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FEDERAL COMMUNICATIONS COMMISSION
Registration number: 282399

Report No.: GLEMR070401041RFT
Page: 1 of 37
Contain FCC ID: TE7WN56XG

TEST REPORT

Application No. : GLEMR070401041RF
Applicant: TP-LINK TECHNOLOGIES CO., LTD
Contain FCC ID: TE7WN56XG
**Fundamental Carrier
Frequency :** 2.412GHz to 2.462GHz
Equipment Under Test (EUT):
Name: 54M Wireless ADSL2+ Router
Model No.: TD-W8910G
Trade Mark: TP-LINK
Standards: FCC PART 15, SUBPART C: 2007 (Section 15.247);
Date of Receipt: 24 April 2007
Date of Test: 24 April to 25 May 2007
Date of Issue: 29 June 2007

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further details.

Authorized Signature:

Stephen Guo
Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.
This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



2 Test Summary

| For the class II permissive change of the application for the EUT. | | | |
|---|-------------------------|----------------------------|---------------|
| Test | Test Requirement | Standard Paragraph | Result |
| Maximum Peak Output Power | FCC PART 15 :2007 | Section 15.247(b)(3) | PASS* |
| 6dB Bandwidth | FCC PART 15 :2007 | Section 15.247(a)(2) | N/A |
| Peak Power Spectral Density | FCC PART 15 :2007 | Section 15.247(e) | N/A |
| Radiated Spurious Emission | FCC PART 15 :2007 | Section 15.109& 15.209 | PASS |
| Emission on Band Edges | FCC PART 15 :2007 | Section 15.247 (d) | PASS* |
| Conducted Emission | FCC PART 15 :2007 | Section 15.107 & 15.207 | N/A |

Remark:

*: The details result please refer to the section 6.2 & 6.6 of this report.

N/A: Not applicable.

The report was based on original result of RF module which had been certificated by FCC, it complemented all necessary testing since the RF module was installed into the EUT.



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4 General Information

4.1 Client Information

Applicant Name: TP-LINK TECHNOLOGIES CO., LTD
Applicant Address: Building 7, Section 2, Honghualing Industrial Park, Xili, Nanshan District, Shenzhen, P.R.C.

4.2 General Description of E.U.T.

Name: 54M Wireless ADSL2+ Router
Model No.: TD-W8910G
Frequency Range: 2412MHz ~2462MHz
Channel Number: 11
Frequency of each channel: 2412MHz, 2417MHz, 2422MHz, 2427MHz, 2432MHz, 2437MHz, 2442MHz, 2447MHz, 2452MHz, 2457MHz, 2462MHz
Type of modulation: DSSS(802.11b mode), OFDM(802.11g mode)
Function: ADSL router with 802.11b/g wireless connect way

4.3 Details of E.U.T.

EUT Power Supply: AC adapter
1.Model:MT12-4120100-A1
Input:120V~50/60Hz AC, Output:12V DC
2.Model:DSA-12R-12 AUS 120120
Input:100-120V ~50/60Hz AC, Output:12V DC

4.4 Description of Support Units

PC can wire or wireless connect the product to the LAN.

The EUT has been tested as an independent unit. with PC system PC1, PC2 and PC3.

| Description | Manufacturer | Model No. | SN/Certificate NO |
|-------------------|-----------------|-----------|-------------------------------|
| Test PC 1 | | | |
| Personal Computer | IBM | 8126 | N/A |
| 15" Monitor | IBM | 6331-4CN | 23-NTYF6/ FCC ID:ARSCM560S |
| Mouse | IBM | MU29J | 23-048987 |
| Keyboard | IBM | KB-0225 | 2747655 |
| Test PC 2 | | | |
| Personal Computer | Hewlett-Packard | Dx7208 | CNG62707HF |
| 17" Monitor | IBM | 6737-P6N | VC-N2571/ FCC ID:BEJT17LD |
| Mouse | Maxell | MSMP-20 | N/A |
| Keyboard | Hewlett-Packard | KB-0316 | 382925-AA1 |



| Test PC 3 | | | |
|-------------------|------------------|----------|---|
| Personal Computer | DELL | DHS | N/A |
| 15" Monitor | DELL | E551c | CN-0462RM-64180-24J-00LG/ FCC ID:ARSCM356N |
| Mouse | IBM | MU29J | 23-048982 |
| Keyboard | IBM | SK-8820 | 08520200 |
| ROM Programmer | DASI Electronics | EMP-100A | N/A |
| Printer | Hewlett-Packard | C5884A | DeskJet 670C |
| Notebook | | | |
| NoteBook | IBM | T40 | 99-FBAF9 03/09 |
| NoteBook | IBM | X22 | FX-24148 00/10 |

4.5 Standards Applicable for Testing

Only class II permissive change required by the applicant.

The standard used was FCC PART 15, SUBPART C (2007) section 15.247.



4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.7 Other Information Requested by the Customer

None.

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP – Lab Code: 200611-0**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS L0167**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

- **FCC – Registration No.: 282399**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorized test laboratory for the DoC process.



5 Equipments Used during Test

| Conducted Emission | | | | | | |
|--------------------|-------------------|-----------------|----------------------------|------------|----------------------|-------------------------|
| No: | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| EMC0306 | Shielding Room | Zhong Yu | 8 x 3 x 3.8 m ³ | N/A | N/A | N/A |
| EMC0102 | LISN | Schaffner Chase | MNZ050D/1 | 1421 | 05-12-2006 | 05-12-2007 |
| EMC0506 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | 100085 | 05-12-2006 | 05-12-2007 |
| EMC0107 | Coaxial Cable | SGS | 2m | N/A | 25-11-2006 | 25-11-2007 |

| RE in Chamber/OATS | | | | | | |
|--------------------|-------------------------------|-------------------|---------------|------------|----------------------|-------------------------|
| No: | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| EMC0525 | Compact Semi-Anechoic Chamber | ChangZhou ZhongYu | N/A | N/A | 06-03-2006 | 06-03-2007 |
| EMC0522 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | 100249 | 05-12-2006 | 05-12-2007 |
| N/A | EMI Test Software | Audix | E3 | N/A | N/A | N/A |
| EMC0514 | Coaxial cable | SGS | N/A | N/A | 04-12-2006 | 04-12-2007 |
| EMC0524 | Bi-log Type Antenna | Schaffner -Chase | CBL6112B | 2966 | 31-10-2006 | 31-10-2007 |
| EMC0519 | Bilog Type Antenna | Schaffner -Chase | CBL6143 | 5070 | 31-07-2006 | 31-07-2007 |
| EMC0517 | Horn Antenna | Rohde & Schwarz | HF906 | 100095 | 29-07-2006 | 29-07-2007 |
| EMC0040 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 100324 | 05-12-2006 | 05-12-2007 |
| EMC0520 | 0.1-1300 MHz Pre-Amplifier | HP | 8447D OPT 010 | 2944A06252 | 06-03-2006 | 06-03-2007 |
| EMC0521 | 1-26.5 GHz Pre-Amplifier | Agilent | 8449B | 3008A01649 | 06-03-2006 | 06-03-2007 |
| EMC0523 | Active Loop Antenna | EMCO | 6502 | 00042963 | 09-08-2006 | 09-08-2008 |
| EMC0530 | 10m Semi- Anechoic Chamber | ETS | N/A | N/A | 22-08-2006 | 22-08-2007 |

| General used equipment | | | | | | |
|------------------------|-------------------------|-------------------|-----------|------------|----------------------|-------------------------|
| No: | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| EMC0050-EMC0053 | Temperature, & Humidity | ZHENGZHOU BO YANG | WSB | N/A | 05-12-2006 | 05-12-2007 |
| EMC0054 | Temperature, & Humidity | Shenzhen Tai Kong | THG-1 | N/A | 04-01-2007 | 04-01-2008 |
| EMC0006 | DMM | Fluke | 73 | 70681569 | 27-09-2006 | 27-09-2007 |
| EMC0007 | DMM | Fluke | 73 | 70671122 | 27-09-2006 | 27-09-2007 |



6 Test Results

6.1 E.U.T. Operation

Input voltage: 120V AC

Operating Environment:

Temperature: 23.0 -26.0 °C

Humidity: 43-60 % RH

Atmospheric Pressure: 992 -1016 mbar

EUT Operation: Test the EUT with 802.11b mode (DSSS modulation type) and 802.11g mode (OFDM modulation type) with test software supplied. Test the EUT to transmit and receive data at lowest (**Channel 1**), middle (**Channel 6**), and highest channel (**Channel 11**), individually for the compliance test.



6.2 Maximum Peak Output Power

Test Requirement: FCC Part15 247(b)(3)
Test Method: Base on ANSI 63.4.
Test Date: 8 May 2007
Test Limit: For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
Test mode: Test in transmitting mode:
802.11b (DSSS) Channel 1, Channel 6, Channel 11;
802.11g (OFDM) Channel 1, Channel 6, Channel 11.

Test Procedure:

1. Remove the antenna from the EUT and then connect a 50ohm SMA RF cable from the antenna port to the peak power meter via power sensor.
2. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

Test Result:

802.11b(DSSS)

| Test Channel | Fundamental Frequency (MHz) | Reading Power (dBm) | Cable Loss (dB) | Output Power (dBm) | Limit (dBm) | Class II PC limit (dBm \pm 20%) | PASS/ FAIL |
|--------------|-----------------------------|---------------------|-----------------|--------------------|-------------|-----------------------------------|------------|
| 1 | 2412 | 15.3 | 0.2 | 15.5 | 30.0 | 13.20 | Pass |
| 6 | 2437 | 14.9 | 0.2 | 15.1 | 30.0 | 13.14 | Pass |
| 11 | 2462 | 15.4 | 0.2 | 15.6 | 30.0 | 13.16 | Pass |

802.11g(OFDM)

| Test Channel | Fundamental Frequency (MHz) | Reading Power (dBm) | Cable Loss (dB) | Output Power (dBm) | Limit (dBm) | Class II PC limit (dBm \pm 20%) | PASS/ FAIL |
|--------------|-----------------------------|---------------------|-----------------|--------------------|-------------|-----------------------------------|------------|
| 1 | 2412 | 14.6 | 0.2 | 14.8 | 30.0 | 13.18 | Pass |
| 6 | 2437 | 13.2 | 0.2 | 13.4 | 30.0 | 13.12 | Pass |
| 11 | 2462 | 13.5 | 0.2 | 13.7 | 30.0 | 11.60 | Pass |

Remark: Class II PC limit is the original FCC ID report value \pm 20%.



