

FCC DoC TEST REPORT

REPORT NO. : FD990317H05

MODEL NO. : GPS-4100P

RECEIVED : Mar. 17, 2010

TESTED : Mar. 29 to 30, 2010

ISSUED DATE : Apr. 29, 2010

APPLICANT : Premier Communications Corporation

ADDRESS : 911 Mariner Street, Brea, CA92821, U.S.A

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

LAB LOCATION : No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
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Table of Contents

1	CERTIFICATION	3
2	SUMMARY OF TEST RESULTS	4
2.1	MEASUREMENT UNCERTAINTY	4
3	GENERAL INFORMATION	5
3.1	GENERAL DESCRIPTION OF EUT	5
3.2	GENERAL DESCRIPTION OF TEST MODE	6
3.3	DESCRIPTION OF SUPPORT UNITS.....	7
3.4	CONFIGURATION OF SYSTEM UNDER TEST	8
4	EMISSION TEST	10
4.1	CONDUCTED EMISSION MEASUREMENT	10
4.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	10
4.1.2	TEST INSTRUMENTS	10
4.1.3	TEST PROCEDURE	11
4.1.4	DEVIATION FROM TEST STANDARD	11
4.1.5	TEST SETUP	12
4.1.6	EUT OPERATING CONDITIONS	13
4.1.7	TEST RESULTS(MODE 1)	14
4.1.8	TEST RESULTS(MODE 2)	16
4.2	RADIATED EMISSION MEASUREMENT	18
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	18
4.2.2	TEST INSTRUMENTS	19
4.2.3	TEST PROCEDURE	20
4.2.4	DEVIATION FROM TEST STANDARD	20
4.2.5	TEST SETUP	21
4.2.6	EUT OPERATING CONDITIONS	21
4.2.7	TEST RESULTS	22
5	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	26
6	INFORMATION ON THE TESTING LABORATORIES	29
7	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	30



A D T

1 CERTIFICATION

PRODUCT : GPSMic Series for 2 way Radio
BRAND NAME : PRYME
MODEL NO. : GPS-4100P
TESTED : Mar. 29 to 30, 2010
TEST SAMPLE : ENGINEERING SAMPLE
APPLICANT : Premier Communications Corporation
STANDARDS : FCC Part 15, Subpart B, Class B
CISPR 22: 1997, Class B
ANSI C63.4-2003

The above equipment (Model: GPS-4100P) 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 : Carol Liao, **DATE:** Apr. 29, 2010
(Carol Liao, Specialist)

TECHNICAL ACCEPTANCE : Ray Yeh, **DATE:** Apr. 29, 2010
(Ray Yeh, Deputy Manager)

APPROVED BY : May Chen, **DATE:** Apr. 29, 2010
(May Chen, Deputy Manager)

2 SUMMARY OF TEST RESULTS

Standard	Test Type	Result	Remarks
FCC Part 15 Subpart B, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is -11.90 dB at 0.150 MHz
CISPR 22: 1997, Class B	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is -3.01 dB at 960.00 MHz

NOTE:

The limit for radiated test was performed according to CISPR 22, which was specified in FCC PART 15 Subpart B 15.109(g). Also the limits of CISPR 22 are same.

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)	3.98 dB
Radiated emissions (1GHz-18GHz)	2.44 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	GPSMic Series for 2 way Radio
MODEL NO.	GPS-4100P
POWER SUPPLY	DC 5V from host equipment or adapter or DC 3.7V from battery
POWER CORD	NA
DATA CABLE SUPPLIED	USB cable x 1 (Unshielded, 1.6m, with one core) Link cable (Unshielded, 1.2m)
I/O PORT	Mini USB port x 1 (control port) 3.5mm audio Jack port x 1 3.5mm audio connector x 1
ASSOCIATED DEVICES	Adapter x 1, Battery x 1

Note:

- The EUT must be supplied with an adapter or a battery as following information:

Adapter	
Brand:	Touch Electronic Co., Ltd
Model No.:	SA01-6USG05R-A
Input power :	AC100-240V, 0.2A , 50-60Hz
Output power :	5V ,6W Max
Battery	
Brand:	Li-ion
Model No.:	NOK 3650
Input power :	3.7V

- For radiated test, the EUT was pre-tested under the following modes:

Test Mode	Description
Mode A	X-Y plane
Mode B	Z-X plane
Mode C	Z-Y plane

From the above modes, the worst emission level was found in **Mode C**. Therefore only the test data of the mode was recorded in this report.

3. For radiated test, the EUT was pre-tested under the following modes:

Test Mode	Power source
Mode A	Battery
Mode B	Battery + USB Cable + Adapter
Mode C	Battery + USB Cable + Notebook

From the above modes, the worse case was found in **Mode C**. Therefore only the test data of the mode was recorded in this report.

4. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 GENERAL DESCRIPTION OF TEST MODE

The EUT was tested under the following test modes, and its data were recorded in this report:

For conducted test:	
Test Mode	Power source
Mode 1	Battery + USB Cable + Adapter
Mode 2	Battery + USB Cable + Notebook
For radiated test:	
Test Mode	Power source
Mode 1	Battery + USB Cable + Notebook

3.3 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.

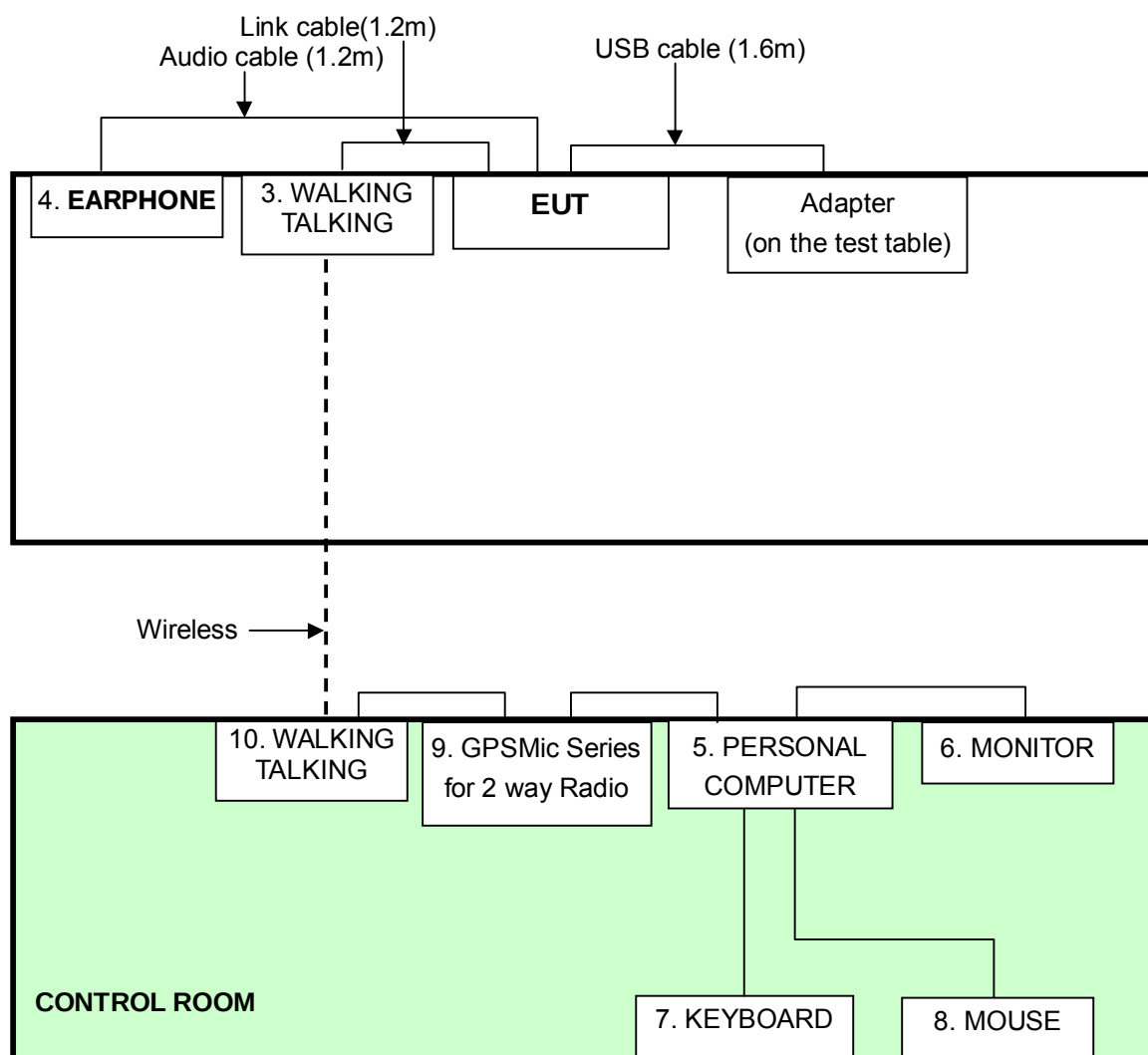
No.	Product	Brand	Model No.	Serial No.	FCC ID
1	NOTEBOOK COMPUTER	DELL	D531	CN-0XM006-48643-86L-4472	QDS-BRCM1019
2	MODEM	ACEEX	1414	0206026775	IFAXDM1414
3	WALKING TALKING	Motorola	GP328	NA	NA
4	EARPHONE	PHILIPS	SBC HL145	8710895759472	NA
5	PERSONAL COMPUTER	IBM	A65	L3B4724	FCC DoC
6	MONITOR	HannStar	HU151	622AN34NA1574	FCC DoC
7	KEYBOARD	DELL	SK-8110	MY-05N456-71679-3C1-1635	NA
8	MOUSE	DELL	M056UOA	FOROOSWW	FCC DoC
9	GPSMic Series for 2 way Radio	PRYME	GPS-4100P	NA	NA
10	WALKING TALKING	Motorola	GP328	NA	NA

