

FCC TEST REPORT

according to

FCC Rules and Regulations

Part 15 Subpart C

| | |
|------------|--|
| Applicant | SerComm Corporation |
| Address | 8F, No. 3-1, YuanQu St., NanKang, Taipei 115 Taiwan, R.O.C. |
| Equipment | Wireless Printing Upgrade Kit |
| Model No. | SDCAB-0603 |
| FCC ID | B94RSVLD0604 |
| Trade Name | HP |

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

FCC Rules and Regulations

Part 15 Subpart C

| | |
|-----------|--|
| Applicant | SerComm Corporation |
| Address | 8F, No. 3-1, YuanQu St., NanKang, Taipei 115 Taiwan, R.O.C. |
| Equipment | Wireless Printing Upgrade Kit |
| Model No. | SDCAB-0603 |
| FCC ID | B94RSVLD0604 |

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 May. 25, 2006 at **Exclusive Certification Corp.**

Signature


Anson Chou / Manager

1. Report of Measurements and Examinations

1.1 List of Measurements and Examinations

| FCC Rule | Description of Test | Result |
|--------------------------------------|--|--------|
| 15.203 | . Antenna Requirement | Pass |
| 15.207 | . Conducted Emission | Pass |
| 15.209 | . 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

- Reliable IEEE 802.11g and b standards-based wireless technology
- 54 Mbps high speed data transfer. Wireless nodes negotiate to operate in the optimal data transfer rate. In a noisy environment or when the distance between the wireless nodes is far, the wireless nodes automatically fall back to operate at lower transfer rates.
- High level of data encryption using 128-bit Shared Key WEP data encryption method. A lower level of data encryption or no data encryption is available to simplify your network setup or to improve data transfer rate.
- WPA PSK (Wi-Fi Protected Access Pre-Shared Key) support.

2.2 RF Specifications

| |
|---|
| Spreading 802.11b: DSSS, CCK, DQPSK, DBPSK 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) |
| Frequency Range 802.11b/g: 2.4 ~ 2.4835GHz |
| Number of Channels USA, Canada and Taiwan: 1 ~ 11 Most European Countries: 1 ~ 13 France: 10 ~ 13 |
| Data Rate 802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps |
| Modulation 802.11g: OFDM 802.11b: CCK, DQPSK, DBPSK |
| Antenna Printed Antenna gain: 0 dBi |
| Transmit Power FCC 802.11b 11 Mbps : 17.5 dBm, +-1.5dBm 802.11g 54 Mbps : 13.5 dBm, +-1.5dBm ETSI (E.I.R.P) 802.11b 11 Mbps : 17.5 dBm, +-1.5dBm 802.11g 54 Mbps : 13.5 dBm, +-1.5dBm |

2.3 Test Mode and Test Software

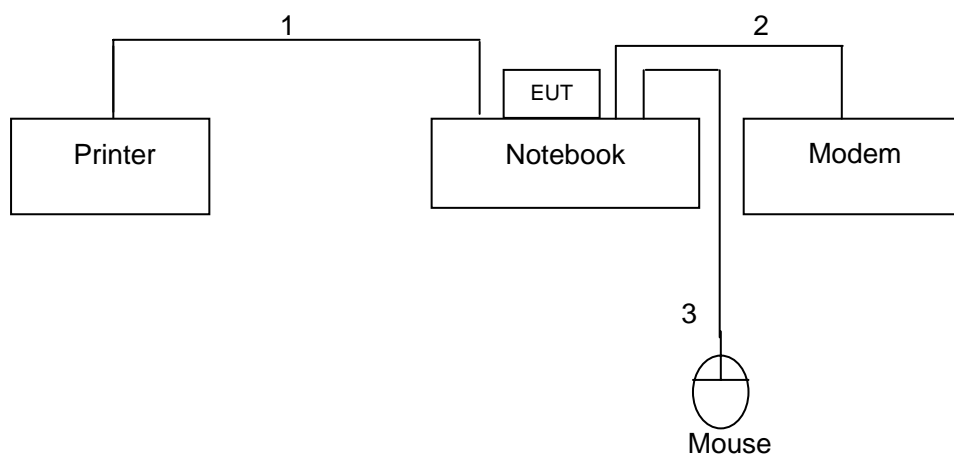
The following test mode and test software was performed for conduction and radiation test:

- 802.11b (CH01: 2412MHz) • 802.11b (CH06: 2437MHz) • 802.11b (CH11: 2462MHz)
- 802.11g (CH01: 2412MHz) • 802.11g (CH06: 2437MHz) • 802.11g (CH11: 2462MHz)
- An executive programs, "MP8187VC.exe" Application under WIN XP.

2.4 Description of Test System

| Device | Manufacturer | Model No. | Description |
|----------|--------------|-------------|--|
| Mouse | IBM | MO28VO | Data Cable, USB shielding 1.85 m |
| Notebook | DELL | 510m | Power Cable, Adapter Unshielding 1.8 m |
| Modem | ACEXX | DM-1414 | Power Cable, Adapter Unshielding 1.8 m Data Cable, RS232 Unshielding 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 Notebook to the Printer
2. The I/O cable is connected from Notebook to the Modem
3. The I/O cable is connected from Notebook to the Mouse

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

The Model No.: Q6236A (Report No: FI06032705-A) and Model No.: SDCAB-0603 (Report No: FI06032705-B) are the same and they only differ from the Model No.

3. Antenna Requirements

3.1 Standard Applicable

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

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

3.2 Antenna Construction and Directional Gain

Antenna type: Printed Antenna

Antenna Gain: 0dBi.

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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.

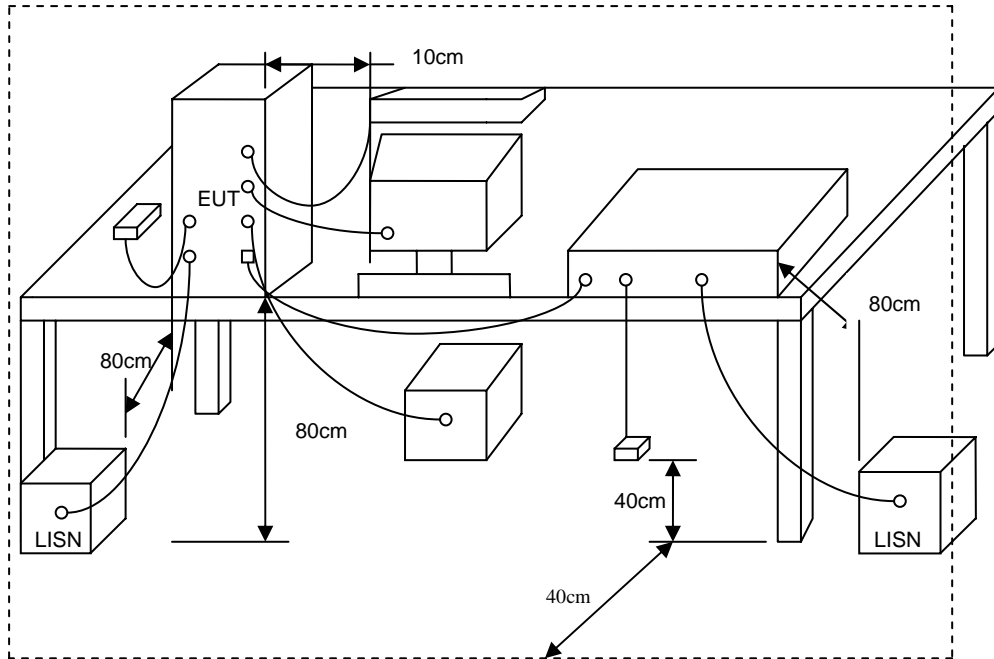
| Frequency (MHz) | Quasi Peak (dB μ V) | Average (dB μ V) |
|-----------------|-------------------------|----------------------|
| 0.15 – 0.5 | 66-56* | 56-46* |
| 0.5 – 5.0 | 56 | 46 |
| 5.0 – 30.0 | 60 | 50 |

*Decreases with the logarithm of the frequency.

4.2 Test Procedures

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

4.3 Typical Test Setup

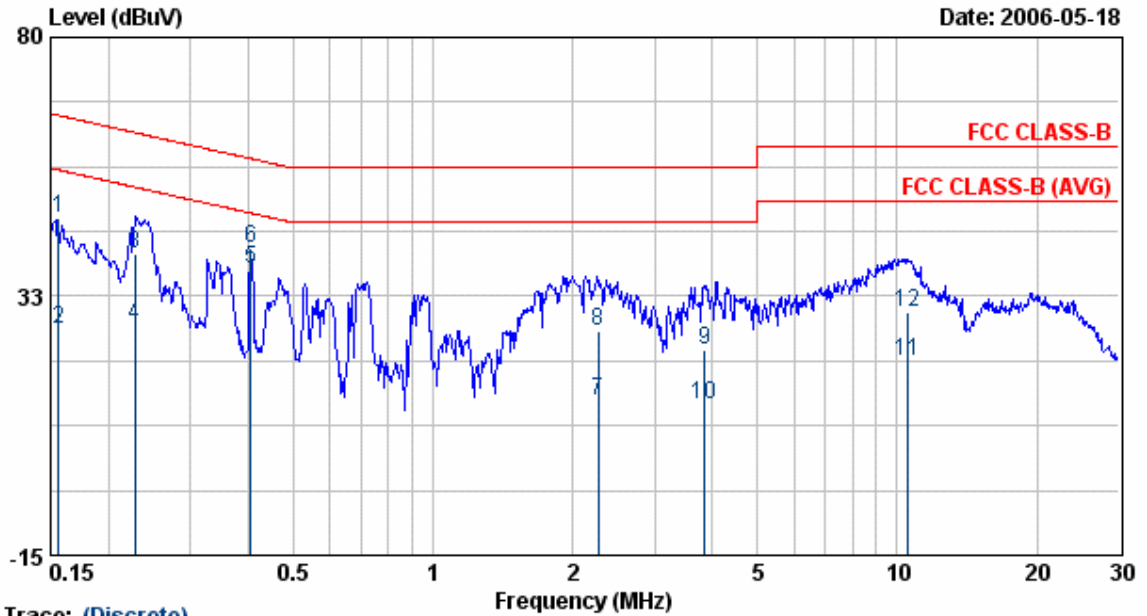


4.4 Measurement equipment

| Instrument/Ancillary | Model No. | Manufacturer | Serial No. | 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

EUT : Q6236A(for Dongle)
 Power : DC 5V from PC
 Test Mode : 802.11g CH1
 Memo :
 Pol/Phase : NEUTRAL
 Temperature : 25 °C
 Humidity : 56 %



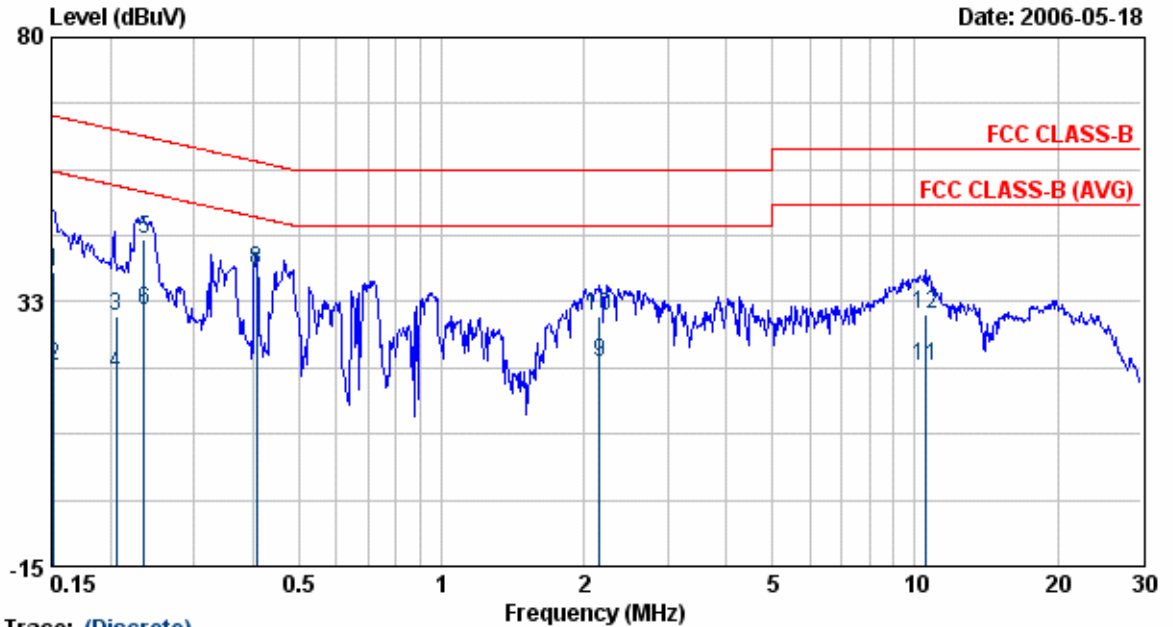
Trace: (Discrete)

| Freq | Read Level | Factor | Level | Limit | Over Limit | Remark |
|-------|------------|--------|-------|-------|------------|---------|
| MHz | dBuV | dB | dBuV | dBuV | dBuV | |
| 0.16 | 46.50 | 0.31 | 46.81 | 65.67 | -18.87 | QP |
| 0.16 | 26.05 | 0.31 | 26.36 | 55.67 | -29.32 | AVERAGE |
| 0.23 | 39.90 | 0.26 | 40.16 | 62.52 | -22.37 | QP |
| 0.23 | 27.05 | 0.26 | 27.31 | 52.52 | -25.22 | AVERAGE |
| 0.41 | 36.93 | 0.50 | 37.43 | 47.74 | -10.31 | AVERAGE |
| 0.41 | 40.87 | 0.50 | 41.37 | 57.74 | -16.37 | QP |
| 2.27 | 12.60 | 0.60 | 13.20 | 46.00 | -32.80 | AVERAGE |
| 2.27 | 25.43 | 0.60 | 26.03 | 56.00 | -29.97 | QP |
| 3.84 | 22.21 | 0.60 | 22.81 | 56.00 | -33.19 | QP |
| 3.84 | 12.11 | 0.60 | 12.71 | 46.00 | -33.29 | AVERAGE |
| 10.57 | 20.07 | 0.64 | 20.71 | 50.00 | -29.29 | AVERAGE |
| 10.57 | 28.84 | 0.64 | 29.48 | 60.00 | -30.52 | 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 : Q6236A(for Dongle)
 Power : DC 5V from PC
 Test Mode : 802.11g CH1
 Memo :

