# Test Report

Product Name ： 3G MOBILE Wireless Router
Model No. ： WL-330N3G
FCC ID. ： MSQ-WL330N3G

Applicant ： ASUSTeK COMPUTER INC.
Address ： No.150 Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt ： 2010/11/09
Issued Date ： 2010/11/26
Report No. ： 10B400R-RFUSP42V01
Report Version ： V1.0

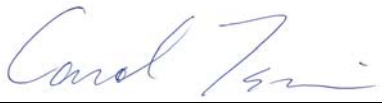
# Test Report Certification

Issued Date : 2010/11/26
Report No. : 10B400R-RFUSP42V01

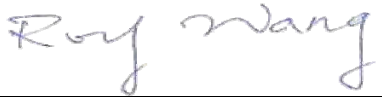
QuieTek

| | | |
|---|---|---|
| Product Name | : | 3G MOBILE Wireless Router |
| Applicant | : | ASUSTeK COMPUTER INC. |
| Address | : | No.150 Li-Te Rd., Peitou, Taipei, Taiwan |
| Manufacturer | : | GSTek (SZ) Corporation |
| Model No. | : | WL-330N3G |
| FCC ID. | : | MSQ-WL330N3G |
| EUT Voltage | : | AC 100-240V / 50/60Hz |
| Trade Name | : | ASUS |
| Applicable Standard | : | FCC CFR Title 47 Part 15 Subpart C Section 15.247:2009 |
| Test Result | : | Complied |

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By : 
( Carol Tsai / Engineering Adm. Specialist )

Reviewed By : 
( Lucia Lu / Engineer )

Approved By : 
( Roy Wang / Manager )

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# 1. General Information

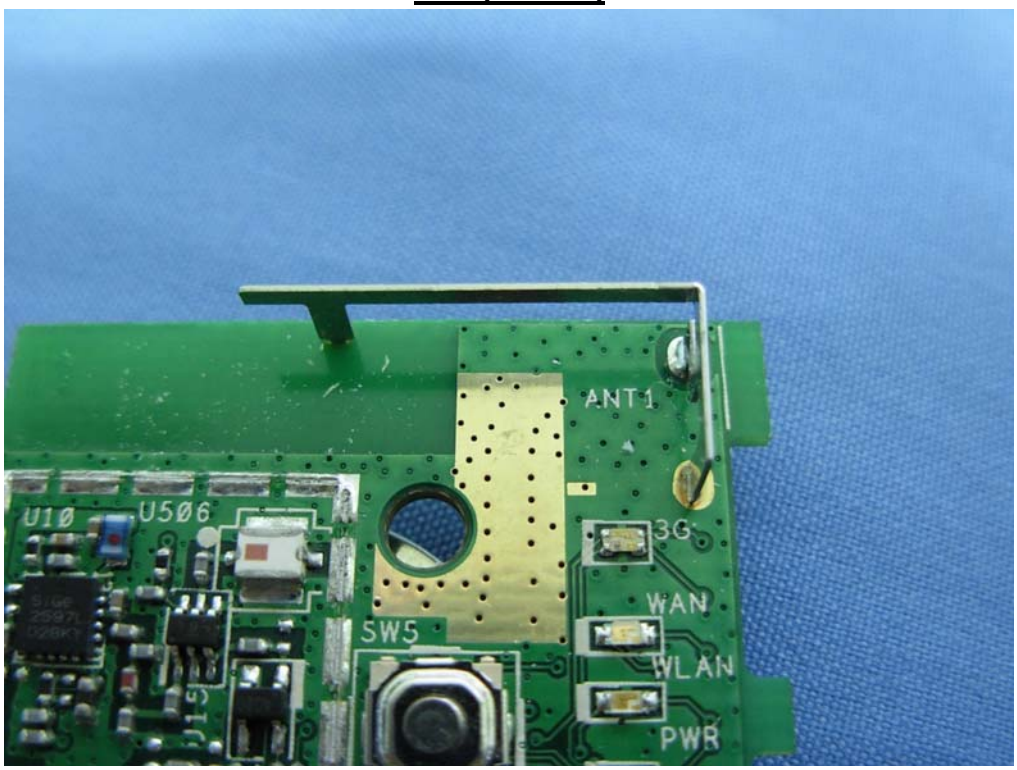
## 1.1. EUT Description

| | |
|---|---|
| Product Name | 3G MOBILE Wireless Router |
| Product Type | WLAN (1TX, 1RX) |
| Trade Name | ASUS |
| Model No. | WL-330N3G |
| Frequency Range -IEEE 802.11b/g & IEEE 802.11n (20MHz) | 2412~2462MHz |
| Frequency Range- IEEE 802.11n (40MHz) | 2422~2452MHz |
| Channel Number (IEEE 802.11b/g & IEEE 802.11n (20MHz)) | 11 |
| Channel Number- IEEE 802.11n (40MHz) | 7 |
| Type of Modulation (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Type of Modulation (IEEE 802.11g/n) | Orthogonal Frequency Division Multiplexing (OFDM) |
| Data Speed (IEEE 802.11b) | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps |
| Data Speed (IEEE 802.11g) | 6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps |
| Data Speed (IEEE 802.11n) | Support a subset of the combination of GI, MCS 0~MCS 7 and bandwidth defined in 802.11n |
| Antenna Gain | 2.6dBi |
| Channel Control | Manual |
| Antenna Type | Metal antenna on board |
| Power Adapter (Mode 1) | GOE, GS2U-010-050<br>I/P: 100~240V 0.3A 60/50Hz<br>O/P: 5V⎓2000mA 10W Max<br>Cable Out: Shielded, 1.8m |
| Power Adapter (Mode 2) | Sunny, SYS1381-1005-W2<br>I/P: 100~240V 0.5A max 50~60Hz<br>O/P: 5V⎓2.0A<br>Cable Out: Shielded, 1.4m |

**ANT-TX / Rx & Bandwidth**

| ANT-TX / Rx | TX | | Rx | |
|---|---|---|---|---|
| Mode/ Channel Bandwidth | 20MHz | 40MHz | 20MHz | 40MHz |
| IEEE802.11b | ✓ | | ✓ | |
| IEEE802.11g | ✓ | | | |
| IEEE802.11n | ✓ | ✓ | ✓ | ✓ |

**ANT (TX / RX)**



## IEEE802.11n Spec.

| MCS Index | Modulation | R | $N_{BPSCS}$ | $N_{CBPS}$ | | $N_{DBPS}$ | | Data Rate(Mb/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 20MHz | 40MHz | 20MHz | 40MHz | 800ns GI | | 400ns GI (Note1) | |
| | | | | | | | | 20MHz | 40MHz | 20MHz | 40MHz |
| 0 | BPSK | 1/2 | 1 | 52 | 108 | 26 | 54 | 6.5 | 13.5 | 7.2 | 15.0 |
| 1 | QPSK | 1/2 | 2 | 104 | 216 | 52 | 108 | 13.0 | 27.0 | 14.4 | 30.0 |
| 2 | QPSK | 3/4 | 2 | 104 | 216 | 78 | 162 | 19.5 | 40.5 | 21.7 | 45.0 |
| 3 | 16-QAM | 1/2 | 4 | 208 | 432 | 104 | 216 | 26.0 | 54.0 | 28.9 | 60.0 |
| 4 | 16-QAM | 3/4 | 4 | 208 | 432 | 156 | 324 | 39.0 | 81.0 | 43.3 | 90.0 |
| 5 | 64-QAM | 2/3 | 6 | 312 | 648 | 208 | 432 | 52.0 | 108.0 | 57.8 | 120.0 |
| 6 | 64-QAM | 3/4 | 6 | 312 | 648 | 234 | 486 | 58.5 | 121.5 | 65.0 | 135.0 |
| 7 | 64-QAM | 5/6 | 6 | 312 | 648 | 260 | 540 | 65.0 | 135.0 | 72.2 | 150.0 |
| Note 1: Support of 400ns GI is optional on transmit and receive. | | | | | | | | | | | |

Table 1 – MCS parameters for TX Antenna number = 1

| MCS Index | Modulation | R | $N_{BPSCS}$ | $N_{CBPS}$ | | $N_{DBPS}$ | | Data Rate(Mb/s) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 20MHz | 40MHz | 20MHz | 40MHz | 800ns GI | | 400ns GI (Note1) | |
| | | | | | | | | 20MHz | 40MHz | 20MHz | 40MHz |
| 8 | BPSK | 1/2 | 1 | 104 | 216 | 52 | 108 | 13.0 | 27.0 | 14.4 | 30.0 |
| 9 | QPSK | 1/2 | 2 | 208 | 432 | 104 | 216 | 26.0 | 54.0 | 28.9 | 60.0 |
| 10 | QPSK | 3/4 | 2 | 208 | 432 | 156 | 324 | 39.0 | 81.0 | 43.3 | 90.0 |
| 11 | 16-QAM | 1/2 | 4 | 416 | 864 | 208 | 432 | 52.0 | 108.0 | 57.8 | 120.0 |
| 12 | 16-QAM | 3/4 | 4 | 416 | 864 | 312 | 648 | 78.0 | 162.0 | 86.7 | 180.0 |
| 13 | 64-QAM | 2/3 | 6 | 624 | 1296 | 416 | 864 | 104.0 | 216.0 | 115.6 | 240.0 |
| 14 | 64-QAM | 3/4 | 6 | 624 | 1296 | 468 | 972 | 117.0 | 243.0 | 130.0 | 270.0 |
| 15 | 64-QAM | 5/6 | 6 | 624 | 1296 | 520 | 1080 | 130.0 | 270.0 | 144.4 | 300.0 |
| Note 1: Support of 400ns GI is optional on transmit and receive. | | | | | | | | | | | |

Table 2 – MCS parameters for TX Antenna number = 2

| Symbol | Explanation |
|---|---|
| R | Code rate |
| $N_{BPSC}$ | Number of coded bits per single carrier |
| $N_{CBPS}$ | Number of coded bits per symbol |
| $N_{DBPS}$ | Number of data bits per symbol |
| GI | guard interval |

IEEE 802.11b/g & IEEE 802.11n (20MHz)

| Working Frequency of Each Channel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 001 | 2412 MHz | 002 | 2417 MHz | 003 | 2422 MHz | 004 | 2427 MHz |
| 005 | 2432 MHz | 006 | 2437 MHz | 007 | 2442 MHz | 008 | 2447 MHz |
| 009 | 2452 MHz | 010 | 2457 MHz | 011 | 2462 MHz | | |

IEEE 802.11n (40MHz)

| Working Frequency of Each Channel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 003 | 2422 MHz | 004 | 2427 MHz | 005 | 2432 MHz | 006 | 2437 MHz |
| 007 | 2442 MHz | 008 | 2447 MHz | 009 | 2452 MHz | | |

Note:

1. This device is a 3G MOBILE Wireless Router including 2.4GHz b/g and 11n (1x1) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. This device uses different transformers: Mingtek: HN0013CG, Utron: HSC-1601-R and Mag-Link: ML1603PS. These transformers have same specification. The preliminary tests were performed in different transformers, and there was no difference on the test data. Only one data was shown in this test report.
4. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
5. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 10B400R-RFUSP37V02 under Declaration of Conformity.

## 1.3. Test Mode

QuieTek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

| | |
|---|---|
| TX | Mode 1: Transmit_GOE<br>Mode 2: Transmit_Sunny |

| Test Items | Mode | Channel | Result |
|---|---|---|---|
| Conducted Emission | 11n(40MHz) | 6 | Complies |
| Peak Power Output | b/g | 1 /6/ 11 | Complies |
| | 11n-(20MHz) | 1 /6/ 11 | Complies |
| | 11n-(40MHz) | 3 /6/ 9 | Complies |
| Radiated Emission | b/g | 1 /6/ 11 | Complies |
| | 11n-(20MHz) | 1 /6/ 11 | Complies |
| | 11n-(40MHz) | 3 /6/ 9 | Complies |
| RF antenna conducted test | b/g | 1 /11 | Complie |
| | 11n-(20MHz) | 1 /11 | Complies |
| | 11n-(40MHz) | 3 /9 | Complies |
| Radiated Emission Band Edge | b/g | 1 /11 | Complies |
| | 11n-(20MHz) | 1 /11 | Complies |
| | 11n-(40MHz) | 3 /9 | Complies |
| Occupied Bandwidth | b/g | 1 /6/ 11 | Complies |
| | 11n-(20MHz) | 1 /6/ 11 | Complies |
| | 11n-(40MHz) | 3 /6/ 9 | Complies |
| Power Density | b/g | 1 /6/ 11 | Complies |
| | 11n-(20MHz) | 1 /6/ 11 | Complies |
| | 11n-(40MHz) | 3 /6/ 9 | Complies |

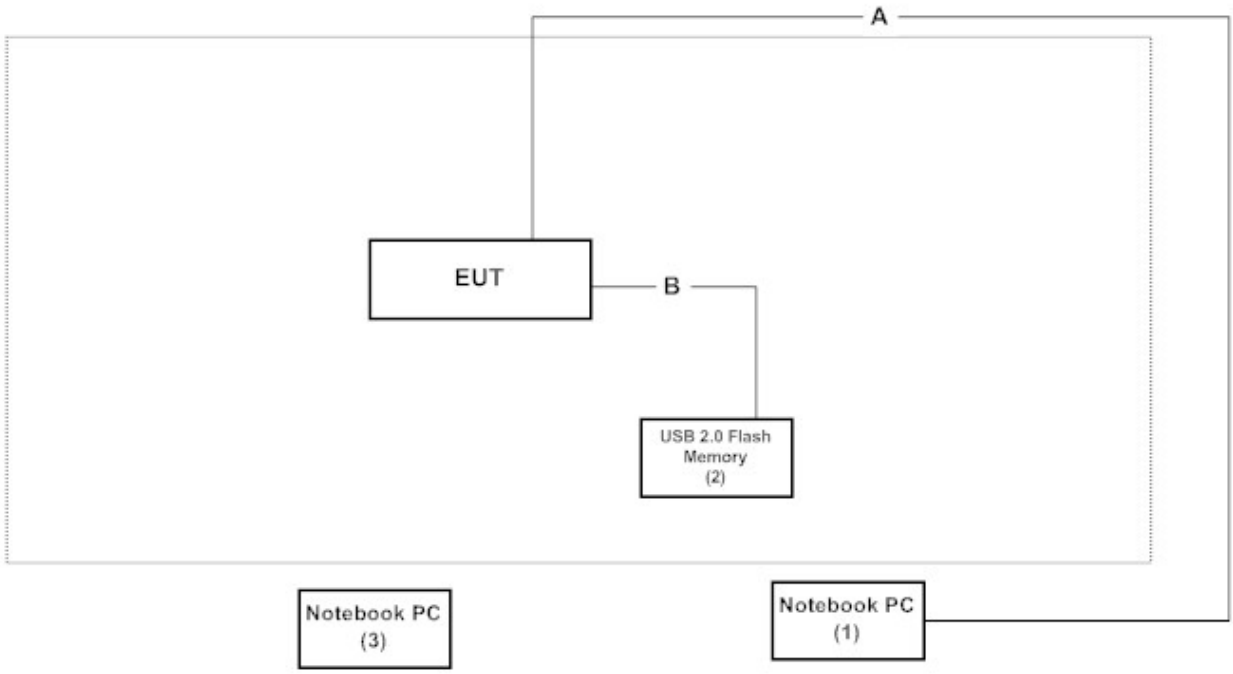
## 1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | | Manufacturer | Model No. | Serial No. | FCC ID | Power Cord |
|---|---|---|---|---|---|---|
| 1 | Notebook PC | HP Compaq | NX6320FF | CNU7020BXT | DoC | Non-Shielded, 1.8m |
| 2 | USB 2.0 Flash Memory | TOSHIBA | Trans Memory II 1 GB | N/A | DoC | -- |
| 3 | Notebook PC | DELL | Precision M65 | 28G9NIS | DoC | Non-Shielded, 1.8m |

## 1.5. Configuration of tested System

Connection Diagram




| Signal Cable Type | | Signal cable Description |
|---|---|---|
| A | LAN Cable | Non-Shielded, 10m |
| B | USB 2.0 Flash Memory Cable | Shielded, 1m |

## 1.6. EUT Exercise Software

| | |
|---|---|
| 1 | Setup the EUT and simulators as shown on 1.5. |
| 2 | Turn on the power of all equipment. |
| 3 | Boot the Notebook PC from Hard Disk. |
| 4 | Data will communicate by connecting to LAN port of Notebook PC. |
| 5 | The computer‘s monitor will show the transmitting and receiving characteristics when the communication is success. |
| 6 | Repeat the above procedure (4) to (5). |

## 1.7. Test Facility

Ambient conditions in the laboratory:

| Items | Test Item | Required (IEC 68-1) | Actual |
|---|---|---|---|
| Temperature (°C) | FCC PART 15 C 15.207 Conducted Emission | 15 - 35 | 20 |
| Humidity (%RH) | | 25 - 75 | 50 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Peak Power Output (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 50 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Radiated Emission (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 65 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 RF antenna conducted test (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 51 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Band Edge (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 48 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Occupied Bandwidth (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 51 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |
| Temperature (°C) | FCC PART 15 C 15.247 Power Density (DSSS) | 15 - 35 | 25 |
| Humidity (%RH) | | 25 - 75 | 51 |
| Barometric pressure (mbar) | | 860 - 1060 | 950-1000 |

Site Description:

September 27, 2010 File on
Federal Communications Commission
Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 365520

Accredited by TAF
Accreditation Number: 1313
Effective through: December 27, 2010

Accredited by NVLAP
NVLAP Lab Code: 200347-0
Effective through: September 30, 2011

Site Name: Quietek Corporation
Site Address: No.75-2, 3rd Lin, Wang Ye keng, Yonghxing Tsuen,
Qionglin Shiang, Hsinchu County 307,
Taiwan, R.O.C.
TEL : 886-3-592-8858 / FAX : 886-3-592-8859
E-Mail : service@quietek.com

## 2. Peak Power Output

### 2.1. Test Equipment

The following test equipments are used during the test:

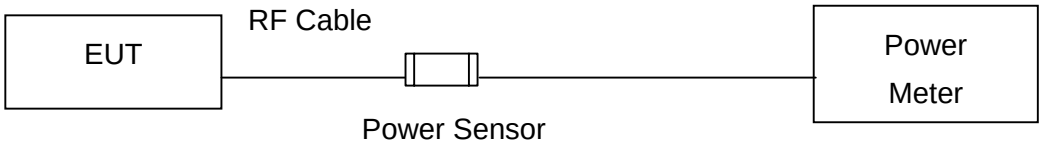
Peak Power Output / SR7

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|---|---|---|---|---|
| Power Meter | Agilent | N1911A | MY45101353 | 2011/01/17 |
| Power Sensor | Agilent | N1921A | MY45241670 | 2011/01/17 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

### 2.2. Test Setup

IEEE 802.11 b / g / n ( 20M / 40M ) MODE




### 2.3. Test procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

### 2.4. Limits

The maximum peak power shall be less 1 Watt.

### 2.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

### 2.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

## 2.7. Test Result

| | | | |
|---|---|---|---|
| Product | 3G MOBILE Wireless Router | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit_GOE | | |
| Date of Test | 2010/11/09 | Test Site | SR7 |

| IEEE 802.11b | | | | |
|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 24.64 | 1Watt= 30 dBm | Pass |
| 6 | 2437 | 23.59 | 1Watt= 30 dBm | Pass |
| 11 | 2462 | 22.60 | 1Watt= 30 dBm | Pass |

| Peak Power Output Value (dBm) | | | | | | |
|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate | | | | Required Limit |
| | | 1 | 2 | 5.5 | 11 | |
| 1 | 2412 | 24.64 | 24.31 | 23.66 | 24.12 | 1Watt= 30 dBm |
| 6 | 2437 | 23.59 | 23.42 | 23.00 | 22.95 | 1Watt= 30 dBm |
| 11 | 2462 | 22.60 | 22.38 | 22.36 | 21.82 | 1Watt= 30 dBm |

Note: Measure Level =Reading value + cable loss

| | | | |
|---|---|---|---|
| Product | 3G MOBILE Wireless Router | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit_GOE | | |
| Date of Test | 2010/11/09 | Test Site | SR7 |

| IEEE 802.11g | | | | |
|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
| 1 | 2412 | 27.54 | 1Watt= 30 dBm | Pass |
| 6 | 2437 | 27.22 | 1Watt= 30 dBm | Pass |
| 11 | 2462 | 27.33 | 1Watt= 30 dBm | Pass |

| Peak Power Output Value(dBm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Channel No. | Frequency (MHz) | Data Rate (Mbps) | | | | | | | | Required Limit |
| | | 6 | 9 | 12 | 18 | 24 | 36 | 48 | 54 | |
| 1 | 2412 | 27.54 | 27.50 | 27.26 | 27.23 | 26.80 | 26.50 | 27.37 | 27.52 | 1Watt= 30 dBm |
| 6 | 2437 | 27.22 | 27.13 | 27.19 | 26.49 | 25.53 | 25.60 | 25.49 | 25.64 | 1Watt= 30 dBm |
| 11 | 2462 | 27.33 | 26.98 | 26.93 | 26.89 | 27.17 | 26.72 | 27.01 | 27.25 | 1Watt= 30 dBm |

Note: Measure Level =Reading value + cable loss

| | | | |
|---|---|---|---|
| Product | 3G MOBILE Wireless Router | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit_GOE | | |
| Date of Test | 2010/11/09 | Test Site | SR7 |

IEEE 802.11n 20MHz_Tx

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|
| 1 | 2412 | 26.85 | 1Watt= 30 dBm | Pass |
| 6 | 2437 | 26.86 | 1Watt= 30 dBm | Pass |
| 11 | 2462 | 26.59 | 1Watt= 30 dBm | Pass |

The worst emission of data rate is 6.5 Mbps.

| Peak Power Output (dBm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MCS Index | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Required Limit |
| Channel No | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 6.5 | 13 | 19.5 | 26 | 39 | 52 | 58.8 | 65 | |
| 1 | 2412 | 26.85 | 26.07 | 25.57 | 26.72 | 26.00 | 26.08 | 25.79 | 25.96 | 30dBm |
| 6 | 2437 | 26.86 | 26.74 | 26.20 | 26.82 | 26.63 | 25.58 | 25.72 | 26.15 | 30dBm |
| 11 | 2462 | 26.59 | 26.39 | 26.48 | 26.46 | 26.45 | 25.50 | 25.51 | 25.26 | 30dBm |

| | | | |
|---|---|---|---|
| Product | 3G MOBILE Wireless Router | | |
| Test Item | Peak Power Output | | |
| Test Mode | Mode 1: Transmit_GOE | | |
| Date of Test | 2010/11/09 | Test Site | SR7 |

IEEE802.11n 40MHz_Tx

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|
| 3 | 2422 | 27.08 | 1Watt= 30 dBm | Pass |
| 6 | 2437 | 26.76 | 1Watt= 30 dBm | Pass |
| 9 | 2752 | 25.59 | 1Watt= 30 dBm | Pass |

The worst emission of data rate is 13.5Mbps

| Peak Power Output (dBm) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| MCS Index | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Required Limit |
| Channel No | Frequency (MHz) | Data Rate | | | | | | | | |
| | | 13.5 | 27 | 40.5 | 54 | 81 | 108 | 121.5 | 135 | |
| 3 | 2422 | 27.08 | 26.83 | 27.01 | 27.04 | 26.45 | 26.24 | 26.49 | 26.03 | 30dBm |
| 6 | 2437 | 26.76 | 26.70 | 26.61 | 26.28 | 26.42 | 26.65 | 25.35 | 24.34 | 30dBm |
| 9 | 2452 | 25.59 | 25.54 | 25.41 | 25.36 | 25.53 | 25.19 | 25.42 | 24.92 | 30dBm |

# 3. Radiated Emission

## 3.1. Test Equipment

The following test equipments are used during the test:

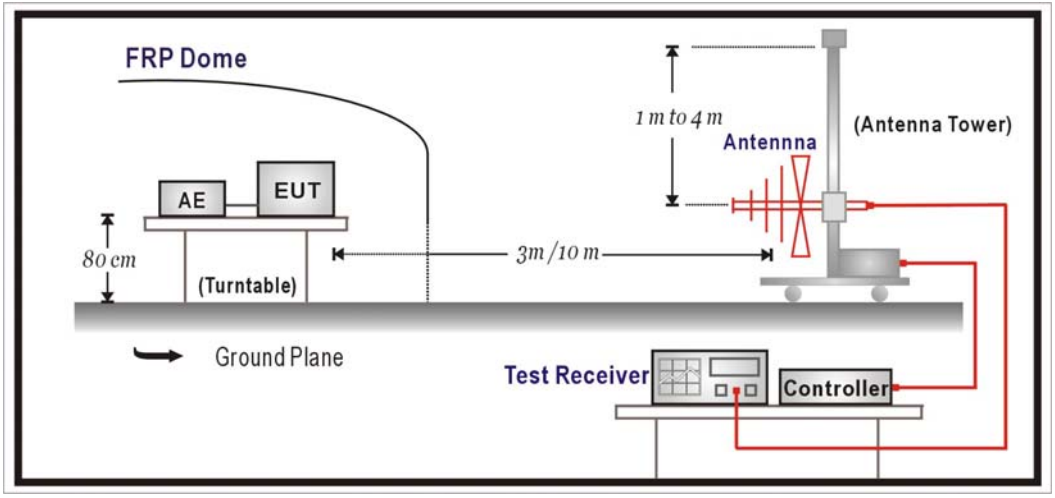
**Radiated Emission / CB1**

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|---|---|---|---|---|
| Bilog Antenna | SCHAFFNER | CBL6112B | 2895 | 2011/08/14 |
| Horn Antenna | Schwarzback | BBHA 9120D | 743 | 2011/03/14 |
| Pre-Amplifier | MITEQ | AMF-4D-005180-24-10P | 888003 | 2010/12/03 |
| Pre-Amplifier | QuieTek | AP-025C | CHM-0706049 | 2011/03/25 |
| Spectrum Analyzer | Agilent | E4440A | MY46187335 | 2011/01/14 |
| Coaxial Cable | Huber+Suhner AG | Sucoflex 102 | 25623/2 | 2011/04/07 |