No.	Signal cable description
1	USB cable(1.6m, with one core)
2	1.2 m braid shielded wire, terminated with DB25 and DB9 connector via metallic frame, w/o core.
3	Link cable(1.2m)
4	Audio cable(1.2m)
5	USB cable(1.2m)
6	1.8 m braid shielded wire, terminated with VGA connector via metallic frame
7	1.8 m foil shielded wire, terminal by frame, USB Connector, w/o Core.
8	1.8 m foil shielded wire, terminal by frame, USB Connector, w/o Core.
9	NA
10	Link cable(1.2m)

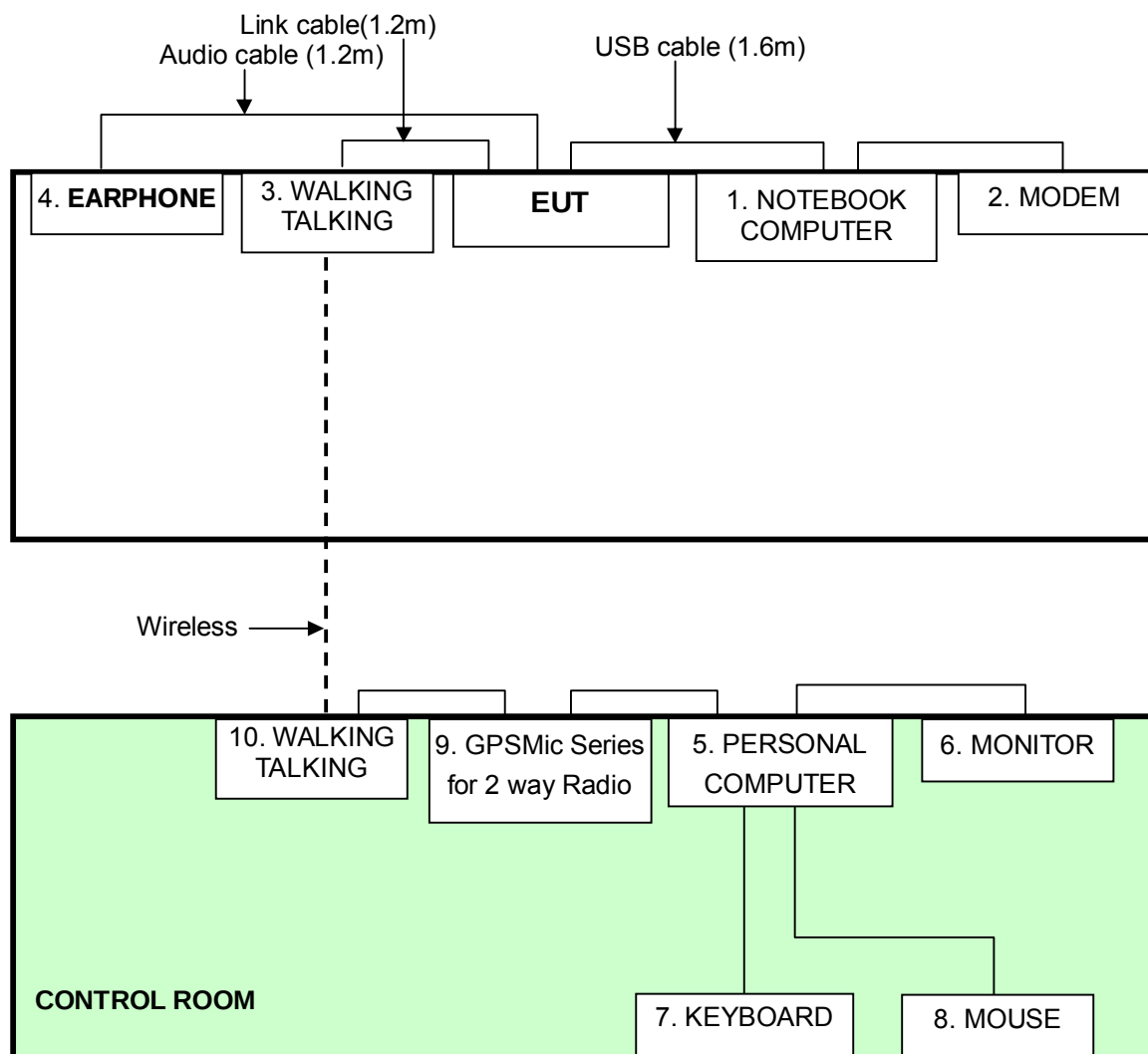
Note: The power cords of the above support units were unshielded (1.8m).

3.4 CONFIGURATION OF SYSTEM UNDER TEST

For conducted test - Mode 1:



For conducted test - Mode 2 & radiated test - Mode 1:



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)

CISPR 22: 1997 (section 5)

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	Sep. 23, 2009	Sep. 22, 2010
Line-Impedance Stabilization Network (for Peripheral)	KNW-407	8-1395-12	May 04, 2009	May 03, 2010
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.