6.3 6dB Bandwidth

- Test Requirement: FCC Part15 247(a)(2)
- Test Method: Base on ANSI 63.4.
- Test Date: N/A
- Test Limit: Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.
- Test mode: Test in transmitting mode: Channel 1, Channel 6, Channel 11.
- Test Procedure:
1. Remove the antenna from the EUT and then connect a 50ohm SMA RF cable from the antenna port to the spectrum analyzer.
 2. Set the RBW=VBW=100KHz, SPAN>> Bandwidth.
 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

Test Result:

N/A, not applicable, the test item did not required by the client.



6.4 Peak Power Spectral Density

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 247(e) |
| Test Method: | Base on ANSI 63.4. |
| Test Date: | N/A |
| Test Limit: | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. |
| Test mode: | Test in transmitting mode: Channel 1, Channel 6, Channel 11. |
| Test Procedure: | <ol style="list-style-type: none">1. Remove the antenna from the EUT and then connect a 50ohm SMA RF cable from the antenna port to the spectrum analyzer.2. Set the RBW=3KHz, VBW=10KHz, SPAN=300KHz, Sweep Time=100s.3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value. |

Test Result:

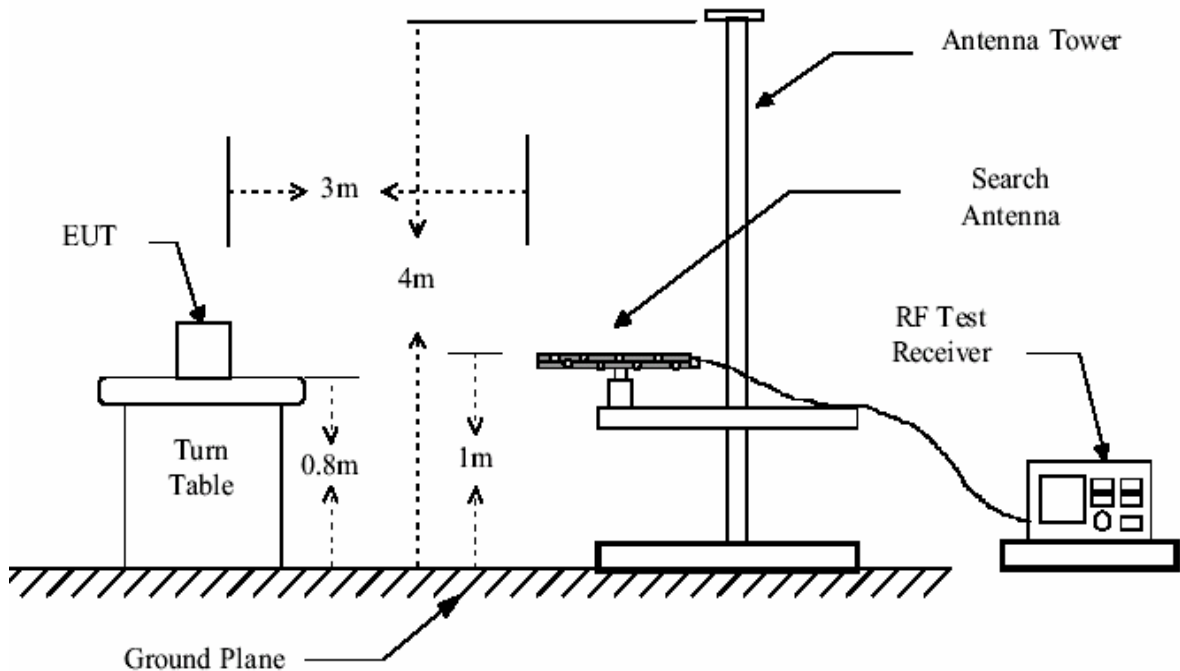
N/A, not applicable, the test item did not required by the client.

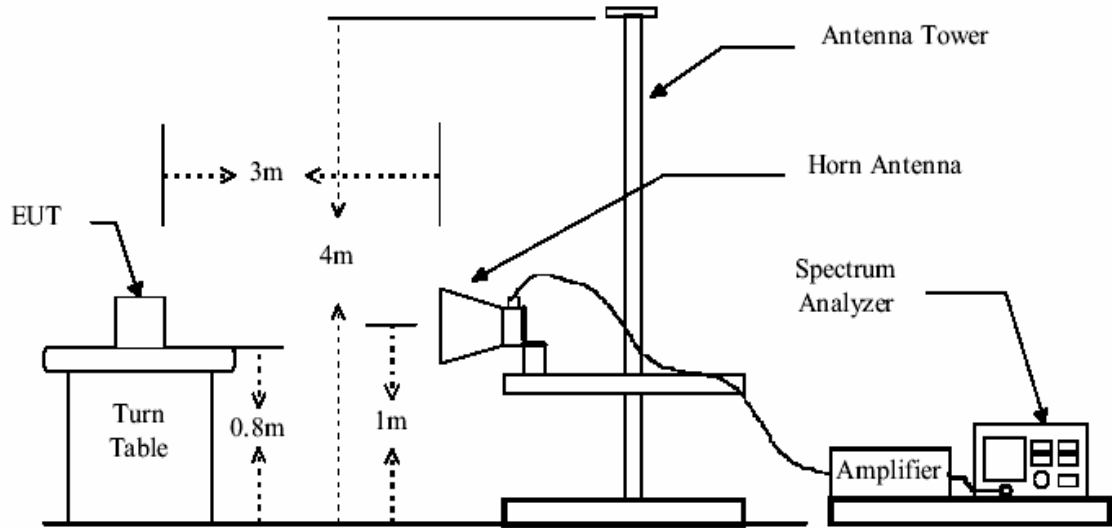
6.5 Radiated Spurious Emissions

Test Requirement: FCC Part 15.109 & 15.209
 Test Method: ANSI C63.4
 Test Date: 25 April to 27 May 2007
 Test site: Measurement Distance: 3m (Semi-Anechoic Chamber and OATS)
 Frequency range 30 MHz – 25GHz for transmitting mode.
 Test instrumentation resolution bandwidth 120 kHz and Quasi-Peak detector applies (30 MHz - 1000 MHz), 1 MHz resolution bandwidth and Peak and Average-Peak detector apply(1000 MHz – 25GHz).
 Receive antenna scan height 1 m - 4 m, polarization Vertical / Horizontal

15.109&15.209 Limit:
 40.0 dB μ V/m between 30MHz & 88MHz
 43.5 dB μ V/m between 88MHz & 216MHz
 46.0 dB μ V/m between 216MHz & 960MHz
 54.0 dB μ V/m above 960MHz

Test Configuration:





Test Procedure: The procedure used was ANSI Standard C63.4 2003. The receiver was scanned from 30MHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Peramplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Peramplifier Factor

The following test results were performed on the EUT



Test in 802.11b(DSSS) mode Channel 1 (2412MHz) in transmitting status:

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | Limit dBuV/m) | Margin (dB) |
|-----------------|----------------------|-------------------------|---------------|-------------|
| 97.560 | Vertical | 35.2 | 43.5 | 8.3 |
| 249.220 | Vertical | 40.4 | 46.0 | 5.6 |
| 299.660 | Vertical | 35.8 | 46.0 | 10.2 |
| 431.580 | Vertical | 34.2 | 46.0 | 11.8 |
| 664.380 | Vertical | 36.2 | 46.0 | 9.8 |
| 843.280 | Vertical | 35.3 | 46.0 | 10.7 |
| 101.780 | Horizontal | 38.7 | 43.5 | 4.8 |
| 230.790 | Horizontal | 45.3 | 46.0 | 0.7 |
| 249.220 | Horizontal | 44.6 | 46.0 | 1.4 |
| 279.551 | Horizontal | 45.6 | 46.0 | 0.4 |
| 299.660 | Horizontal | 42.1 | 46.0 | 3.9 |
| 498.510 | Horizontal | 36.5 | 46.0 | 9.5 |

Test in 802.11b(DSSS) mode Channel 1(2412MHz) in transmitting status:

1~25 GHz Harmonics & Spurious Emissions

Peak Measurement

| Test Frequency (MHz) | Measuring Level (dBuV/m) | | Limits (dBuV/m) | Margin (dB) | |
|----------------------------|--------------------------|------------|-----------------|-------------|------------|
| | Vertical | Horizontal | | Vertical | Horizontal |
| 4824.000 | 72.8 | 70.4 | 74.0 | 1.2 | 3.6 |
| 7236.000 | N/A | N/A | 74.0 | N/A | N/A |
| Average Measurement | | | | | |
| 4824.000 | 51.3 | 50.5 | 54.0 | 2.7 | 3.5 |
| 7236.000 | N/A | N/A | 54.0 | N/A | N/A |

N/A: refer to remark 1).



Test in 802.11b(DSSS) mode Channel 6(2437MHz) in transmitting status:

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | Limit dBuV/m) | Margin (dB) |
|-----------------|----------------------|-------------------------|---------------|-------------|
| 103.560 | Vertical | 36.3 | 43.5 | 7.2 |
| 249.220 | Vertical | 40.2 | 46.0 | 5.8 |
| 299.660 | Vertical | 36.8 | 46.0 | 9.2 |
| 431.580 | Vertical | 33.1 | 46.0 | 12.9 |
| 664.380 | Vertical | 36.2 | 46.0 | 9.8 |
| 746.340 | Vertical | 35.3 | 46.0 | 10.7 |
| 97.350 | Horizontal | 38.4 | 43.5 | 5.1 |
| 230.790 | Horizontal | 44.6 | 46.0 | 1.4 |
| 249.220 | Horizontal | 42.9 | 46.0 | 3.1 |
| 279.551 | Horizontal | 45.2 | 46.0 | 0.8 |
| 299.660 | Horizontal | 42.5 | 46.0 | 3.5 |
| 650.320 | Horizontal | 37.5 | 46.0 | 8.5 |

Test in 802.11b(DSSS) mode Channel 6(2437MHz) in transmitting status:

1~25 GHz Harmonics & Spurious Emissions

Peak Measurement

| Test Frequency (GHz) | Measuring Level (dBuV/m) | | Limits (dBuV/m) | Margin (dB) | |
|----------------------|--------------------------|------------|-----------------|-------------|------------|
| | Vertical | Horizontal | | Vertical | Horizontal |
| 4874.000 | 71.6 | 70.5 | 74.0 | 2.4 | 3.5 |
| 7311.000 | N/A | N/A | 74.0 | N/A | N/A |
| Average Measurement | | | | | |
| 4874.000 | 53.2 | 51.2 | 54.0 | 0.8 | 2.8 |
| 7311.000 | N/A | N/A | 54.0 | N/A | N/A |

N/A: refer to remark 1).



