



FCC TEST REPORT

for

Infinite Play Controller
MODEL: F-PS3-G7789LVS, G7789

Test Report Number:
SZ080901B11-RP

Issued for

Shenzhen Litestar Electronics Technology CO.,LTD
Xinghong Science & Technology Park, Fenghuanggang 1st Industrial
Zone, Xixiang, Bao'an District, Shenzhen, China

Issued by:

COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC.
(aka Compliance Engineering Service (China))

NO. 5, JINAO INDUSTRIAL PARK, NO. 35 JUKENG ROAD,
DASHUIKENG VILLAGE, GUANLAN TOWN, BAOAN
DISTRICT, SHENZHEN, CHINA

TEL: 86-755-28055000

FAX: 86-755-28055221

Issued Date: September 28, 2008



Note: *This report shall not be reproduced except in full, without the written approval of Compliance Certification Services Inc. This document may be altered or revised by Compliance Certification Services Inc. personnel only, and shall be noted in the revision section of the document. The client should not use it to claim product endorsement by TAF, A2LA, NVLAP, NIST or any government agencies. The test results in the report only apply to the tested sample.*



Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 28, 2008	Initial Issue	ALL	Clinton Kao



TABLE OF CONTENTS

1 TEST CERTIFICATION	4
2 EUT DESCRIPTION.....	5
3 TEST METHODOLOGY.....	6
3.1. DESCRIPTION OF TEST MODES	6
4 TEST METHODOLOGY.....	7
4.1. EUT EXERCISE	7
4.2. FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS	7
5 INSTRUMENT CALIBRATION	8
6 SETUP OF EQUIPMENT UNDER TEST	8
6.1. DESCRIPTION OF SUPPORT UNITS.....	8
6.2. CONFIGURATION OF SYSTEM UNDER TEST	8
7 FACILITIES AND ACCREDITATIONS	9
7.1. FACILITIES	9
7.2. ACCREDITATIONS	9
7.3. MEASUREMENT UNCERTAINTY.....	9
8 FCC PART 15.249 REQUIREMENTS	10
8.1. BAND EDGES MEASUREMENT.....	10
8.2. POWER LINE CONDUCTED EMISSIONS MEASUREMENT	16
8.3. SPURIOUS EMISSIONS MEASUREMENT.....	20



1 TEST CERTIFICATION

Product: Infinite Play Controller**Model:** F-PS3-G7789LVS, G7789**Brand:** N/A**Tested:** September 01-28, 2008**Applicant:** Shenzhen Litestar Electronics Technology CO.,LTDXinghong Science & Technology Park, Fenghuanggang 1st Industrial Zone, Xixiang,
Bao'an District, Shenzhen, China**Manufacturer:** Shenzhen Litestar Electronics Technology CO.,LTDXinghong Science & Technology Park, Fenghuanggang 1st Industrial Zone, Xixiang,
Bao'an District, Shenzhen, China**Buyer:** INTEC INC.

7600 CORPORATE CENTER DRIVE, SUITE 400 MIAMI, FL 33126

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C	No non-compliance noted
DEVIATION FROM APPLICABLE STANDARD	
None	

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.249.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Clinton Kao
Manager
Compliance Certification Service Inc.**Reviewed by:**

Vincent Yao
Assistant manager
Compliance Certification Service Inc.



2 EUT DESCRIPTION

Product	Infinite Play Controller
Trade Name	N/A
Model Number	F-PS3-G7789LVS, G7789
Model Discrepancy	All models are identical to each other except for market designation for marketing purpose.
Serial Number	N/A
Power Supply	DC5V powered from host device
Frequency Range	2402-2480 MHz
Transmit Power	96.75 dBuV/m (Max.)
Modulation Technique	GFSK
Number of Channels	79 Channel
Antenna Specification	PCB Antenna Gain: 4.0dBi (Max)

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. This submittal(s) (test report) is intended for FCC ID: SBIRFPS3 filing to comply with Section 15.207, 15.209 and 15.249 of the FCC Part 15, Subpart C Rules.



3 TEST METHODOLOGY

3.1. DESCRIPTION OF TEST MODES

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only, and power line conducted emission below 30MHz, which worst case was in normal link mode with charging only.

Channel Low (2402MHz), Channel Mid (2440MHz) and Channel High (2480MHz) were chosen for the final testing.



4 TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.249.

4.1. EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.107 and 15.109 under the FCC Rules Part 15 Subpart B and Section 15.207, 15.209, 15.249 under the FCC Rules Part 15 Subpart C.