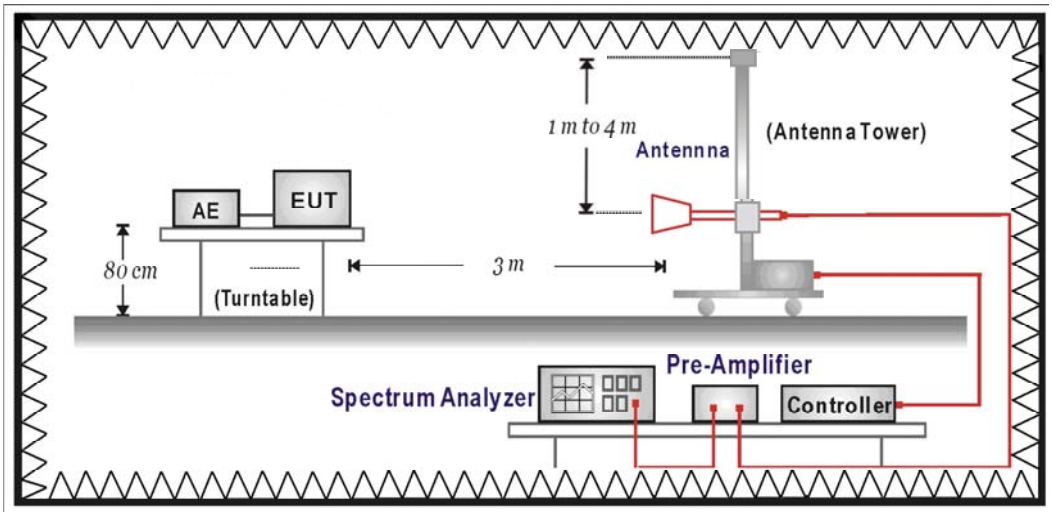
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

## 3.2. Test Setup

Under 1GHz Test Setup:




Above 1GHz Test Setup:



## 3.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | |
|---|---|---|
| Frequency MHz | dBuV/m | dBuV/m |
| 30-88 | 100 | 40 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46 |
| Above 960 | 500 | 54 |

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

## 3.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.
On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

## 3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

## 3.6. Uncertainty

The measurement uncertainty

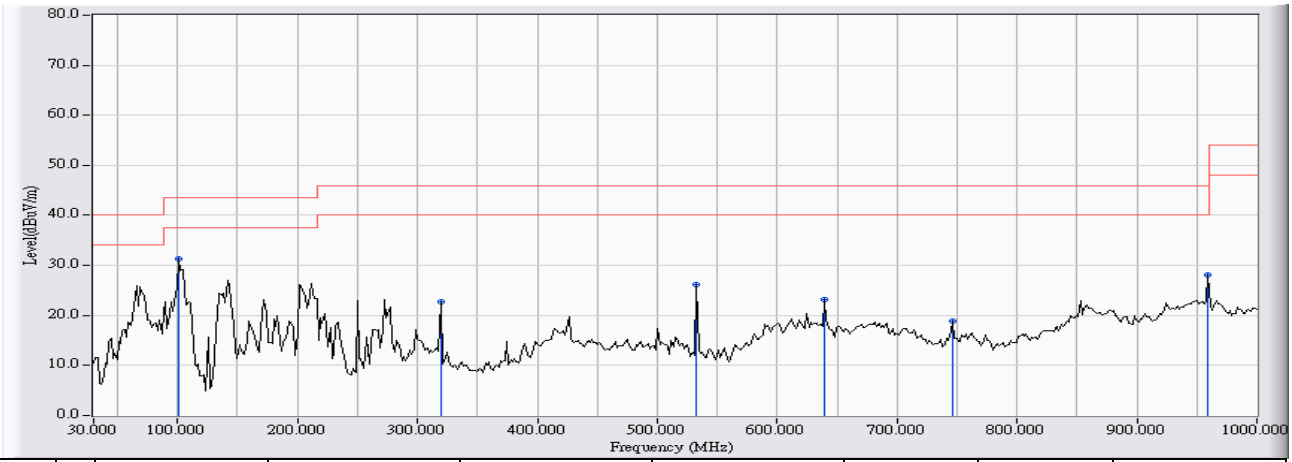
30MHz～1GHz as ±3.43dB

1GHz～26.5Ghz as ±3.65dB

## 3.7. Test Result

### 30MHz-1GHz Spurious

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 – 09:20** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b** |

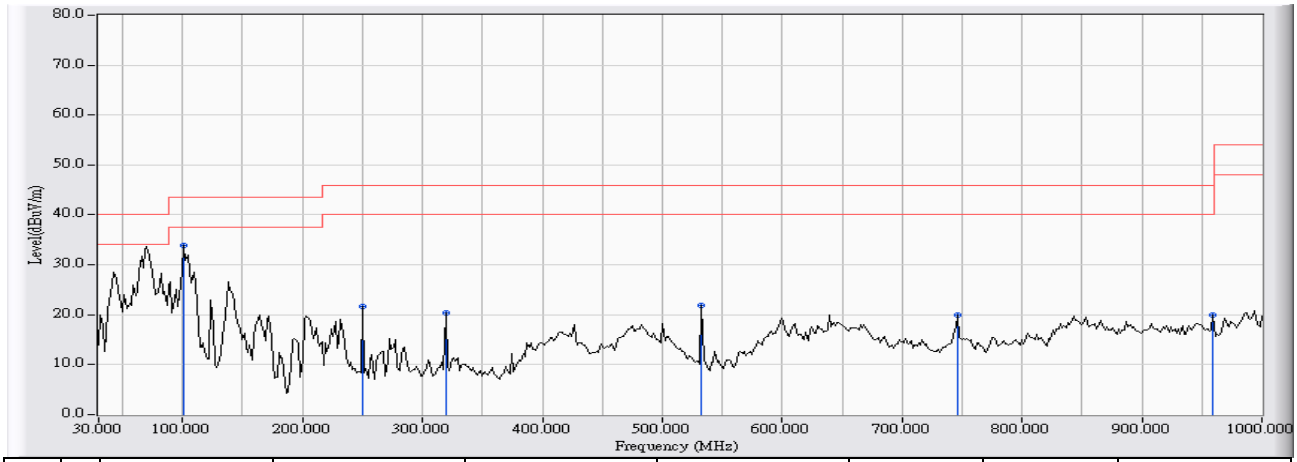



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 45.908 | 31.259 | -12.241 | 43.500 | QUASIPEAK |
| 2 | | 319.383 | -10.873 | 33.683 | 22.810 | -23.190 | 46.000 | QUASIPEAK |
| 3 | | 532.783 | -8.888 | 35.056 | 26.168 | -19.832 | 46.000 | QUASIPEAK |
| 4 | | 639.483 | -2.967 | 26.117 | 23.150 | -22.850 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 25.008 | 18.952 | -27.048 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 26.997 | 28.176 | -17.824 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 09:32** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b** |

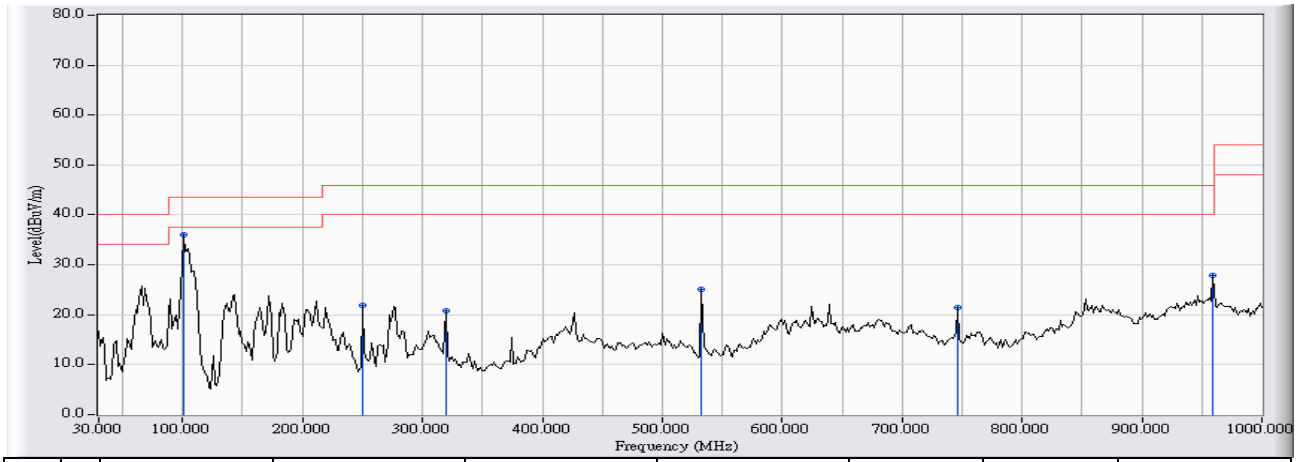



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -11.753 | 45.540 | 33.787 | -9.713 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 35.837 | 21.692 | -24.308 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 33.674 | 20.279 | -25.721 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 32.600 | 21.810 | -24.190 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -5.396 | 25.337 | 19.941 | -26.059 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | -5.055 | 24.970 | 19.915 | -26.085 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 11:25** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny802.11b** |

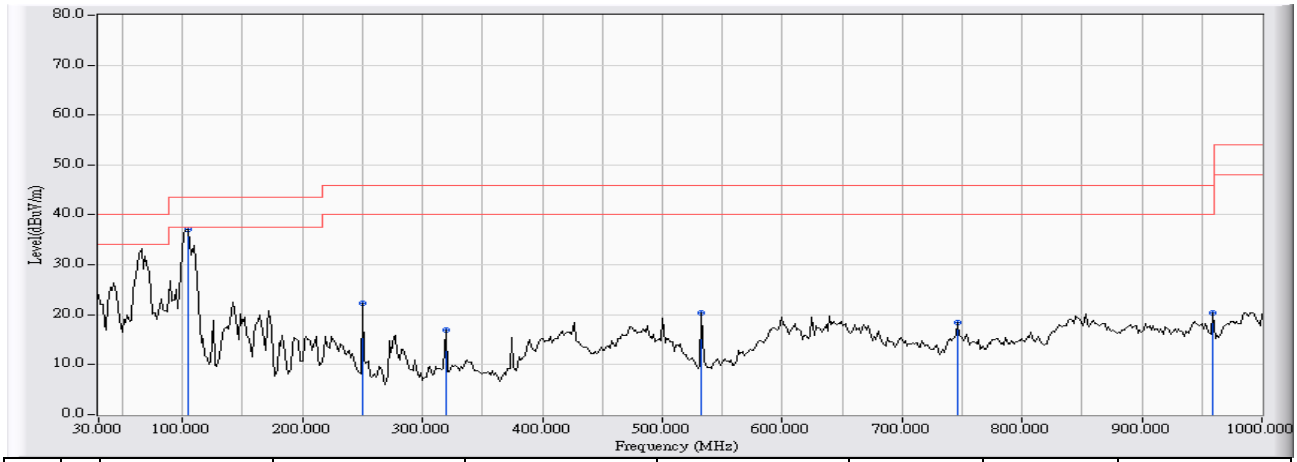



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 50.701 | 36.052 | -7.448 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -13.345 | 35.164 | 21.819 | -24.181 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -10.873 | 31.600 | 20.727 | -25.273 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -8.888 | 33.875 | 24.987 | -21.013 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 27.438 | 21.382 | -24.618 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 26.749 | 27.928 | -18.072 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 11:34** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny-802.11b** |

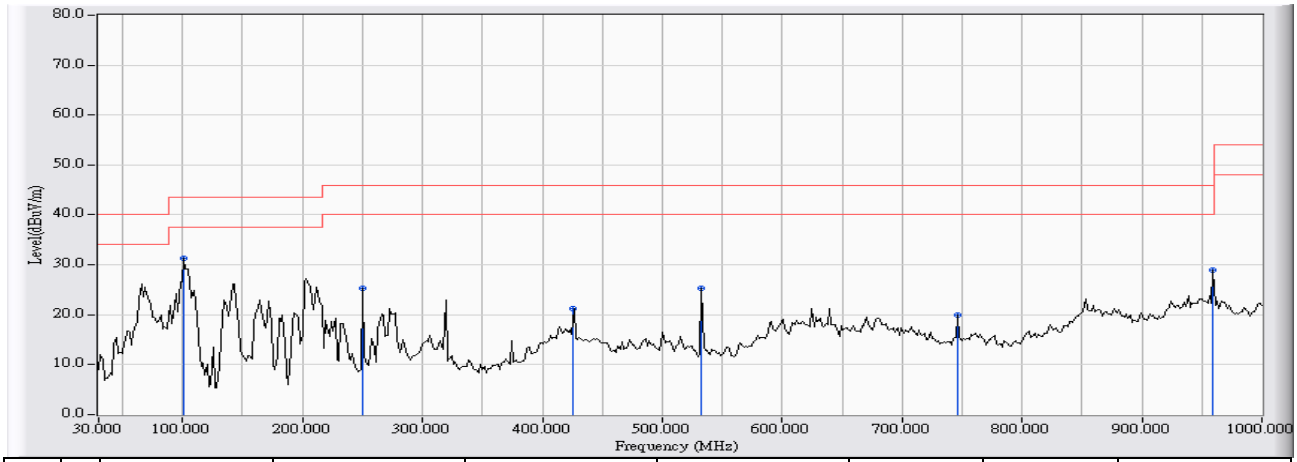



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 104.367 | -12.571 | 49.582 | 37.011 | -6.489 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 36.357 | 22.212 | -23.788 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 30.426 | 17.031 | -28.969 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 31.164 | 20.374 | -25.626 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -5.396 | 23.765 | 18.369 | -27.631 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | -5.055 | 25.459 | 20.404 | -25.596 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 09:48** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g** |

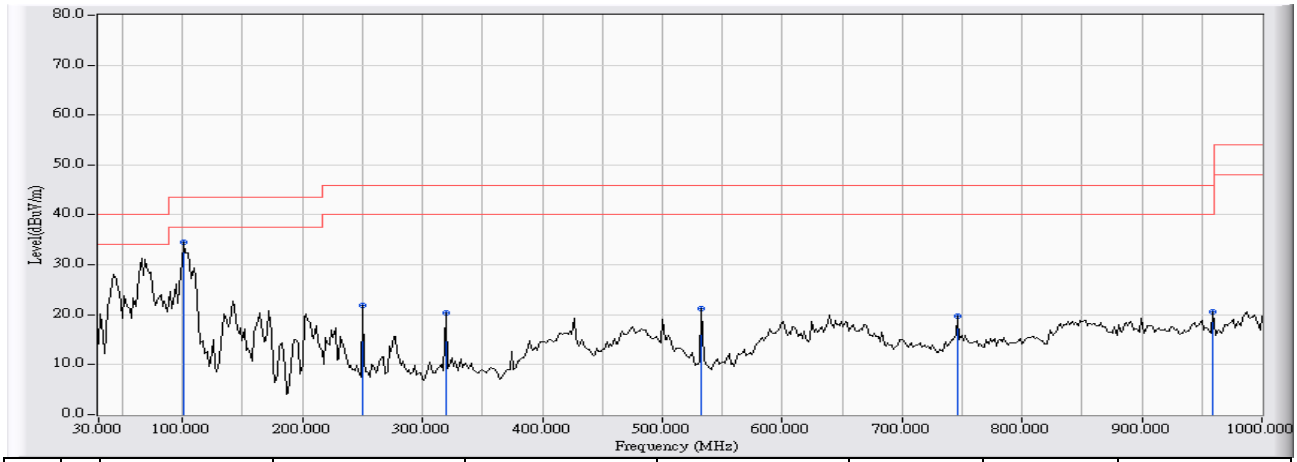



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 45.925 | 31.276 | -12.224 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -13.345 | 38.736 | 25.391 | -20.609 | 46.000 | QUASIPEAK |
| 3 | | 426.083 | -5.040 | 26.209 | 21.169 | -24.831 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -8.888 | 34.233 | 25.345 | -20.655 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 26.049 | 19.993 | -26.007 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 27.713 | 28.892 | -17.108 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 10:01** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g** |

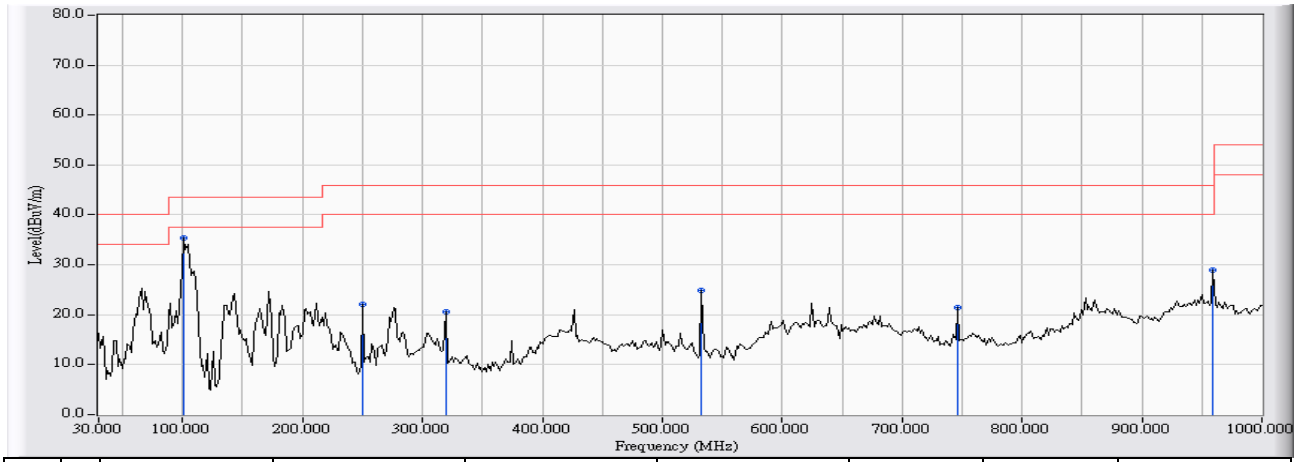



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -11.753 | 46.336 | 34.583 | -8.917 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 36.026 | 21.881 | -24.119 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 33.725 | 20.330 | -25.670 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 31.935 | 21.145 | -24.855 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -5.396 | 25.069 | 19.673 | -26.327 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | -5.055 | 25.541 | 20.486 | -25.514 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 11:47** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny-802.11g** |

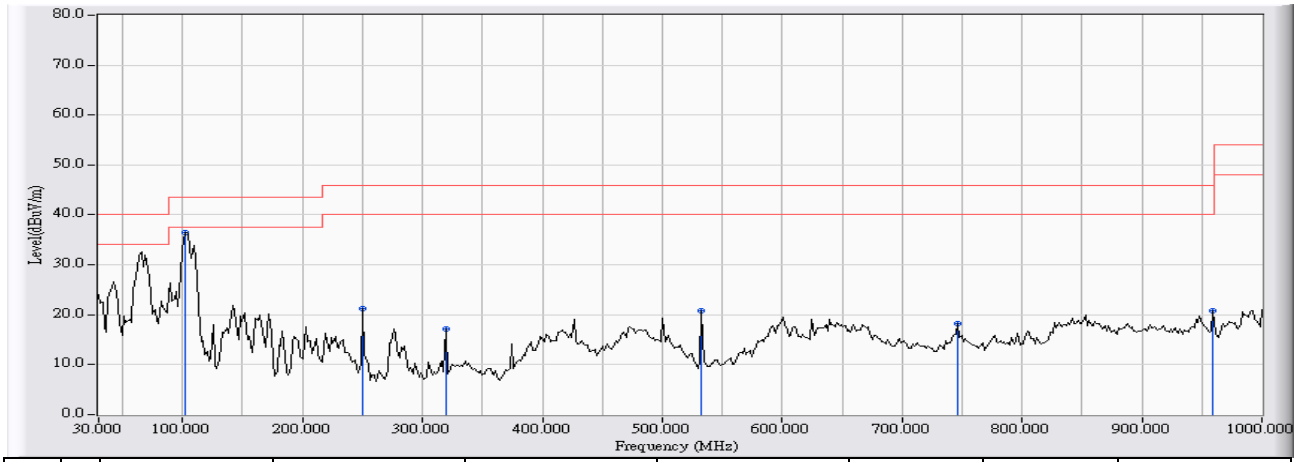



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 50.141 | 35.492 | -8.008 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -13.345 | 35.542 | 22.197 | -23.803 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -10.873 | 31.501 | 20.628 | -25.372 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -8.888 | 33.661 | 24.773 | -21.227 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 27.502 | 21.446 | -24.554 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 27.685 | 28.864 | -17.136 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 11:59** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny-802.11g** |

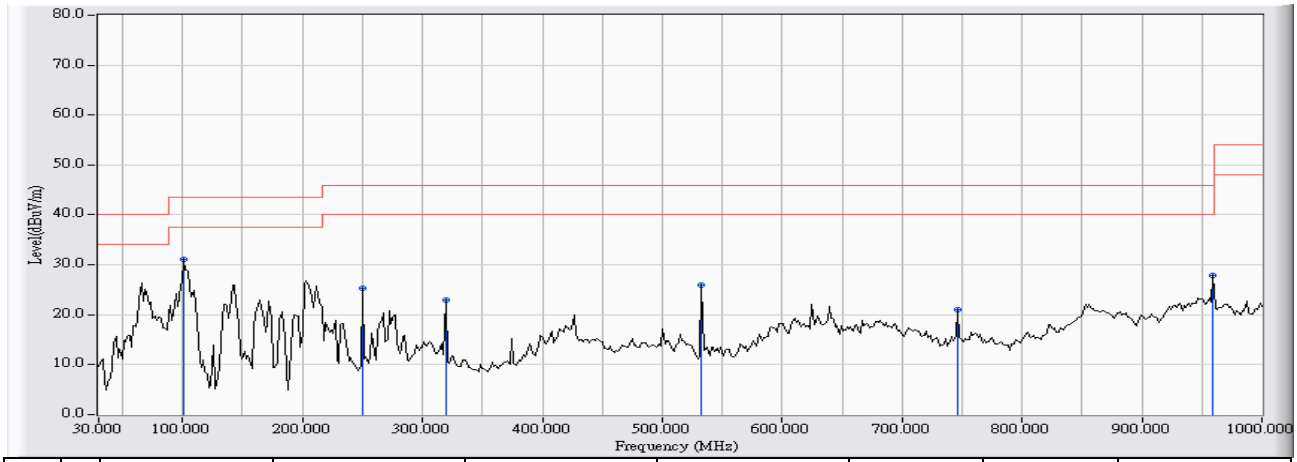



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 102.750 | -12.171 | 48.710 | 36.538 | -6.962 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 35.421 | 21.276 | -24.724 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 30.627 | 17.232 | -28.768 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 31.534 | 20.744 | -25.256 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -5.396 | 23.589 | 18.193 | -27.807 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | -5.055 | 25.880 | 20.825 | -25.175 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 10:24** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)** |

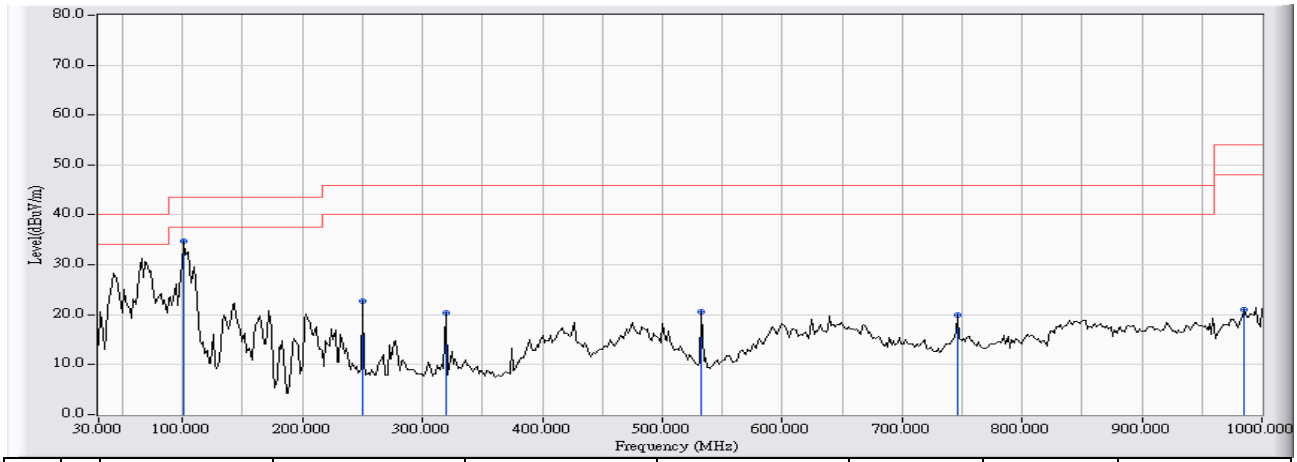



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 45.737 | 31.088 | -12.412 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -13.345 | 38.735 | 25.390 | -20.610 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -10.873 | 33.890 | 23.017 | -22.983 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -8.888 | 34.839 | 25.951 | -20.049 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 27.020 | 20.964 | -25.036 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 26.682 | 27.861 | -18.139 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 10:34** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)** |

