

FCC VERIFICATION TEST REPORT

REPORT NO.: FV970602A29A

MODEL NO.: GT-41069P9012-T3,
GT-41069P9024-5.0-T3,
GT-41069P9024-T3

RECEIVED: June 2, 2008

TESTED: June 3 ~ 5, 2008

ISSUED: Nov. 6, 2008

APPLICANT: GLOBTEK INC

ADDRESS: 186 VETERANS DR NORTHVALE,
NJ 07647 USA

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou
Hsiang, Taipei Hsien 244, Taiwan, R. O. C.

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1 CERTIFICATION

PRODUCT: Switching Power Supply
BRAND NAME: Globtek
MODEL NO: GT-41069P9012-T3, GT-41069P9024-5.0-T3,
GT-41069P9024-T3
TEST ITEM: ENGINEERING SAMPLE
APPLICANT: GLOBTEK INC
TESTED: June 3 ~ 5, 2008
STANDARDS: FCC Part 15: 2007, Subpart B, Class B
CISPR 22: 1997, Class B
ICES-003: 2004, Class B
ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology Corporation**, 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 : Kathy Tseng, **DATE:** Nov. 6, 2008
(Kathy Tseng / Senior Specialist)

**TECHNICAL
ACCEPTANCE :** Arthur Lin, **DATE:** Nov. 6, 2008
Responsible for EMI (Arthur Lin / Senior Engineer)

APPROVED BY : Kenny Meng, **DATE:** Nov. 6, 2008
(Kenny Meng / Deputy Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Remarks
FCC Part 15: 2007 Subpart B, Class B	Conducted Test	PASS	Meets Class B Limit Minimum passing margin is –10.27 dB at 0.673 MHz
CISPR 22: 1997, Class B	Radiated Test	PASS	Meets Class B Limit Minimum passing margin is –4.93 dB at 64.91 MHz
ICES-003: 2004, Class B			

Note: The limit for radiated test was performed according to CISPR 22: 1997, which was specified in FCC PART 15 Subpart B 15.109(g). Also the limits of ICES-003: 2004 and CISPR 22:1997 Subpart B 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	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.46 dB
Radiated emissions	30MHz ~ 1GHz	3.96 dB
	1GHz ~ 40GHz	2.89 dB

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Switching Power Supply
MODEL NO.	GT-41069P9012-T3, GT-41069P9024-5.0-T3, GT-41069P9024-T3
POWER SUPPLY	Switching Rating: refer to Note below Power Cord: Non-shielded DC (1.8 m) with one ferrite core
DATA CABLE SUPPLIED	N/A

NOTE:

1. The EUT is a Switching Power Supply (AC 3-pin) with the following models which are identical to each other except for their output rating and transformer difference, as follows:

Model No.	Specification			Transformer
	AC I/P	DC O/P	Plug Type	
GT-41069P9012-T3	100-240V, 1.5A, 50-60Hz	12Vdc, 7.5A	Normal	XF00500
			Mickey head	
GT-41069P9024-5.0-T3		19Vdc, 4.74A	Normal	XF00501
			Mickey head	
GT-41069P9024-T3		24Vdc, 3.75A	Normal	XF00501
			Mickey head	

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

3.2 DESCRIPTION OF TEST MODES

During the test, the above models, each with two plug type were pre-tested, and the worst emission level was found on **Model No.: GT-41069P9012-T3**, therefore the final test modes are as the following:

Test Item	Test Mode	Description of Test Mode		
		Model No.	Plug Type	Test Condition
Conducted Test	Mode 1	GT-41069P9012-T3	Normal	Full load
	Mode 2		Mickey Head	
	Mode 3	GT-41069P9024-5.0-T3	Normal	
	Mode 4		Mickey Head	
	Mode 5	GT-41069P9024-T3	Normal	
	Mode 6		Mickey Head	
Radiated Test	Mode 1	GT-41069P9012-T3	Normal	
	Mode 2		Mickey Head	
	Mode 3	GT-41069P9024-5.0-T3	Normal	
	Mode 4		Mickey Head	

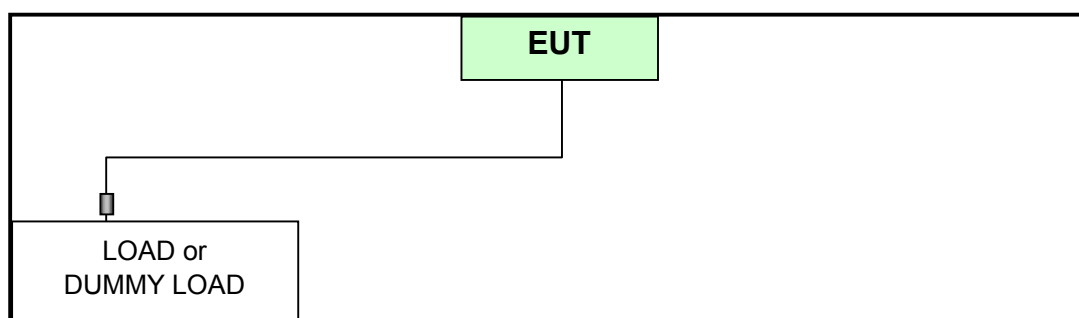
3.3 DESCRIPTION OF SUPPORT UNITS

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	LOAD	N/A	N/A	N/A	N/A
2	DUMMY LOAD	ADT	L19A	L2-010006	N/A

NOTE: One non-shielded AC 3 Pin power cord (1.8m) was connected to EUT.

Test Configuration



4 EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD:

FCC Part 15: 2007, Subpart B (Section: 15.107)

CISPR 22: 1997 (section 5)

ICES-003: 2004 (Class A: section 5.2)

(Class B: section 5.3)

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 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.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ Test Receiver	ESCS30	100290	Nov. 14, 2008
ROHDE & SCHWARZ Artificial Mains Network (for EUT)	ESH3-Z5	839135/006	Jul. 17, 2008
LISN With Adapter (for EUT)	AD10	C02Ada-001	Jul. 17, 2008
EMCO-L.I.S.N. (for peripheral)	3825/2	9204-1964	May 11, 2009
Software	ADT_Conc_V7.3.5	NA	NA
Software	ADT_ISN_V7.3.5	NA	NA
RF cable (JYEBAO)	5D-FB	Cable-C02.01	Jan, 09, 2009
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-298	Jan. 27, 2009
LYNICS Terminator (For EMCO LISN)	0900510	E1-01-299	Jan. 27, 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 test was performed in ADT Shielded Room No. 2.
 3. The VCCI Site Registration No. C-240.

4.1.3 TEST PROCEDURE

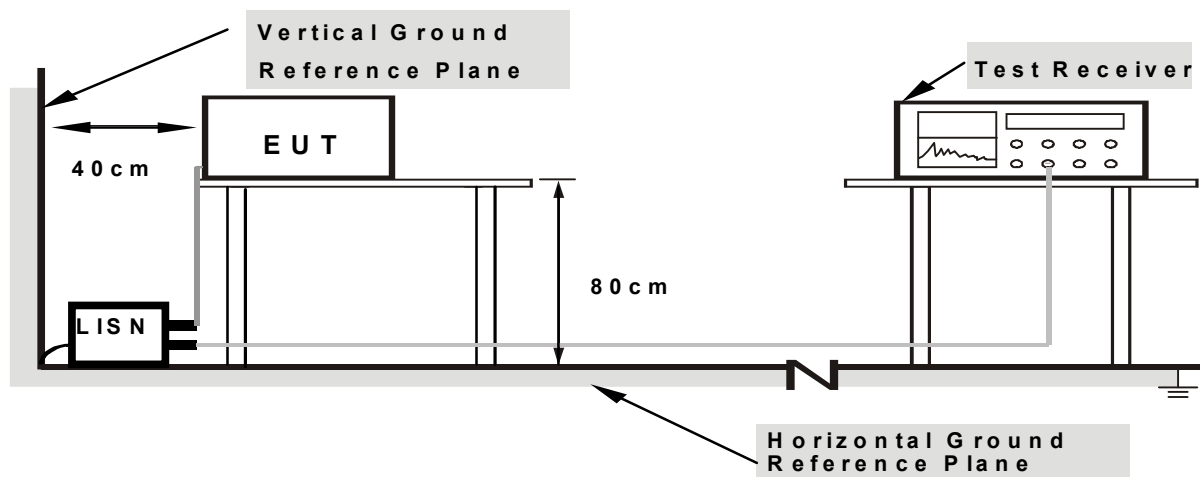
The basic test procedure was in accordance with ANSI C63.4-2003 (section 7), CISPR 22 (section 9) and ICES-003: 2004 (section 4).

