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# FCC DoC TEST REPORT

**REPORT NO. :** FD990903E02

**MODEL NO. :** AR5BUB173

**RECEIVED :** Sep. 02, 2010

**TESTED :** Sep. 24 to Oct. 01, 2010

**ISSUED:** Oct. 11, 2010

**APPLICANT :** Atheros Communications, Inc.

**ADDRESS :** 1700 Technology Drive, San Jose, CA 95110

**ISSUED BY :** Bureau Veritas Consumer Products Services (H.K.)  
Ltd., Taoyuan Branch Hsin Chu Laboratory

**LAB ADDRESS :** No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,  
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Lin Hsiang, Hsin Chu Hsien 307, Taiwan

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## 1 CERTIFICATION

**PRODUCT :** 1X1 single band 802.11b/g/n USB module  
**BRAND NAME :** Atheros  
**MODEL NO. :** AR5BUB173  
**TESTED :** Sep. 24 to Oct. 01, 2010  
**TEST SAMPLE :** R&D SAMPLE  
**APPLICANT :** Atheros Communications, Inc.  
**STANDARDS :** FCC Part 15, Subpart B, Class B  
ANSI C63.4-2003

The above equipment (Model: AR5BUB173) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Sunny Wen , **DATE:** Oct. 11, 2010  
( Sunny Wen, Specialist )

**TECHNICAL ACCEPTANCE :** Hank Chung , **DATE:** Oct. 11, 2010  
( Hank Chung, Deputy Manager )

**APPROVED BY :** May Chen , **DATE:** Oct. 11, 2010  
( May Chen, Deputy Manager )



## 2 SUMMARY OF TEST RESULTS

Standard	Test Type	Result	Remarks
FCC Part 15 Subpart B, Class B	Conducted Test	<b>PASS</b>	Meets Class B Limit Minimum passing margin is -8.76dB at 3.805MHz
	Radiated Test	<b>PASS</b>	Meets Class B Limit Minimum passing margin is -6.84 dB at 240.00 MHz

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

Measurement	Value
Conducted emissions	2.45 dB
Radiated emissions (30MHz-1GHz)	3.94 dB
Radiated emissions (1GHz -18GHz)	2.19 dB



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	1X1 single band 802.11b/g/n USB module
<b>MODEL NO.</b>	AR5BUB173
<b>POWER SUPPLY</b>	DC 3.3V from host equipment
<b>POWER CORD</b>	NA
<b>DATA CABLE</b>	NA
<b>I/O PORTS</b>	NA
<b>ASSOCIATED DEVICES</b>	NA

**Note:**

1. The EUT incorporates CDD function with 802.11b, 802.11g and SISO function with 802.11n.
2. The EUT is 1 \* 1 spatial SISO without beam forming function. The antenna configuration is one transmitter antenna and one receiver antenna, as there are 2 PCB antennas or 2 PIFA antennas.
3. The EUT complies with 802.11n standards and backwards compatible with 802.11a, 802.11b, 802.11g products.
4. The EUT complies with 802.11n standards and backwards compatible with 802.11b, 802.11g products.
5. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3.2 ANTENNA SPECIFICATIONS

There are four sets of antennas provided to the EUT, please refer to the following table:

Set	Antenna No.	Antenna Type	Gain (dBi)	Antenna Connector	Cable Length
Set 1	Antenna 1	PCB	3.3	IPEX	750mm
	Antenna 1	PCB	3.3	IPEX	750mm
Set 2	Antenna 2	PCB	4.41	IPEX	750mm
	Antenna 2	PCB	4.41	IPEX	750mm
Set 3	Antenna 3	PIFA	2.8	IPEX	350mm
	Antenna 3	PIFA	2.8	IPEX	350mm
Set 4	Antenna 4	PIFA	4.26	IPEX	750mm
	Antenna 4	PIFA	4.26	IPEX	750mm

### 3.3 GENERAL DESCRIPTION OF TEST MODE

The EUT was tested under following test modes:

Conducted test	
Test Mode	Description
Mode 1	With antenna 2: PCB antenna
Radiated test	
Test Mode	Description
Mode 1	With antenna 1: PCB antenna
Mode 2	With antenna 2: PCB antenna
Mode 3	With antenna 3: PIFA antenna
Mode 4	With antenna 4: PIFA antenna

### 3.4 DESCRIPTION OF SUPPORT UNITS

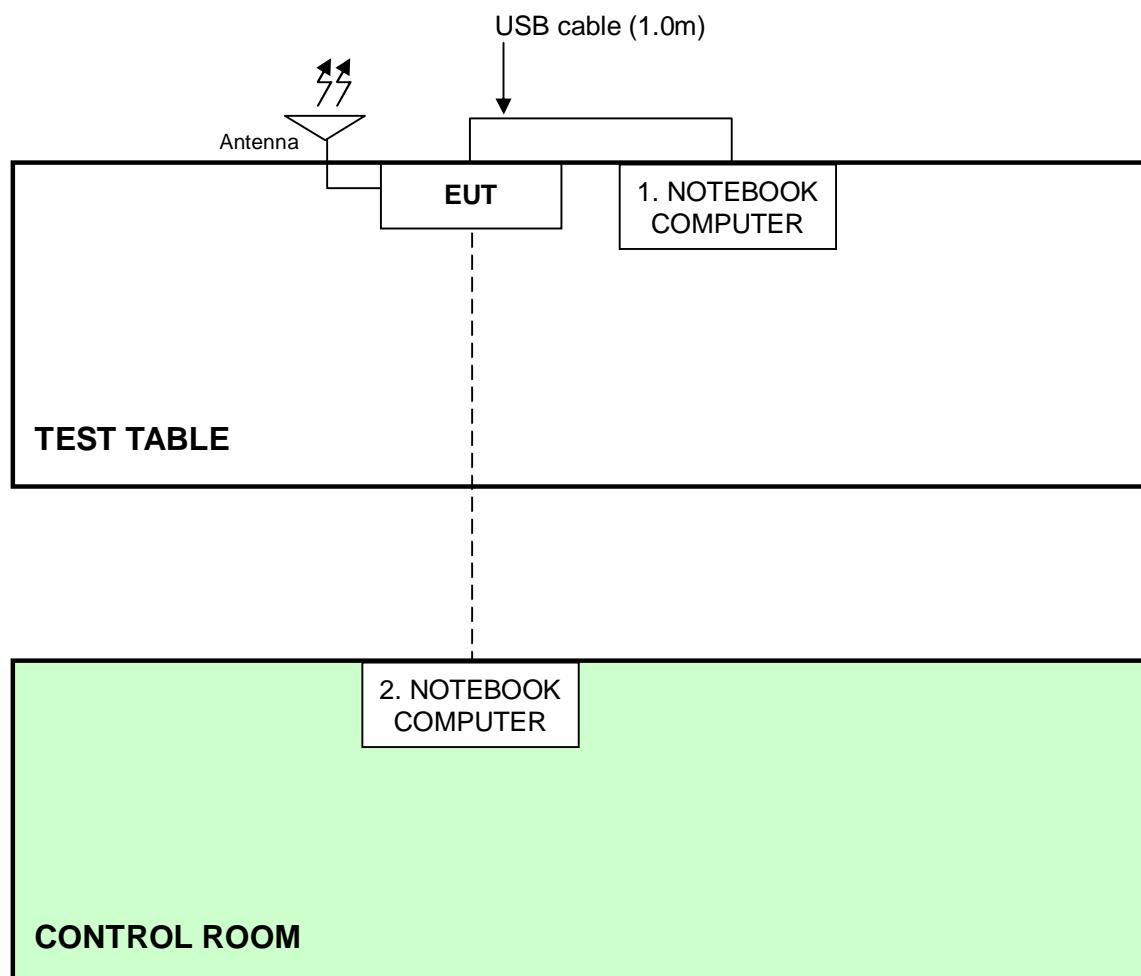
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP32LA	FSLB32S	FCC DoC
2	NOTEBOOK COMPUTER	DELL	D531	CN-0XM006-48643-86L-4472	QDS-BRCM1019