4.2. FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

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

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

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

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



5 INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

6 SETUP OF EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	Playstation 3	CECHA12	02-27430191-9887932	FCC	SONY	Un-shielded, 1.50m	Un-shielded, 1.80m
2	TV	CK15F1	62620051	FCC	Sanyo	N/A	Unshielded 1.5m
3	Infinite Play Controller (Transmitter)	F-PS3-G7789LV S	N/A	SBIH7789LVS	N/A	N/A	N/A

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.2. CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

7 FACILITIES AND ACCREDITATIONS

7.1. FACILITIES

All measurement facilities used to collect the measurement data are located at

☒ **No. 5, Jinao industrial park, No.35 Jukeng Road, Dashuikeng Village, Guanlan Town, Baoan District, Shenzhen, China**

The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

7.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA	FCC
Japan	VCCI
Canada	INDUSTRY CANADA
Taiwan	BSMI

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsemc.com.tw>

7.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETR 028:

Measurement	Frequency		Uncertainty
Conducted emissions	9kHz~30MHz		± 3.5863
Radiated emissions	Horizontal	30MHz ~ 200MHz	± 4.7685
		200MHz ~1000MHz	± 4.9330
	Vertical	30MHz ~ 200MHz	± 5.0411
		200MHz ~1000MHz	± 4.9262

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



8 FCC PART 15.249 REQUIREMENTS

8.1. BAND EDGES MEASUREMENT

LIMIT

1. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength ($\mu\text{V}/\text{m}$ at 3-meter)	Field Strength (dB $\mu\text{V}/\text{m}$ at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

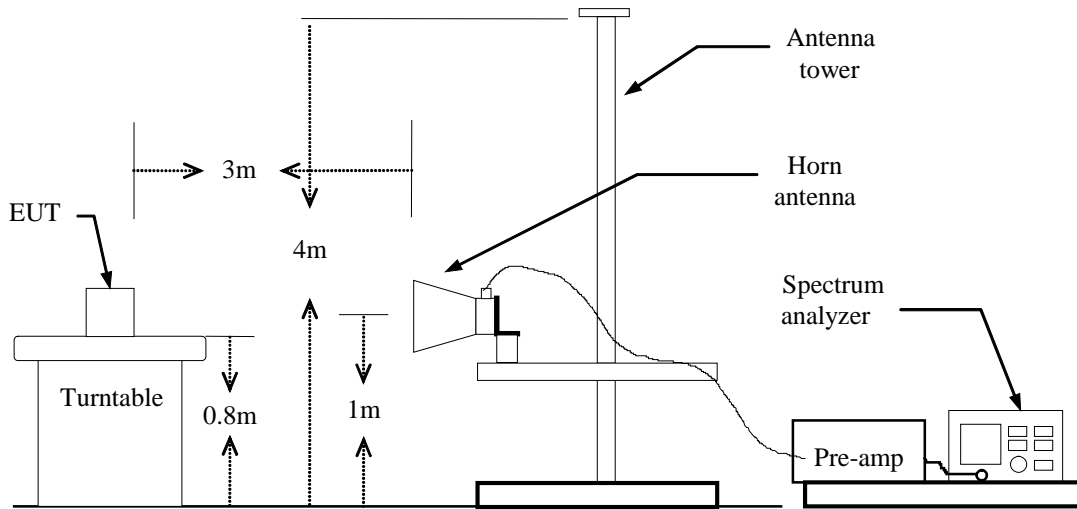
2. As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.
3. As shown in Section 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.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	02/24/2009

Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

TEST RESULTS

Refer to attach spectrum analyzer data chart.



Test Data

Band Edges (CH-Low)