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



Trace: (Discrete)

| Freq | Read Level | Factor | Level | Limit | Over Limit | Remark |
|-------|------------|--------|-------|-------|------------|---------|
| MHz | dBuV | dB | dBuV | dBuV | dBuV | |
| 0.15 | 37.60 | 0.38 | 37.98 | 65.91 | -27.93 | QP |
| 0.15 | 20.50 | 0.38 | 20.88 | 55.91 | -35.03 | AVERAGE |
| 0.21 | 29.55 | 0.31 | 29.86 | 63.38 | -33.52 | QP |
| 0.21 | 19.26 | 0.31 | 19.57 | 53.38 | -33.81 | AVERAGE |
| 0.24 | 43.46 | 0.37 | 43.83 | 62.24 | -18.41 | QP |
| 0.24 | 30.47 | 0.37 | 30.84 | 52.24 | -21.40 | AVERAGE |
| 0.41 | 36.69 | 0.60 | 37.29 | 47.73 | -10.44 | AVERAGE |
| 0.41 | 37.77 | 0.60 | 38.37 | 57.73 | -19.36 | QP |
| 2.15 | 20.95 | 0.70 | 21.65 | 46.00 | -24.35 | AVERAGE |
| 2.15 | 29.11 | 0.70 | 29.81 | 56.00 | -26.19 | QP |
| 10.51 | 20.22 | 0.64 | 20.86 | 50.00 | -29.14 | AVERAGE |
| 10.51 | 29.75 | 0.64 | 30.39 | 60.00 | -29.61 | QP |

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

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 |

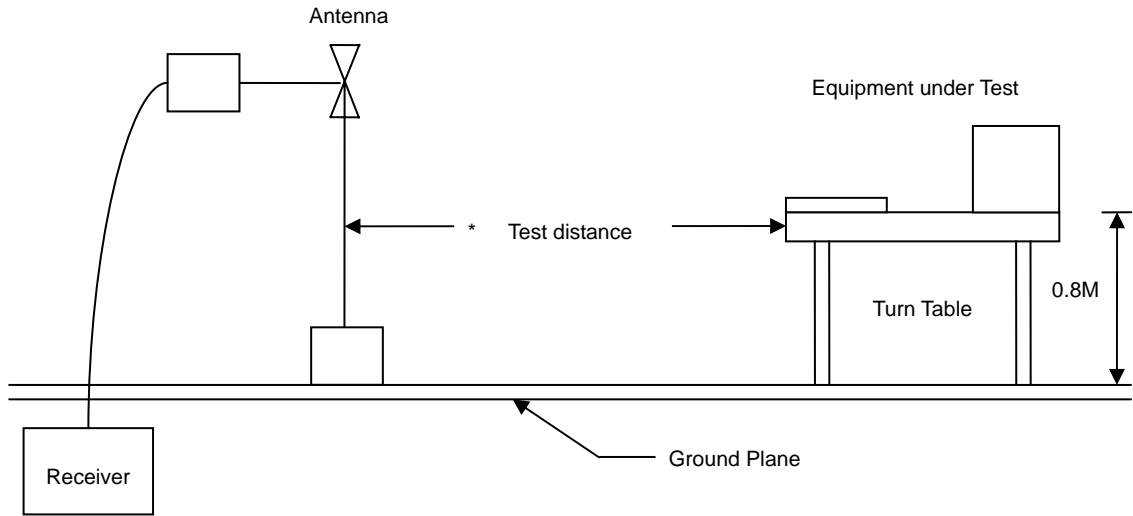
For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the above table.

| 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

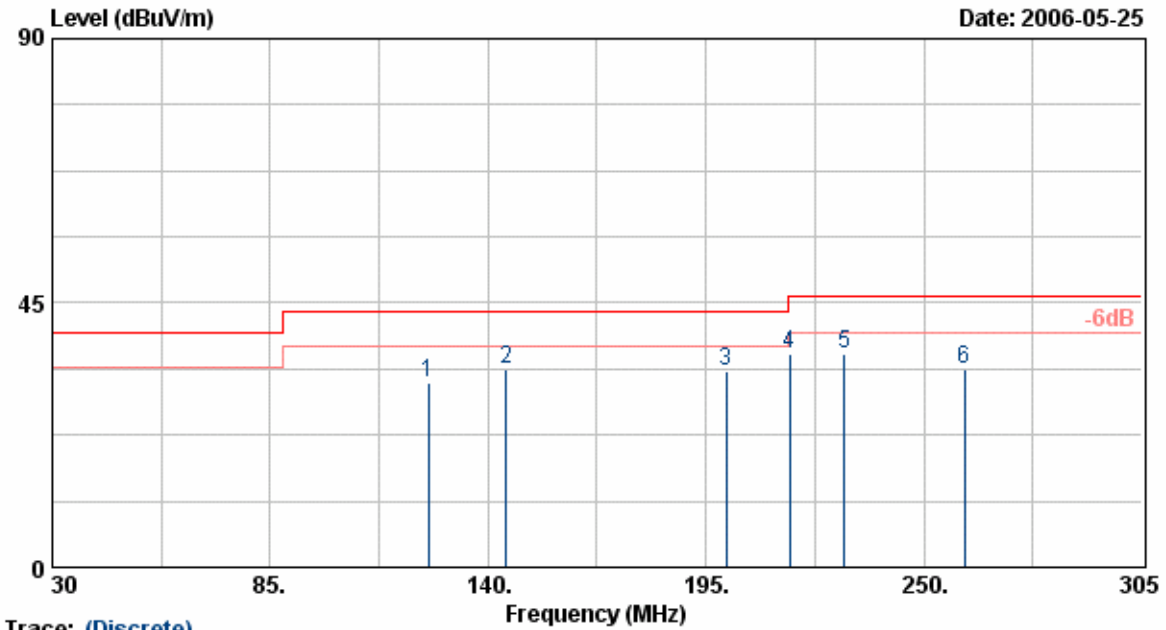


5.4 Measurement equipment

| 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 | 2944A10531 | 2006/08/09 |

5.5 Test Result and Data

| | | | |
|-------------------|----------------------|----------------------|--------------|
| EUT | : Q6326A(for Dongle) | Pol/Phase | : HORIZONTAL |
| Power | : DC 5V from PC | Temperature | : 27 °C |
| Test Mode | : Transmit/Receive | Humidity | : 68 % |
| Operation Channel | : 1 | Atmospheric Pressure | : 1008 hPa |
| Modulation Type | : 802.11g | | |
| Rate | : 54 Mbps | | |
| Memo | : | | |



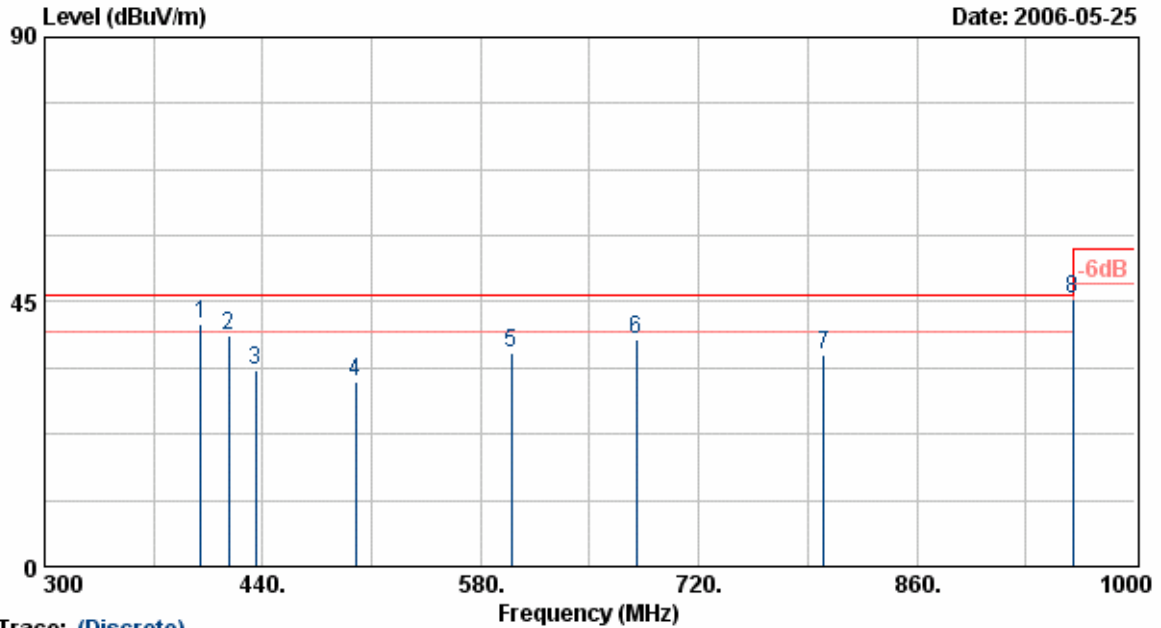
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBUV) | Corrected Factor (dBUV/m) | Result (dBUV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|--------|------------|---------------|
| 125.01 | 48.37 | -16.98 | 31.39 | 43.50 | -12.11 | Peak | 0 | 400 |
| 144.68 | 49.17 | -15.51 | 33.66 | 43.50 | -9.84 | Peak | 74 | 400 |
| 200.20 | 51.86 | -18.52 | 33.34 | 43.50 | -10.16 | Peak | 42 | 400 |
| 216.18 | 55.01 | -18.70 | 36.30 | 46.00 | -9.70 | Peak | 311 | 400 |
| 229.93 | 53.82 | -17.61 | 36.21 | 46.00 | -9.79 | Peak | 0 | 400 |
| 260.18 | 47.67 | -13.99 | 33.68 | 46.00 | -12.32 | Peak | 344 | 400 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6326A(for Dongle)
 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 : 68 %
 Atmospheric Pressure: 1008 hPa



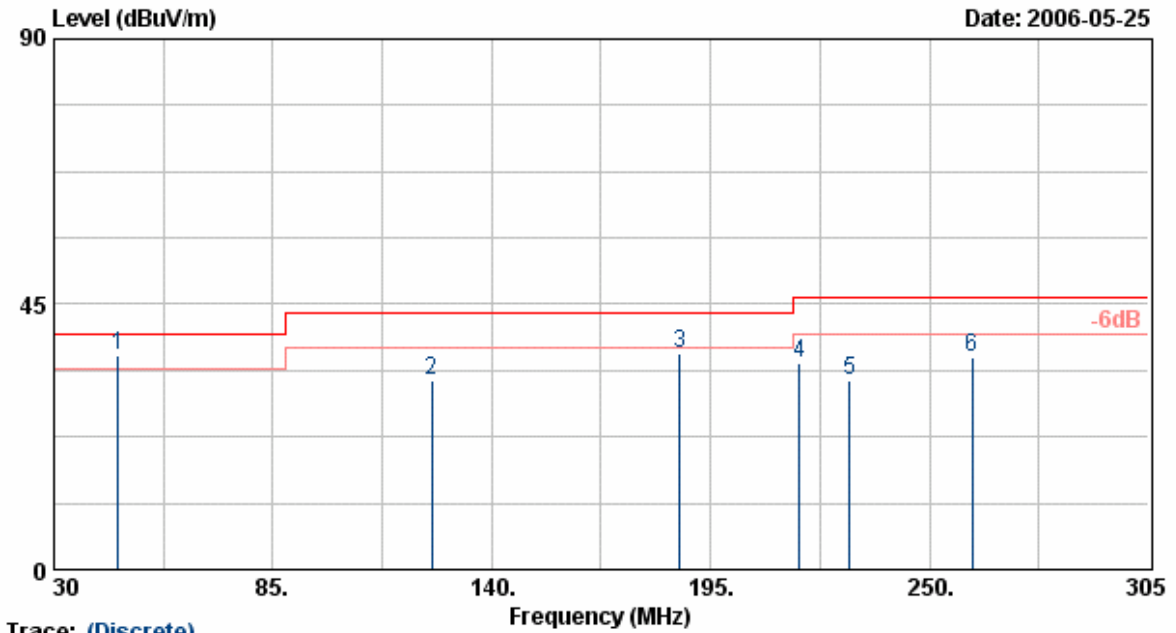
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|--------|------------|---------------|
| 400.00 | 51.11 | -9.72 | 41.39 | 46.00 | -4.61 | QP | 55 | 100 |
| 418.30 | 48.59 | -9.36 | 39.23 | 46.00 | -6.77 | Peak | 0 | 100 |
| 435.80 | 42.52 | -9.19 | 33.33 | 46.00 | -12.67 | Peak | 96 | 100 |
| 499.90 | 37.96 | -6.69 | 31.27 | 46.00 | -14.73 | Peak | 215 | 100 |
| 599.90 | 39.74 | -3.39 | 36.34 | 46.00 | -9.66 | Peak | 122 | 100 |
| 679.90 | 41.37 | -2.74 | 38.64 | 46.00 | -7.36 | Peak | 177 | 100 |
| 800.10 | 37.40 | -1.43 | 35.97 | 46.00 | -10.03 | Peak | 0 | 100 |
| 960.01 | 44.93 | 0.42 | 45.35 | 54.00 | -8.65 | Peak | 322 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6326A(for Dongle)
 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 : 68 %
 Atmospheric Pressure: 1008 hPa



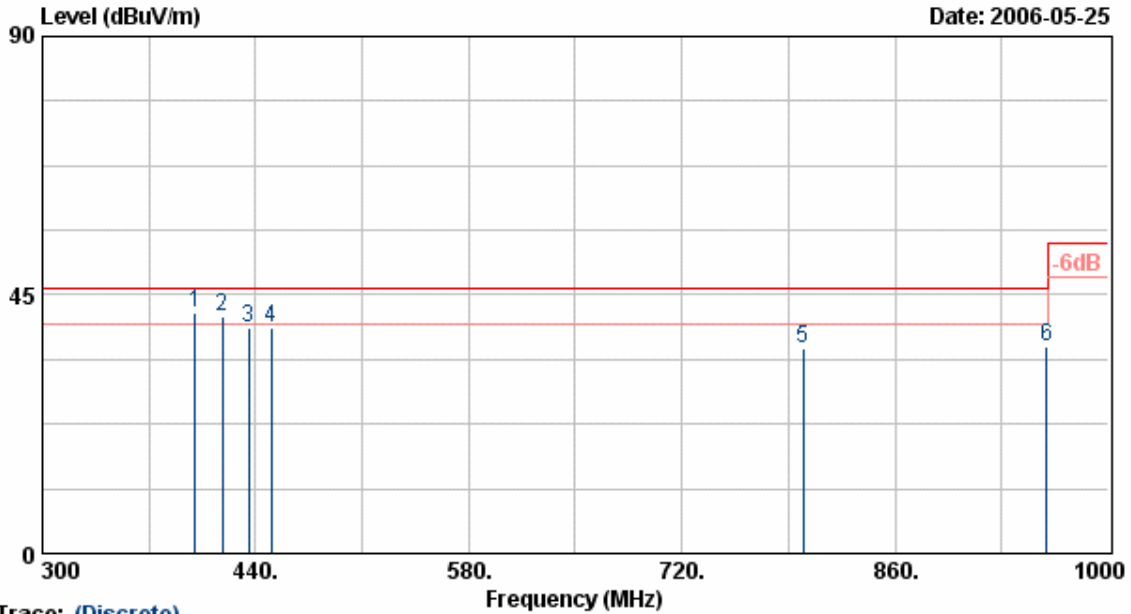
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBUV) | Corrected Factor (dBUV/m) | Result (dBUV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|--------|------------|---------------|
| 46.23 | 49.40 | -13.02 | 36.38 | 40.00 | -3.62 | QP | 0 | 300 |
| 125.03 | 49.17 | -16.98 | 32.19 | 43.50 | -11.31 | Peak | 47 | 300 |
| 187.25 | 55.18 | -18.48 | 36.70 | 43.50 | -6.80 | Peak | 66 | 300 |
| 217.25 | 53.69 | -18.62 | 35.07 | 46.00 | -10.93 | Peak | 360 | 300 |
| 229.93 | 49.72 | -17.61 | 32.11 | 46.00 | -13.89 | Peak | 22 | 300 |
| 260.73 | 49.99 | -13.96 | 36.03 | 46.00 | -9.97 | Peak | 44 | 300 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6326A(for Dongle)
 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 : 68 %
 Atmospheric Pressure : 1008 hPa



Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|--------|------------|---------------|
| 400.30 | 51.63 | -9.71 | 41.92 | 46.00 | -4.08 | QP | 86 | 100 |
| 418.30 | 50.55 | -9.36 | 41.19 | 46.00 | -4.81 | QP | 223 | 100 |
| 435.80 | 48.34 | -9.19 | 39.15 | 46.00 | -6.85 | Peak | 0 | 100 |
| 450.30 | 48.17 | -8.99 | 39.19 | 46.00 | -6.81 | Peak | 33 | 100 |
| 800.00 | 37.20 | -1.43 | 35.77 | 46.00 | -10.23 | Peak | 0 | 100 |
| 959.66 | 35.67 | 0.44 | 36.10 | 46.00 | -9.90 | Peak | 314 | 100 |

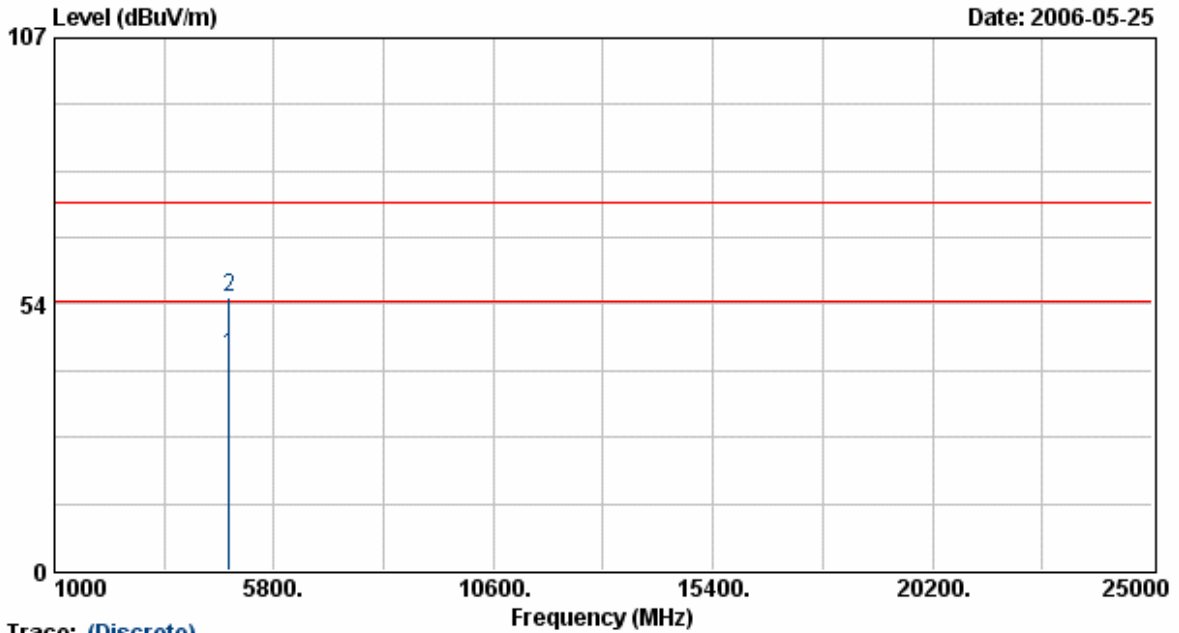
Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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           : Q6236A(for Dongle)
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     : 68 %
Atmospheric Pressure: 1008 hPa
    
```

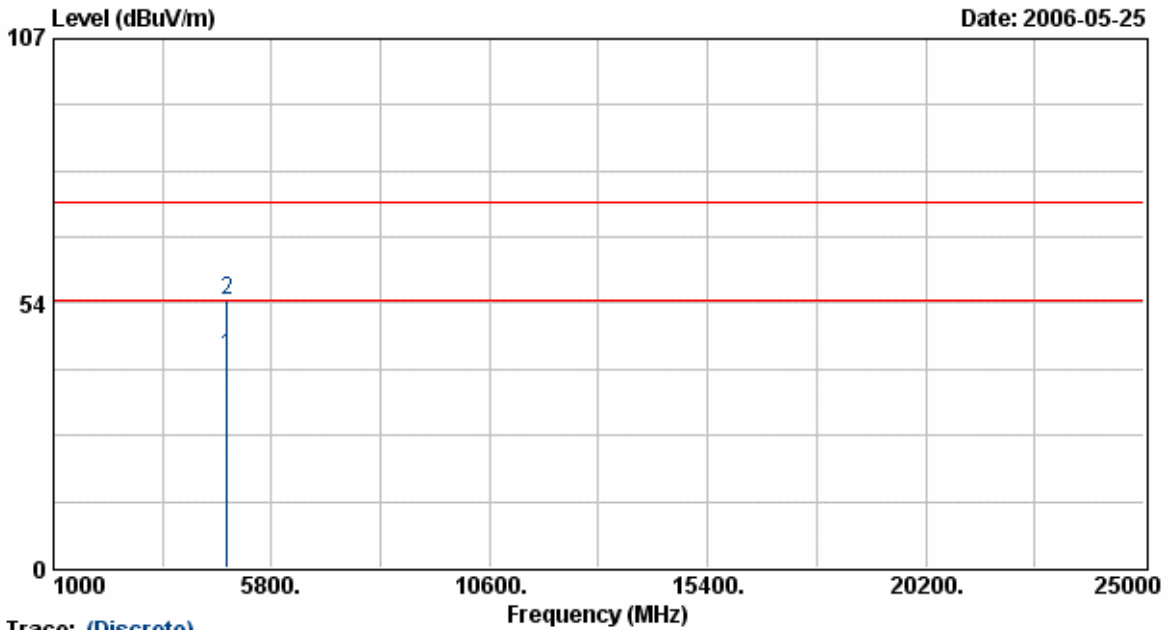


| Frequency (MHz) | Meter Reading (dBUV) | Corrected Factor (dBUV/m) | Result (dBUV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4825.13 | 37.56 | 5.71 | 43.27 | 54.00 | -10.73 | Average | 166 | 100 |
| 4825.13 | 49.21 | 5.71 | 54.92 | 74.00 | -19.08 | Peak | 166 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6236A(for Dongle)
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 1
 Modulation Type : 802.11b
 Rate : 11 Mbps
 Memo :
 Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 68 %
 Atmospheric Pressure: 1008 hPa



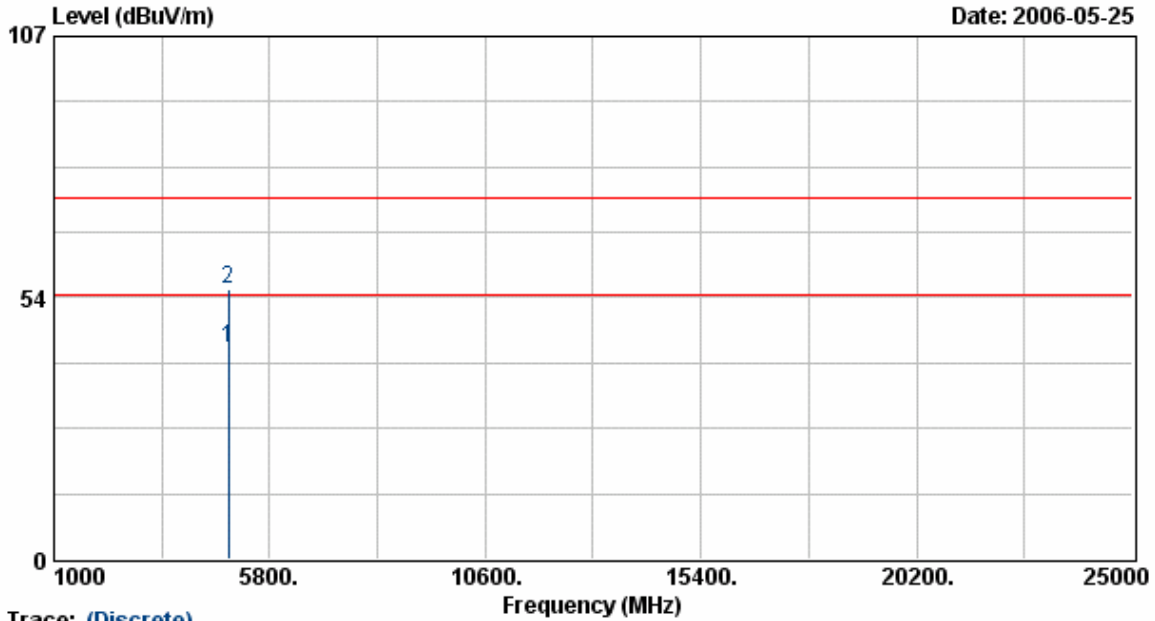
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBUV) | Corrected Factor (dBUV/m) | Result (dBUV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4823.50 | 37.13 | 5.71 | 42.83 | 54.00 | -11.17 | Average | 192 | 100 |
| 4823.50 | 48.29 | 5.71 | 53.99 | 74.00 | -20.01 | Peak | 192 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 | : Q6236A(for Dongle) | Pol/Phase | : HORIZONTAL |
| Power | : DC 5V from PC | Temperature | : 27 °C |
| Test Mode | : Transmit/Receive | Humidity | : 68 % |
| Operation Channel | : 6 | Atmospheric Pressure | : 1008 hPa |
| Modulation Type | : 802.11b | | |
| Rate | : 11 Mbps | | |
| Memo | : | | |



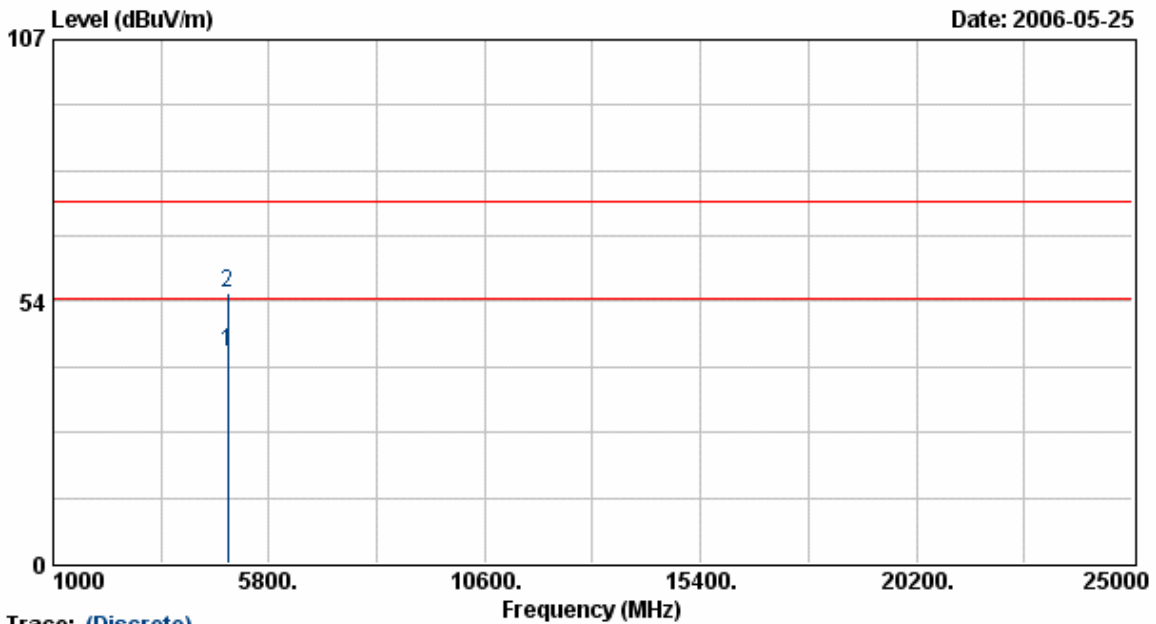
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4875.25 | 37.46 | 5.85 | 43.31 | 54.00 | -10.69 | Average | 166 | 100 |
| 4875.25 | 49.23 | 5.85 | 55.08 | 74.00 | -18.92 | Peak | 166 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6236A(for Dongle)
 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 : 68 %
 Atmospheric Pressure: 1008 hPa



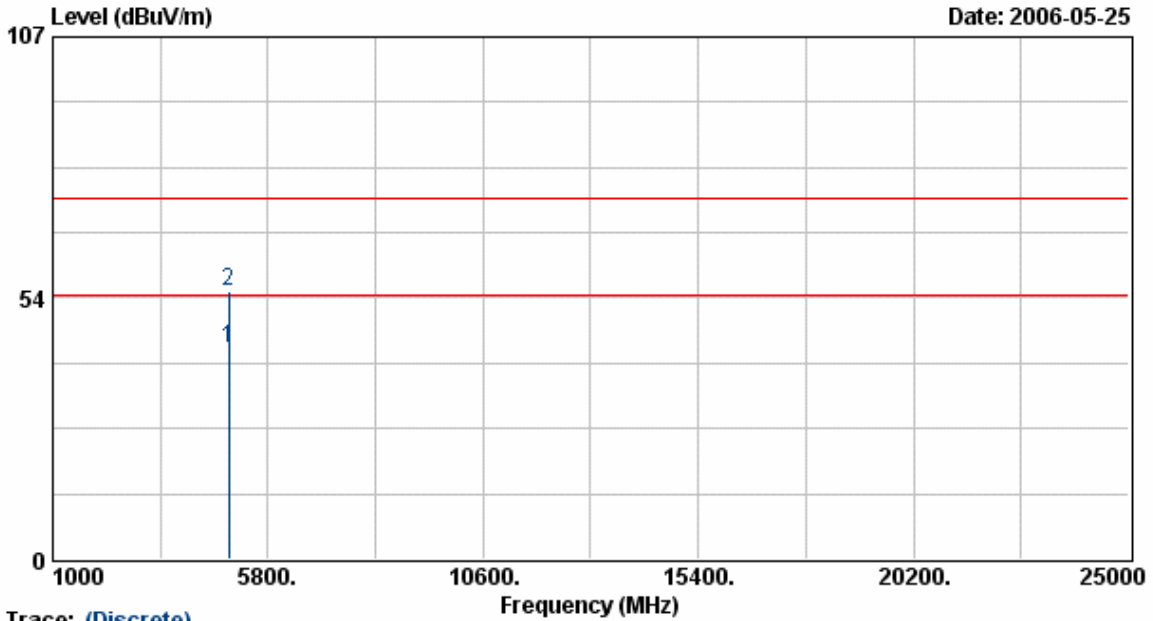
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBUV) | Corrected Factor (dBUV/m) | Result (dBUV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4875.25 | 37.34 | 5.85 | 43.19 | 54.00 | -10.81 | Average | 192 | 100 |
| 4875.25 | 49.27 | 5.85 | 55.12 | 74.00 | -18.88 | Peak | 192 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6236A(for Dongle)
 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 : 68 %
 Atmospheric Pressure : 1008 hPa



Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4923.95 | 37.25 | 5.99 | 43.24 | 54.00 | -10.76 | Average | 166 | 100 |
| 4923.95 | 48.99 | 5.99 | 54.98 | 74.00 | -19.02 | Peak | 166 | 100 |

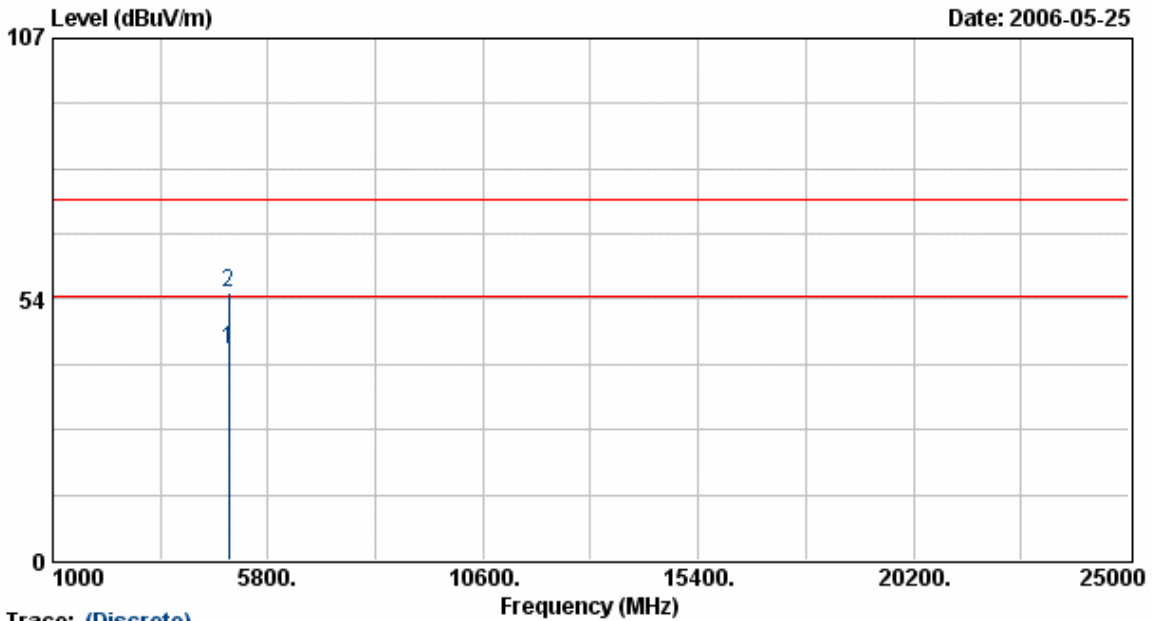
Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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           : Q6236A(for Dongle)
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      : 68 %
Atmospheric Pressure : 1008 hPa
    
```