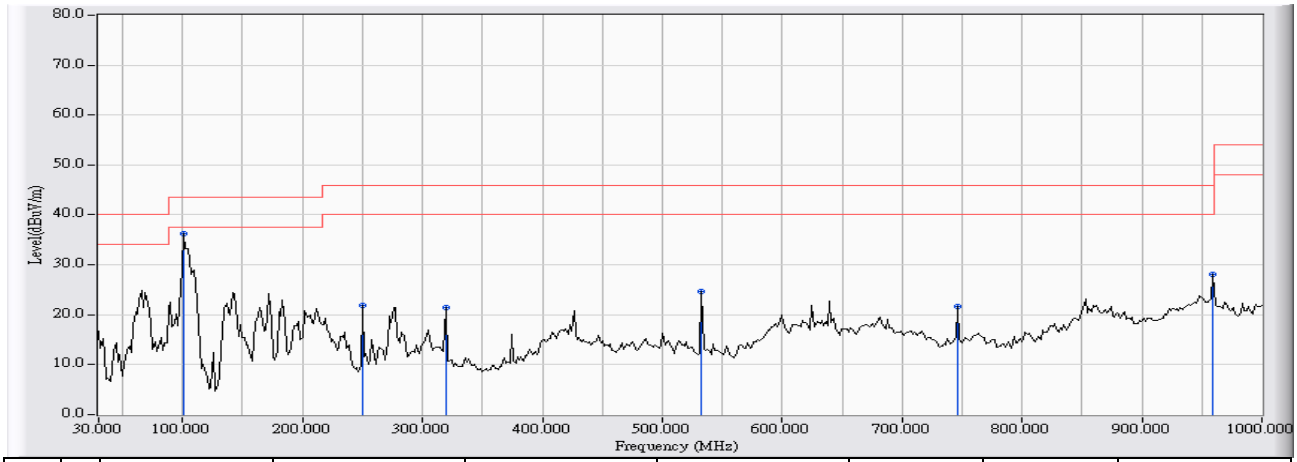



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -11.753 | 46.417 | 34.664 | -8.836 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 36.784 | 22.639 | -23.361 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 33.705 | 20.310 | -25.690 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 31.327 | 20.537 | -25.463 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -5.396 | 25.377 | 19.981 | -26.019 | 46.000 | QUASIPEAK |
| 6 | | 985.450 | -0.711 | 21.640 | 20.929 | -33.071 | 54.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 12:20** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny-802.11n(20M)** |

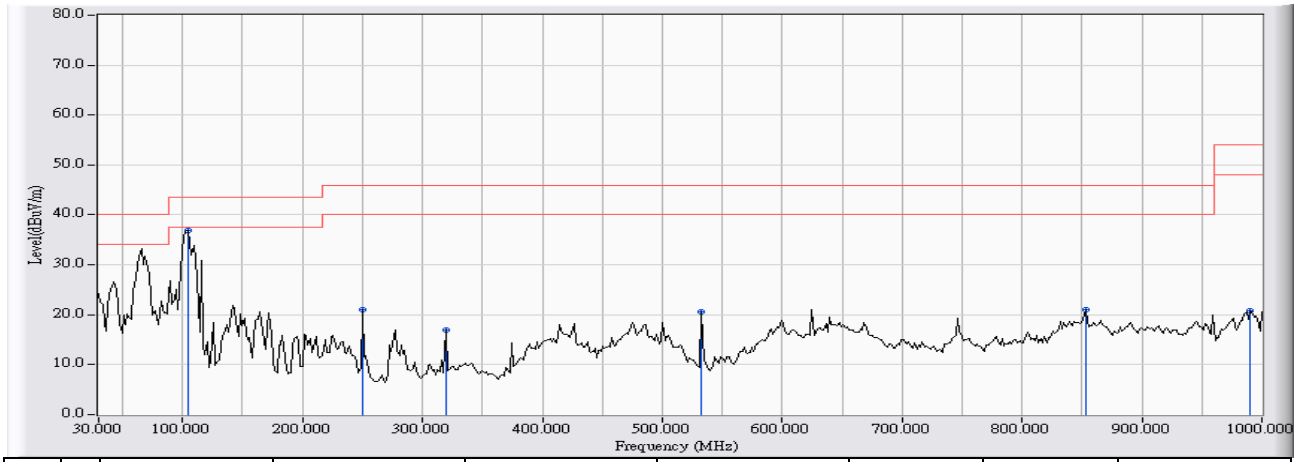



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 50.794 | 36.145 | -7.355 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -13.345 | 35.289 | 21.944 | -24.056 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -10.873 | 32.316 | 21.443 | -24.557 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -8.888 | 33.497 | 24.609 | -21.391 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 27.731 | 21.675 | -24.325 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 26.872 | 28.051 | -17.949 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 12:32** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny-802.11n(20M)** |

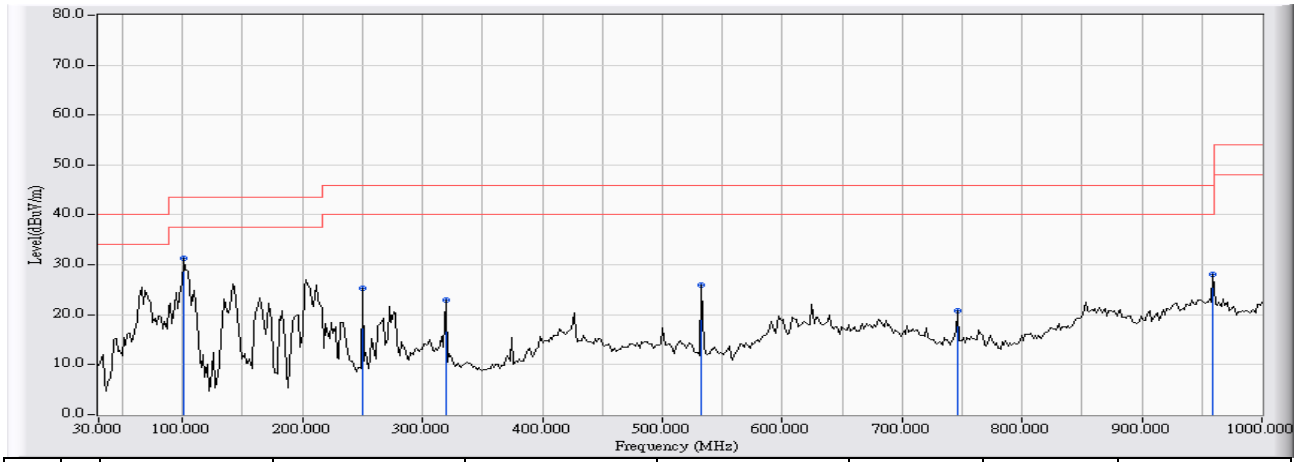



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 104.367 | -12.571 | 49.392 | 36.821 | -6.679 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 35.250 | 21.105 | -24.895 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 30.268 | 16.873 | -29.127 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 31.480 | 20.690 | -25.310 | 46.000 | QUASIPEAK |
| 5 | | 852.883 | -2.700 | 23.704 | 21.003 | -24.997 | 46.000 | QUASIPEAK |
| 6 | | 990.300 | -0.608 | 21.513 | 20.905 | -33.095 | 54.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 10:49** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)** |

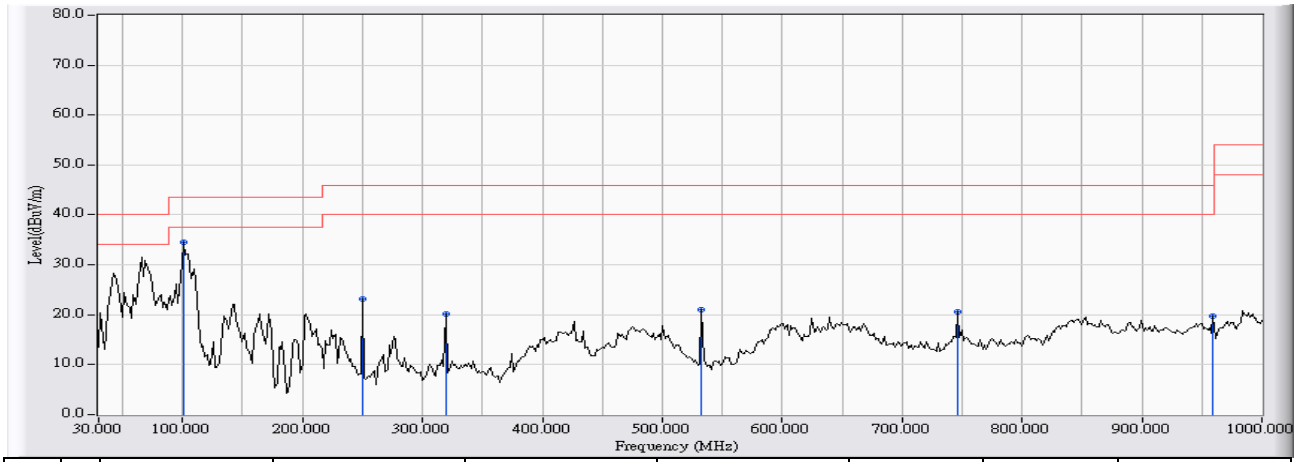



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 45.998 | 31.349 | -12.151 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -13.345 | 38.602 | 25.257 | -20.743 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -10.873 | 33.734 | 22.861 | -23.139 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -8.888 | 34.914 | 26.026 | -19.974 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 26.964 | 20.908 | -25.092 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 26.973 | 28.152 | -17.848 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 11:02** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)** |

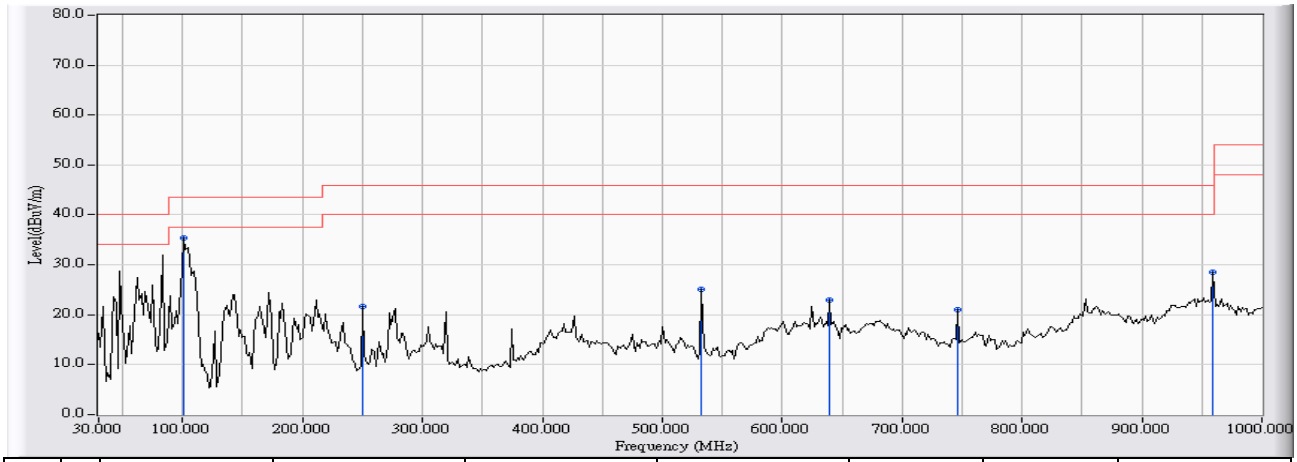



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -11.753 | 46.304 | 34.551 | -8.949 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 37.358 | 23.213 | -22.787 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 33.478 | 20.083 | -25.917 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 31.835 | 21.045 | -24.955 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -5.396 | 26.036 | 20.640 | -25.360 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | -5.055 | 24.742 | 19.687 | -26.313 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 12:48** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny-802.11n(40M)** |

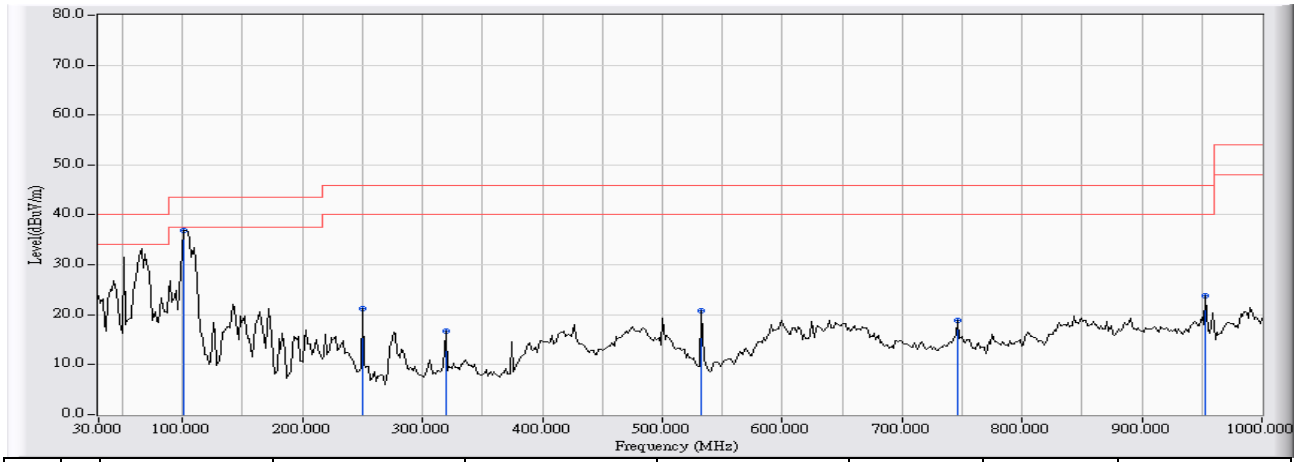



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -14.649 | 50.136 | 35.487 | -8.013 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -13.345 | 35.031 | 21.686 | -24.314 | 46.000 | QUASIPEAK |
| 3 | | 532.783 | -8.888 | 34.074 | 25.186 | -20.814 | 46.000 | QUASIPEAK |
| 4 | | 639.483 | -2.967 | 26.012 | 23.045 | -22.955 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -6.057 | 26.982 | 20.926 | -25.074 | 46.000 | QUASIPEAK |
| 6 | | 959.583 | 1.179 | 27.251 | 28.430 | -17.570 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/10 - 12:58** |
| **Limit : FCC_CLASS_B_03M_QP** | **Margin : 6** |
| **Probe : FCC_30-1G(2009) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 2: Transmit_Sunny-802.11n(40M)** |



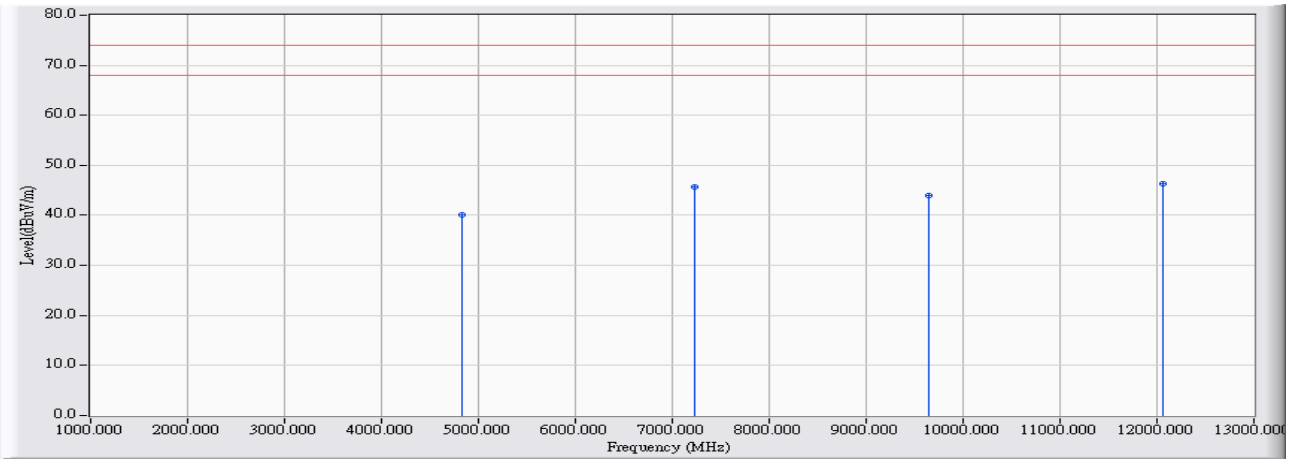

| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 101.133 | -11.753 | 48.735 | 36.982 | -6.518 | 43.500 | QUASIPEAK |
| 2 | | 249.867 | -14.145 | 35.297 | 21.152 | -24.848 | 46.000 | QUASIPEAK |
| 3 | | 319.383 | -13.395 | 30.121 | 16.726 | -29.274 | 46.000 | QUASIPEAK |
| 4 | | 532.783 | -10.789 | 31.560 | 20.770 | -25.230 | 46.000 | QUASIPEAK |
| 5 | | 746.183 | -5.396 | 24.298 | 18.902 | -27.098 | 46.000 | QUASIPEAK |
| 6 | | 953.117 | -3.167 | 26.907 | 23.740 | -22.260 | 46.000 | QUASIPEAK |

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

**Above 1GHz Spurious:**

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 09:30** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2412 MHz** |

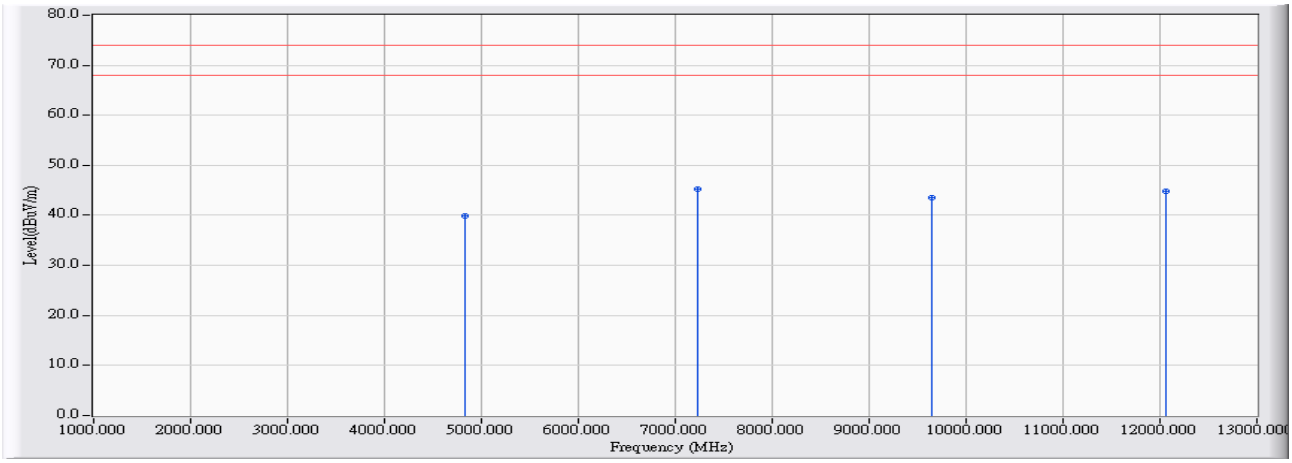



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4823.920 | -0.733 | 40.870 | 40.137 | -33.863 | 74.000 | 54.00 | PEAK |
| 2 | | 7236.170 | 6.347 | 39.280 | 45.627 | -28.373 | 74.000 | 54.00 | PEAK |
| 3 | | 9647.430 | 7.564 | 36.370 | 43.935 | -30.065 | 74.000 | 54.00 | PEAK |
| 4 | * | 12059.870 | 11.038 | 35.250 | 46.289 | -27.711 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 09:48** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2412 MHz** |

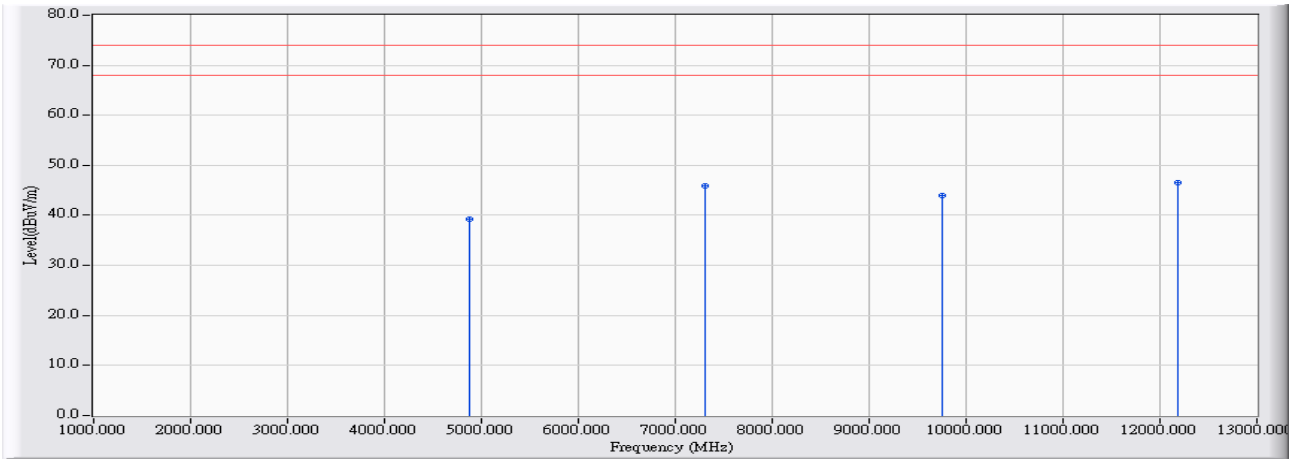



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4823.880 | -0.842 | 40.640 | 39.798 | -34.202 | 74.000 | 54.00 | PEAK |
| 2 | * | 7236.170 | 6.431 | 38.740 | 45.171 | -28.829 | 74.000 | 54.00 | PEAK |
| 3 | | 9647.520 | 7.784 | 35.730 | 43.513 | -30.487 | 74.000 | 54.00 | PEAK |
| 4 | | 12059.740 | 9.930 | 34.970 | 44.901 | -29.099 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 10:07** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2437 MHz** |

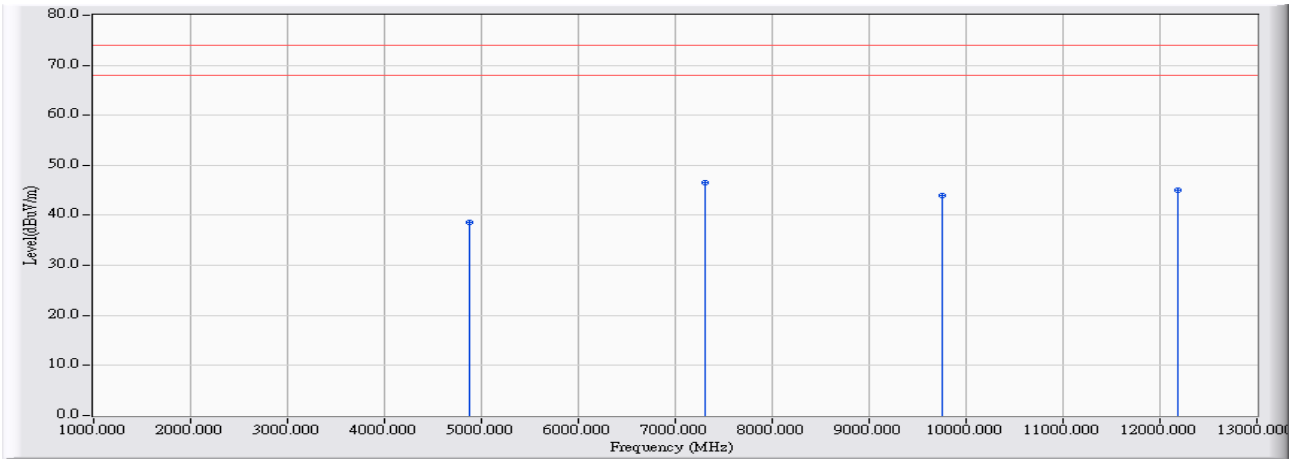



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4873.920 | -1.002 | 40.240 | 39.238 | -34.762 | 74.000 | 54.00 | PEAK |
| 2 | | 7308.670 | 6.945 | 38.850 | 45.794 | -28.206 | 74.000 | 54.00 | PEAK |
| 3 | | 9748.330 | 8.006 | 35.940 | 43.946 | -30.054 | 74.000 | 54.00 | PEAK |
| 4 | * | 12187.500 | 10.579 | 36.020 | 46.600 | -27.400 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 10:31** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2437 MHz** |