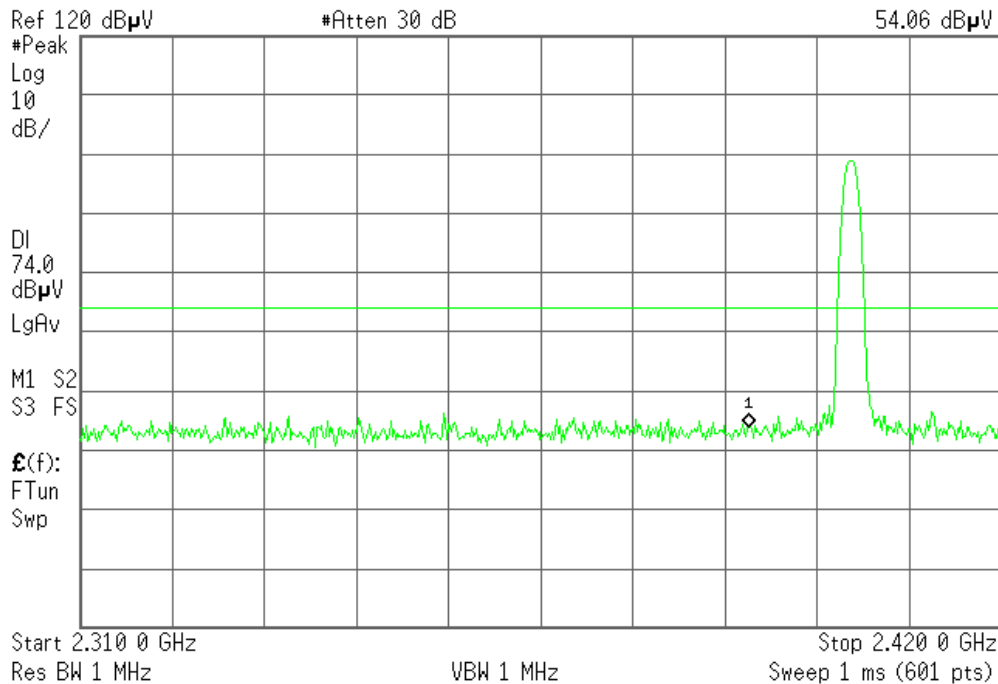
Detector mode: Peak

Polarity: Vertical

Agilent 16:28:49 Sep 13, 2008

R T

Mkr1 2.390 0 GHz
54.06 dBμV



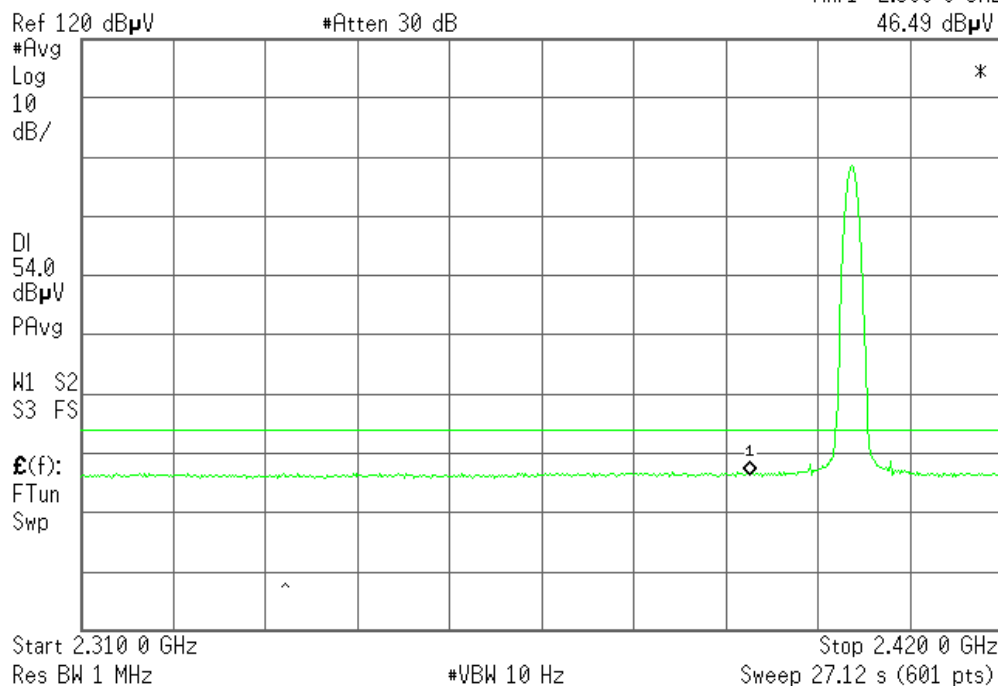
Detector mode: Average

Polarity: Vertical

Agilent 16:31:09 Sep 13, 2008

R T

Mkr1 2.390 0 GHz
