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Report No.: GLEMO09060189802
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FCC ID: G2R-0788

TEST REPORT

Application No. : GLEMO090601898RF
Applicant: Vtech Electronics Limited
FCC ID: G2R-0788
Frequency Band 2409-2479MHz
Equipment Under Test (EUT):
Name: V.smile motion
Model No.: 80- 0788XX♣
♣ Please refer to section 2 of this report which indicates which item was actually tested and which were **electrically** identical.
Serial No.: Not supplied by client
Standards: FCC PART 15 SUBPART C: 2008
Please refer to section 2 for further details.
Date of Receipt: 26 June 2009
Date of Test: 03 July 2009
Date of Issue: 08 July 2009

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

In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Stephen Guo
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

| Test | Test Requirement | Standard Paragraph | Result |
|--------------------------------------|-------------------|--|--------|
| Flied Strength of Fundamental | FCC PART 15 :2007 | Section 15.249 (a) | PASS |
| Flied Strength of Unwanted Emissions | FCC PART 15 :2007 | Section 15.249 (a) Section 15.249 (d) | PASS |
| Occupied Bandwidth | FCC PART 15 :2007 | Section 15.249 | PASS |
| Band Edges | FCC PART 15 :2007 | Section 15.249 (d) | PASS |
| Conducted Emission (150KHz to 30MHz) | FCC PART 15 :2007 | Section 15.207 | PASS |

Remark:

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

♣Item No.: 80-0788XX

According to the confirmation from the applicant, since the electrical circuit design, layout, components used and internal wiring were identical for the above items, only difference being the item numbers or outer decoration.

Therefore only one item 80-0788 was tested in this report.



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4 General Information

4.1 Client Information

Applicant Name: Vtech Electronics Limited
Address of Applicant: 23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong

4.2 General Description of E.U.T.

Product Name: V.smile motion
Model: 80- 0788XX
Power Supply: DC 9V OR 6V (4 x 1.5V'AA' size batteries) for host.
Adaptor: Input: AC 120/60Hz; Output: DC 9V 300mA
Power Cord: 1.8mX 2 wires unscreened Audio, Video cable.
1.8mX 2 wires unscreened AC/DC cable.
2.8m unscreened control lines.
1.7m unscreened mic lines.

4.3 Description of EUT operation

Type of Modulation FHSS
Frequency Band 2409MHz ~ 2479MHz
Antenna Type Integrate Antenna

4.4 Standards Applicable for Testing

The standard used was FCC PART 15, SUBPART C (2008) section 15.249.

4.5 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663
Tel: +86 20 82155555 Fax: +86 20 82075059
No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.



4.7 Test Facility

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

- **NVLAP – Lab Code: 200611-0**

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

- **FCC – Registration No.: 282399**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.



5 Equipments Used during Test

| RE in Chamber | | | | | | |
|---------------|-------------------------------|-------------------|---------------|------------|----------------------|-------------------------|
| No: | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| EMC0525 | Compact Semi-Anechoic Chamber | ChangZhou ZhongYu | N/A | N/A | N/A | N/A |
| EMC0522 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | 100249 | 28-01-2009 | 28-01-2010 |
| EMC0056 | EMI Test Receiver | Rohde & Schwarz | ESCI | 10036 | 14-07-2008 | 14-07-2009 |
| N/A | EMI Test Software | Audix | E3 | N/A | N/A | N/A |
| EMC0514 | Coaxial cable | SGS | N/A | N/A | 04-12-2008 | 04-12-2009 |
| EMC0524 | Bi-log Type Antenna | Schaffner -Chase | CBL6112B | 2966 | 08-10-2008 | 08-10-2009 |
| EMC0519 | Bilog Type Antenna | Schaffner -Chase | CBL6143 | 5070 | 08-10-2008 | 08-10-2009 |
| EMC0517 | Horn Antenna | Rohde & Schwarz | HF906 | 100095 | 12-08-2008 | 12-08-2009 |
| EMC0040 | Spectrum Analyzer | Rohde & Schwarz | FSP30 | 100324 | 05-12-2008 | 05-12-2009 |
| EMC0520 | 0.1-1300 MHz Pre-Amplifier | HP | 8447D OPT 010 | 2944A06252 | 11-03-2009 | 11-03-2010 |
| EMC0521 | 1-26.5 GHz Pre-Amplifier | Agilent | 8449B | 3008A01649 | 11-03-2009 | 11-03-2010 |
| EMC0075 | 310N Amplifier | Sonama | 310N | 272683 | 10-09-2008 | 10-09-2009 |
| EMC0523 | Active Loop Antenna | EMCO | 6502 | 00042963 | 09-08-2008 | 09-08-2010 |
| EMC0530 | 10m Semi- Anechoic Chamber | ETS | N/A | N/A | 10-08-2008 | 10-08-2009 |

