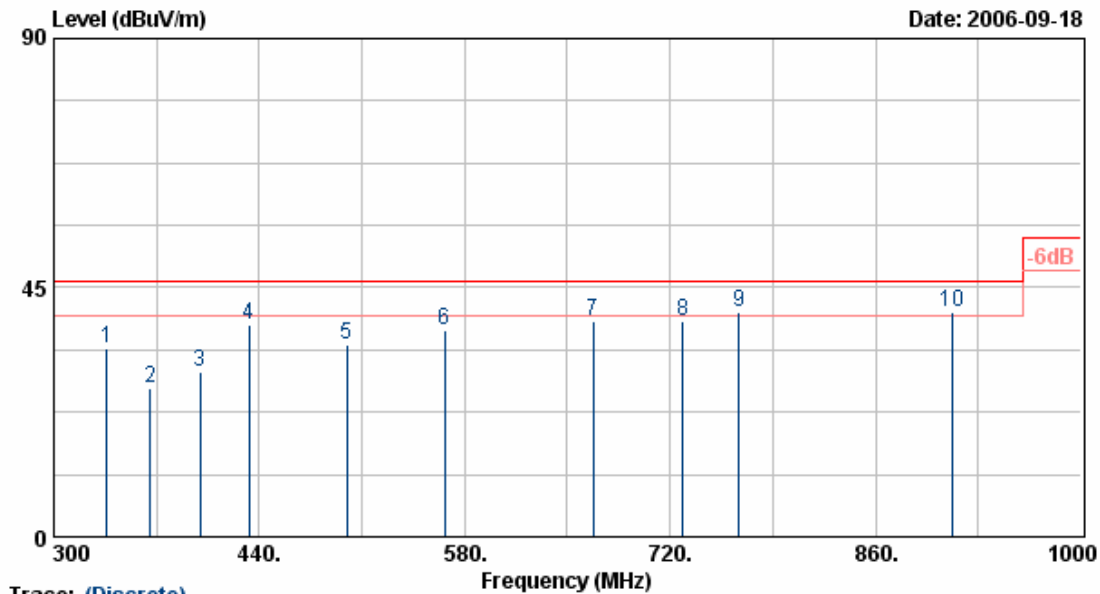
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	39.98	48.96	-13.09	35.87	40.00	-4.13	QP	100	63
2	63.98	50.89	-21.40	29.49	40.00	-10.51	Peak	100	96
3	124.98	50.14	-15.90	34.24	43.50	-9.26	Peak	100	121
4	159.95	42.71	-16.98	25.73	43.50	-17.77	Peak	100	214
5	171.70	45.32	-17.96	27.36	43.50	-16.14	Peak	100	214
6	244.10	44.70	-15.23	29.47	46.00	-16.53	Peak	100	47
7	267.10	44.57	-13.78	30.79	46.00	-15.21	Peak	100	66
8	299.88	42.26	-13.69	28.57	46.00	-17.43	Peak	100	151

Notes:

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

EUT : F5D8001
 Power : DC 5V From PC
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11MIMO
 Rate : 144 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 67 %
 Atmospheric Pressure: 1009 hPa



Trace: (Discrete)

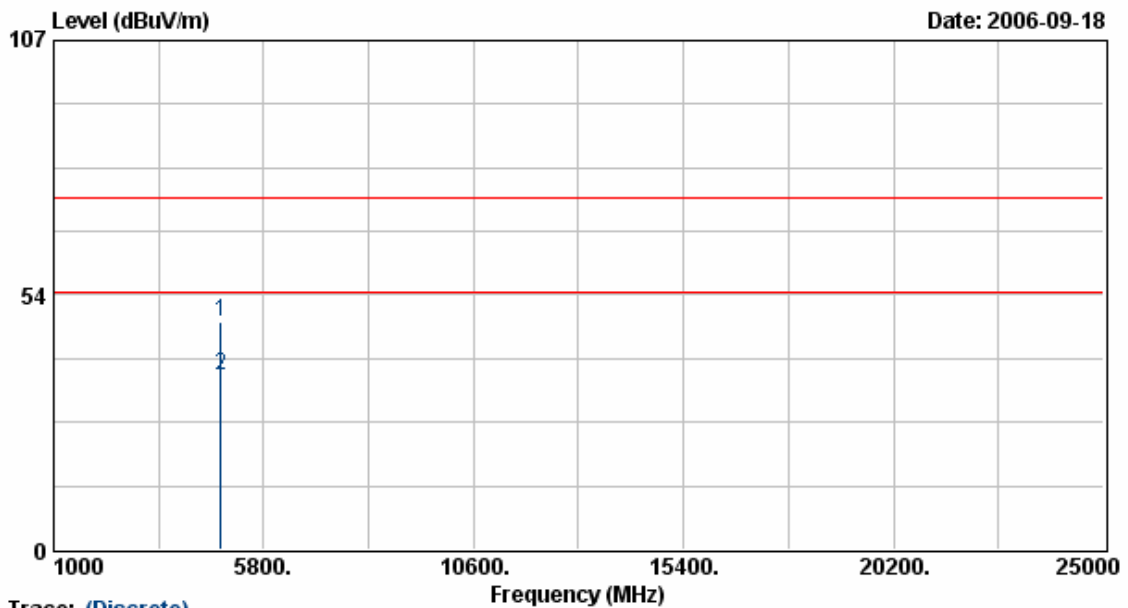
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	336.40	46.66	-12.51	34.15	46.00	-11.85	Peak	100	50
2	365.80	38.36	-11.62	26.74	46.00	-19.26	Peak	100	114
3	399.95	40.57	-10.63	29.94	46.00	-16.06	Peak	100	121
4	433.00	47.73	-9.37	38.36	46.00	-7.64	Peak	100	86
5	499.88	41.93	-7.19	34.74	46.00	-11.26	Peak	100	226
6	566.48	42.43	-5.09	37.34	46.00	-8.66	Peak	100	258
7	667.75	42.80	-3.73	39.07	46.00	-6.93	Peak	100	336
8	728.95	41.54	-2.59	38.95	46.00	-7.05	Peak	100	284
9	766.90	42.57	-2.15	40.42	46.00	-5.58	QP	100	314
10	912.80	41.20	-0.65	40.55	46.00	-5.45	QP	100	314

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11MIMO
 Rate : 144 Mbps
 Memo :

Pol/Phase : HORIZONTAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



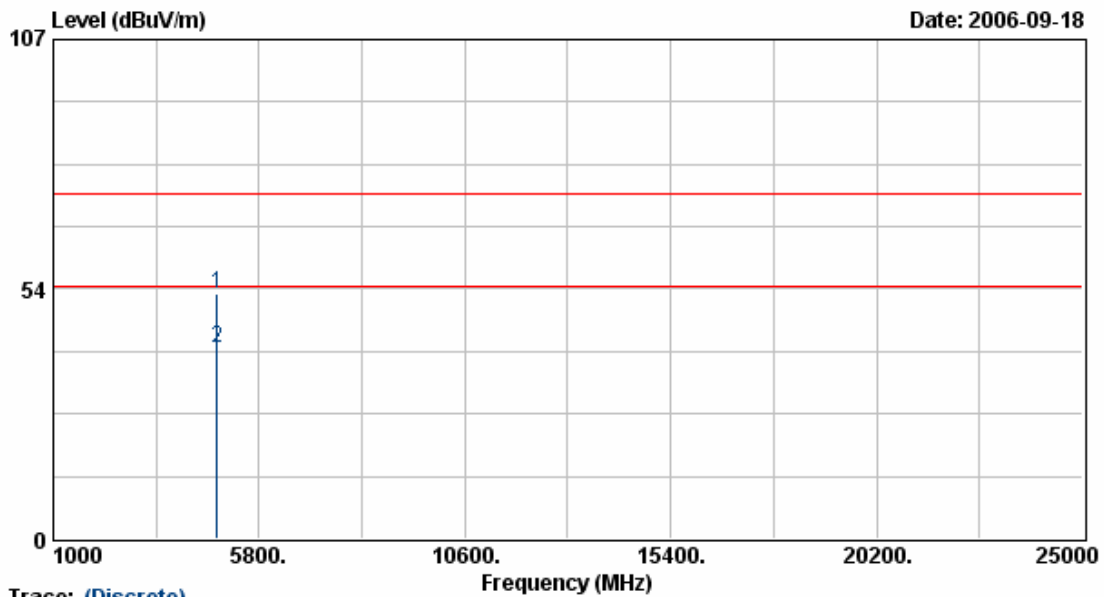
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4823.99	42.19	5.71	47.90	74.00	-26.10	Peak	100	224
2	4823.99	30.71	5.71	36.42	54.00	-17.58	Average	100	224

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 1	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11MIMO		
Rate	: 144 Mbps		
Memo	:		



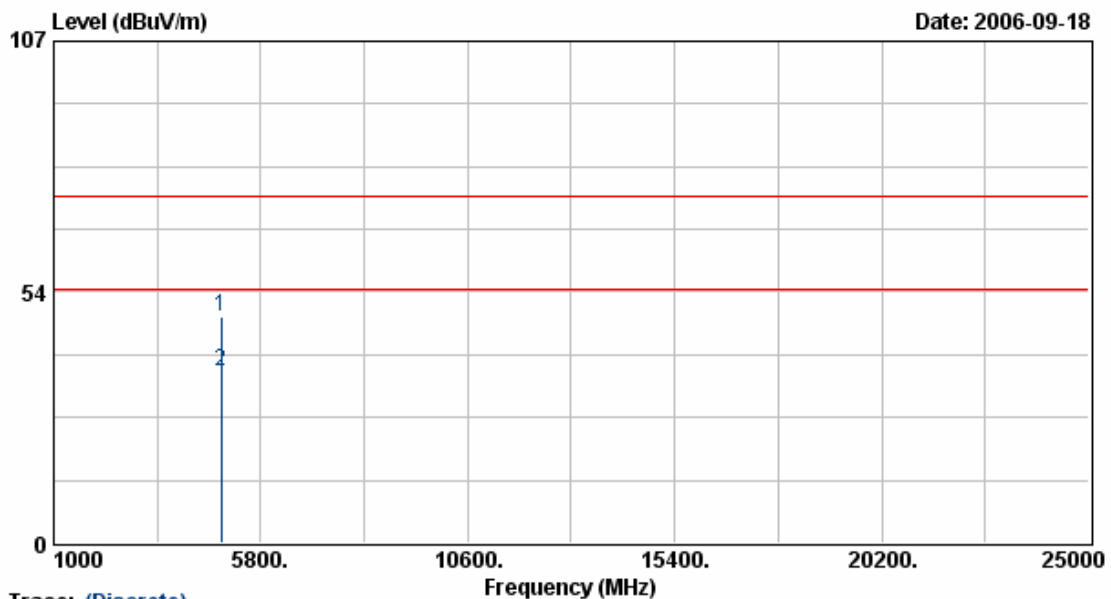
Trace: (Discrete)

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	4823.95	46.64	5.71	52.35	74.00	-21.65	Peak	100	205
2	4823.95	35.23	5.71	40.94	54.00	-13.06	Average	100	205

Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11MIMO		
Rate	: 144 Mbps		
Memo	:		



Trace: (Discrete)

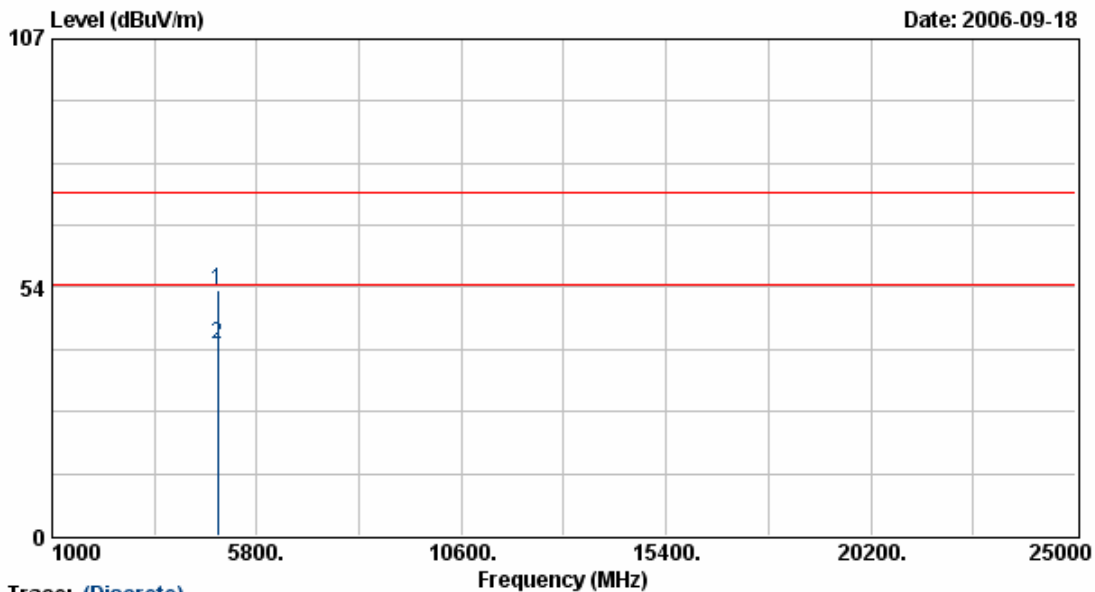
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4874.00	42.35	5.85	48.20	74.00	-25.80	Peak	100	224
2	4874.00	30.69	5.85	36.54	54.00	-17.46	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel : 6
 Modulation Type : 802.11MIMO
 Rate : 144 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure : 1010 hPa



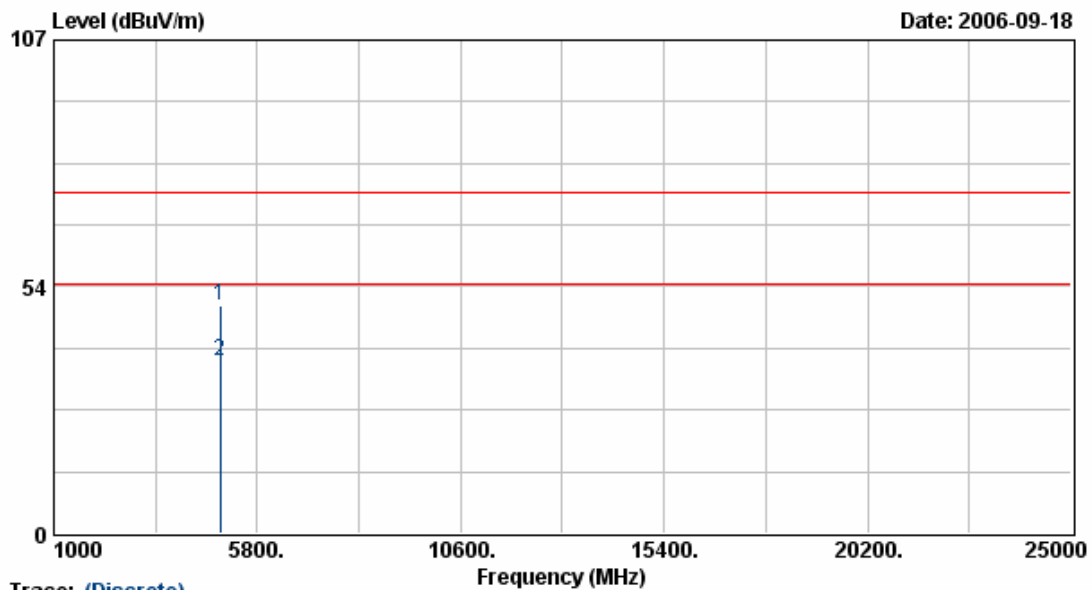
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.99	46.93	5.85	52.78	74.00	-21.22	Peak	100	205
2	4873.99	35.32	5.85	41.17	54.00	-12.83	Average	100	205

Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 11	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11MIMO		
Rate	: 144 Mbps		
Memo	:		



Trace: (Discrete)

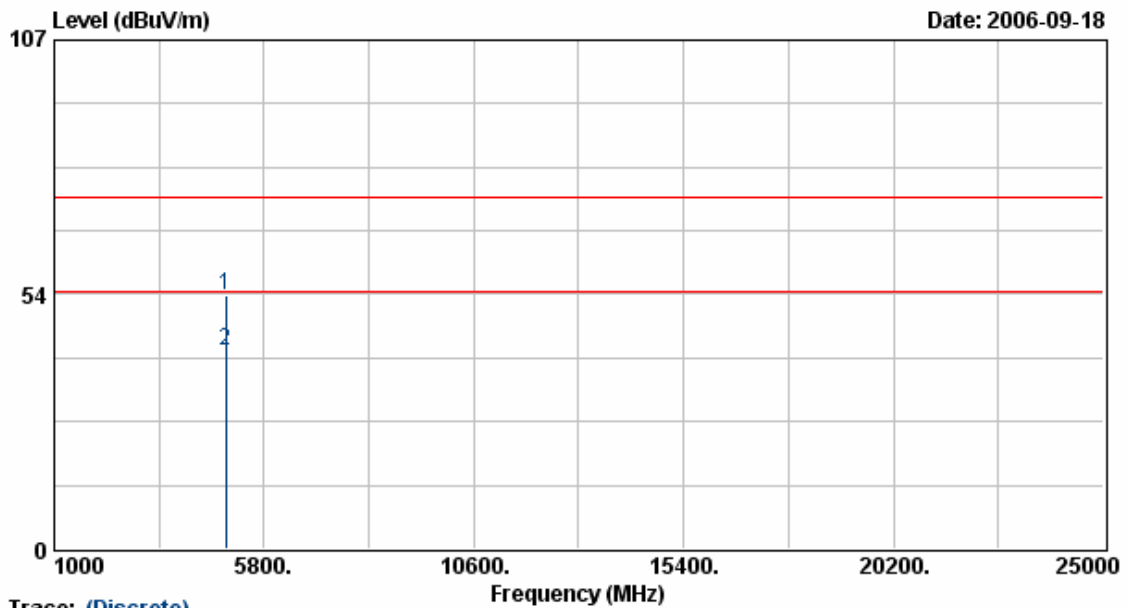
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.00	43.27	5.99	49.26	74.00	-24.74	Peak	100	224
2	4924.00	31.52	5.99	37.51	54.00	-16.49	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel : 11
 Modulation Type : 802.11MIMO
 Rate : 144 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure : 1010 hPa



Trace: (Discrete)

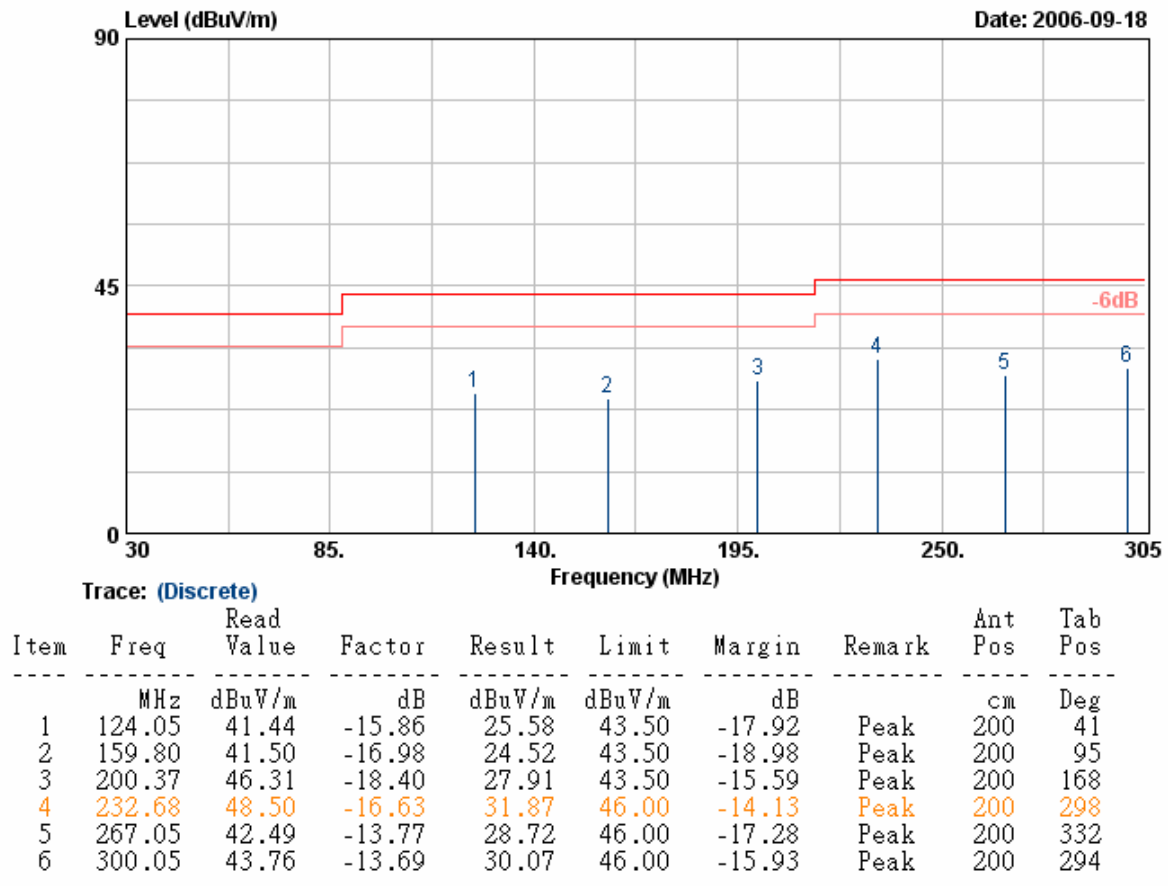
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4924.02	47.13	5.99	53.12	74.00	-20.88	Peak	100	205
2	4924.02	35.46	5.99	41.45	54.00	-12.55	Average	100	205

Notes:

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

Test Mode 4:

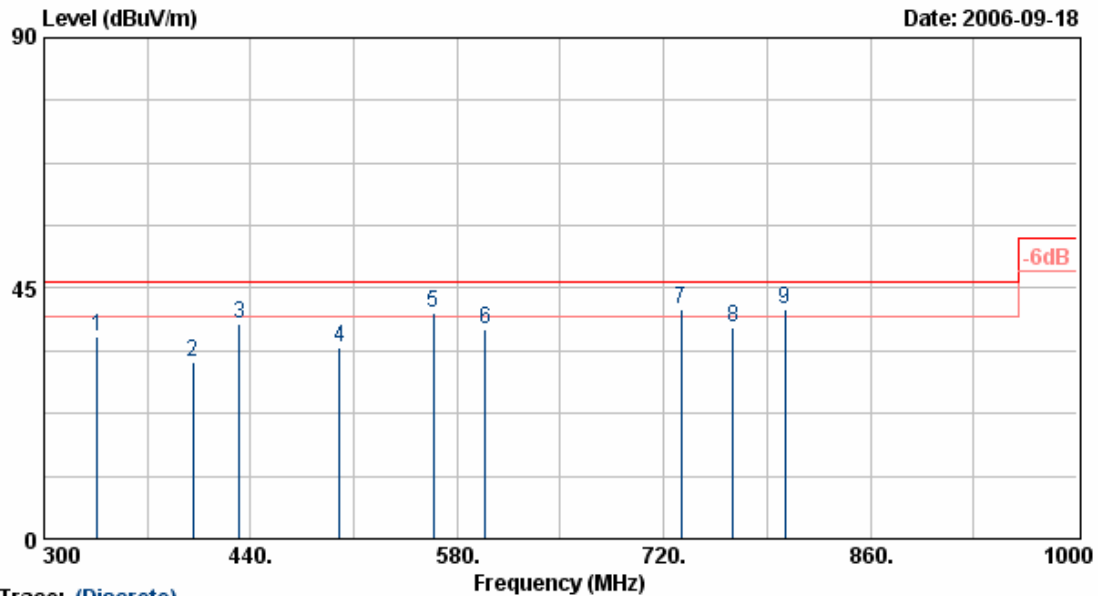
EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 3	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 3	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



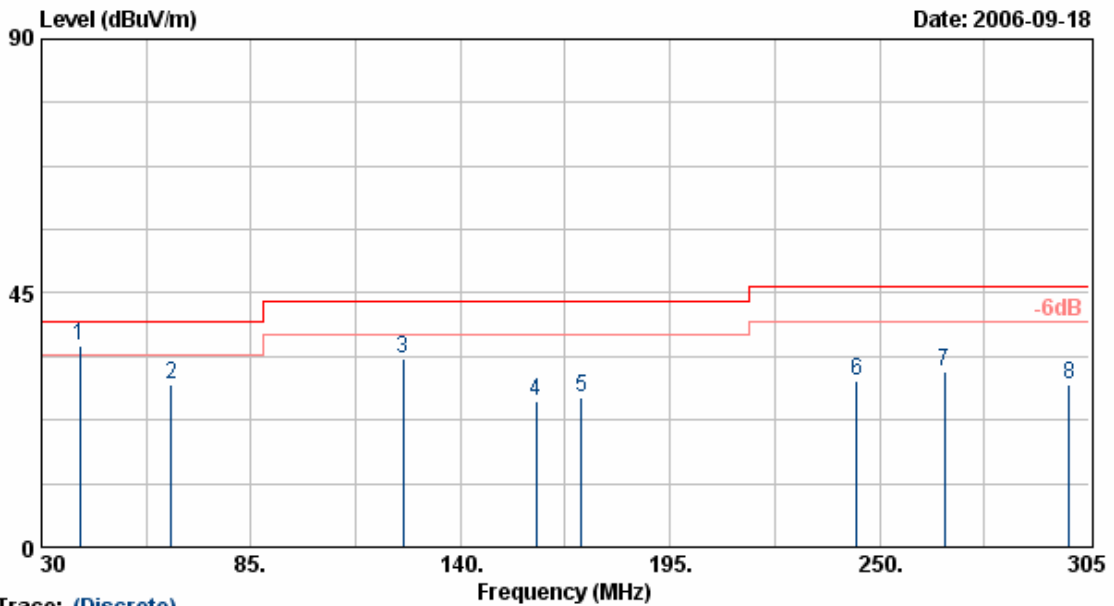
Trace: (Discrete)