46.49 dBμV



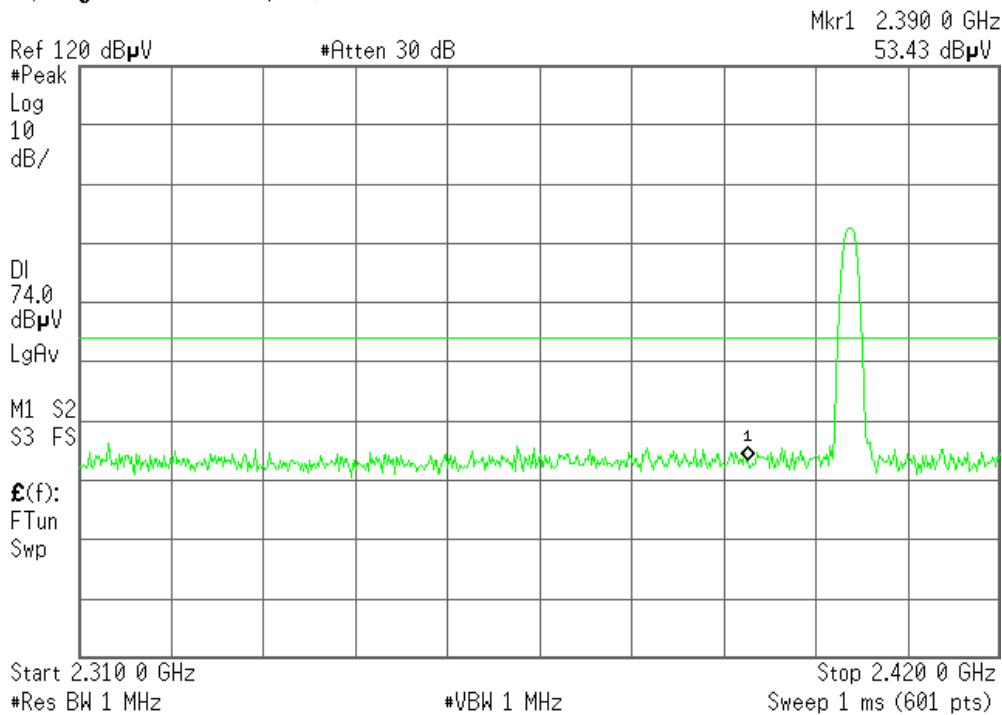


Detector mode: Peak

Polarity: Horizontal

Agilent 17:08:09 Sep 13, 2008

R T

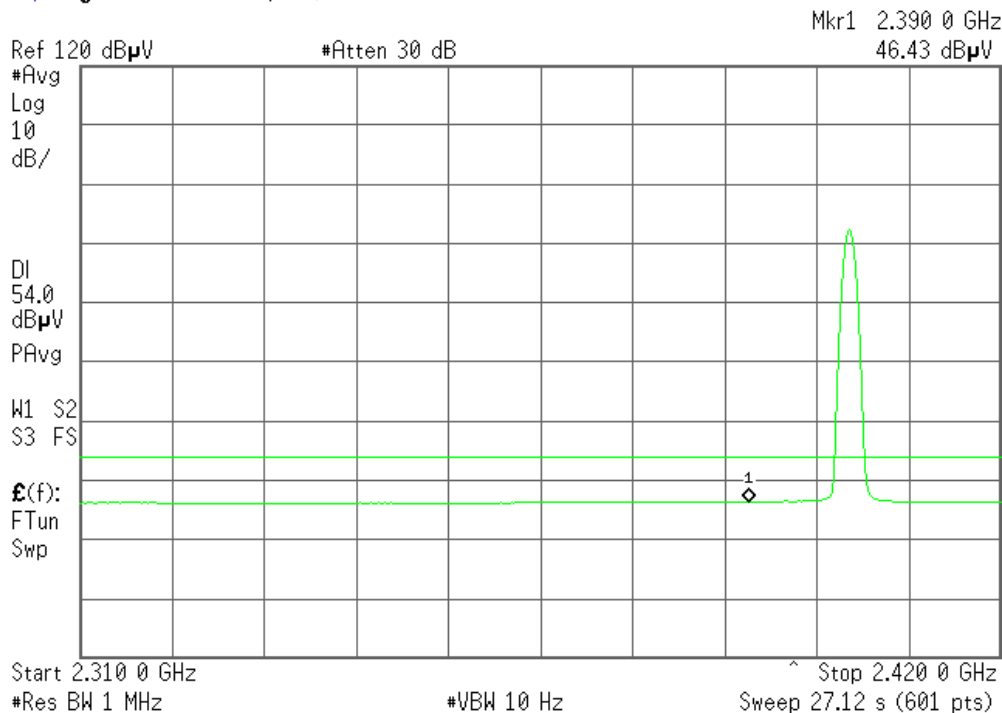


Detector mode: Average

Polarity: Horizontal

Agilent 17:09:19 Sep 13, 2008

R T





Band Edges (CH-High)