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4.1.3 TEST PROCEDURE

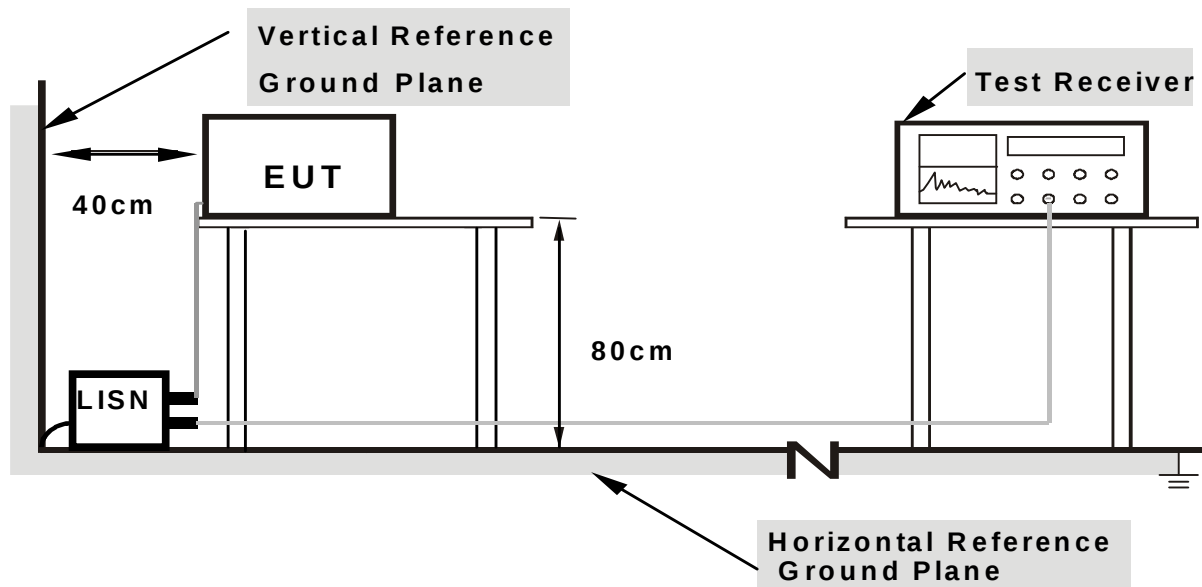
The basic test procedure was in accordance with ANSI C63.4-2003 (section 7), CISPR 22 (section 9).

- 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

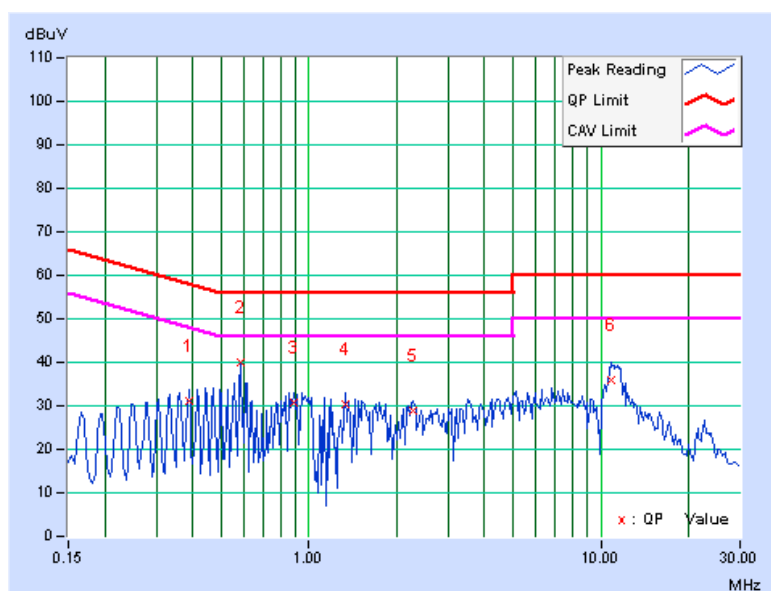
- a. The EUT sends the GPS information messages to support unit 9 (GPSMic Series for 2 way Radio) via Walking talking (support units 3 & 10) via wireless and Link cables.
- b. The support unit 5 (Personal Computer) saves the GPS information messages from support unit 9 (GPSMic Series for 2 way Radio) via one USB cable.
- c. The support unit 5 (Personal Computer) runs a test program "PRYME GPSMIC Check Point" to check the EUT function continuously.
- d. The support unit 5 (Personal Computer) plays music and these audio messages are broadcasted from earphone via EUT and support unit 3 (Walking talking).