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	336.40	48.90	-12.51	36.39	46.00	-9.61	Peak	200	187
2	400.80	42.50	-10.60	31.90	46.00	-14.10	Peak	200	318
3	432.16	47.87	-9.40	38.47	46.00	-7.53	Peak	200	352
4	500.00	41.60	-7.18	34.42	46.00	-11.58	Peak	200	360
5	563.90	45.71	-5.12	40.59	46.00	-5.41	QP	200	360
6	598.90	42.33	-4.73	37.60	46.00	-8.40	Peak	200	54
7	731.90	43.80	-2.51	41.29	46.00	-4.71	QP	200	89
8	766.90	40.19	-2.15	38.04	46.00	-7.96	Peak	200	89
9	801.90	43.58	-2.43	41.15	46.00	-4.85	QP	200	97

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 3	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



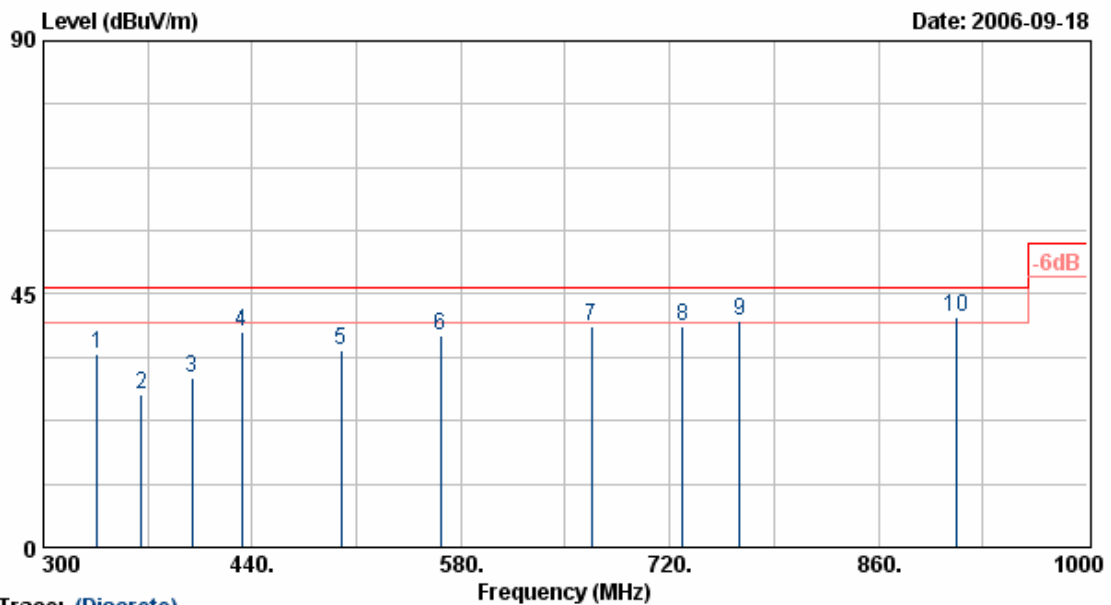
Trace: (Discrete)

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	39.98	48.72	-13.09	35.63	40.00	-4.37	QP	100	63
2	63.98	50.35	-21.40	28.95	40.00	-11.05	Peak	100	96
3	124.98	49.44	-15.90	33.54	43.50	-9.96	Peak	100	121
4	159.95	42.74	-16.98	25.76	43.50	-17.74	Peak	100	214
5	171.70	44.47	-17.96	26.51	43.50	-16.99	Peak	100	214
6	244.10	44.55	-15.23	29.32	46.00	-16.68	Peak	100	47
7	267.10	44.74	-13.78	30.96	46.00	-15.04	Peak	100	66
8	299.88	42.35	-13.69	28.66	46.00	-17.34	Peak	100	151

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V From PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 67 %
Operation Channel	: 3	Atmospheric Pressure	: 1009 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



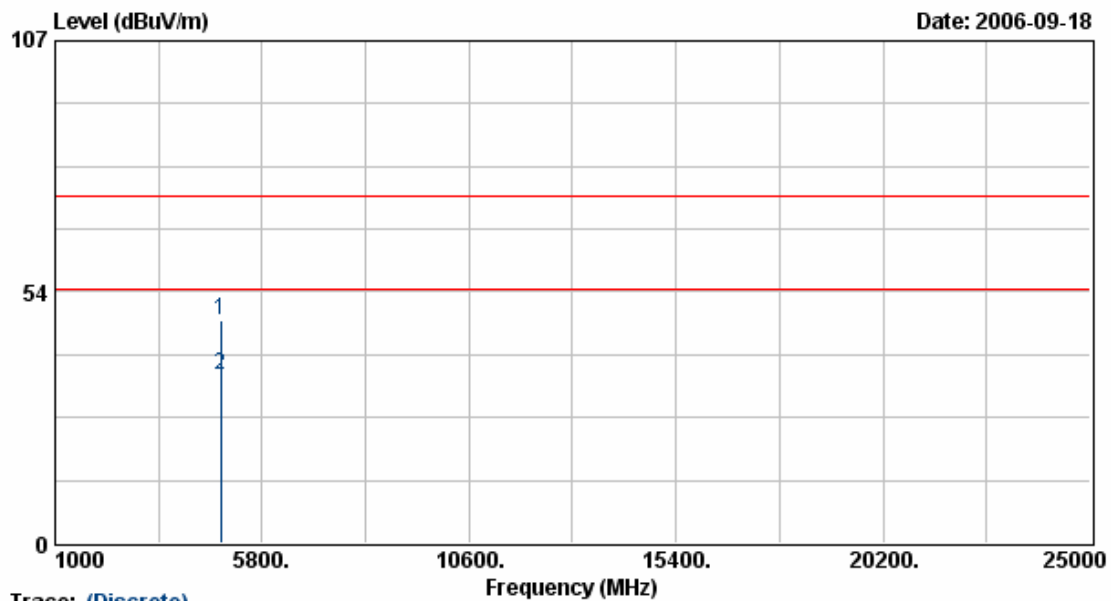
Trace: (Discrete)

Item	Freq MHz	Read Value dBuV/m	Factor dB	Result dBuV/m	Limit dBuV/m	Margin dB	Remark	Ant Pos cm	Tab Pos Deg
1	336.40	46.80	-12.51	34.29	46.00	-11.71	Peak	100	50
2	365.80	38.74	-11.62	27.12	46.00	-18.88	Peak	100	114
3	399.95	40.86	-10.63	30.23	46.00	-15.77	Peak	100	121
4	433.00	47.59	-9.37	38.22	46.00	-7.78	Peak	100	86
5	499.88	42.15	-7.19	34.96	46.00	-11.04	Peak	100	226
6	566.48	42.60	-5.09	37.51	46.00	-8.49	Peak	100	258
7	667.75	42.93	-3.73	39.20	46.00	-6.80	Peak	100	336
8	728.95	41.75	-2.59	39.16	46.00	-6.84	Peak	100	284
9	766.90	42.42	-2.15	40.27	46.00	-5.73	QP	100	314
10	912.80	41.54	-0.65	40.89	46.00	-5.11	QP	100	314

Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 3	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



Trace: (Discrete)

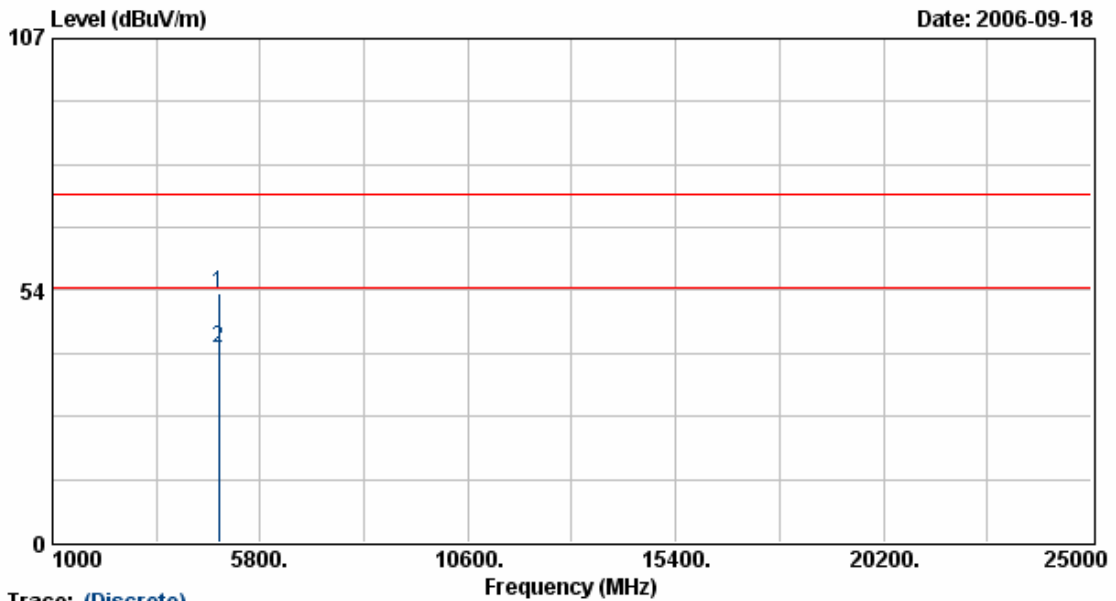
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4843.98	41.84	5.76	47.60	74.00	-26.40	Peak	100	224
2	4843.98	30.11	5.76	35.87	54.00	-18.13	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel : 3
 Modulation Type : 802.11MIMO+CB
 Rate : 300 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure: 1010 hPa



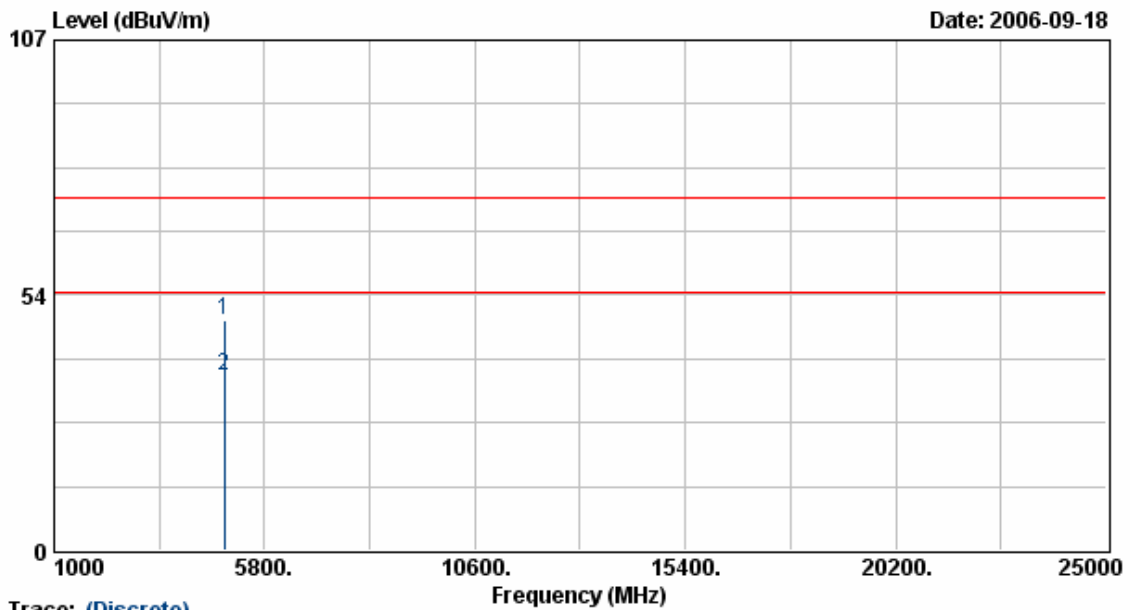
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4843.92	47.06	5.76	52.82	74.00	-21.18	Peak	100	205
2	4843.92	35.35	5.76	41.11	54.00	-12.89	Average	100	205

Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



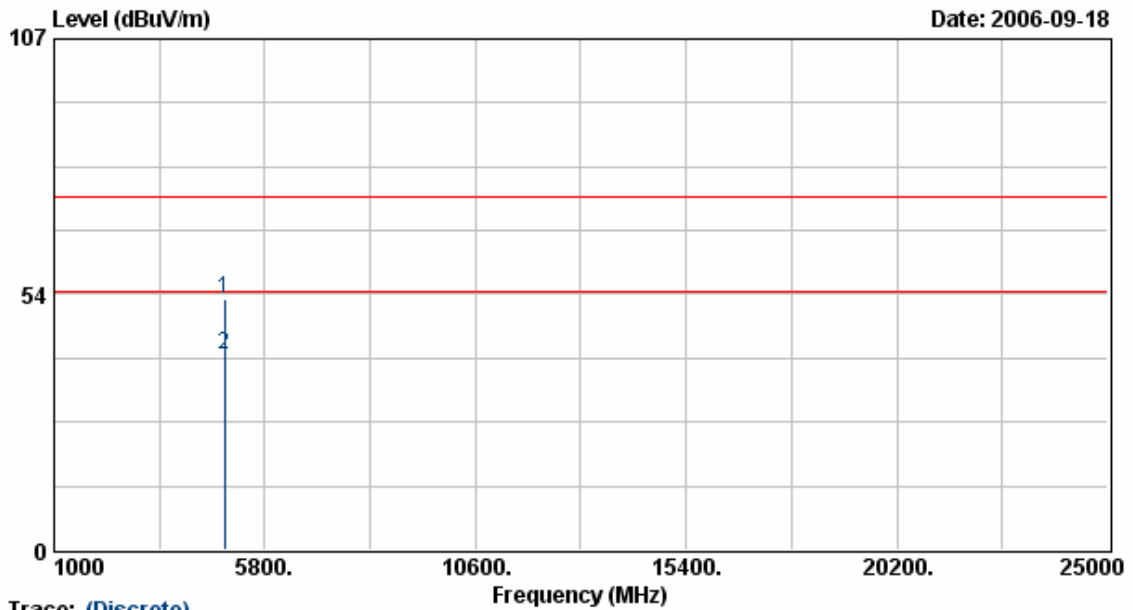
Trace: (Discrete)

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	4874.05	42.21	5.85	48.06	74.00	-25.94	Peak	100	224
2	4874.05	30.56	5.85	36.41	54.00	-17.59	Average	100	224

Notes:

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

EUT	: F5D8001	Pol/Phase	: VERTICAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 6	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



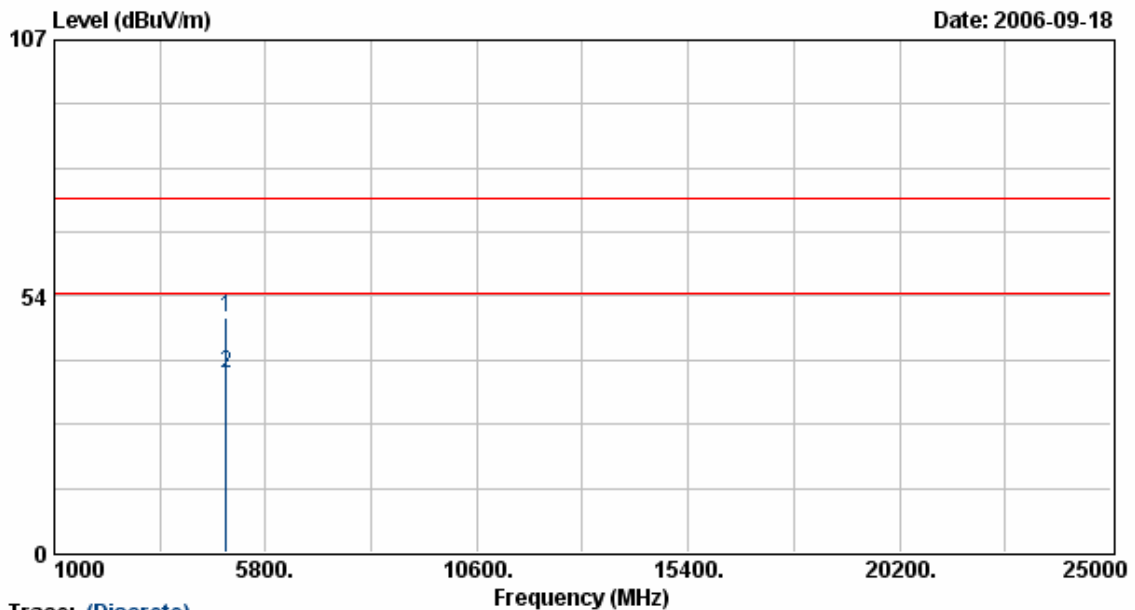
Trace: (Discrete)

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	4873.97	46.53	5.85	52.38	74.00	-21.62	Peak	100	205
2	4873.97	35.14	5.85	40.99	54.00	-13.01	Average	100	205

Notes:

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

EUT	: F5D8001	Pol/Phase	: HORIZONTAL
Power	: DC 5V from PC	Temperature	: 27 °C
Test Mode	: Transmit/Receive	Humidity	: 65 %
Operation Channel	: 9	Atmospheric Pressure	: 1010 hPa
Modulation Type	: 802.11MIMO+CB		
Rate	: 300 Mbps		
Memo	:		



Trace: (Discrete)

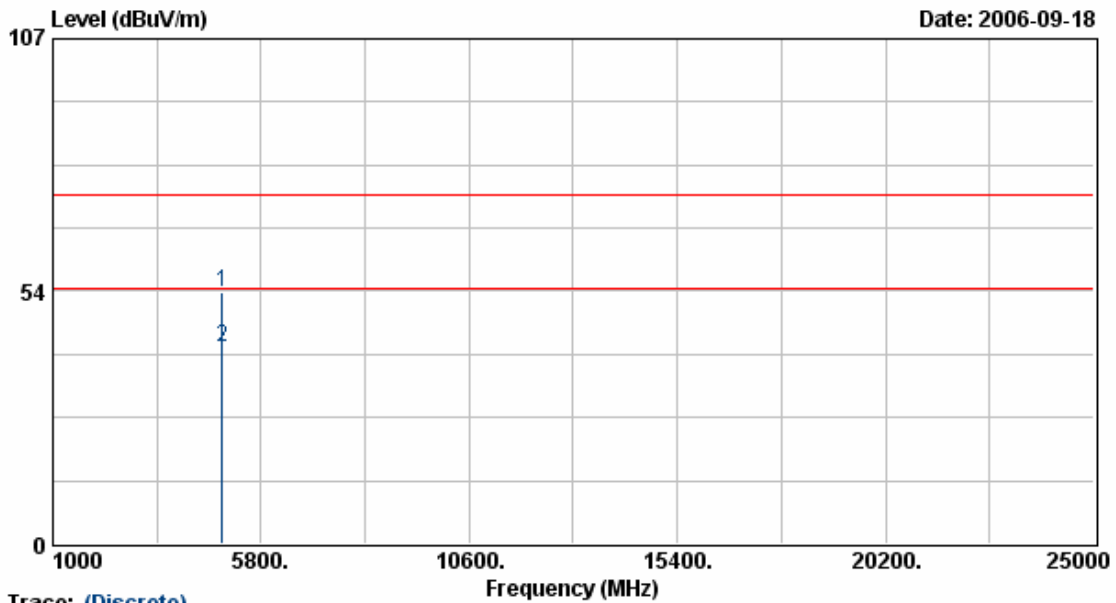
Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4903.99	43.05	5.93	48.98	74.00	-25.02	Peak	100	224
2	4903.99	31.35	5.93	37.28	54.00	-16.72	Average	100	224

Notes:

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

EUT : F5D8001
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel : 9
 Modulation Type : 802.11MIMO+CB
 Rate : 300 Mbps
 Memo :

Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 65 %
 Atmospheric Pressure : 1010 hPa



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4904.05	47.39	5.93	53.32	74.00	-20.68	Peak	100	205
2	4904.05	35.70	5.93	41.63	54.00	-12.37	Average	100	205

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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.

5.6 Test Photographs

Front View



Rear View



6. 6dB Bandwidth Measurement Data

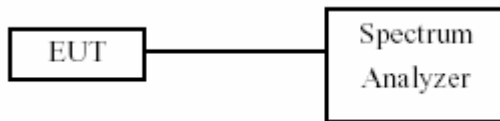
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
- 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.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

6.5 Test Result and Data

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

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	8.90
06	2437	8.90
11	2462	8.90

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency (MHz)	6dB Bandwidth (MHz)
01	2412	19.20
06	2437	19.40
11	2462	19.60

(3) Modulation Standard: IEEE 802.11g MIMO (144Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

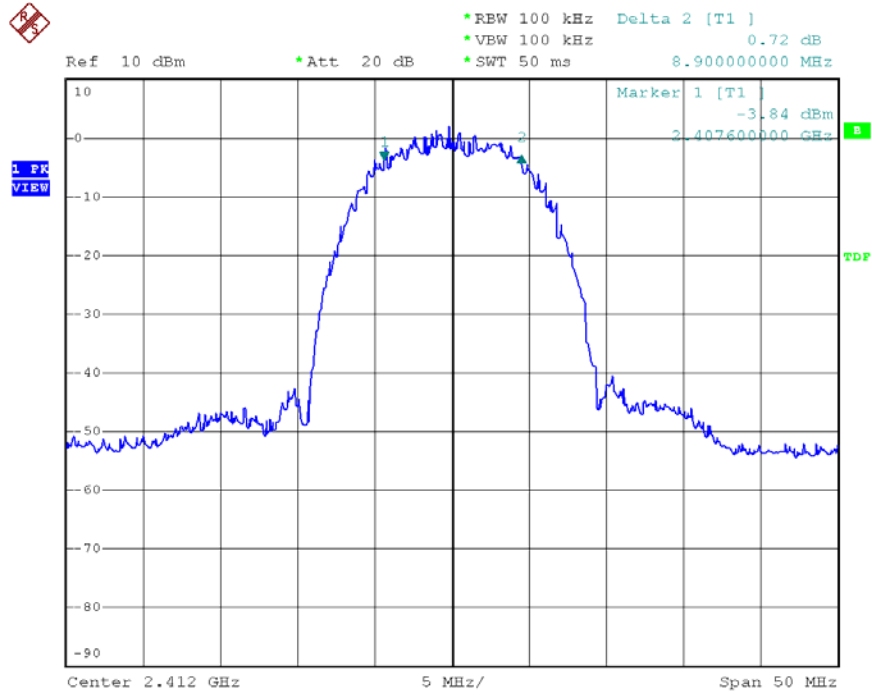
Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
01	2412	17.80	17.80
06	2437	17.80	17.80
11	2462	17.80	17.80

(4) Modulation Standard: IEEE 802.11g MIMO+CB (300Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

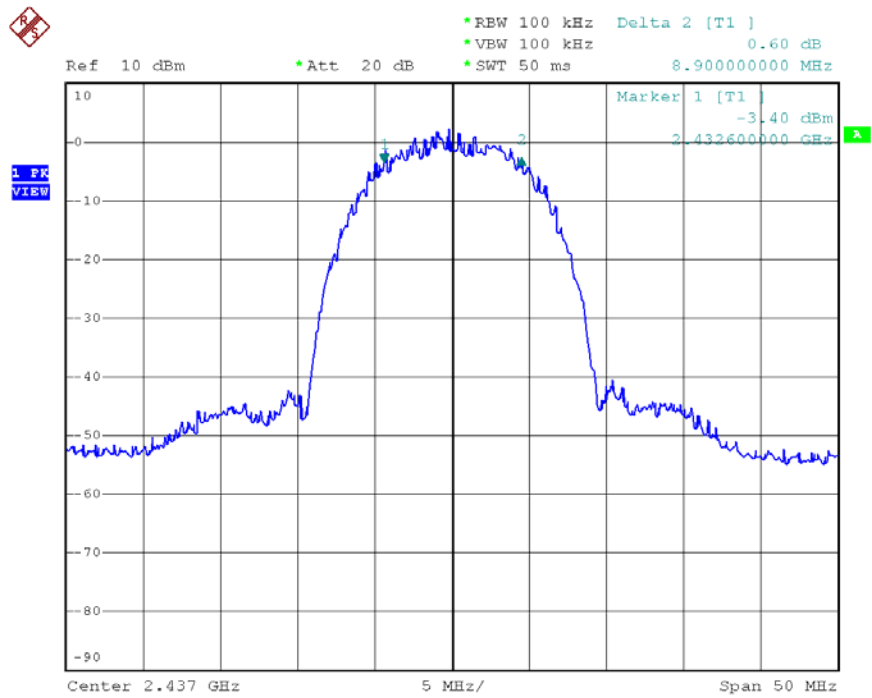
Channel	Frequency (MHz)	6dB Bandwidth of TX0 (MHz)	6dB Bandwidth of TX1 (MHz)
03	2422	36.40	36.60
06	2437	36.40	36.60
09	2452	36.40	36.60