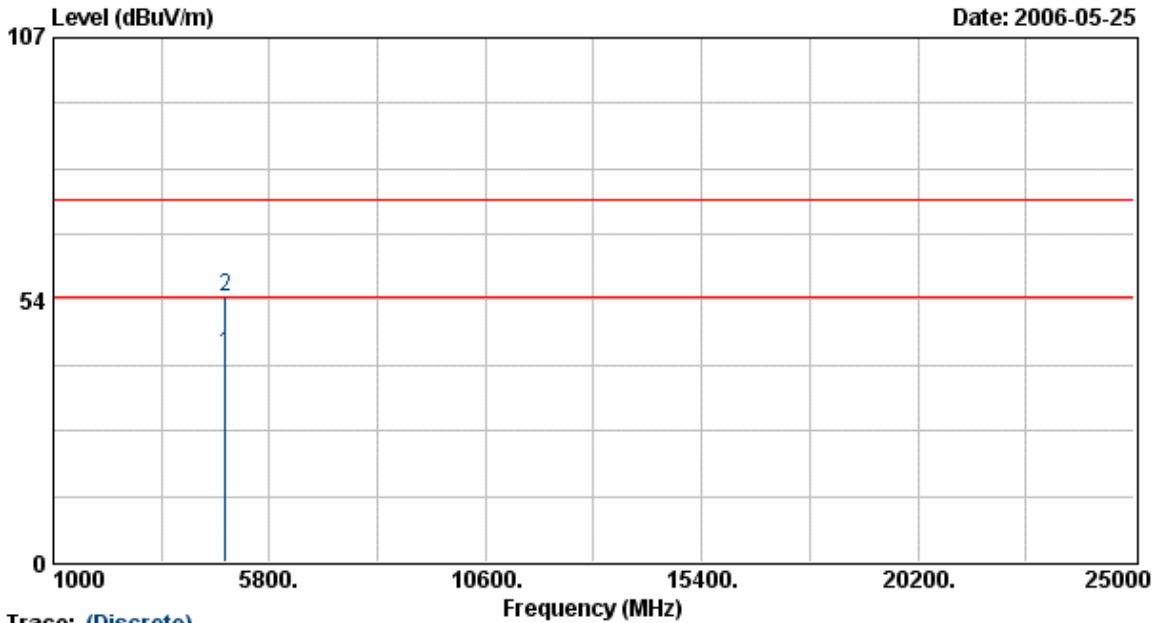
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4923.85 | 37.13 | 5.99 | 43.12 | 54.00 | -10.88 | Average | 192 | 100 |
| 4923.85 | 48.83 | 5.99 | 54.82 | 74.00 | -19.18 | Peak | 192 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6236A(for Dongle)
 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 : 68 %
 Atmospheric Pressure: 1008 hPa



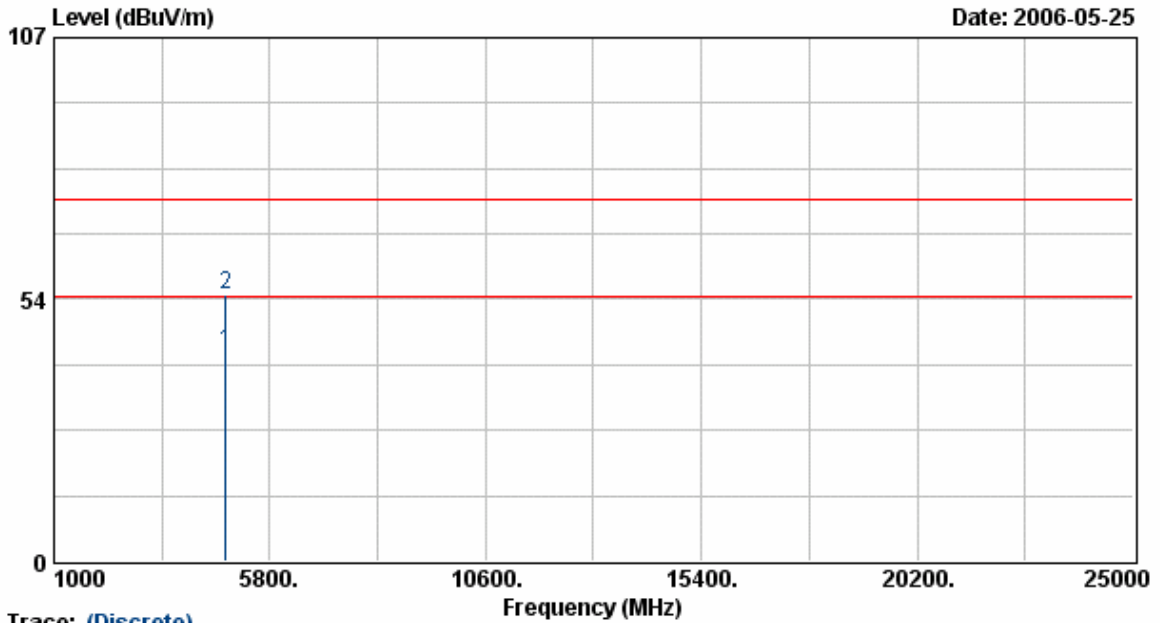
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4823.55 | 36.85 | 5.71 | 42.56 | 54.00 | -11.44 | Average | 166 | 100 |
| 4823.55 | 48.57 | 5.71 | 54.28 | 74.00 | -19.72 | Peak | 166 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6236A(for Dongle)
 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 : 68 %
 Atmospheric Pressure: 1008 hPa



Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4824.25 | 36.95 | 5.71 | 42.66 | 54.00 | -11.34 | Average | 192 | 100 |
| 4824.25 | 48.72 | 5.71 | 54.43 | 74.00 | -19.57 | Peak | 192 | 100 |

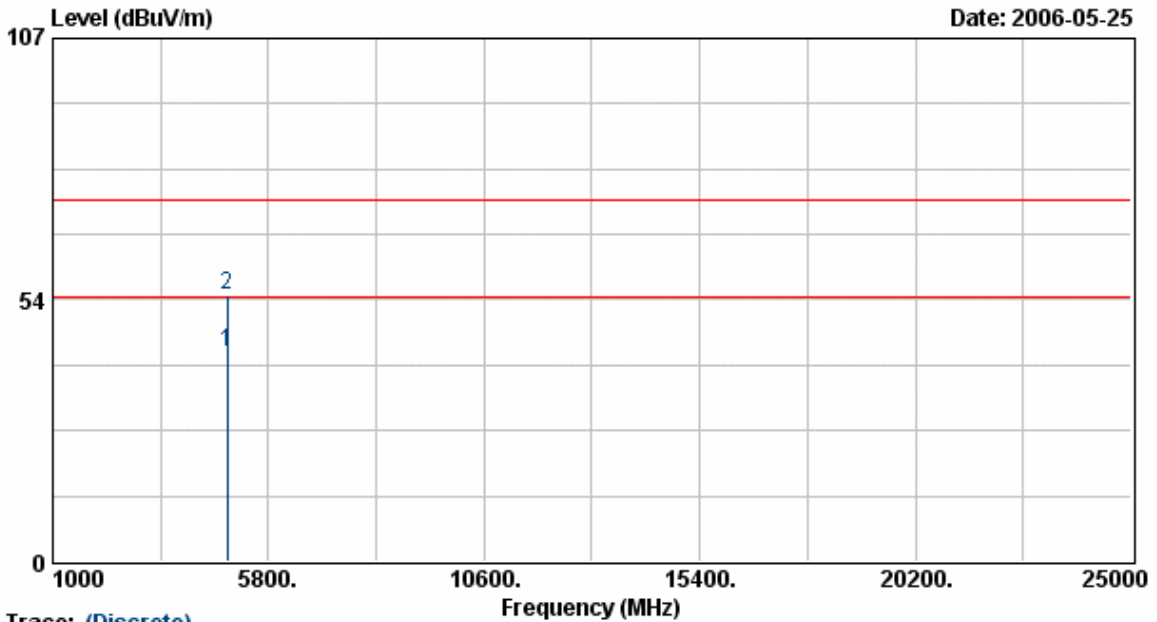
Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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           : Q6236A(for Dongle)
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      : 68 %
Atmospheric Pressure: 1008 hPa
    
```



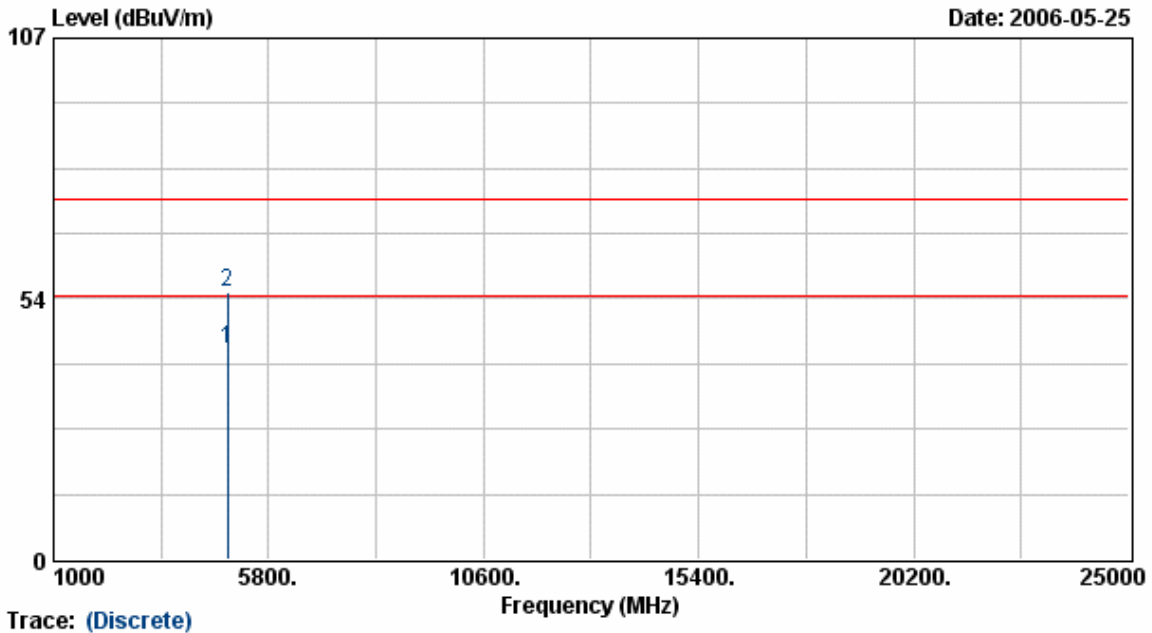
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4873.50 | 36.85 | 5.85 | 42.70 | 54.00 | -11.30 | Average | 166 | 100 |
| 4873.50 | 48.63 | 5.85 | 54.48 | 74.00 | -19.52 | Peak | 166 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6236A(for Dongle)
 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 : 68 %
 Atmospheric Pressure: 1008 hPa



Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4873.96 | 37.21 | 5.85 | 43.06 | 54.00 | -10.94 | Average | 192 | 100 |
| 4873.96 | 49.03 | 5.85 | 54.88 | 74.00 | -19.12 | Peak | 192 | 100 |

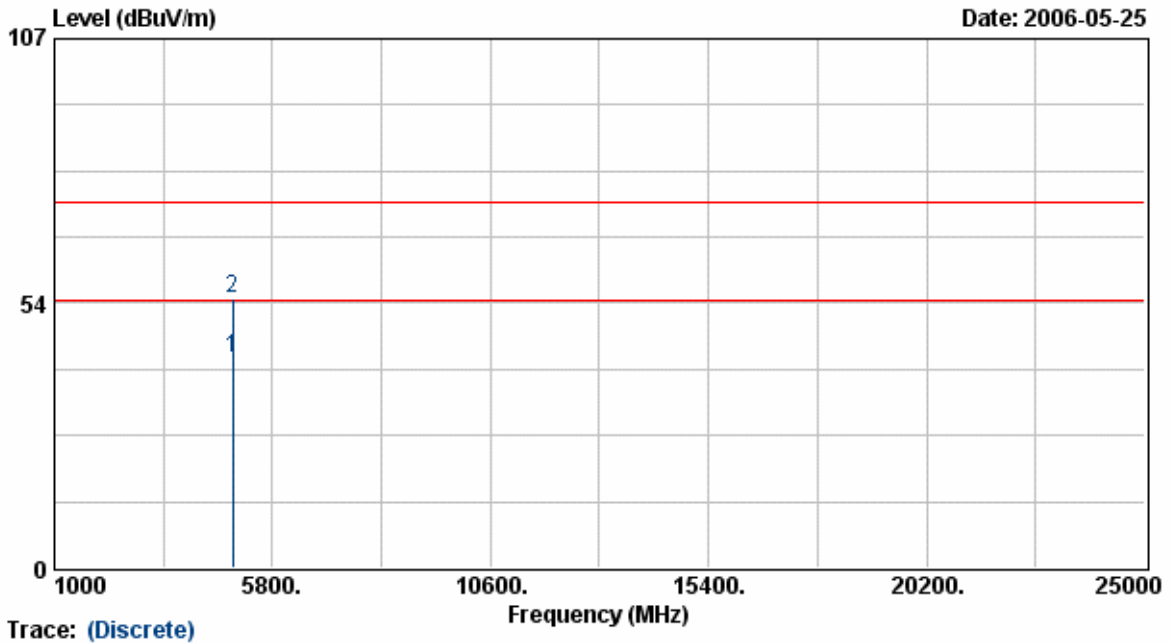
Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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           : Q6236A(for Dongle)
Power         : DC 5V from PC
Test Mode     : Transmit/Receive
Operation Channel: 11
Modulation Type : 802.11g
Rate          : 54 Mbps
Memo          :

Pol/Phase     : HORIZONTAL
Temperature   : 27 °C
Humidity      : 68 %
Atmospheric Pressure: 1008 hPa
    
```