- 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 under (Limit - 20dB) were not recorded.

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 cm 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

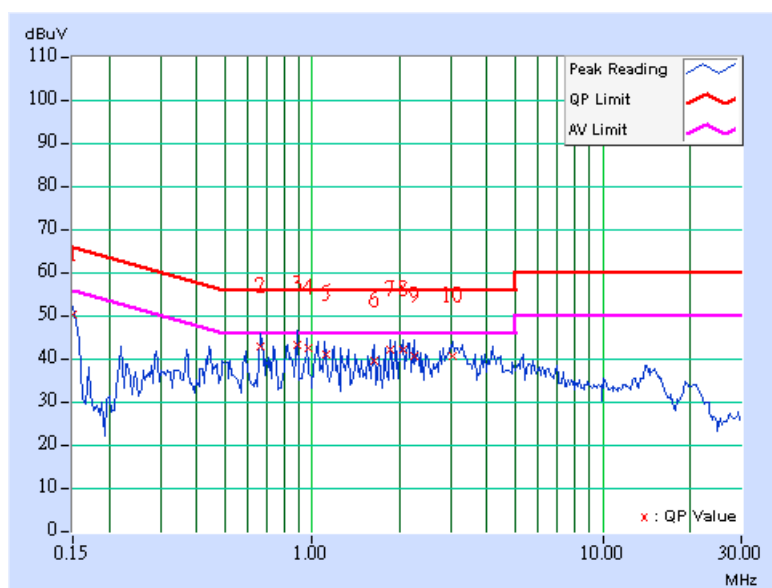
Set the EUT under full resistor load.

4.1.7 TEST RESULTS (1)

TEST MODE	Mode 1	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.30	49.74	-	50.04	-	66.00	56.00	-15.96	-
2	0.667	0.40	42.47	-	42.87	-	56.00	46.00	-13.13	-
3	0.891	0.40	42.83	-	43.23	-	56.00	46.00	-12.77	-
4	0.965	0.40	41.97	-	42.37	-	56.00	46.00	-13.63	-
5	1.112	0.41	40.58	-	40.99	-	56.00	46.00	-15.01	-
6	1.633	0.46	38.86	-	39.32	-	56.00	46.00	-16.68	-
7	1.855	0.49	41.79	-	42.28	-	56.00	46.00	-13.72	-
8	2.068	0.51	41.76	-	42.27	-	56.00	46.00	-13.73	-
9	2.236	0.52	40.07	-	40.59	-	56.00	46.00	-15.41	-
10	3.042	0.60	40.11	-	40.71	-	56.00	46.00	-15.29	-

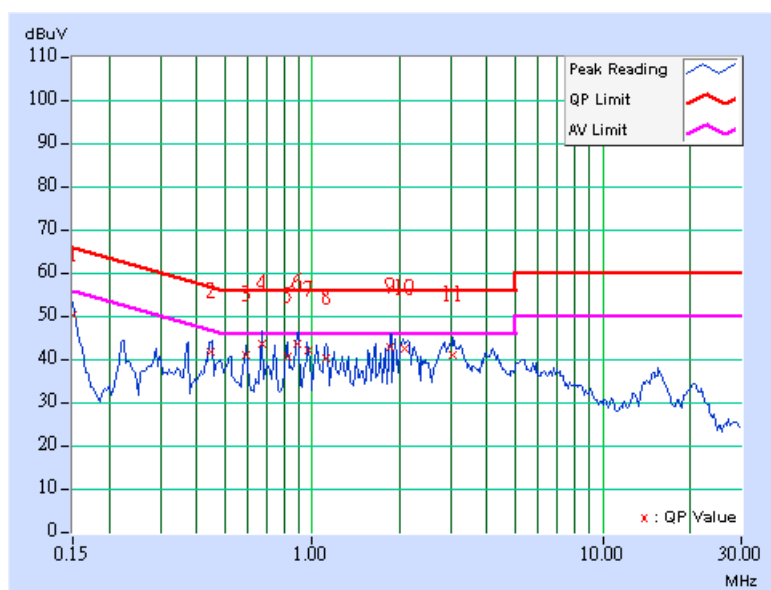
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.20	50.02	-	50.22	-	66.00	56.00	-15.78	-
2	0.446	0.30	41.29	-	41.59	-	56.96	46.96	-15.37	-
3	0.594	0.30	40.73	-	41.03	-	56.00	46.00	-14.97	-
4	0.668	0.30	43.13	-	43.43	-	56.00	46.00	-12.57	-
5	0.819	0.30	40.16	-	40.46	-	56.00	46.00	-15.54	-
6	0.889	0.30	43.13	-	43.43	-	56.00	46.00	-12.57	-
7	0.966	0.30	41.69	-	41.99	-	56.00	46.00	-14.01	-
8	1.115	0.31	39.82	-	40.13	-	56.00	46.00	-15.87	-
9	1.862	0.39	42.64	-	43.03	-	56.00	46.00	-12.97	-
10	2.074	0.41	41.98	-	42.39	-	56.00	46.00	-13.61	-
11	3.047	0.50	40.67	-	41.17	-	56.00	46.00	-14.83	-

- 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 (2)