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



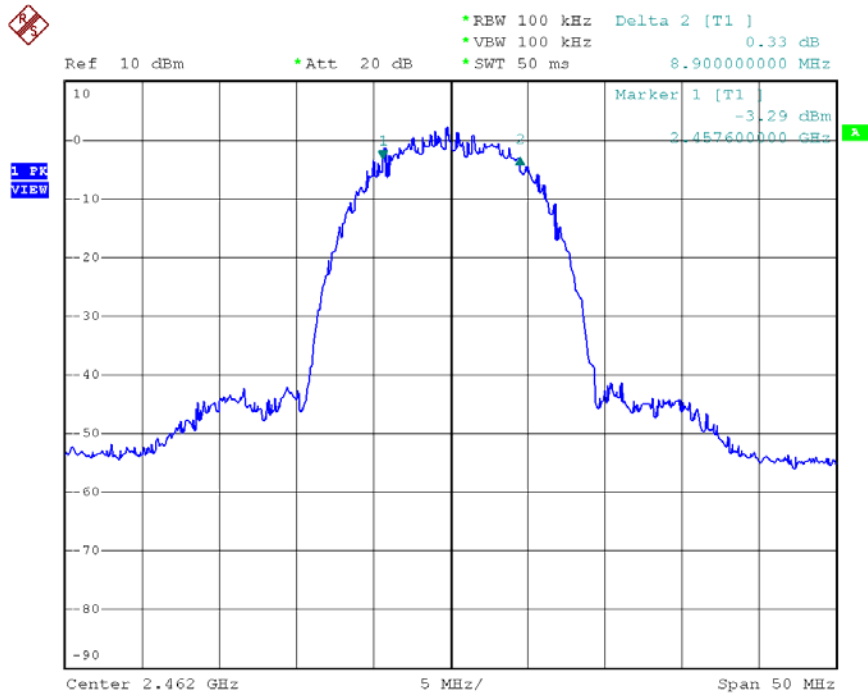
Date: 8.SEP.2006 14:24:44

Channel:06



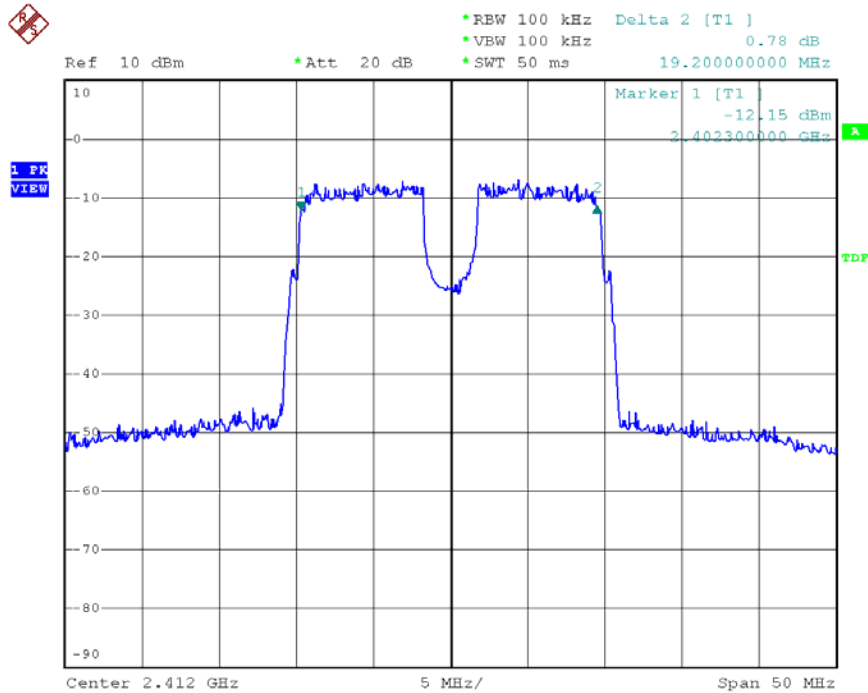
Date: 8.SEP.2006 14:44:21

Channel:11



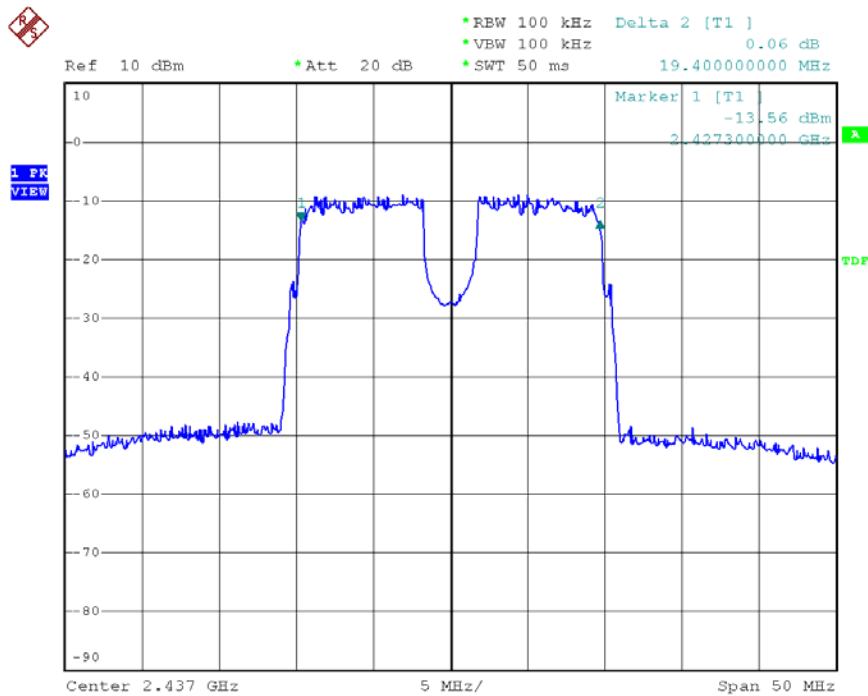
Date: 8.SEP.2006 14:59:27

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



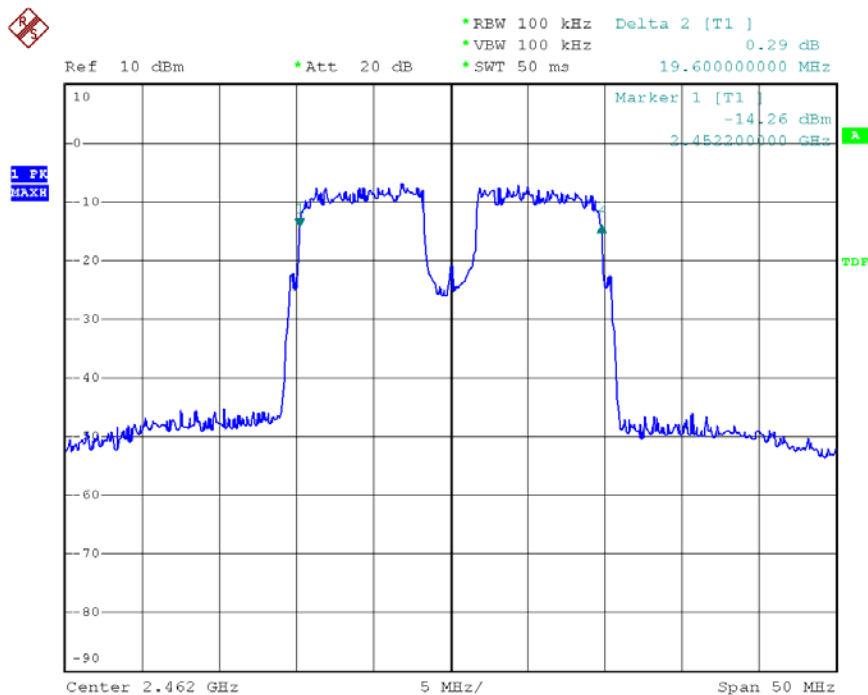
Date: 8.SEP.2006 15:39:52

Channel:06



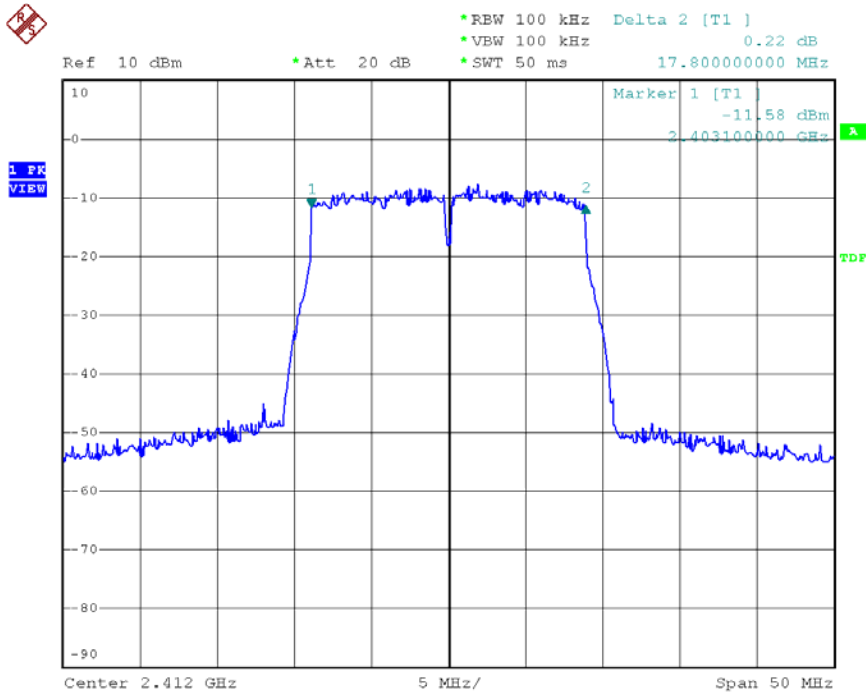
Date: 8.SEP.2006 16:02:34

Channel:11



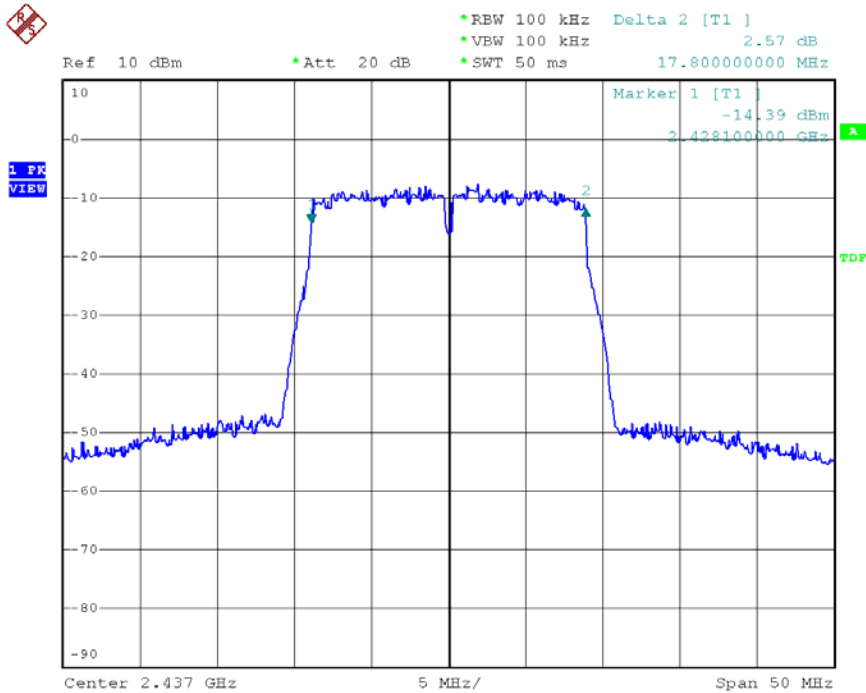
Date: 8.SEP.2006 16:08:04

Modulation Standard:802.11g MIMO(144Mbps) – TX0
Channel:01



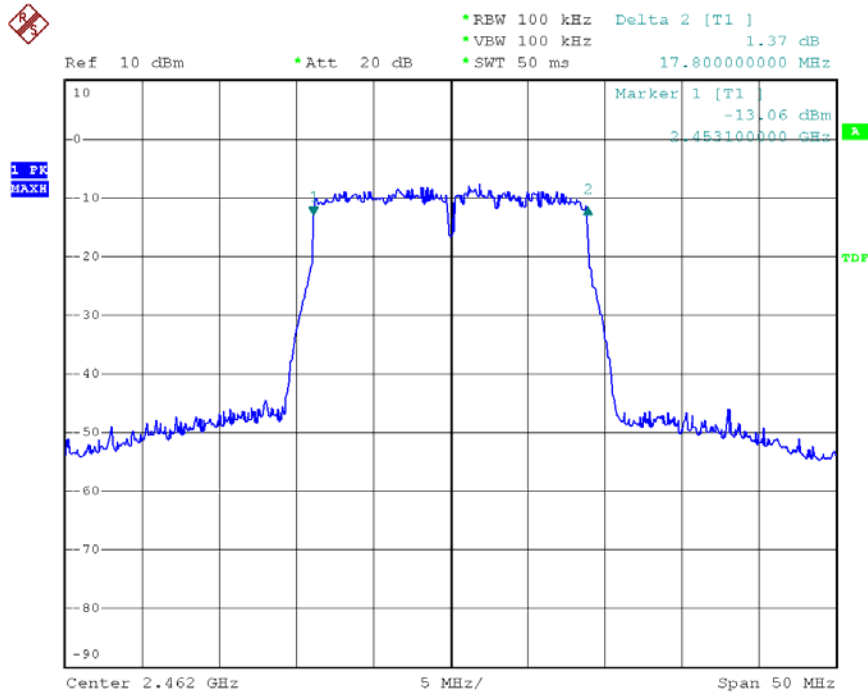
Date: 8.SEP.2006 17:09:45

Channel:06



Date: 8.SEP.2006 17:23:58

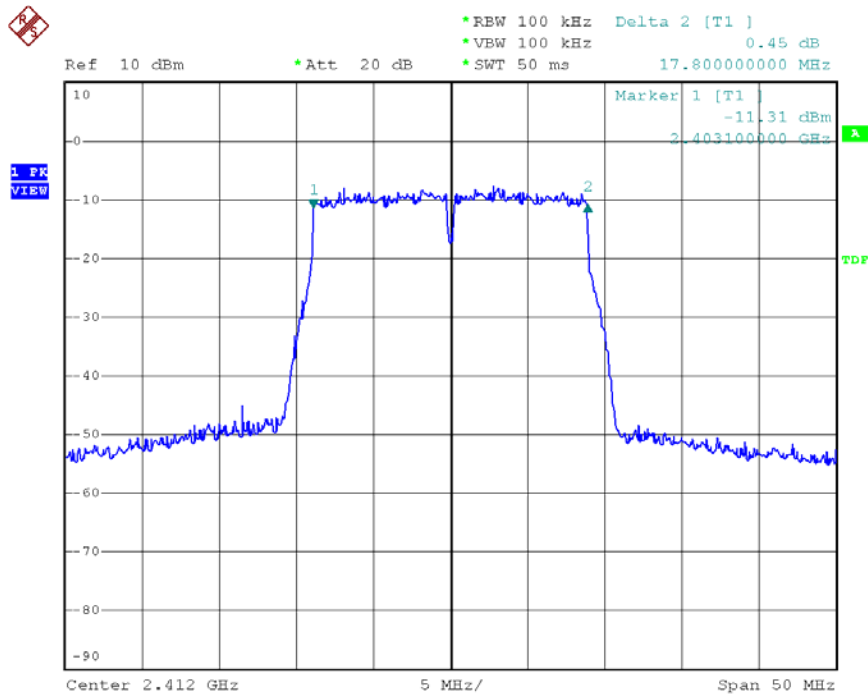
Channel:11



Date: 8.SEP.2006 17:31:28

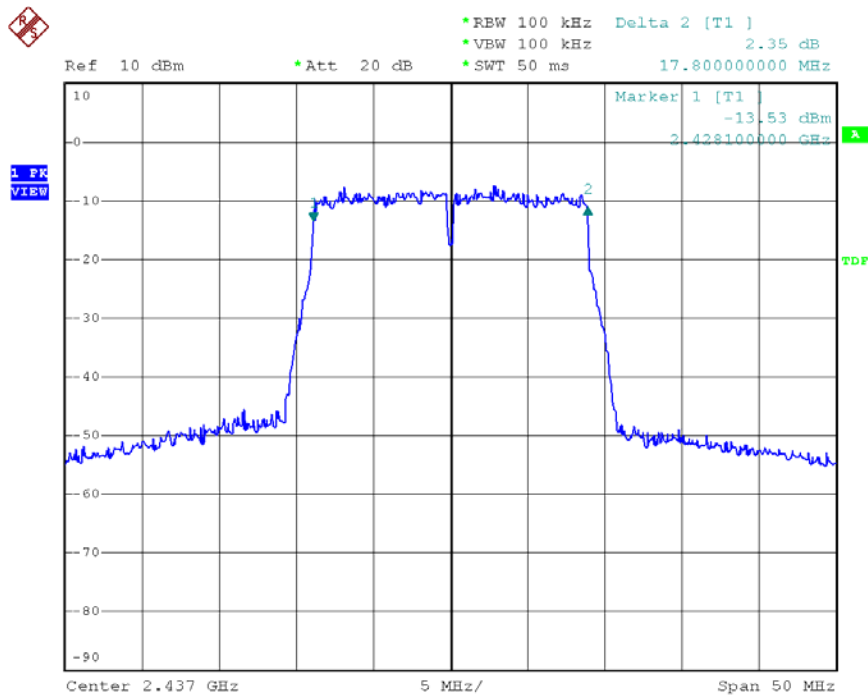
Modulation Standard:802.11g MIMO(144Mbps) – TX1

Channel:01



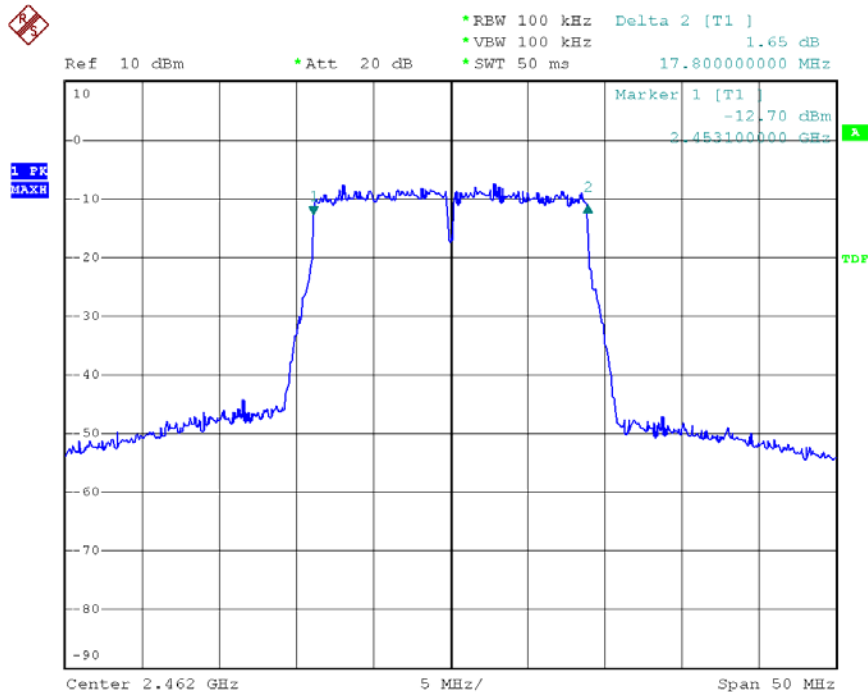
Date: 8.SEP.2006 16:58:44

Channel:06



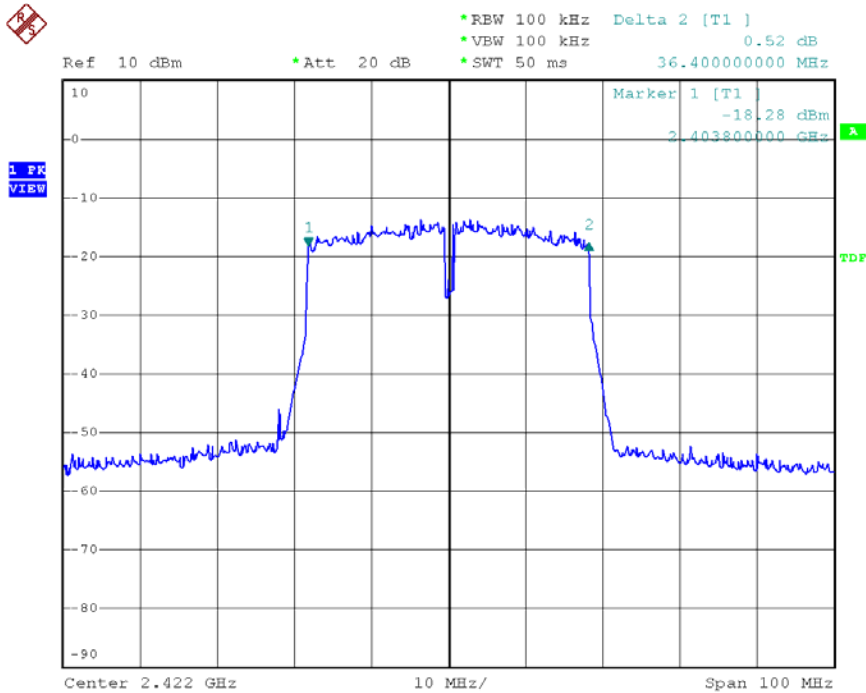
Date: 8.SEP.2006 16:54:11

Channel:11



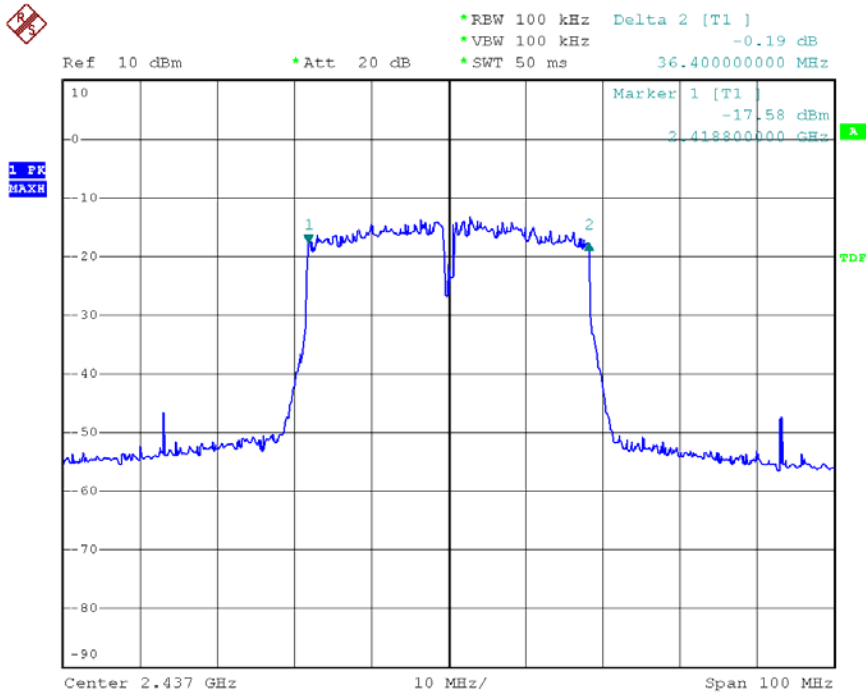
Date: 8.SEP.2006 16:42:39

Modulation Standard:802.11g MIMO+CB(300Mbps) – TX0
Channel:03



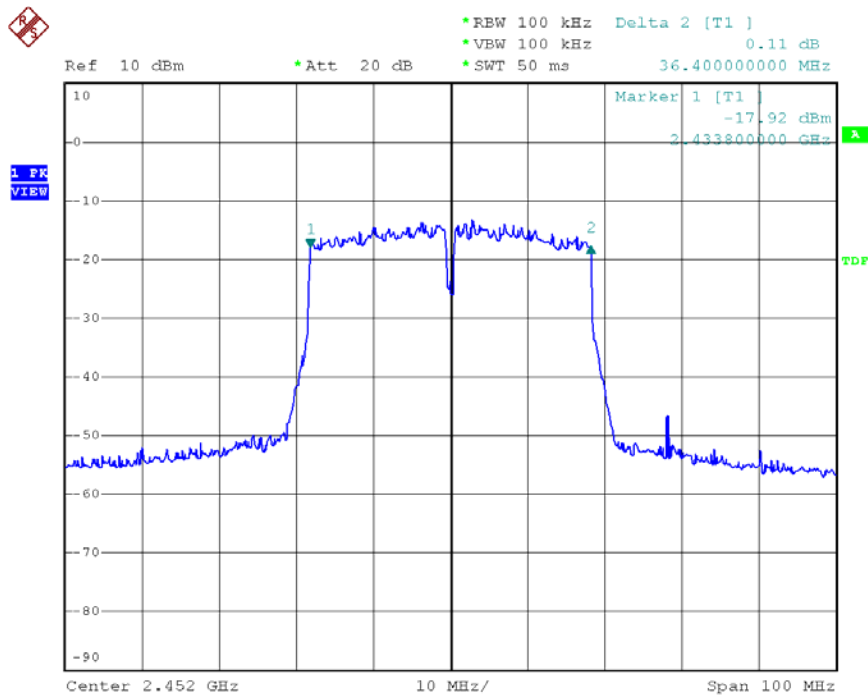
Date: 13.SEP.2006 11:08:11

Channel:06



Date: 13.SEP.2006 11:05:55

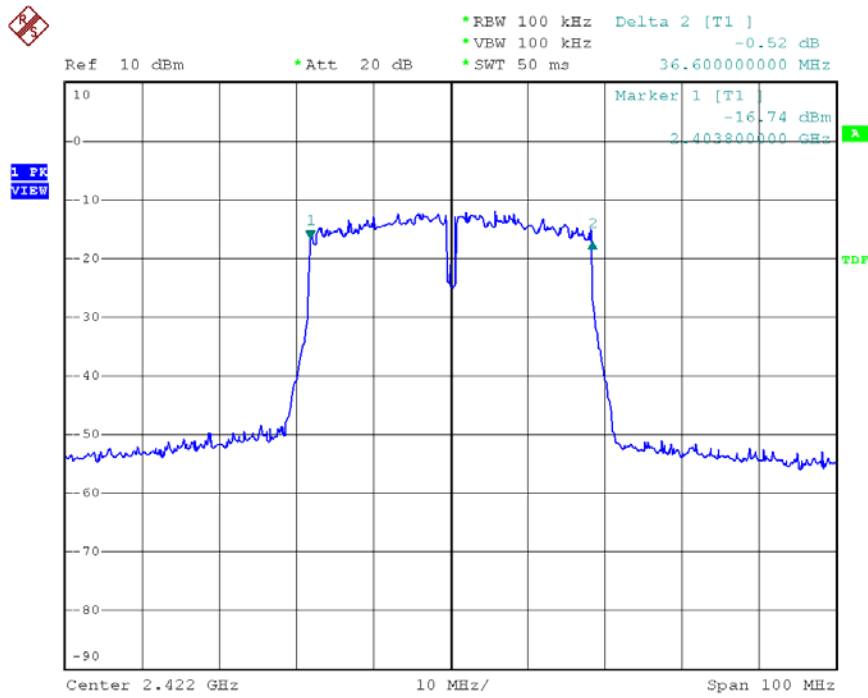
Channel:09



Date: 13.SEP.2006 11:09:37

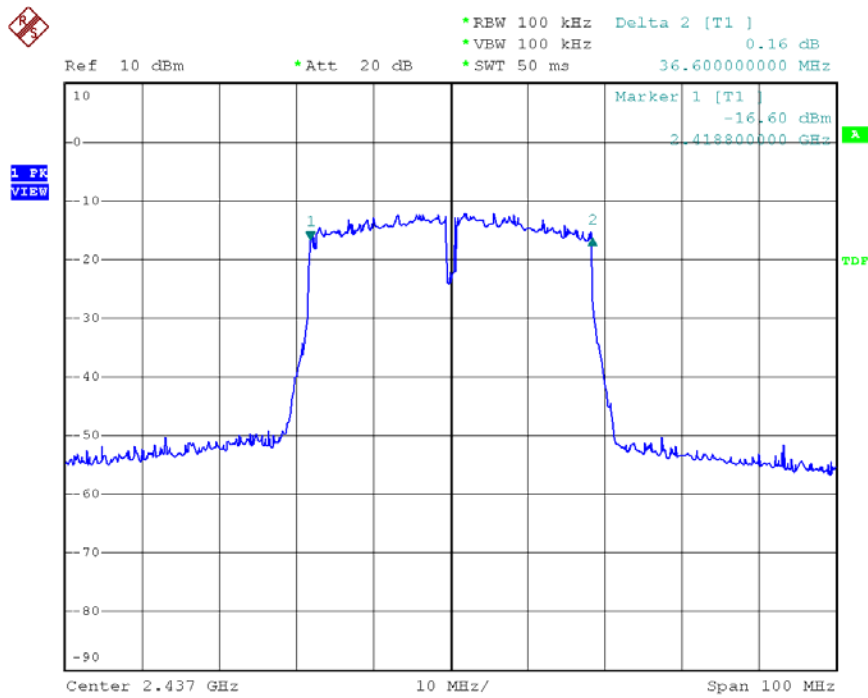
Modulation Standard:802.11g MIMO+CB (300Mbps) – TX1