No.	Signal cable description
1	1.0 m shielded, USB cable.
2	NA

**NOTE:** All power cords of the above support units are non shielded (1.8m).

### 3.5 CONFIGURATION OF SYSTEM UNDER TEST





## 4 EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

**TEST STANDARD:**

**FCC Part 15, Subpart B (Section: 15.107)**

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

**NOTE:** (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz

(3) All emanation 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.

#### 4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS 30	100287	Mar. 01, 2010	Feb. 28, 2011
Line-Impedance Stabilization Network (for EUT)	NSLK 8127	8127-523	Oct. 05, 2009	Oct. 04, 2010
Line-Impedance Stabilization Network (for Peripheral)	ENV-216	100072	June 11, 2010	June 10, 2011
RF Cable (JYEBAO)	5DFB	COACAB-001	Dec. 14, 2009	Dec. 13, 2010
50 ohms Terminator	50	3	Oct. 28, 2009	Oct. 27, 2010
Software	BV ADT_Cond_V7.3.7	NA	NA	NA

**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 test was performed in Shielded Room No. A.
3. The VCCI Con A Registration No. is C-817.



### 4.1.3 TEST PROCEDURE

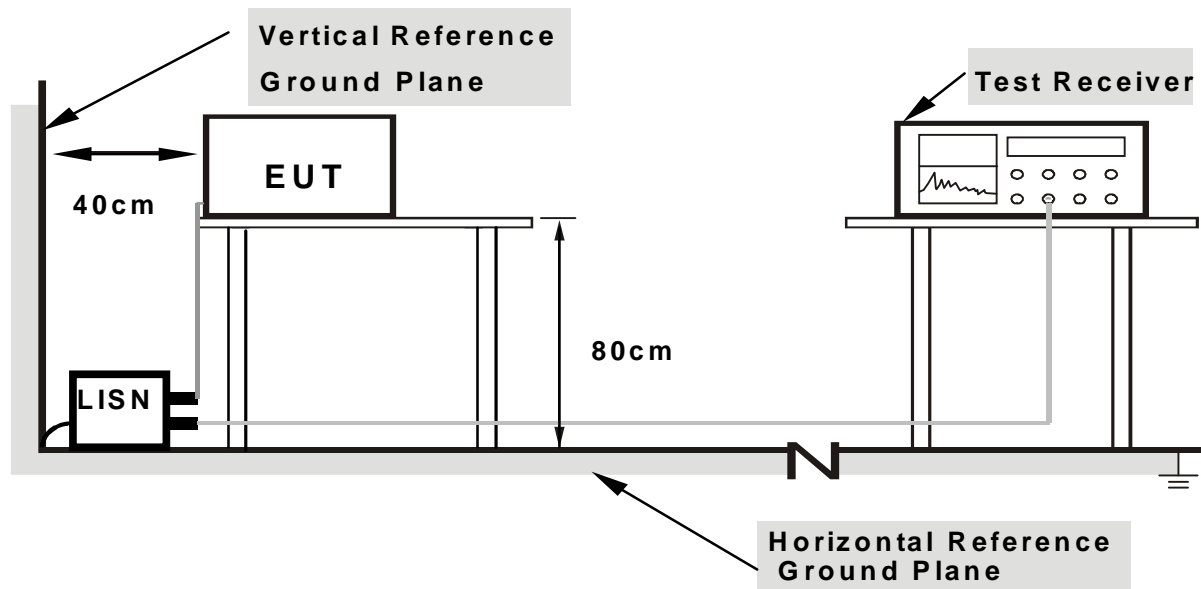
The basic test procedure was in accordance with ANSI C63.4-2003 (section 7)

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.1.5 TEST SETUP



- Note: 1.Support units were connected to second LISN.**  
**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

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



#### 4.1.6 EUT OPERATING CONDITIONS

1. Connect the EUT with the support unit 1 (Notebook Computer) which is placed on a the test table.
2. The support unit 1 (Notebook computer) acts as a server system to communicate with support unit 2 (Notebook computer) which is placed at outside of testing areas.
3. The support unit 1 (Notebook Computer) runs test program “Ping.exe” to enable EUT under transmission/receiving condition continuously via wireless transmission.



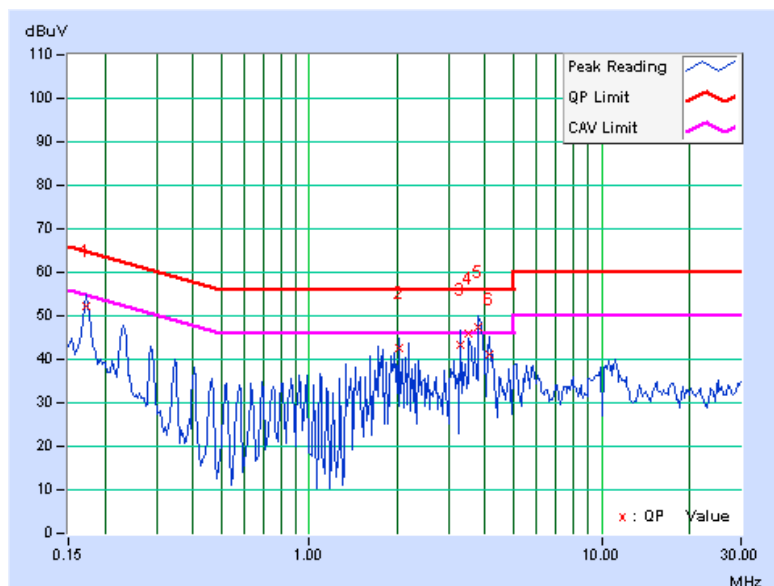
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### 4.1.7 TEST RESULTS

<b>TEST MODE</b>	Mode 1	<b>PHASE</b>	Line (L)
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>6dB BANDWIDTH</b>	9 kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26 deg. C, 70 % RH, 1012 hPa	<b>TESTED BY</b>	Timmy Hu