| Conducted Emission | | | | | | |
|--------------------|-------------------|------------------------------------|----------------------------|--------------|----------------------|-------------------------|
| No: | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| EMC0306 | Shielding Room | Zhong Yu | 8 x 3 x 3.8 m ³ | N/A | N/A | N/A |
| EMC0102 | LISN | Schaffner Chase | MNZ050D/1 | 1421 | 14-12-2008 | 14-12-2009 |
| EMC0118 | Two-line v-netwok | Rohde & Schwarz | ENV216 | 3560.6550.02 | 28-07-2008 | 28-07-2009 |
| EMC0506 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | 100085 | 14-12-2008 | 14-12-2009 |
| EMC0107 | Coaxial Cable | SGS | 2m | N/A | 26-11-2008 | 26-11-2009 |
| EMC0106 | Voltage Probe | SGS | N/A | N/A | N/A | N/A |
| EMC0120 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T8-02 | 20550 | 21-02-2009 | 21-02-2010 |
| EMC0121 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T4-02 | 20549 | 21-02-2009 | 21-02-2010 |
| EMC0122 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T2-02 | 20548 | 21-02-2009 | 21-02-2010 |

| General used equipment | | | | | | |
|------------------------|----------------|--------------|-----------|------------|----------------------|-------------------------|
| No: | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| EMC0006 | DMM | Fluke | 73 | 70681569 | 23-12-2008 | 23-12-2009 |
| EMC0007 | DMM | Fluke | 73 | 70671122 | 23-12-2008 | 23-12-2009 |



6 Test Result

6.1 E.U.T. Operation

Input voltage: DC 9V or 6V for host.

Operating Environment:

Temperature: 26°C

Humidity: 56% RH

Atmospheric Pressure: 1005mbar

EUT Operation: The program used to control the EUT for staying in continuous transmitting and receiving mode is programmed by manufacturer .Channel lowest (2409MHz), middle (2449MHz) and highest (2479MHz) are chosen for full testing.

Test the Host in transmitting mode.



6.2 Test Procedure & Measurement Data

6.2.1 Field Strength of Fundamental & Field Strength of Unwanted Emissions

Test Requirement: FCC Part 15 C Section 15.249(a) & (d)
Test Method: Based on FCC Part 15 C Section 15.249 & ANSI C63.4
Test Date: July 03, 2009
Measurement Distance: 3m (Semi-Anechoic Chamber)
Frequency range: 30 MHz – 25GHz for transmitting mode.
Test instrumentation resolution bandwidth 120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 M – 25GHz)
Operation: Receive antenna scan height 1 - 4 m, polarization Vertical/ Horizontal, a turntable rotate through 360° in the horizontal plane and it is used to support the test sample at 0.8m above the ground plane.

Requirements:

FCC Part 15.249(a)

Table with 3 columns: Fundamental Frequency (MHz), Field Strength of Fundamental (dBuV/m @ 3m), Field Strength of Harmonics (dBuV/m @ 3m). Rows include frequency ranges like 902 to 928, 2400 to 2483.5, 5725 to 5875, and 24000 to 24250.

FCC Part 15.249(d)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

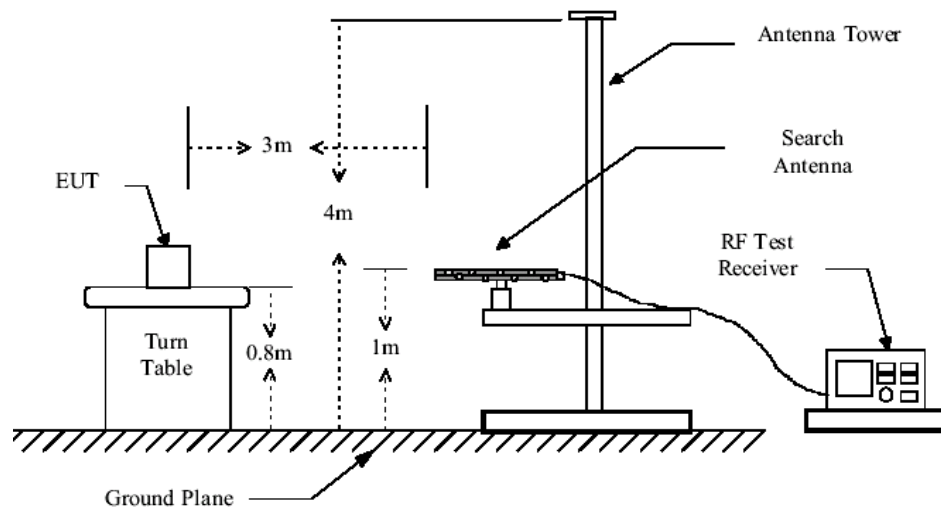
Remark:

The fundamental frequency rang of the EUT is 2409MHz ~ 2479MHz.
The limit for average field strength dBuV/m for the fundamental frequency = 94.0 dBuV/m.
The limit for Peak field strength dBuV/m for the fundamental frequency = 114.0 dBuV/m.
No fundamental is allowed in the restricted bands.
The limit for average field strength dBuV/m for the harmonics = 54.0 dBuV/m.
The limit for peak field strength dBuV/m for the harmonics = 74.0 dBuV/m.
Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or 54.0 dBuV/m in 15.209. Here the limit for the other emission is 54.0 dBuV/m.