Channel:03



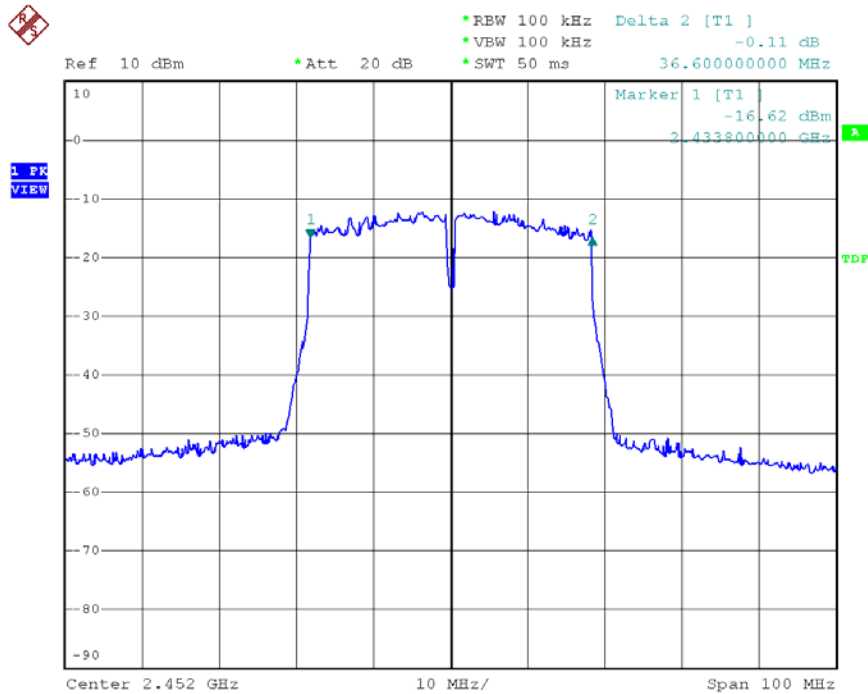
Date: 13.SEP.2006 11:35:45

Channel:06



Date: 13.SEP.2006 11:39:08

Channel:09



Date: 13.SEP.2006 11:41:43

7. Maximum Peak Output Power

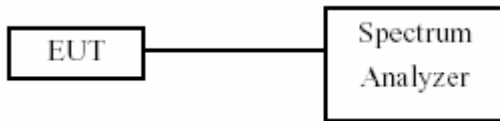
7.1 Test Limit

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.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

7.5 Test Result and Data

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

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	17.12	51.50
06	2437	17.19	52.40
11	2462	17.06	50.80

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency (MHz)	Peak Power Output (dBm)	Peak Power Output (mW)
01	2412	14.20	26.30
06	2437	14.49	28.10
11	2462	14.37	27.40

(3) Modulation Standard: IEEE 802.11g MIMO (144Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

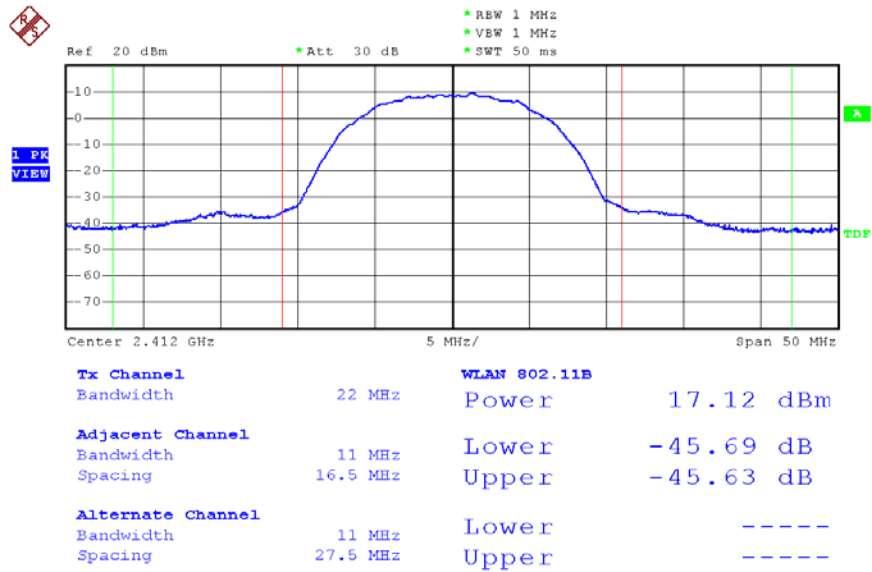
Channel	Frequency (MHz)	Peak Power Output Of TX0 (dBm)	Peak Power Output Of TX1 (dBm)	Peak Power Output Of Total (dBm)	Peak Power Output Of Total (mW)
01	2412	13.39	13.27	16.34	43.06
06	2437	13.56	13.33	16.46	44.23
11	2462	13.41	13.26	16.35	43.11

(4) Modulation Standard: IEEE 802.11g MIMO+CB (300Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

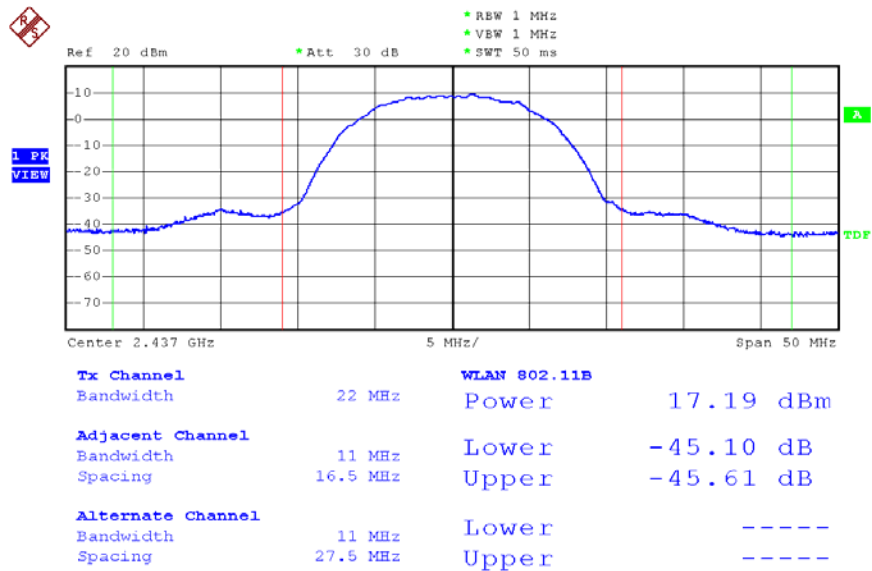
Channel	Frequency (MHz)	Peak Power Output Of TX0 (dBm)	Peak Power Output Of TX1 (dBm)	Peak Power Output Of Total (dBm)	Peak Power Output Of Total (mW)
03	2422	13.62	13.29	16.47	44.34
06	2437	13.63	13.34	16.50	44.64
09	2452	13.67	13.30	16.50	44.66

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



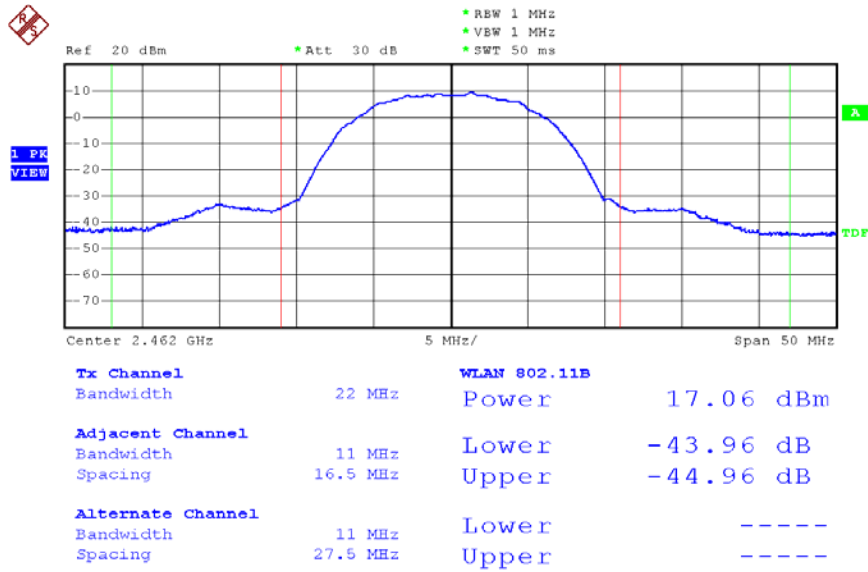
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Channel:06



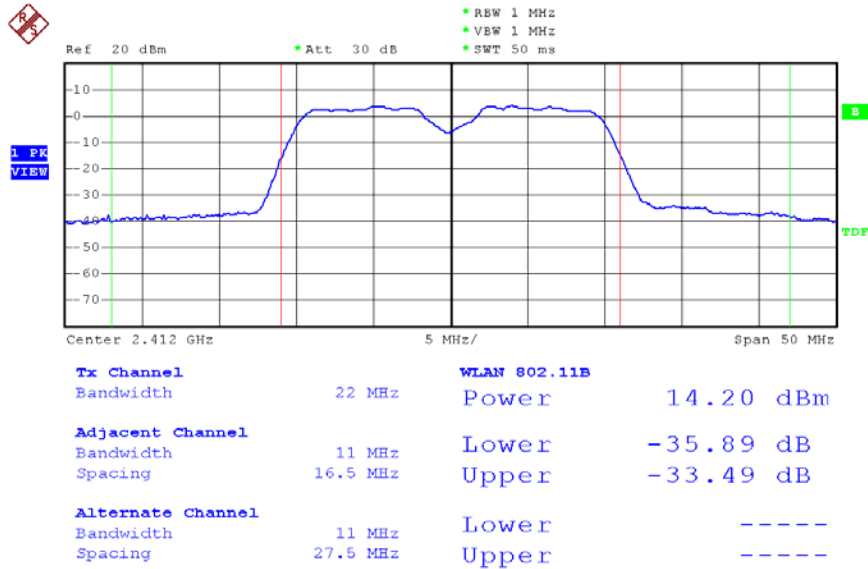
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Channel: 11



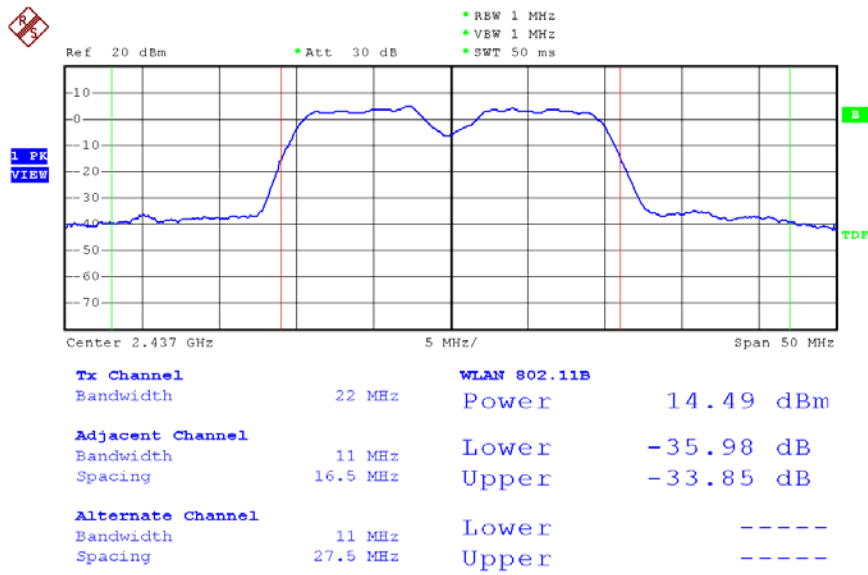
Date: 8.SEP.2006 14:22:05

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



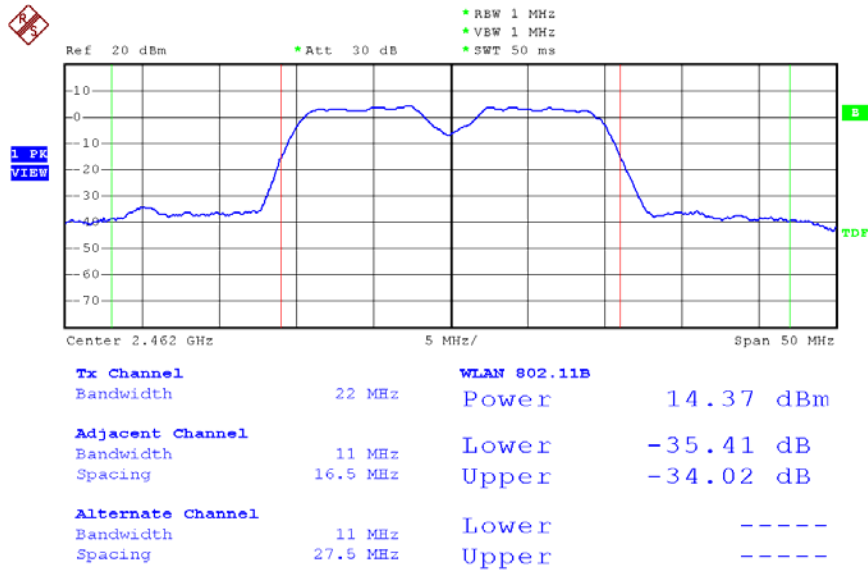
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Channel: 06