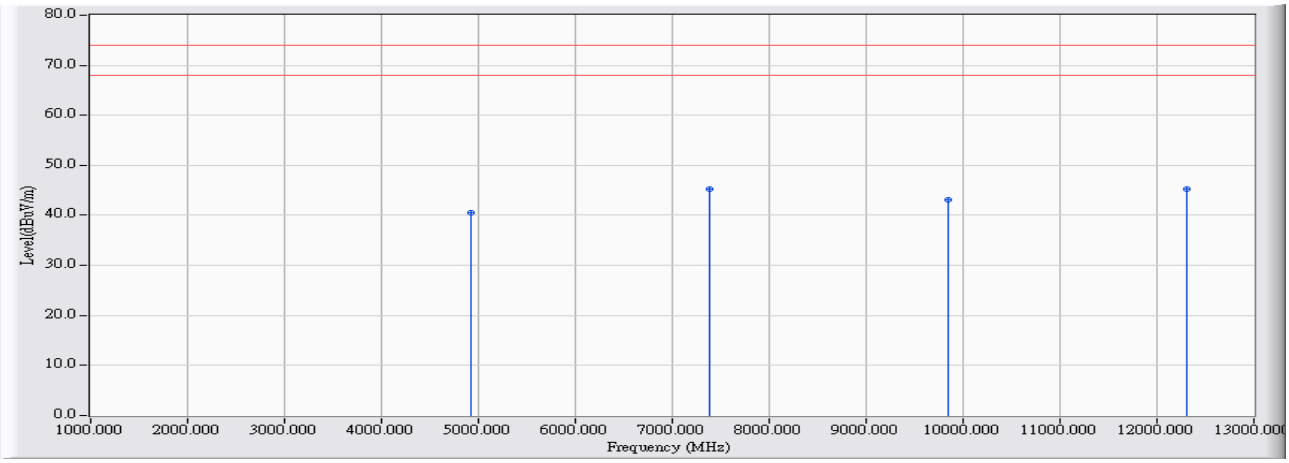



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4873.860 | -1.041 | 39.550 | 38.509 | -35.491 | 74.000 | 54.00 | PEAK |
| 2 | * | 7308.220 | 6.729 | 39.870 | 46.599 | -27.401 | 74.000 | 54.00 | PEAK |
| 3 | | 9748.240 | 8.163 | 35.880 | 44.044 | -29.956 | 74.000 | 54.00 | PEAK |
| 4 | | 12187.280 | 9.499 | 35.640 | 45.139 | -28.861 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 10:53** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2462 MHz** |

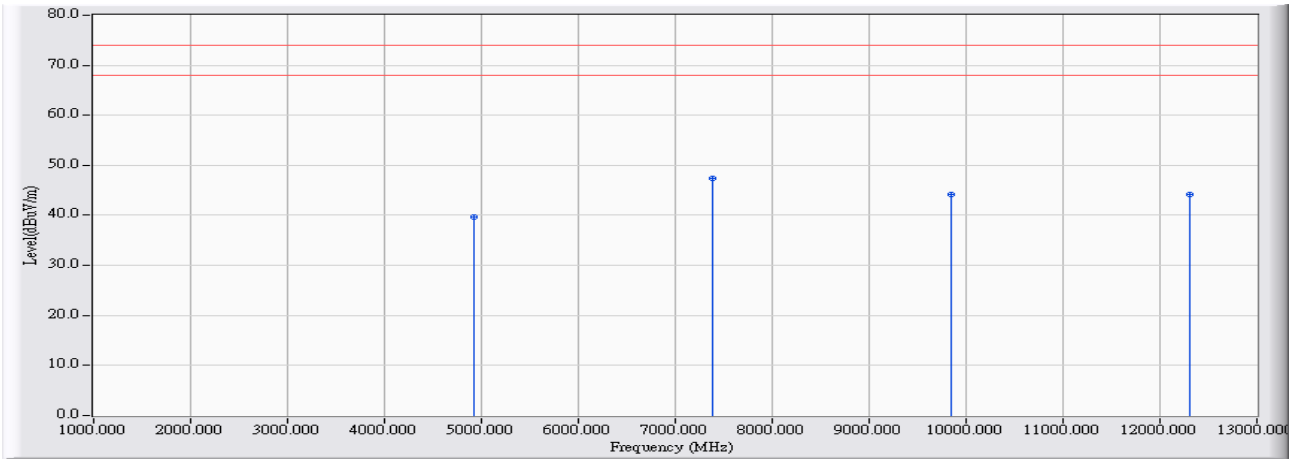



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4924.330 | -0.543 | 41.040 | 40.497 | -33.503 | 74.000 | 54.00 | PEAK |
| 2 | * | 7387.670 | 7.688 | 37.590 | 45.278 | -28.722 | 74.000 | 54.00 | PEAK |
| 3 | | 9847.770 | 8.244 | 34.880 | 43.124 | -30.876 | 74.000 | 54.00 | PEAK |
| 4 | | 12310.200 | 9.272 | 35.890 | 45.162 | -28.838 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 11:18** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2462 MHz** |

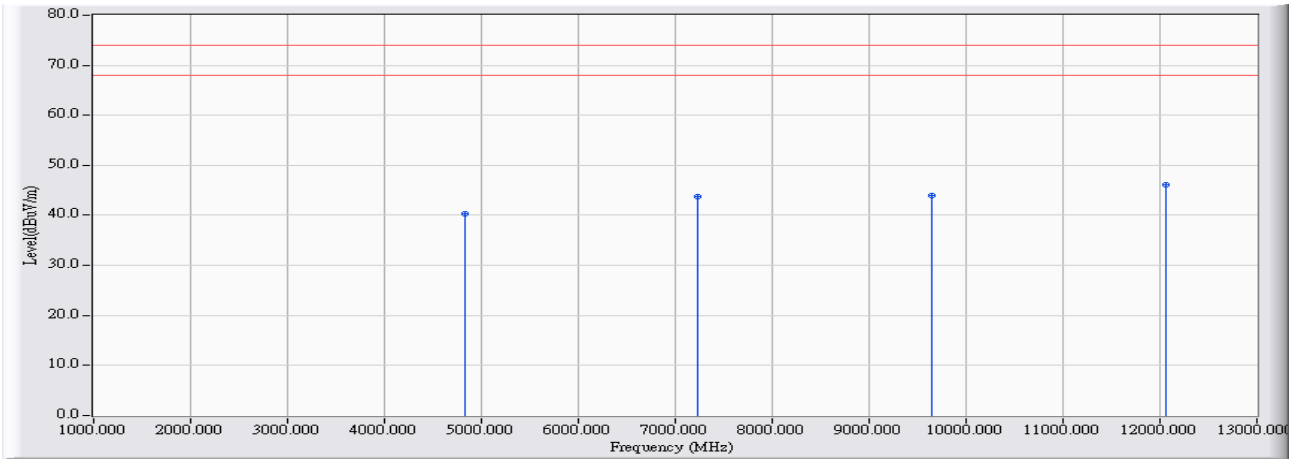



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4924.280 | -0.531 | 40.130 | 39.599 | -34.401 | 74.000 | 54.00 | PEAK |
| 2 | * | 7387.540 | 7.158 | 40.240 | 47.398 | -26.602 | 74.000 | 54.00 | PEAK |
| 3 | | 9847.810 | 8.353 | 35.800 | 44.152 | -29.848 | 74.000 | 54.00 | PEAK |
| 4 | | 12310.100 | 8.193 | 35.990 | 44.182 | -29.818 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 11:41** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2412 MHz** |

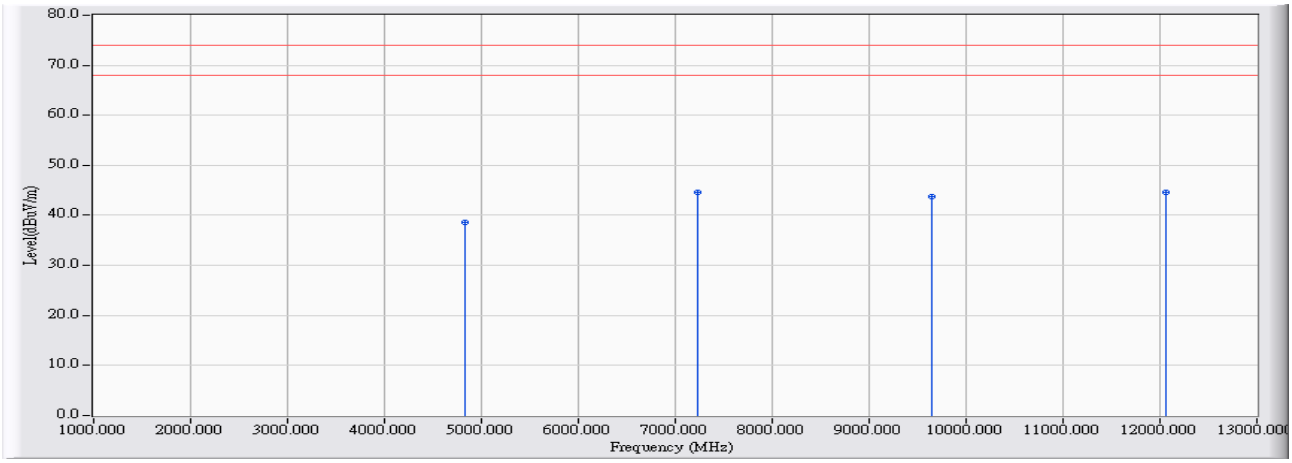



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4823.870 | -0.733 | 41.070 | 40.337 | -33.663 | 74.000 | 54.00 | PEAK |
| 2 | | 7236.220 | 6.347 | 37.410 | 43.757 | -30.243 | 74.000 | 54.00 | PEAK |
| 3 | | 9646.980 | 7.563 | 36.460 | 44.023 | -29.977 | 74.000 | 54.00 | PEAK |
| 4 | * | 12059.730 | 11.037 | 35.090 | 46.128 | -27.872 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 12:01** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2412 MHz** |

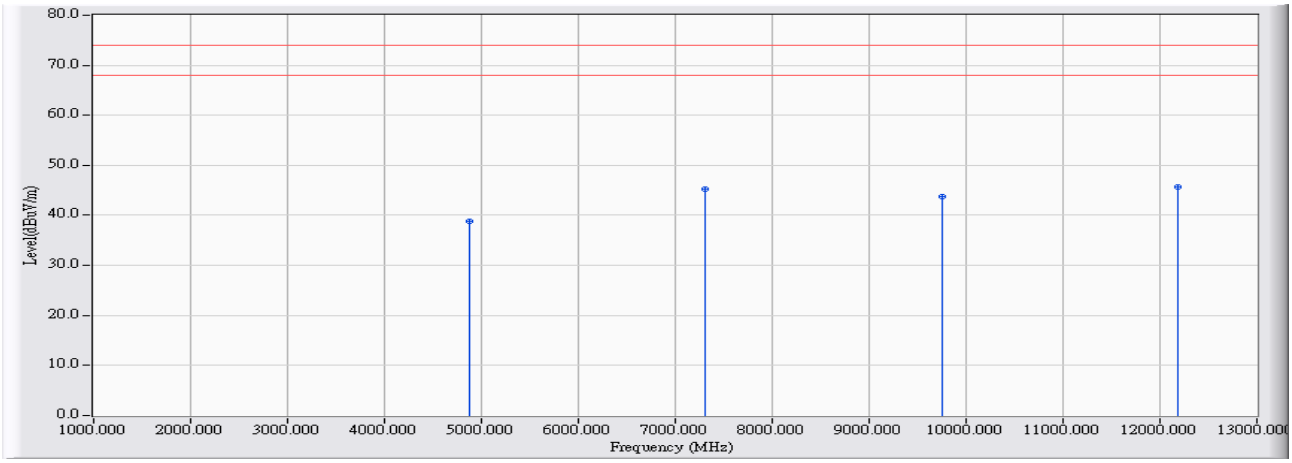



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4823.860 | -0.842 | 39.400 | 38.558 | -35.442 | 74.000 | 54.00 | PEAK |
| 2 | * | 7236.280 | 6.431 | 38.270 | 44.702 | -29.298 | 74.000 | 54.00 | PEAK |
| 3 | | 9647.360 | 7.783 | 36.040 | 43.823 | -30.177 | 74.000 | 54.00 | PEAK |
| 4 | | 12059.620 | 9.930 | 34.710 | 44.640 | -29.360 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 13:22** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2437 MHz** |

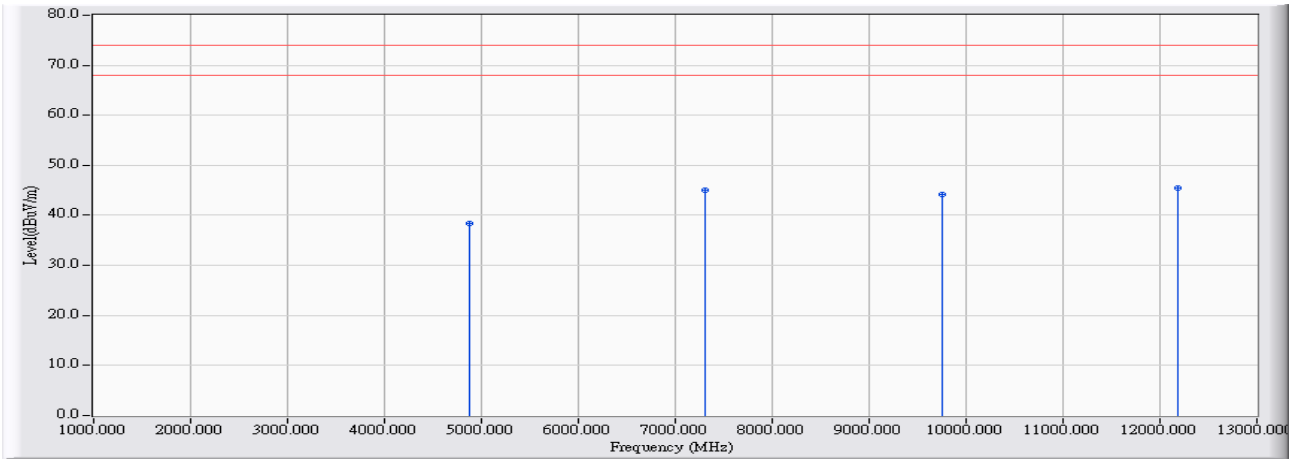



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4878.250 | -0.995 | 39.770 | 38.775 | -35.225 | 74.000 | 54.00 | PEAK |
| 2 | | 7312.080 | 7.008 | 38.170 | 45.178 | -28.822 | 74.000 | 54.00 | PEAK |
| 3 | | 9747.670 | 8.009 | 35.770 | 43.779 | -30.221 | 74.000 | 54.00 | PEAK |
| 4 | * | 12185.170 | 10.602 | 35.020 | 45.622 | -28.378 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 13:41** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2437 MHz** |

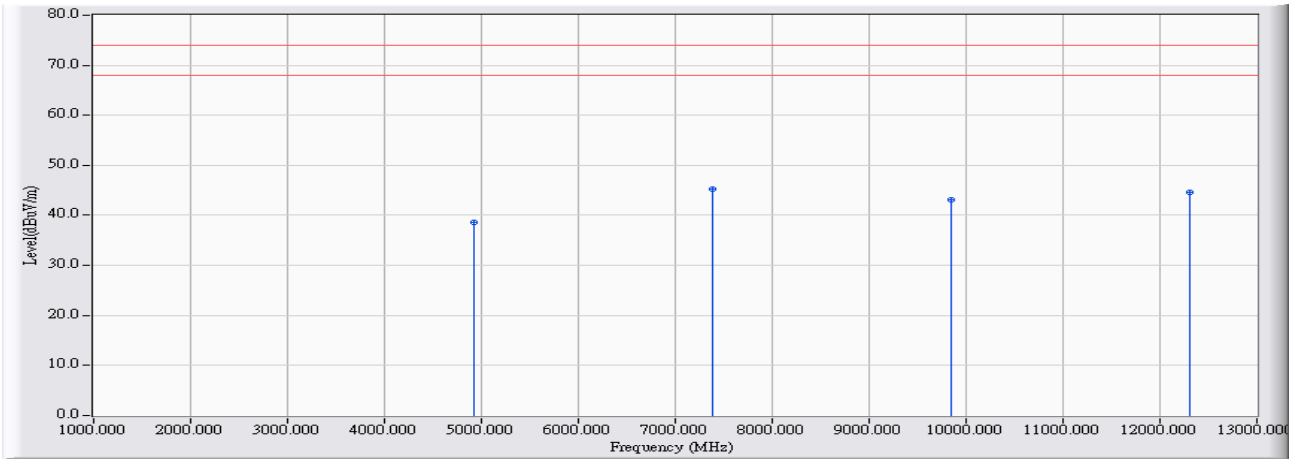



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4878.160 | -1.030 | 39.440 | 38.410 | -35.590 | 74.000 | 54.00 | PEAK |
| 2 | | 7312.240 | 6.787 | 38.180 | 44.968 | -29.032 | 74.000 | 54.00 | PEAK |
| 3 | | 9747.450 | 8.168 | 35.950 | 44.118 | -29.882 | 74.000 | 54.00 | PEAK |
| 4 | * | 12185.100 | 9.517 | 35.850 | 45.367 | -28.633 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 13:59** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2462 MHz** |

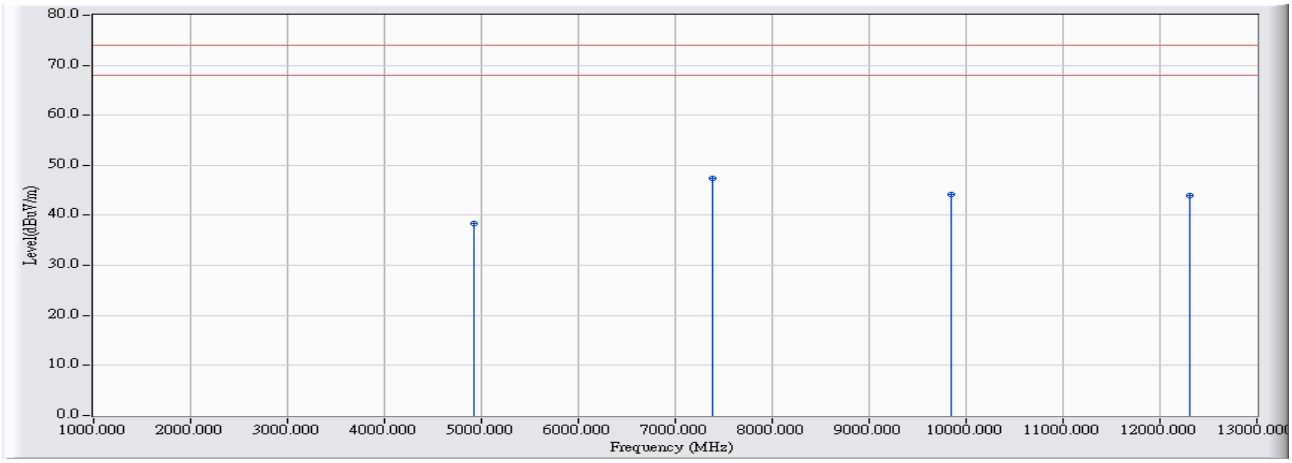



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4924.170 | -0.545 | 39.240 | 38.695 | -35.305 | 74.000 | 54.00 | PEAK |
| 2 | * | 7389.670 | 7.711 | 37.620 | 45.330 | -28.670 | 74.000 | 54.00 | PEAK |
| 3 | | 9846.420 | 8.255 | 34.780 | 43.035 | -30.965 | 74.000 | 54.00 | PEAK |
| 4 | | 12309.580 | 9.275 | 35.350 | 44.625 | -29.375 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 14:18** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2462 MHz** |

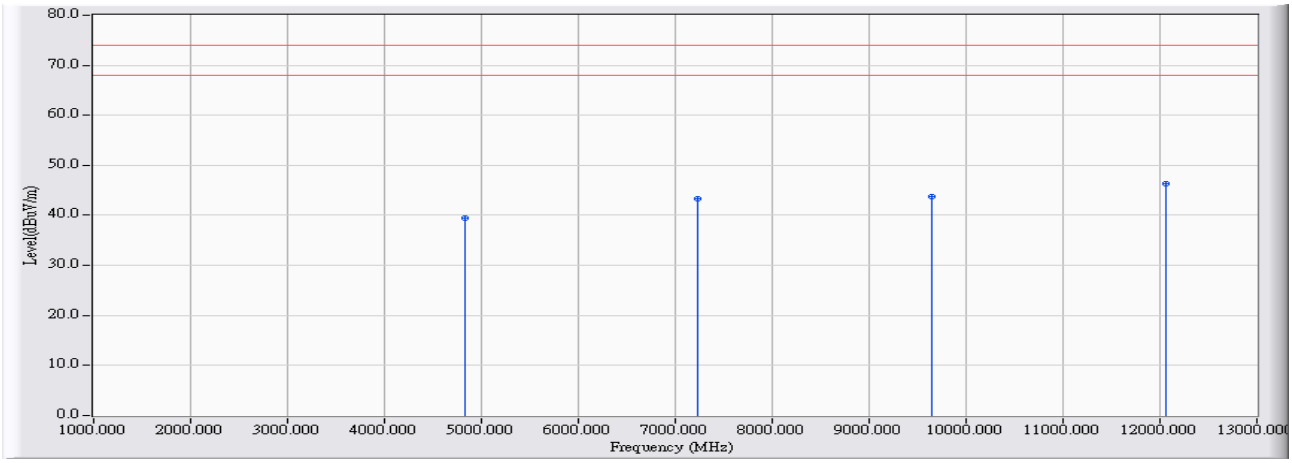



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4924.310 | -0.531 | 38.820 | 38.289 | -35.711 | 74.000 | 54.00 | PEAK |
| 2 | * | 7389.580 | 7.172 | 40.190 | 47.363 | -26.637 | 74.000 | 54.00 | PEAK |
| 3 | | 9846.360 | 8.365 | 35.830 | 44.194 | -29.806 | 74.000 | 54.00 | PEAK |
| 4 | | 12309.470 | 8.194 | 35.690 | 43.885 | -30.115 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 14:37** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)-2412 MHz** |

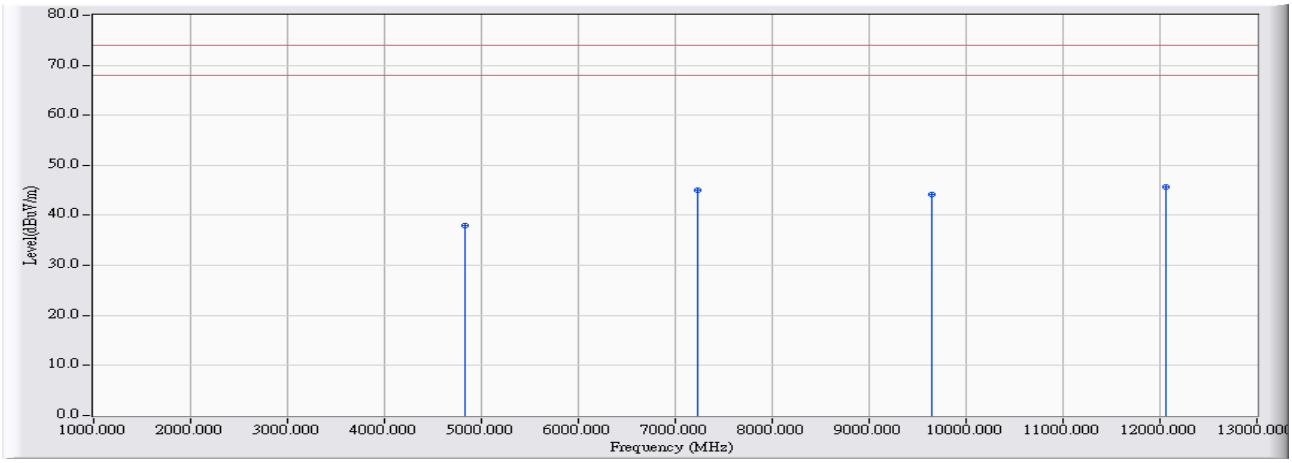



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4824.670 | -0.732 | 40.240 | 39.508 | -34.492 | 74.000 | 54.00 | PEAK |
| 2 | | 7235.330 | 6.339 | 36.950 | 43.290 | -30.710 | 74.000 | 54.00 | PEAK |
| 3 | | 9652.000 | 7.584 | 36.140 | 43.724 | -30.276 | 74.000 | 54.00 | PEAK |
| 4 | * | 12060.830 | 11.044 | 35.340 | 46.384 | -27.616 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 14:57** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)-2412 MHz** |