TEST MODE	Mode 2	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

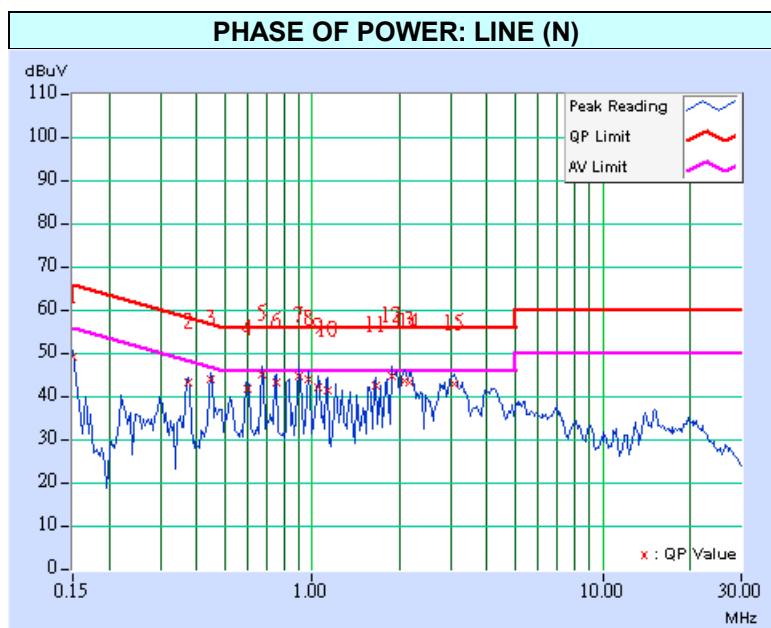
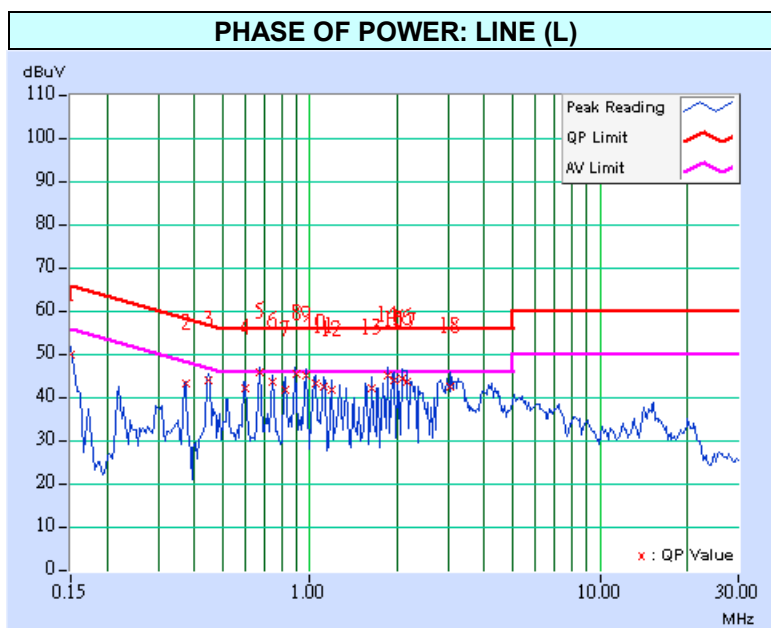
No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.30	49.29	-	49.59	-	66.00	56.00	-16.41	-
2	0.374	0.39	42.73	-	43.12	-	58.42	48.42	-15.30	-
3	0.449	0.40	43.52	-	43.92	-	56.89	46.89	-12.97	-
4	0.598	0.40	41.68	-	42.08	-	56.00	46.00	-13.92	-
5	0.673	0.40	45.33	-	45.73	-	56.00	46.00	-10.27	-
6	0.748	0.40	43.15	-	43.55	-	56.00	46.00	-12.45	-
7	0.822	0.40	41.38	-	41.78	-	56.00	46.00	-14.22	-
8	0.897	0.40	44.88	-	45.28	-	56.00	46.00	-10.72	-
9	0.972	0.40	44.68	-	45.08	-	56.00	46.00	-10.92	-
10	1.047	0.40	42.66	-	43.06	-	56.00	46.00	-12.94	-
11	1.121	0.41	42.16	-	42.57	-	56.00	46.00	-13.43	-
12	1.194	0.42	41.25	-	41.67	-	56.00	46.00	-14.33	-
13	1.643	0.46	41.49	-	41.95	-	56.00	46.00	-14.05	-
14	1.864	0.49	44.53	-	45.02	-	56.00	46.00	-10.98	-
15	1.945	0.49	43.47	-	43.96	-	56.00	46.00	-12.04	-
16	2.088	0.51	43.84	-	44.35	-	56.00	46.00	-11.65	-
17	2.166	0.52	43.25	-	43.77	-	56.00	46.00	-12.23	-
18	3.063	0.61	41.87	-	42.48	-	56.00	46.00	-13.52	-

- 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	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.20	48.65	-	48.85	-	66.00	56.00	-17.15	-
2	0.374	0.29	42.81	-	43.10	-	58.41	48.41	-15.32	-
3	0.448	0.30	43.41	-	43.71	-	56.91	46.91	-13.20	-
4	0.599	0.30	41.51	-	41.81	-	56.00	46.00	-14.19	-
5	0.673	0.30	44.84	-	45.14	-	56.00	46.00	-10.86	-
6	0.750	0.30	42.83	-	43.13	-	56.00	46.00	-12.87	-
7	0.897	0.30	44.46	-	44.76	-	56.00	46.00	-11.24	-
8	0.974	0.30	43.73	-	44.03	-	56.00	46.00	-11.97	-
9	1.051	0.31	41.54	-	41.85	-	56.00	46.00	-14.15	-
10	1.129	0.31	41.12	-	41.43	-	56.00	46.00	-14.57	-
11	1.653	0.37	42.07	-	42.44	-	56.00	46.00	-13.56	-
12	1.874	0.39	44.30	-	44.69	-	56.00	46.00	-11.31	-
13	2.088	0.41	43.18	-	43.59	-	56.00	46.00	-12.41	-
14	2.170	0.42	43.01	-	43.43	-	56.00	46.00	-12.57	-
15	3.071	0.51	42.49	-	43.00	-	56.00	46.00	-13.00	-

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 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

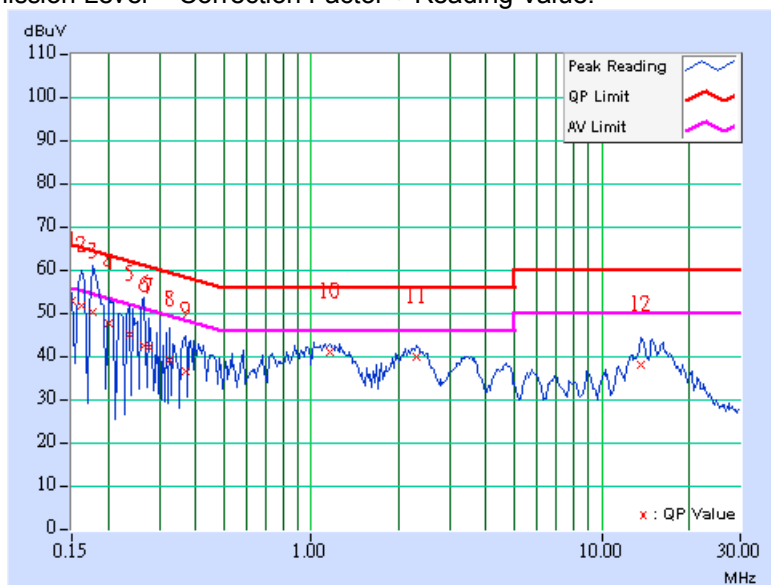


4.1.9 TEST RESULTS (3)

TEST MODE	Mode 3	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.30	51.50	-	51.80	-	66.00	56.00	-14.20	-
2	0.162	0.30	50.43	-	50.73	-	65.38	55.38	-14.65	-
3	0.177	0.30	48.86	-	49.16	-	64.61	54.61	-15.45	-
4	0.201	0.30	46.31	-	46.61	-	63.58	53.58	-16.97	-
5	0.236	0.32	43.48	-	43.80	-	62.24	52.24	-18.44	-
6	0.267	0.33	41.11	-	41.44	-	61.20	51.20	-19.76	-
7	0.275	0.34	40.77	-	41.11	-	60.97	50.97	-19.86	-
8	0.326	0.36	37.81	-	38.17	-	59.56	49.56	-21.39	-
9	0.369	0.38	34.90	-	35.28	-	58.53	48.53	-23.24	-
10	1.160	0.42	39.48	-	39.90	-	56.00	46.00	-16.10	-
11	2.305	0.53	38.38	-	38.91	-	56.00	46.00	-17.09	-
12	13.691	1.60	36.44	-	38.04	-	60.00	50.00	-21.96	-