Test in 802.11b(DSSS) mode Channel 11(2462MHz) in transmitting status:

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | Limit dBuV/m) | Margin (dB) |
|-----------------|----------------------|-------------------------|---------------|-------------|
| 103.560 | Vertical | 36.3 | 43.5 | 7.2 |
| 249.220 | Vertical | 40.2 | 46.0 | 5.8 |
| 299.660 | Vertical | 36.8 | 46.0 | 9.2 |
| 431.580 | Vertical | 33.1 | 46.0 | 12.9 |
| 664.380 | Vertical | 36.2 | 46.0 | 9.8 |
| 746.340 | Vertical | 35.3 | 46.0 | 10.7 |
| 97.350 | Horizontal | 38.4 | 43.5 | 5.1 |
| 230.790 | Horizontal | 44.6 | 46.0 | 1.4 |
| 249.220 | Horizontal | 42.9 | 46.0 | 3.1 |
| 279.551 | Horizontal | 45.2 | 46.0 | 0.8 |
| 299.660 | Horizontal | 42.5 | 46.0 | 3.5 |
| 650.320 | Horizontal | 37.5 | 46.0 | 8.5 |

Test in 802.11b(DSSS) mode Channel 11(2462MHz) in transmitting status:

1~25 GHz Harmonics & Spurious Emissions

Peak Measurement

| Test Frequency (GHz) | Measuring Level (dBuV/m) | | Limits (dBuV/m) | Margin (dB) | |
|----------------------|--------------------------|------------|-----------------|-------------|------------|
| | Vertical | Horizontal | | Vertical | Horizontal |
| 4924.000 | 71.9 | 69.8 | 74.0 | 2.1 | 4.2 |
| 7386.000 | N/A | N/A | 74.0 | N/A | N/A |
| Average Measurement | | | | | |
| 4924.000 | 52.5 | 51.0 | 54.0 | 1.5 | 3.0 |
| 7386.000 | N/A | N/A | 54.0 | N/A | N/A |

N/A: refer to remark 1).



Remark:

- 1). N/A: Not applicable. For this intentional radiator operates below 25 GHz, the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And the disturbance of this intentional radiator above the third harmonic is too weak to measure.
- 2). According to 15.249 (d) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 3) Any other emissions are too weak to be detected and are not reported.



Test in 802.11g(OFDM) mode Channel 1 (2412MHz) in transmitting status:

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | Limit dBuV/m) | Margin (dB) |
|-----------------|----------------------|-------------------------|---------------|-------------|
| 97.560 | Vertical | 35.2 | 43.5 | 8.3 |
| 249.220 | Vertical | 40.4 | 46.0 | 5.6 |
| 299.660 | Vertical | 35.8 | 46.0 | 10.2 |
| 431.580 | Vertical | 34.2 | 46.0 | 11.8 |
| 664.380 | Vertical | 36.2 | 46.0 | 9.8 |
| 843.280 | Vertical | 35.3 | 46.0 | 10.7 |
| 101.780 | Horizontal | 38.7 | 43.5 | 4.8 |
| 230.790 | Horizontal | 45.3 | 46.0 | 0.7 |
| 249.220 | Horizontal | 44.6 | 46.0 | 1.4 |
| 279.551 | Horizontal | 45.6 | 46.0 | 0.4 |
| 299.660 | Horizontal | 42.1 | 46.0 | 3.9 |
| 498.510 | Horizontal | 36.5 | 46.0 | 9.5 |

Test in 802.11g(OFDM) mode Channel 1(2412MHz) in transmitting status:

1~25 GHz Harmonics & Spurious Emissions

Peak Measurement

| Test Frequency (MHz) | Measuring Level (dBuV/m) | | Limits (dBuV/m) | Margin (dB) | |
|----------------------------|--------------------------|------------|-----------------|-------------|------------|
| | Vertical | Horizontal | | Vertical | Horizontal |
| 4824.000 | 72.8 | 70.4 | 74.0 | 1.2 | 3.6 |
| 7236.000 | N/A | N/A | 74.0 | N/A | N/A |
| Average Measurement | | | | | |
| 4824.000 | 51.3 | 50.5 | 54.0 | 2.7 | 3.5 |
| 7236.000 | N/A | N/A | 54.0 | N/A | N/A |

N/A: refer to remark 1).



Test in 802.11g(OFDM) mode Channel 6(2437MHz) in transmitting status:

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | Limit dBuV/m) | Margin (dB) |
|-----------------|----------------------|-------------------------|---------------|-------------|
| 103.560 | Vertical | 36.3 | 43.5 | 7.2 |
| 249.220 | Vertical | 40.2 | 46.0 | 5.8 |
| 299.660 | Vertical | 36.8 | 46.0 | 9.2 |
| 431.580 | Vertical | 33.1 | 46.0 | 12.9 |
| 664.380 | Vertical | 36.2 | 46.0 | 9.8 |
| 746.340 | Vertical | 35.3 | 46.0 | 10.7 |
| 97.350 | Horizontal | 38.4 | 43.5 | 5.1 |
| 230.790 | Horizontal | 44.6 | 46.0 | 1.4 |
| 249.220 | Horizontal | 42.9 | 46.0 | 3.1 |
| 279.551 | Horizontal | 45.2 | 46.0 | 0.8 |
| 299.660 | Horizontal | 42.5 | 46.0 | 3.5 |
| 650.320 | Horizontal | 37.5 | 46.0 | 8.5 |

Test in 802.11g(OFDM) mode Channel 6(2437MHz) in transmitting status:

1~25 GHz Harmonics & Spurious Emissions

Peak Measurement

| Test Frequency (GHz) | Measuring Level (dBuV/m) | | Limits (dBuV/m) | Margin (dB) | |
|----------------------|--------------------------|------------|-----------------|-------------|------------|
| | Vertical | Horizontal | | Vertical | Horizontal |
| 4874.000 | 71.6 | 70.5 | 74.0 | 2.4 | 3.5 |
| 7311.000 | N/A | N/A | 74.0 | N/A | N/A |
| Average Measurement | | | | | |
| 4874.000 | 53.2 | 51.2 | 54.0 | 0.8 | 2.8 |
| 7311.000 | N/A | N/A | 54.0 | N/A | N/A |

N/A: refer to remark 1).



Test in 802.11g(OFDM) mode Channel 11(2462MHz) in transmitting status:

30MHz~1GHz Spurious Emissions ,Quasi-Peak Measurement

| Frequency (MHz) | Antenna Polarization | Emission Level (dBuV/m) | Limit dBuV/m) | Margin (dB) |
|-----------------|----------------------|-------------------------|---------------|-------------|
| 103.560 | Vertical | 36.3 | 43.5 | 7.2 |
| 249.220 | Vertical | 40.2 | 46.0 | 5.8 |
| 299.660 | Vertical | 36.8 | 46.0 | 9.2 |
| 431.580 | Vertical | 33.1 | 46.0 | 12.9 |
| 664.380 | Vertical | 36.2 | 46.0 | 9.8 |
| 746.340 | Vertical | 35.3 | 46.0 | 10.7 |
| 97.350 | Horizontal | 38.4 | 43.5 | 5.1 |
| 230.790 | Horizontal | 44.6 | 46.0 | 1.4 |
| 249.220 | Horizontal | 42.9 | 46.0 | 3.1 |
| 279.551 | Horizontal | 45.2 | 46.0 | 0.8 |
| 299.660 | Horizontal | 42.5 | 46.0 | 3.5 |
| 650.320 | Horizontal | 37.5 | 46.0 | 8.5 |

Test in 802.11g(OFDM) mode Channel 11(2462MHz) in transmitting status:

1~25 GHz Harmonics & Spurious Emissions

Peak Measurement

| Test Frequency (GHz) | Measuring Level (dBuV/m) | | Limits (dBuV/m) | Margin (dB) | |
|----------------------------|--------------------------|------------|-----------------|-------------|------------|
| | Vertical | Horizontal | | Vertical | Horizontal |
| 4924.000 | 71.9 | 69.8 | 74.0 | 2.1 | 4.2 |
| 7386.000 | N/A | N/A | 74.0 | N/A | N/A |
| Average Measurement | | | | | |
| 4924.000 | 52.5 | 51.0 | 54.0 | 1.5 | 3.0 |
| 7386.000 | N/A | N/A | 54.0 | N/A | N/A |

N/A: refer to remark 1).



Remark:

- 1). N/A: Not applicable. For this intentional radiator operates below 25 GHz, the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And the disturbance of this intentional radiator above the third harmonic is too weak to measure.
- 2). According to 15.249 (d) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 3) Any other emissions are too weak to be detected and are not reported.



6.6 Band Edges Requirement

| | |
|-------------------|---|
| Test Requirement: | FCC Part 15.247(d) |
| Test Method: | Based on ANSI 63.4 Operation within the band 2400 – 2483.5 MHz |
| Test Date: | 25 April 2007 |
| Requirements: | Section 15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). |

6.6.1 100 kHz Bandwidth Outside the Frequency Band

Method of Measurement: Set RBW of spectrum analyzer to 100 kHz and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge.
The band edges was measured and recorded.

Test Result:

1. 802.11b (DSSS) mode:

The Lower Edge 2.4000GHz: the value is -41.8dB below 2.412GHz(channel 1) the lowest fundamental carrier that is attenuated more than 20dB. And the Max emission level is -34.9dB below the 2.412GHz(channel 1) fundamental carrier that is attenuated more than 20dB.

The Upper Edge 2.4835GHz: the value is -41.0dB below 2.462GHz(channel 11) the highest fundamental carrier that is attenuated more than 20dB. And the Max emission level is -28.8dB below the 2.412GHz(channel 1) fundamental carrier that is attenuated more than 20dB

2. 802.11g(OFDM) mode:

The Lower Edge 2.4000GHz: the value is -38.9dB below 2.412GHz(channel 1) the lowest fundamental carrier that is attenuated more than 20dB. And the Max emission level is -31.7dB below the 2.412GHz(channel 1) fundamental carrier that is attenuated more than 20dB.