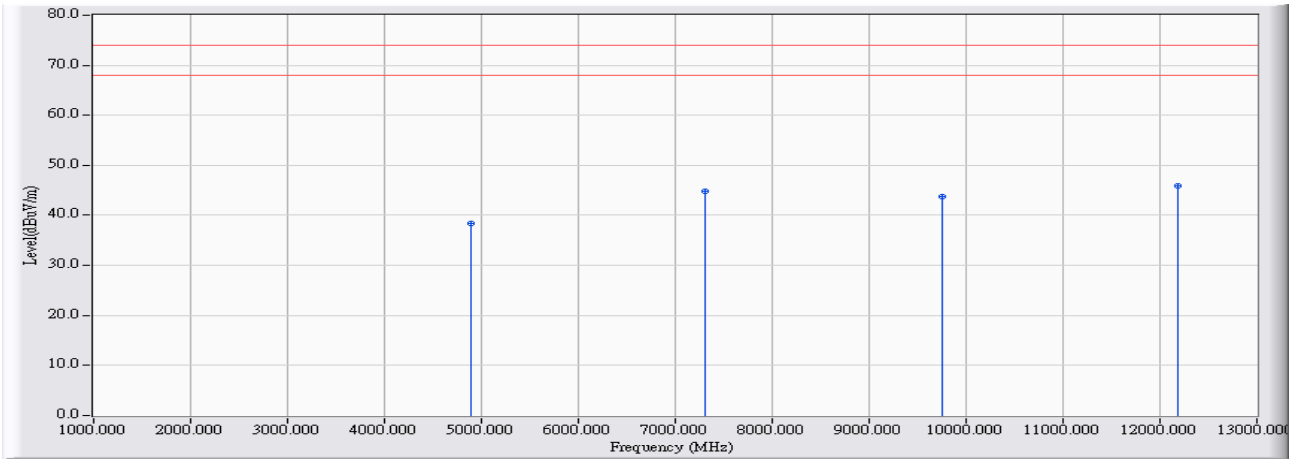



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4824.520 | -0.841 | 38.850 | 38.009 | -35.991 | 74.000 | 54.00 | PEAK |
| 2 | | 7235.480 | 6.429 | 38.600 | 45.029 | -28.971 | 74.000 | 54.00 | PEAK |
| 3 | | 9650.580 | 7.793 | 36.290 | 44.083 | -29.917 | 74.000 | 54.00 | PEAK |
| 4 | * | 12060.230 | 9.933 | 35.710 | 45.643 | -28.357 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 15:16** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)-2437 MHz** |

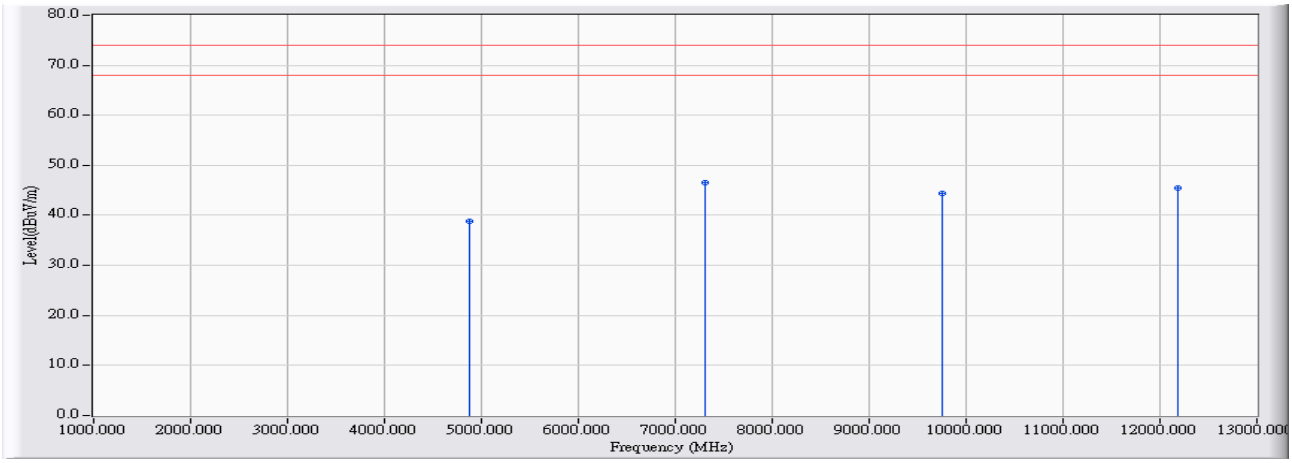



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4887.080 | -0.934 | 39.430 | 38.496 | -35.504 | 74.000 | 54.00 | PEAK |
| 2 | | 7310.830 | 6.985 | 37.930 | 44.915 | -29.085 | 74.000 | 54.00 | PEAK |
| 3 | | 9749.420 | 8.001 | 35.730 | 43.730 | -30.270 | 74.000 | 54.00 | PEAK |
| 4 | * | 12186.580 | 10.592 | 35.400 | 45.993 | -28.007 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 15:35** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)-2437 MHz** |

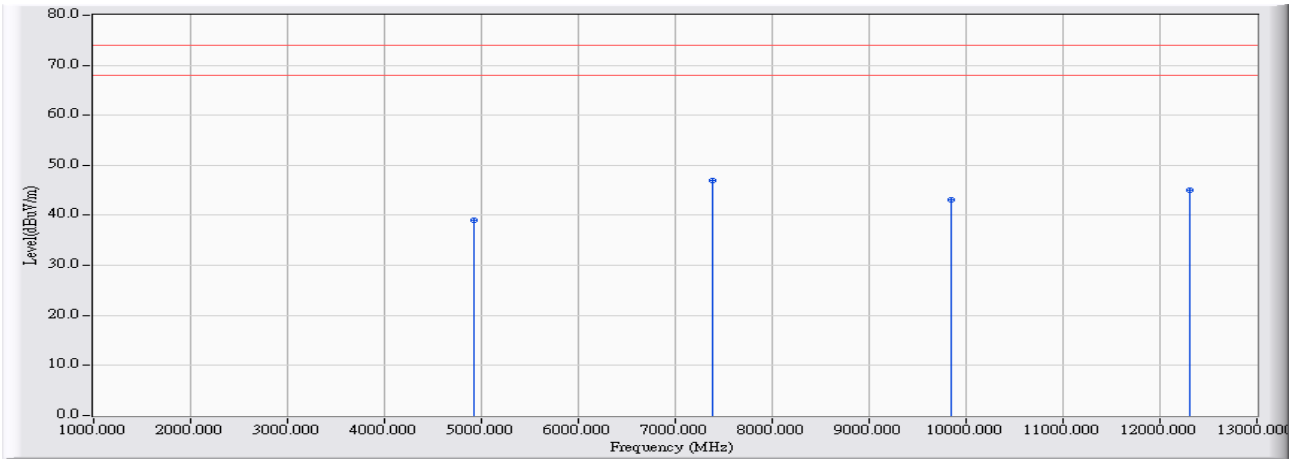



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4876.850 | -1.040 | 39.880 | 38.841 | -35.159 | 74.000 | 54.00 | PEAK |
| 2 | * | 7310.640 | 6.765 | 39.690 | 46.454 | -27.546 | 74.000 | 54.00 | PEAK |
| 3 | | 9749.260 | 8.158 | 36.310 | 44.468 | -29.532 | 74.000 | 54.00 | PEAK |
| 4 | | 12186.520 | 9.510 | 35.980 | 45.490 | -28.510 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 15:54** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)-2462 MHz** |

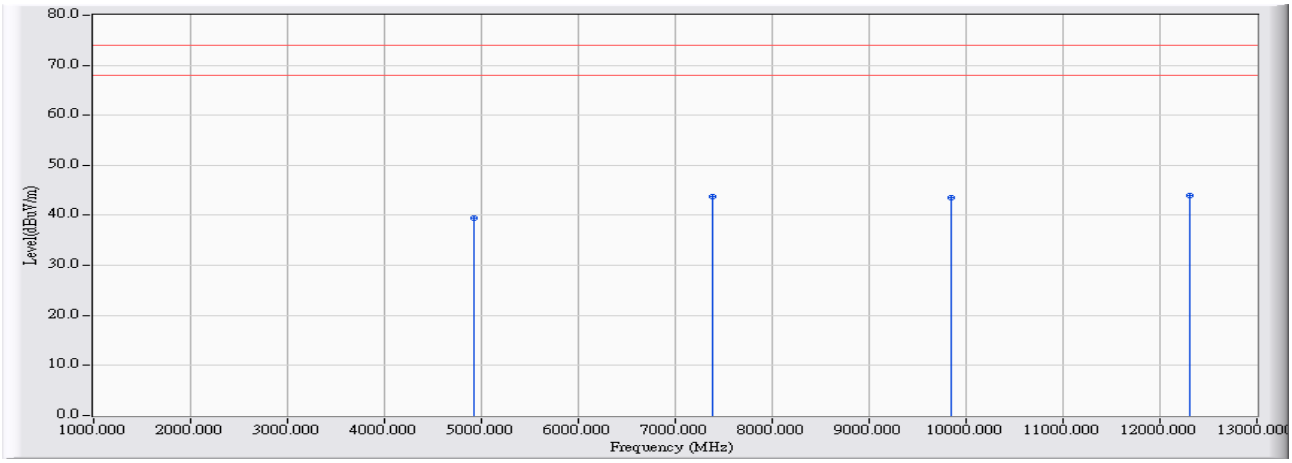



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4925.170 | -0.536 | 39.660 | 39.124 | -34.876 | 74.000 | 54.00 | PEAK |
| 2 | * | 7384.830 | 7.658 | 39.350 | 47.007 | -26.993 | 74.000 | 54.00 | PEAK |
| 3 | | 9849.580 | 8.230 | 34.960 | 43.190 | -30.810 | 74.000 | 54.00 | PEAK |
| 4 | | 12310.420 | 9.271 | 35.870 | 45.142 | -28.858 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 16:13** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M)-2462 MHz** |

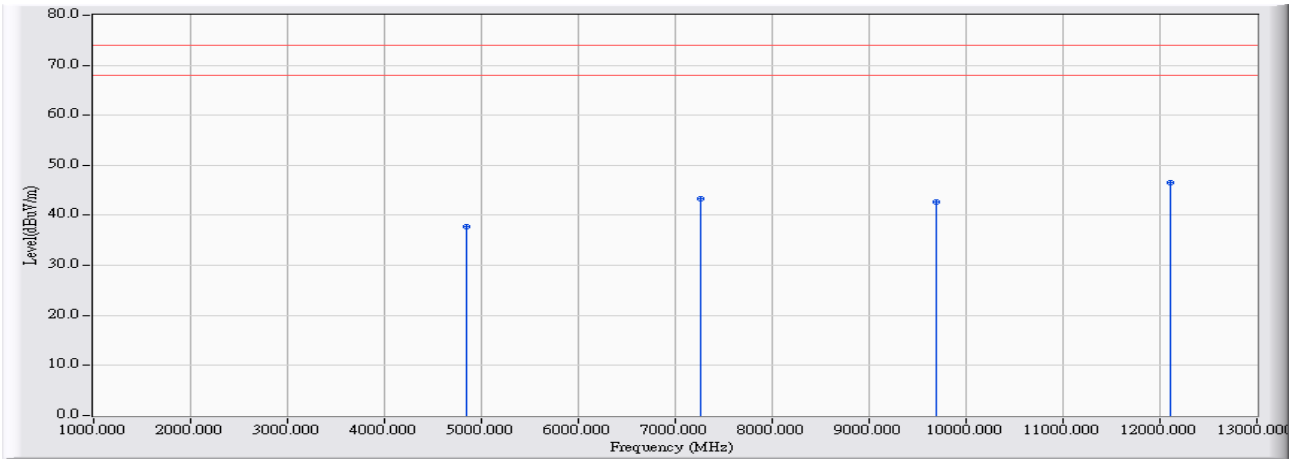



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4925.340 | -0.520 | 40.020 | 39.500 | -34.500 | 74.000 | 54.00 | PEAK |
| 2 | | 7384.650 | 7.139 | 36.710 | 43.848 | -30.152 | 74.000 | 54.00 | PEAK |
| 3 | | 9849.270 | 8.340 | 35.190 | 43.529 | -30.471 | 74.000 | 54.00 | PEAK |
| 4 | * | 12310.280 | 8.192 | 35.790 | 43.982 | -30.018 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 16:32** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)-2422 MHz** |

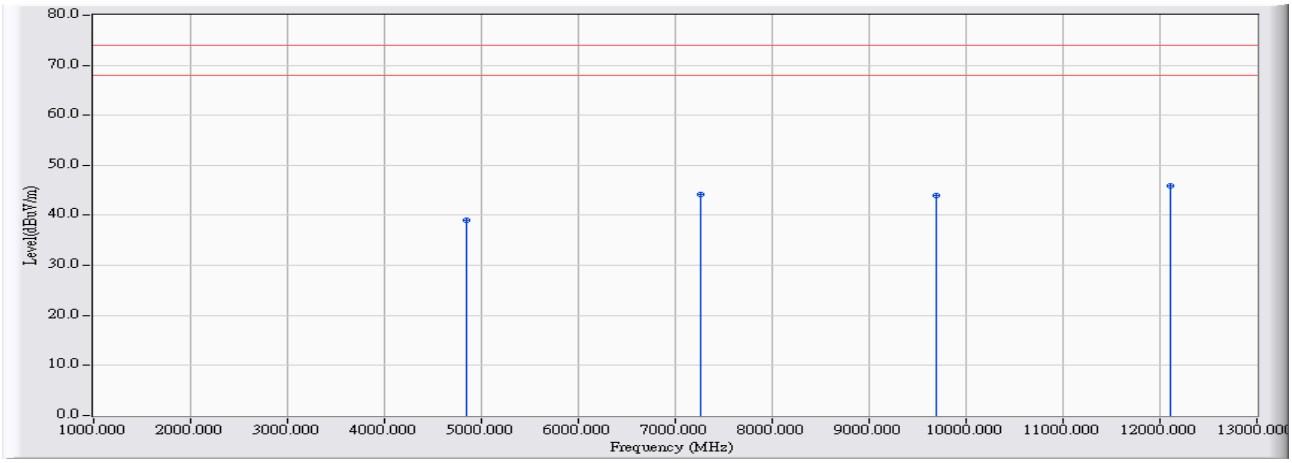



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4842.610 | -0.813 | 38.470 | 37.658 | -36.342 | 74.000 | 54.00 | PEAK |
| 2 | | 7263.860 | 6.505 | 36.800 | 43.306 | -30.694 | 74.000 | 54.00 | PEAK |
| 3 | | 9687.750 | 7.713 | 35.050 | 42.763 | -31.237 | 74.000 | 54.00 | PEAK |
| 4 | * | 12109.250 | 10.839 | 35.790 | 46.629 | -27.371 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 16:54** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)-2422 MHz** |

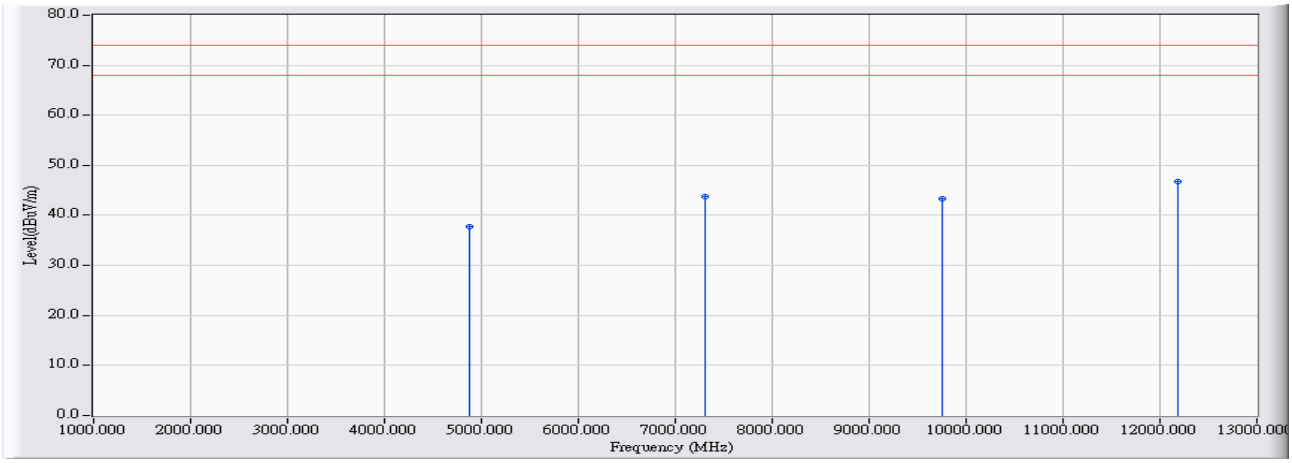



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4841.420 | -0.883 | 39.950 | 39.067 | -34.933 | 74.000 | 54.00 | PEAK |
| 2 | | 7263.920 | 6.478 | 37.700 | 44.178 | -29.822 | 74.000 | 54.00 | PEAK |
| 3 | | 9687.920 | 7.916 | 36.030 | 43.945 | -30.055 | 74.000 | 54.00 | PEAK |
| 4 | * | 12109.750 | 9.728 | 36.240 | 45.969 | -28.031 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 16:17** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)-2437 MHz** |

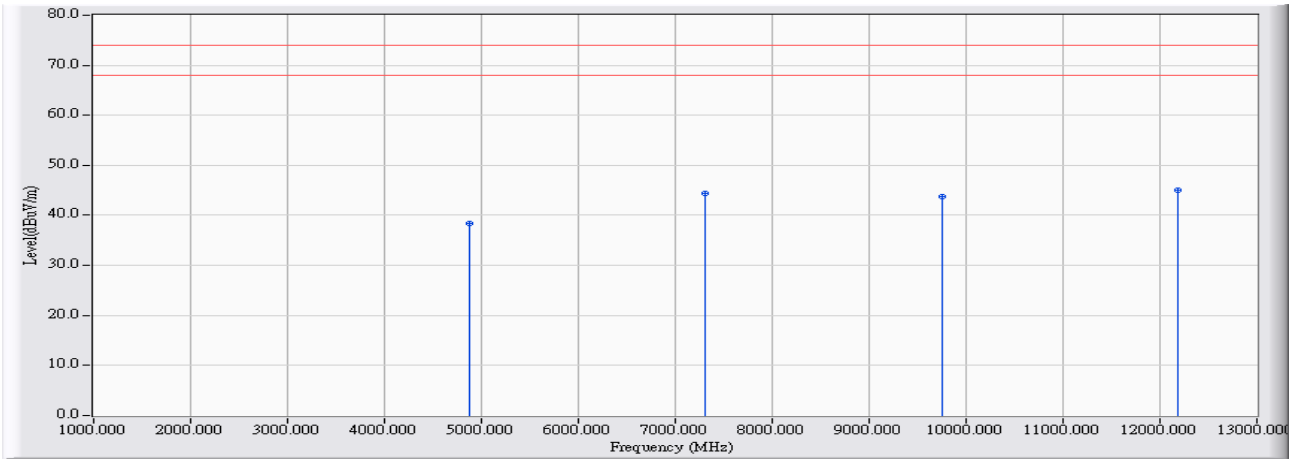



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4877.420 | -1.001 | 38.810 | 37.810 | -36.190 | 74.000 | 54.00 | PEAK |
| 2 | | 7312.290 | 7.012 | 36.760 | 43.772 | -30.228 | 74.000 | 54.00 | PEAK |
| 3 | | 9747.670 | 8.009 | 35.390 | 43.399 | -30.601 | 74.000 | 54.00 | PEAK |
| 4 | * | 12185.970 | 10.601 | 36.050 | 46.651 | -27.349 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 16:40** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)-2437 MHz** |

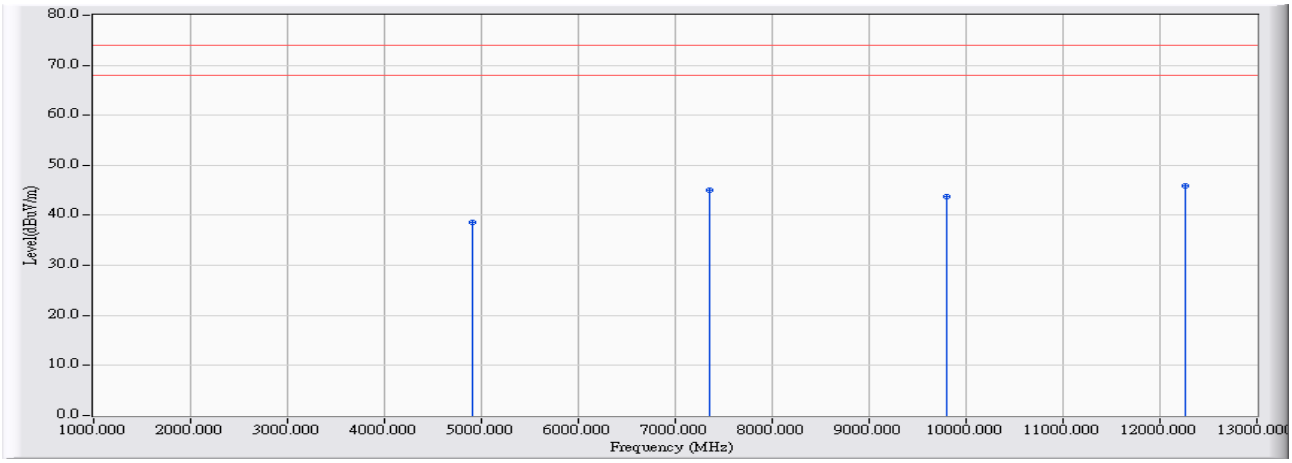



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4874.580 | -1.043 | 39.529 | 38.486 | -35.514 | 74.000 | 54.00 | PEAK |
| 2 | | 7312.500 | 6.791 | 37.660 | 44.451 | -29.549 | 74.000 | 54.00 | PEAK |
| 3 | | 9747.830 | 8.167 | 35.674 | 43.840 | -30.160 | 74.000 | 54.00 | PEAK |
| 4 | * | 12186.830 | 9.505 | 35.582 | 45.087 | -28.913 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 17:01** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)-2452 MHz** |

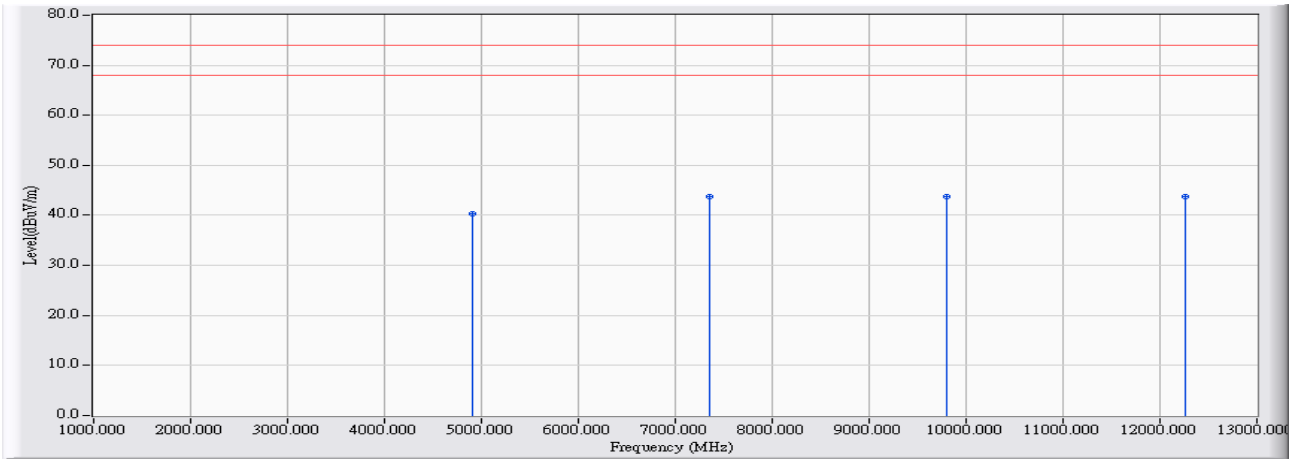



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4905.250 | -0.732 | 39.280 | 38.548 | -35.452 | 74.000 | 54.00 | PEAK |
| 2 | | 7357.000 | 7.502 | 37.530 | 45.032 | -28.968 | 74.000 | 54.00 | PEAK |
| 3 | | 9806.080 | 7.892 | 35.780 | 43.672 | -30.328 | 74.000 | 54.00 | PEAK |
| 4 | * | 12260.080 | 9.604 | 36.370 | 45.974 | -28.026 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 17:21** |
| **Limit : FCC_SpartC_15.247_H_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M)-2452 MHz** |




| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Average Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | 4905.250 | -0.749 | 40.970 | 40.221 | -33.779 | 74.000 | 54.00 | PEAK |
| 2 | | 7357.220 | 7.088 | 36.650 | 43.737 | -30.263 | 74.000 | 54.00 | PEAK |
| 3 | | 9806.210 | 8.020 | 35.790 | 43.809 | -30.191 | 74.000 | 54.00 | PEAK |
| 4 | * | 12260.470 | 8.516 | 35.340 | 43.857 | -30.143 | 74.000 | 54.00 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 13GHz were not included is because their levels are too low.