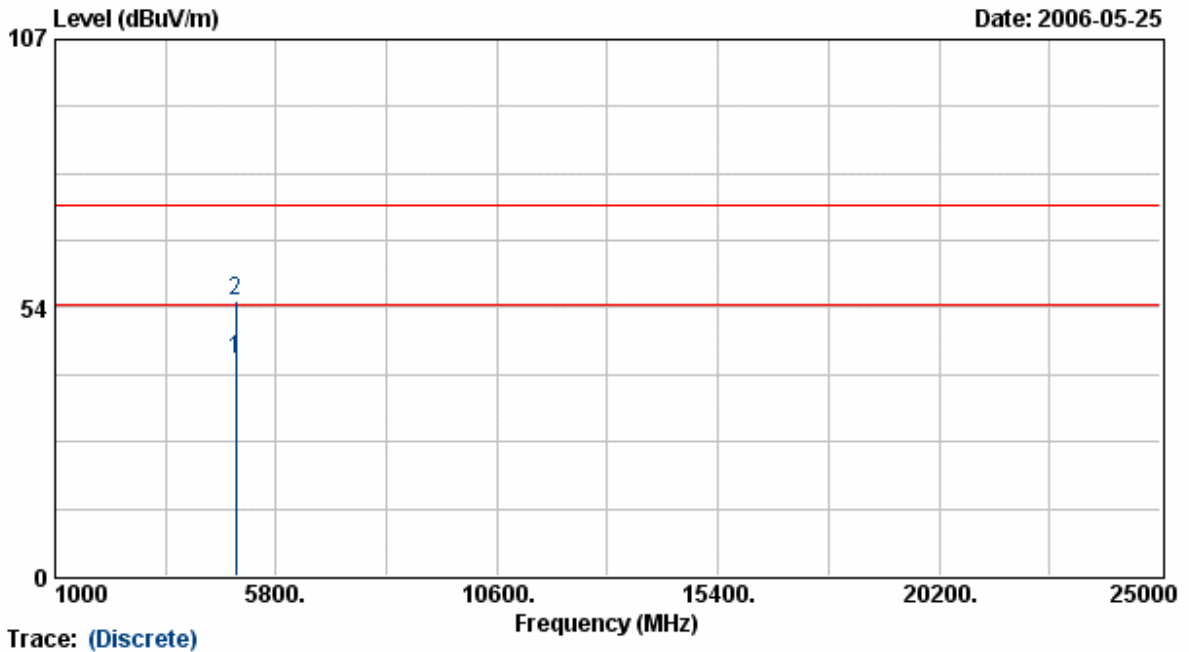
Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBUV) | Corrected Factor (dBUV/m) | Result (dBUV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4924.25 | 36.55 | 5.99 | 42.54 | 54.00 | -11.46 | Average | 166 | 100 |
| 4924.25 | 48.33 | 5.99 | 54.32 | 74.00 | -19.68 | Peak | 166 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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 : Q6236A(for Dongle)
 Power : DC 5V from PC
 Test Mode : Transmit/Receive
 Operation Channel: 11
 Modulation Type : 802.11g
 Rate : 54 Mbps
 Memo :
 Pol/Phase : VERTICAL
 Temperature : 27 °C
 Humidity : 68 %
 Atmospheric Pressure: 1008 hPa



Trace: (Discrete)

| Frequency (MHz) | Meter Reading (dBuV) | Corrected Factor (dBuV/m) | Result (dBuV/m) | Limit (dB) | Margin (dB) | Remark | Table Deg. | Ant High (cm) |
|-----------------|----------------------|---------------------------|-----------------|------------|-------------|---------|------------|---------------|
| 4923.50 | 37.22 | 5.99 | 43.21 | 54.00 | -10.79 | Average | 192 | 100 |
| 4923.50 | 49.04 | 5.99 | 55.03 | 74.00 | -18.97 | Peak | 192 | 100 |

Notes:

1. Result = Meter Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth 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

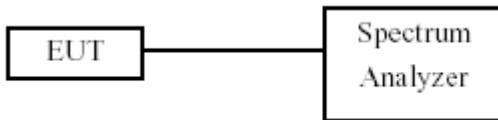
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

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

6.3 Test Setup Layout



6.4 Measurement equipment

| Instrument/Ancillary | Model No. | Manufacturer | Serial No. | 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: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

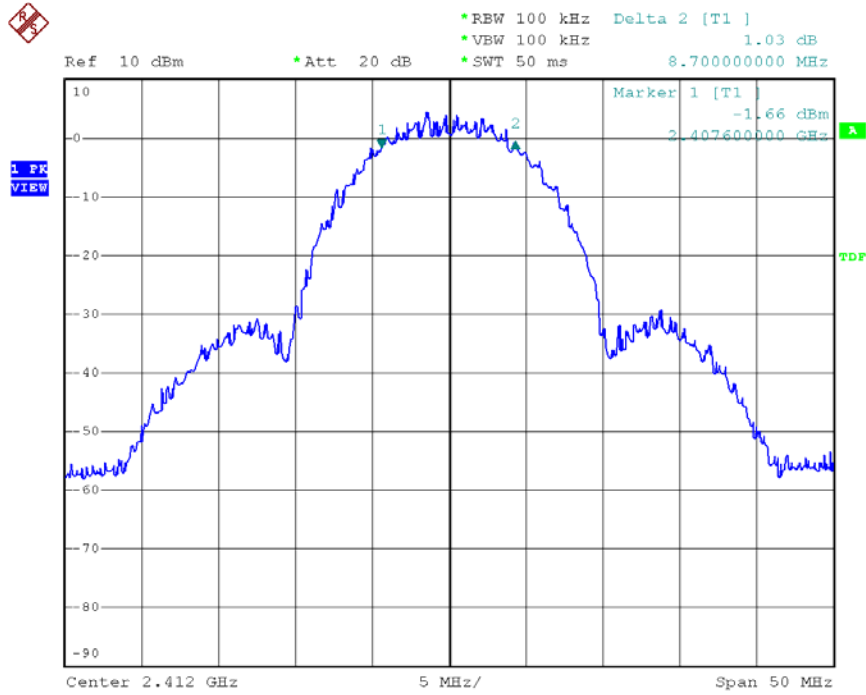
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |
|---------|-----------------|---------------------|
| 01 | 2412 | 8.7 |
| 06 | 2437 | 8.7 |
| 11 | 2462 | 8.7 |

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

Test Date: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

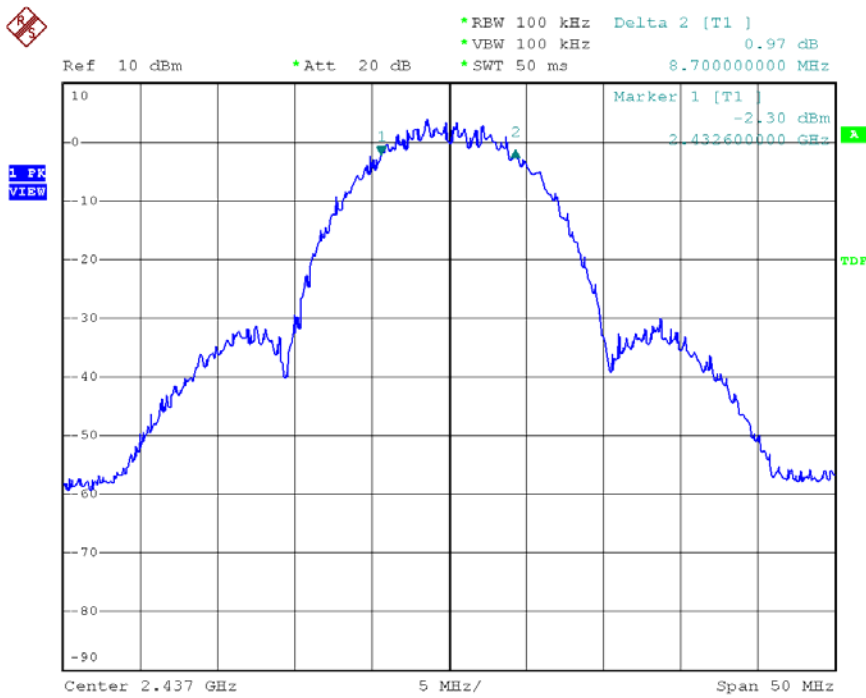
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |
|---------|-----------------|---------------------|
| 01 | 2412 | 16.3 |
| 06 | 2437 | 16.3 |
| 11 | 2462 | 16.3 |