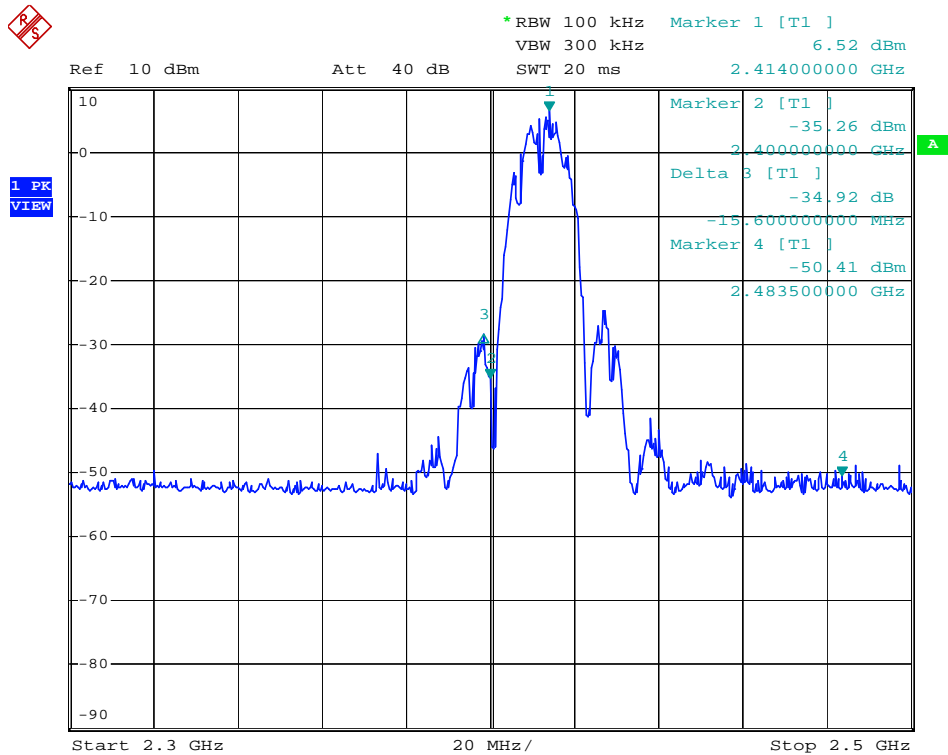
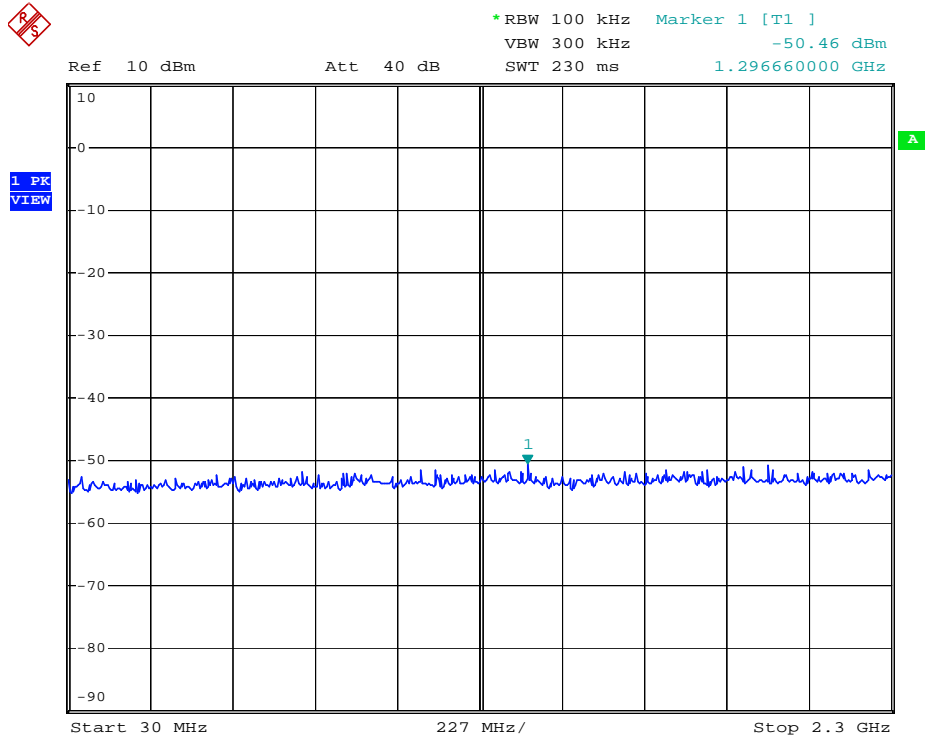
The Upper Edge 2.4835GHz: the value is -44.4dB below 2.462GHz(channel 11) the highest fundamental carrier that is attenuated more than 20dB. And the Max emission level is -43.2dB below the 2.412GHz(channel 1) fundamental carrier that is attenuated more than 20dB.

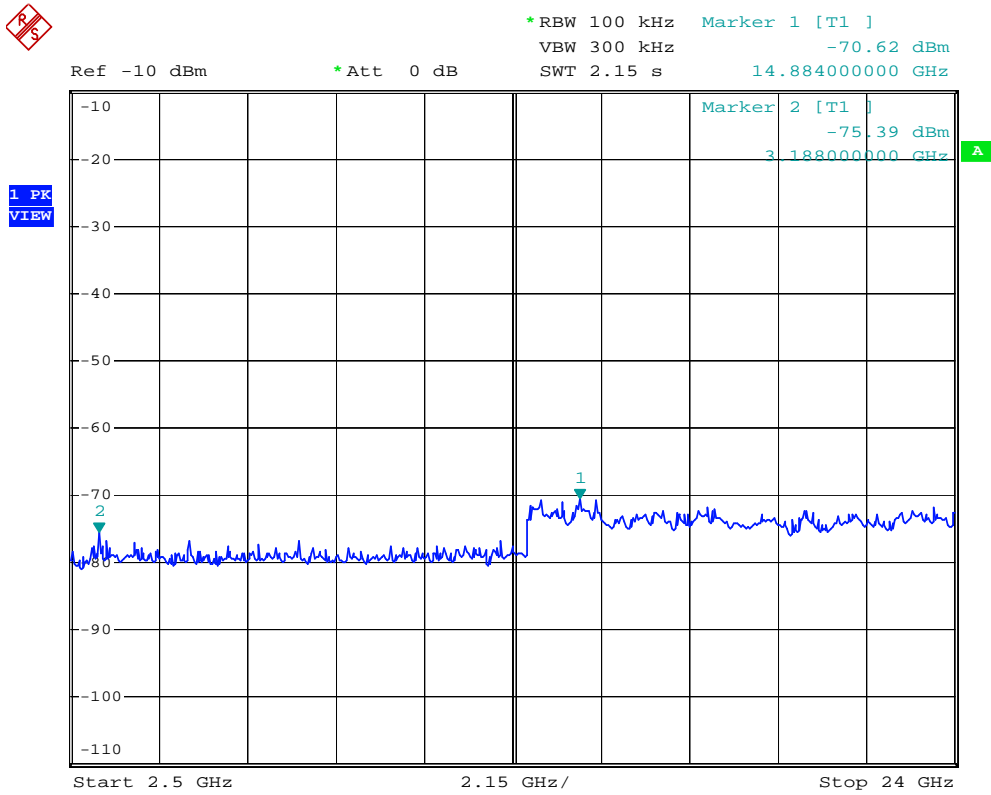
The unit does meet the FCC requirements.

The graph as below, represents the emissions take for this device.

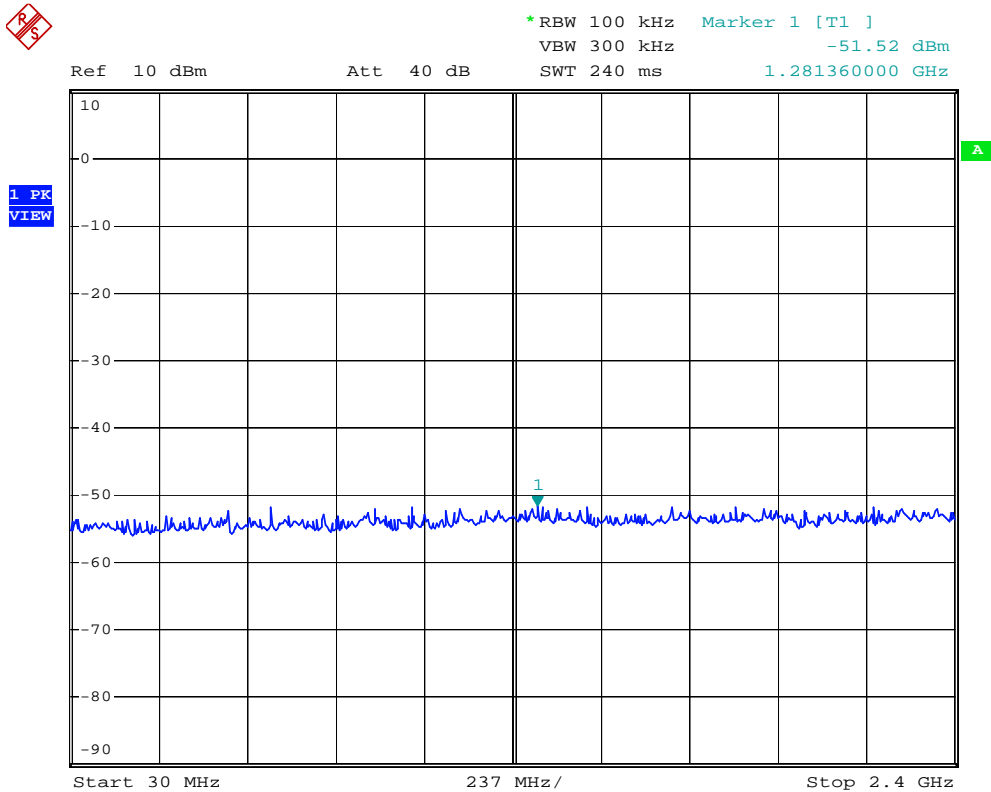
802.11b(DSSS mode)