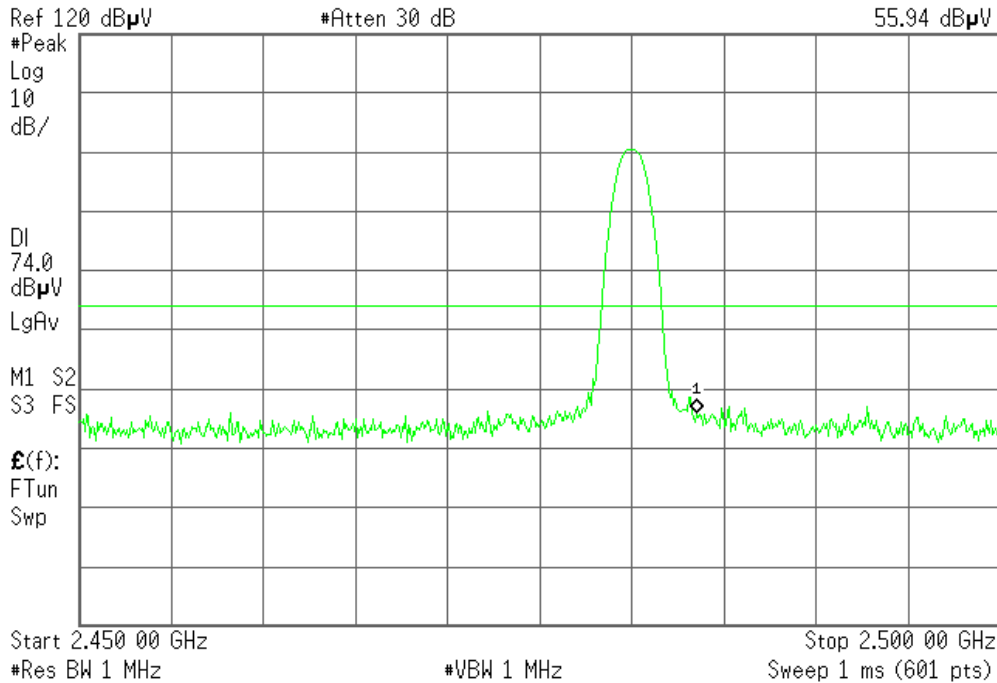
Detector mode: Peak

Polarity: Vertical

Agilent 21:11:11 Sep 16, 2008

R T

Mkr1 2.483 50 GHz
55.94 dBμV



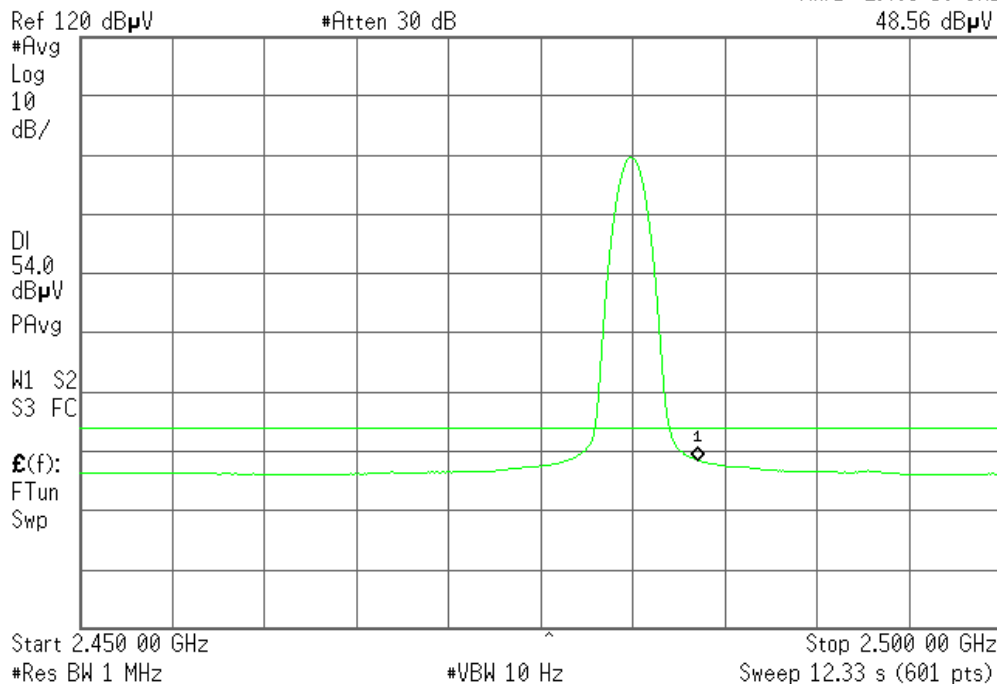
Detector mode: Average

Polarity: Vertical

Agilent 21:12:24 Sep 16, 2008

R T

Mkr1 2.483 50 GHz
48.56 dBμV





Detector mode: Peak

Polarity: Horizontal

* Agilent 21:18:52 Sep 16, 2008

R T

Mkr1 2.483 50 GHz
55.44 dB μ V

Ref 120 dB μ V

*Atten 30 dB

#Peak

Log

10

dB/

DI

74.5

dB μ V

LgAv

M1 S2

S3 FS

E(f):

FTun

Swp

Start 2.450 00 GHz

*Res BW 1 MHz

VBW 1 MHz

Stop 2.500 00 GHz

Sweep 1 ms (601 pts)

Detector mode: Average

Polarity: Horizontal

* Agilent 21:16:06 Sep 16, 2008

R T

Mkr1 2.483 50 GHz
47.03 dB μ V

Ref 120 dB μ V

*Atten 30 dB

#Avg

Log

10

dB/

DI

54.0

dB μ V

PAvg

M1 S2

S3 FC

E(f):

FTun

Swp

Start 2.450 00 GHz

*Res BW 1 MHz

*VBW 10 Hz

Stop 2.500 00 GHz

Sweep 12.33 s (601 pts)



8.2. POWER LINE CONDUCTED EMISSIONS MEASUREMENT

8.2.1. LIMITS OF CONDUCTED EMISSIONS MEASUREMENT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

TEST INSTRUMENTS

Conducted Emission Test Site G				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100088	02/24/2009
LISN	EMCO	3825/2	1371	02/24/2009
LISN	EMCO	3825/2	8901-1459	02/24/2009

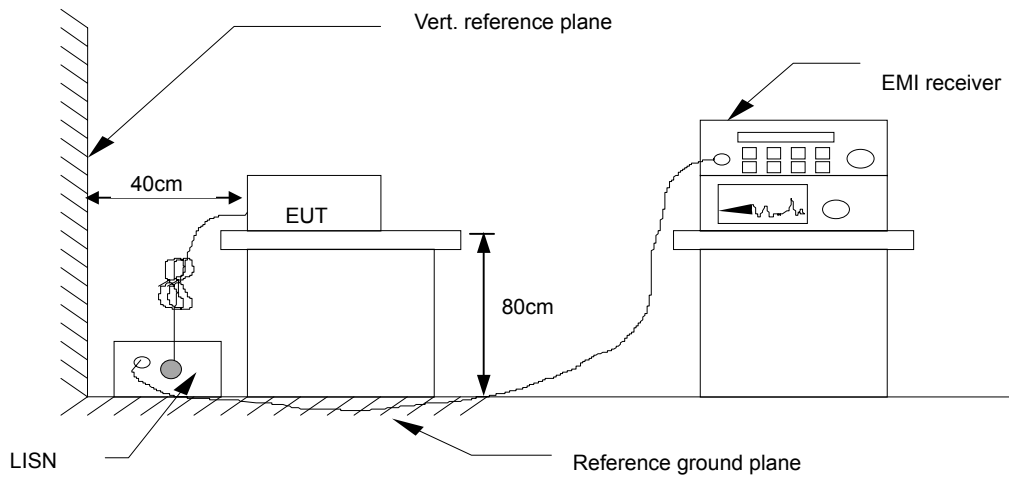
- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.