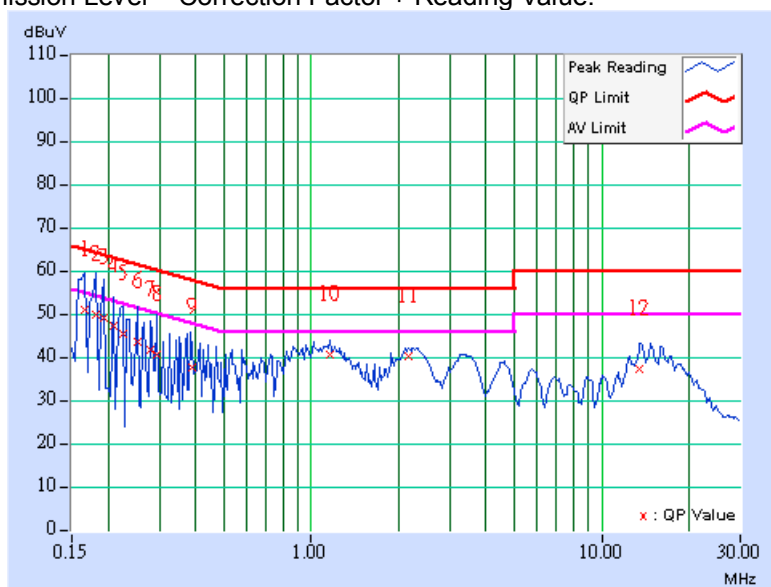
- REMARKS:**
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 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



TEST MODE	Mode 3	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.166	0.20	49.89	-	50.09	-	65.18	55.18	-15.09	-
2	0.181	0.20	48.48	-	48.68	-	64.43	54.43	-15.75	-
3	0.193	0.20	47.75	-	47.95	-	63.91	53.91	-15.96	-
4	0.209	0.20	45.85	-	46.05	-	63.26	53.26	-17.21	-
5	0.224	0.21	44.21	-	44.42	-	62.66	52.66	-18.24	-
6	0.252	0.23	42.14	-	42.37	-	61.71	51.71	-19.34	-
7	0.279	0.24	40.51	-	40.75	-	60.85	50.85	-20.10	-
8	0.295	0.25	39.37	-	39.62	-	60.40	50.40	-20.78	-
9	0.387	0.29	36.43	-	36.72	-	58.13	48.13	-21.41	-
10	1.164	0.32	39.46	-	39.78	-	56.00	46.00	-16.22	-
11	2.156	0.42	39.09	-	39.51	-	56.00	46.00	-16.49	-
12	13.559	1.38	36.13	-	37.51	-	60.00	50.00	-22.49	-

- 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.



4.1.10 TEST RESULTS (4)

TEST MODE	Mode 4	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

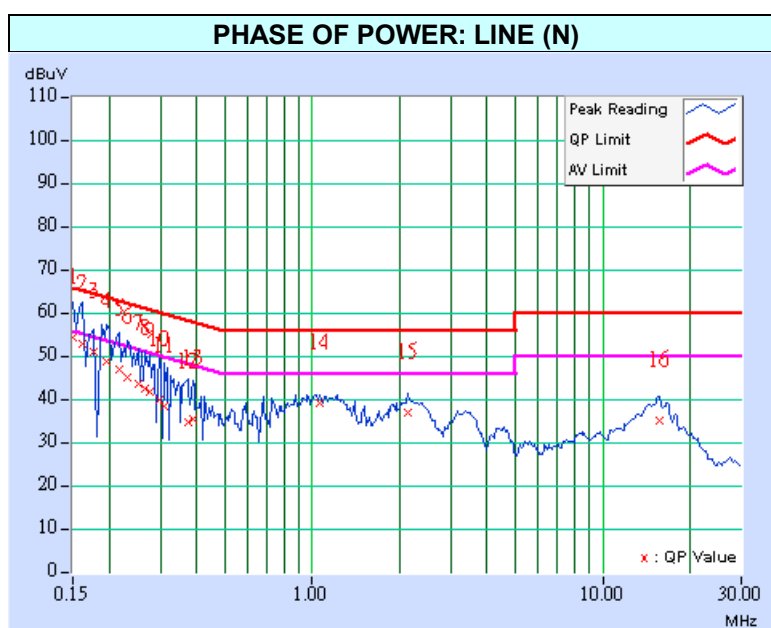
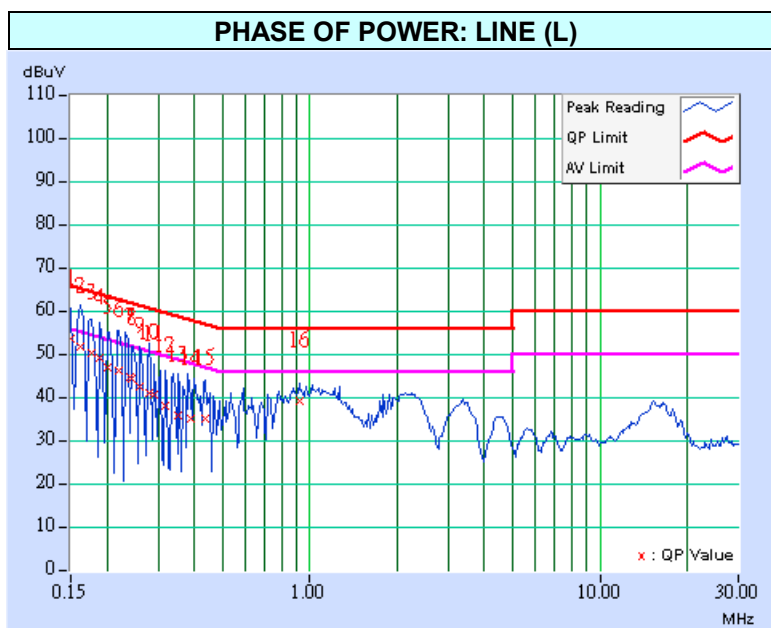
No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.30	53.16	-	53.46	-	66.00	56.00	-12.54	-
2	0.162	0.30	51.27	-	51.57	-	65.38	55.38	-13.81	-
3	0.177	0.30	49.95	-	50.25	-	64.61	54.61	-14.36	-
4	0.189	0.30	48.79	-	49.09	-	64.08	54.08	-14.99	-
5	0.201	0.30	46.81	-	47.11	-	63.58	53.58	-16.47	-
6	0.220	0.31	45.84	-	46.15	-	62.81	52.81	-16.66	-
7	0.241	0.32	44.37	-	44.69	-	62.06	52.06	-17.37	-
8	0.244	0.32	43.87	-	44.19	-	61.97	51.97	-17.78	-
9	0.259	0.33	42.10	-	42.43	-	61.45	51.45	-19.02	-
10	0.279	0.34	40.71	-	41.05	-	60.85	50.85	-19.80	-
11	0.291	0.35	40.18	-	40.53	-	60.51	50.51	-19.98	-
12	0.318	0.36	37.80	-	38.16	-	59.76	49.76	-21.60	-
13	0.353	0.38	35.50	-	35.88	-	58.89	48.89	-23.01	-
14	0.388	0.39	34.96	-	35.35	-	58.10	48.10	-22.75	-
15	0.438	0.40	34.81	-	35.21	-	57.11	47.11	-21.90	-
16	0.920	0.40	38.98	-	39.38	-	56.00	46.00	-16.62	-

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 4	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.20	53.02	-	53.22	-	66.00	56.00	-12.78	-
2	0.162	0.20	51.37	-	51.57	-	65.38	55.38	-13.81	-
3	0.177	0.20	49.54	-	49.74	-	64.61	54.61	-14.87	-
4	0.197	0.20	47.23	-	47.43	-	63.74	53.74	-16.31	-
5	0.216	0.21	45.65	-	45.86	-	62.96	52.96	-17.10	-
6	0.232	0.22	43.69	-	43.91	-	62.38	52.38	-18.47	-
7	0.252	0.23	42.20	-	42.43	-	61.71	51.71	-19.28	-
8	0.267	0.23	41.05	-	41.28	-	61.20	51.20	-19.92	-
9	0.275	0.24	40.23	-	40.47	-	60.97	50.97	-20.50	-
10	0.298	0.25	38.25	-	38.50	-	60.29	50.29	-21.79	-
11	0.310	0.26	37.07	-	37.33	-	59.97	49.97	-22.64	-
12	0.373	0.29	33.39	-	33.68	-	58.44	48.44	-24.77	-
13	0.388	0.29	33.81	-	34.10	-	58.10	48.10	-24.00	-
14	1.066	0.31	37.79	-	38.10	-	56.00	46.00	-17.90	-
15	2.125	0.41	35.62	-	36.03	-	56.00	46.00	-19.97	-
16	15.688	1.57	33.50	-	35.07	-	60.00	50.00	-24.93	-

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.