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



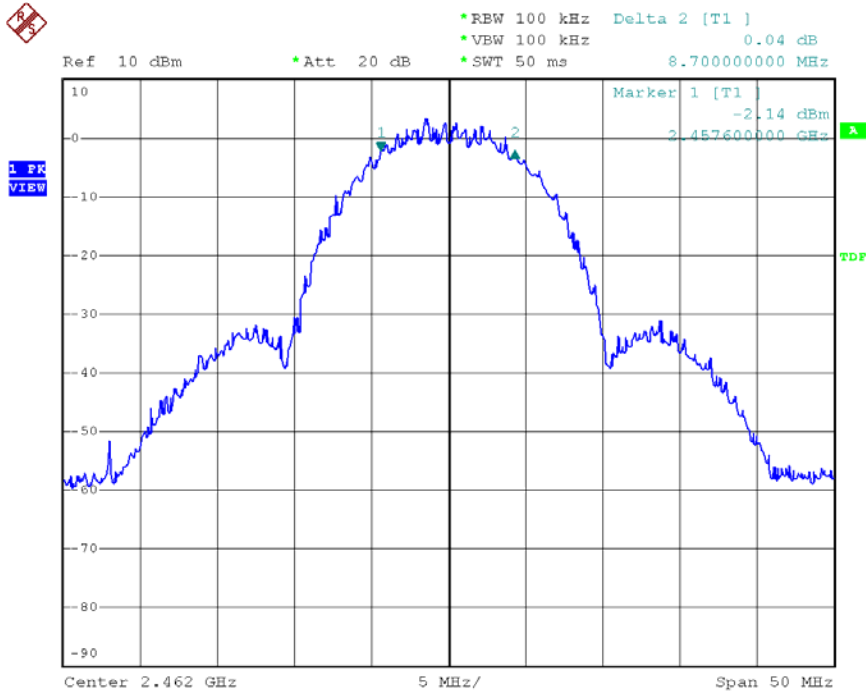
Date: 23.MAY.2006 15:51:02

Channel:06



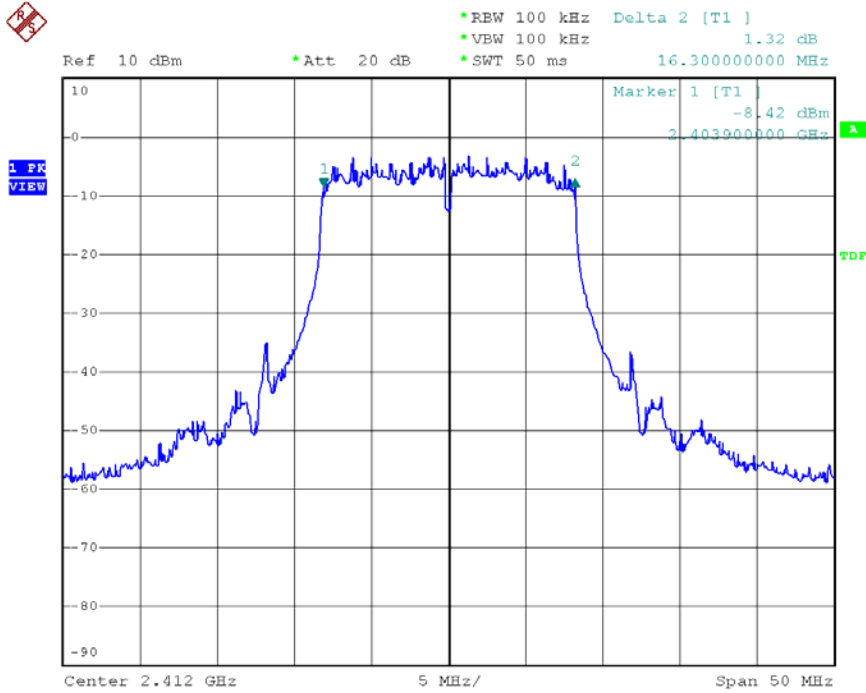
Date: 23.MAY.2006 15:53:13

Channel:11



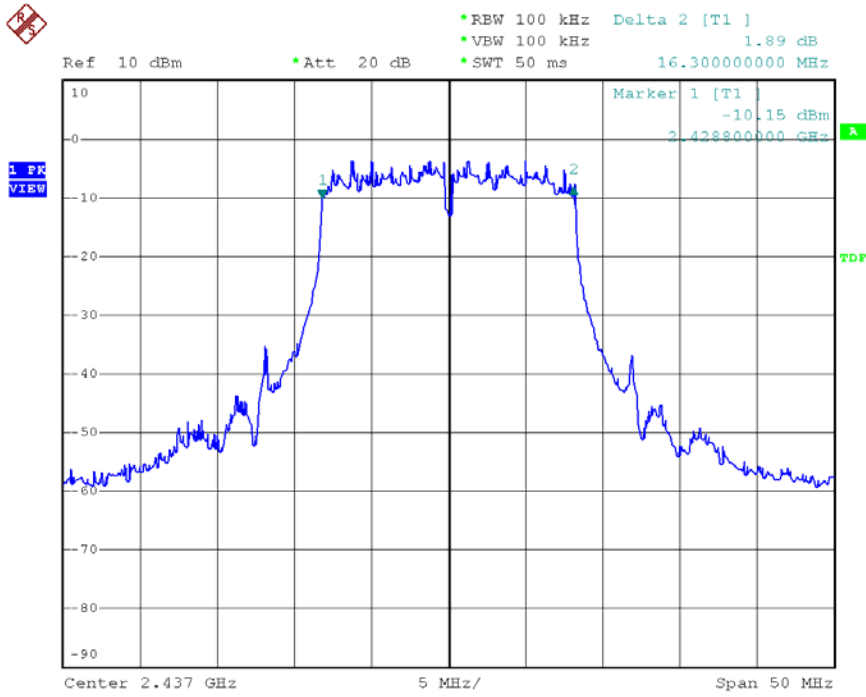
Date: 23.MAY.2006 15:55:13

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



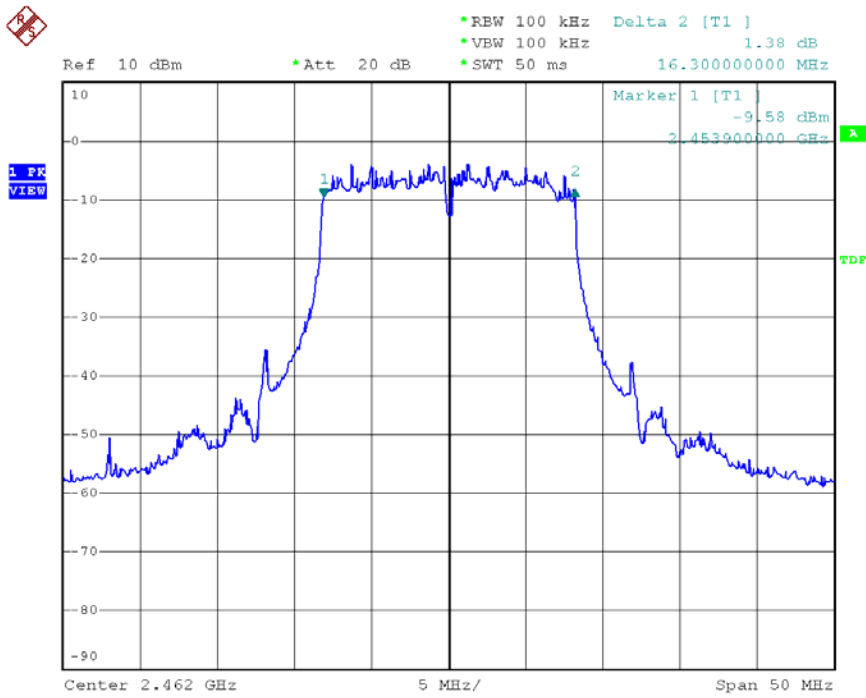
Date: 23.MAY.2006 16:22:28

Channel:06



Date: 23.MAY.2006 16:20:32

Channel:11



Date: 23.MAY.2006 16:11:25

7. Maximum Peak Output Power

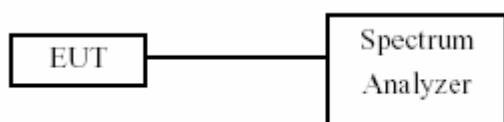
7.1 Test Limit

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: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

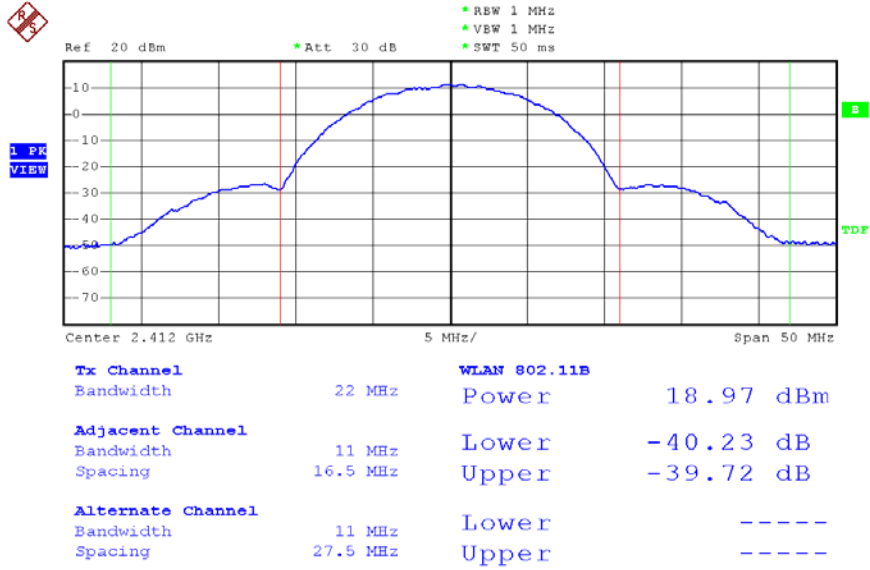
| Channel | Frequency (MHz) | Peak Power Output (dBm) | Peak Power Output (mW) |
|---------|-----------------|-------------------------|------------------------|
| 01 | 2412 | 18.97 | 78.90 |
| 06 | 2437 | 19.40 | 87.10 |
| 11 | 2462 | 18.97 | 78.90 |

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

Test Date: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

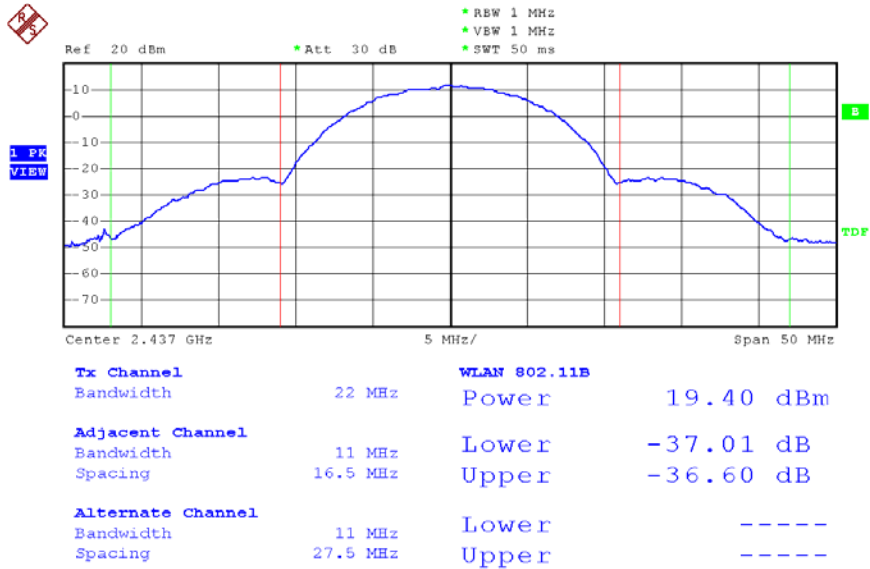
| Channel | Frequency (MHz) | Peak Power Output (dBm) | Peak Power Output (mW) |
|---------|-----------------|-------------------------|------------------------|
| 01 | 2412 | 15.38 | 34.50 |
| 06 | 2437 | 15.19 | 33.00 |
| 11 | 2462 | 14.47 | 28.00 |

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



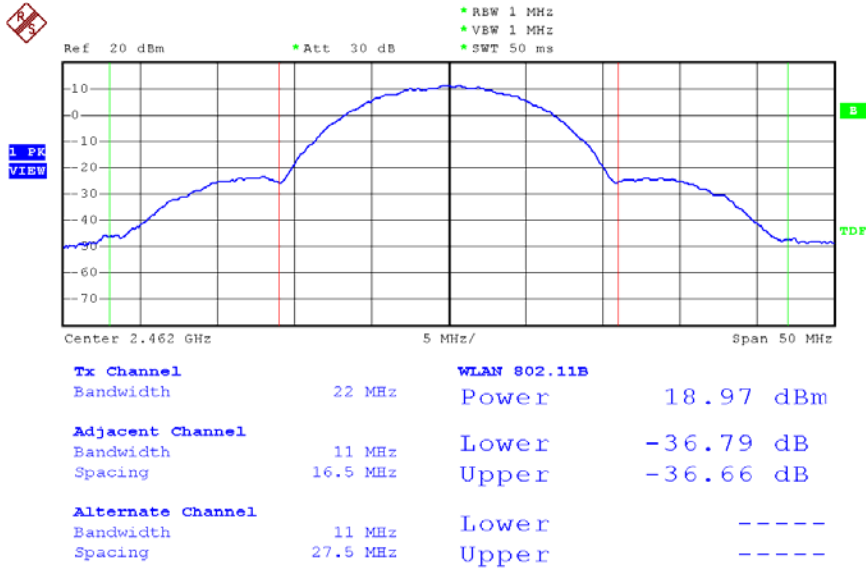
Date: 23.MAY.2006 18:13:54

Channel:06



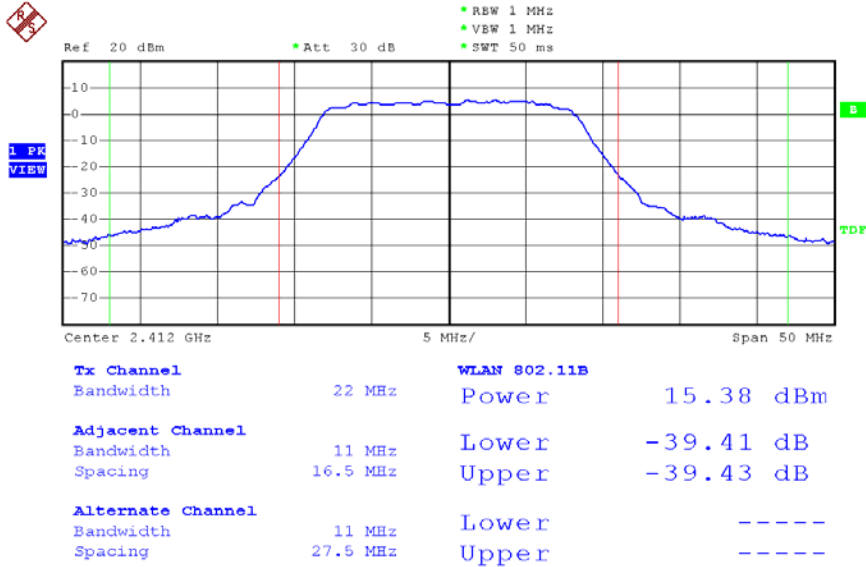
Date: 23.MAY.2006 10:13:01

Channel: 11



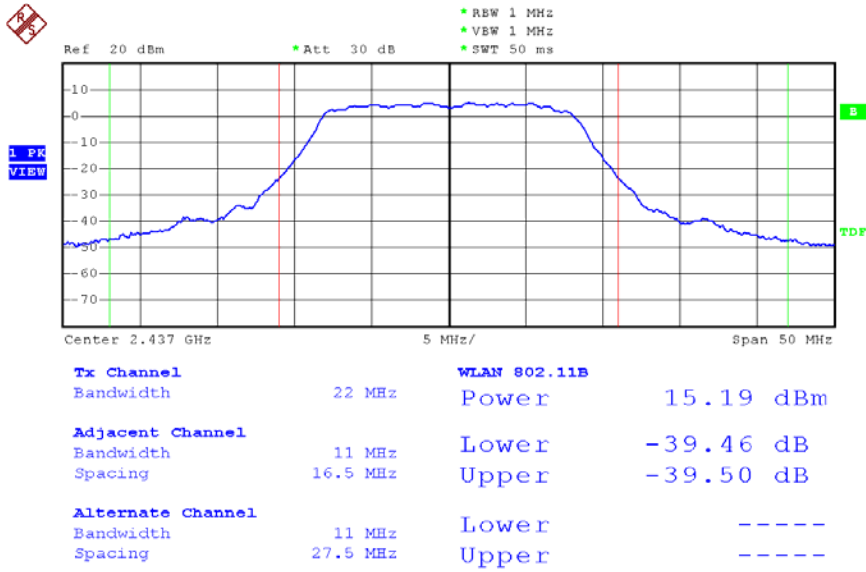
Date: 23.MAY.2006 10:12:16

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



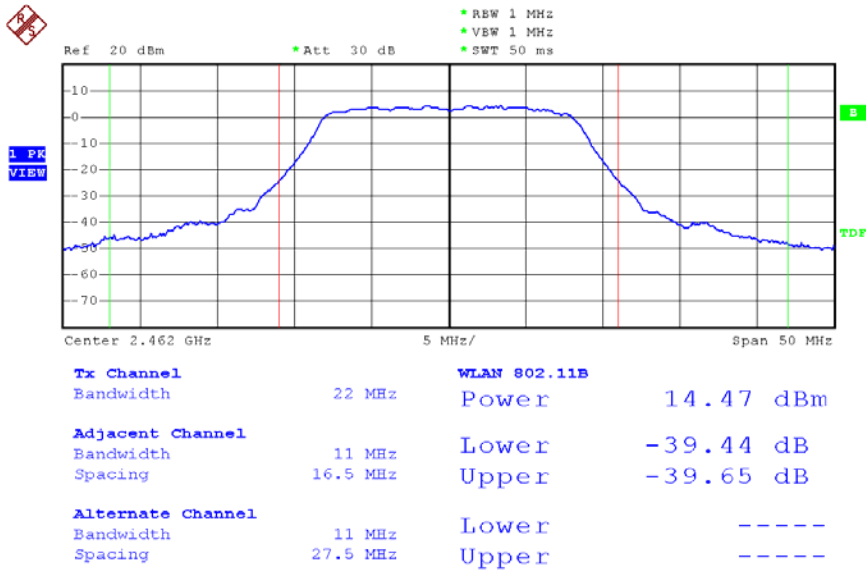
Date: 23.MAY.2006 09:27:49

Channel: 06



Date: 23.MAY.2006 09:29:39

Channel:11



Date: 23.MAY.2006 10:06:59

8. Band Edges Measurement

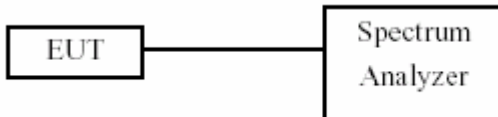
8.1 Test Limit

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: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

| Channel | Frequency | maximum value in frequency (MHz) | maximum value is (dBm) |
|---------|-----------|-------------------------------------|---------------------------|
| 01 | 2412 | 2399.4 | -28.93 |
| 11 | 2462 | 2860.0 | -48.82 |

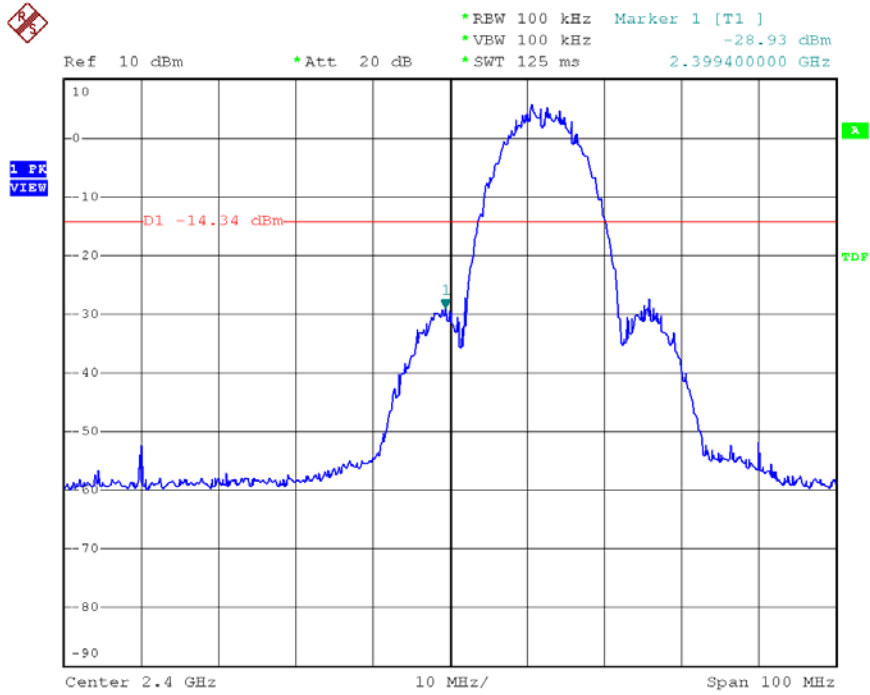
(2) Modulation Standard: IEEE 802.11g (54Mbps)