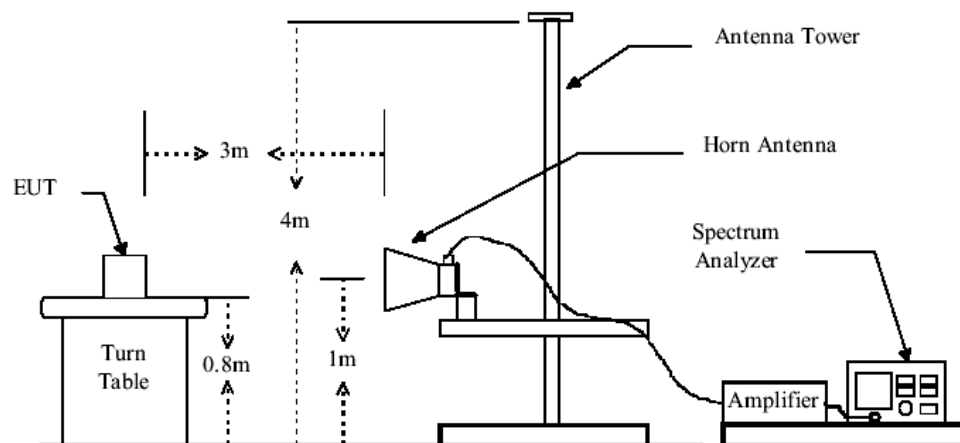
Test Procedure: The procedure used was ANSI Standard C63.4-2003. The receive was scanned from 30MHz to 25GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured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

Test Configuration:

30MHz to 1GHz:



Above 1GHz:





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

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

The following test results were performed on the Host:

1. Test in Channel lowest (2409MHz), keep in continuously transmitting status.

(a) Antenna polarization: Horizontal

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------|
| 2409.000 | 94.3 | 28.6 | 4.3 | 36.9 | 90.3 | 114.0 | -23.7 | PEAK |
| 2409.000 | 65.4 | 28.6 | 4.3 | 36.9 | 61.4 | 94.0 | -32.6 | AVERAG |
| 4814.000 | 51.0 | 33.2 | 6.2 | 36.3 | 54.1 | 74.0 | -19.9 | PEAK |
| 4814.000 | 38.6 | 33.2 | 6.2 | 36.3 | 41.7 | 54.0 | -12.3 | AVERAG |

(b) Antenna polarization: Vertical

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------|
| 2409.000 | 102.6 | 28.6 | 4.3 | 36.9 | 98.6 | 114.0 | -15.4 | PEAK |
| 2409.000 | 79.4 | 28.6 | 4.3 | 36.9 | 75.4 | 94.0 | -18.6 | AVERAG |
| 4814.000 | 49.4 | 33.2 | 6.2 | 36.3 | 52.5 | 74.0 | -21.5 | PEAK |
| 4814.000 | 37.7 | 33.2 | 6.2 | 36.3 | 40.8 | 54.0 | -13.2 | AVERAG |

2. Test in Channel middle (2449MHz), keep in continuously transmitting status.

(a) Antenna polarization: Horizontal

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------|
| 2449.000 | 96.4 | 28.7 | 4.4 | 37.1 | 92.4 | 114.0 | -21.6 | PEAK |
| 2449.000 | 69.7 | 28.7 | 4.4 | 37.1 | 65.7 | 94.0 | -28.3 | AVERAG |
| 4898.000 | 49.7 | 33.3 | 6.2 | 36.2 | 53.0 | 74.0 | -21.0 | PEAK |
| 4898.000 | 36.8 | 33.3 | 6.2 | 36.2 | 40.1 | 54.0 | -13.9 | AVERAG |



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(b) Antenna polarization: Vertical

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------|
| 2449.000 | 101.1 | 28.7 | 4.4 | 37.1 | 97.1 | 114.0 | -16.9 | PEAK |
| 2449.000 | 81.0 | 28.7 | 4.4 | 37.1 | 77.0 | 94.0 | -17.0 | AVERAG |
| 4898.000 | 49.7 | 33.3 | 6.2 | 36.2 | 53.0 | 74.0 | -21.0 | PEAK |
| 4898.000 | 36.3 | 33.3 | 6.2 | 36.2 | 39.6 | 54.0 | -14.4 | AVERAG |

3. Test in Channel highest (2479MHz), keep in continuously transmitting status.

(a) Antenna polarization: Horizontal

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------|
| 2479.000 | 96.2 | 28.8 | 4.4 | 37.0 | 92.4 | 114.0 | -21.6 | PEAK |
| 2479.000 | 68.8 | 28.8 | 4.4 | 37.0 | 65.0 | 94.0 | -29.0 | AVERAG |
| 4958.000 | 51.6 | 33.3 | 6.2 | 36.1 | 55.0 | 74.0 | -19.0 | PEAK |
| 4958.000 | 38.9 | 33.3 | 6.2 | 36.1 | 42.3 | 54.0 | -11.7 | AVERAG |

