



FCC DoC TEST REPORT

REPORT NO.: FD960907L08

MODEL NO.: CPEi 25300

RECEIVED: Sep. 11, 2007

TESTED: Sep. 15 ~ Oct. 09, 2007

ISSUED: Oct. 17, 2007

APPLICANT: Motorola Inc.

ADDRESS: 1475 W Shure Dr., Arlington Heights, Illinois 60004,
U.S.A

ISSUED BY: Advance Data Technology Corporation

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

TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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1 CERTIFICATION

PRODUCT: 2.5 GHz indoor CPE

MODEL: CPEi 25300

BRAND: MOTOROLA

APPLICANT: Motorola Inc.

TESTED: Sep. 15 ~ Oct. 09, 2007

TEST SAMPLE: ENGINEERING SAMPLE

TEST STANDARDS: FCC Part 15, Subpart B, Class B
ANSI C63.4-2003

The above equipment (Model no.: CPEi 25300) 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 : Rennie Wang, **DATE:** Oct. 17, 2007
Rennie Wang

TECHNICAL ACCEPTANCE : Long Chen, **DATE:** Oct. 17, 2007
Responsible for RF Long Chen

APPROVED BY : Gary Chang, **DATE:** Oct. 17, 2007
Gary Chang / Supervisor

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE	RESULT	REMARKS
FCC Part 15, Subpart B, Class B	Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -23.17dB at 0.584MHz.
	Radiated Emission	PASS	Meet the requirement of limit. Minimum passing margin is -1.16dB at 249.60MHz

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:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44dB
Radiated emissions	30MHz ~ 200MHz	3.71dB
	200MHz ~ 1000MHz	3.73dB
	1GHz ~ 18GHz	2.26dB
	18GHz ~ 40GHz	1.94dB

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	2.5 GHz indoor CPE
MODEL NO.	CPEi 25300
POWER SUPPLY	12.0Vdc from power adapter
MODULATION TYPE	QPSK, 16QAM, 64QAM (refer to note 2 for mode detail)
CODING RATE	1/2, 2/3, 3/4 (refer to note 2 for mode detail)
MODULATION TECHNOLOGY	OFDMA
FREQUENCY RANGE	2500MHz ~ 2690MHz
CHANNEL BANDWIDTH	5MHz, 10MHz
MAX. CONDUCTED POWER	27.41dBm
ANTENNA TYPE	Patch array antenna with 7.81dBi (ACON), or 6.00dBi (WAYU) gain
OPERATION TEMPERATURE RANGE	-30°C ~ 50°C
DATA CABLE	1.7m shielded RJ45 cable without core
I/O PORTS	RJ45
ASSOCIATED DEVICES	Adapter

NOTE: 1. The EUT was powered by the following adapter:

BRAND:	DELTA
MODEL:	EADP-24KB B
INPUT:	100-240Vac, 1A, 50~60Hz
OUTPUT:	12Vdc, 2.0A
POWER LINE:	DC: 1.5 m non-shielded without core AC: 1.8 m non-shielded without core

2. For the EUT with modulation type and coding rate:

DOWN LINK		UP LINK	
MODULATION	CODING RATE	MODULATION	CODING RATE
QPSK	1/2	QPSK	1/2
QPSK	3/4	QPSK	3/4
16QAM	1/2	16QAM	1/2
16QAM	3/4	16QAM	3/4
64QAM	1/2		
64QAM	2/3		
64QAM	3/4		

3. The above EUT information was declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Three channels have been tested for each channel bandwidth.

FOR 5MHz CHANNEL BANDWIDTH:

Low channel (L): 2499.0MHz.

Middle channel (M): 2600.0MHz.

High channel (H): 2687.0MHz.