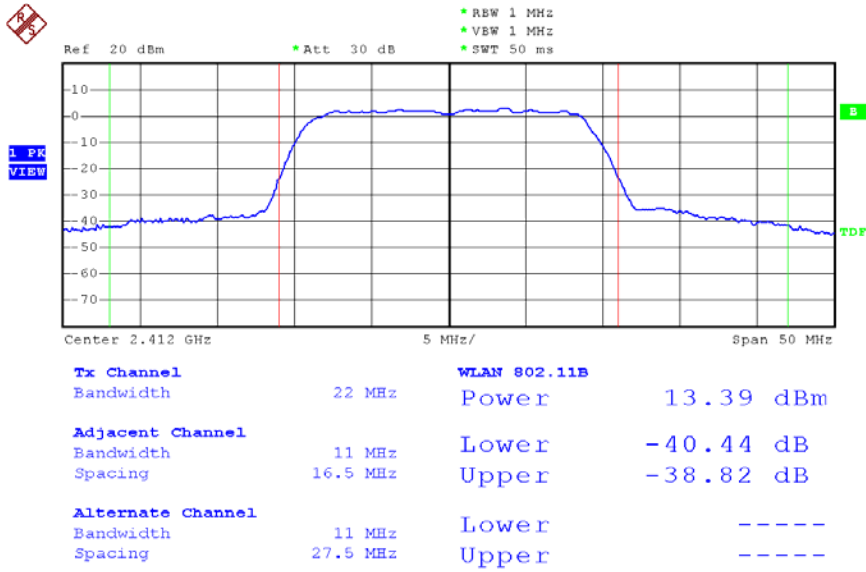


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Channel:11

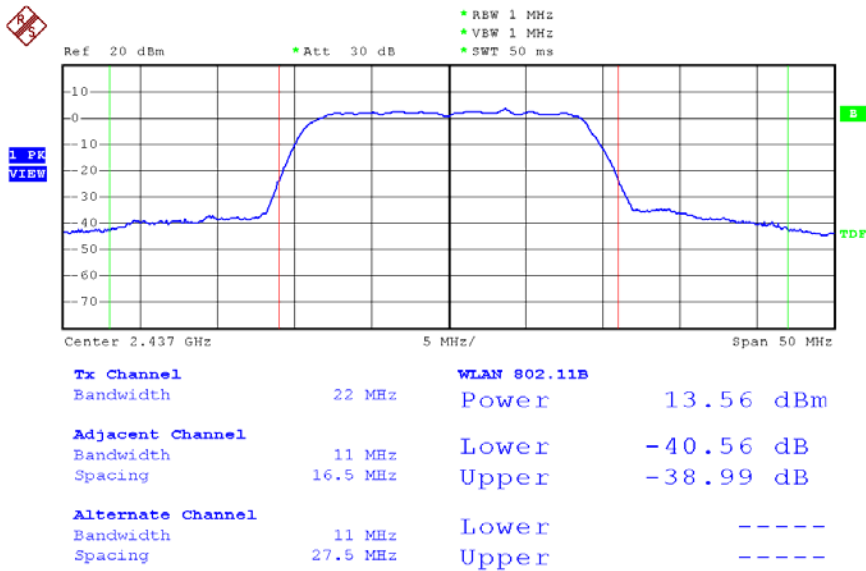


Date: 8.SEP.2006 15:37:07

Modulation Standard: 802.11g MIMO (144Mbps) - TX0
Channel: 01

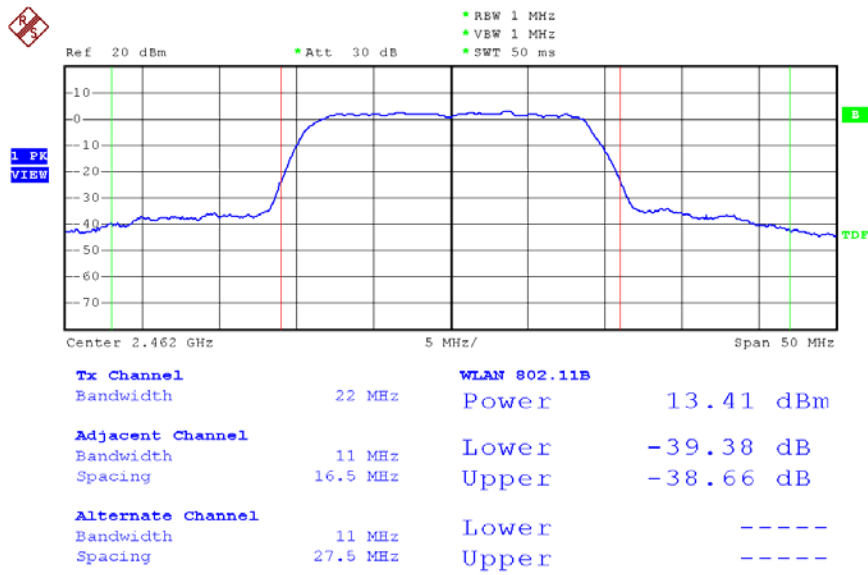
Date: 8.SEP.2006 16:27:52

Channel: 06



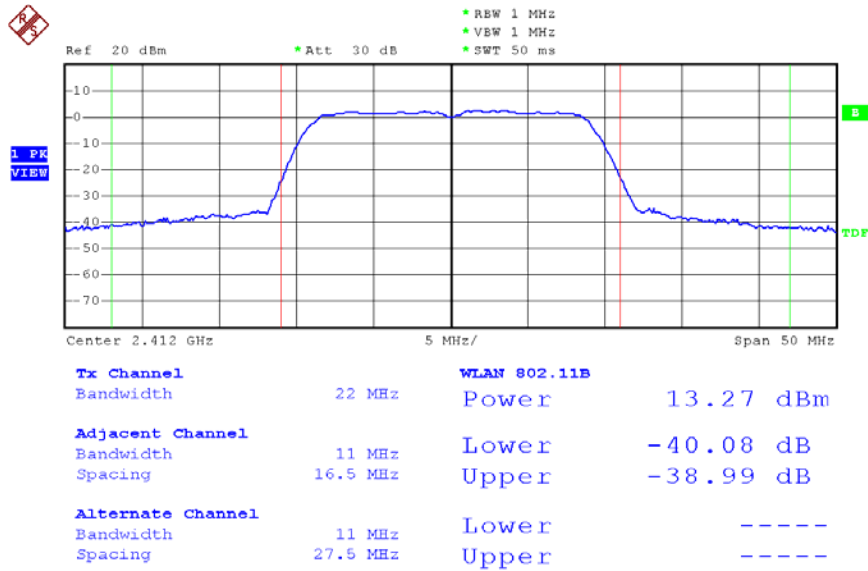
Date: 8.SEP.2006 16:28:44

Channel:11



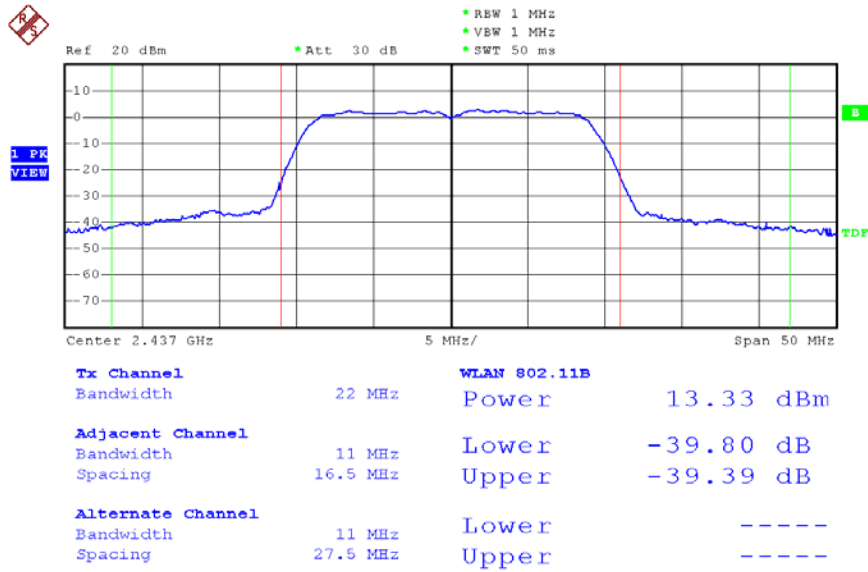
Date: 8.SEP.2006 16:29:56

Modulation Standard:802.11g MIMO (144Mbps) - TX1
Channel:01



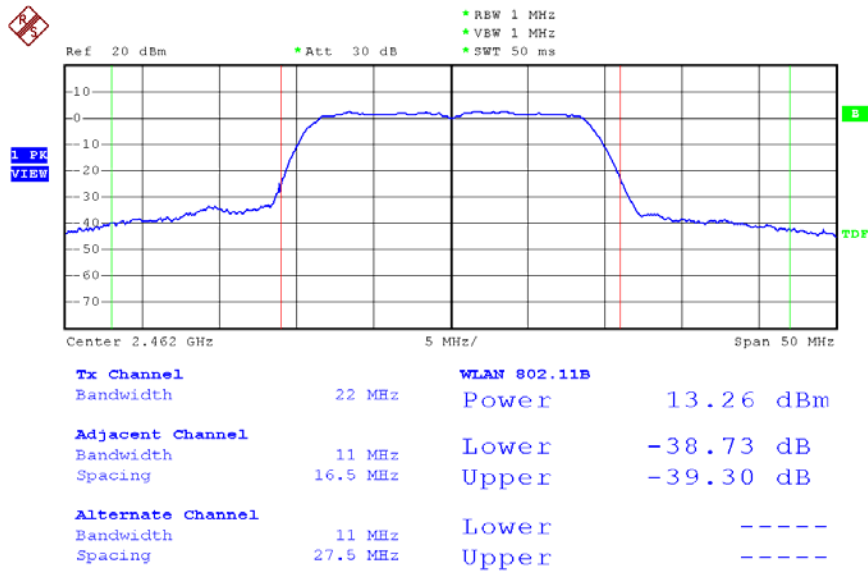
Date: 8.SEP.2006 16:31:44

Channel:06



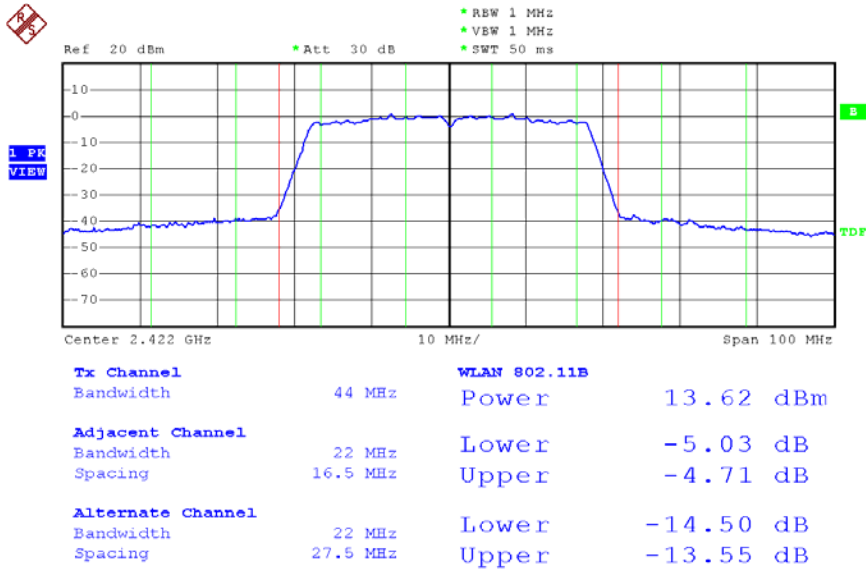
Date: 8.SEP.2006 16:32:29

Channel:11



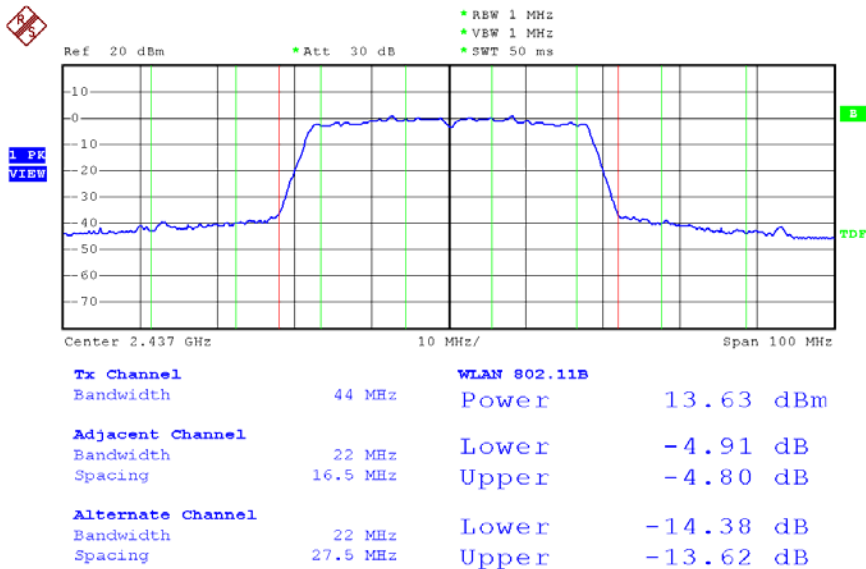
Date: 8.SEP.2006 16:34:31

Modulation Standard: 802.11g MIMO+CB (300Mbps) - TX0
Channel: 03



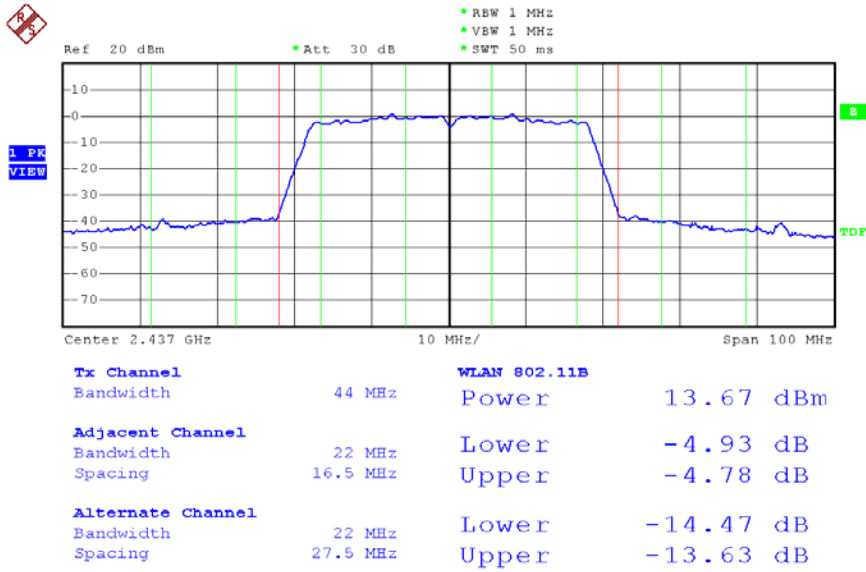
Date: 13.SEP.2006 10:37:33

Channel: 06



Date: 13.SEP.2006 10:41:46

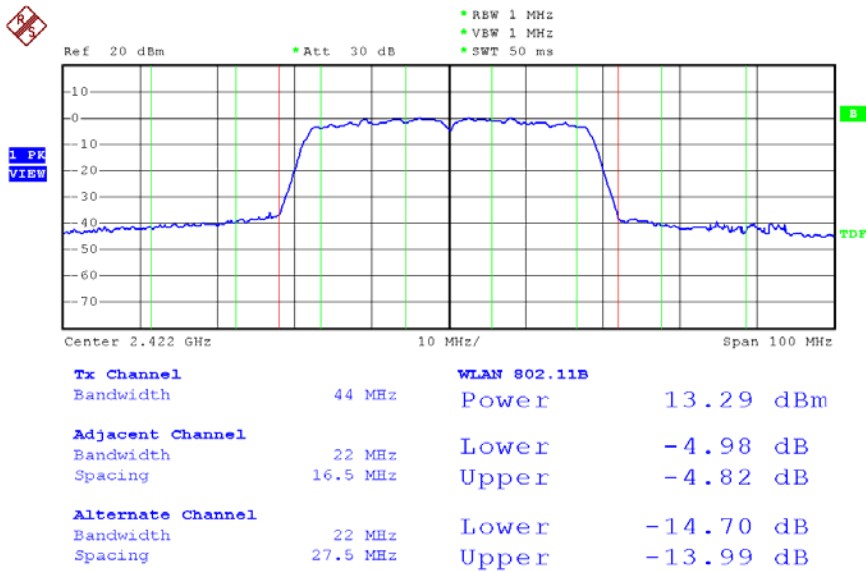
Channel:09



Date: 13.SEP.2006 10:44:24

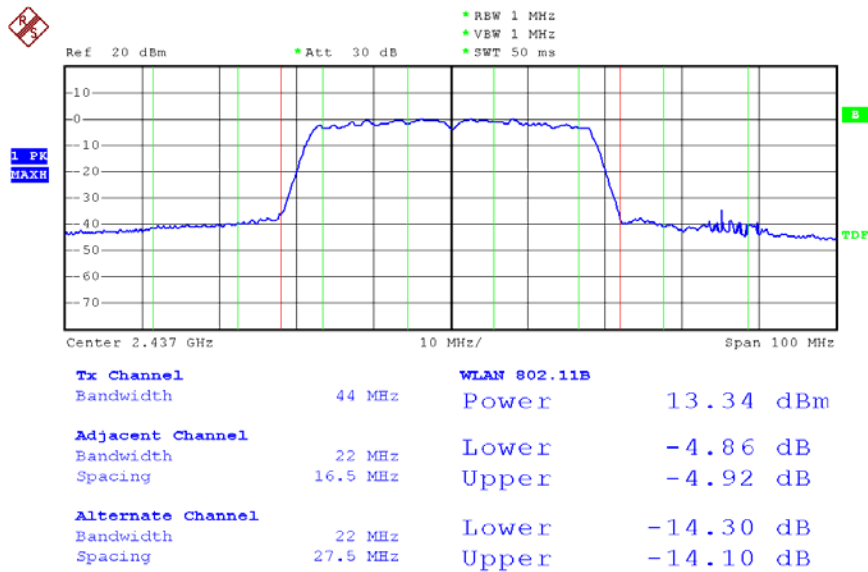
Modulation Standard:802.11g MIMO+CB (300Mbps) - TX1

Channel:03



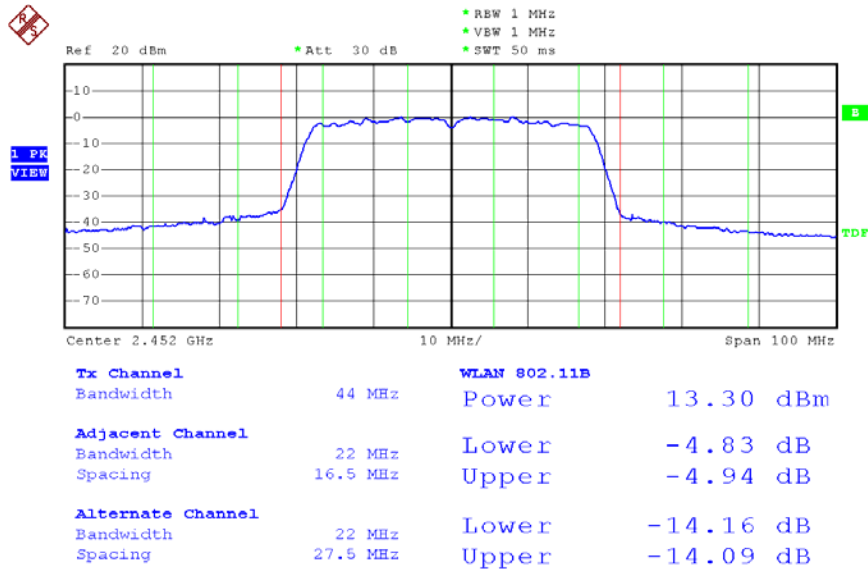
Date: 13.SEP.2006 10:28:47

Channel:06



Date: 13.SEP.2006 10:30:34

Channel:09



Date: 13.SEP.2006 10:34:02

8. Band Edges Measurement

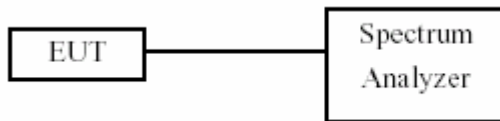
8.1 Test Limit

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

8.2 Test Procedure :

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

8.3 Test Setup Layout



8.4 Measurement equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

8.5 Test Result and Data

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

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2398.60	-46.02
11	2462	2487.50	-52.93

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency	maximum value in frequency (MHz)	maximum value is (dBm)
01	2412	2398.20	-46.26
11	2462	2484.10	-50.79

(3) Modulation Standard: IEEE 802.11g MIMO (144Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency	maximum value in frequency (MHz)		maximum value is (dBm)	
		TX0	TX1	TX0	TX1
01	2412	2398.60	2398.60	-48.30	-46.21
11	2462	2545.00	2483.90	-50.53	-52.46

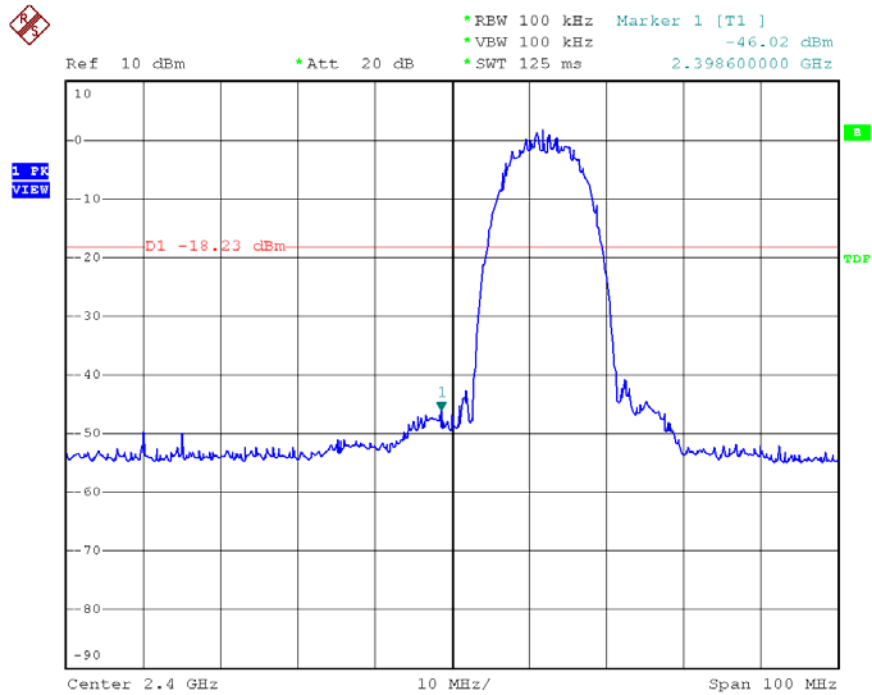
(4) Modulation Standard: IEEE 802.11g MIMO+CB (300Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

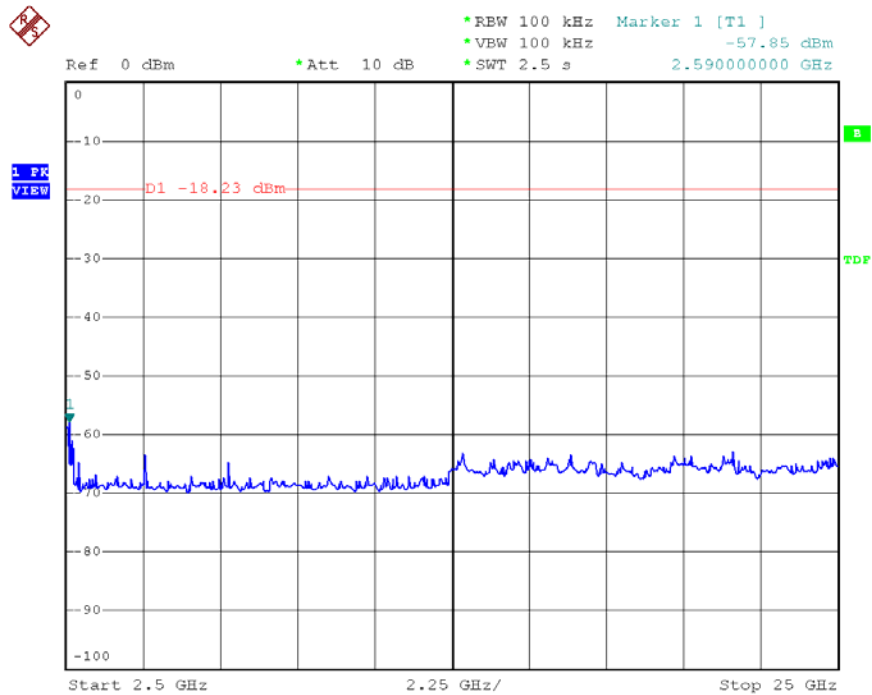
Channel	Frequency	maximum value in frequency (MHz)		maximum value is (dBm)	
		TX0	TX1	TX0	TX1
03	2422	2399.80	2399.40	-50.46	-48.89
09	2452	2520.10	2520.10	-50.98	-56.60

Modulation Standard: 802.11b (11Mbps)

Channel: 01

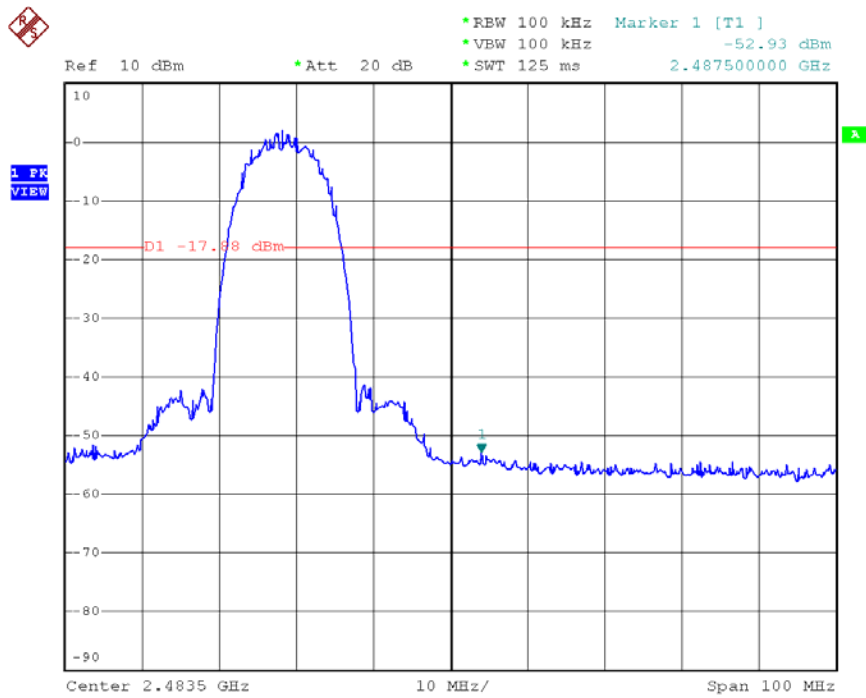


Date: 8.SEP.2006 14:38:51

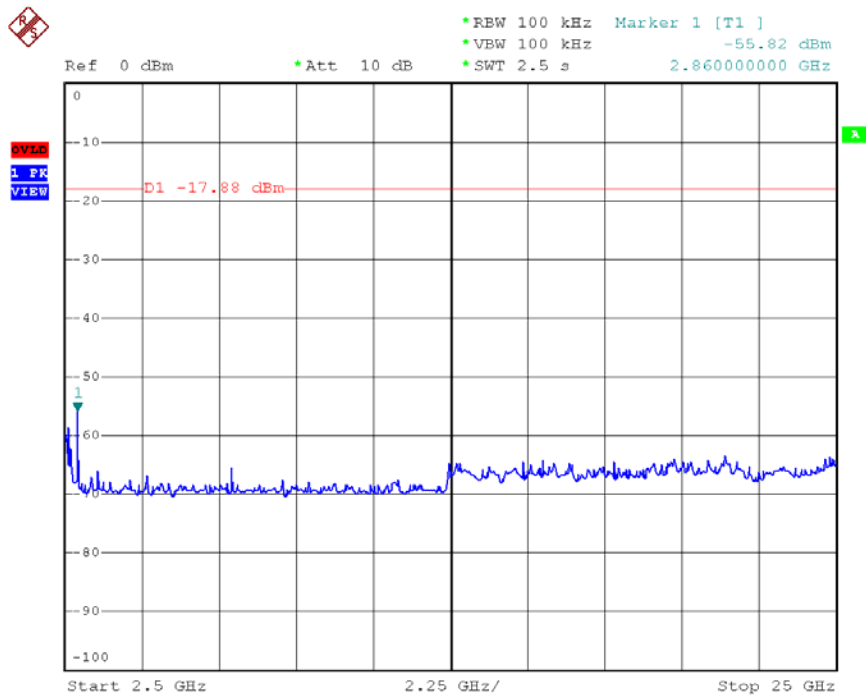


Date: 8.SEP.2006 14:39:41

Channel: 11



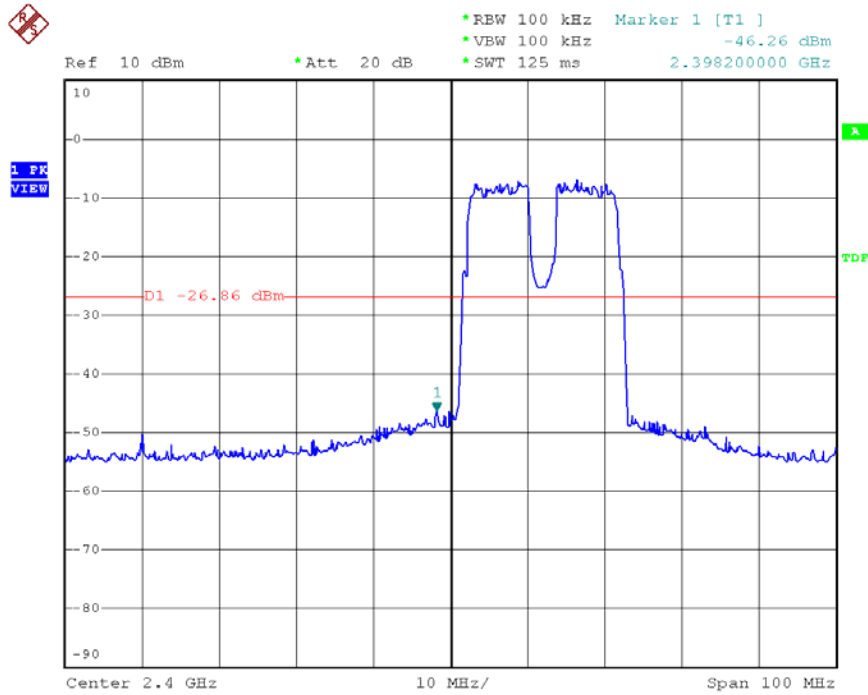
Date: 8.SEP.2006 15:10:29



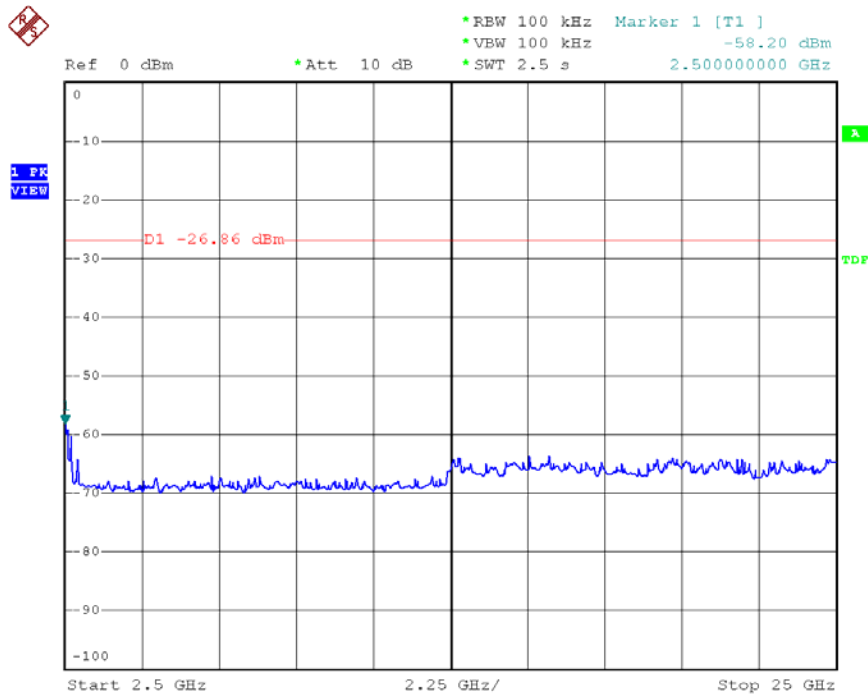
Date: 8.SEP.2006 15:13:53

Modulation Standard: 802.11g (54Mbps)