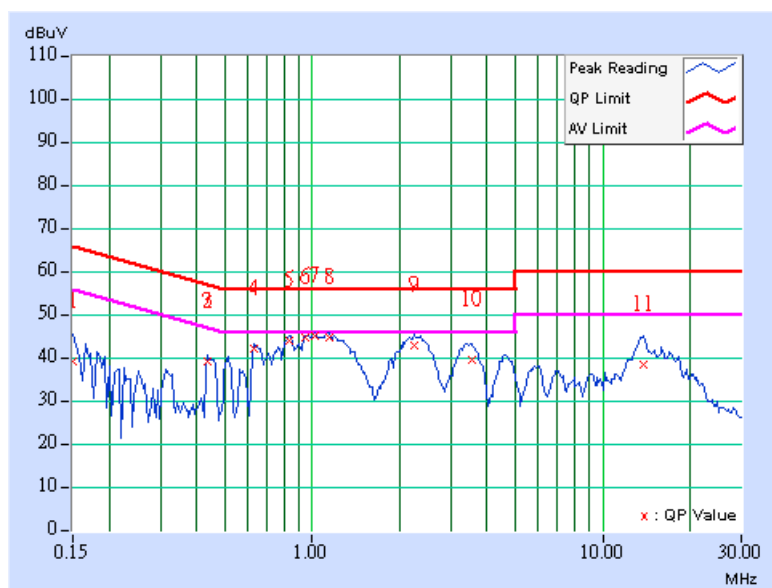


4.1.11 TEST RESULTS (5)

TEST MODE	Mode 5	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.30	37.57	-	37.87	-	66.00	56.00	-28.13	-
2	0.438	0.40	37.80	-	38.20	-	57.10	47.10	-18.90	-
3	0.438	0.40	37.78	-	38.18	-	57.10	47.10	-18.92	-
4	0.634	0.40	40.73	-	41.13	-	56.00	46.00	-14.87	-
5	0.830	0.40	42.64	-	43.04	-	56.00	46.00	-12.96	-
6	0.951	0.40	43.07	-	43.47	-	56.00	46.00	-12.53	-
7	1.018	0.40	43.60	-	44.00	-	56.00	46.00	-12.00	-
8	1.148	0.41	43.10	-	43.51	-	56.00	46.00	-12.49	-
9	2.246	0.52	41.19	-	41.71	-	56.00	46.00	-14.29	-
10	3.555	0.66	37.90	-	38.56	-	56.00	46.00	-17.44	-
11	13.750	1.60	37.05	-	38.65	-	60.00	50.00	-21.35	-

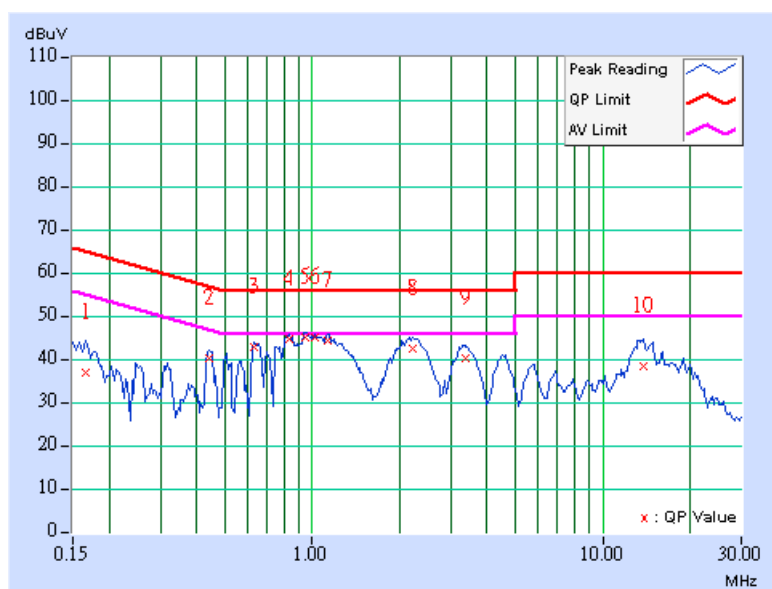
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



TEST MODE	Mode 5	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.166	0.20	35.62	-	35.82	-	65.18	55.18	-29.36	-
2	0.439	0.30	39.03	-	39.33	-	57.08	47.08	-17.75	-
3	0.634	0.30	41.62	-	41.92	-	56.00	46.00	-14.08	-
4	0.829	0.30	43.43	-	43.73	-	56.00	46.00	-12.27	-
5	0.951	0.30	43.89	-	44.19	-	56.00	46.00	-11.81	-
6	1.016	0.30	43.64	-	43.94	-	56.00	46.00	-12.06	-
7	1.133	0.31	43.04	-	43.35	-	56.00	46.00	-12.65	-
8	2.211	0.42	41.09	-	41.51	-	56.00	46.00	-14.49	-
9	3.391	0.54	38.96	-	39.50	-	56.00	46.00	-16.50	-
10	13.773	1.40	37.18	-	38.58	-	60.00	50.00	-21.42	-

- 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.

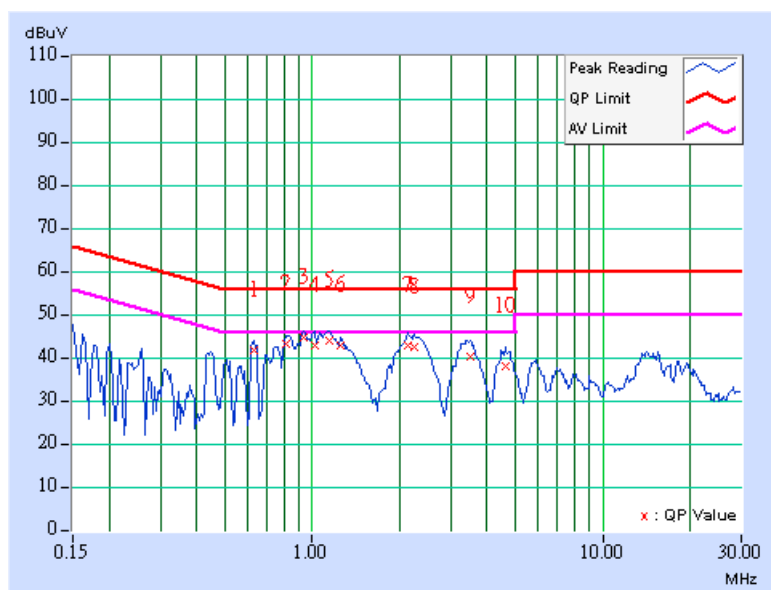


4.1.12 TEST RESULTS (6)

TEST MODE	Mode 6	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Line (L)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.634	0.40	41.17	-	41.57	-	56.00	46.00	-14.43	-
2	0.814	0.40	42.48	-	42.88	-	56.00	46.00	-13.12	-
3	0.935	0.40	43.87	-	44.27	-	56.00	46.00	-11.73	-
4	1.020	0.40	42.24	-	42.64	-	56.00	46.00	-13.36	-
5	1.145	0.41	43.16	-	43.57	-	56.00	46.00	-12.43	-
6	1.246	0.42	42.07	-	42.49	-	56.00	46.00	-13.51	-
7	2.148	0.51	42.17	-	42.68	-	56.00	46.00	-13.32	-
8	2.250	0.53	41.97	-	42.50	-	56.00	46.00	-13.50	-
9	3.500	0.65	39.45	-	40.10	-	56.00	46.00	-15.90	-
10	4.633	0.76	37.26	-	38.02	-	56.00	46.00	-17.98	-