(b) Antenna polarization: Vertical

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Remark |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------|
| 2479.000 | 102.4 | 28.8 | 4.4 | 37.0 | 98.6 | 114.0 | -15.4 | PEAK |
| 2479.000 | 83.3 | 28.8 | 4.4 | 37.0 | 79.5 | 94.0 | -14.5 | AVERAG |
| 4958.000 | 50.0 | 33.3 | 6.2 | 36.1 | 53.4 | 74.0 | -20.6 | PEAK |
| 4958.000 | 37.1 | 33.3 | 6.2 | 36.1 | 40.5 | 54.0 | -13.5 | AVERAG |

Remark:

- 1). According to 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 2) Sweep from 30MHz to 25GHz, find the max radiated emissions and record it, when the emissions are too weak to be detected, it will not be reported.

TEST RESULTS: The unit does meet the FCC requirements.



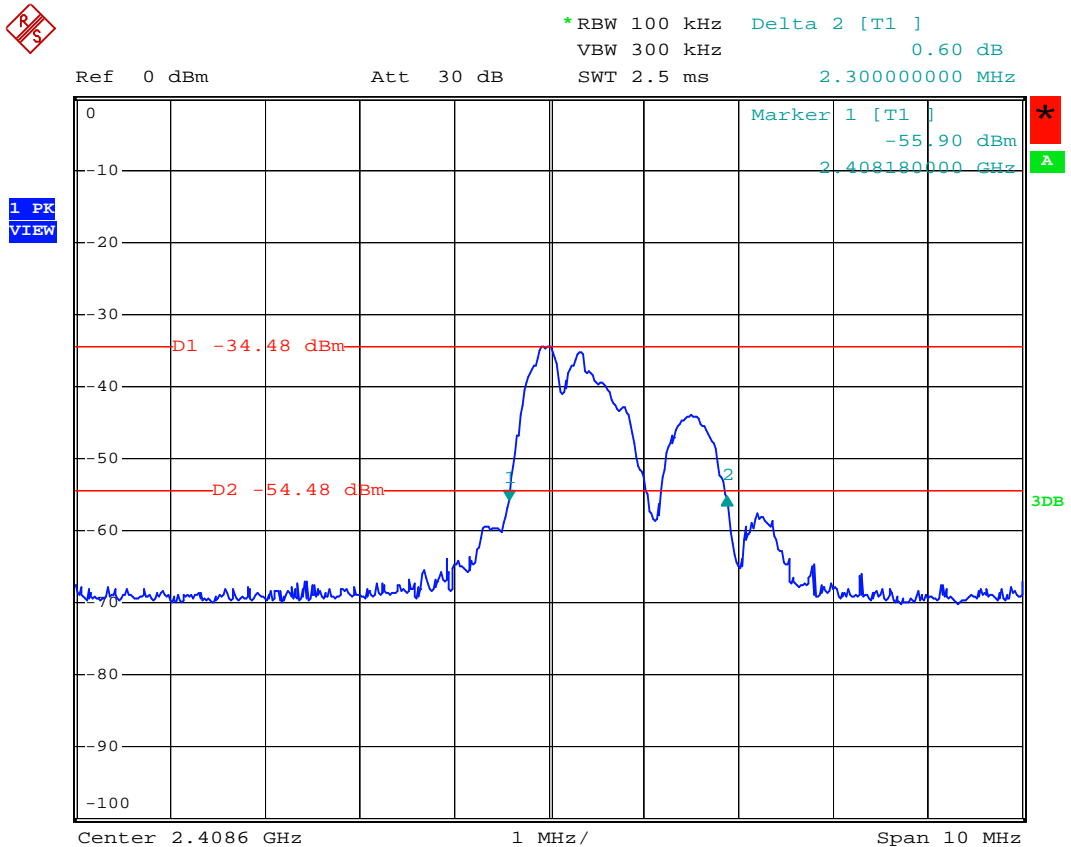
6.2.2 Occupied Bandwidth & Band Edge

Test Requirement: FCC Part 15 C Section 15.249
 Test Method: ANSI C63.4 and FCC Part 2.1049
 Operation within the band 2400-2483.5MHz
 Test Date: 12 March 2008
 Requirements: 15.249 (d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.
 Method of measurement: A small sample of the transmitter output was fed into the Spectrum Analyzer and the attached plot was taken.