8.2.2. TEST PROCEDURES (please refer to measurement standard)

- The EUT and Support equipment, if needed, was placed on a non-conducted table, which is 0.8m above the ground plane and 0.4m away from the conducted wall.
- The test equipment EUT installed received AC main power, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane. All support equipment power received from a second LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The frequency range from 150 kHz to 30 MHz was searched. The test data of the worst-case condition(s) was recorded. Emission levels under limit 20dB were not recorded.

8.2.3. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

8.2.4. Data Sample:

Freq. (MHz)	Q.P. Raw (dBuV)	Average Raw (dBuV)	Q.P. Limit (dBuV)	Average Limit (dBuV)	Q.P. Margin (dB)	Average Margin (dB)	Note
x.xx	43.95	33.00	56.00	46.00	-12.05	-13.00	L1

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer/Receiver reading
 Correction factor (dB) = Insertion loss of LISN
 Limit (dBuV) = Limit stated in standard
 Margin (dB) = Reading (dBuV) – Limit (dBuV)
 Note = Current carrying line of reading

**8.2.5. TEST RESULTS**

Test No.	F-PS3-G7789LVS	Test Mode	Normal Link
Environmental Conditions	27deg.C,55% RH, 992 hPa	6dB BANDWIDTH	9 kHz
Tested by:	Breeze Jiang		

FREQ MHz	PEAK RAW dBuV	Q.P. RAW dBuV	AVG RAW dBuV	Q.P. Limit dBuV	AVG Limit dBuV	Q.P. Margin dB	AVG Margin dB
0.205	45.23	---	---	64.41	54.41	---	-9.18
0.294	40.31	---	---	61.87	51.87	---	-11.56
0.517	42.45	---	---	56.00	46.00	---	-3.55
1.032	43.69	---	---	56.00	46.00	---	-2.31
1.239	42.06	---	---	56.00	46.00	---	-3.94
2.480	41.26	---	---	56.00	46.00	---	-4.74
0.205	45.34	---	---	64.41	54.41	---	-9.07
0.517	41.11	---	---	56.00	46.00	---	-4.89
0.620	41.12	---	---	56.00	46.00	---	-4.88
1.032	42.43	---	---	56.00	46.00	---	-3.57
2.064	41.46	---	---	56.00	46.00	---	-4.54
3.723	38.56	---	---	56.00	46.00	---	-7.44

REMARKS: L1 = Line One (Live Line) / L2 = Line Two (Neutral Line)



8.3. SPURIOUS EMISSIONS MEASUREMENT

8.3.1. LIMITS OF RADIATED EMISSIONS MEASUREMENT

1. In the section 15.249(a):

Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency	Field Strength of Fundamental Field Strength (mV/m)	Field Strength of Harmonics (μ V/m)
902-928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500
24.0 - 24.25 GHz	250	2500

2. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

3. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (μ V/m at 3-meter)	Field Strength (dB μ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

**8.3.2. TEST INSTRUMENTS**

966 RF CHAMBER 2				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US44300399	02/24/2009
EMI Test Receiver	R&S	ESCI	1166.5950 03	01/13/2009
Pre-Amplifier	MITEQ	N/A	AFS42-00102650-42-10 P-42	02/14/2009
Bilog Antenna	SCHWAZBECK	CBL6143	5082	06/09/2009
Turn Table	EMCO	2081-1.21	N/A	N.C.R
Antenna Tower	CT	N/A	N/A	N.C.R
Controller	CT	N/A	N/A	N.C.R
RF Comm. Test set	HP	8920B	US36142090	N.C.R
Site NSA	C&C	N/A	N/A	06/09/2009
Horn Antenna	TRC	TRC0301	100204	03/04/2009
Signal Generator	Anritsu	MG3694A	#050125	02/24/2009
Loop Antenna	ARA	PLA-1030/B	1029	02/24/2009

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The FCC Site Registration number is 101879.