Channel: 01

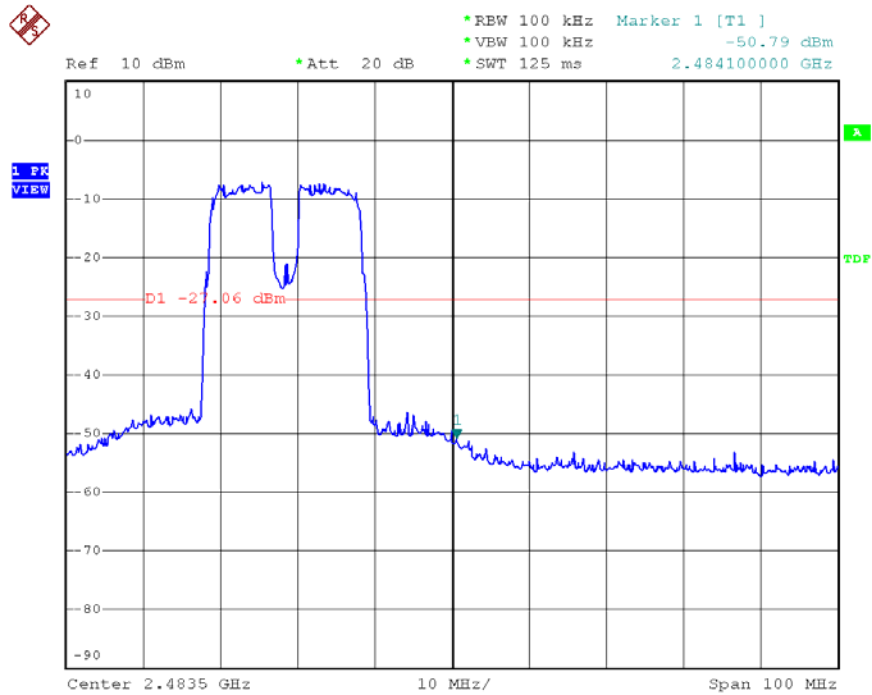


Date: 8.SEP.2006 15:47:37

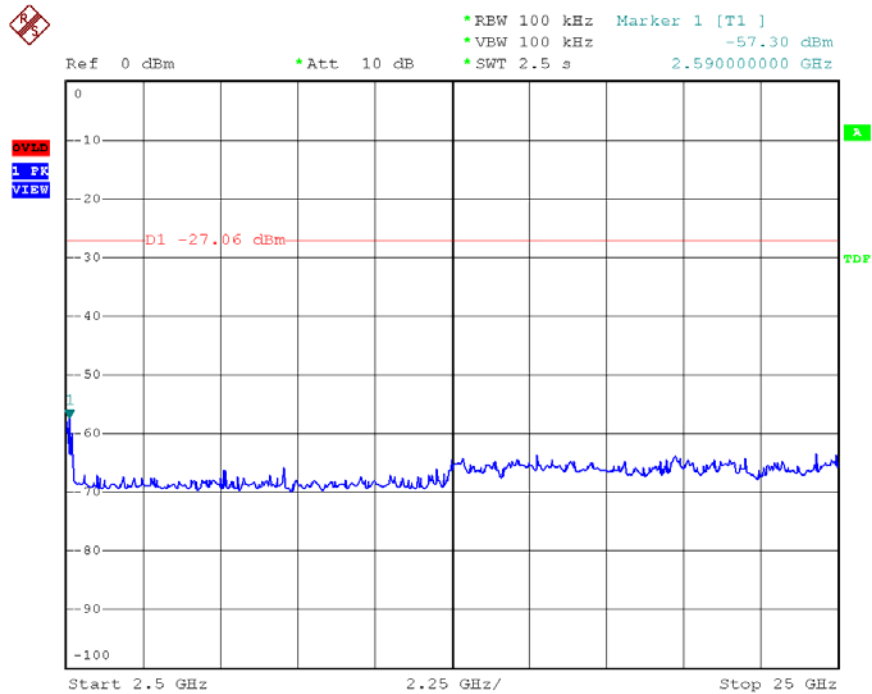


Date: 8.SEP.2006 15:48:33

Channel: 11



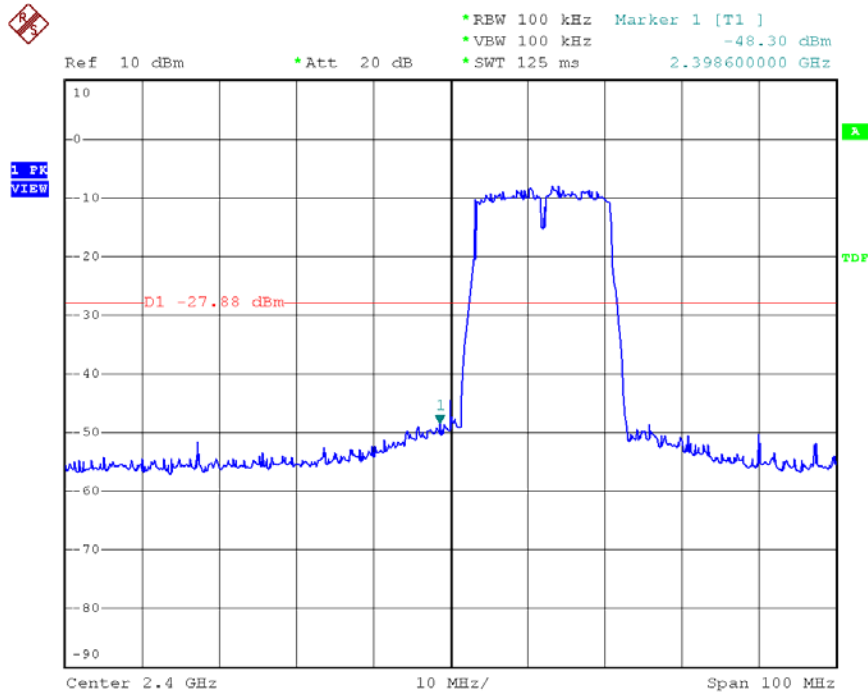
Date: 8.SEP.2006 16:12:56



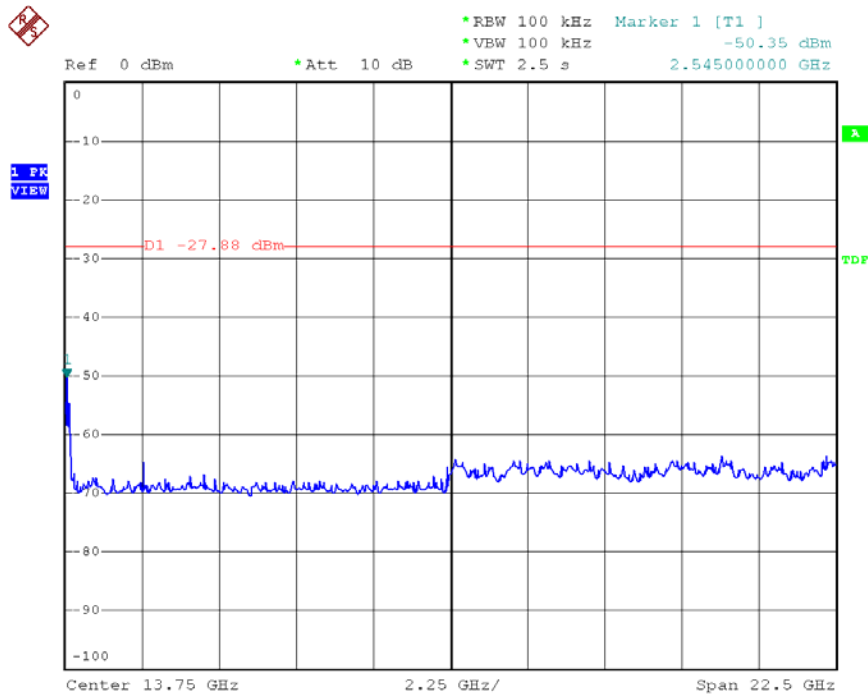
Date: 8.SEP.2006 16:13:57

Modulation Standard: 802.11g MIMO (144Mbps) - TX0

Channel: 01

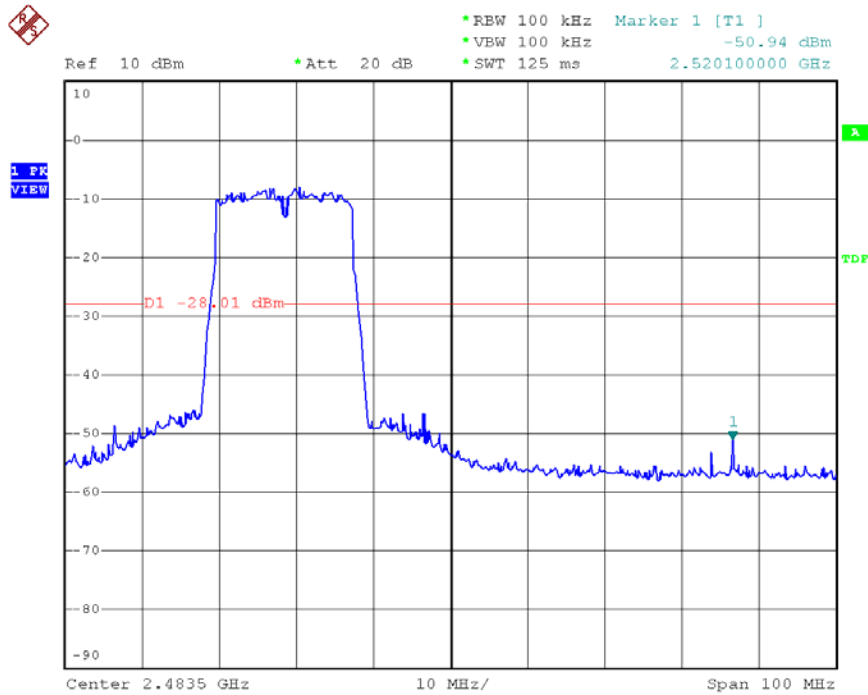


Date: 8.SEP.2006 17:14:03

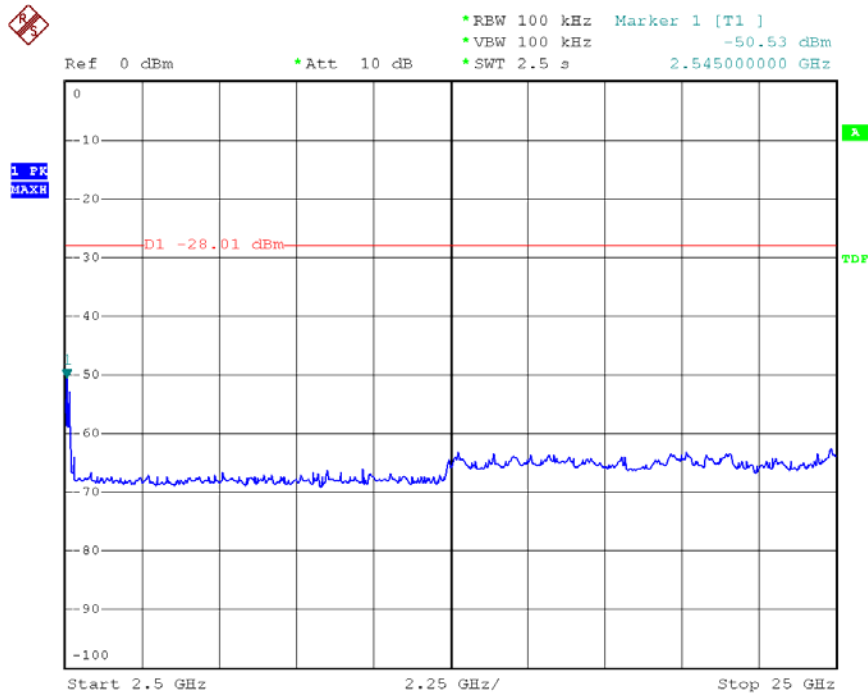


Date: 8.SEP.2006 17:14:54

Channel: 11



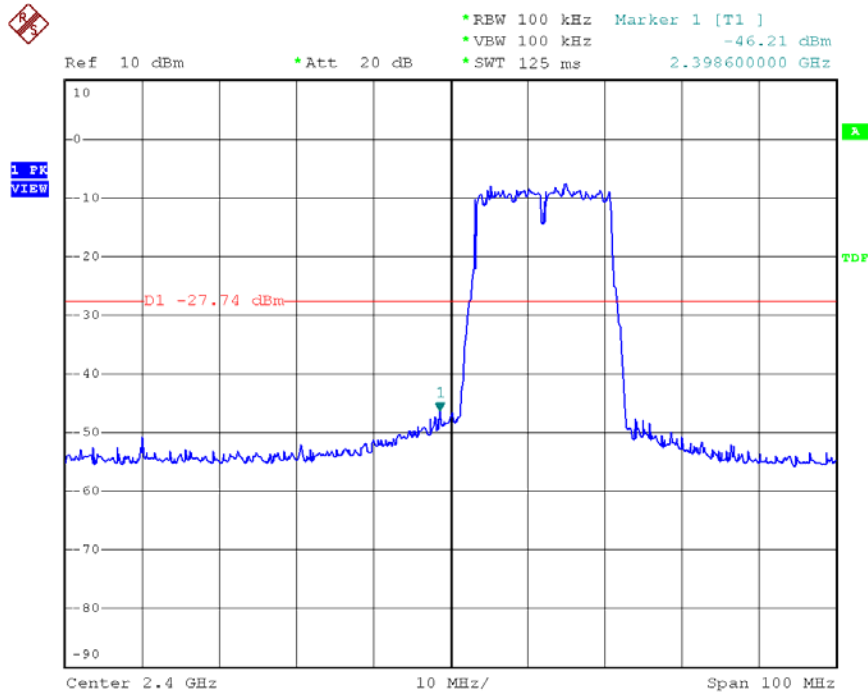
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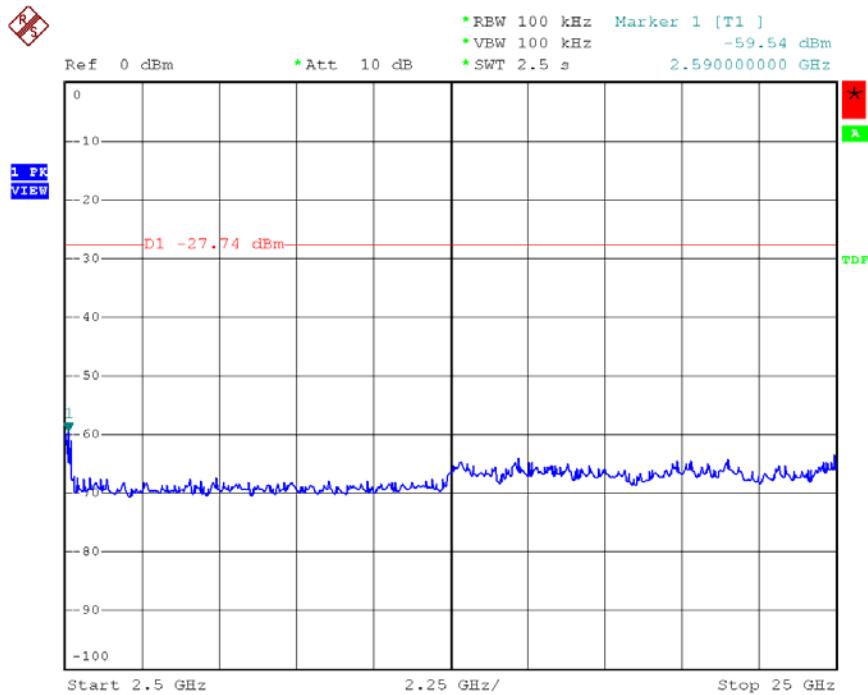
Date: 8.SEP.2006 17:37:26

Modulation Standard: 802.11g MIMO (144Mbps) – TX1

Channel: 01

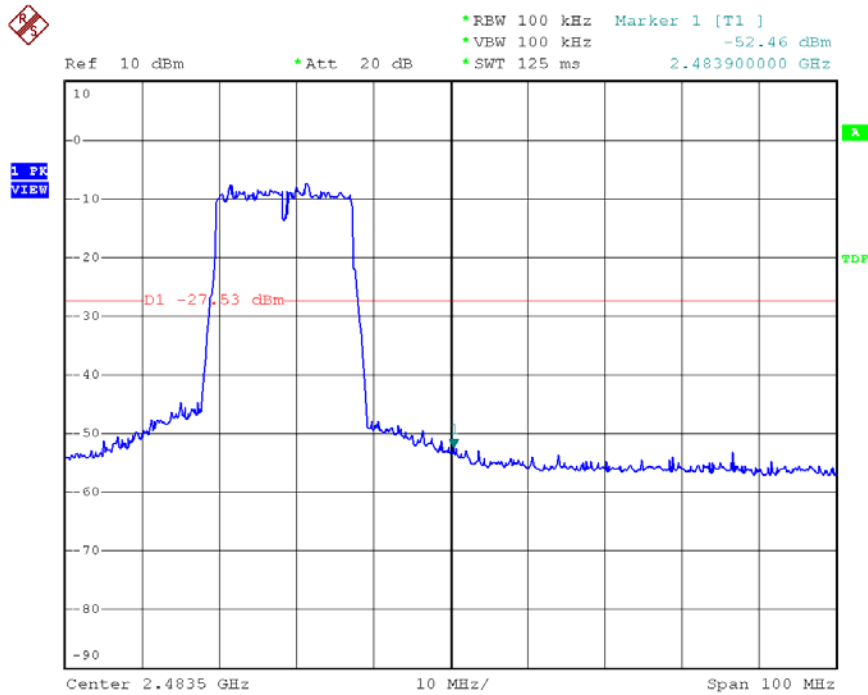


Date: 8.SEP.2006 17:02:20

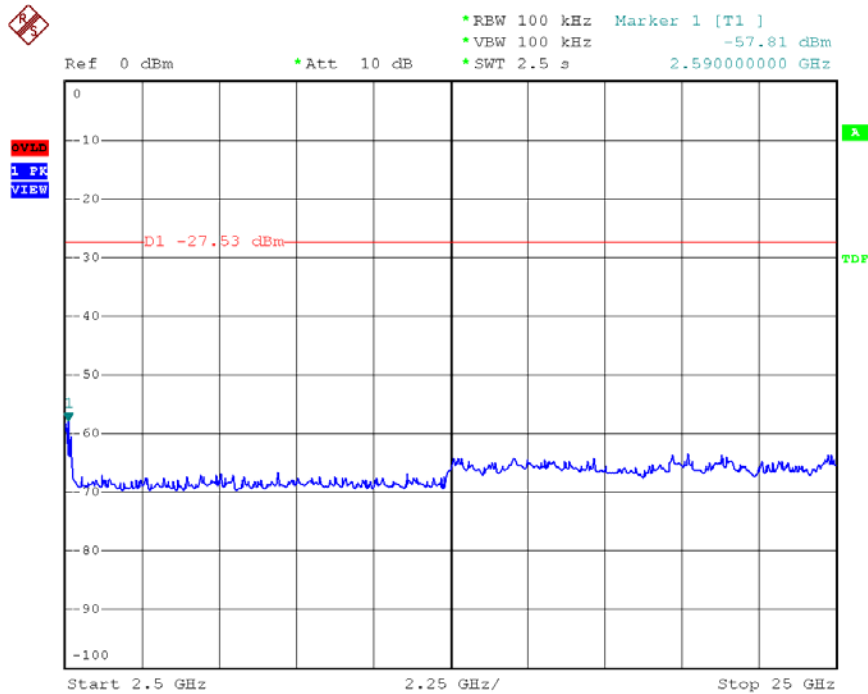


Date: 8.SEP.2006 17:03:06

Channel: 11



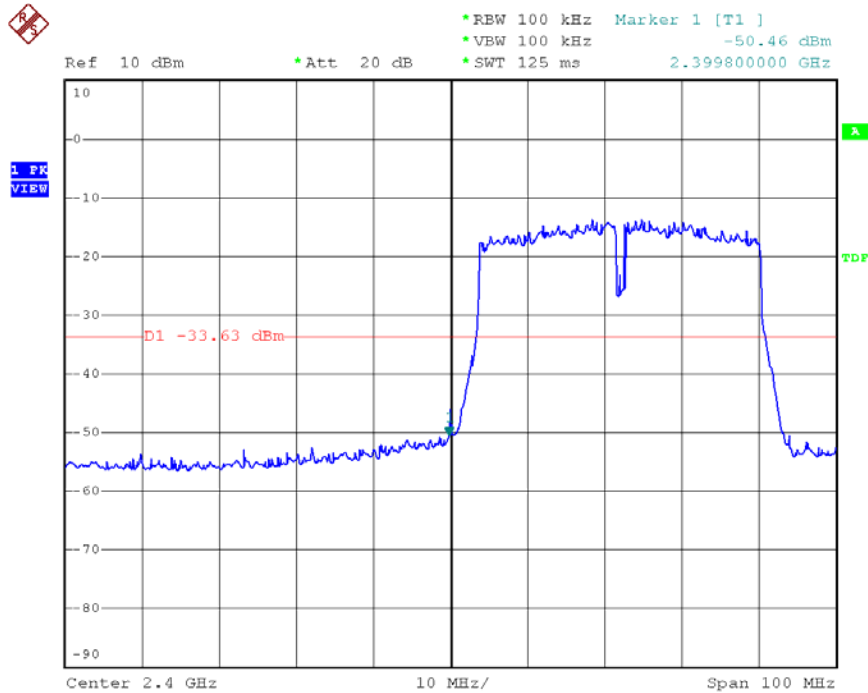
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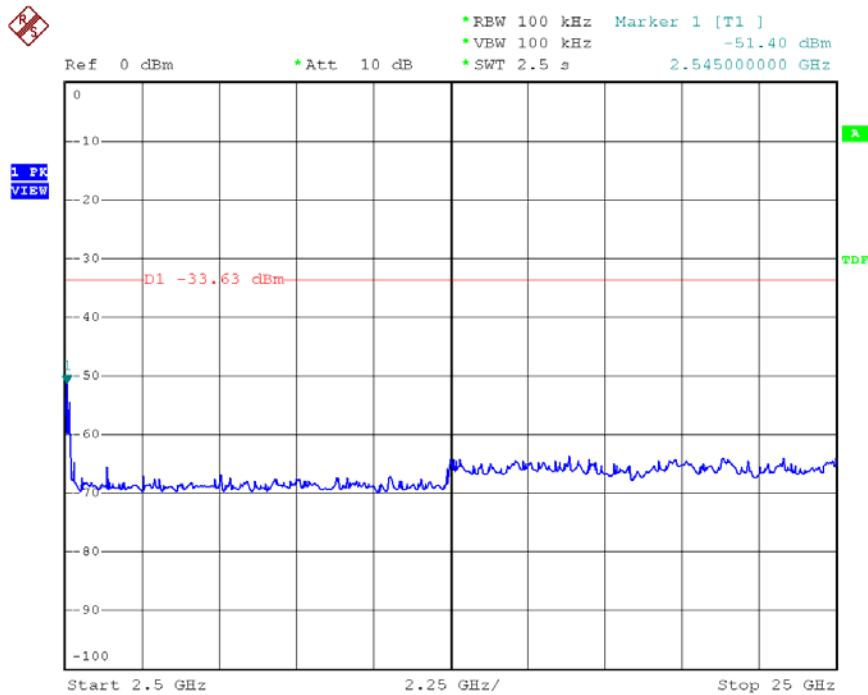
Date: 8.SEP.2006 16:48:53