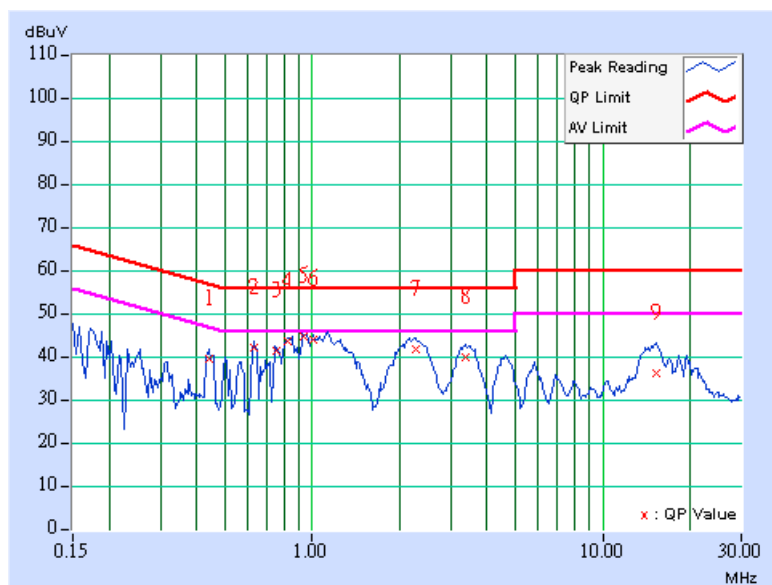
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



TEST MODE	Mode 6	6dB BANDWIDTH	9 kHz
INPUT POWER	120 Vac, 60 Hz	PHASE	Neutral (N)
ENVIRONMENTAL CONDITIONS	23 deg. C, 64% RH, 996 hPa	TESTED BY: Mars Wang	

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	0.439	0.30	38.25	-	38.55	-	57.08	47.08	-18.53	-
2	0.634	0.30	40.86	-	41.16	-	56.00	46.00	-14.84	-
3	0.749	0.30	40.06	-	40.36	-	56.00	46.00	-15.64	-
4	0.825	0.30	42.21	-	42.51	-	56.00	46.00	-13.49	-
5	0.934	0.30	43.25	-	43.55	-	56.00	46.00	-12.45	-
6	1.012	0.30	42.58	-	42.88	-	56.00	46.00	-13.12	-
7	2.266	0.43	40.48	-	40.91	-	56.00	46.00	-15.09	-
8	3.387	0.54	38.54	-	39.08	-	56.00	46.00	-16.92	-
9	15.273	1.53	34.62	-	36.15	-	60.00	50.00	-23.85	-

- 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: 2007, Subpart B (Section: 15.109)

CISPR 22: 1997 (section 6)

ICES-003: 2004 (Class A: Section 5.4)

(Class B: Section 5.5)

FOR FREQUENCY BELOW 1000 MHz

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: 1997, which was specified in FCC PART 15B 15.109(g). Also the limits of ICES-003: 2004 and CISPR 22: 1997 are same.

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	5th harmonic of the highest frequency or 40 GHz, whichever is lower

4.2.2 TEST INSTRUMENTS

Frequency Range 30MHz-1GHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ROHDE & SCHWARZ TEST RECEIVER	ESCS 30	100276	Nov. 04, 2008
CHASE Bilog Antenna	CBL6112B	2433	Apr. 24, 2009
ADT. Turn Table	TT100	0205	NA
ADT. Tower	AT100	0205	NA
Software	ADT_Radiated_V7.6.15	NA	NA
RF COAXIAL Switches	EMH-011	1001	Aug. 15, 2008
WOKEN RF cable	8D	CABLE-ST2-01	Aug. 15, 2008

- 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 ADT Open Site No. 2.
 3. The VCCI Site Registration No. R-237.

Frequency Range 1GHz-40GHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Agilent Spectrum	8564EC	4208A00659	Jun. 04, 2009
Agilent Preamplifier	8449B	3008A01201	Oct. 01, 2008
Agilent Preamplifier	8449B	3008A01292	Aug. 05, 2008
MITEQ Preamplifier	AMF-6F-26040 0-33-8P	892164	May 14, 2009
Schwarzbeck Horn Antenna	BBHA-9170	BBHA9170190	May 14, 2009
Schwarzbeck Horn Antenna	BBHA-9120	D130	May 27, 2009
ADT. Turn Table	TT100	0205	NA
ADT. Tower	AT100	0205	NA
Software	ADT_Radiated_V7.6.15	NA	NA
SUHNER RF cable	SF106-18	PHACAB-1G-40 GHz	Dec. 11, 2008

- 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 ADT Open Site No. 2.
 3. The VCCI Site Registration No. R-237.

4.2.3 TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4-2003 (section 8), CISPR 22 (section 10) and ICES-003: 2004 (section 4).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10-meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters 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 function and Specified Bandwidth with Maximum Hold Mode when test frequency is below 1GHz.
- 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.

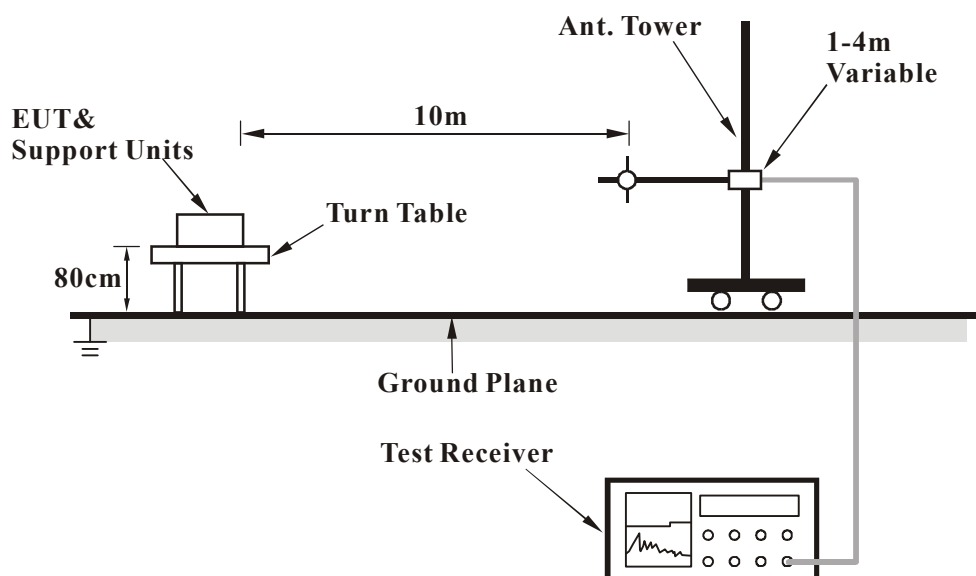
NOTE:

1. The resolution 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-receiving 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

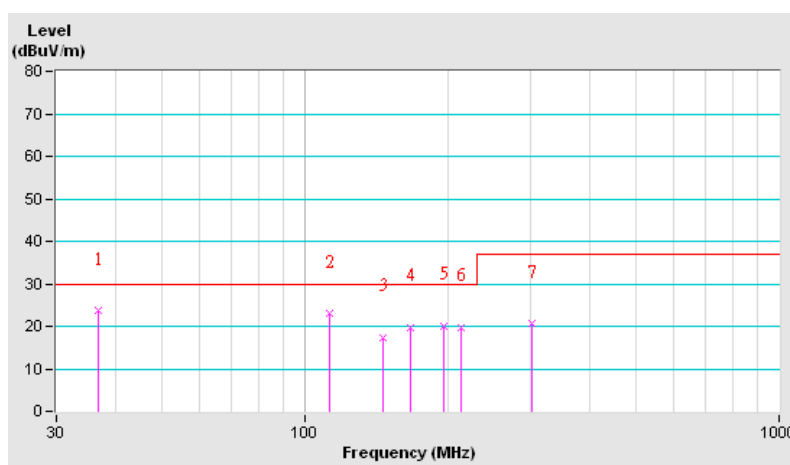
Same as item 4.1.6

4.2.7 TEST RESULTS (1)

TEST MODE	Mode 1	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
ENVIRONMENTAL CONDITIONS	23 deg. C, 82% RH, 998 hPa	TESTED BY: Mars Wang	