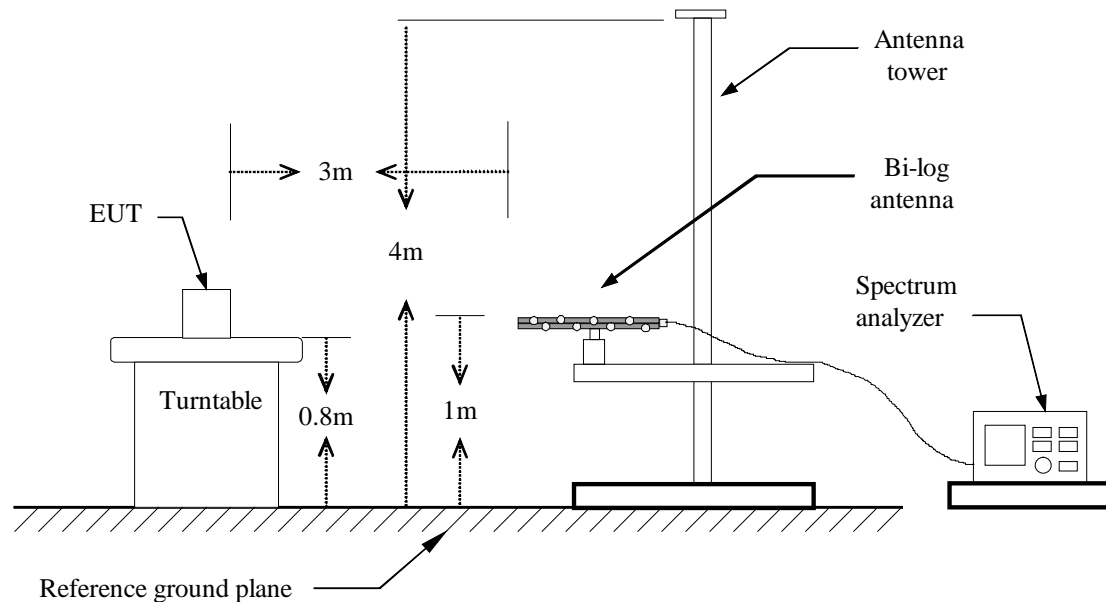
4. N.C.R = No Calibration Required.

8.3.3 TEST PROCEDURE (please refer to measurement standard)

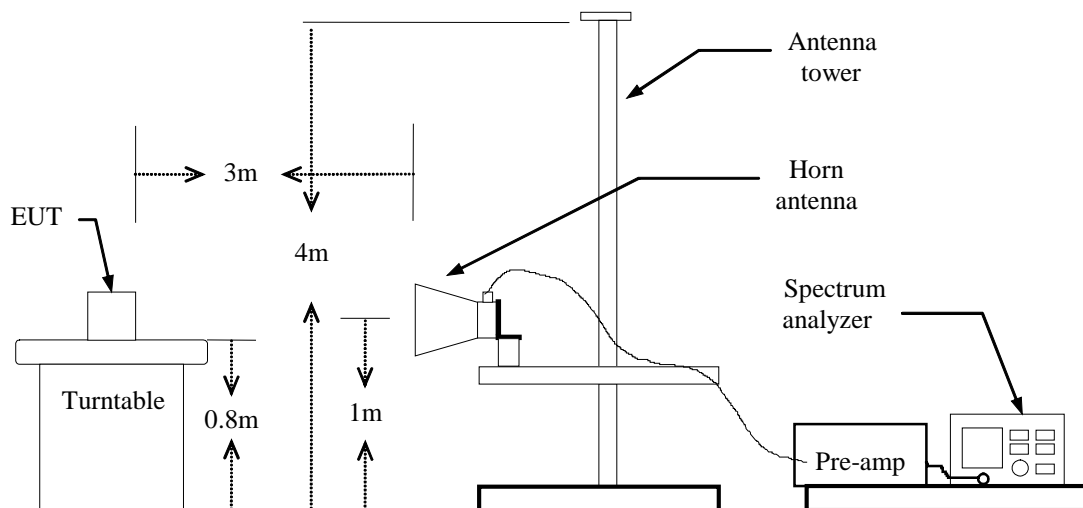
1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:
Below 1GHz:
RBW=100kHz / VBW=300kHz / Sweep=AUTO
Above 1GHz:
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

8.3.2.1. TEST SETUP

Below 1 GHz



Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

**8.3.2.2. Data Sample:****Below 1 GHz**

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Remark) (dBuV)	Correction Factor (dB/m)	Result (Remark) (dBuV/m)	Limit (Peak) (dBuV/m)	Margin (dB)	Remark
xxx	V	12.12	10.21	22.33	40.00	-17.67	Peak

Above 1 GHz

Frequency (MHz)	Ant.Pol. (H/V)	Reading (Peak) (dBuV)	Reading (Average) (dBuV)	Correction Factor (dB/m)	Result (Peak) (dBuV/m)	Result (Average) (dBuV/m)	Limit (Peak) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark
xxx	V	65.45	63.00	-11.12	54.33	51.88	74.00	54.00	-2.12	AVG

Frequency (MHz) = Emission frequency in MHz
Ant.Pol. (H/V) = Antenna polarization
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Remark Result (dBuV/m) – Limit (dBuV/m)
Peak = Peak Reading
QP = Quasi-peak Reading
AVG = Average Reading