For Host:

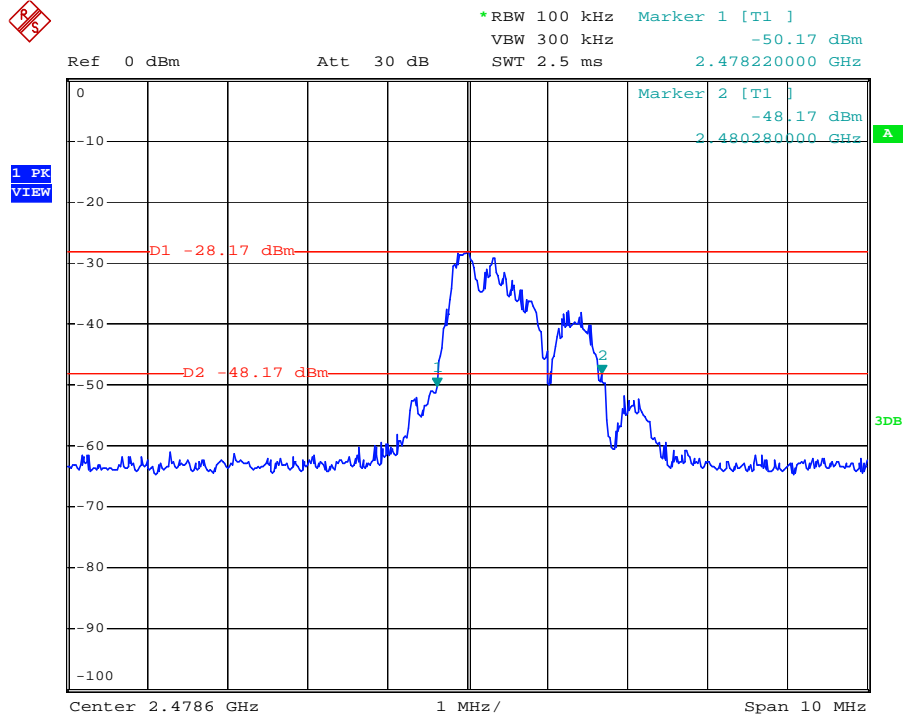
The occupied bandwidth as below:

Lowest Channel:2409MHz:



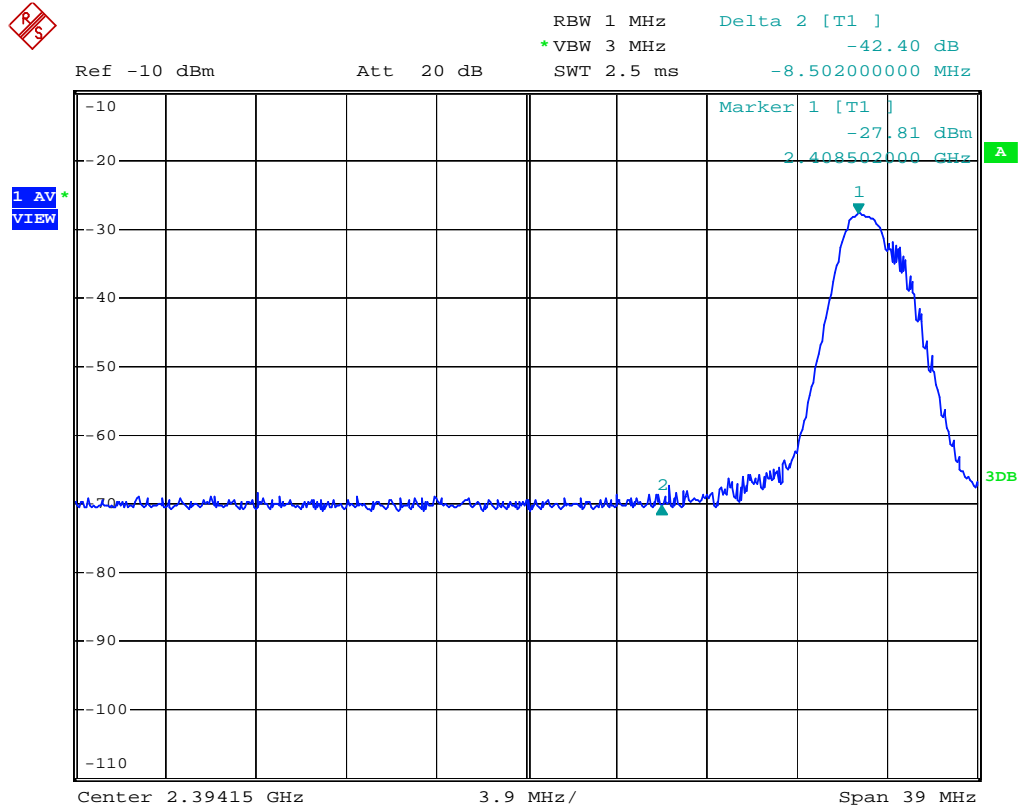


Highest Channel 2479MHz:





Detector mode:Average

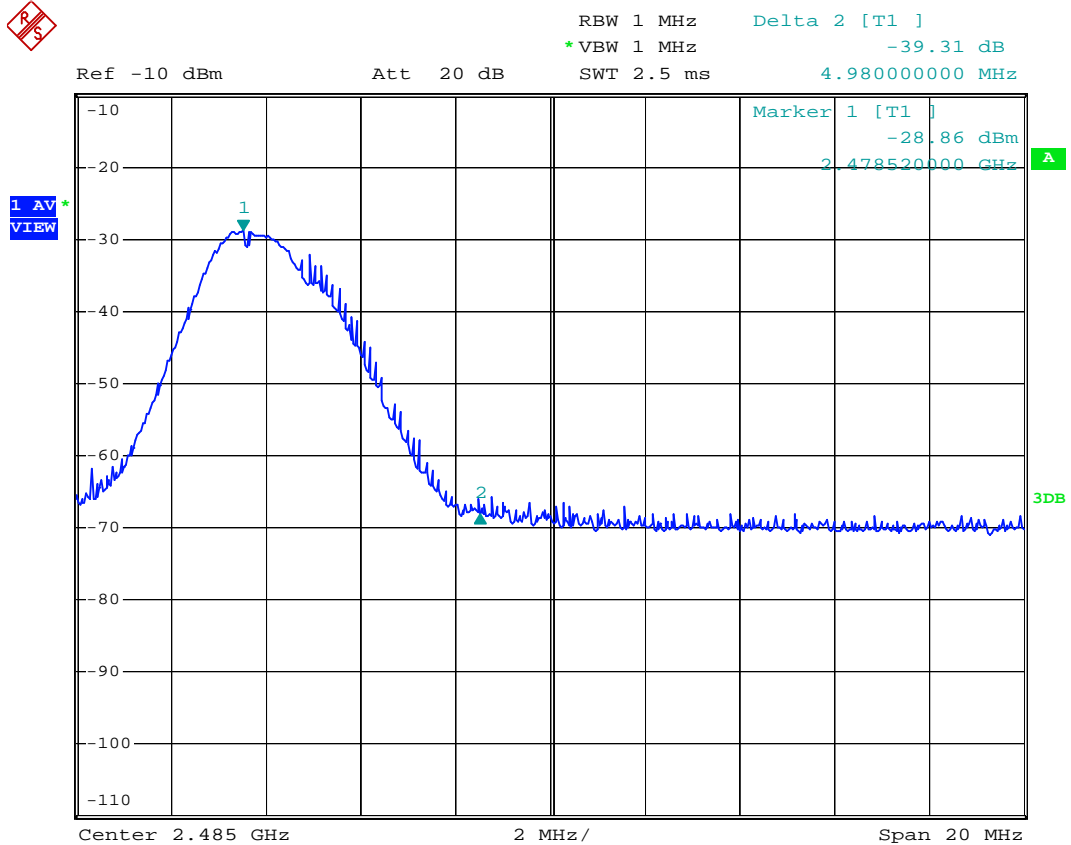


For 2400MHz bandedge checked with 2409MHz frequency operated,the delta shown at the plots are 27.7dB for peak detector mode and 42.4dB for Average detector mode.

With the peak value 98.7dBuV/m and average value at 75.6dBuV/m presented at the report 11 for the fundamental, the spurious emission level at 2400MHz were 71.0dBuV/m for peak and 33.2dBuV/m for average.



Detector mode:Average



For 2483.5MHz bandedge checked with 2479MHz frequency operated,the delta shown at the plots are 26.5dB for peak detector mode and 39.3dB for Average detector mode.

With the peak value 98.8dBuV/m and average value at 79.6dBuV/m presented at the report 12 for the fundamental, the spurious emission level at 2483.5MHz were 72.3dBuV/m for peak and 40.3dBuV/m for average.

The test result for the Emissions radiated outside of the specified frequency bands , please refer to the section 5.3.1 of this report.

The results: The unit does meet the FCC requirements.

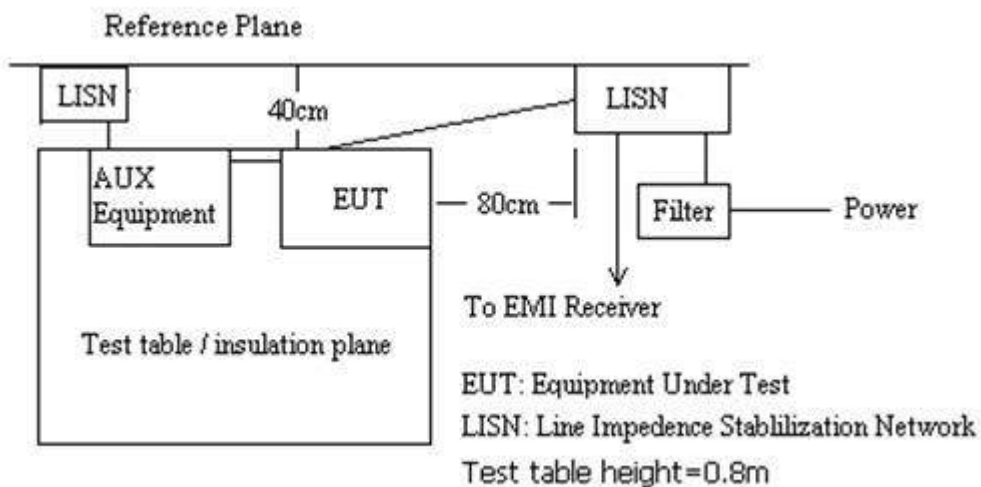
6.2.3 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15.207
 Test Method: ANSI C63.4
 Test Date: March 31 2008
 Frequency Range: 150KHz to 30MHz
 Detector: Peak for pre-scan (9kHz Resolution Bandwidth)
 Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

6.2.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.0 °C Humidity: 50% RH Atmospheric Pressure: 1005 mbar
 EUT Operation: Test the Host in transmitting mode. Pretest in lowest, middle, highest channel transmitting status to find the worst case to reported.