Test Date: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

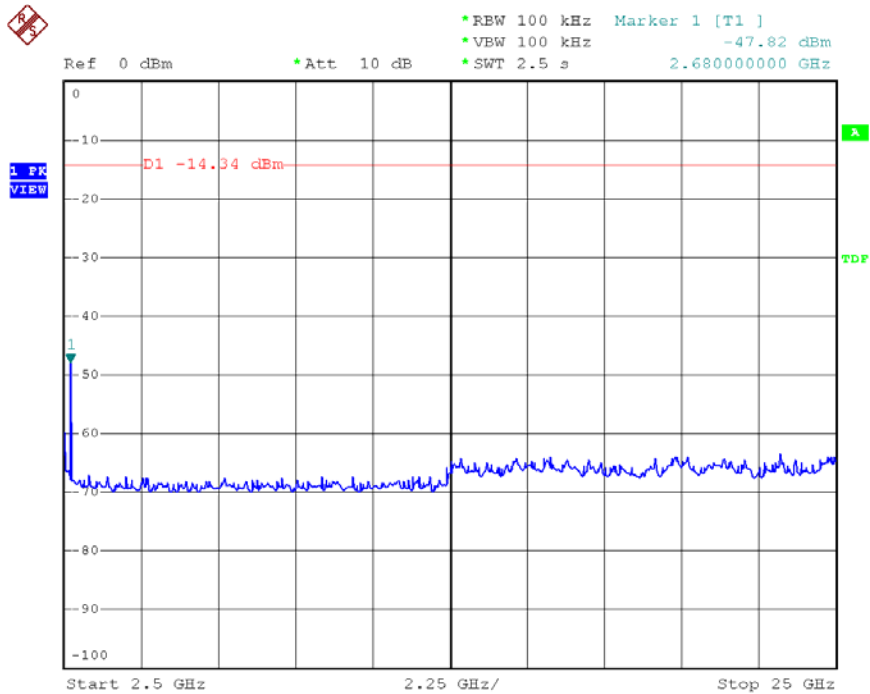
| Channel | Frequency | maximum value in frequency (MHz) | maximum value is (dBm) |
|---------|-----------|-------------------------------------|---------------------------|
| 01 | 2412 | 2398.2 | -43.07 |
| 11 | 2462 | 2520.1 | -56.02 |

Modulation Standard: 802.11b (11Mbps)

Channel: 01

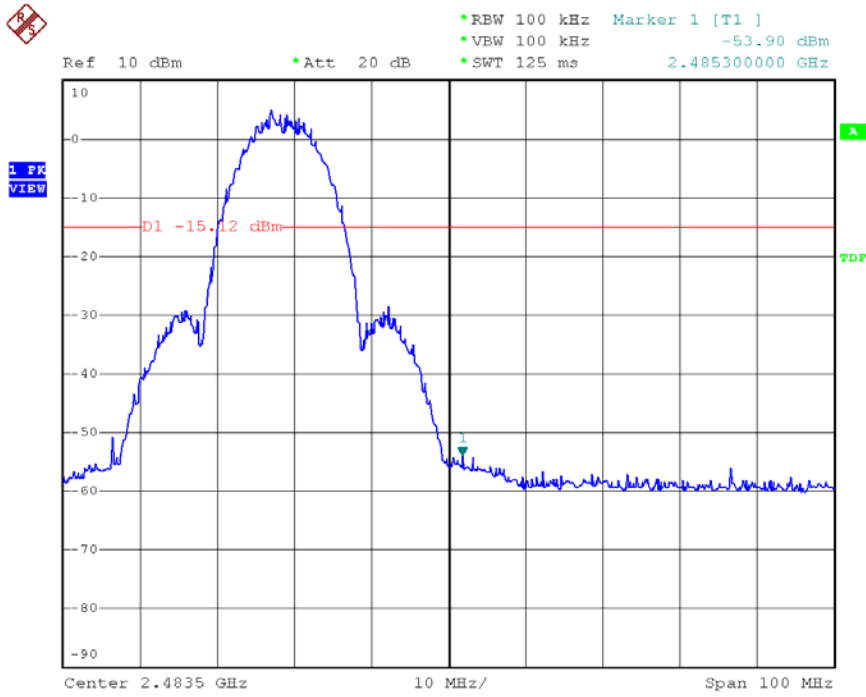


Date: 23.MAY.2006 16:26:35

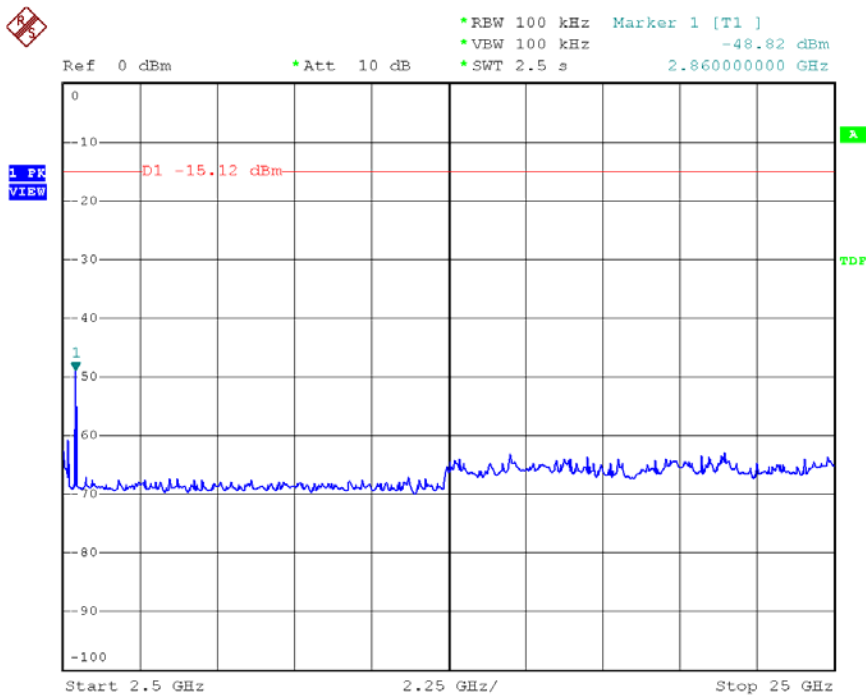


Date: 23.MAY.2006 16:27:48

Channel: 11



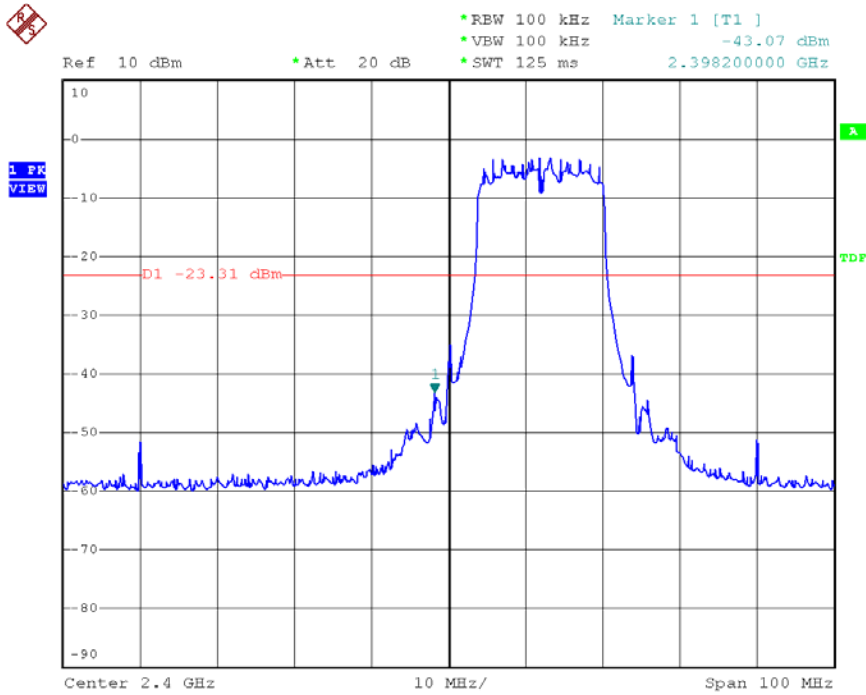
Date: 23.MAY.2006 16:29:31



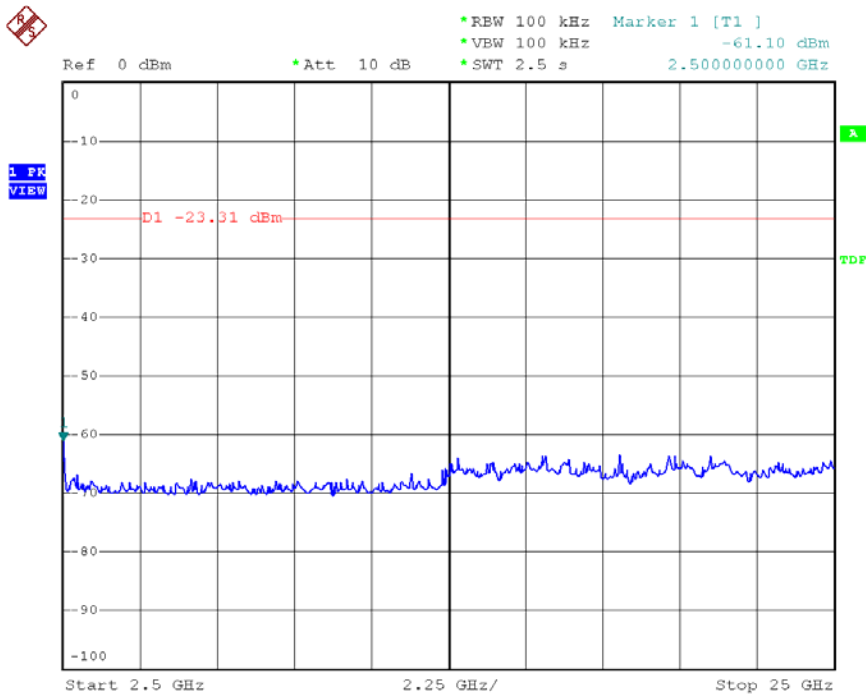
Date: 23.MAY.2006 16:30:22

Modulation Standard: 802.11g (54Mbps)

Channel: 01

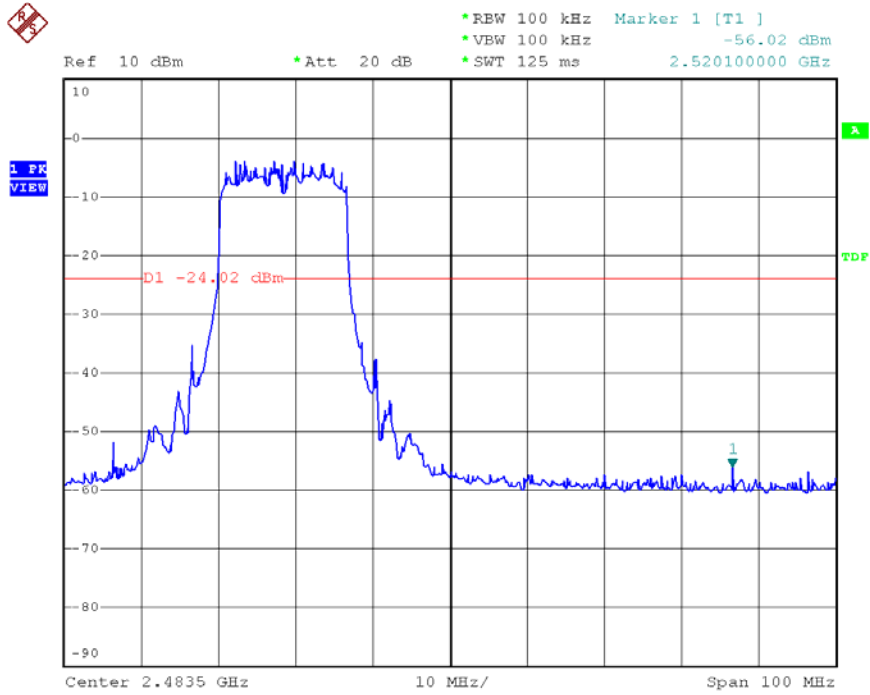


Date: 23.MAY.2006 16:36:18

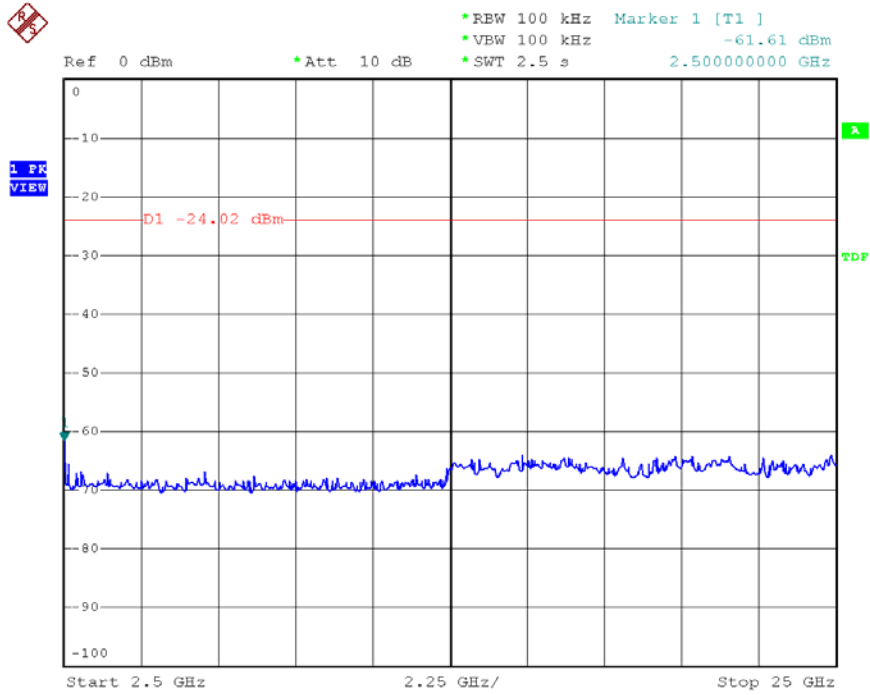


Date: 23.MAY.2006 16:37:46

Channel: 11



Date: 23.MAY.2006 16:45:00



Date: 23.MAY.2006 16:45:39

8.6 Restrict band emission Measurement Data

Modulation Standard: IEEE 802.11b (11Mbps)