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.173	0.04	52.06	-	52.10	-	64.79
2	2.020	0.12	42.52	-	42.64	-	56.00	46.00	-13.36	-
3	3.289	0.13	43.06	-	43.19	-	56.00	46.00	-12.81	-
4	3.516	0.13	45.94	33.05	46.07	33.18	56.00	46.00	-9.93	-12.82
<b>5</b>	<b>3.805</b>	<b>0.13</b>	<b>47.11</b>	<b>36.04</b>	<b>47.24</b>	<b>36.17</b>	<b>56.00</b>	<b>46.00</b>	<b>-8.76</b>	<b>-9.83</b>
6	4.156	0.13	41.05	-	41.18	-	56.00	46.00	-14.82	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



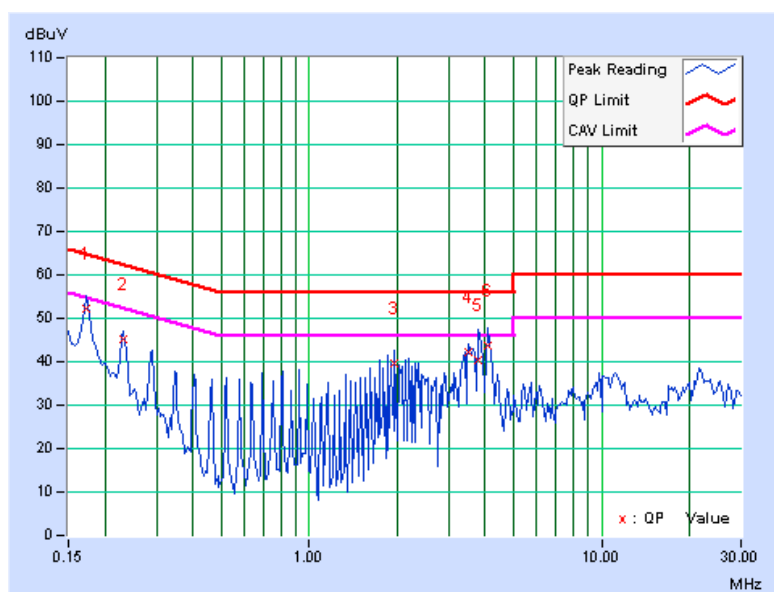


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<b>TEST MODE</b>	Mode 1	<b>PHASE</b>	Neutral (N)
<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz	<b>6dB BANDWIDTH</b>	9 kHz
<b>ENVIRONMENTAL CONDITIONS</b>	26 deg. C, 70 % RH, 1012 hPa	<b>TESTED BY</b>	Timmy Hu

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.05	52.30	-	52.35	-	64.79	54.79	-12.44	-
2	0.232	0.05	45.19	-	45.24	-	62.38	52.38	-17.14	-
3	1.965	0.13	39.61	-	39.74	-	56.00	46.00	-16.26	-
4	3.523	0.14	42.08	-	42.22	-	56.00	46.00	-13.78	-
5	3.758	0.14	40.07	-	40.21	-	56.00	46.00	-15.79	-
6	4.099	0.14	43.67	-	43.81	-	56.00	46.00	-12.19	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

#### TEST STANDARD:

FCC Part 15, Subpart B (Section: 15.109)

FOR FREQUENCY BELOW 1000 MHz (47 CFR Part 15 Subpart B)

FREQUENCY (MHz)	Class A (at 10m)		Class B (at 3m)	
	uV/m	dBuV/m	uV/m	dBuV/m
30 – 88	90	39.1	100	40.0
88 – 216	150	43.5	150	43.5
216 - 960	210	46.4	200	46.0
Above 960	300	49.5	500	54.0

#### LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80.0	60.0	74.0	54.0

**Note:** (1) The lower limit shall apply at the transition frequencies.

(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

(3) All emanation 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.

#### FREQUENCY RANGE OF RADIATED MEASUREMENT

(For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower



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## 4.2.2 TEST INSTRUMENTS

For below 1GHz test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ROHDE & SCHWARZ Spectrum Analyzer	FSP40	100036	Dec. 18, 2009	Dec. 17, 2010
Agilent PSA Spectrum Analyzer	E4446A	MY46180622	May 12 , 2010	May 11 , 2011
HP Pre_Amplifier	8449B	300801923	Nov. 02, 2009	Nov. 01, 2010
ROHDE & SCHWARZ Test Receiver	ESCS30	847124/029	Sep. 03, 2010	Sep. 02, 2011
SCHWARZBECK TRILOG Broadband Antenna	VULB 9168	138	Apr. 28, 2010	Apr. 27, 2011
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 18, 2009	Dec. 17, 2010
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 22, 2010	Jan. 21, 2011
RF Switches	EMH-011	1001	NA	NA
RF CABLE (Chaintek)	Sucoflex 104+ Sucoflex 106	RF104-101+R F106-101	Aug. 24, 2010	Aug. 23, 2011
RF Cable	8DFB	STCCAB-30M- 1GHz	NA	NA
Software	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA

- 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 horn antenna, preamplifier (model: 8449B) and Spectrum Analyzer (model: FSP40) are used only for the measurement of emission frequency above 1GHz if tested.  
3. The test was performed in Open Site No. C.  
4. The FCC Site Registration No. is 656396.  
5. The VCCI Site Registration No. is R-1626.  
6. The CANADA Site Registration No. is IC 7450G-3.



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**For above 1GHz test, tested date: Sep. 24**

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Agilent Spectrum Analyzer	E4446A	MY48250254	July 14, 2010	July 13, 2011
Agilent Pre-Selector	N9039A	MY46520311	July 14, 2010	July 13, 2011
Agilent Signal Generator	N5181A	MY49060517	July 14, 2010	July 13, 2011
Mini-Circuits Pre-Amplifier	ZFL-1000VH2B	AMP-ZFL-03	Nov. 18, 2009	Nov. 17, 2010
Agilent Pre-Amplifier	8449B	3008A02578	July 05, 2010	July 04, 2011
Miteq Pre-Amplifier	AFS33-1800265 0-30-8P-44	881786	NA	NA
SCHWARZBECK Trilog Broadband Antenna	VULB 9168	9168-360	Sep. 30, 2009	Sep. 29, 2010
AISI Horn_Antenna	AIH.8018	0000320091110	Nov. 16, 2009	Nov. 15, 2010
SCHWARZBECK Horn_Antenna	BBHA 9170	9170-424	Sep. 30, 2009	Sep. 29, 2010
RF CABLE	NA	RF104-201 RF104-203 RF104-204	Dec. 24, 2009	Dec. 23, 2010
RF Cable	NA	CHGCAB_001	NA	NA
Software	ADT_Radiated_V8.7.05	NA	NA	NA
CT Antenna Tower & Turn Table	NA	NA	NA	NA

- 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 horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.  
3. The test was performed in 966 Chamber No. G.  
4. The FCC Site Registration No. is 966073.  
5. The VCCI Site Registration No. is G-137.  
6. The CANADA Site Registration No. is IC 7450H-2.



### 4.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4-2003 (section 8)

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 10 meters open site for below 1GHz test and at 3 meters chamber room for above 1GHz test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference antenna.