4.1.7 TEST RESULTS(MODE 1)

TEST MODE	Mode 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27 deg. C, 56 % RH, 1024 hPa	TESTED BY	Leo Peng

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.388	0.06	31.16	-	31.22	-	58.10	48.10	-26.88	-
2	0.584	0.07	40.09	-	40.16	-	56.00	46.00	-15.84	-
3	0.888	0.08	30.81	-	30.89	-	56.00	46.00	-25.11	-
4	1.328	0.10	30.41	-	30.51	-	56.00	46.00	-25.49	-
5	2.273	0.13	28.86	-	28.99	-	56.00	46.00	-27.01	-
6	10.813	0.38	35.45	-	35.83	-	60.00	50.00	-24.17	-

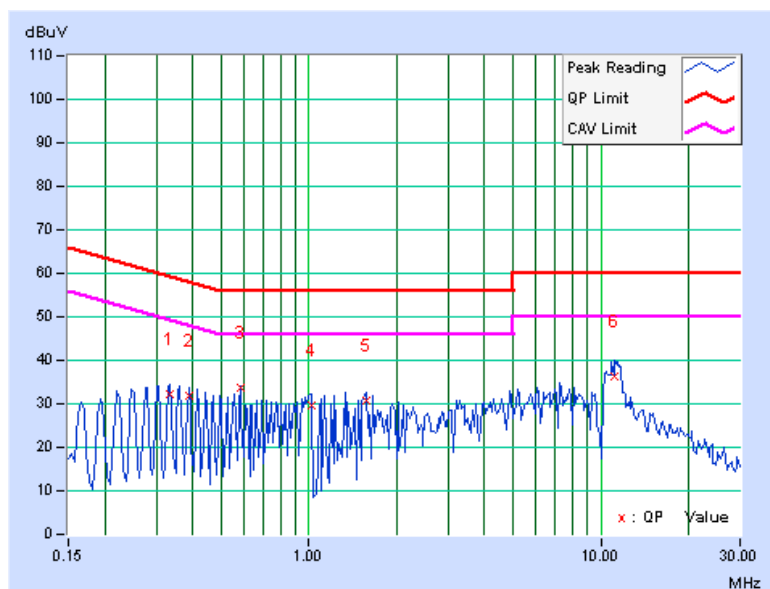
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



TEST MODE	Mode 1	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27 deg. C, 56 % RH, 1024 hPa	TESTED BY	Leo Peng

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.334	0.06	32.17	-	32.23	-	59.36	49.36	-27.13	-
2	0.388	0.07	31.71	-	31.78	-	58.10	48.10	-26.32	-
3	0.584	0.08	33.65	-	33.73	-	56.00	46.00	-22.27	-
4	1.027	0.10	29.51	-	29.61	-	56.00	46.00	-26.39	-
5	1.582	0.12	30.80	-	30.92	-	56.00	46.00	-25.08	-
6	11.176	0.40	35.85	-	36.25	-	60.00	50.00	-23.75	-

- 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.

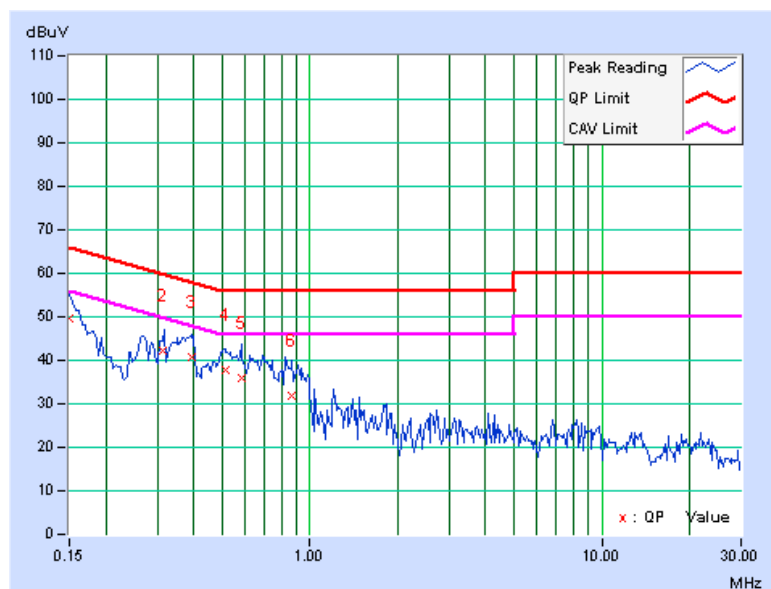


4.1.8 TEST RESULTS(MODE 2)

TEST MODE	Mode 2	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	27 deg. C, 56 % RH, 1024 hPa	TESTED BY	Leo Peng

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.04	49.54	-	49.58	-	66.00	56.00	-16.42	-
2	0.312	0.05	42.17	-	42.22	-	59.91	49.91	-17.69	-
3	0.392	0.06	40.53	-	40.59	-	58.02	48.02	-17.43	-
4	0.513	0.07	37.60	-	37.67	-	56.00	46.00	-18.33	-
5	0.584	0.07	35.84	-	35.91	-	56.00	46.00	-20.09	-
6	0.869	0.08	31.68	-	31.76	-	56.00	46.00	-24.24	-