6.2.3.2 Plan View of Test Setup



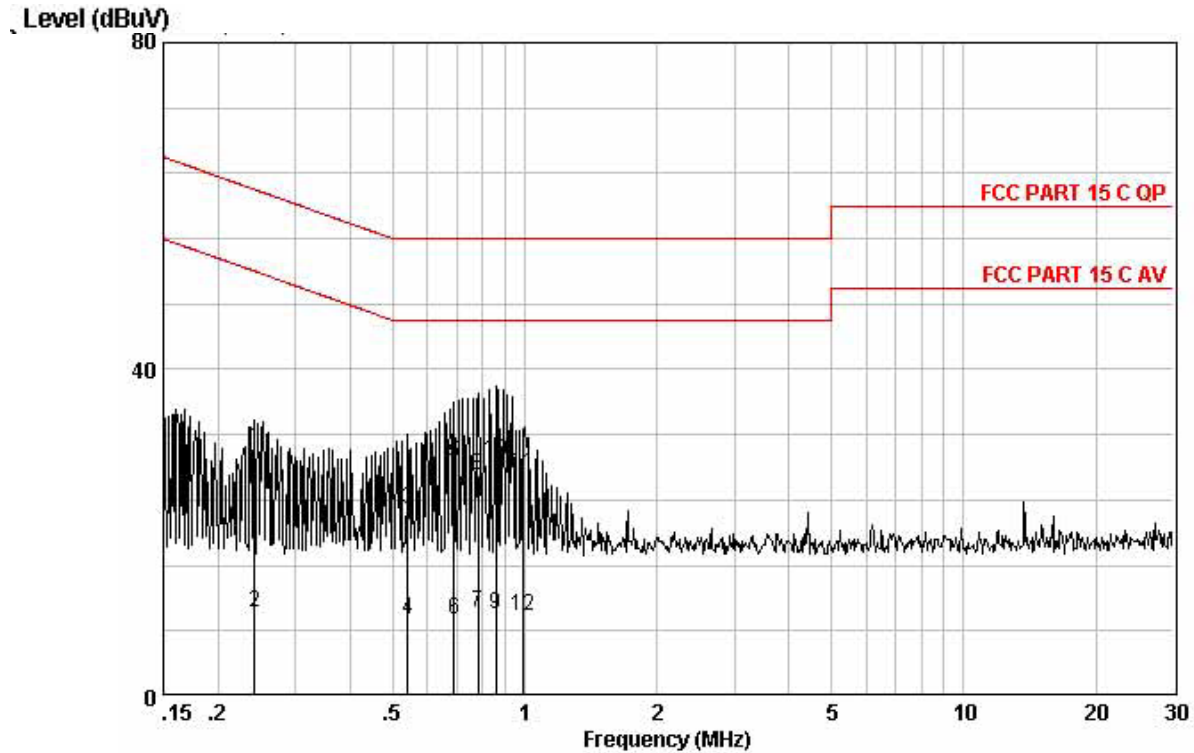
6.2.3.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.
 Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
 The following Quasi-Peak and Average measurements were performed on the EUT in middle channel transmitting status (worst case):



Live Line:

Peak Scan:



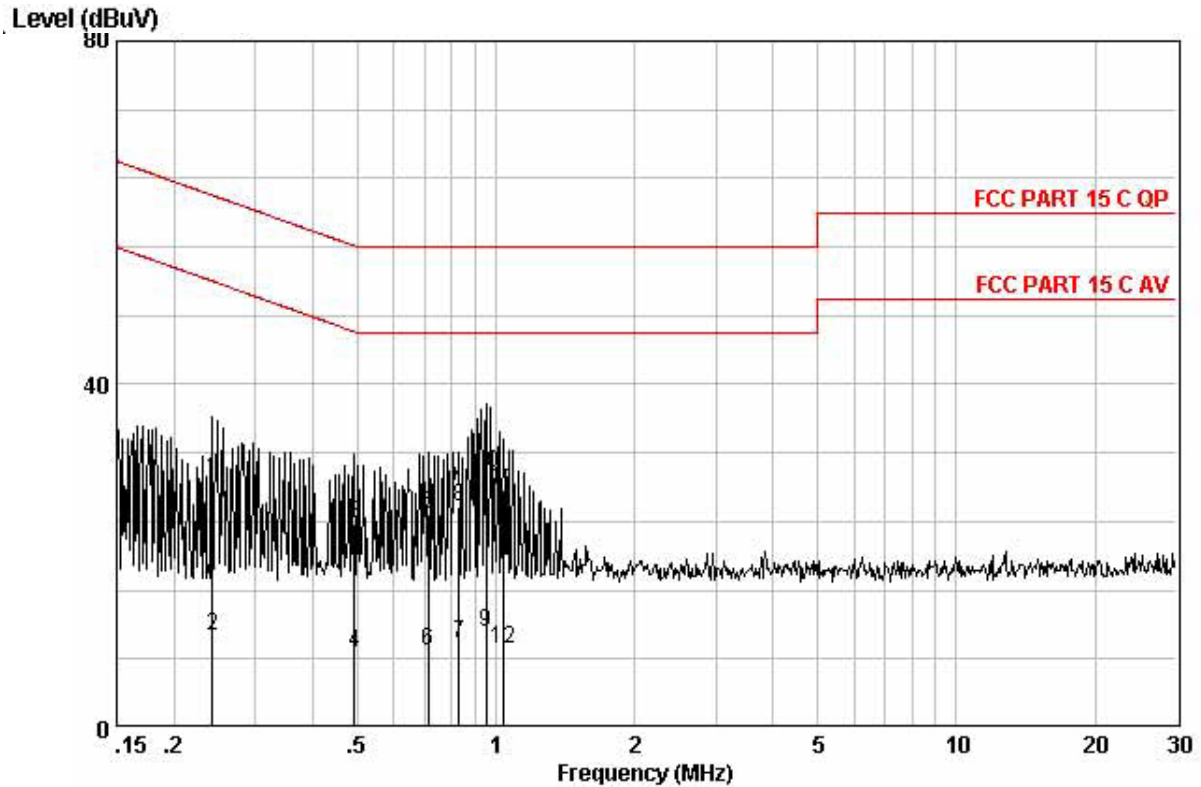
Quasi-peak and Average measurement:

| Read Freq | Read Level | Cable Loss | LISN Factor | Level | Limit Line | Over Limit | Remark |
|-----------|------------|------------|-------------|-------|------------|------------|---------|
| MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 0.242 | 20.40 | 0.00 | 9.88 | 30.28 | 62.04 | -31.76 | QP |
| 0.242 | 0.30 | 0.00 | 9.88 | 10.18 | 52.04 | -41.86 | AVERAGE |
| 0.541 | 13.02 | 0.00 | 9.93 | 22.95 | 56.00 | -33.05 | QP |
| 0.541 | -0.48 | 0.00 | 9.93 | 9.45 | 46.00 | -36.55 | AVERAGE |
| 0.690 | 18.74 | 0.00 | 9.88 | 28.62 | 56.00 | -27.38 | QP |
| 0.690 | -0.55 | 0.00 | 9.88 | 9.33 | 46.00 | -36.67 | AVERAGE |
| 0.783 | 0.44 | 0.00 | 9.85 | 10.29 | 46.00 | -35.71 | AVERAGE |
| 0.783 | 17.28 | 0.00 | 9.85 | 27.13 | 56.00 | -28.87 | QP |
| 0.857 | 0.10 | 0.00 | 9.83 | 9.93 | 46.00 | -36.07 | AVERAGE |
| 0.857 | 18.84 | 0.00 | 9.83 | 28.67 | 56.00 | -27.33 | QP |
| 0.994 | 17.40 | 0.00 | 9.79 | 27.19 | 56.00 | -28.81 | QP |
| 0.994 | -0.04 | 0.00 | 9.79 | 9.75 | 46.00 | -36.25 | AVERAGE |



Neutral Line

Peak Scan:



Quasi-peak and Average measurement:

| Freq | Read Level | Cable Loss | LISN Factor | Level | Limit Line | Over Limit | Remark |
|-------|------------|------------|-------------|-------|------------|------------|---------|
| MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 0.242 | 19.14 | 0.00 | 9.89 | 29.03 | 62.04 | -33.01 | QP |
| 0.242 | 0.77 | 0.00 | 9.89 | 10.66 | 52.04 | -41.38 | AVERAGE |
| 0.491 | 13.82 | 0.00 | 9.94 | 23.76 | 56.14 | -32.38 | QP |
| 0.491 | -1.17 | 0.00 | 9.94 | 8.77 | 46.14 | -37.37 | AVERAGE |
| 0.712 | 15.06 | 0.00 | 9.88 | 24.94 | 56.00 | -31.06 | QP |
| 0.712 | -0.86 | 0.00 | 9.88 | 9.02 | 46.00 | -36.98 | AVERAGE |
| 0.830 | -0.04 | 0.00 | 9.85 | 9.81 | 46.00 | -36.19 | AVERAGE |
| 0.830 | 15.84 | 0.00 | 9.85 | 25.69 | 56.00 | -30.31 | QP |
| 0.953 | 1.21 | 0.00 | 9.83 | 11.04 | 46.00 | -34.96 | AVERAGE |
| 0.953 | 19.80 | 0.00 | 9.83 | 29.63 | 56.00 | -26.37 | QP |
| 1.037 | 17.78 | 0.00 | 9.82 | 27.60 | 56.00 | -28.40 | QP |
| 1.037 | -0.63 | 0.00 | 9.82 | 9.19 | 46.00 | -36.81 | AVERAGE |

End of report