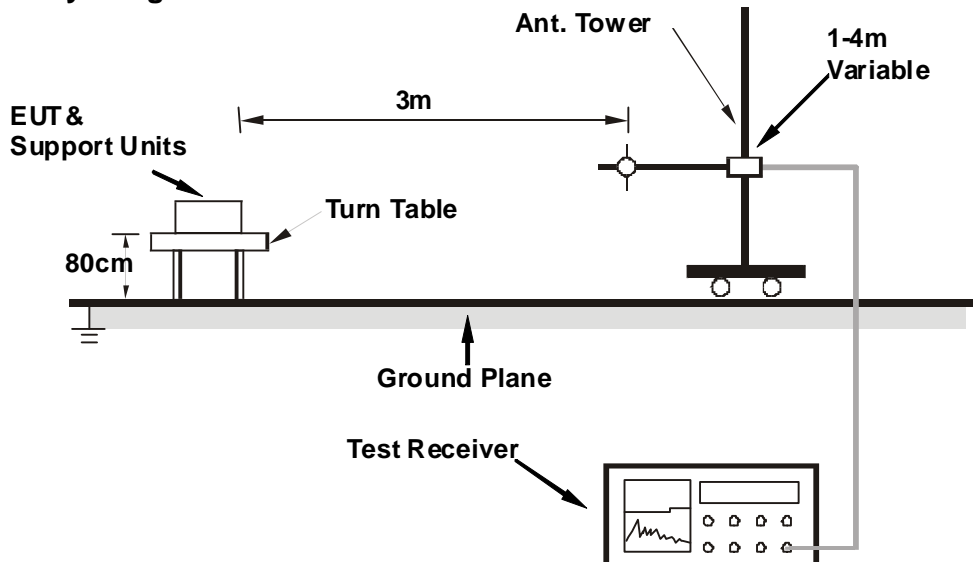
### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

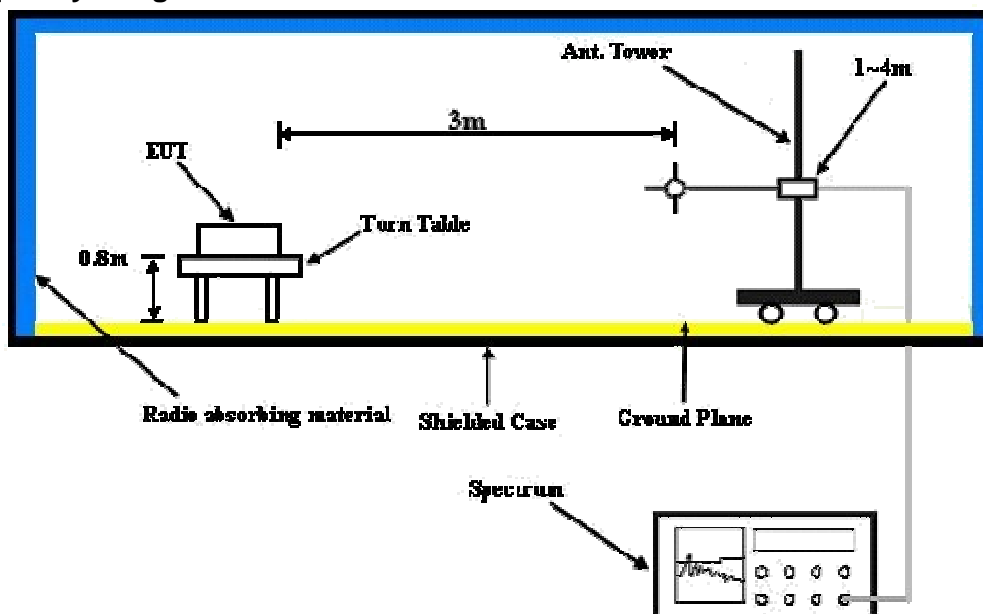


### 4.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



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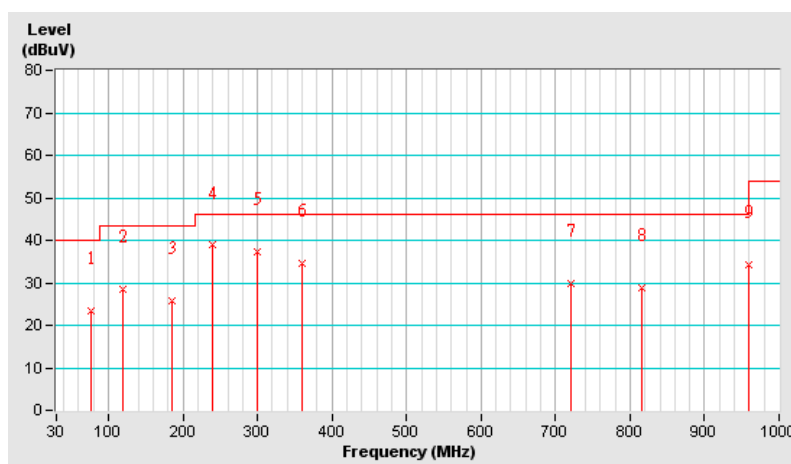
### 4.2.7 TEST RESULTS (MODE 1)

<b>TEST MODE</b>	Mode 1	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Wen Yu

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	76.24	23.34 QP	40.00	-16.66	2.93 H	0	12.77	10.57
2	120.00	28.61 QP	43.50	-14.89	1.56 H	207	16.41	12.20
3	184.46	25.74 QP	43.50	-17.76	1.37 H	286	14.17	11.57
4	240.00	38.88 QP	46.00	-7.12	1.21 H	321	25.83	13.05
5	300.37	37.42 QP	46.00	-8.58	1.00 H	212	21.75	15.67
6	359.00	34.63 QP	46.00	-11.37	1.00 H	212	17.49	17.14
7	720.00	29.93 QP	46.00	-16.07	1.00 H	226	5.17	24.76
8	816.00	28.84 QP	46.00	-17.16	1.00 H	229	2.96	25.88
9	960.00	34.27 QP	46.00	-11.73	1.00 H	150	6.20	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





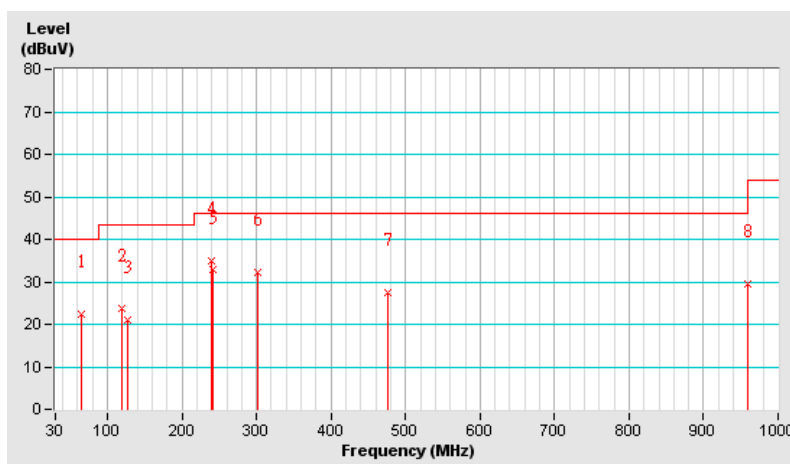
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<b>TEST MODE</b>	Mode 1	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Wen Yu