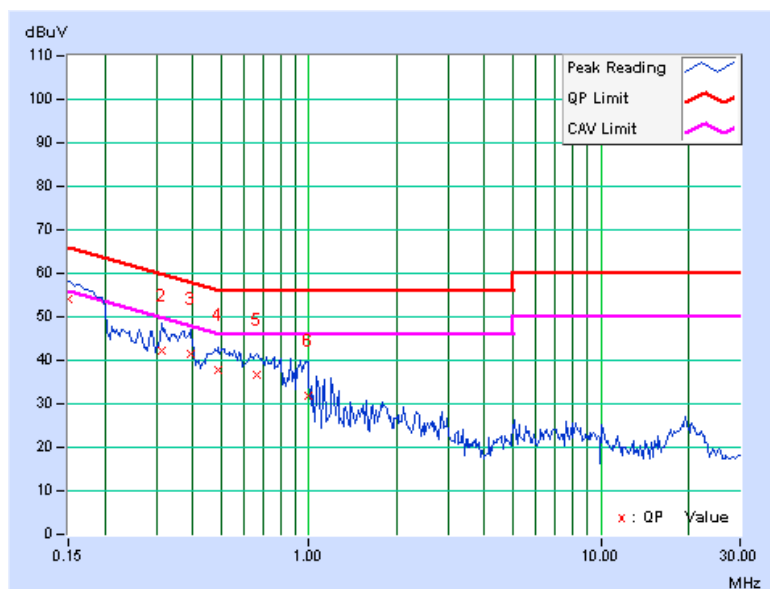
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



TEST MODE	Mode 2	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	27 deg. C, 56 % RH, 1024 hPa	TESTED BY	Leo Peng

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.05	54.05	-	54.10	-	66.00	56.00	-11.90	-
2	0.314	0.06	42.11	-	42.17	-	59.86	49.86	-17.69	-
3	0.392	0.07	41.52	-	41.59	-	58.02	48.02	-16.43	-
4	0.490	0.07	37.89	-	37.96	-	56.17	46.17	-18.21	-
5	0.662	0.08	36.51	-	36.59	-	56.00	46.00	-19.41	-
6	0.990	0.10	31.93	-	32.03	-	56.00	46.00	-23.97	-

- 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)

CISPR 22: 1997 (section 6)

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

FOR FREQUENCY BELOW 1000 MHz (CISPR 22)

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30 – 230	40	30
230 - 1000	47	37

Note: The limit for radiated test was performed according to CISPR 22, which was specified in FCC PART 15 Subpart B 15.109(g).

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 th harmonic of the highest frequency or 40 GHz, whichever is lower

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ADVANTEST Spectrum Analyzer	U3751	170100022	Nov. 18, 2009	Nov. 17, 2010
ADVANTEST Spectrum Analyzer	U3772	160100280	Sep. 21, 2009	Sep. 20, 2010
HP Pre_Amplifier	8449B	3008A01922	Sep. 25, 2009	Sep. 24, 2010
ROHDE & SCHWARZ Test Receiver	ESCS 30	100027	May 05, 2009	May 04, 2010
SCHWARZBECK Broadband Antenna	VULB-9168	263	Apr. 29, 2009	Apr. 28, 2010
Schwarzbeck Horn_Antenna	BBHA9120	D123	Sep. 21, 2009	Sep. 20, 2010
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 23, 2010	Jan. 22, 2011
RF Switches	EM-H-01-1	1009	Aug. 10, 2009	Aug. 08, 2010
RF Cable	8DFB	STACAB-30M-1GHz-091	Nov. 20, 2009	Nov. 19, 2010
Software	ADT_Radiated_V7.6.15.9.2	NA	NA	NA
CT Antenna Tower & Turn Table	TT100	ADT01	NA	NA
CORCOM AC Filter	MRI2030	107/108	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, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: U3772) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in Open Site No. A.
4. The VCCI Site Registration No. is R-782.
5. The FCC Site Registration No. is 91097.
6. The CANADA Site Registration No. is IC 7450G-1.

4.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4-2003 (section 8), CISPR 22 (section 10).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open field site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters (3 meters -above 1GHz) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height 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.