# 4. Radiated Emission Band Edge

## 4.1. Test Equipment

The following test equipments are used during the test:

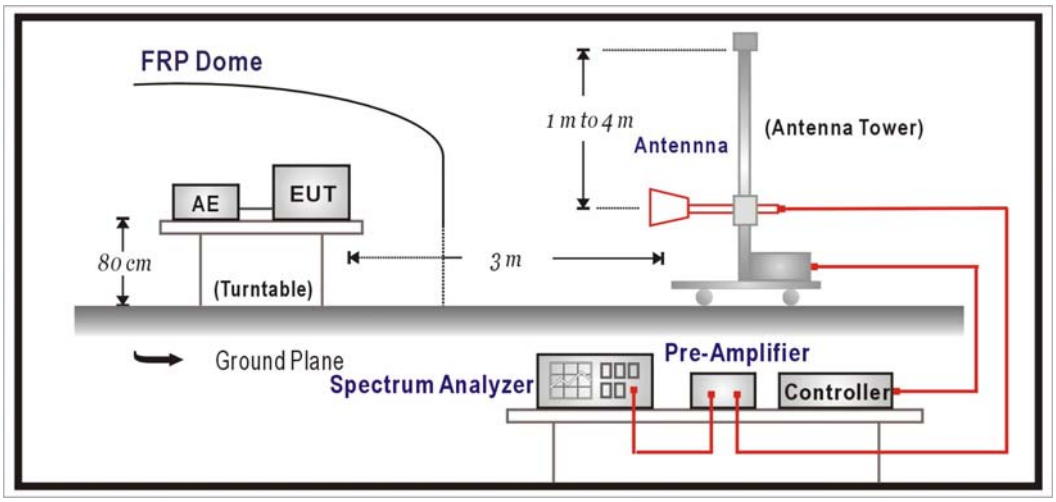
Radiated Emission Band Edge / CB1

| Instrument | Manufacturer | Model No. | Serial No | Next Cal. Date |
|---|---|---|---|---|
| Horn Antenna | Schwarzback | BBHA 9120D | 743 | 2011/03/14 |
| Spectrum Analyzer | Agilent | E4440A | MY46187335 | 2011/01/14 |
| Coaxial Cable | Huber+Suhner AG | Sucoflex 102 | 25623/2 | 2011/04/07 |

Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

## 4.2. Test Setup

RF Radiated Measurement:



## 4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

## 4.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated measurement.

## 4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2009

## 4.6. Uncertainty

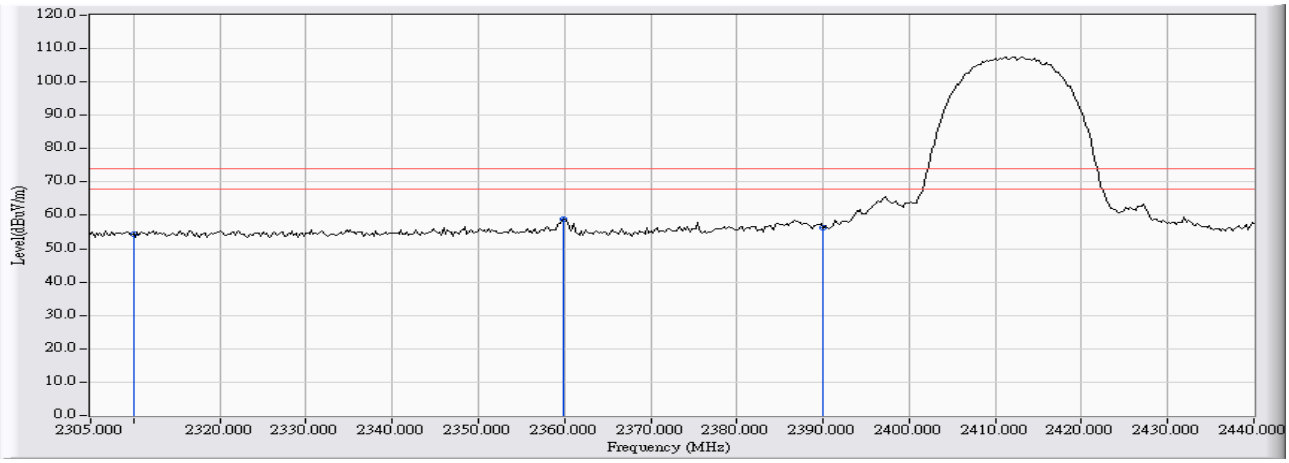
The measurement uncertainty

± 3.9 dB above 1GHz

## 4.7. Test Result

**Radiated is defined as**

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 18:24** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2412MHz** |

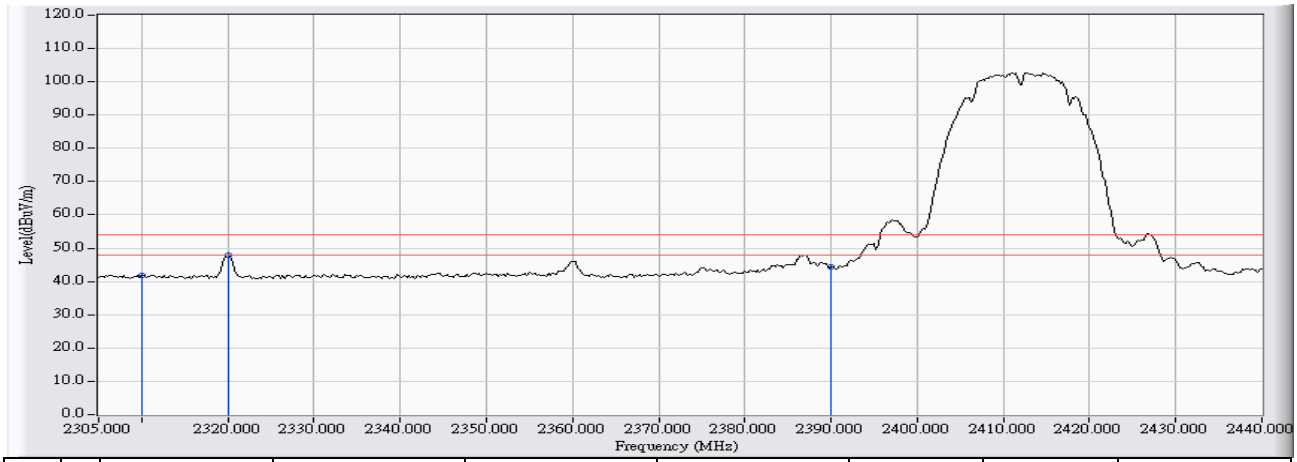



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 27.138 | 54.292 | -19.708 | 74.000 | PEAK |
| 2 | * | 2359.900 | 27.394 | 31.633 | 59.027 | -14.973 | 74.000 | PEAK |
| 3 | | 2390.000 | 27.549 | 28.796 | 56.345 | -17.655 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 18:26** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2412MHz** |

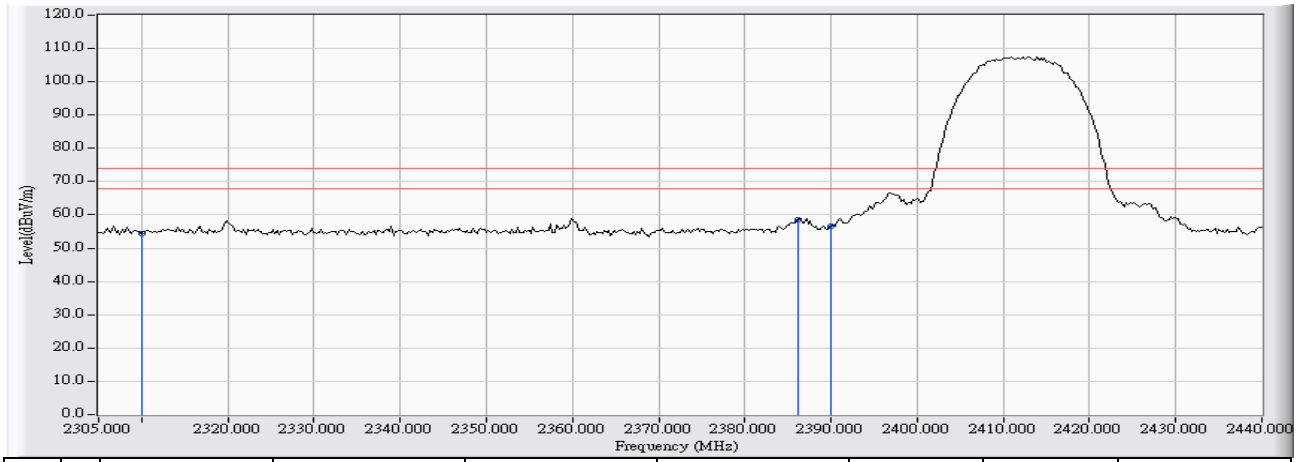



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 14.721 | 41.875 | -12.125 | 54.000 | AVERAGE |
| 2 | * | 2320.075 | 27.209 | 20.824 | 48.033 | -5.967 | 54.000 | AVERAGE |
| 3 | | 2390.000 | 27.549 | 16.720 | 44.269 | -9.731 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 19:28** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b -2412MHz** |

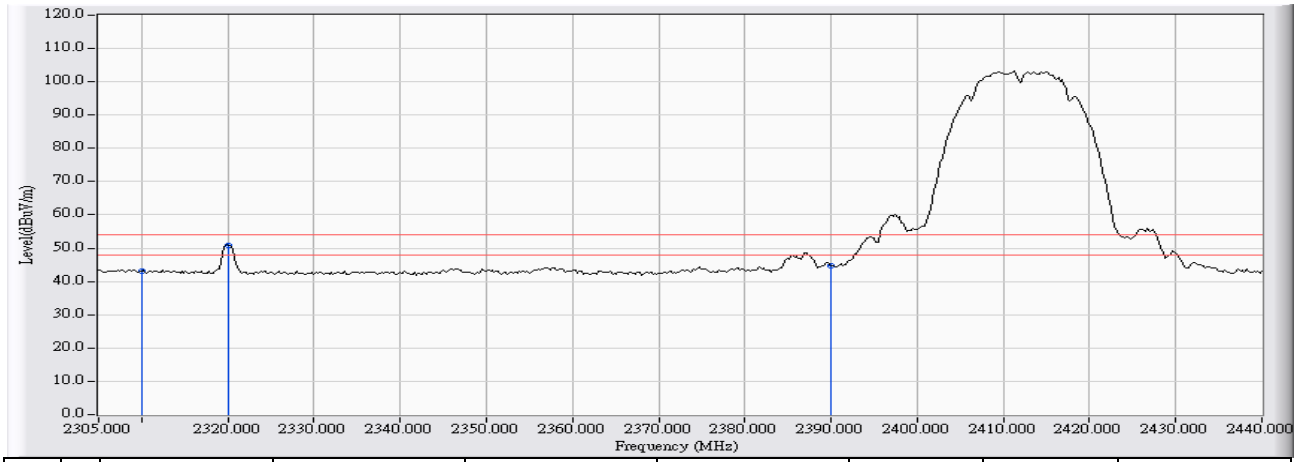



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 26.687 | 54.467 | -19.533 | 74.000 | PEAK |
| 2 | * | 2386.224 | 27.390 | 31.023 | 58.413 | -15.587 | 74.000 | PEAK |
| 3 | | 2390.000 | 27.371 | 29.372 | 56.743 | -17.257 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 19:31** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Route** | **Note : Mode 1: Transmit_GOE-802.11b-2412MHz** |

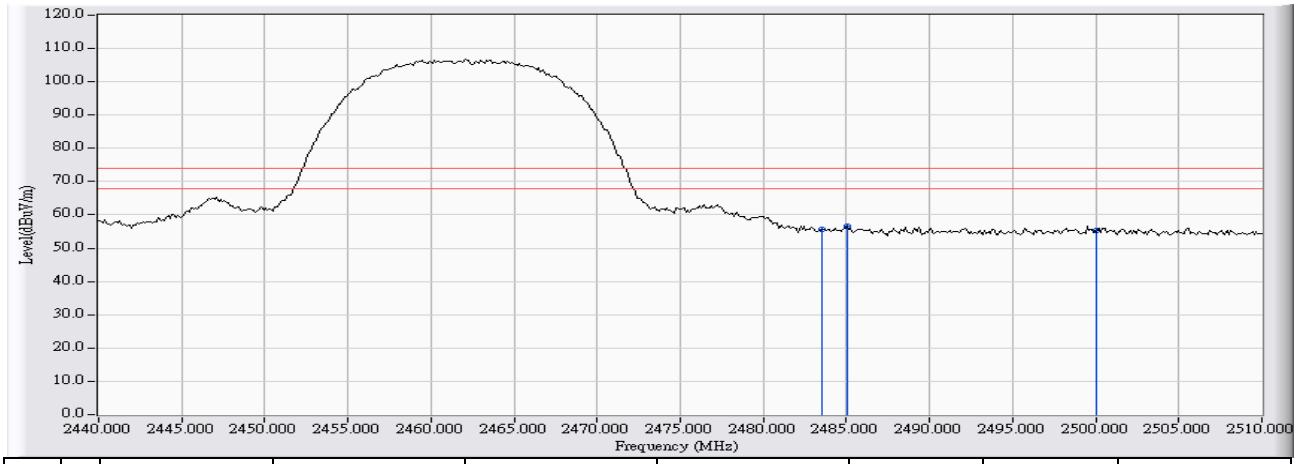



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 15.408 | 43.188 | -10.812 | 54.000 | AVERAGE |
| 2 | * | 2320.075 | 27.728 | 23.254 | 50.982 | -3.018 | 54.000 | AVERAGE |
| 3 | | 2390.000 | 27.371 | 17.465 | 44.836 | -9.164 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 21:40** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2462MHz** |

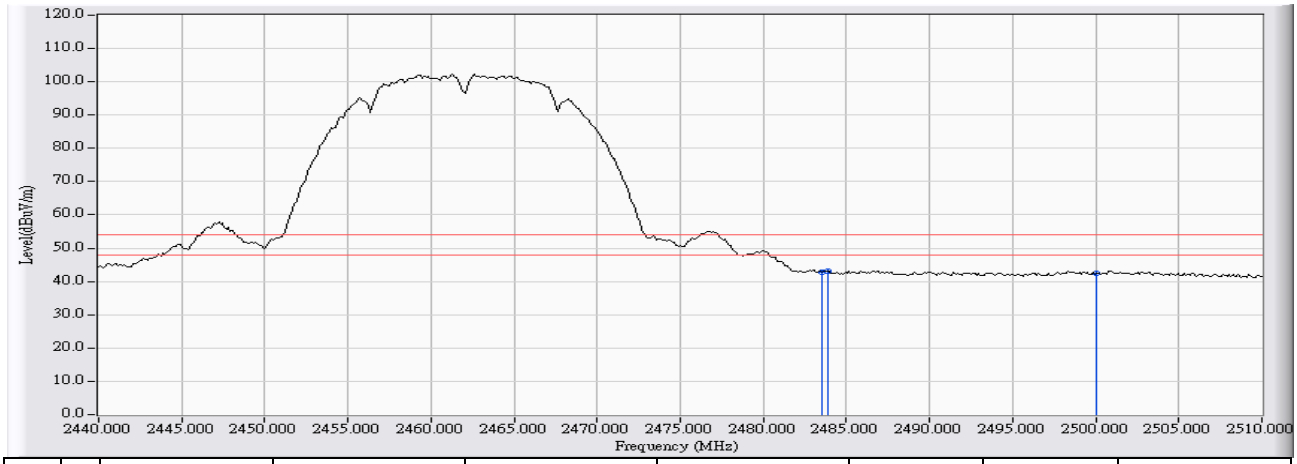



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 28.018 | 27.560 | 55.578 | -18.422 | 74.000 | PEAK |
| 2 | * | 2485.033 | 28.026 | 28.513 | 56.539 | -17.461 | 74.000 | PEAK |
| 3 | | 2500.000 | 28.097 | 27.089 | 55.186 | -18.814 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 21:42** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2462MHz** |

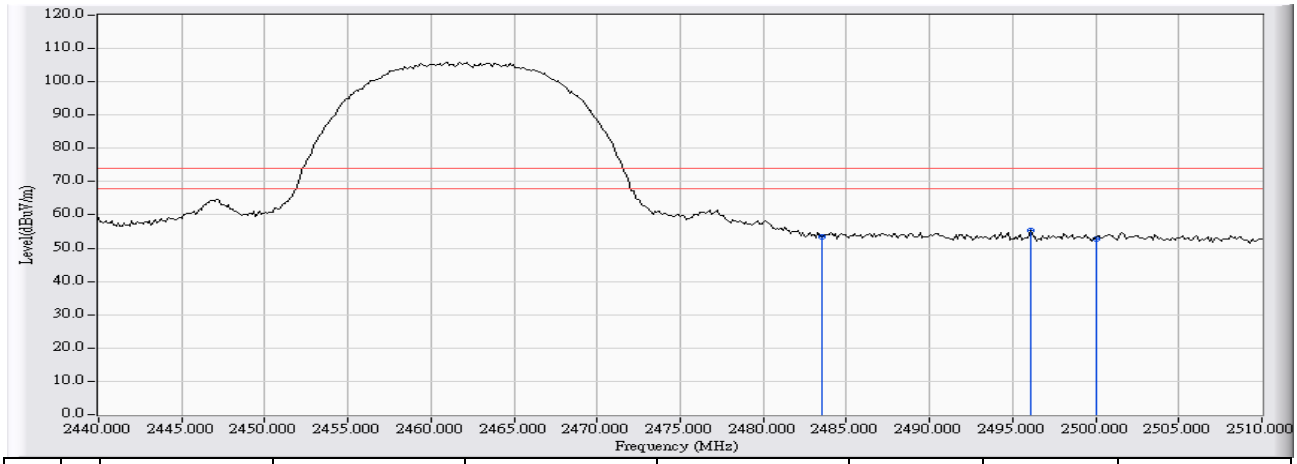



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 28.018 | 14.722 | 42.740 | -11.260 | 54.000 | AVERAGE |
| 2 | * | 2483.866 | 28.021 | 15.144 | 43.165 | -10.835 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 28.097 | 14.234 | 42.331 | -11.669 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:41** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2462MHz** |

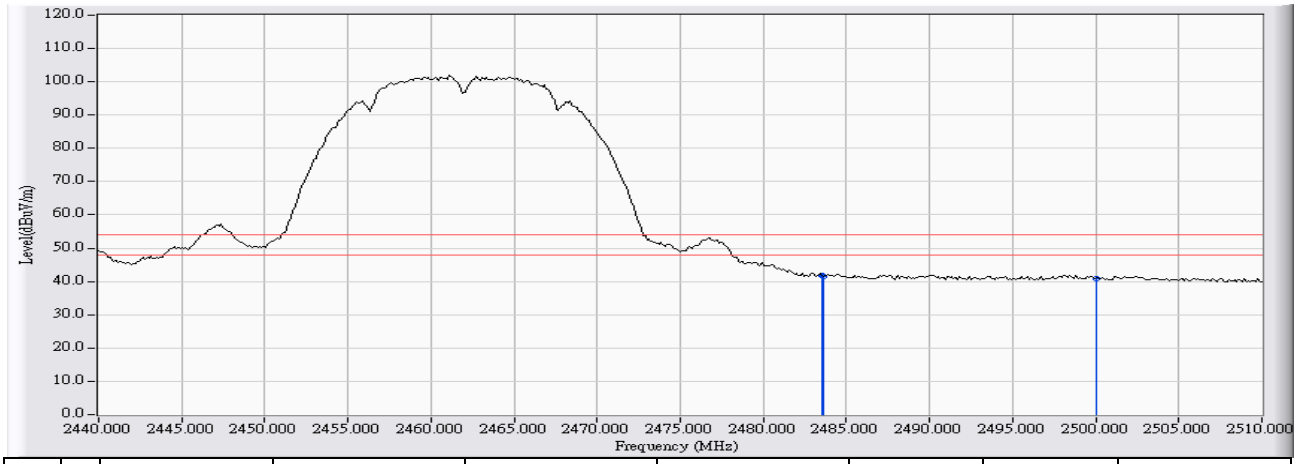



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 26.896 | 26.633 | 53.529 | -20.471 | 74.000 | PEAK |
| 2 | * | 2496.117 | 26.824 | 28.420 | 55.244 | -18.756 | 74.000 | PEAK |
| 3 | | 2500.000 | 26.834 | 26.085 | 52.919 | -21.081 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:43** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11b-2462MHz** |

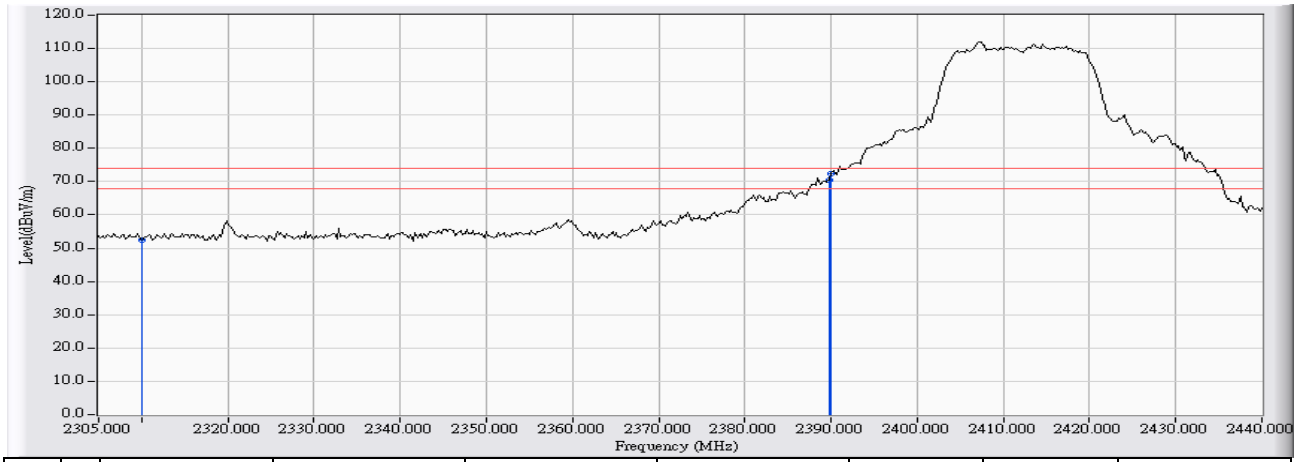



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 2483.500 | 26.896 | 14.889 | 41.785 | -12.215 | 54.000 | AVERAGE |
| 2 | | 2483.633 | 26.895 | 14.737 | 41.632 | -12.368 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 26.834 | 14.031 | 40.865 | -13.135 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 18:41** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2412MHz** |

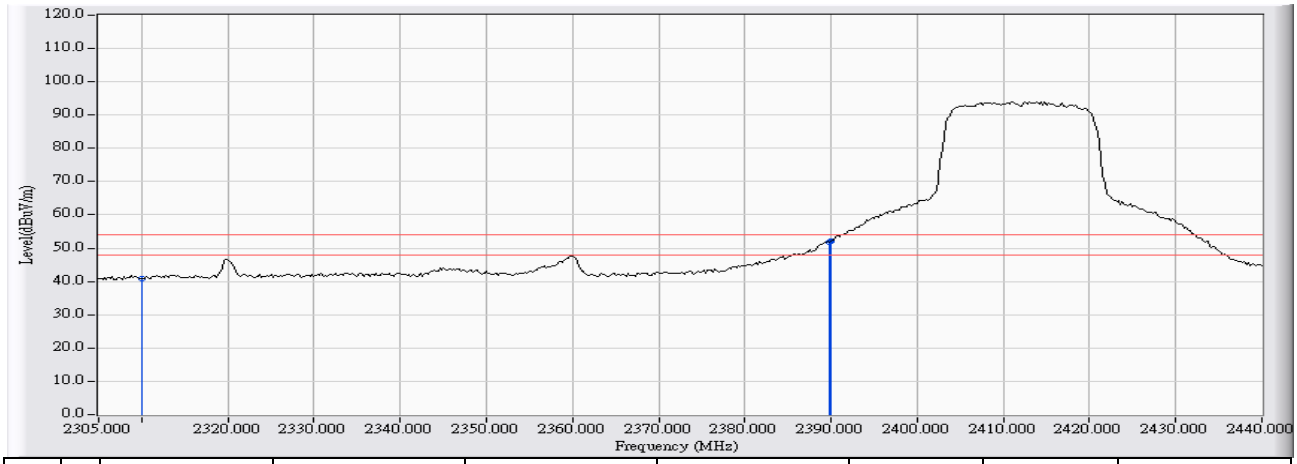



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 25.327 | 52.481 | -21.519 | 74.000 | PEAK |
| 2 | | 2389.825 | 27.547 | 43.049 | 70.596 | -3.404 | 74.000 | PEAK |
| 3 | * | 2390.000 | 27.549 | 44.772 | 72.321 | -1.679 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 18:44** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2412MHz** |