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	65.75	22.38 QP	40.00	-17.62	1.00 V	337	9.77	12.61
2	120.00	23.67 QP	43.50	-19.83	1.00 V	80	11.47	12.20
3	126.11	21.17 QP	43.50	-22.33	1.00 V	157	8.16	13.01
4	240.00	34.84 QP	46.00	-11.16	1.00 V	6	21.79	13.05
5	241.58	32.72 QP	46.00	-13.28	1.00 V	260	19.59	13.13
6	301.84	32.31 QP	46.00	-13.69	1.38 V	70	16.60	15.71
7	476.04	27.44 QP	46.00	-18.56	1.72 V	216	7.31	20.13
8	960.00	29.55 QP	46.00	-16.45	1.75 V	106	1.48	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





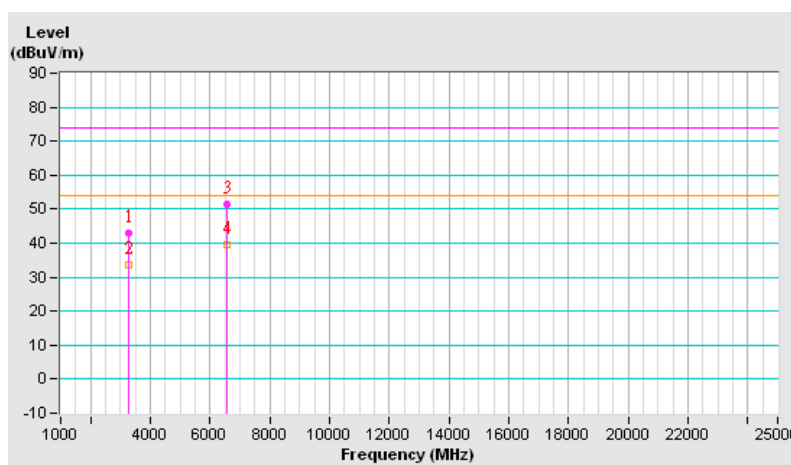
A D T

<b>TEST MODE</b>	Mode 1	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	42.90 PK	74.00	-31.10	1.08 H	252	9.05	33.85
2	3282.60	33.60 AV	54.00	-20.40	1.08 H	252	-0.25	33.85
3	6565.30	51.40 PK	74.00	-22.60	1.15 H	274	7.15	44.25
4	6565.30	39.50 AV	54.00	-14.50	1.15 H	274	-4.75	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





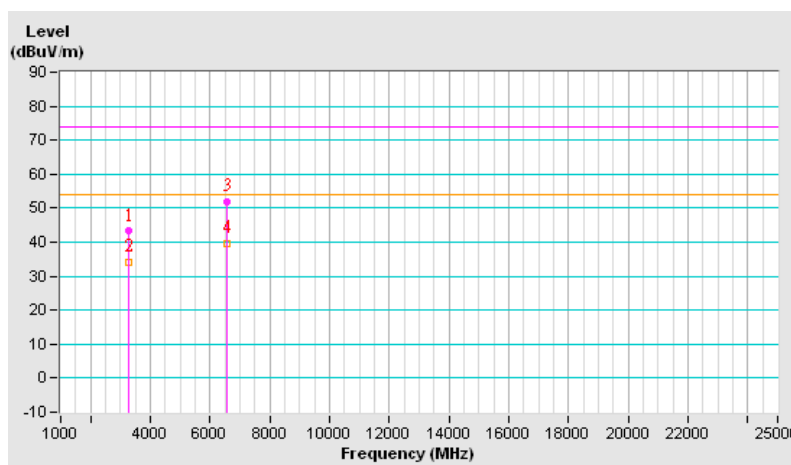
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<b>TEST MODE</b>	Mode 1	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>INPUT POWER</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	43.20 PK	74.00	-30.80	1.00 V	85	9.35	33.85
2	3282.60	34.10 AV	54.00	-19.90	1.00 V	85	0.25	33.85
3	6565.30	51.90 PK	74.00	-22.10	1.06 V	82	7.65	44.25
4	6565.30	39.70 AV	54.00	-14.30	1.06 V	82	-4.55	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





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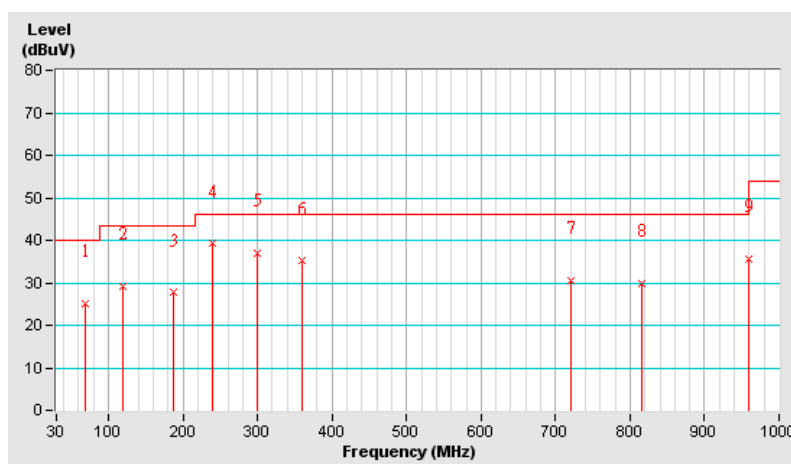
### 4.2.8 TEST RESULTS (MODE 2)

<b>TEST MODE</b>	Mode 2	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Moris Lin

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	68.55	25.16 QP	40.00	-14.84	2.58 H	12	13.00	12.16
2	120.00	29.31 QP	43.50	-14.19	1.62 H	188	17.11	12.20
3	186.66	27.69 QP	43.50	-15.81	1.41 H	294	16.21	11.48
<b>4</b>	<b>240.00</b>	<b>39.16 QP</b>	<b>46.00</b>	<b>-6.84</b>	<b>1.20 H</b>	<b>269</b>	<b>26.11</b>	<b>13.05</b>
5	300.52	36.88 QP	46.00	-9.12	1.02 H	165	21.21	15.67
6	359.00	35.12 QP	46.00	-10.88	1.00 H	261	17.98	17.14
7	720.00	30.67 QP	46.00	-15.33	1.00 H	126	5.91	24.76
8	816.00	29.87 QP	46.00	-16.13	1.00 H	265	3.99	25.88
9	960.00	35.69 QP	46.00	-10.31	1.00 H	121	7.62	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