1. For Lowest Channel: the fundamental frequency is **2.412G Hz**.





2. For Highest Channel: the fundamental frequency is **2.462GHz**.



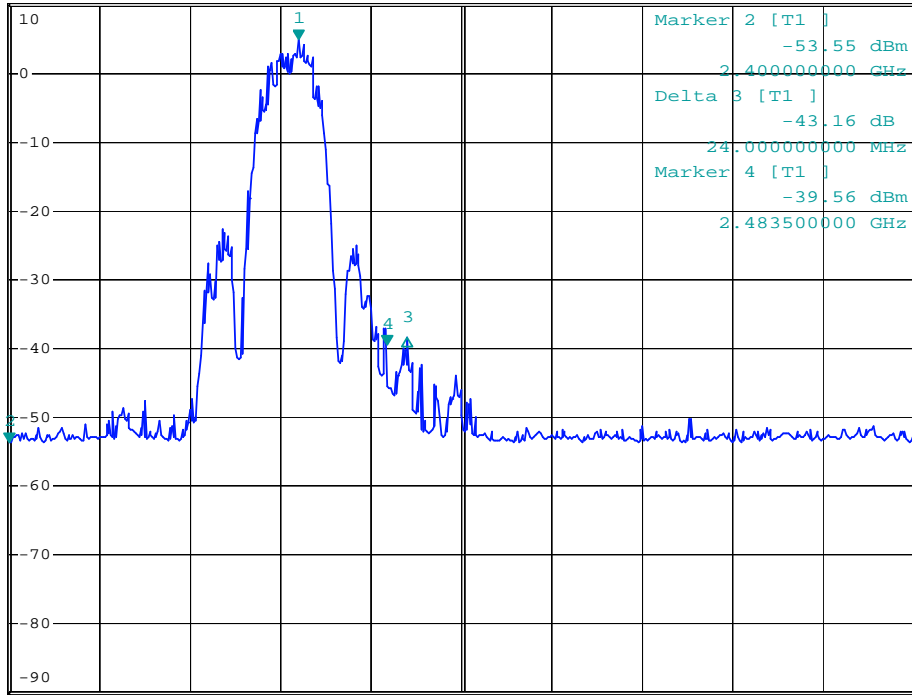


*RBW 100 kHz Marker 1 [T1]
 VBW 300 kHz 4.83 dBm
 SWT 20 ms 2.464000000 GHz

Ref 10 dBm

Att 40 dB

1 PK
 VIEW



Start 2.4 GHz

20 MHz/

Stop 2.6 GHz

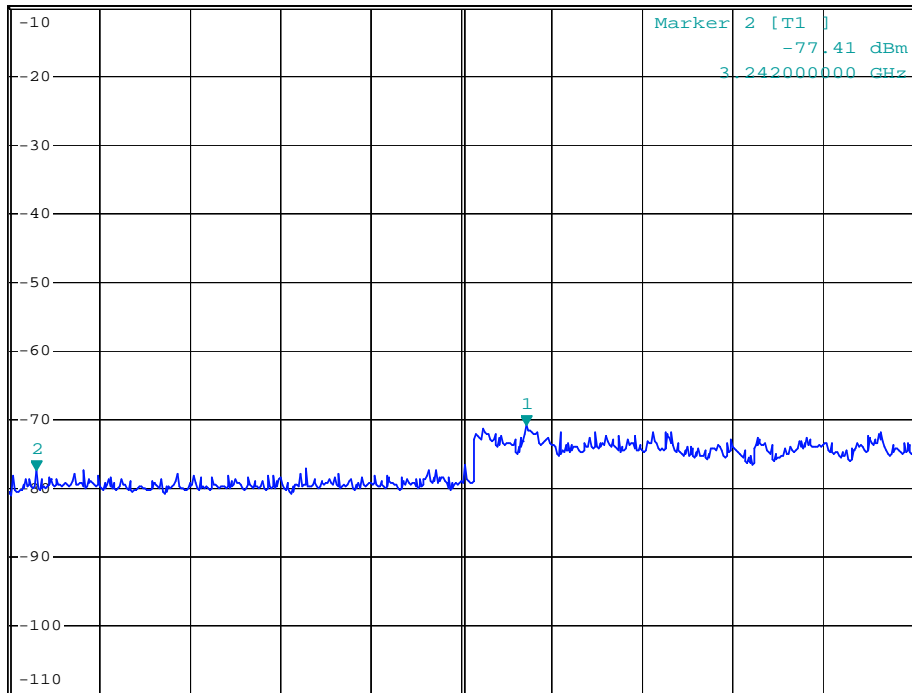


*RBW 100 kHz Marker 1 [T1]
 VBW 300 kHz -70.80 dBm
 SWT 2.15 s 14.840800000 GHz

Ref -10 dBm

*Att 0 dB

1 PK
 VIEW



Start 2.6 GHz

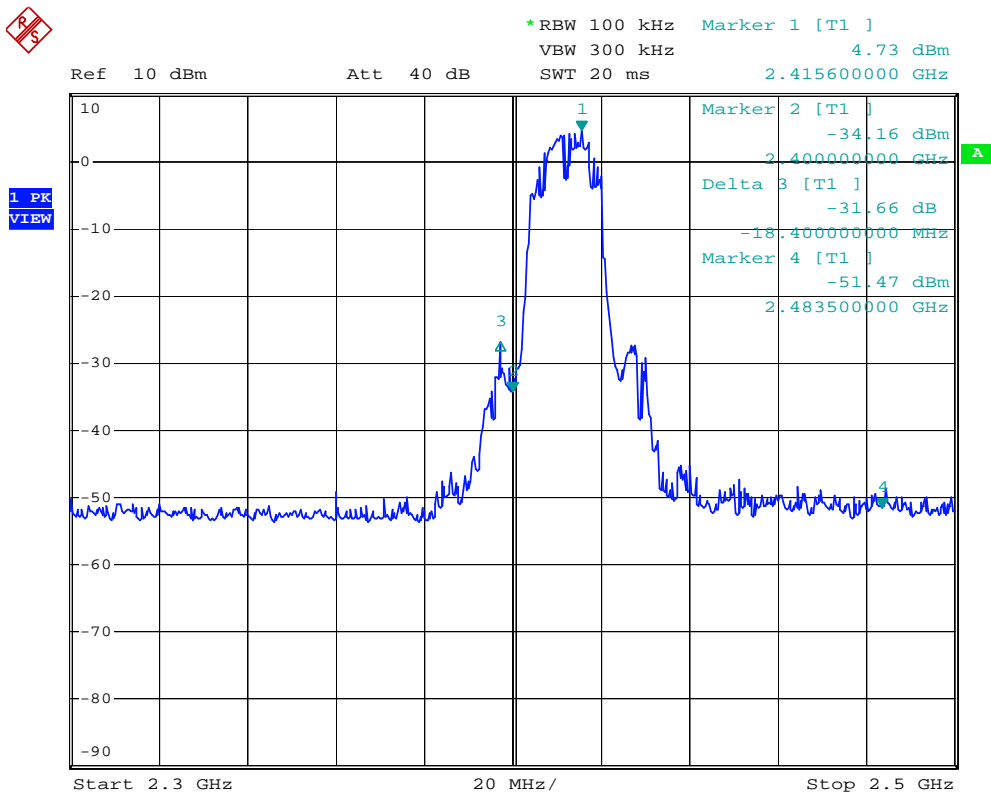
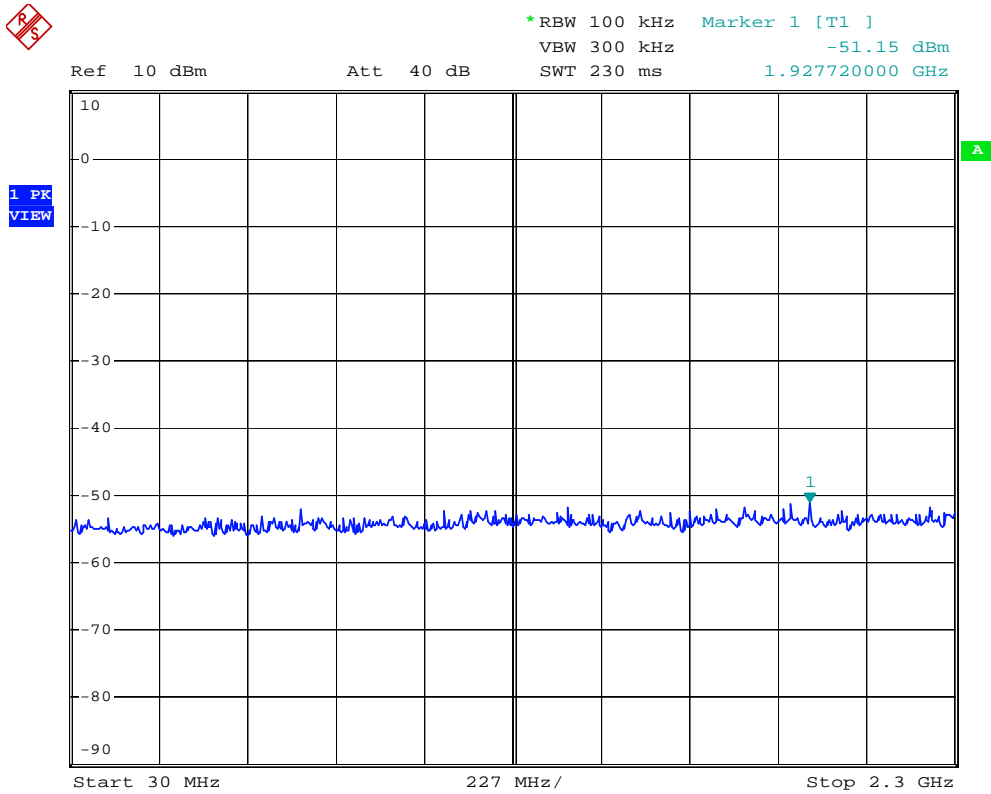
2.14 GHz/