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	36.53	23.63 QP	30.00	-6.37	4.00 H	21	6.56	17.07
2	112.60	22.89 QP	30.00	-7.11	4.00 H	2	9.91	12.98
3	146.40	17.42 QP	30.00	-12.58	3.96 H	129	4.77	12.65
4	166.90	19.69 QP	30.00	-10.31	4.00 H	99	8.19	11.50
5	196.10	19.99 QP	30.00	-10.01	4.00 H	170	9.23	10.76
6	213.80	19.69 QP	30.00	-10.31	4.00 H	260	7.81	11.88
7	301.00	20.58 QP	37.00	-16.42	2.68 H	251	4.02	16.56

- 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.

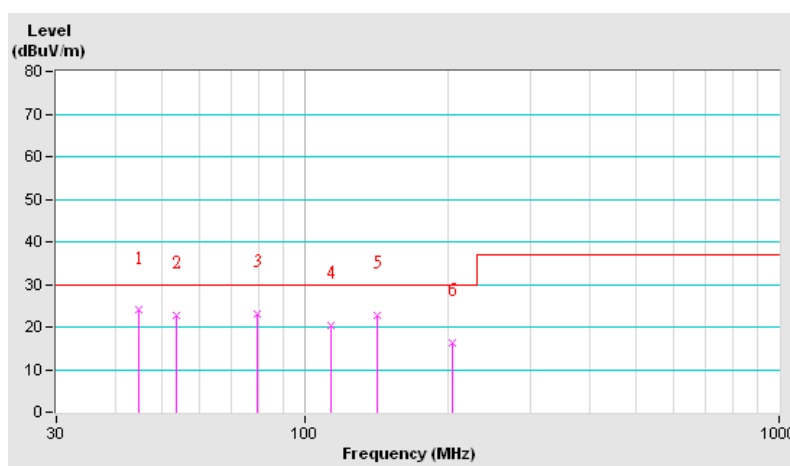


TEST MODE	Mode 1	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 67% RH, 998 hPa	TESTED BY: Mars Wang	

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	44.72	23.96 QP	30.00	-6.04	1.00 V	169	11.39	12.57
2	53.58	22.74 QP	30.00	-7.26	1.00 V	261	13.26	9.48
3	79.43	23.05 QP	30.00	-6.95	2.23 V	66	14.18	8.87
4	113.50	20.47 QP	30.00	-9.53	1.00 V	139	7.38	13.09
5	142.40	22.82 QP	30.00	-7.18	1.00 V	189	10.33	12.49
6	205.20	16.20 QP	30.00	-13.80	1.00 V	247	4.97	11.23

- 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.



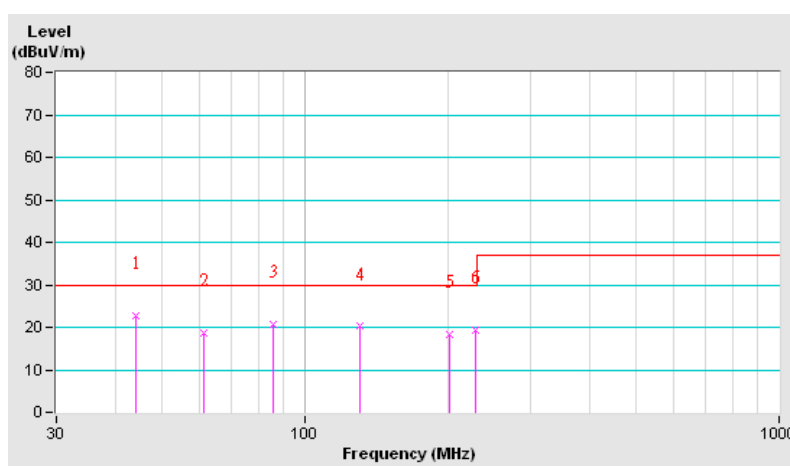
4.2.8 TEST RESULTS (2)

TEST MODE	Mode 2	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 67% RH, 998 hPa	TESTED BY: Mars Wang	

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	43.93	22.71 QP	30.00	-7.29	4.00 H	224	9.68	13.03
2	61.26	18.61 QP	30.00	-11.39	4.00 H	308	11.59	7.02
3	85.87	20.84 QP	30.00	-9.16	4.00 H	262	11.47	9.37
4	130.81	20.17 QP	30.00	-9.83	4.00 H	99	7.08	13.09
5	201.62	18.24 QP	30.00	-11.76	4.00 H	169	7.28	10.96
6	229.08	19.35 QP	30.00	-10.65	4.00 H	253	6.32	13.03

- 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.

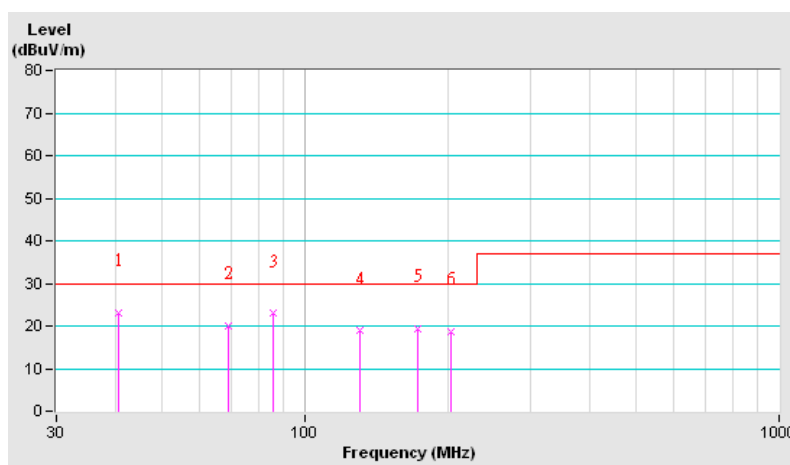


TEST MODE	Mode 2	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 67% RH, 998 hPa	TESTED BY: Mars Wang	

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	40.52	23.06 QP	30.00	-6.94	1.00 V	164	8.01	15.05
2	68.83	20.12 QP	30.00	-9.88	1.00 V	236	12.42	7.70
3	85.74	22.95 QP	30.00	-7.05	1.00 V	279	13.59	9.36
4	130.41	18.86 QP	30.00	-11.14	1.00 V	289	5.74	13.12
5	172.55	19.44 QP	30.00	-10.56	1.00 V	231	8.41	11.03
6	202.63	18.74 QP	30.00	-11.26	1.00 V	173	7.70	11.04

- 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.