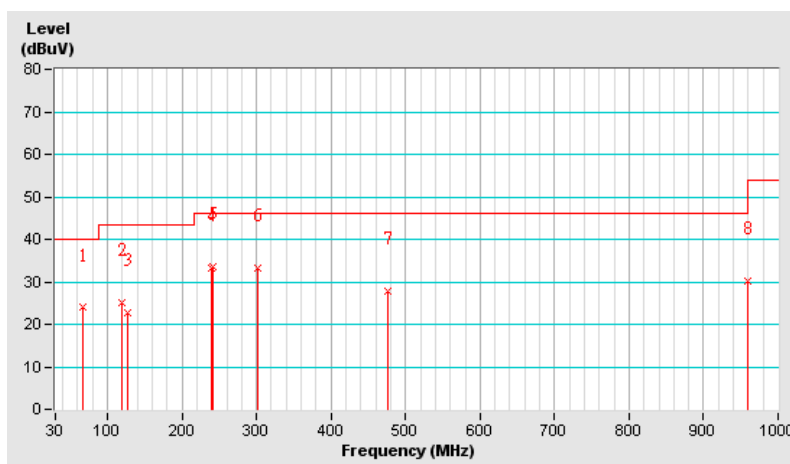
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<b>TEST MODE</b>	Mode 2	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Moris Lin

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	66.59	23.91 QP	40.00	-16.09	1.00 V	87	11.43	12.48
2	120.00	25.11 QP	43.50	-18.39	1.00 V	126	12.91	12.20
3	126.57	22.68 QP	43.50	-20.82	1.00 V	236	9.61	13.07
4	240.00	33.29 QP	46.00	-12.71	1.01 V	69	20.24	13.05
5	241.95	33.64 QP	46.00	-12.36	1.00 V	52	20.49	13.15
6	301.91	33.26 QP	46.00	-12.74	1.42 V	69	17.55	15.71
7	476.09	27.91 QP	46.00	-18.09	1.85 V	26	7.78	20.13
8	960.00	30.17 QP	46.00	-15.83	1.94 V	25	2.10	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





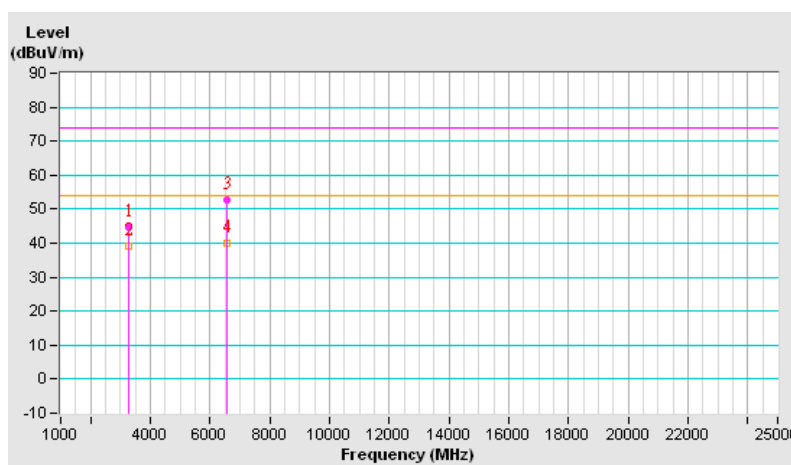
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<b>TEST MODE</b>	Mode 2	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	44.80 PK	74.00	-29.20	1.15 H	332	10.95	33.85
2	3282.60	39.20 AV	54.00	-14.80	1.15 H	332	5.35	33.85
3	6565.30	52.80 PK	74.00	-21.20	1.13 H	316	8.55	44.25
4	6565.30	40.20 AV	54.00	-13.80	1.13 H	316	-4.05	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.







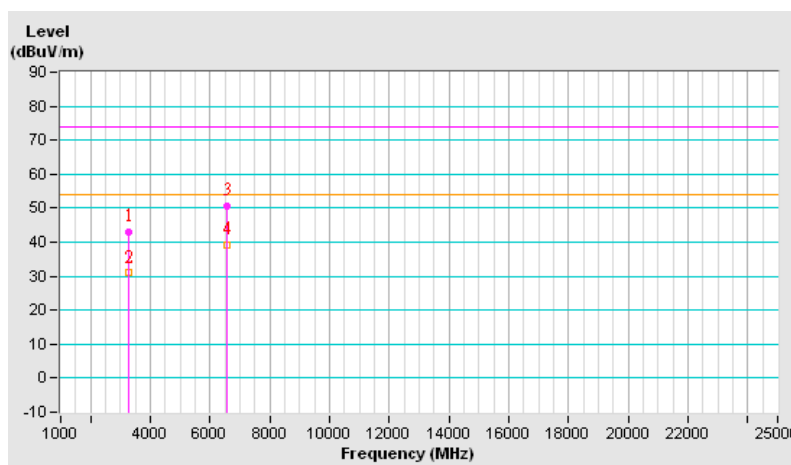
A D T

<b>TEST MODE</b>	Mode 2	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>INPUT POWER</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	43.00 PK	74.00	-31.00	1.17 V	333	9.15	33.85
2	3282.60	30.90 AV	54.00	-23.10	1.17 V	333	-2.95	33.85
3	6565.30	50.60 PK	74.00	-23.40	1.12 V	345	6.35	44.25
4	6565.30	39.20 AV	54.00	-14.80	1.12 V	345	-5.05	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



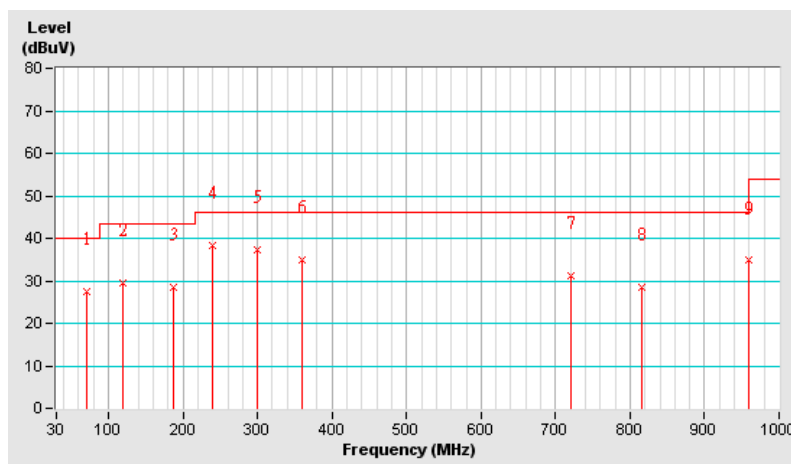
### 4.2.9 TEST RESULTS (MODE 3)

<b>TEST MODE</b>	Mode 3	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Moris Lin

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	69.88	27.38 QP	40.00	-12.62	2.73 H	52	15.44	11.94
2	120.00	29.52 QP	43.50	-13.98	1.57 H	112	17.32	12.20
3	187.32	28.63 QP	43.50	-14.87	1.87 H	238	17.17	11.46
4	240.00	38.28 QP	46.00	-7.72	1.19 H	267	25.23	13.05
5	300.42	37.22 QP	46.00	-8.78	1.00 H	148	21.55	15.67
6	359.00	34.89 QP	46.00	-11.11	1.00 H	272	17.75	17.14
7	720.00	31.22 QP	46.00	-14.78	1.00 H	138	6.46	24.76
8	816.00	28.63 QP	46.00	-17.37	1.00 H	271	2.75	25.88
9	960.00	34.75 QP	46.00	-11.25	1.00 H	119	6.68	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