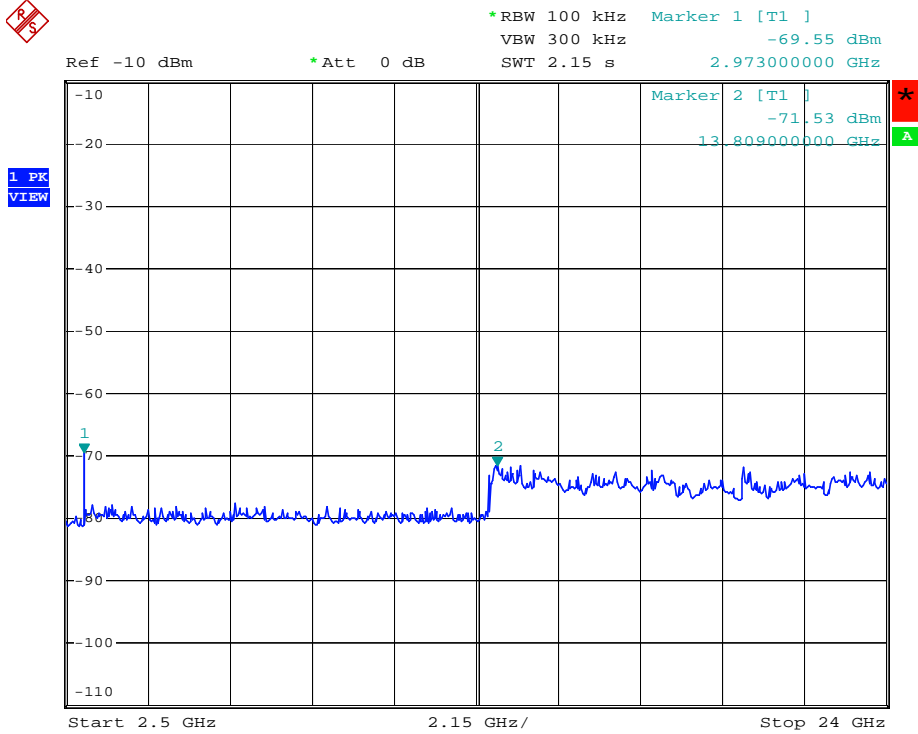
Stop 24 GHz



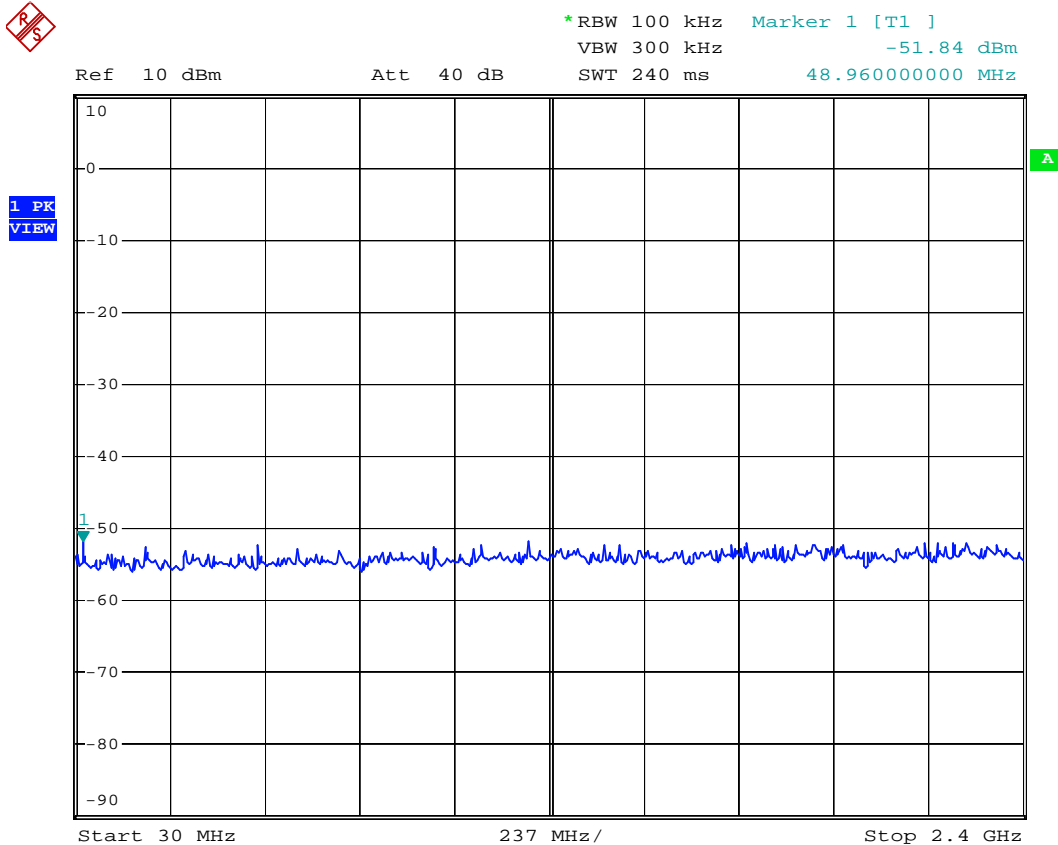
802.11g(OFDM mode)

1. For Lowest Channel: the fundamental frequency is **2.412G Hz**.



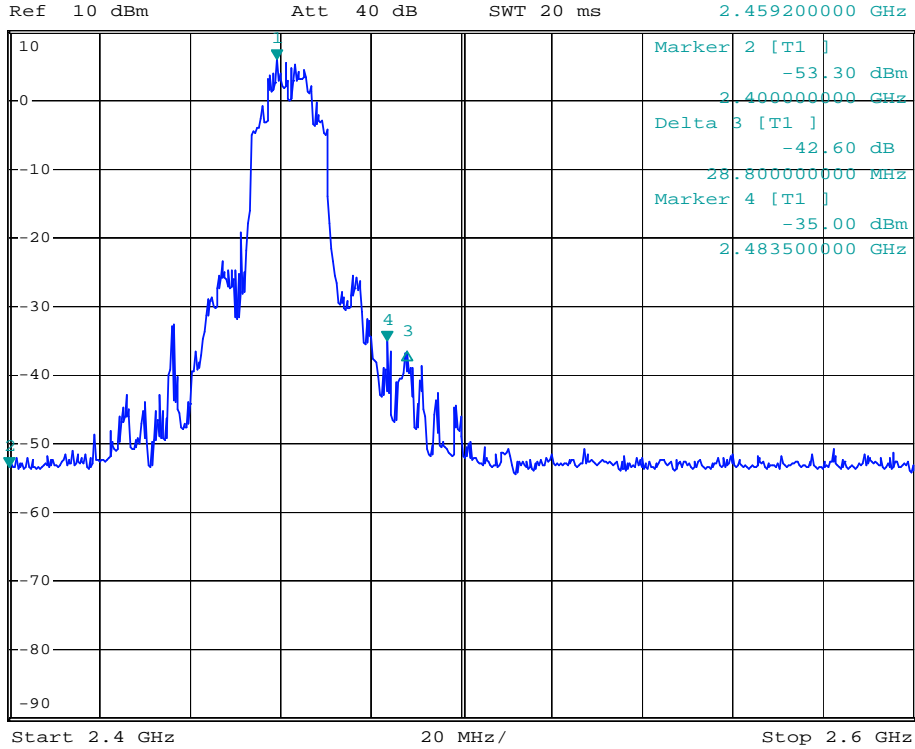


2. For Highest Channel: the fundamental frequency is **2.462GHz**.

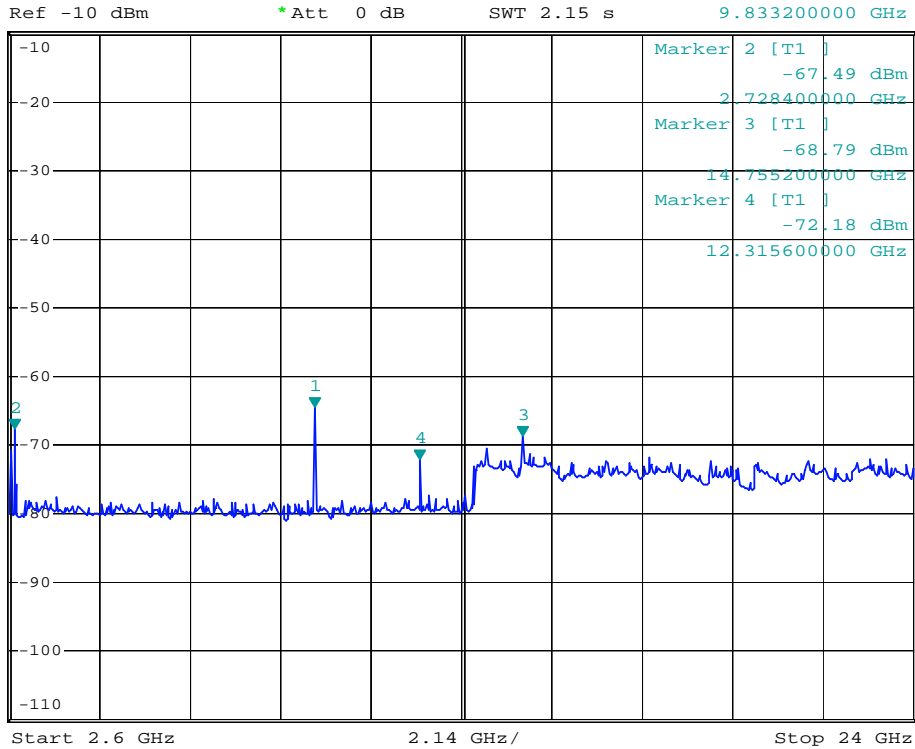




*RBW 100 kHz Marker 1 [T1]
 VBW 300 kHz 5.99 dBm
 SWT 20 ms 2.459200000 GHz



*RBW 100 kHz Marker 1 [T1]
 VBW 300 kHz -64.56 dBm
 SWT 2.15 s 9.833200000 GHz



6.6.2 Radiated Emissions which fall in the restricted bands

Section 15.247 (d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Requirement: Section 15.247 (d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Method: Base on ANSI 63.4.

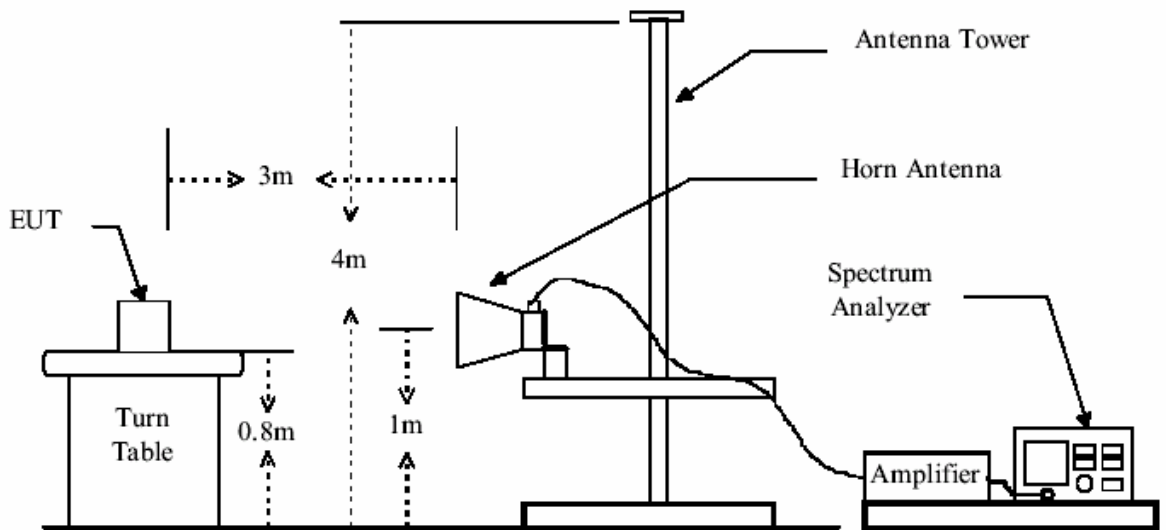
Test Date: 25 April 2007

Measurement Distance: 3m (Semi-Anechoic Chamber)

Limit: 40.0 dB μ V/m between 30MHz & 88MHz
43.5 dB μ V/m between 88MHz & 216MHz
46.0 dB μ V/m between 216MHz & 960MHz
54.0 dB μ V/m above 960MHz

Detector: Peak for pre-scan , 120kHz resolution bandwidth within 1GHz,
1MHz resolution bandwidth above 1GHz

Test Configuration:





Test Procedure: The procedure used was ANSI Standard C63.4-2003. The receiver was scanned from 30MHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. Pre-scan the restricted band **2310~2390MHz** and **2483.5~2500MHz** to find the worst case emissions to report.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