Test Date: May. 25, 2006 Temperature: 27 Humidity: 68% Atmospheric pressure: 1008 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. | | | |
| 2360.184 | H | 50.99 | -0.85 | 50.14 | Peak | 74 | 54 | -23.86 | 166 | 1.1 |
| 2359.878 | H | 41.41 | -0.85 | 40.56 | Ave | 74 | 54 | -13.44 | 166 | 1.1 |
| 2359.878 | V | 50.74 | -0.85 | 49.89 | Peak | 74 | 54 | -24.11 | 192 | 1.0 |
| 2359.878 | V | 39.79 | -0.85 | 38.94 | Ave | 74 | 54 | -15.06 | 192 | 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. | | | |
| 2484.952 | H | 50.07 | -0.45 | 49.62 | Peak | 74 | 54 | -24.38 | 166 | 1.1 |
| 2483.736 | H | 38.26 | -0.45 | 37.81 | Ave | 74 | 54 | -16.19 | 166 | 1.1 |
| 2486.586 | V | 49.28 | -0.45 | 48.84 | Peak | 74 | 54 | -25.16 | 192 | 1.0 |
| 2484.002 | V | 37.82 | -0.45 | 37.37 | Ave | 74 | 54 | -16.63 | 192 | 1.0 |

Modulation Standard: 802.11g (54Mbps)

Test Date: May. 25, 2006 Temperature: 27 Humidity: 68% Atmospheric pressure: 1008 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. | | | |
| 2359.878 | H | 51.01 | -0.85 | 50.16 | Peak | 74 | 54 | -23.84 | 166 | 1.1 |
| 2359.878 | H | 42.00 | -0.85 | 41.15 | Ave | 74 | 54 | -12.85 | 166 | 1.1 |
| 2359.878 | V | 49.81 | -0.85 | 48.96 | Peak | 74 | 54 | -25.04 | 192 | 1.0 |
| 2359.878 | V | 39.55 | -0.85 | 38.70 | Ave | 74 | 54 | -15.30 | 192 | 1.0 |

c) 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. | | | |
| 2483.812 | H | 50.76 | -0.45 | 50.31 | Peak | 74 | 54 | -23.69 | 166 | 1.1 |
| 2490.082 | H | 38.15 | -0.43 | 37.72 | Ave | 74 | 54 | -16.28 | 166 | 1.1 |
| 2488.866 | V | 49.60 | -0.44 | 49.16 | Peak | 74 | 54 | -24.84 | 192 | 1.0 |
| 2492.552 | V | 37.56 | -0.42 | 37.14 | Ave | 74 | 54 | -16.86 | 192 | 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

9. Power Spectral Density

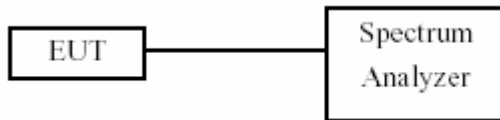
9.1 Test Limit

The Maximum of Power Spectral Density Measurement is 8dBm.

9.2 Test Procedures

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

9.3 Test Setup Layout :



9.4 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: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

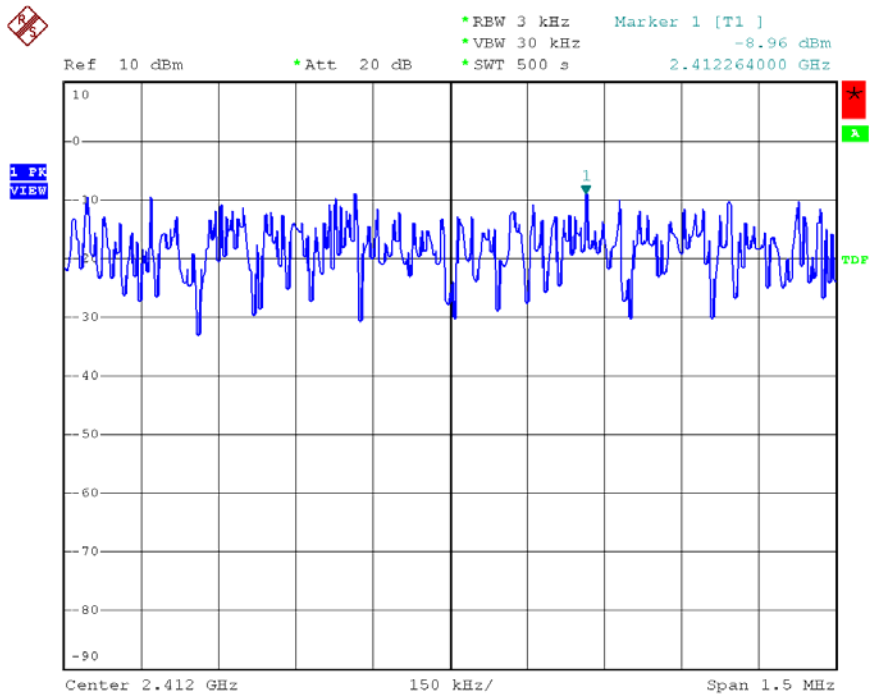
| Channel | Frequency | Maximum Power Density of 3 kHz Bandwidth (dBm) |
|---------|-----------|--|
| 01 | 2412 | -8.96 |
| 06 | 2437 | -9.32 |
| 11 | 2462 | -9.86 |

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

Test Date: May. 19, 2006 Temperature: 25 Humidity: 68% Atmospheric pressure: 1013 hPa

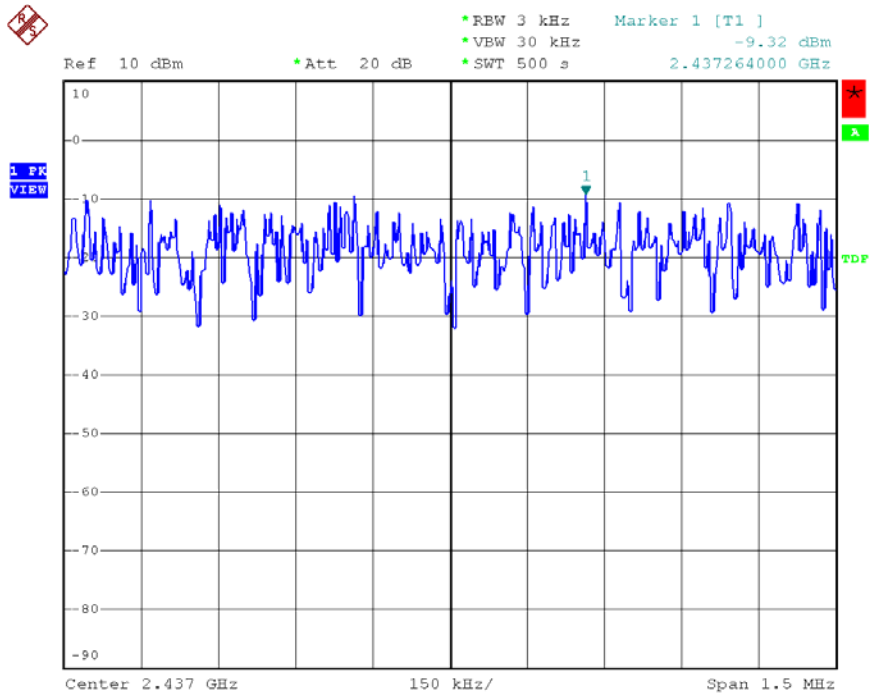
| Channel | Frequency | Maximum Power Density of 3 kHz Bandwidth (dBm) |
|---------|-----------|--|
| 01 | 2412 | -17.02 |
| 06 | 2437 | -16.93 |
| 11 | 2462 | -18.77 |

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



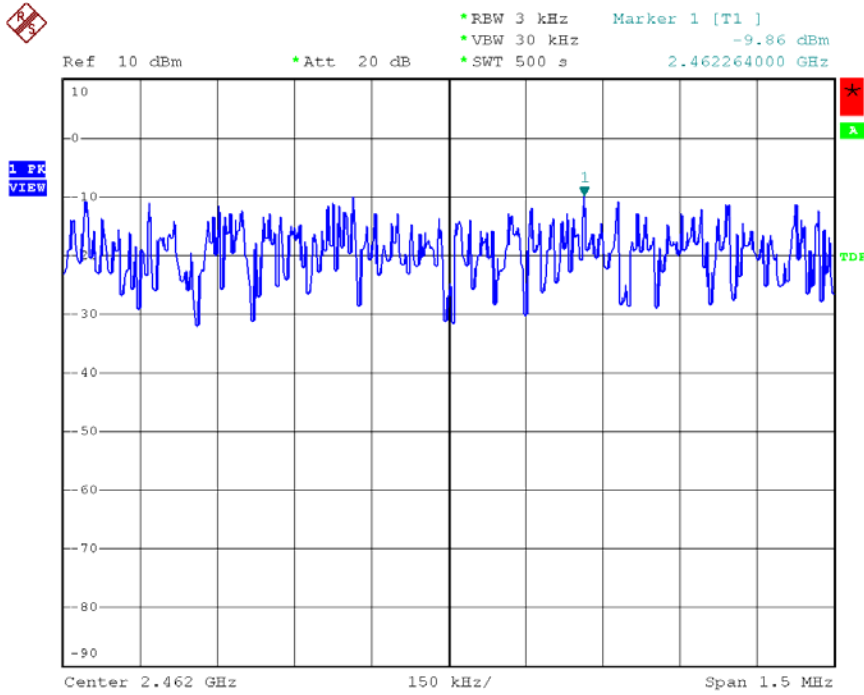
Date: 23.MAY.2006 17:57:58

Channel:06



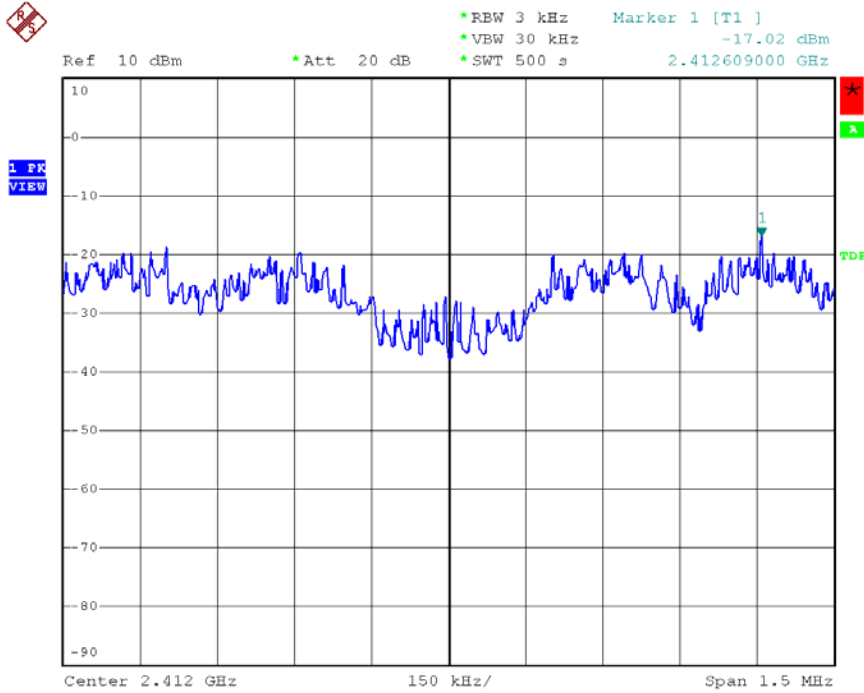
Date: 23.MAY.2006 18:00:17

Channel: 11



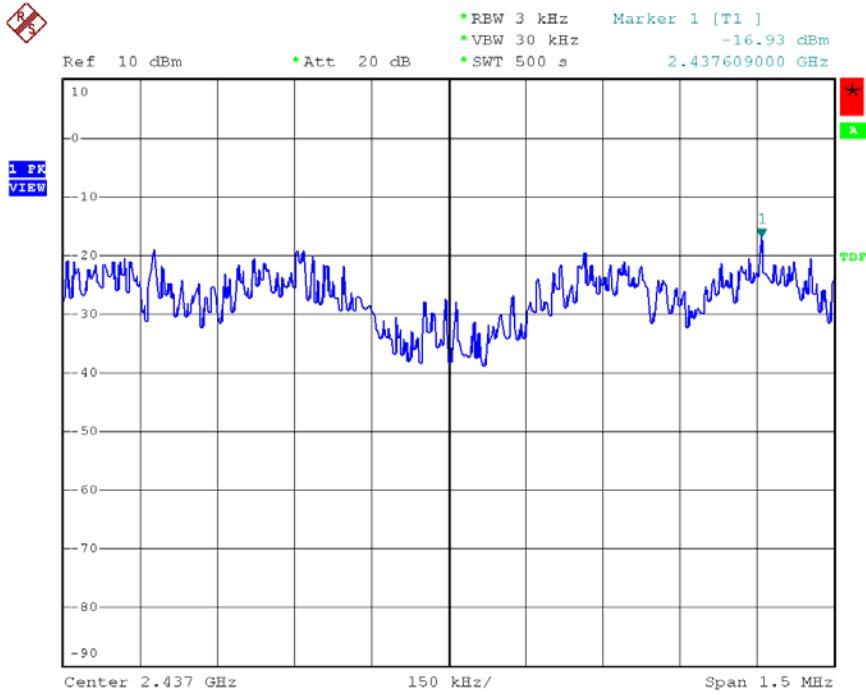
Date: 23.MAY.2006 18:02:09

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



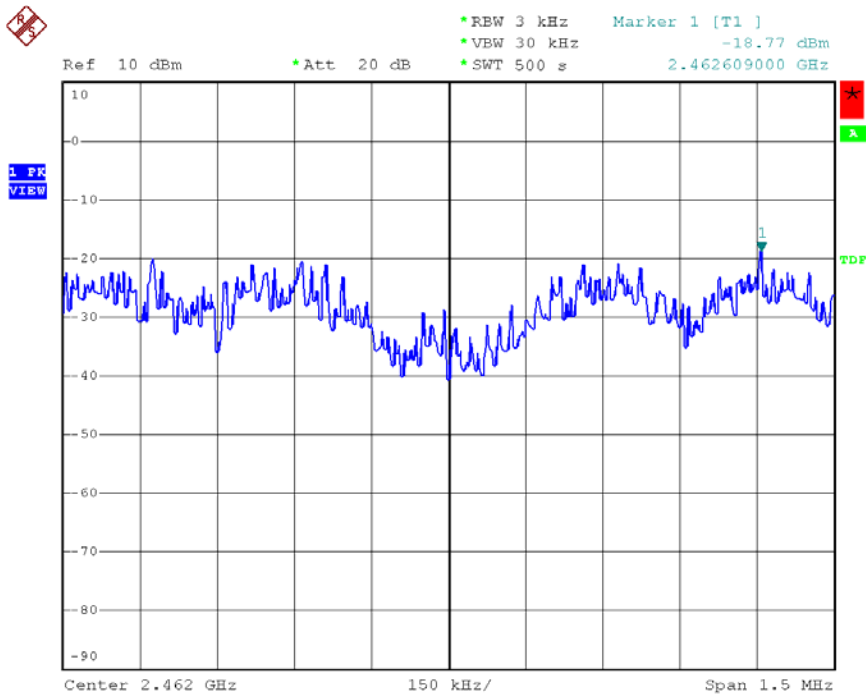
Date: 23.MAY.2006 17:53:30

Channel: 06



Date: 23.MAY.2006 17:51:46

Channel:11



Date: 26.MAY.2006 13:48:26

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