Modulation Standard: 802.11g MIMO+CB (300Mbps) – TX0

Channel: 03

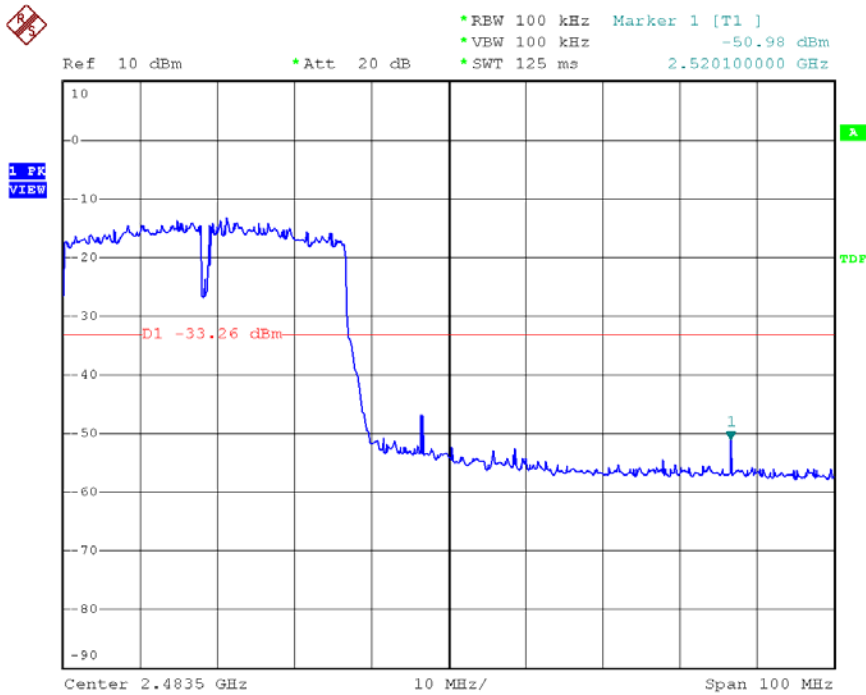


Date: 13.SEP.2006 11:26:11

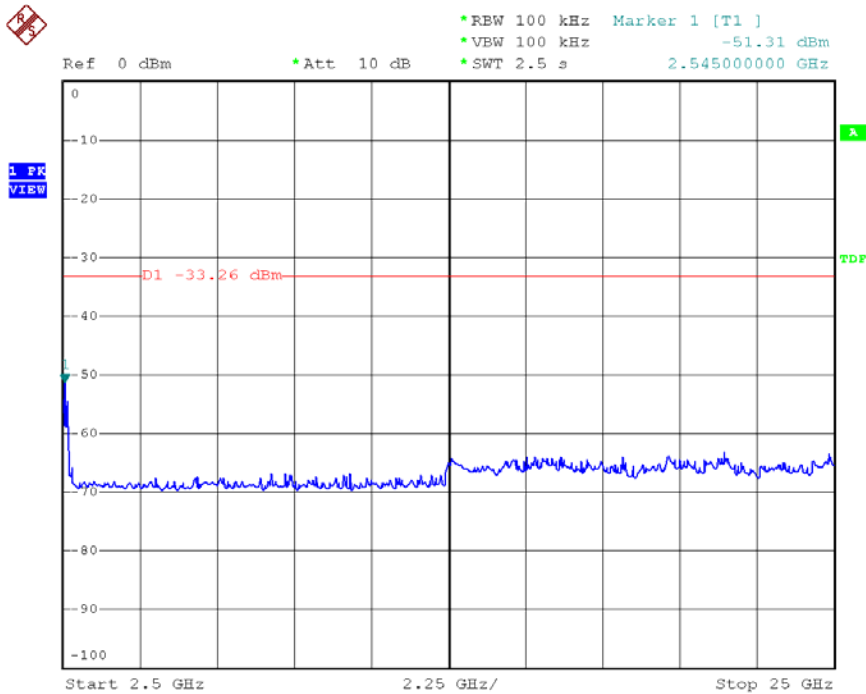


Date: 13.SEP.2006 11:27:09

Channel: 09



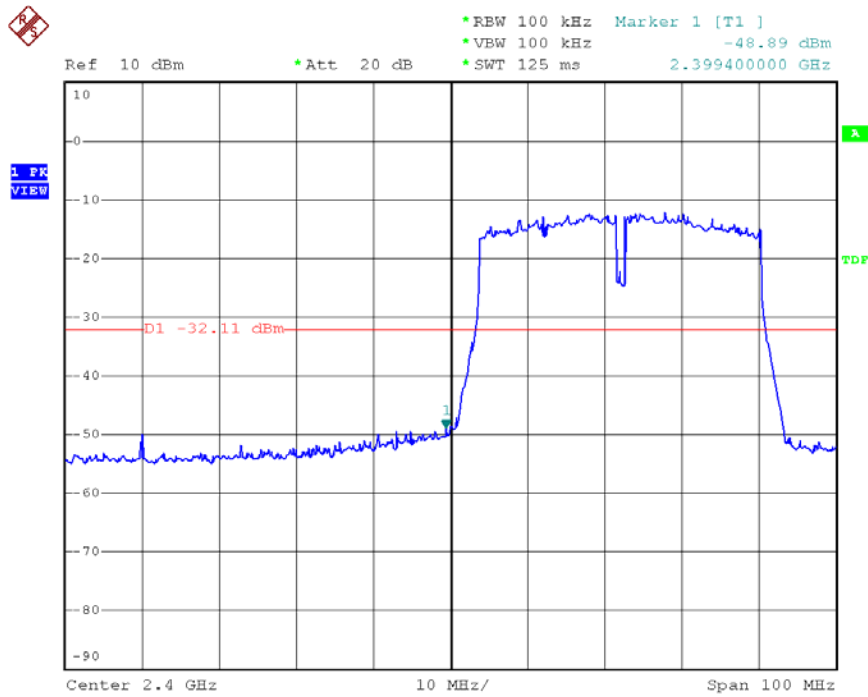
Date: 13.SEP.2006 11:30:35



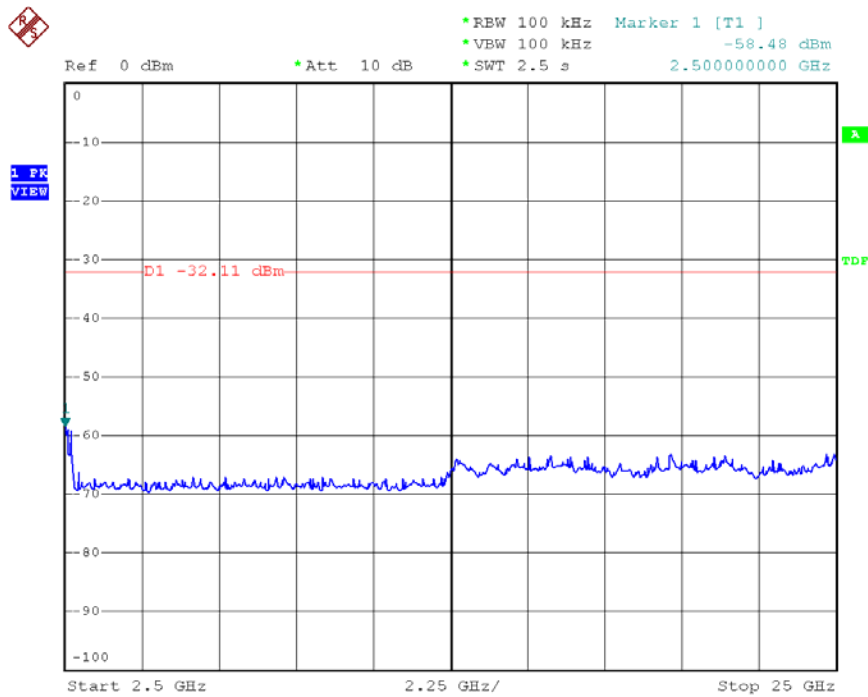
Date: 13.SEP.2006 11:32:04

Modulation Standard: 802.11g MIMO+CB (300Mbps) – TX1

Channel: 01

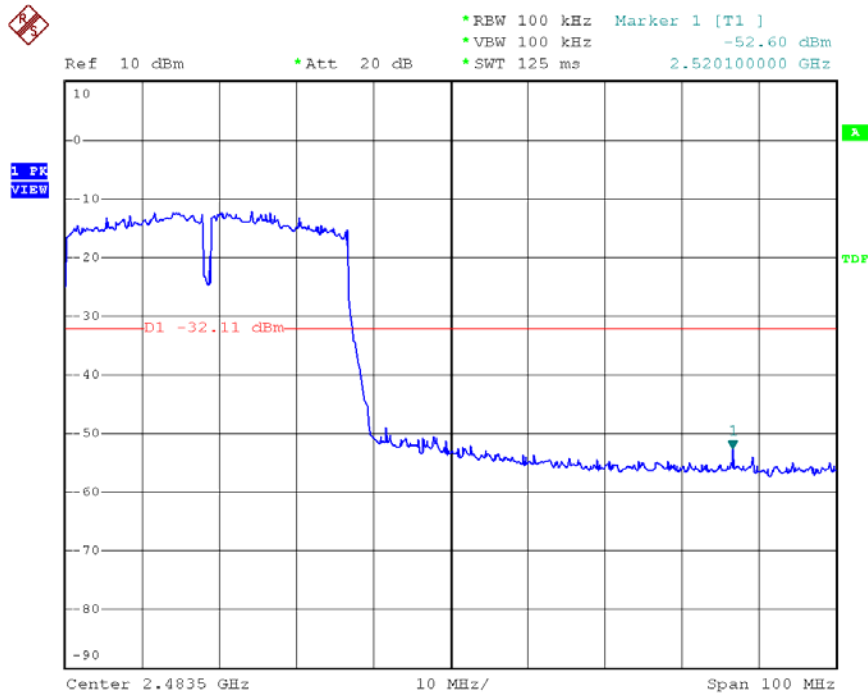


Date: 13.SEP.2006 11:50:46

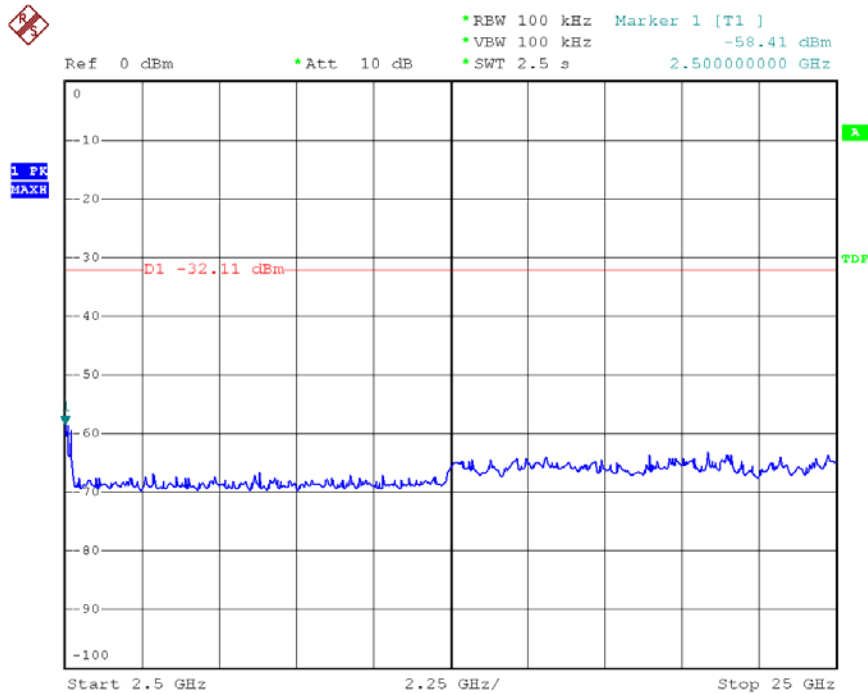


Date: 13.SEP.2006 11:51:39

Channel: 11



Date: 13.SEP.2006 11:54:47



Date: 13.SEP.2006 11:56:10

8.6 Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: Sep. 18, 2006 Temperature: 27°C Humidity: 67% Atmospheric pressure: 1009 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2386.194	H	52.82	-0.76	52.06	Peak	74	54	-21.94	230	1.1
2387.418	H	41.60	-0.76	40.84	Ave	74	54	-13.16	230	1.1
2361.714	V	58.16	-0.84	57.32	Peak	74	54	-16.68	203	1.0
2359.878	V	46.69	-0.85	45.84	Ave	74	54	-8.16	203	1.0

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2488.182	H	51.45	-0.44	51.01	Peak	74	54	-22.99	230	1.1
2487.726	H	38.92	-0.44	38.48	Ave	74	54	-15.52	230	1.1
2485.256	V	51.63	-0.45	51.18	Peak	74	54	-22.82	203	1.0
2483.926	V	40.53	-0.45	40.08	Ave	74	54	-13.92	203	1.0

Modulation Standard: 802.11g (54Mbps)

Test Date: Sep. 18, 2006 Temperature: 27°C Humidity: 67% Atmospheric pressure: 1009 hPa

a) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2388.234	H	58.95	-0.75	58.19	Peak	74	54	-15.81	230	1.1
2389.968	H	46.63	-0.75	45.88	Ave	74	54	-8.12	230	1.1
2389.968	V	60.91	-0.75	60.16	Peak	74	54	-13.84	203	1.0
2389.968	V	49.10	-0.75	48.35	Ave	74	54	-5.65	203	1.0

b) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.926	H	52.11	-0.45	51.66	Peak	74	54	-22.34	230	1.1
2483.508	H	41.81	-0.45	41.36	Ave	74	54	-12.64	230	1.1
2484.002	V	52.28	-0.45	51.83	Peak	74	54	-22.17	203	1.0
2483.622	V	41.00	-0.45	40.55	Ave	74	54	-13.45	203	1.0

Notes:

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

Modulation Standard: IEEE 802.11g MIMO (144Mbps)

Test Date: Sep. 18, 2006 Temperature: 27°C Humidity: 67% Atmospheric pressure: 1009 hPa

c) Channel 1

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2386.704	H	58.51	-0.76	57.75	Peak	74	54	-16.25	230	1.1
2389.968	H	46.65	-0.75	45.90	Ave	74	54	-8.10	230	1.1
2388.438	V	62.01	-0.76	61.25	Peak	74	54	-12.75	203	1.0
2389.968	V	50.83	-0.75	50.08	Ave	74	54	-3.92	203	1.0

d) Channel 11

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2483.622	H	53.25	-0.45	52.80	Peak	74	54	-21.20	230	1.1
2483.508	H	41.74	-0.45	41.29	Ave	74	54	-12.71	230	1.1
2483.622	V	59.10	-0.45	58.65	Peak	74	54	-15.35	203	1.0
2483.508	V	47.37	-0.45	46.92	Ave	74	54	-7.08	203	1.0

Modulation Standard: IEEE 802.11g MIMO+CB (300Mbps)

Test Date: Sep. 18, 2006 Temperature: 27°C Humidity: 67% Atmospheric pressure: 1009 hPa

e) Channel 3

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2389.968	H	60.59	-0.75	59.84	Peak	74	54	-14.16	230	1.1
2389.968	H	48.18	-0.75	47.43	Ave	74	54	-6.57	230	1.1
2389.254	V	62.89	-0.75	62.13	Peak	74	54	-11.87	203	1.0
2389.968	V	51.01	-0.75	50.26	Ave	74	54	-3.74	203	1.0

f) Channel 09

Frequency (MHz)	Ant-Pol H/V	Meter Reading	Corrected Factor	Result (dBuV/m)	Remark	Limit@3m (dBuV/m)		Margin (dB)	Table (Deg.)	Ant High (m)
						Peak	Ave.			
2485.636	H	54.64	-0.45	54.19	Peak	74	54	-19.81	230	1.1
2483.622	H	43.45	-0.45	43.00	Ave	74	54	-11.00	230	1.1
2484.002	V	61.92	-0.45	61.47	Peak	74	54	-12.53	203	1.0
2483.508	V	50.61	-0.45	50.16	Ave	74	54	-3.84	203	1.0

9. Power Spectral Density

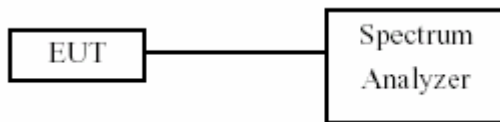
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

- The transmitter output was connected to spectrum analyzer.
- 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.
- The power spectral density was measured and recorded.
- The Sweep time is allowed to be longer than span/3KHz for a full response of the mixer in the spectrum analyzer.

9.3 Test Setup Layout :



9.4 List of Measuring Equipment Used

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Valid Date.
Spectrum Analyzer	FSP40	R&S	100047	2007/01/16

9.5 Test Result and Data

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

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-12.06
06	2437	-11.67
11	2462	-11.74

(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth (dBm)
01	2412	-34.52
06	2437	-36.09
11	2462	-25.35

(3) Modulation Standard: IEEE 802.11g MIMO (144Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

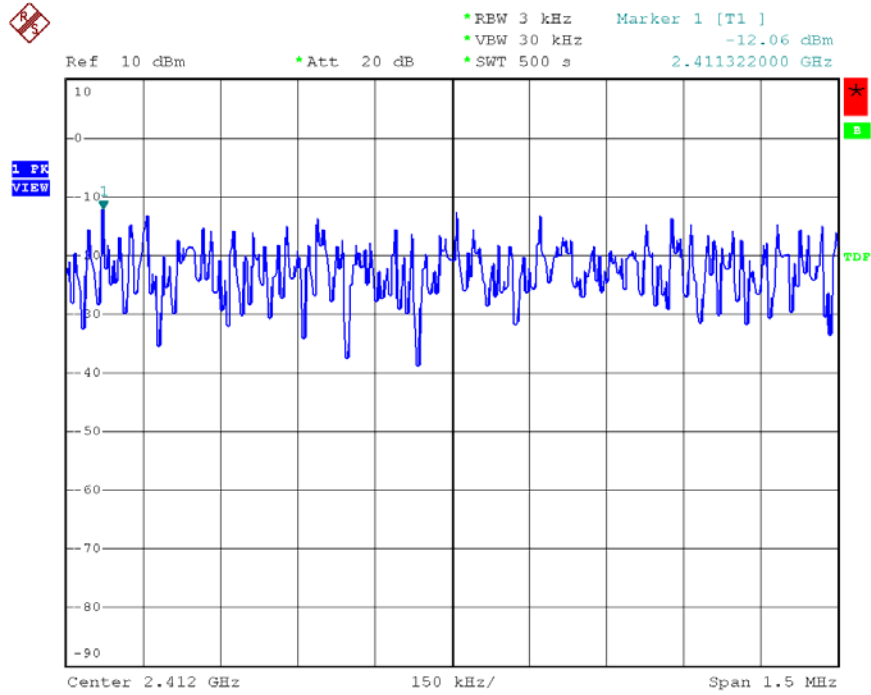
Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth TX0 (dBm)	Maximum Power Density of 3 kHz Bandwidth TX1 (dBm)	Maximum Power Density of 3 kHz Bandwidth Total (dBm)
01	2412	-22.49	-20.51	-18.38
06	2437	-22.56	-20.37	-18.32
11	2462	-22.44	-20.36	-18.27

(4) Modulation Standard: IEEE 802.11g MIMO+CB (300Mbps)

Test Date: Sep. 08, 2006 Temperature: 26°C Humidity: 67% Atmospheric pressure: 1010 hPa

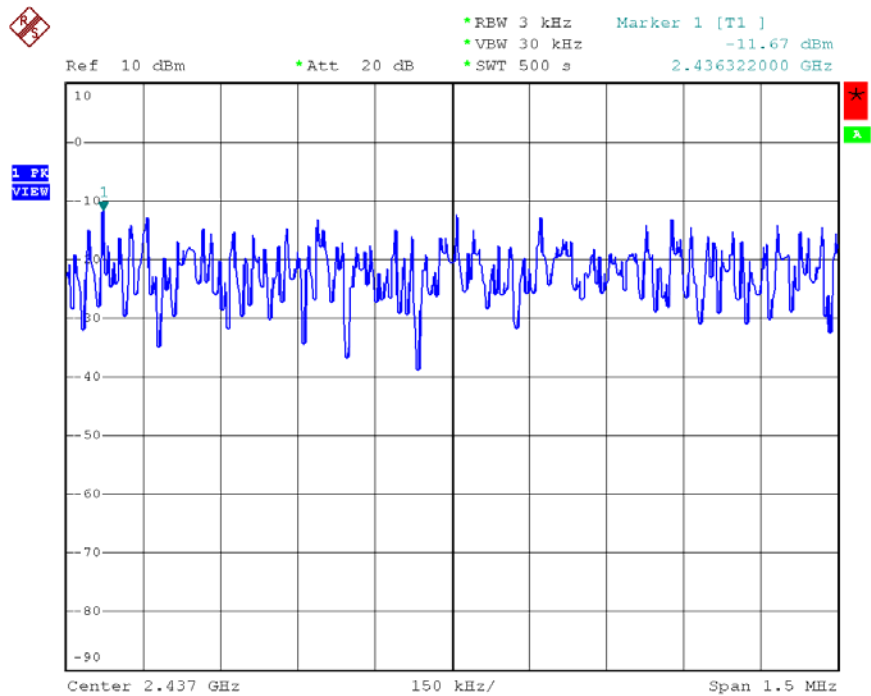
Channel	Frequency	Maximum Power Density of 3 kHz Bandwidth TX0 (dBm)	Maximum Power Density of 3 kHz Bandwidth TX1 (dBm)	Maximum Power Density of 3 kHz Bandwidth Total (dBm)
03	2422	-27.94	-26.00	-23.85
06	2437	-27.89	-25.97	-23.81
09	2452	-27.98	-26.01	-23.87

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



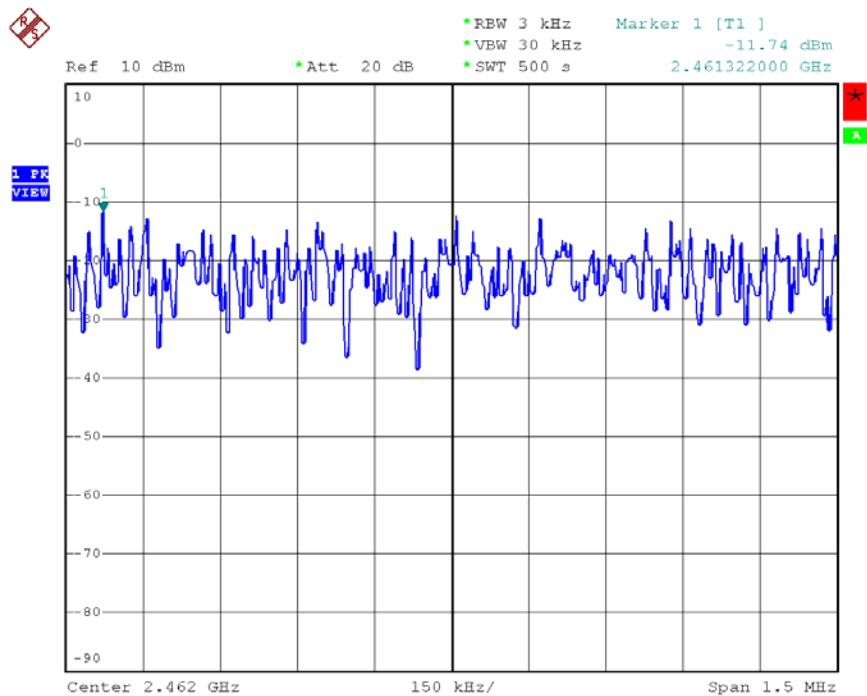
Date: 8.SEP.2006 14:35:05

Channel:06



Date: 8.SEP.2006 14:56:34

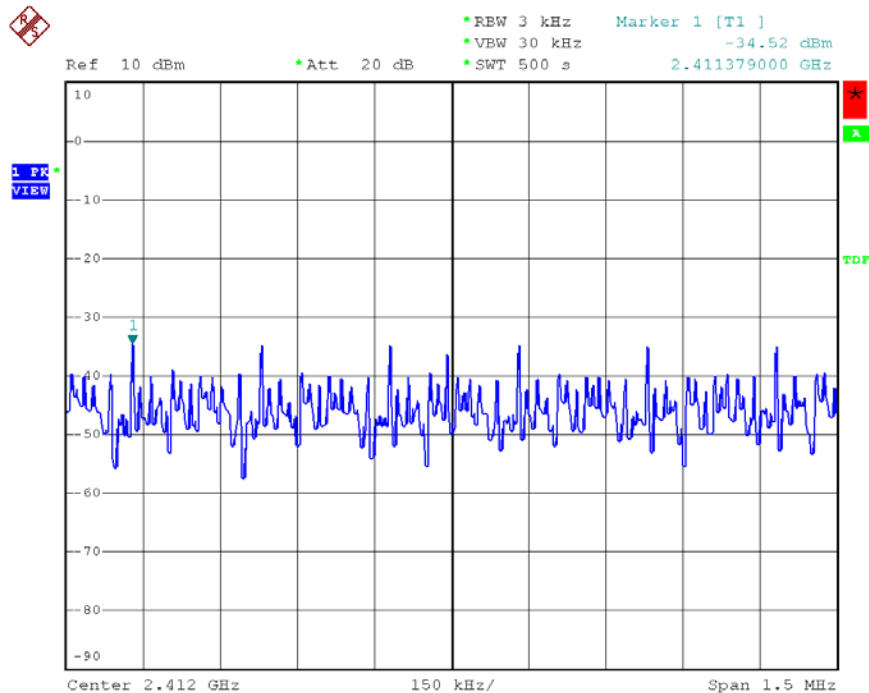
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Date: 8.SEP.2006 15:08:45

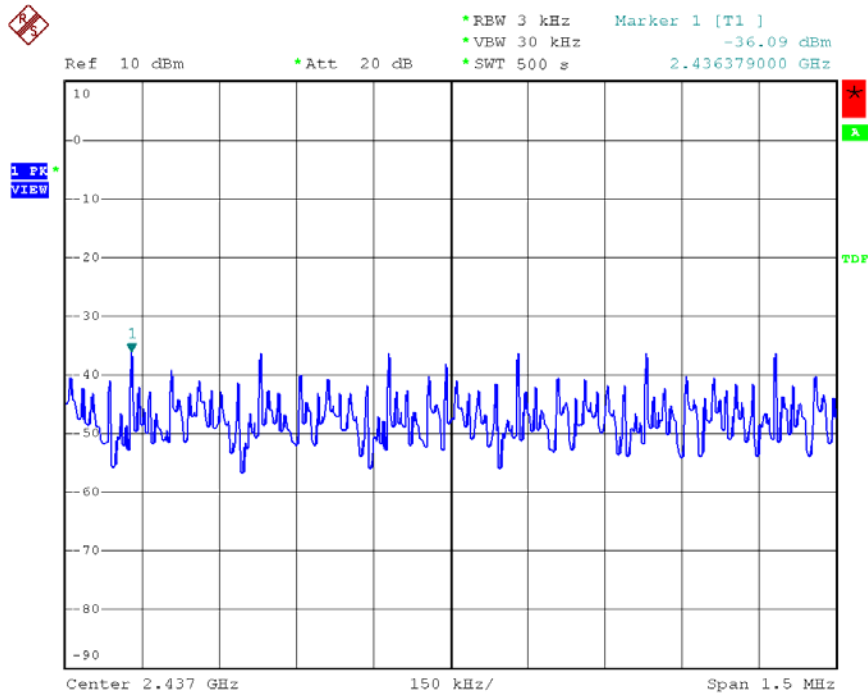
Modulation Standard: 802.11g (54Mbps)

Channel: 01



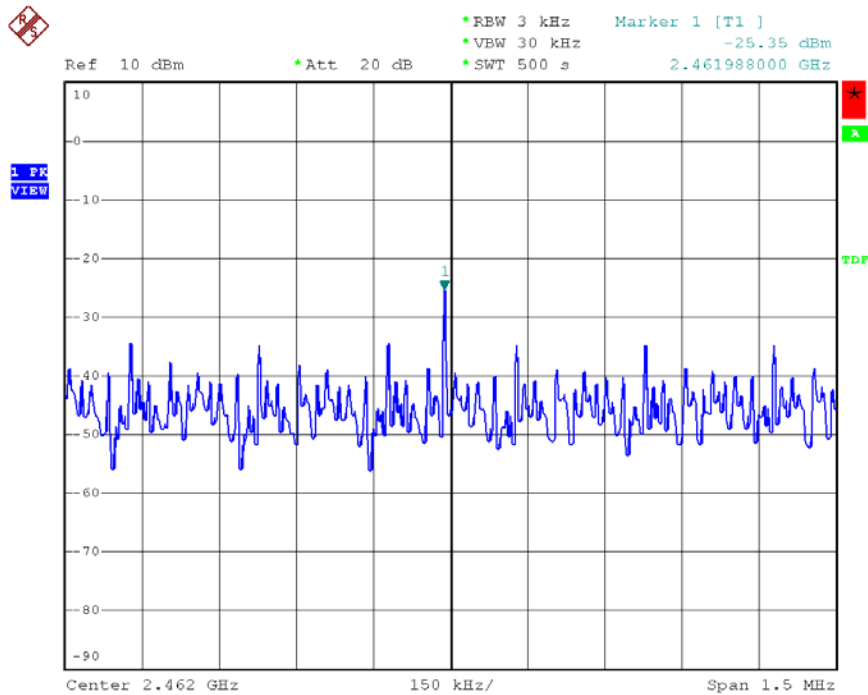
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Channel: 06