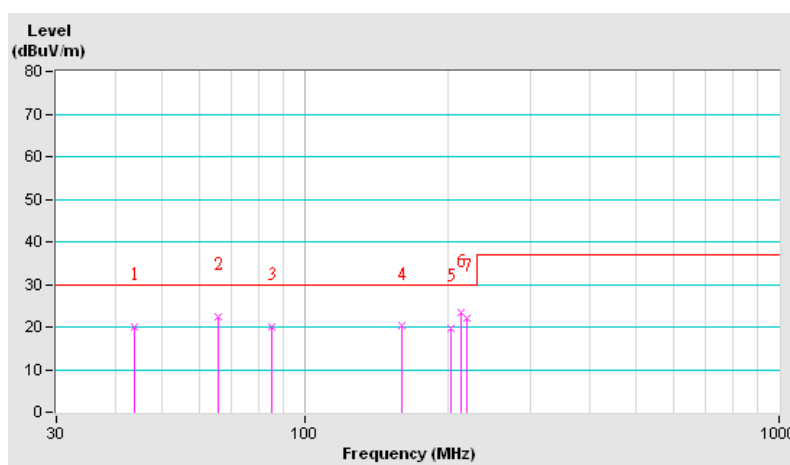
4.2.9 TEST RESULTS (3)

TEST MODE	Mode 3	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 67% RH, 998 hPa	TESTED BY: Mars Wang	

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	43.61	19.97 QP	30.00	-10.03	4.00 H	73	6.75	13.22
2	65.57	22.51 QP	30.00	-7.49	4.00 H	110	15.10	7.41
3	85.03	20.14 QP	30.00	-9.86	4.00 H	168	10.83	9.31
4	159.94	20.17 QP	30.00	-9.83	4.00 H	130	8.09	12.08
5	203.63	19.61 QP	30.00	-10.39	4.00 H	235	8.50	11.11
6	213.47	23.30 QP	30.00	-6.70	4.00 H	281	11.44	11.86
7	219.28	21.95 QP	30.00	-8.05	4.00 H	201	9.66	12.29

- 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.

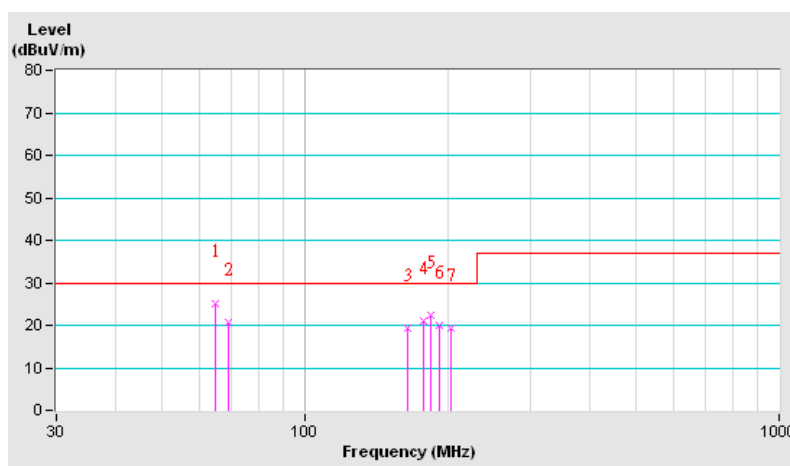


TEST MODE	Mode 3	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	28 deg. C, 67% RH, 998 hPa	TESTED BY: Mars Wang	

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	64.91	25.07 QP	30.00	-4.93	1.00 V	267	17.72	7.35
2	69.18	20.83 QP	30.00	-9.17	1.00 V	234	13.10	7.73
3	165.11	19.37 QP	30.00	-10.63	1.00 V	228	7.72	11.65
4	177.24	21.17 QP	30.00	-8.83	1.00 V	132	10.53	10.64
5	184.09	22.36 QP	30.00	-7.64	1.00 V	163	11.85	10.51
6	192.58	20.13 QP	30.00	-9.87	1.00 V	193	9.45	10.68
7	202.51	19.26 QP	30.00	-10.74	1.00 V	269	8.23	11.03

- 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.



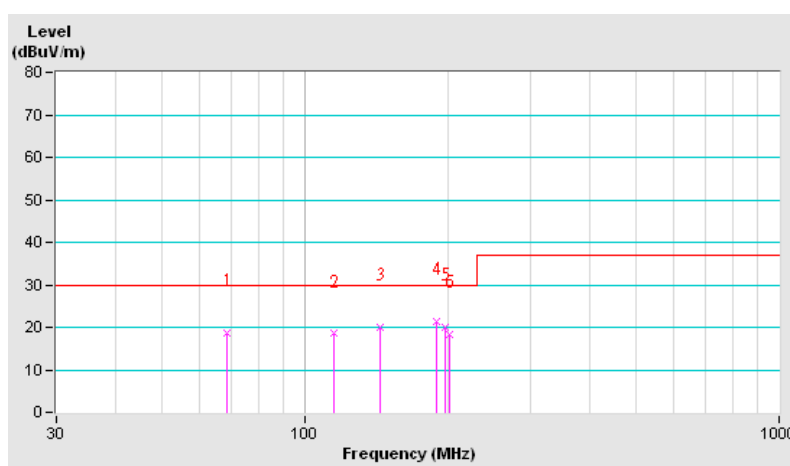
4.2.10 TEST RESULTS (4)

TEST MODE	Mode 4	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
ENVIRONMENTAL CONDITIONS	24 deg. C, 78% RH, 998 hPa	TESTED BY: Mars Wang	

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	68.46	18.63 QP	30.00	-11.37	4.00 H	167	10.97	7.66
2	114.77	18.53 QP	30.00	-11.47	4.00 H	115	5.28	13.25
3	144.49	20.11 QP	30.00	-9.89	4.00 H	12	7.53	12.58
4	189.43	21.30 QP	30.00	-8.70	4.00 H	296	10.68	10.62
5	197.17	20.04 QP	30.00	-9.96	4.00 H	169	9.26	10.78
6	202.33	18.45 QP	30.00	-11.55	4.00 H	212	7.43	11.02

- 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.

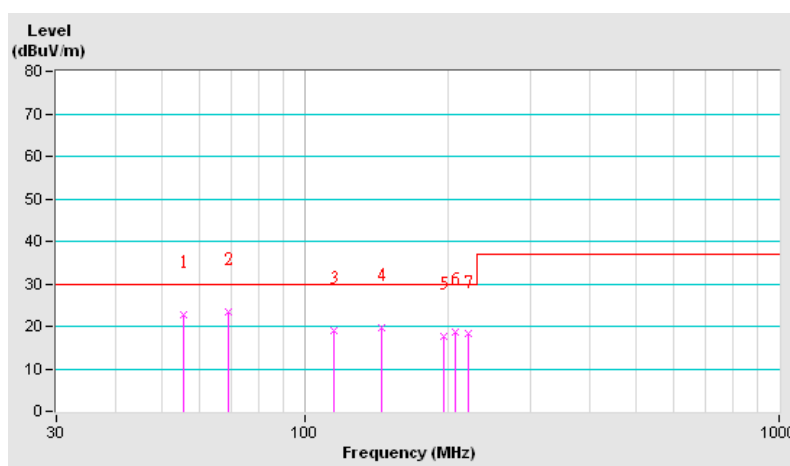


TEST MODE	Mode 4	FREQUENCY RANGE	30-1000 MHz
INPUT POWER	120 Vac, 60 Hz	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	24 deg. C, 78% RH, 998 hPa	TESTED BY: Mars Wang	

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	55.43	22.74 QP	30.00	-7.26	1.00 V	147	14.00	8.74
2	68.74	23.47 QP	30.00	-6.53	1.00 V	92	15.78	7.69
3	115.00	18.90 QP	30.00	-11.10	1.00 V	312	5.62	13.28
4	144.83	19.70 QP	30.00	-10.30	1.00 V	249	7.11	12.59
5	196.71	17.58 QP	30.00	-12.42	1.00 V	102	6.81	10.77
6	208.26	18.77 QP	30.00	-11.23	1.00 V	186	7.31	11.46
7	221.64	18.16 QP	30.00	-11.84	1.00 V	146	5.69	12.47

- 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 (for Mode 1 & 2)



CONDUCTED EMISSION TEST (for Mode 3, 4, 5, 6)



RADIATED EMISSION TEST



6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025:

USA	FCC, UL
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R. O. C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA (MOU)
Russia	CERTIS (MOU)

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:

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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.

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.

--- END ---