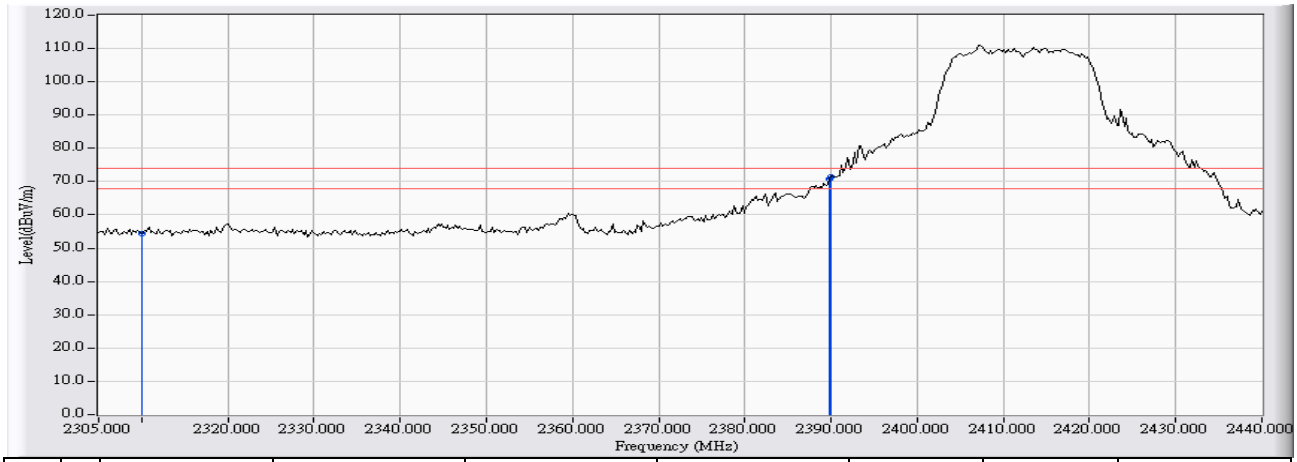



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 13.829 | 40.983 | -13.017 | 54.000 | AVERAGE |
| 2 | | 2389.824 | 27.547 | 24.176 | 51.723 | -2.277 | 54.000 | AVERAGE |
| 3 | * | 2390.000 | 27.549 | 24.572 | 52.121 | -1.879 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 19:44** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2412MHz** |

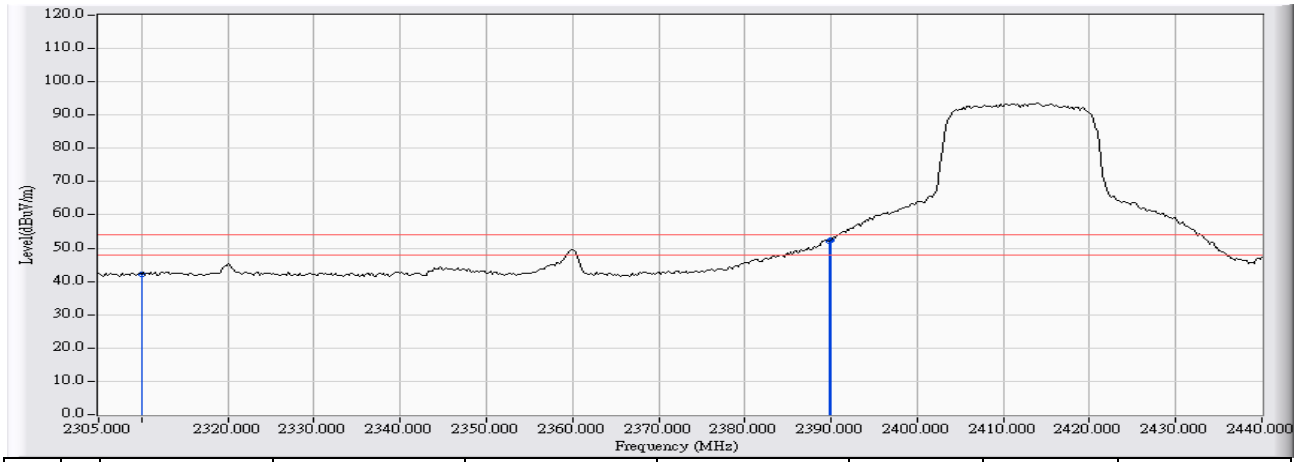



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 26.547 | 54.327 | -19.673 | 74.000 | PEAK |
| 2 | | 2389.825 | 27.371 | 43.352 | 70.723 | -3.277 | 74.000 | PEAK |
| 3 | * | 2390.000 | 27.371 | 44.188 | 71.559 | -2.441 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 19:46** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2412MHz** |

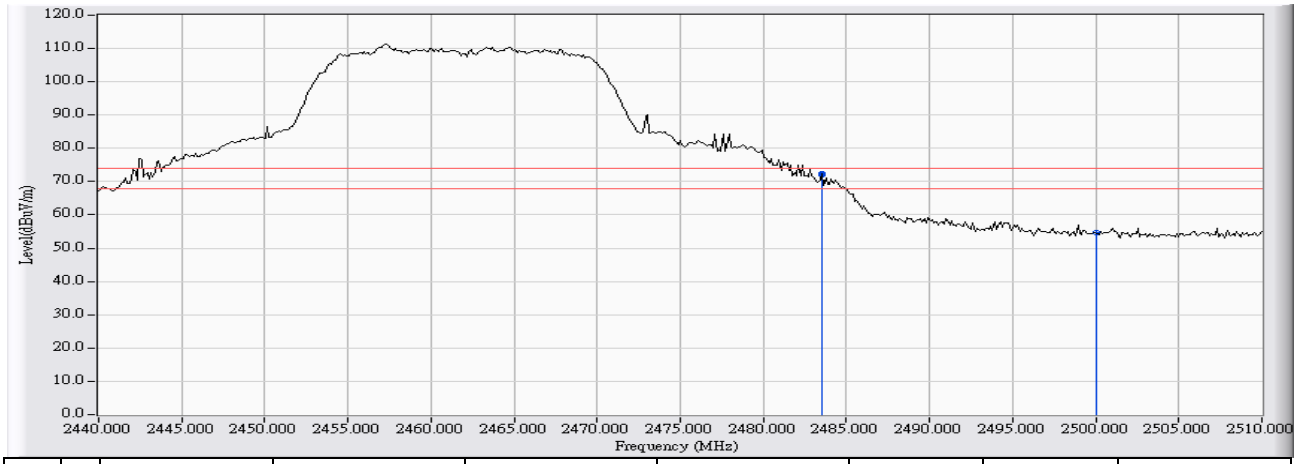



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 14.425 | 42.205 | -11.795 | 54.000 | AVERAGE |
| 2 | | 2389.824 | 27.371 | 24.778 | 52.149 | -1.851 | 54.000 | AVERAGE |
| 3 | * | 2390.000 | 27.371 | 25.102 | 52.473 | -1.527 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 21:56** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2462MHz** |

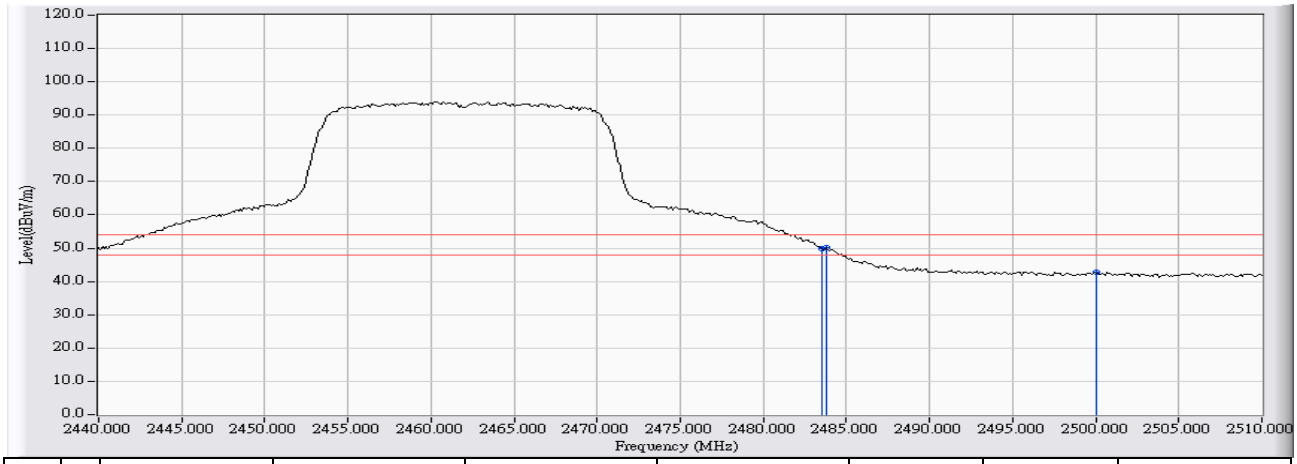



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 28.018 | 44.135 | 72.153 | -1.847 | 74.000 | PEAK |
| 2 | * | 2483.517 | 28.018 | 44.393 | 72.411 | -1.589 | 74.000 | PEAK |
| 3 | | 2500.000 | 28.097 | 26.488 | 54.585 | -19.415 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 21:59** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2462MHz** |

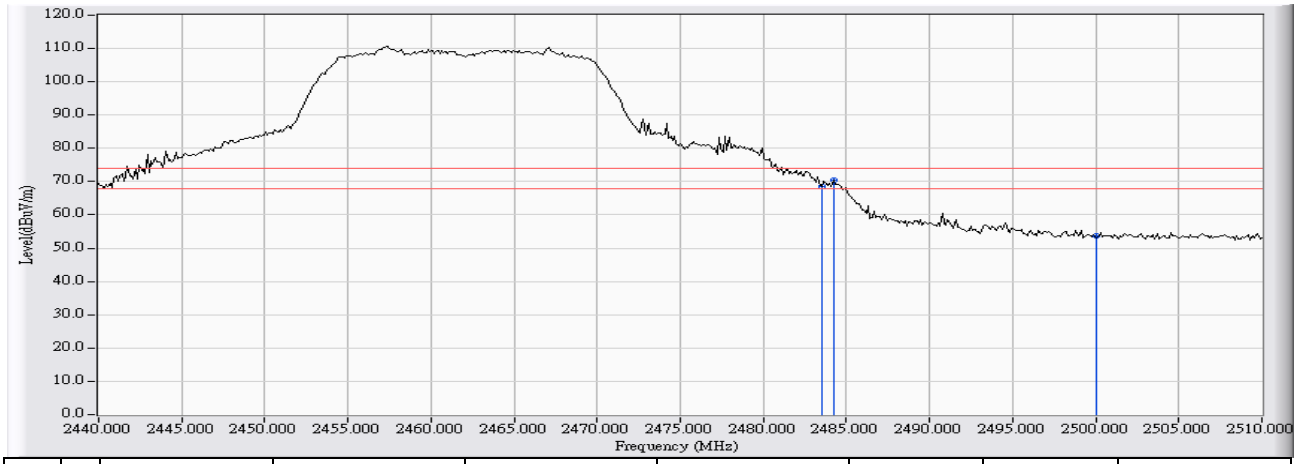



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 28.018 | 21.957 | 49.975 | -4.025 | 54.000 | AVERAGE |
| 2 | * | 2483.750 | 28.020 | 22.054 | 50.074 | -3.926 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 28.097 | 14.569 | 42.666 | -11.334 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:56** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2462MHz** |

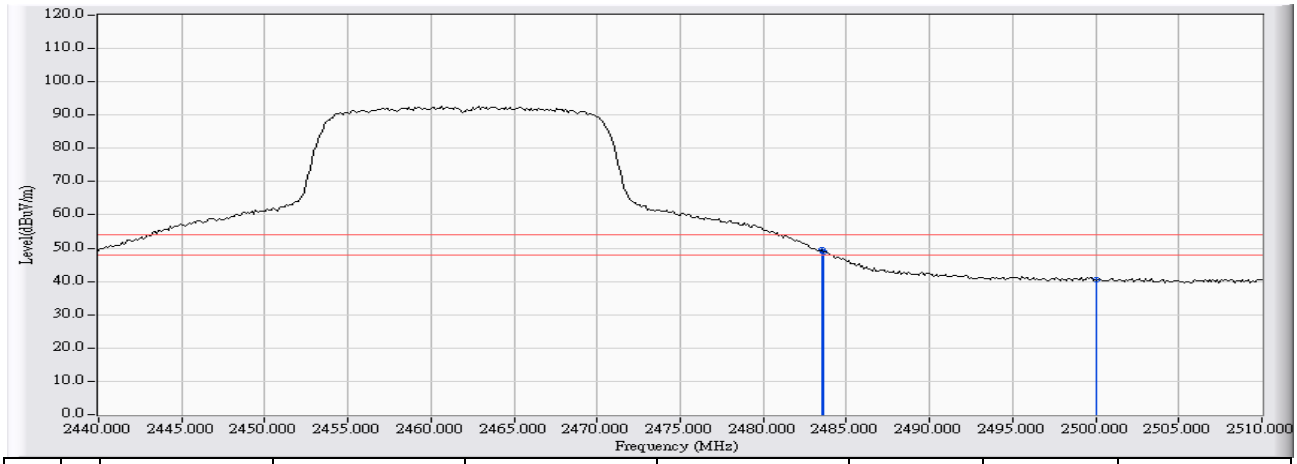



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 26.896 | 41.639 | 68.535 | -5.465 | 74.000 | PEAK |
| 2 | * | 2484.216 | 26.892 | 43.464 | 70.356 | -3.644 | 74.000 | PEAK |
| 3 | | 2500.000 | 26.834 | 26.765 | 53.599 | -20.401 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:59** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11g-2462MHz** |

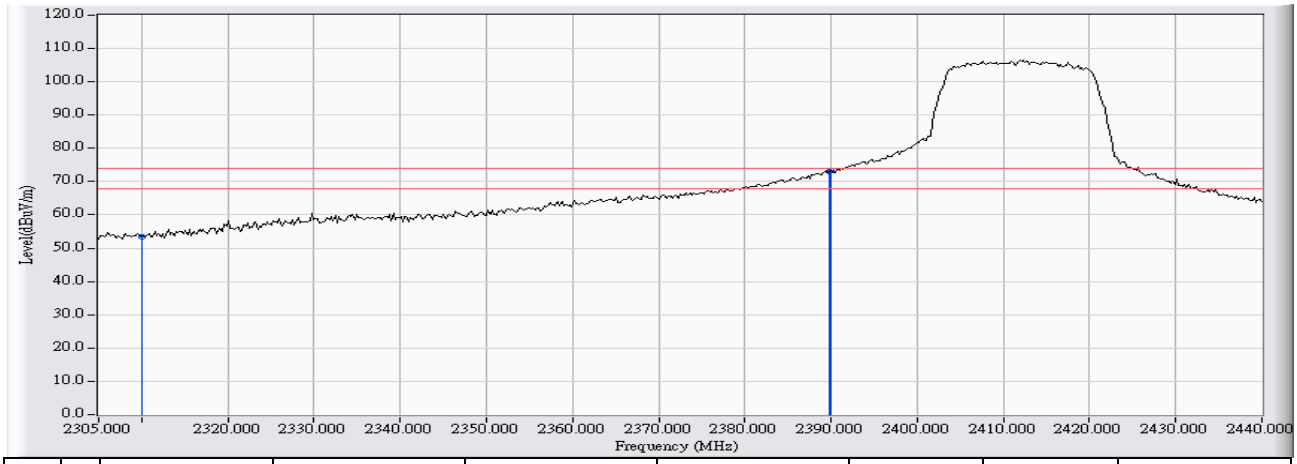



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 2483.500 | 26.896 | 22.568 | 49.464 | -4.536 | 54.000 | AVERAGE |
| 2 | | 2483.633 | 26.895 | 22.055 | 48.950 | -5.050 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 26.834 | 13.585 | 40.419 | -13.581 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 18:57** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2412MHz** |

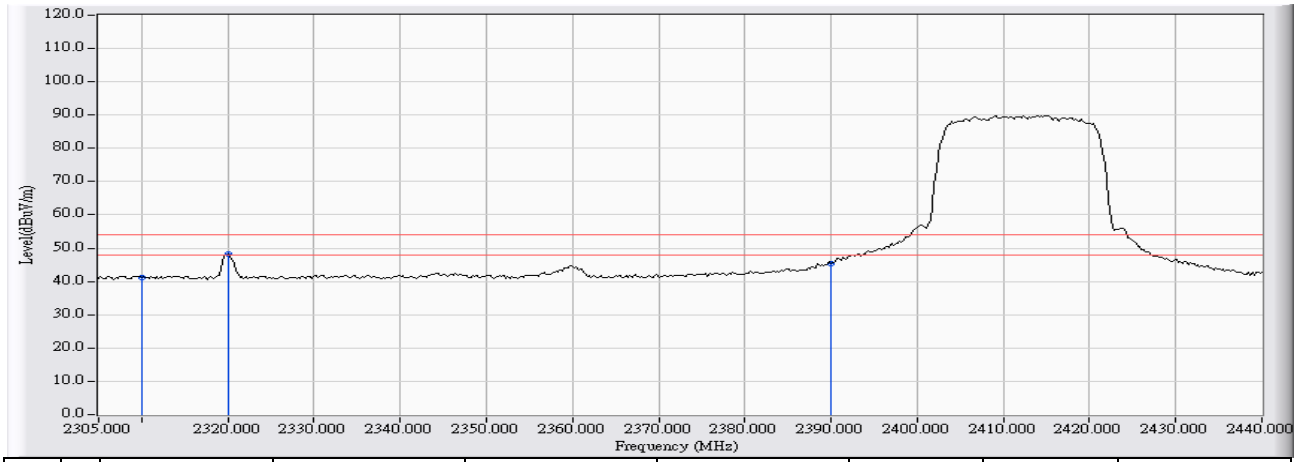



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 26.258 | 53.412 | -20.588 | 74.000 | PEAK |
| 2 | | 2389.825 | 27.547 | 45.332 | 72.879 | -1.121 | 74.000 | PEAK |
| 3 | * | 2390.000 | 27.549 | 45.666 | 73.215 | -0.785 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 18:59** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2412MHz** |

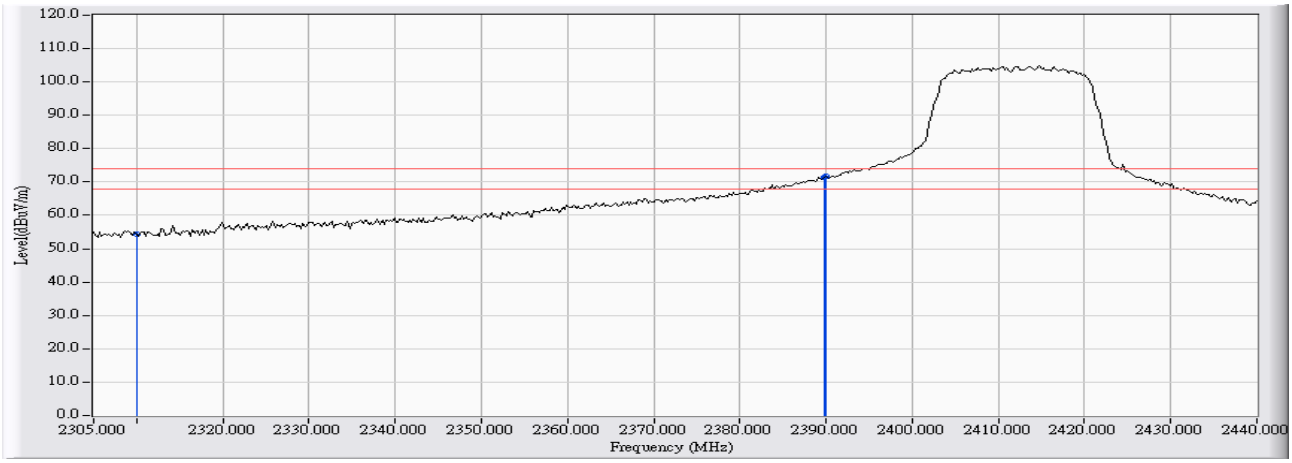



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 14.144 | 41.298 | -12.702 | 54.000 | AVERAGE |
| 2 | * | 2320.075 | 27.209 | 21.050 | 48.259 | -5.741 | 54.000 | AVERAGE |
| 3 | | 2390.000 | 27.549 | 17.947 | 45.496 | -8.504 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 19:57** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2412MHz** |

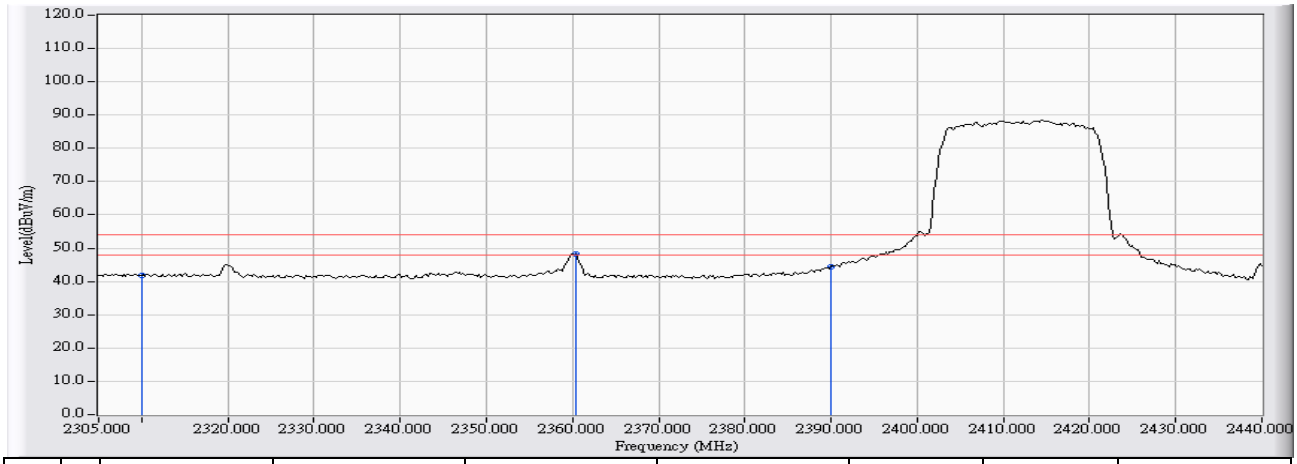



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 26.469 | 54.249 | -19.751 | 74.000 | PEAK |
| 2 | | 2389.825 | 27.371 | 44.068 | 71.439 | -2.561 | 74.000 | PEAK |
| 3 | * | 2390.000 | 27.371 | 44.319 | 71.690 | -2.310 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 20:00** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2412MHz** |

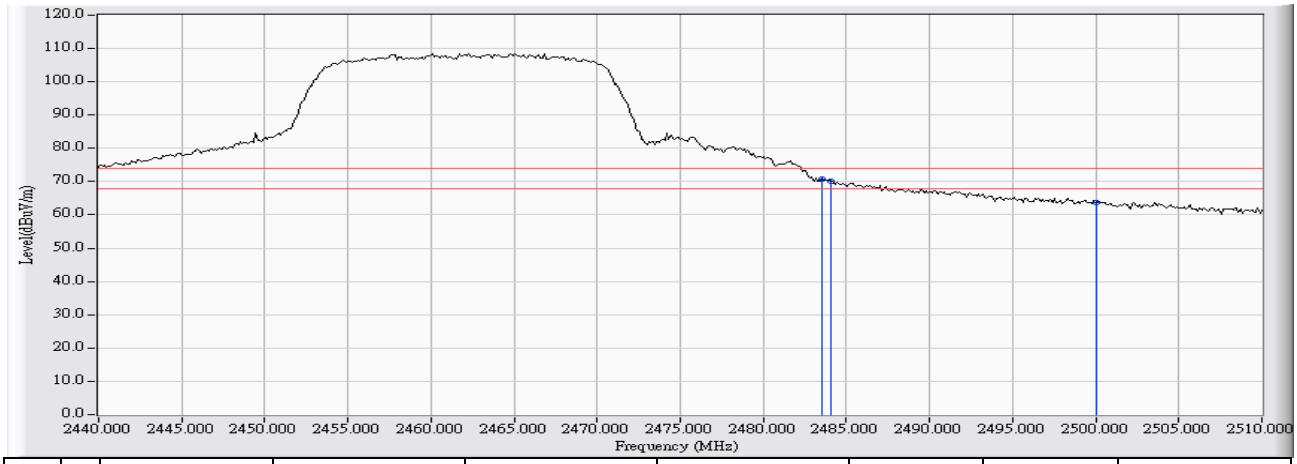



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 14.098 | 41.878 | -12.122 | 54.000 | AVERAGE |
| 2 | * | 2360.350 | 27.517 | 20.631 | 48.148 | -5.852 | 54.000 | AVERAGE |
| 3 | | 2390.000 | 27.371 | 17.073 | 44.444 | -9.556 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:14** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2462MHz** |