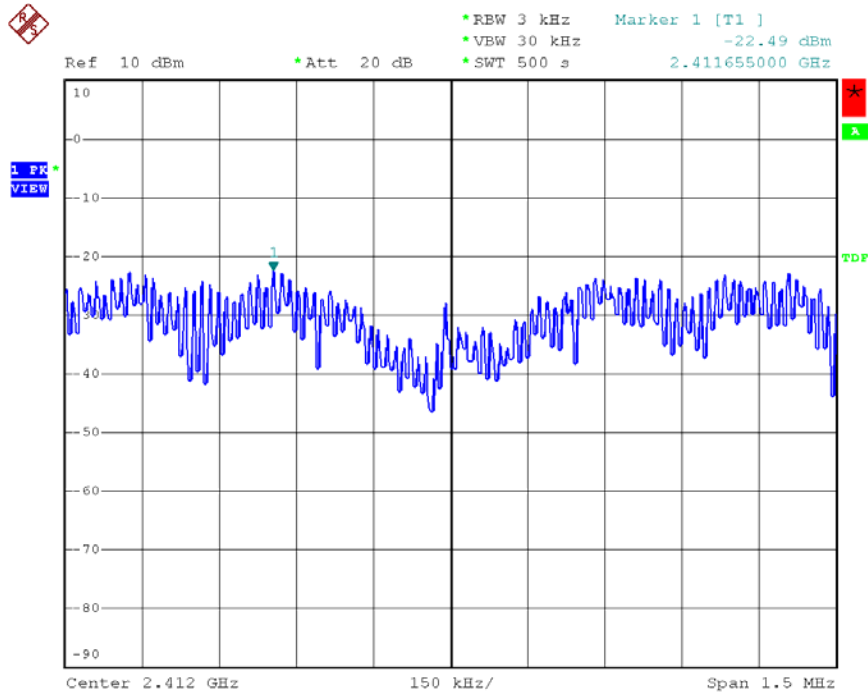
Date: 8.SEP.2006 16:04:36

Channel:11



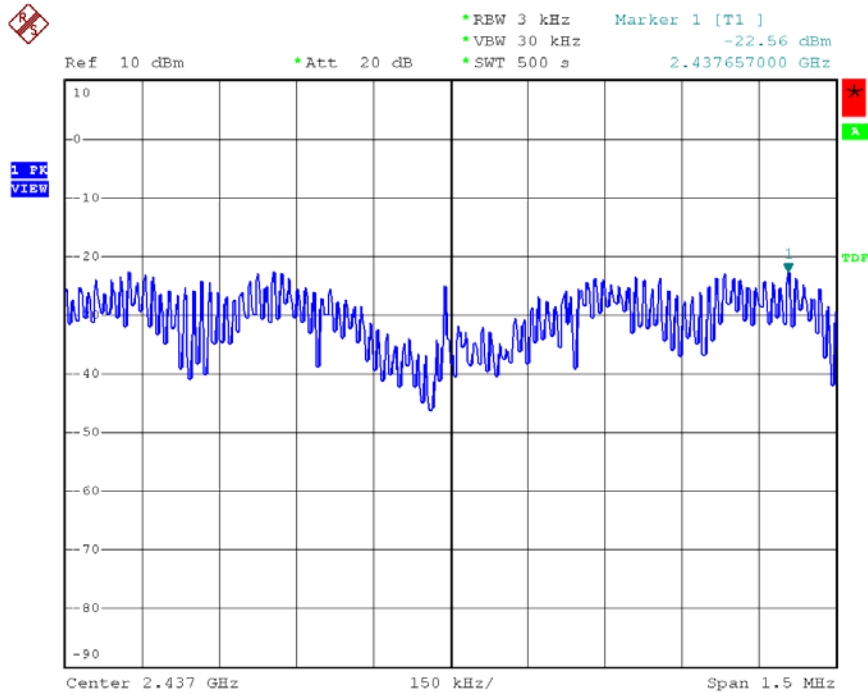
Date: 16.SEP.2006 10:19:49

Modulation Standard: 802.11MIMO (144Mbps) – TX0
Channel: 01



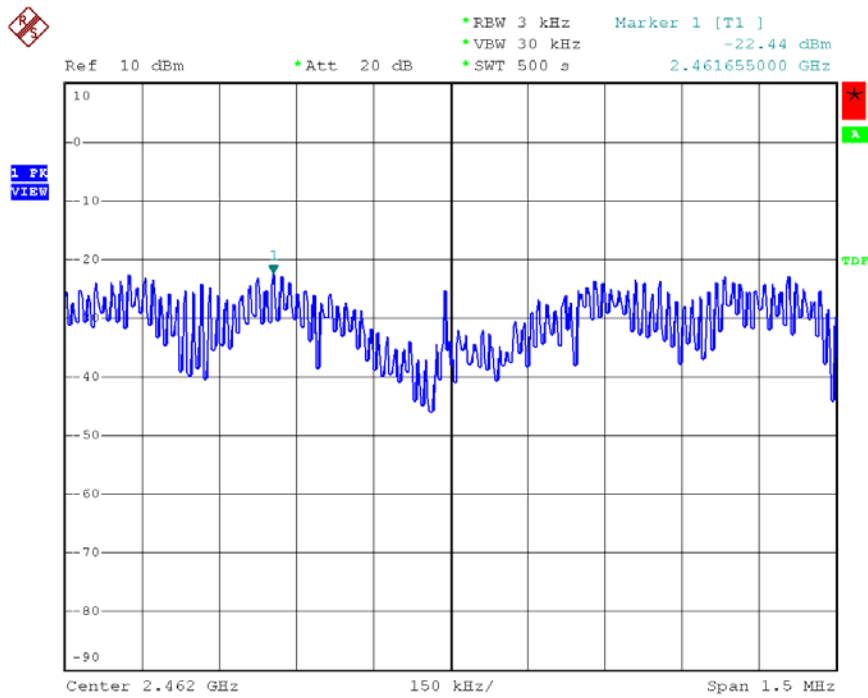
Date: 8.SEP.2006 17:11:21

Channel: 06



Date: 8.SEP.2006 17:28:31

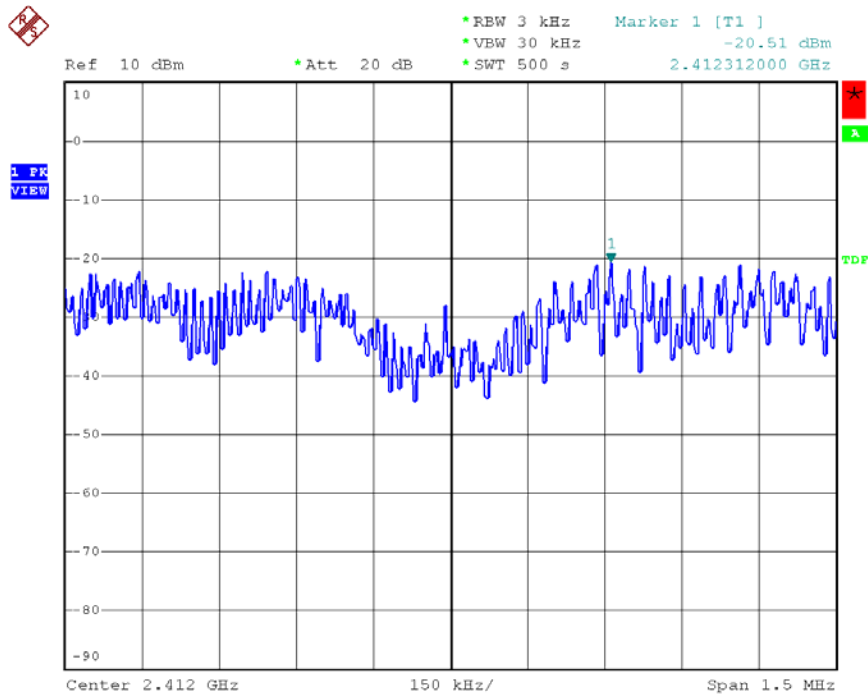
Channel:11



Date: 8.SEP.2006 17:34:08

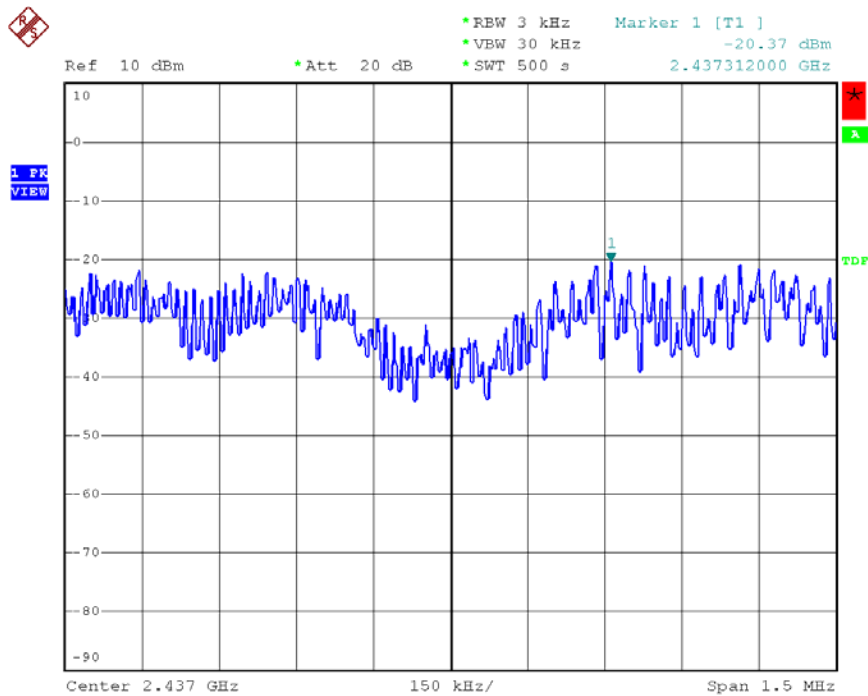
Modulation Standard:802.11MIMO (144Mbps) – TX1

Channel:01



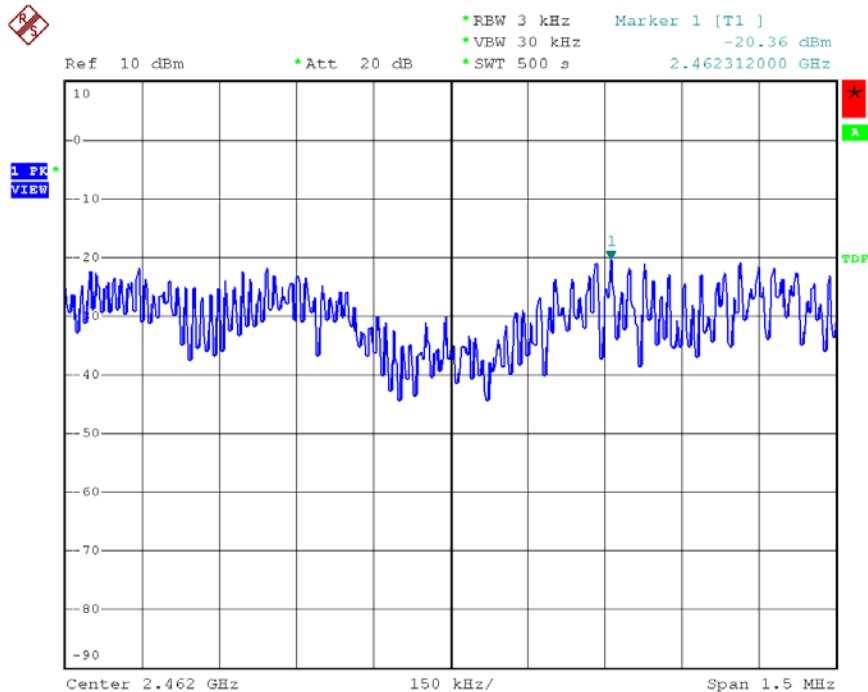
Date: 8.SEP.2006 17:00:47

Channel:06



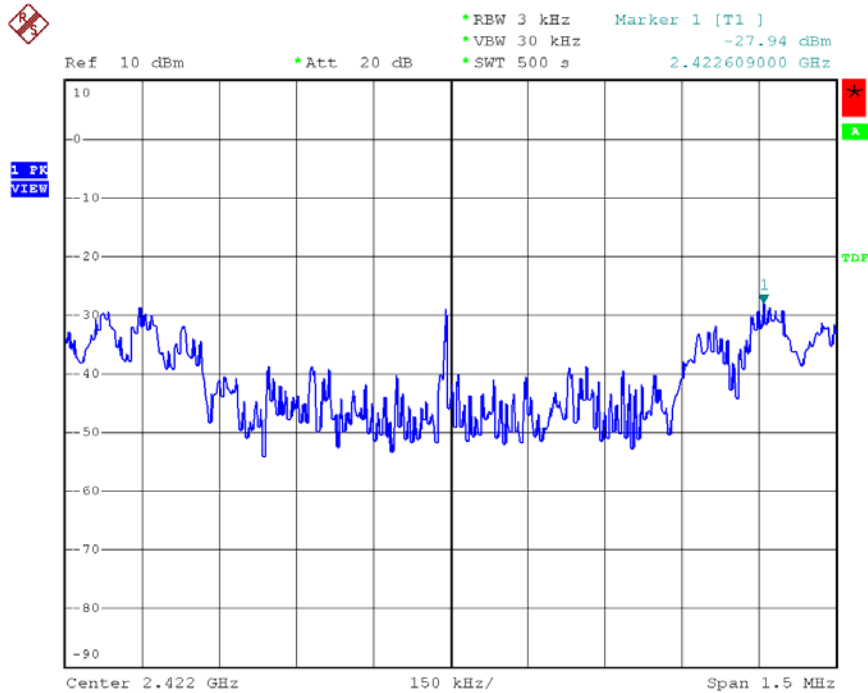
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Channel:11



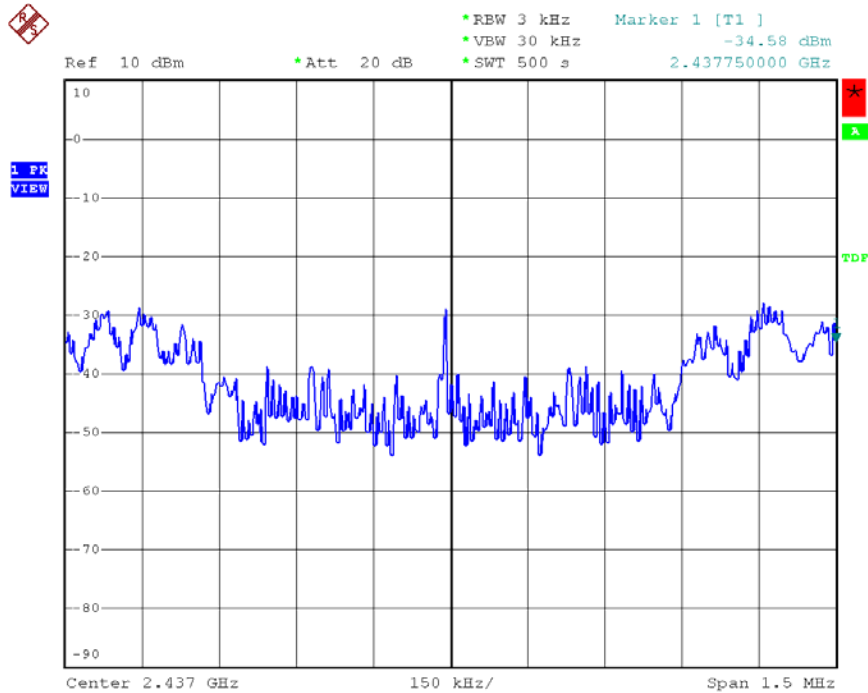
Date: 8.SEP.2006 16:45:07

Modulation Standard: 802.11MIMO+CB (300Mbps) – TX0
Channel: 03



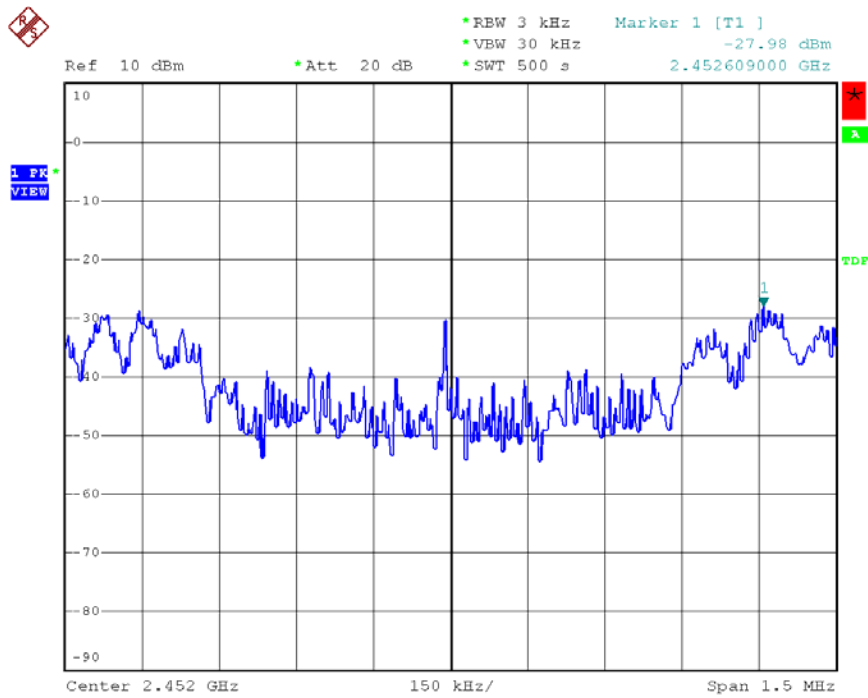
Date: 13.SEP.2006 11:21:26

Channel: 06



Date: 13.SEP.2006 11:15:52

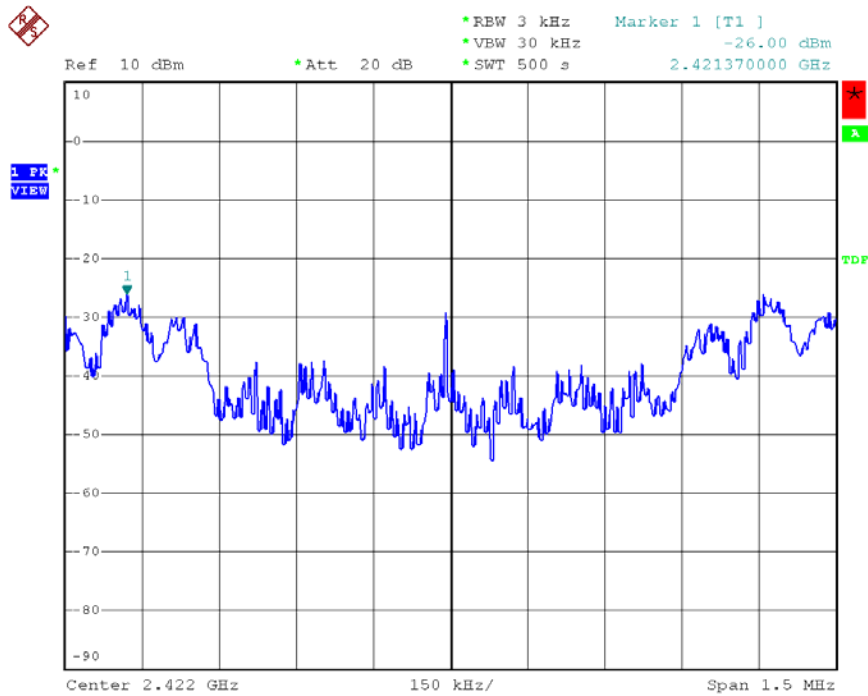
Channel:09



Date: 13.SEP.2006 11:12:56

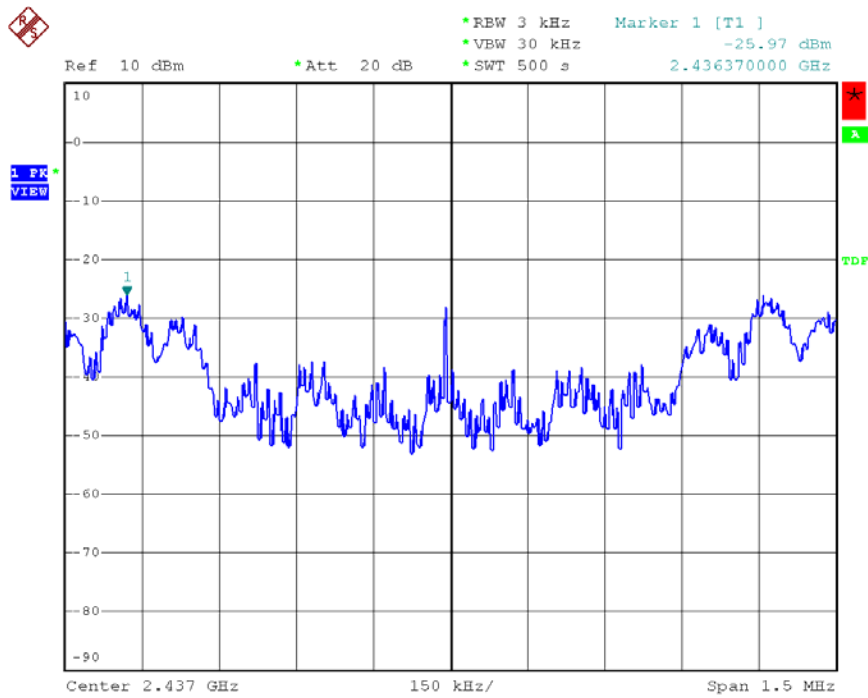
Modulation Standard:802.11MIMO+CB (300Mbps) – TX1

Channel:03



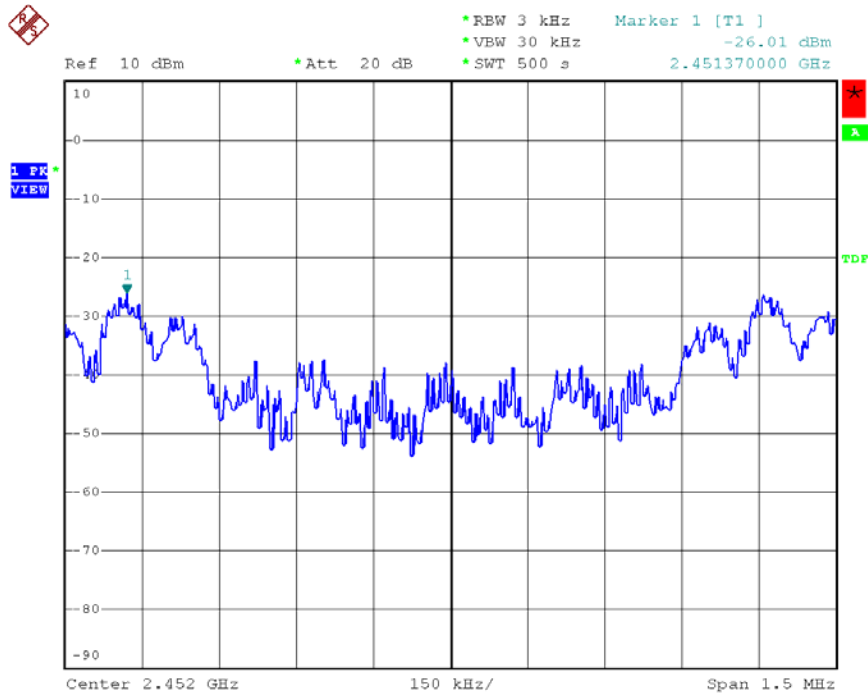
Date: 13.SEP.2006 11:47:16

Channel:06



Date: 13.SEP.2006 11:46:07

Channel:09



Date: 13.SEP.2006 11:43:54

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			

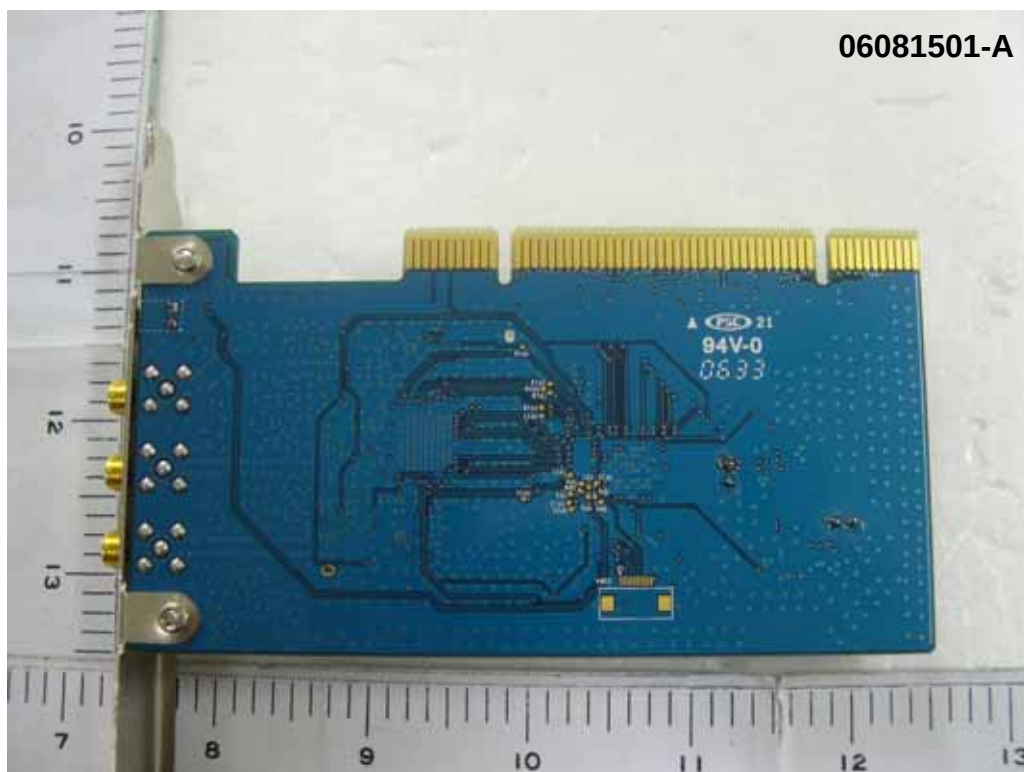
** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

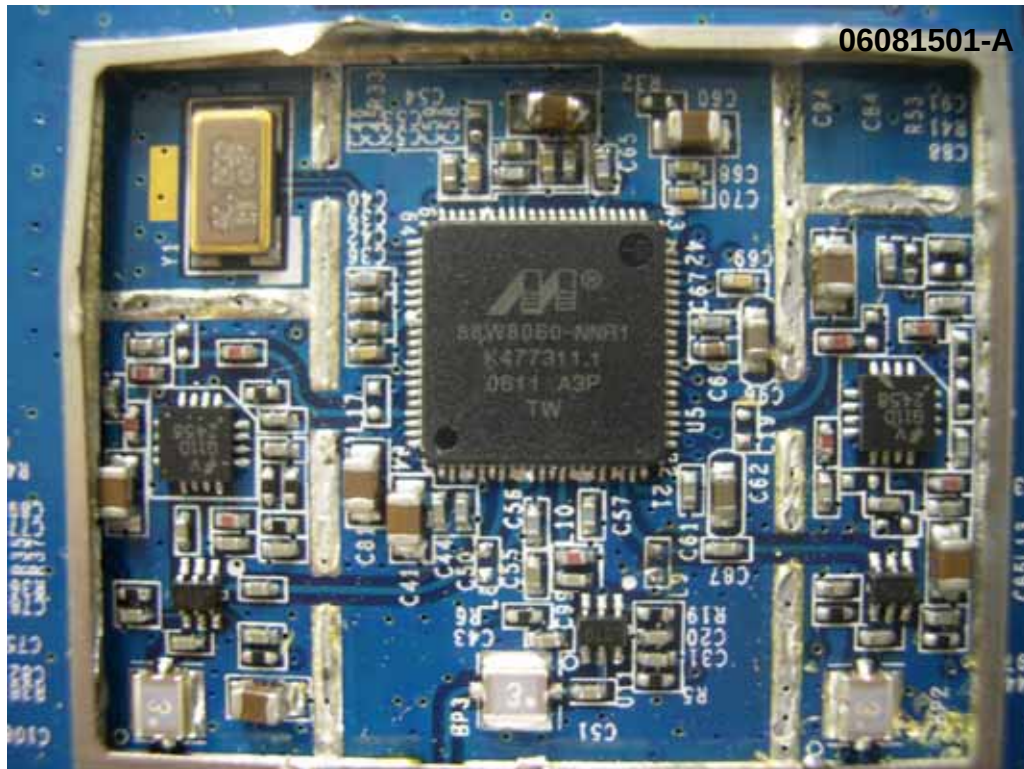
10.1 Labeling Requirement

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





ANTENNA







Certificate No. : L1332-051227

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

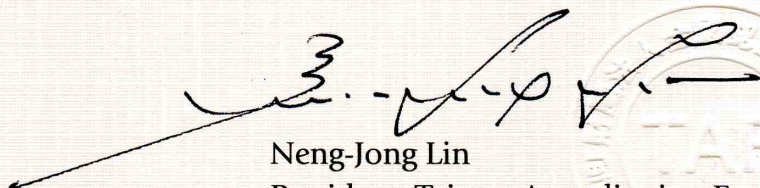
This is to certify that

Exclusive Certification Corp.
ECC Laboratory

4F-2, No.28, Lane 78, Xing-Ai Rd., Neihu District, Taipei City 114, Taiwan (R.O.C.)

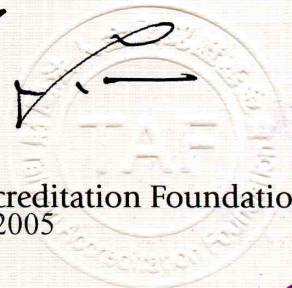
is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:1999
Accreditation Number : 1332
Originally Accredited : December 28, 2004
Effective Period : December 28, 2004 to December 27, 2007
Accredited Scope : Testing Field, see described in the Appendix
Specific Accreditation Program : Accreditation Program for Designated Testing Laboratory
for Commodities Inspection
Accreditation Program for Telecommunication Equipment
Testing Laboratory



Neng-Jong Lin

President, Taiwan Accreditation Foundation
Date : December 27, 2005



FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

February 26, 2004

Registration Number: 632249

Exclusive Certification Corp.
4F-2, No 28, Lang 78, Xing-Ai Rd., Nei-hu
Taipei, 114
Taiwan
Attention: Anson Chou

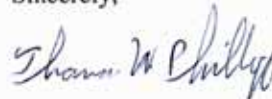
Re: Measurement facility located at Shihding Township
3 & 10 meter site
Date of Listing: February 26, 2004

Dear Sir or Madam:

Your request for registration of the subject measurement facility has been reviewed and found to be in compliance with the requirements of Section 2.948 of the FCC rules. The information has, therefore, been placed on file and the name of your organization added to the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,



Thomas W Phillips
Electronics Engineer