Test Result:

802.11b mode

1. Channel 1 (2.402GHz)

| Test Frequency (MHz) | Peak Level (dBuV/m) | Average Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | |
|----------------------|---------------------|------------------------|---------------------|------------------------|-------------|-----|
| | | | | | Peak | AV |
| 2390.000 | 67.8 | 52.3 | 74.0 | 54.0 | 6.2 | 1.7 |
| 2483.500 | 57.9 | 51.4 | 74.0 | 54.0 | 16.1 | 2.6 |

2. Channel 6 (2.437GHz)

| Test Frequency (MHz) | Peak Level (dBuV/m) | Average Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | |
|----------------------|---------------------|------------------------|---------------------|------------------------|-------------|-----|
| | | | | | Peak | AV |
| 2390.000 | 58.3 | 49.8 | 74.0 | 54.0 | 15.7 | 4.2 |
| 2483.500 | 57.6 | 51.2 | 74.0 | 54.0 | 16.4 | 2.8 |

3. Channel 11 (2.462GHz)

| Test Frequency (MHz) | Peak Level (dBuV/m) | Average Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | |
|----------------------|---------------------|------------------------|---------------------|------------------------|-------------|-----|
| | | | | | Peak | AV |
| 2390.000 | 56.9 | 50.3 | 74.0 | 54.0 | 17.1 | 3.7 |
| 2483.500 | 60.1 | 51.5 | 74.0 | 54.0 | 13.9 | 2.5 |



802.11g mode

1. Channel 1 (2.402GHz)

| Test Frequency (MHz) | Peak Level (dBuV/m) | Average Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | |
|----------------------|---------------------|------------------------|---------------------|------------------------|-------------|-----|
| | | | | | Peak | AV |
| 2390.000 | 65.8 | 50.2 | 74.0 | 54.0 | 8.2 | 3.8 |
| 2483.500 | 54.5 | 49.6 | 74.0 | 54.0 | 19.5 | 4.4 |

2. Channel 6 (2.437GHz)

| Test Frequency (MHz) | Peak Level (dBuV/m) | Average Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | |
|----------------------|---------------------|------------------------|---------------------|------------------------|-------------|-----|
| | | | | | Peak | AV |
| 2390.000 | 56.8 | 49.1 | 74.0 | 54.0 | 17.2 | 4.9 |
| 2483.500 | 53.5 | 48.5 | 74.0 | 54.0 | 20.5 | 5.5 |

3. Channel 11 (2.462GHz)

| Test Frequency (MHz) | Peak Level (dBuV/m) | Average Level (dBuV/m) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | |
|----------------------|---------------------|------------------------|---------------------|------------------------|-------------|-----|
| | | | | | Peak | AV |
| 2390.000 | 55.3 | 50.1 | 74.0 | 54.0 | 18.7 | 3.9 |
| 2483.500 | 54.1 | 48.2 | 74.0 | 54.0 | 19.9 | 5.8 |

The unit does meet the FCC requirements.



Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |



6.7 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part 15B 15.107 and
Part C & 15.207

Test Method: ANSI C63.4

Test Date: 24 April 2007

Frequency Range: 150KHz to 30MHz

Class / Severity: Class B

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit.

EUT Operation:

Test result:

An initial pre-scan was performed on the live and neutral lines with peak detector.

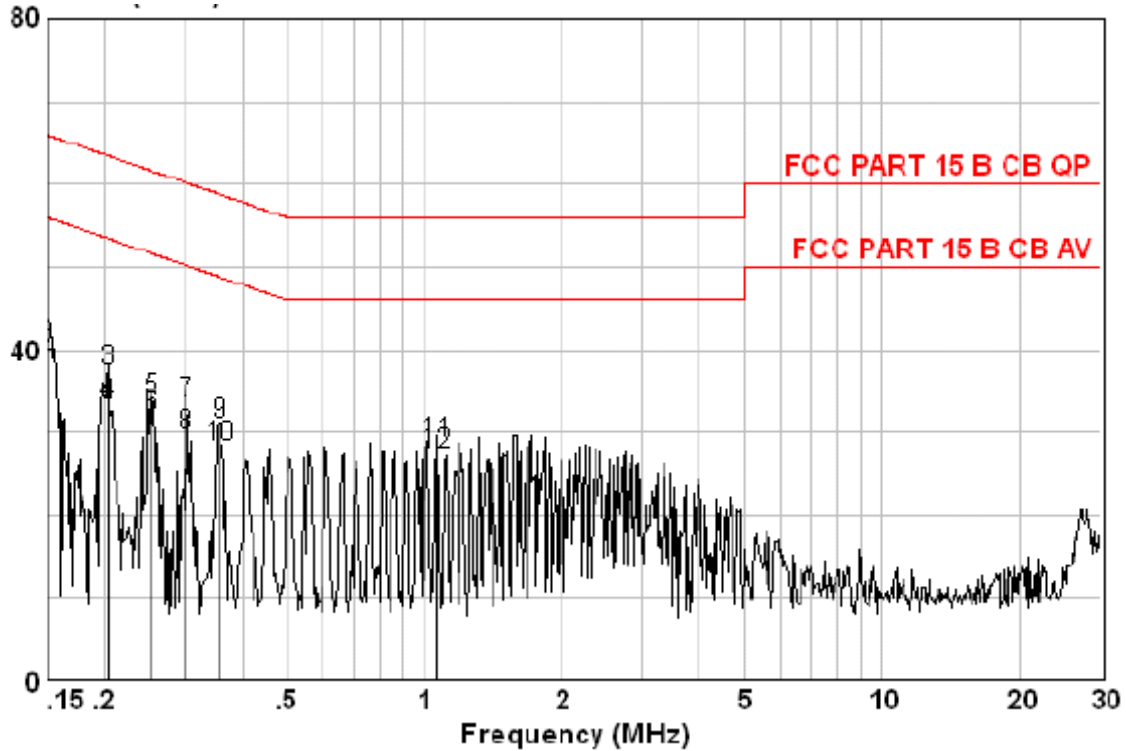
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

The following Quasi-Peak and Average measurements were performed on the EUT :



AC adapter 1. Model: DSA-23R-23AUS12012

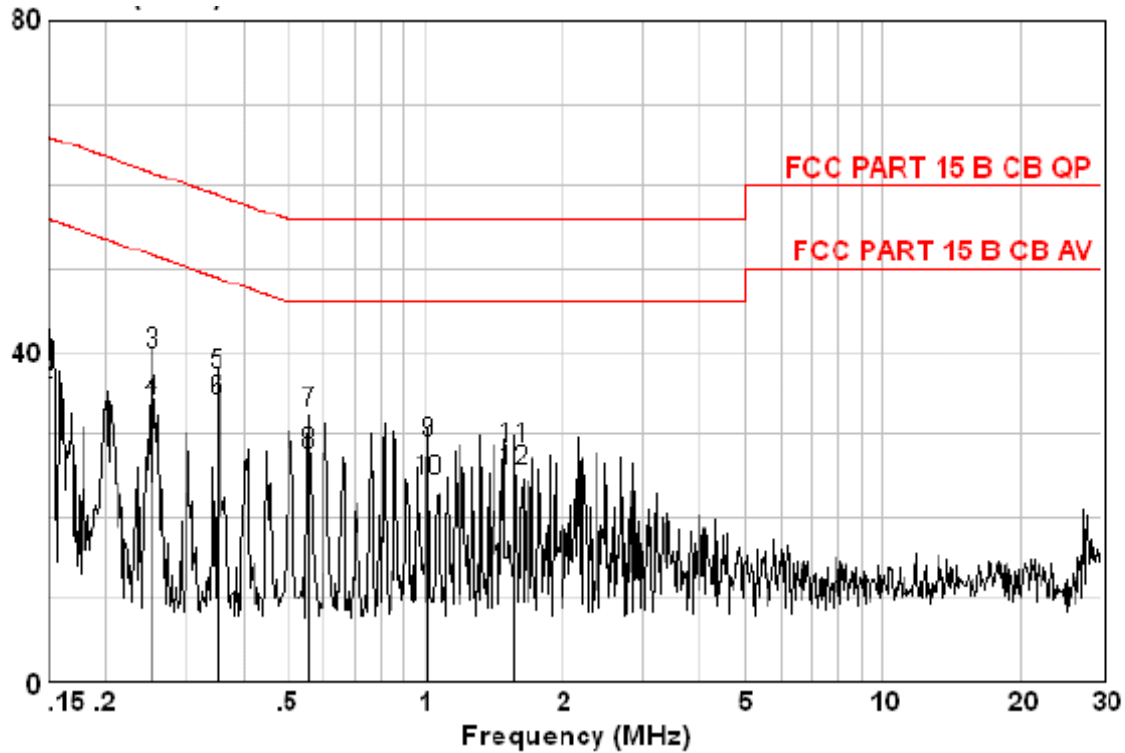
Live Line:



| | Freq | Read Level | Cable Loss | LISN Factor | Level | Limit Line | Over Limit | Remark |
|----|-------|------------|------------|-------------|-------|------------|------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.150 | 42.45 | 0.00 | 0.00 | 42.45 | 66.00 | -23.55 | QP |
| 2 | 0.150 | 39.25 | 0.00 | 0.00 | 39.25 | 56.00 | -16.75 | AVERAGE |
| 3 | 0.203 | 37.21 | 0.00 | 0.10 | 37.31 | 63.49 | -26.18 | QP |
| 4 | 0.203 | 33.14 | 0.00 | 0.10 | 33.24 | 53.49 | -20.25 | AVERAGE |
| 5 | 0.253 | 33.87 | 0.00 | 0.10 | 33.97 | 61.64 | -27.67 | QP |
| 6 | 0.253 | 31.68 | 0.00 | 0.10 | 31.78 | 51.64 | -19.86 | AVERAGE |
| 7 | 0.302 | 33.37 | 0.00 | 0.10 | 33.47 | 60.19 | -26.72 | QP |
| 8 | 0.302 | 29.39 | 0.00 | 0.10 | 29.49 | 50.19 | -20.70 | AVERAGE |
| 9 | 0.358 | 30.81 | 0.00 | 0.10 | 30.91 | 58.78 | -27.87 | QP |
| 10 | 0.358 | 28.14 | 0.00 | 0.10 | 28.24 | 48.78 | -20.54 | AVERAGE |
| 11 | 1.065 | 28.53 | 0.01 | 0.09 | 28.63 | 56.00 | -27.37 | QP |
| 12 | 1.065 | 27.26 | 0.01 | 0.09 | 27.36 | 46.00 | -18.64 | AVERAGE |