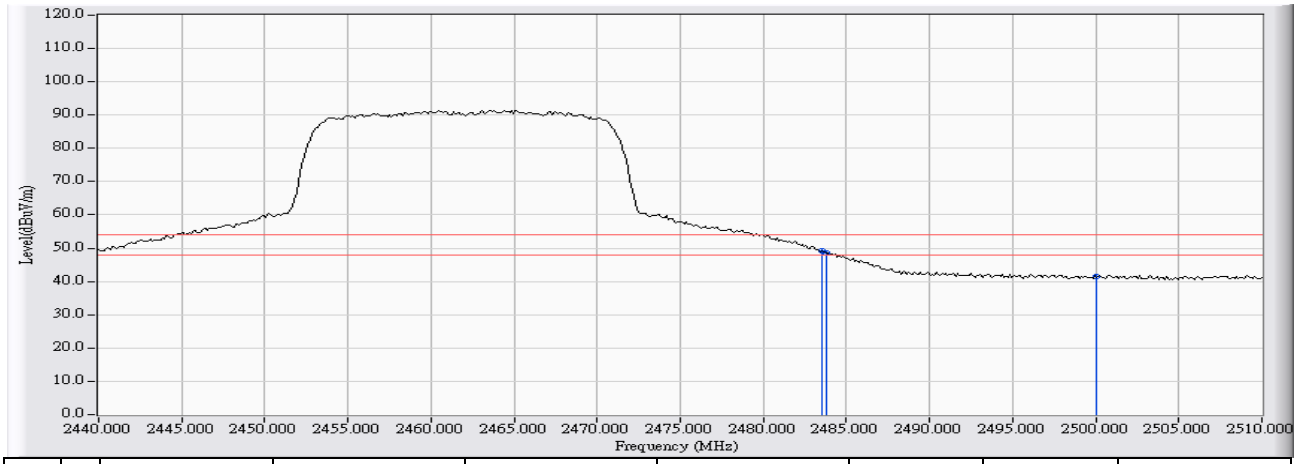



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 2483.500 | 28.018 | 42.802 | 70.820 | -3.180 | 74.000 | PEAK |
| 2 | | 2484.100 | 28.021 | 42.078 | 70.099 | -3.901 | 74.000 | PEAK |
| 3 | | 2500.000 | 28.097 | 35.724 | 63.821 | -10.179 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:17** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2462MHz** |

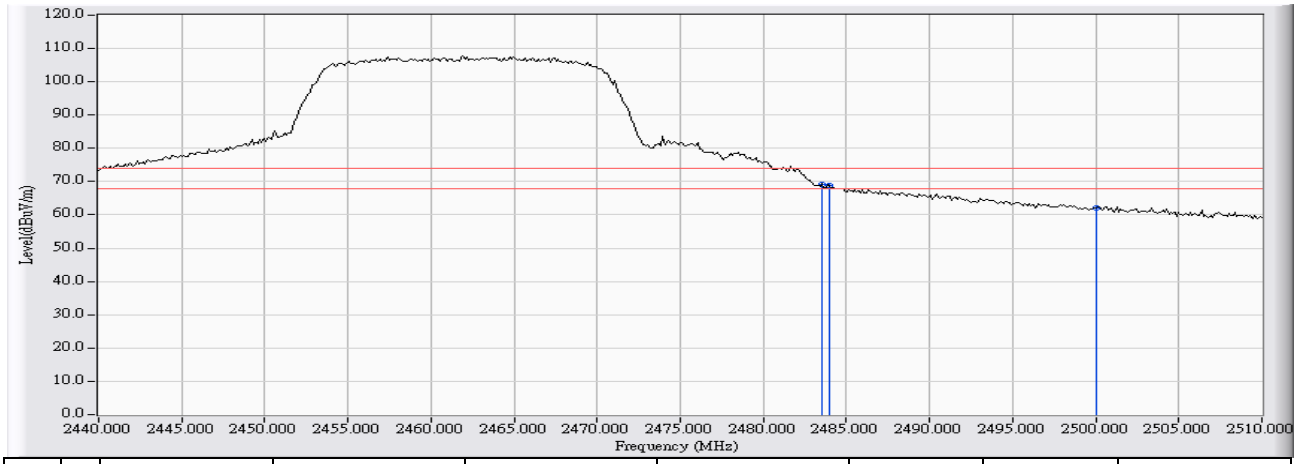



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 2483.500 | 28.018 | 21.129 | 49.147 | -4.853 | 54.000 | AVERAGE |
| 2 | | 2483.750 | 28.020 | 20.442 | 48.462 | -5.538 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 28.097 | 13.450 | 41.547 | -12.453 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 23:14** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2462MHz** |

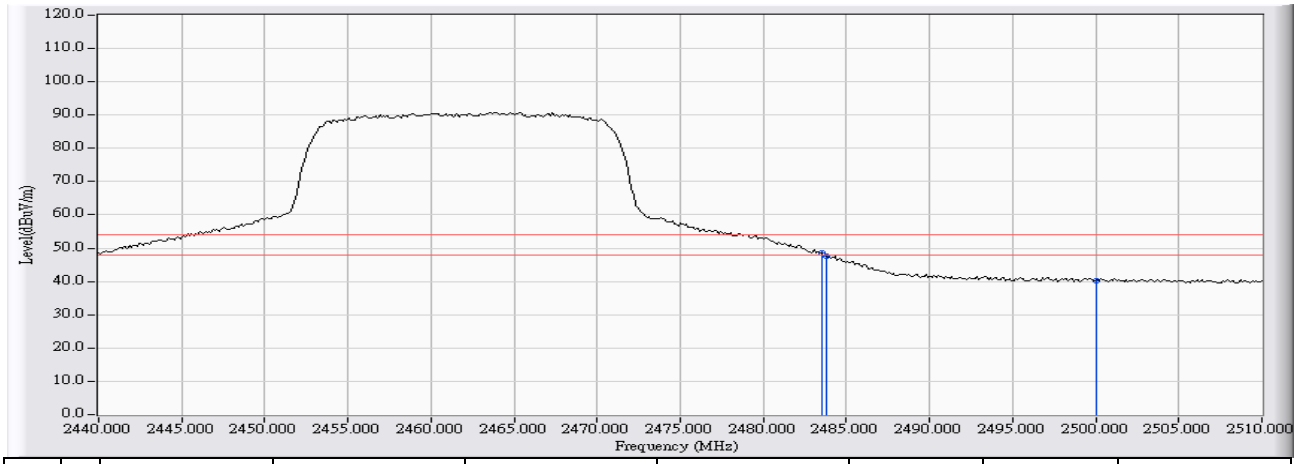



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 2483.500 | 26.896 | 42.383 | 69.279 | -4.721 | 74.000 | PEAK |
| 2 | | 2483.983 | 26.894 | 41.971 | 68.865 | -5.135 | 74.000 | PEAK |
| 3 | | 2500.000 | 26.834 | 35.224 | 62.058 | -11.942 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 23:16** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(20M) -2462MHz** |

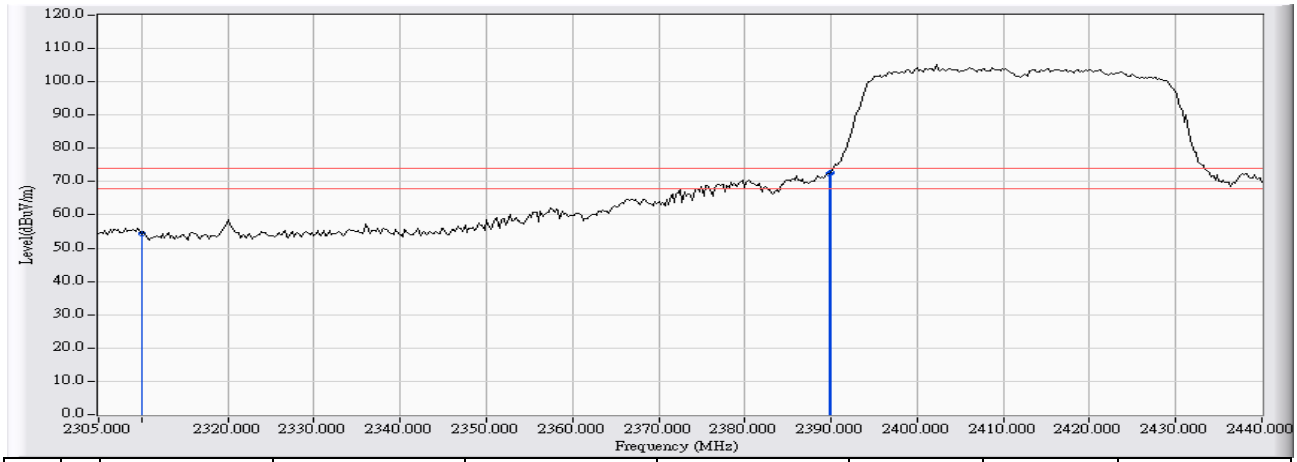



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 2483.500 | 26.896 | 21.535 | 48.431 | -5.569 | 54.000 | AVERAGE |
| 2 | | 2483.750 | 26.896 | 20.708 | 47.604 | -6.396 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 26.834 | 13.407 | 40.241 | -13.759 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 19:13** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2422MHz** |

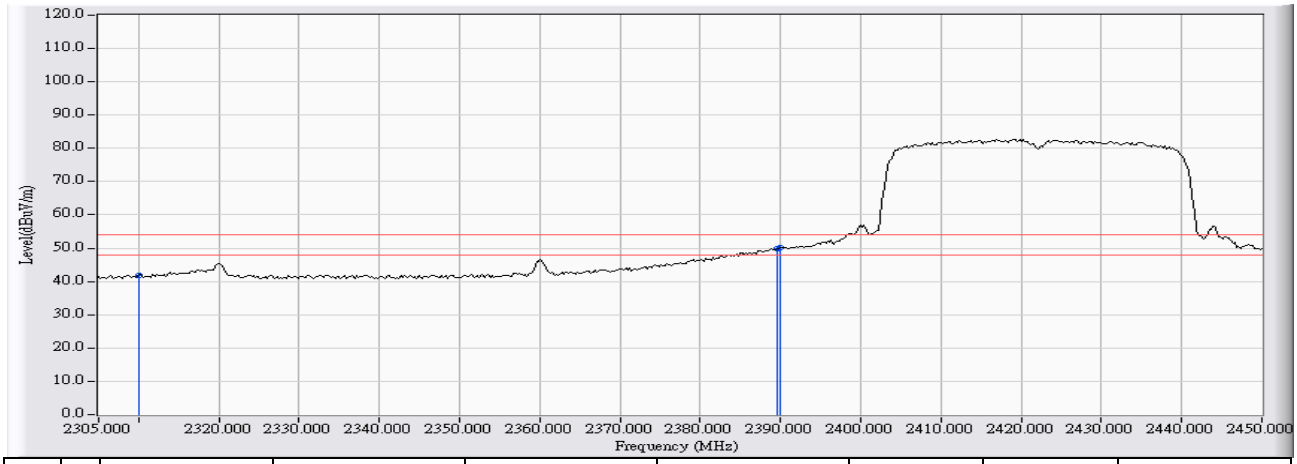



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 27.197 | 54.351 | -19.649 | 74.000 | PEAK |
| 2 | | 2389.824 | 27.547 | 44.988 | 72.535 | -1.465 | 74.000 | PEAK |
| 3 | * | 2390.000 | 27.549 | 45.097 | 72.646 | -1.354 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 19:15** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2422MHz** |

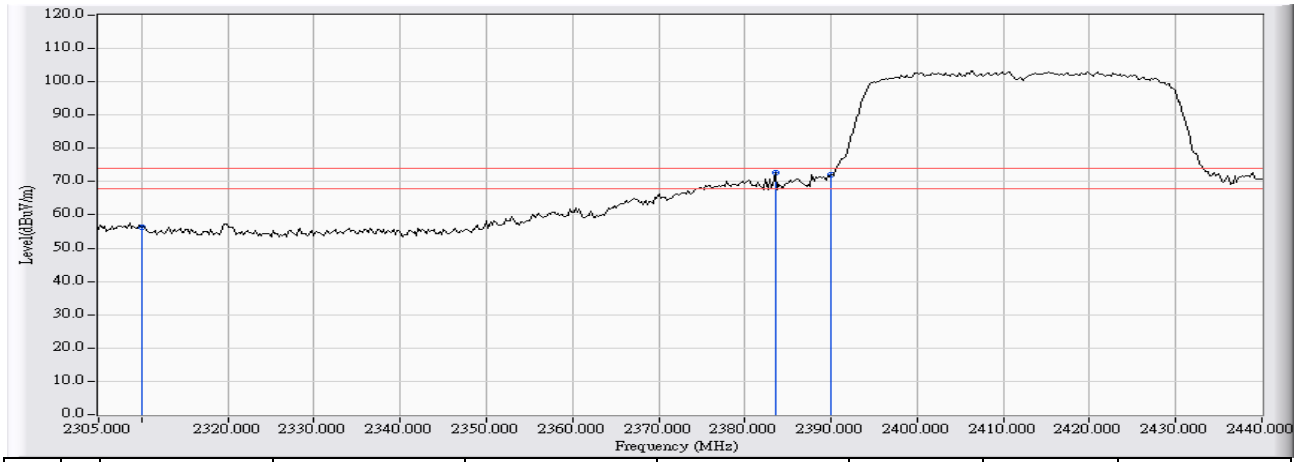



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.154 | 14.717 | 41.871 | -12.129 | 54.000 | AVERAGE |
| 2 | | 2389.584 | 27.547 | 22.302 | 49.849 | -4.151 | 54.000 | AVERAGE |
| 3 | * | 2390.000 | 27.549 | 22.588 | 50.137 | -3.863 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 21:23** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2422MHz** |

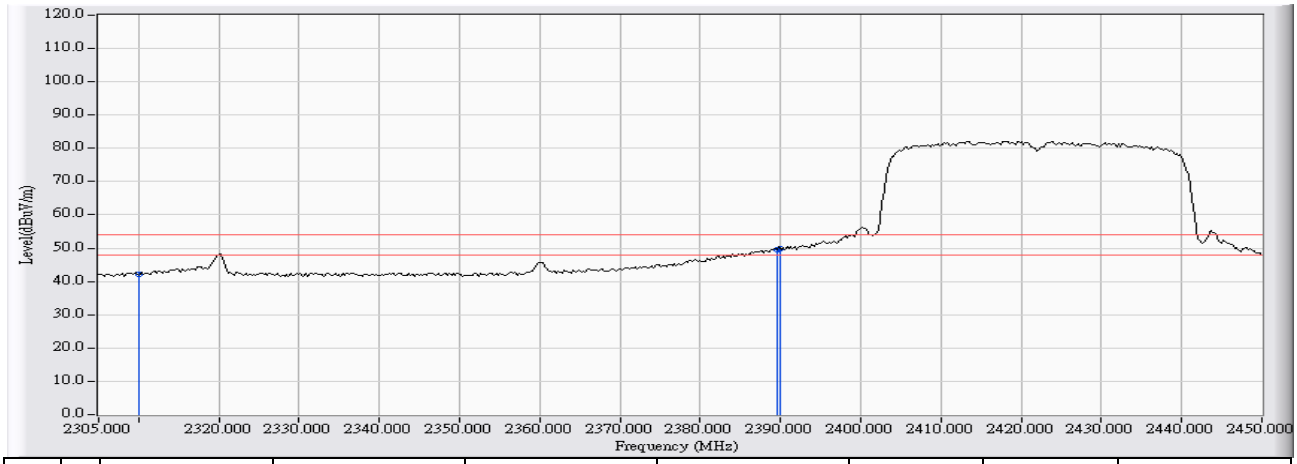



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 28.585 | 56.365 | -17.635 | 74.000 | PEAK |
| 2 | * | 2383.525 | 27.404 | 45.371 | 72.775 | -1.225 | 74.000 | PEAK |
| 3 | | 2390.000 | 27.371 | 44.600 | 71.971 | -2.029 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 21:25** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2422MHz** |

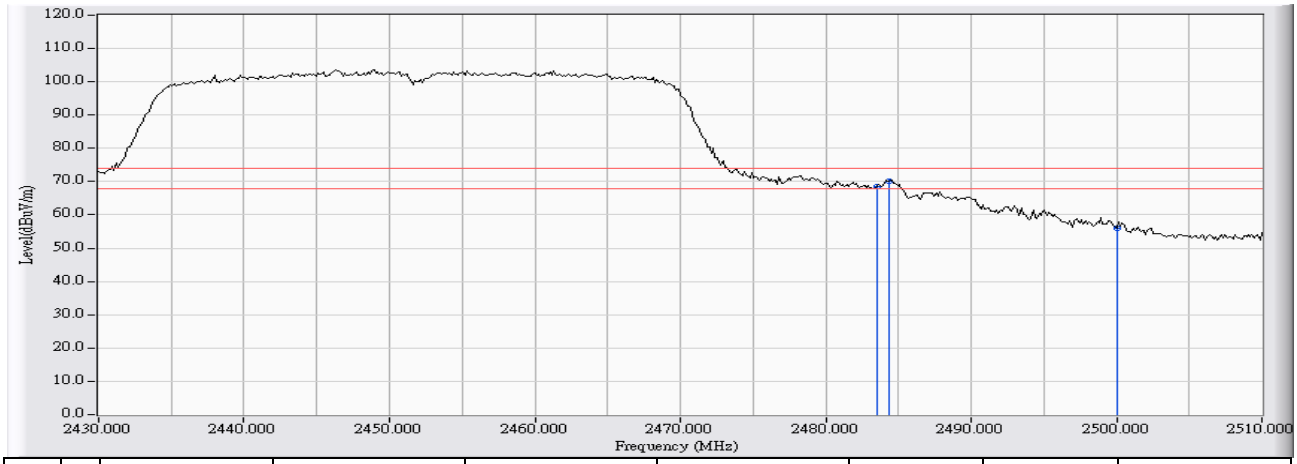



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2310.000 | 27.780 | 14.215 | 41.995 | -12.005 | 54.000 | AVERAGE |
| 2 | | 2389.583 | 27.372 | 22.196 | 49.568 | -4.432 | 54.000 | AVERAGE |
| 3 | * | 2390.000 | 27.371 | 22.431 | 49.802 | -4.198 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:32** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2452MHz** |

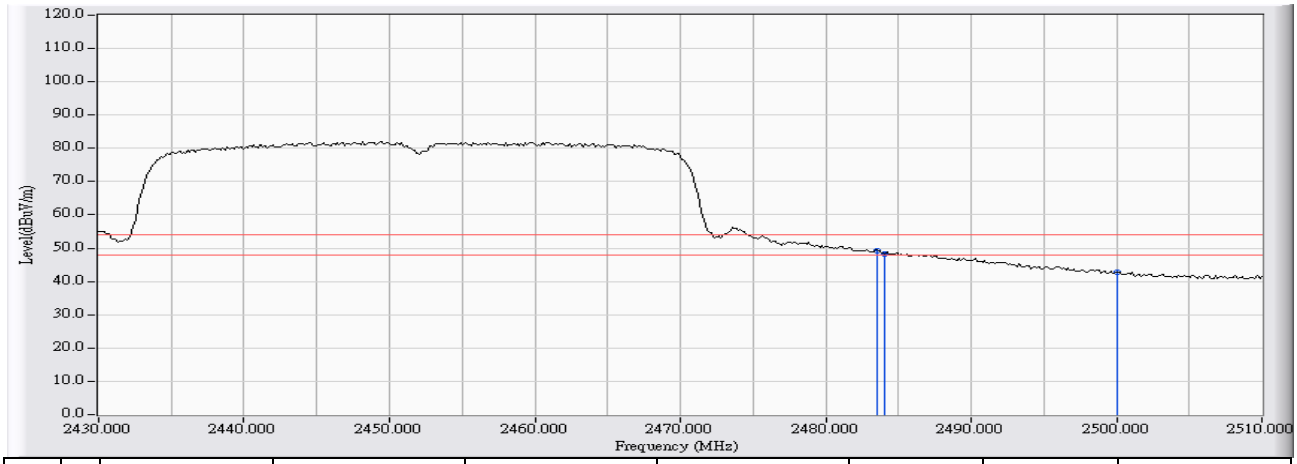



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 28.018 | 40.434 | 68.452 | -5.548 | 74.000 | PEAK |
| 2 | * | 2484.399 | 28.023 | 42.124 | 70.147 | -3.853 | 74.000 | PEAK |
| 3 | | 2500.000 | 28.097 | 27.963 | 56.060 | -17.940 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 22:35** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - HORIZONTAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2452MHz** |

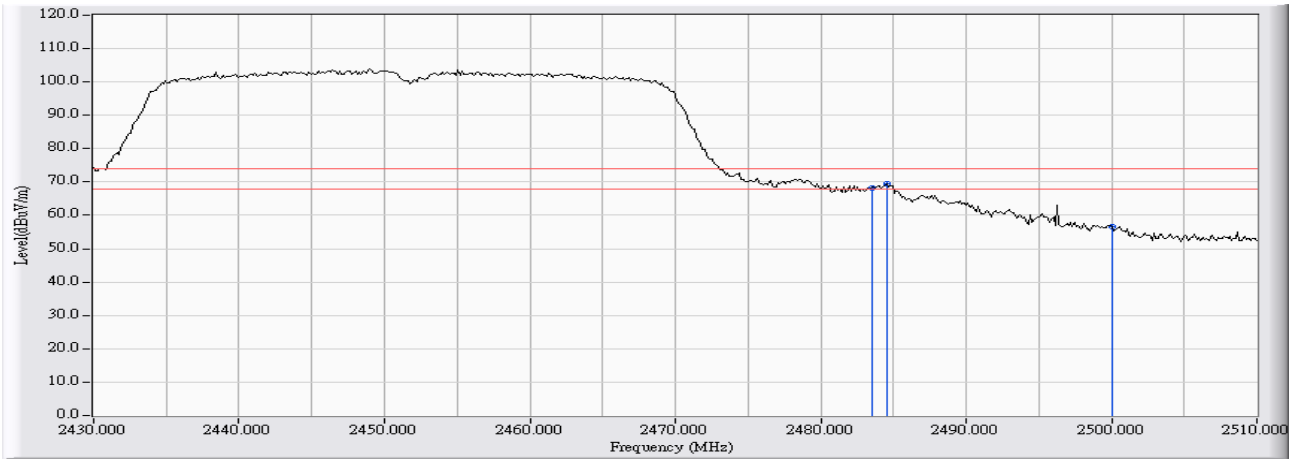



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | * | 2483.500 | 28.018 | 21.325 | 49.343 | -4.657 | 54.000 | AVERAGE |
| 2 | | 2484.000 | 28.021 | 20.354 | 48.375 | -5.625 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 28.097 | 14.669 | 42.766 | -11.234 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 23:30** |
| **Limit : FCC_SpartC_15.209_03M_PK** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2452MHz** |

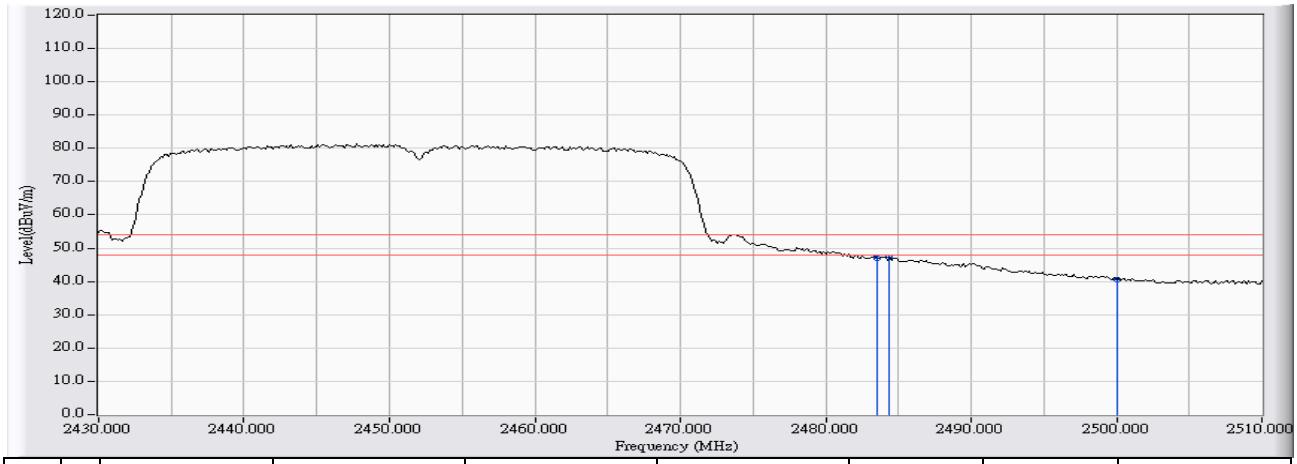



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 26.896 | 41.381 | 68.277 | -5.723 | 74.000 | PEAK |
| 2 | * | 2484.533 | 26.890 | 42.752 | 69.642 | -4.358 | 74.000 | PEAK |
| 3 | | 2500.000 | 26.834 | 29.884 | 56.718 | -17.282 | 74.000 | PEAK |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

| | |
|---|---|
| **Site : CB1** | **Time : 2010/11/11 - 23:32** |
| **Limit : FCC_SpartC_15.209_03M_AV** | **Margin : 6** |
| **Probe : FCC_EFS_1-18G(2009-11) - VERTICAL** | **Power : AC 120V/60Hz** |
| **EUT : 3G MOBILE Wireless Router** | **Note : Mode 1: Transmit_GOE-802.11n(40M) -2452MHz** |




| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|---|---|---|---|---|---|---|
| 1 | | 2483.500 | 26.896 | 20.182 | 47.078 | -6.922 | 54.000 | AVERAGE |
| 2 | * | 2484.400 | 26.891 | 20.356 | 47.247 | -6.753 | 54.000 | AVERAGE |
| 3 | | 2500.000 | 26.834 | 13.823 | 40.657 | -13.343 | 54.000 | AVERAGE |

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.