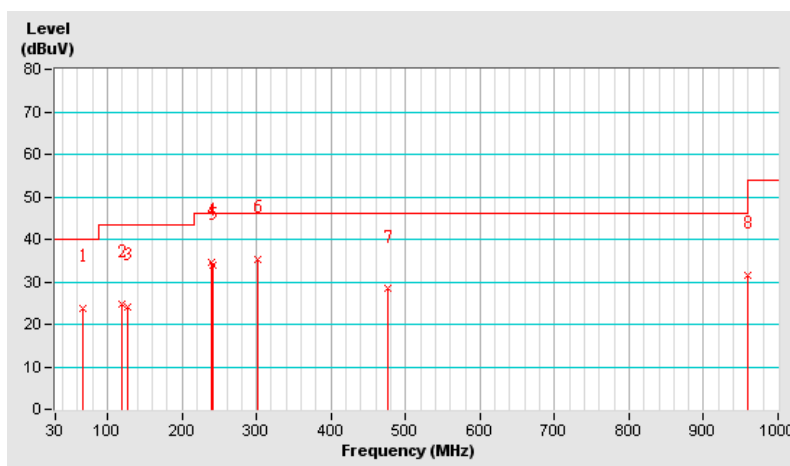
A D T

<b>TEST MODE</b>	Mode 3	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Moris Lin

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	66.88	23.75 QP	40.00	-16.25	1.00 V	52	11.32	12.43
2	120.00	24.75 QP	43.50	-18.75	1.00 V	163	12.55	12.20
3	126.84	24.12 QP	43.50	-19.38	1.00 V	178	11.01	13.11
4	240.00	34.57 QP	46.00	-11.43	1.00 V	23	21.52	13.05
5	241.56	33.78 QP	46.00	-12.22	1.00 V	144	20.65	13.13
6	301.45	35.22 QP	46.00	-10.78	1.55 V	42	19.52	15.70
7	476.44	28.36 QP	46.00	-17.64	1.56 V	45	8.22	20.14
8	960.00	31.55 QP	46.00	-14.45	1.42 V	177	3.48	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





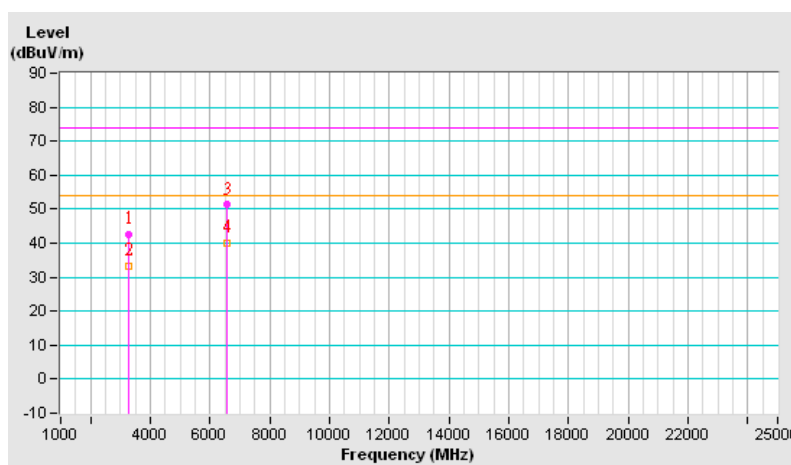
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<b>TEST MODE</b>	Mode 3	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	42.70 PK	74.00	-31.30	1.00 H	87	8.85	33.85
2	3282.60	33.30 AV	54.00	-20.70	1.00 H	87	-0.55	33.85
3	6565.30	51.30 PK	74.00	-22.70	1.12 H	194	7.05	44.25
4	6565.30	40.10 AV	54.00	-13.90	1.12 H	194	-4.15	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





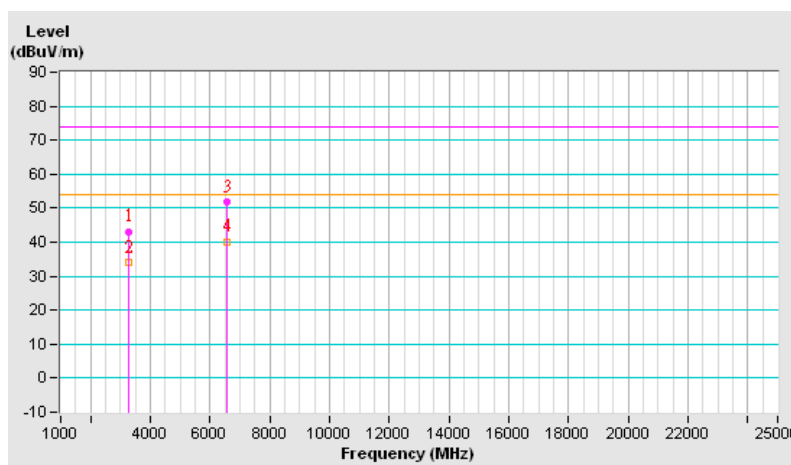
A D T

<b>TEST MODE</b>	Mode 3	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>INPUT POWER</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	43.10 PK	74.00	-30.90	1.00 V	274	9.25	33.85
2	3282.60	33.90 AV	54.00	-20.10	1.00 V	274	0.05	33.85
3	6565.30	51.70 PK	74.00	-22.30	1.13 V	89	7.45	44.25
4	6565.30	40.20 AV	54.00	-13.80	1.13 V	89	-4.05	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





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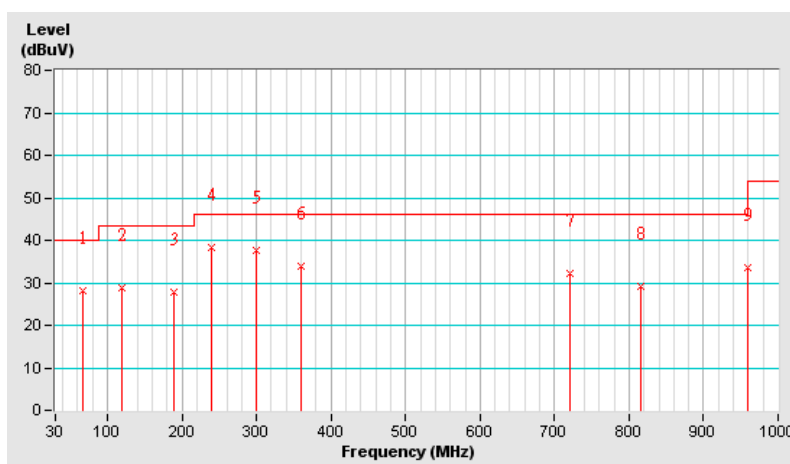
### 4.2.10 TEST RESULTS (MODE 4)