Neutral Line

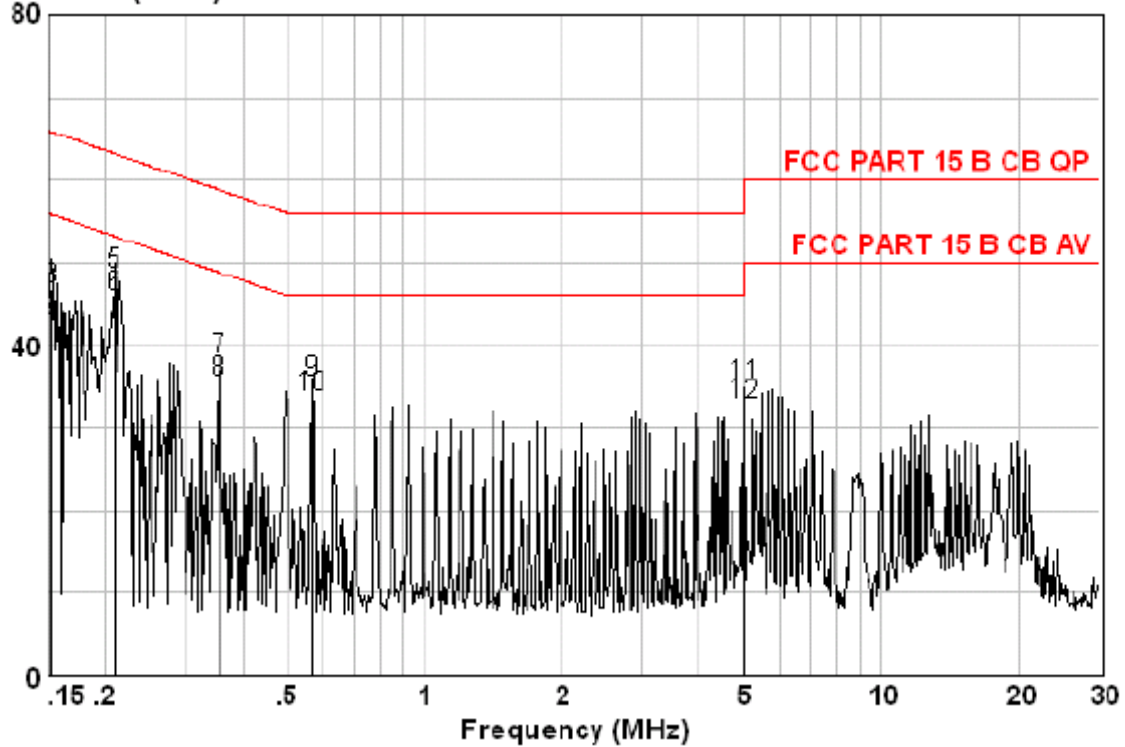


| | Read Freq | Cable Loss | LISN Factor | Limit Line | Over Limit | Remark |
|----|-----------|------------|-------------|------------|------------|----------------------|
| | MHz | dB | dB | dBuV | dB | |
| 1 | 0.150 | 41.11 | 0.00 | 0.10 | 41.21 | 66.00 -24.79 QP |
| 2 | 0.150 | 35.91 | 0.00 | 0.10 | 36.01 | 56.00 -19.99 AVERAGE |
| 3 | 0.253 | 39.49 | 0.00 | 0.10 | 39.59 | 61.64 -22.05 QP |
| 4 | 0.253 | 33.78 | 0.00 | 0.10 | 33.88 | 51.64 -17.76 AVERAGE |
| 5 | 0.352 | 36.97 | 0.00 | 0.10 | 37.07 | 58.91 -21.84 QP |
| 6 | 0.352 | 33.73 | 0.00 | 0.10 | 33.83 | 48.91 -15.08 AVERAGE |
| 7 | 0.558 | 32.47 | 0.00 | 0.07 | 32.54 | 56.00 -23.46 QP |
| 8 | 0.558 | 27.34 | 0.00 | 0.07 | 27.41 | 46.00 -18.59 AVERAGE |
| 9 | 1.016 | 28.85 | 0.00 | 0.10 | 28.95 | 56.00 -27.05 QP |
| 10 | 1.016 | 24.32 | 0.00 | 0.10 | 24.42 | 46.00 -21.58 AVERAGE |
| 11 | 1.568 | 28.19 | 0.02 | 0.04 | 28.25 | 56.00 -27.75 QP |
| 12 | 1.568 | 25.35 | 0.02 | 0.04 | 25.41 | 46.00 -20.59 AVERAGE |



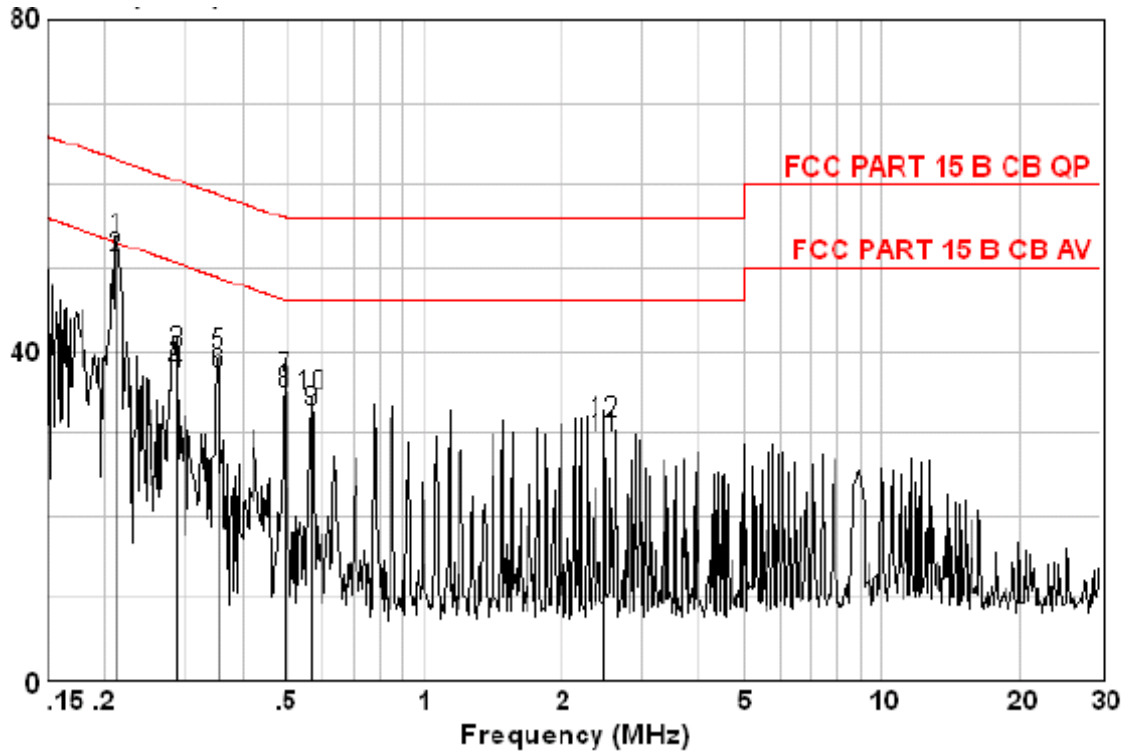
AC adapter 2. Model:MT12-4120100-A1

Live line:



| | Read Freq | Cable Loss | LISN Factor | Limit Line | Over Limit | Remark | |
|----|-----------|------------|-------------|------------|------------|--------------|---------|
| | MHz | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.150 | 48.27 | 0.00 | 0.00 | 48.27 | 66.00 -17.73 | QP |
| 2 | 0.150 | 42.96 | 0.00 | 0.00 | 42.96 | 56.00 -13.04 | AVERAGE |
| 3 | 0.153 | 46.71 | 0.00 | 0.01 | 46.72 | 65.82 -19.11 | QP |
| 4 | 0.153 | 42.46 | 0.00 | 0.01 | 42.47 | 55.82 -13.36 | AVERAGE |
| 5 | 0.211 | 48.61 | 0.00 | 0.10 | 48.71 | 63.18 -14.47 | QP |
| 6 | 0.211 | 45.82 | 0.00 | 0.10 | 45.92 | 53.18 -7.26 | AVERAGE |
| 7 | 0.354 | 38.13 | 0.00 | 0.10 | 38.23 | 58.87 -20.64 | QP |
| 8 | 0.354 | 35.48 | 0.00 | 0.10 | 35.58 | 48.87 -13.29 | AVERAGE |
| 9 | 0.567 | 35.55 | 0.00 | 0.06 | 35.61 | 56.00 -20.39 | QP |
| 10 | 0.567 | 33.57 | 0.00 | 0.06 | 33.63 | 46.00 -12.37 | AVERAGE |
| 11 | 5.031 | 34.97 | 0.08 | 0.10 | 35.15 | 60.00 -24.85 | QP |
| 12 | 5.031 | 32.56 | 0.08 | 0.10 | 32.74 | 50.00 -17.26 | AVERAGE |

Neutral line:



| | Read | Cable | LISN | Limit | Over | |
|-------|-------|-------|--------|-------|-------|----------------------|
| Freq | Level | Loss | Factor | Line | Limit | Remark |
| MHz | dBuV | dB | dB | dBuV | dB | |
| 1 | 0.212 | 53.35 | 0.00 | 0.10 | 53.45 | 63.14 -9.69 QP |
| 2 Max | 0.212 | 51.11 | 0.00 | 0.10 | 51.21 | 53.14 -1.93 AVERAGE |
| 3 | 0.286 | 39.63 | 0.00 | 0.10 | 39.73 | 60.63 -20.90 QP |
| 4 | 0.286 | 36.94 | 0.00 | 0.10 | 37.04 | 50.63 -13.59 AVERAGE |
| 5 | 0.354 | 39.45 | 0.00 | 0.10 | 39.55 | 58.87 -19.32 QP |
| 6 | 0.354 | 36.98 | 0.00 | 0.10 | 37.08 | 48.87 -11.79 AVERAGE |
| 7 | 0.494 | 36.55 | 0.00 | 0.10 | 36.65 | 56.10 -19.45 QP |
| 8 | 0.494 | 34.80 | 0.00 | 0.10 | 34.90 | 46.10 -11.20 AVERAGE |
| 9 | 0.567 | 32.46 | 0.00 | 0.06 | 32.52 | 46.00 -13.48 AVERAGE |
| 10 | 0.567 | 34.37 | 0.00 | 0.06 | 34.43 | 56.00 -21.57 QP |
| 11 | 2.479 | 29.39 | 0.04 | 0.00 | 29.43 | 46.00 -16.57 AVERAGE |
| 12 | 2.479 | 31.09 | 0.04 | 0.00 | 31.13 | 56.00 -24.87 QP |