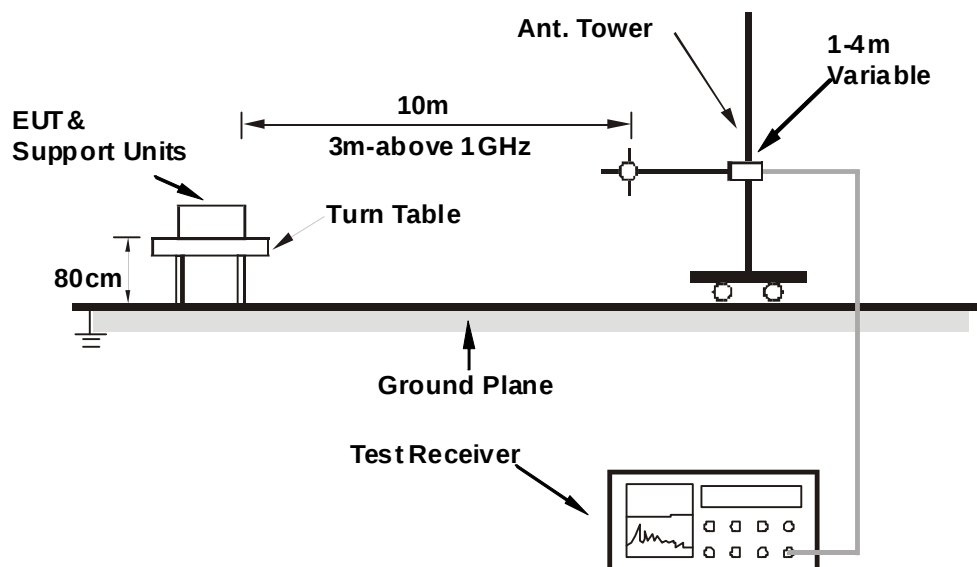
NOTE:

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



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

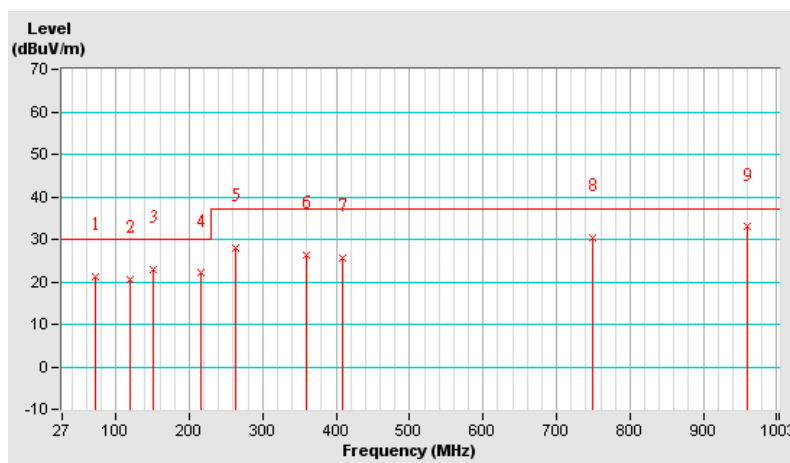
4.2.7 TEST RESULTS

TEST MODE	Mode 1	INPUT POWER (SYSTEM)	120Vac, 60Hz
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 61 % RH, 1024 hPa	TESTED BY	Eagle Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 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	72.00	21.22 QP	30.00	-8.78	4.00 H	30	9.28	11.94
2	120.00	20.51 QP	30.00	-9.49	4.00 H	342	8.22	12.29
3	151.34	22.83 QP	30.00	-7.17	4.00 H	75	7.36	15.47
4	216.00	22.05 QP	30.00	-7.95	4.00 H	352	9.71	12.34
5	264.00	28.10 QP	37.00	-8.90	3.03 H	27	13.78	14.32
6	360.00	26.32 QP	37.00	-10.68	1.91 H	350	8.84	17.48
7	407.99	25.71 QP	37.00	-11.29	1.64 H	24	7.02	18.69
8	750.00	30.36 QP	37.00	-6.64	1.26 H	341	4.55	25.80
9	960.00	32.91 QP	37.00	-4.09	1.00 H	37	4.10	28.81

- 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.

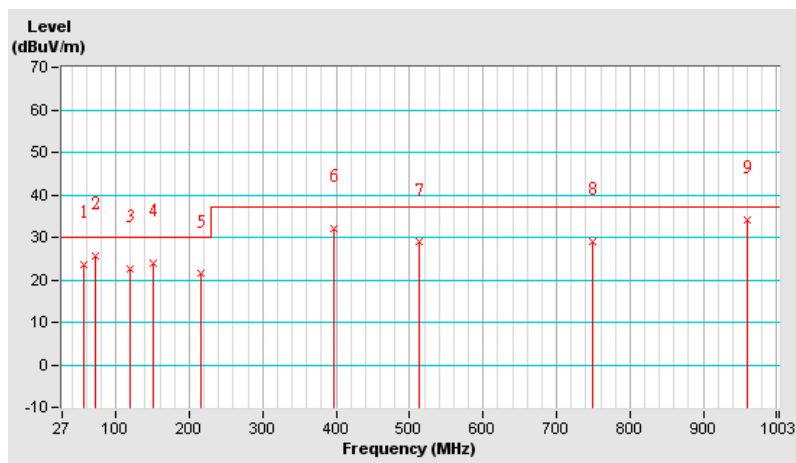


TEST MODE	Mode 1	INPUT POWER (SYSTEM)	120Vac, 60Hz
FREQUENCY RANGE	30-1000 MHz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 61 % RH, 1024 hPa	TESTED BY	Eagle Chen