**8.3.2.3. TEST RESULTS****Below 1 GHz****Operation Mode:** Normal Link**Test Date:** September 12, 2008**Temperature:** 27°C**Tested by:** Breeze Jiang**Humidity:** 55 % RH**Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
70.950	V	Peak	45.03	-20.04	24.99	40.00	-15.01
120.000	V	Peak	43.22	-19.57	23.65	43.50	-19.85
158.250	V	Peak	46.54	-19.05	27.49	43.50	-16.01
192.000	V	Peak	47.41	-17.77	29.64	43.50	-13.86
280.650	V	Peak	47.68	-15.03	32.65	46.00	-13.35
335.000	V	Peak	40.86	-13.84	27.02	46.00	-18.98
59.700	H	Peak	41.06	-19.57	21.49	40.00	-18.51
80.850	H	Peak	41.42	-19.92	21.50	40.00	-18.50
132.150	H	Peak	45.06	-19.50	25.56	43.50	-17.94
203.700	H	Peak	44.41	-17.29	27.12	43.50	-16.38
287.850	H	Peak	45.99	-14.78	31.21	46.00	-14.79
391.000	H	Peak	40.80	-11.70	29.10	46.00	-16.90

****Note:** No emission found between lowest internal used/generated frequency to 30 MHz.

REMARKS:

1. Measuring frequencies from 30 MHz to the 1GHz.
2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.
3. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit or as required by the applicant.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).

**Above 1 GHz****Operation Mode:** TX / CH Low**Test Date:** September 12, 2008**Temperature:** 27°C**Tested by:** Breeze Jiang**Humidity:** 55% RH**Polarity:** Ver. / Hor.**Fundamental**

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)				
2402	V	98.24	90.93	-3.86	94.38	87.07	114	94	-19.62	-6.93
2402	H	90.77	79.83	-3.86	86.91	75.97	114	94	-27.09	-18.03

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1260.00	V	54.96	---	-10.74	44.22	---	74.00	54.00	-9.78	Peak
1446.66	V	55.32	---	-9.71	45.61	---	74.00	54.00	-8.39	Peak
3366.66	V	47.39	---	-1.27	46.12	---	74.00	54.00	-7.88	Peak
3916.66	V	46.60	---	1.22	47.82	---	74.00	54.00	-6.18	Peak
N/A										
1306.66	H	55.43	---	-10.48	44.95	---	74.00	54.00	-9.05	Peak
1450.00	H	55.16	---	-9.70	45.46	---	74.00	54.00	-8.54	Peak
3200.00	H	46.94	---	-2.44	44.50	---	74.00	54.00	-9.50	Peak
3883.33	H	47.09	---	0.58	47.67	---	74.00	54.00	-6.33	Peak
N/A										

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX / CH Mid**Test Date:** September 12, 2008**Temperature:** 27°C**Tested by:** Breeze Jiang**Humidity:** 55% RH**Polarity:** Ver. / Hor.**Fundamental**

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)				
2440	V	100.17	87.27	-3.72	96.45	83.55	114	94	-17.55	-10.45
2440	H	91.22	77.20	-3.72	87.50	73.48	114	94	-26.50	-20.52

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1250.00	V	55.25	---	-10.79	44.46	---	74.00	54.00	-9.54	Peak
1433.33	V	55.39	---	-9.79	45.60	---	74.00	54.00	-8.40	Peak
4391.66	V	45.12	---	2.02	47.14	---	74.00	54.00	-6.86	Peak
5083.33	V	44.95	---	3.27	48.22	---	74.00	54.00	-5.78	Peak
N/A										
1280.00	H	55.35	---	-10.63	44.72	---	74.00	54.00	-9.28	Peak
1433.33	H	54.92	---	-9.79	45.13	---	74.00	54.00	-8.87	Peak
4233.33	H	44.64	---	1.87	46.51	---	74.00	54.00	-7.49	Peak
4458.33	H	44.14	---	2.08	46.22	---	74.00	54.00	-7.78	Peak
N/A										

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX / CH High**Test Date:** September 12, 2008**Temperature:** 27°C**Tested by:** Breeze Jiang**Humidity:** 55 % RH**Polarity:** Ver. / Hor.**Fundamental**

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Peak Margin (dB)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)				
2480	V	100.31	88.73	-3.56	96.75	85.17	114	94	-17.25	-8.83
2480	H	91.25	78.23	-3.56	87.69	74.67	114	94	-26.31	-19.33

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1250.00	V	55.11	---	-10.79	44.32	---	74.00	54.00	-9.68	Peak
1353.33	V	54.84	---	-10.23	44.61	---	74.00	54.00	-9.39	Peak
4708.33	V	44.92	---	2.48	47.40	---	74.00	54.00	-6.60	Peak
4875.00	V	44.71	---	2.77	47.48	---	74.00	54.00	-6.52	Peak
N/A										
1203.33	H	55.73	---	-11.05	44.68	---	74.00	54.00	-9.32	Peak
1376.66	H	54.77	---	-10.10	44.67	---	74.00	54.00	-9.33	Peak
3458.33	H	55.92	54.09	-2.90	53.02	51.19	74.00	54.00	-2.81	AVG.
3516.66	H	55.86	53.90	-2.82	53.04	51.08	74.00	54.00	-2.92	AVG.
N/A										

REMARKS:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).