<b>TEST MODE</b>	Mode 4	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Moris Lin

#### ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	67.16	28.29 QP	40.00	-11.71	2.03 H	72	15.91	12.38
2	120.00	28.85 QP	43.50	-14.65	1.52 H	132	16.65	12.20
3	188.29	27.96 QP	43.50	-15.54	1.72 H	306	16.54	11.42
4	240.00	38.37 QP	46.00	-7.63	1.22 H	275	25.32	13.05
5	300.32	37.58 QP	46.00	-8.42	1.00 H	157	21.91	15.67
6	359.00	33.88 QP	46.00	-12.12	1.00 H	247	16.74	17.14
7	720.00	32.37 QP	46.00	-13.63	1.00 H	275	7.61	24.76
8	816.00	29.14 QP	46.00	-16.86	1.00 H	125	3.26	25.88
9	960.00	33.55 QP	46.00	-12.45	1.00 H	172	5.48	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





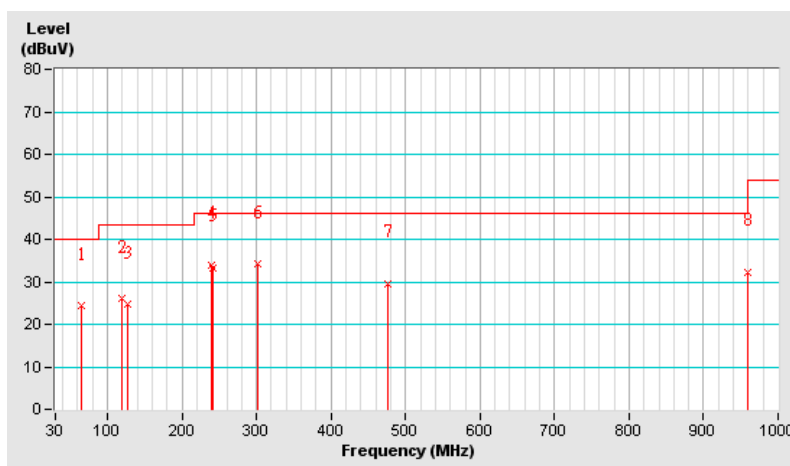
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<b>TEST MODE</b>	Mode 4	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	30-1000 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Quasi-Peak, 120kHz
<b>ENVIRONMENTAL CONDITIONS</b>	28 deg. C, 67 % RH, 1012 hPa	<b>TESTED BY</b>	Moris Lin

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	65.64	24.29 QP	40.00	-15.71	1.00 V	64	11.66	12.63
2	120.00	25.98 QP	43.50	-17.52	1.00 V	157	13.78	12.20
3	126.84	24.59 QP	43.50	-18.91	1.00 V	187	11.48	13.11
4	240.00	33.89 QP	46.00	-12.11	1.00 V	57	20.84	13.05
5	241.96	33.21 QP	46.00	-12.79	1.00 V	99	20.06	13.15
6	301.79	34.11 QP	46.00	-11.89	1.46 V	59	18.41	15.70
7	476.39	29.48 QP	46.00	-16.52	1.69 V	231	9.35	20.13
8	960.00	32.31 QP	46.00	-13.69	1.71 V	92	4.24	28.07

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





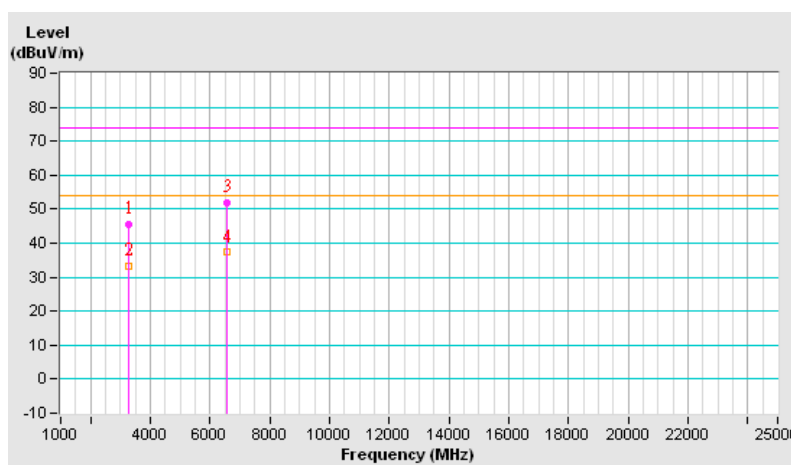
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<b>TEST MODE</b>	Mode 4	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>FREQUENCY RANGE</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	45.60 PK	74.00	-28.40	1.15 H	232	11.75	33.85
2	3282.60	33.10 AV	54.00	-20.90	1.15 H	232	-0.75	33.85
3	6565.30	52.00 PK	74.00	-22.00	1.02 H	245	7.75	44.25
4	6565.30	37.30 AV	54.00	-16.70	1.02 H	245	-6.95	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.







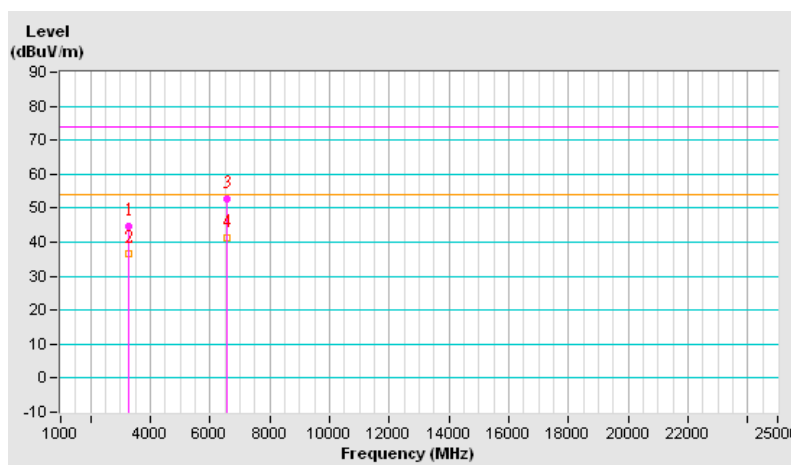
A D T

<b>TEST MODE</b>	Mode 4	<b>INPUT POWER (SYSTEM)</b>	120Vac, 60Hz
<b>INPUT POWER</b>	1000-12500 MHz	<b>DETECTOR FUNCTION &amp; BANDWIDTH</b>	Peak(PK)/ Average(AV), 1 MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25 deg. C, 68 % RH, 1012 hPa	<b>TESTED BY</b>	Rex Huang

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3282.60	44.70 PK	74.00	-29.30	1.15 V	34	10.85	33.85
2	3282.60	36.50 AV	54.00	-17.50	1.15 V	34	2.65	33.85
3	6565.30	52.60 PK	74.00	-21.40	1.11 V	33	8.35	44.25
4	6565.30	41.20 AV	54.00	-12.80	1.11 V	33	-3.05	44.25

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





## 5 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025:

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml).

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The address and road map of all our labs can be found in our web site also.



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## **6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

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