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 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	56.23	23.62 QP	30.00	-6.38	1.00 V	354	10.26	13.36
2	72.00	25.64 QP	30.00	-4.36	1.00 V	30	13.70	11.94
3	120.00	22.66 QP	30.00	-7.34	1.00 V	341	10.37	12.29
4	151.18	23.84 QP	30.00	-6.16	1.00 V	37	8.35	15.49
5	215.64	21.40 QP	30.00	-8.60	1.00 V	345	9.07	12.33
6	397.67	31.95 QP	37.00	-5.05	1.00 V	33	13.55	18.40
7	514.00	28.87 QP	37.00	-8.13	3.23 V	357	7.26	21.61
8	749.99	29.08 QP	37.00	-7.92	2.59 V	23	3.28	25.80
9	960.00	33.99 QP	37.00	-3.01	1.72 V	337	5.18	28.81

- 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.





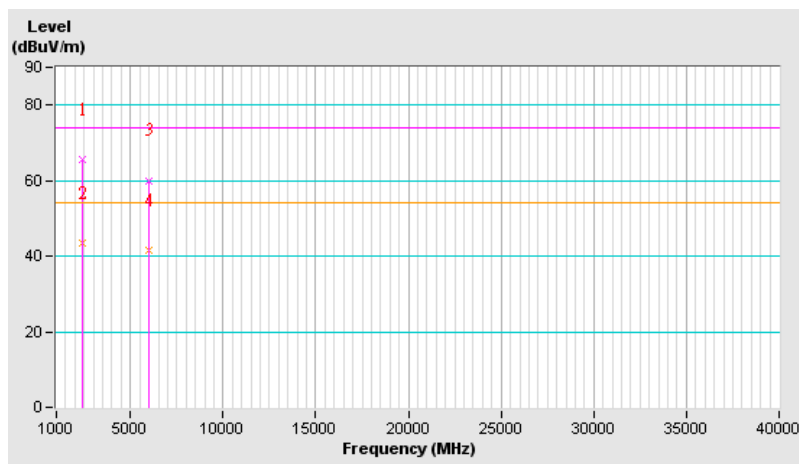
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TEST MODE	Mode 1	INPUT POWER (SYSTEM)	120Vac, 60Hz
FREQUENCY RANGE	1000-7875 MHz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) / Average (AV), 1MHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 61 % RH, 1024 hPa	TESTED BY	Eagle Chen

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	2400.00	65.43 PK	74.00	-8.57	1.69 H	124	33.93	31.50
2	2400.00	43.33 AV	54.00	-10.67	1.69 H	124	11.83	31.50
3	6000.00	60.03 PK	74.00	-13.97	1.99 H	236	20.69	39.34
4	6000.00	41.50 AV	54.00	-12.50	1.99 H	236	2.16	39.34

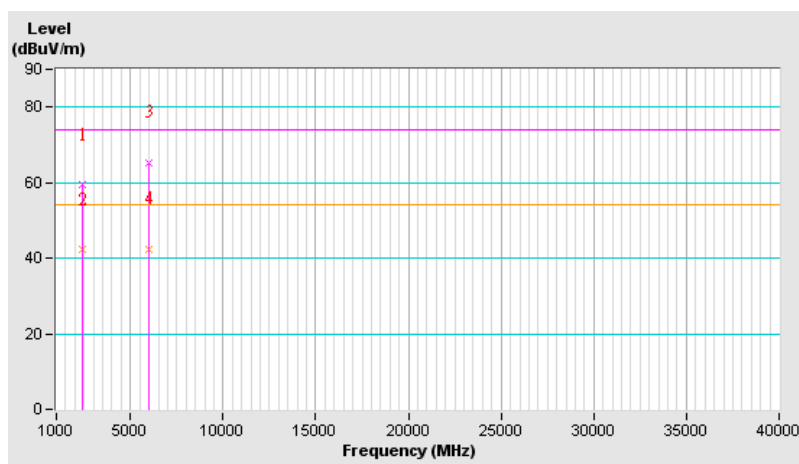
- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.



TEST MODE	Mode 1	INPUT POWER (SYSTEM)	120Vac, 60Hz
FREQUENCY RANGE	1000-7875 MHz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) / Average (AV), 1MHz
ENVIRONMENTAL CONDITIONS	20 deg. C, 61 % RH, 1024 hPa	TESTED BY	Eagle Chen

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	2400.00	59.46 PK	74.00	-14.54	1.62 V	201	27.96	31.50
2	2400.00	42.21 AV	54.00	-11.79	1.62 V	201	10.71	31.50
3	6000.00	65.39 PK	74.00	-8.61	2.03 V	325	26.05	39.34
4	6000.00	42.50 AV	54.00	-11.50	2.03 V	325	3.16	39.34

- 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 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST(MODE 1)



CONDUCTED EMISSION TEST(MODE 2)



RADIATED EMISSION TEST



6 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.
If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

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Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

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Fax: 886-3-3185050

Email: service@adt.com.tw

Web Site: www.adt.com.tw

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



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7 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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