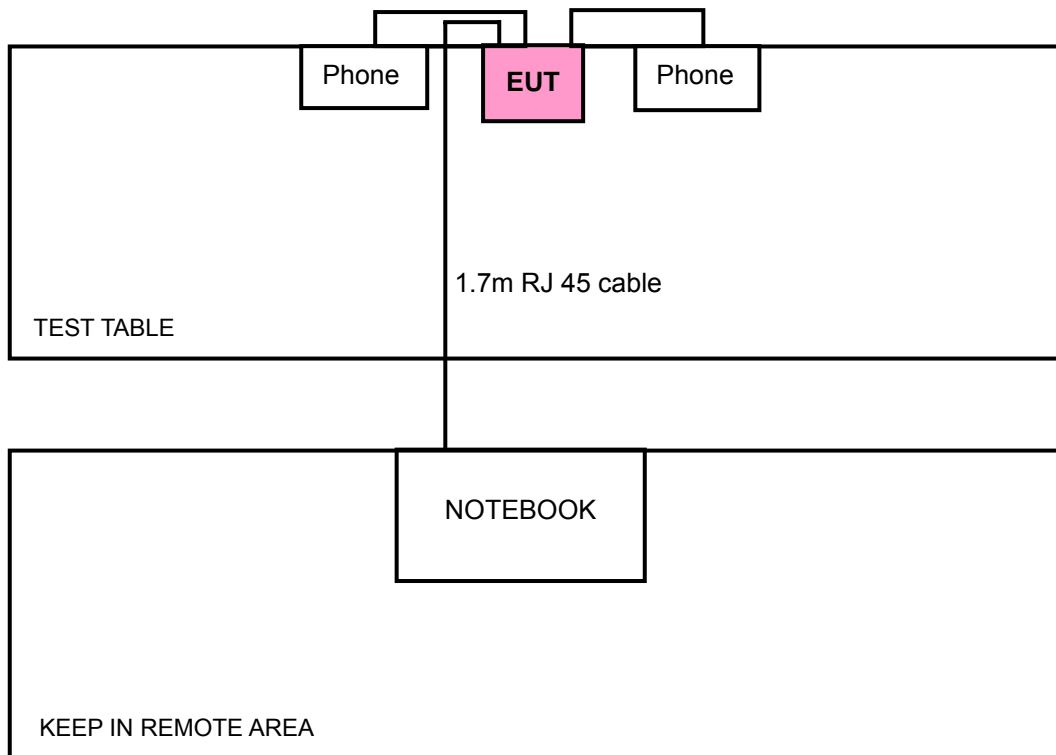
FOR 10MHz CHANNEL BANDWIDTH:

Low channel (L): 2501.0MHz.

Middle channel (M): 2600.0MHz.

High channel (H): 2685.0MHz.

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO			DESCRIPTION
	PLC	RE<1G	RE≥1G	
A	√	√	√	Channel bandwidth: 5MHz
B	-	√	√	Channel bandwidth: 10MHz

Where **PLC**: Power Line Conducted Emission **RE<1G**: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

NOTE: “-“ means no effect.

POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
A	L	OFDMA	QPSK

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
A, B	L	OFDMA	QPSK

RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE
A, B	L, M, H	OFDMA	QPSK



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart B, Class B

ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

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	TELEPHONE	WONDER	WD-303	1F1048	NA
2	TELEPHONE	SONY	IT-10	NA	NA
3	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.8 m non-shielded cable, RJ11 connector, w/o core.
2	1.8 m non-shielded cable, RJ11 connector, w/o core.
3	NA

- NOTE:** 1. All power cords of the above support units are non shielded (1.8m).
2. Item 3 acted as communication partners to transfer data.
3. Item 2 provided by client.

4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 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
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Sep. 21, 2008
RF signal cable Woken	5D-FB	Cable-HYCO3-01	Jan. 06, 2008
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 08, 2008
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 16, 2008
Software ADT	ADT_Cond_V3	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 HwaYa Shielded Room 2.
 3. The VCCI Site Registration No. is C-2047.

4.1.3 TEST PROCEDURES

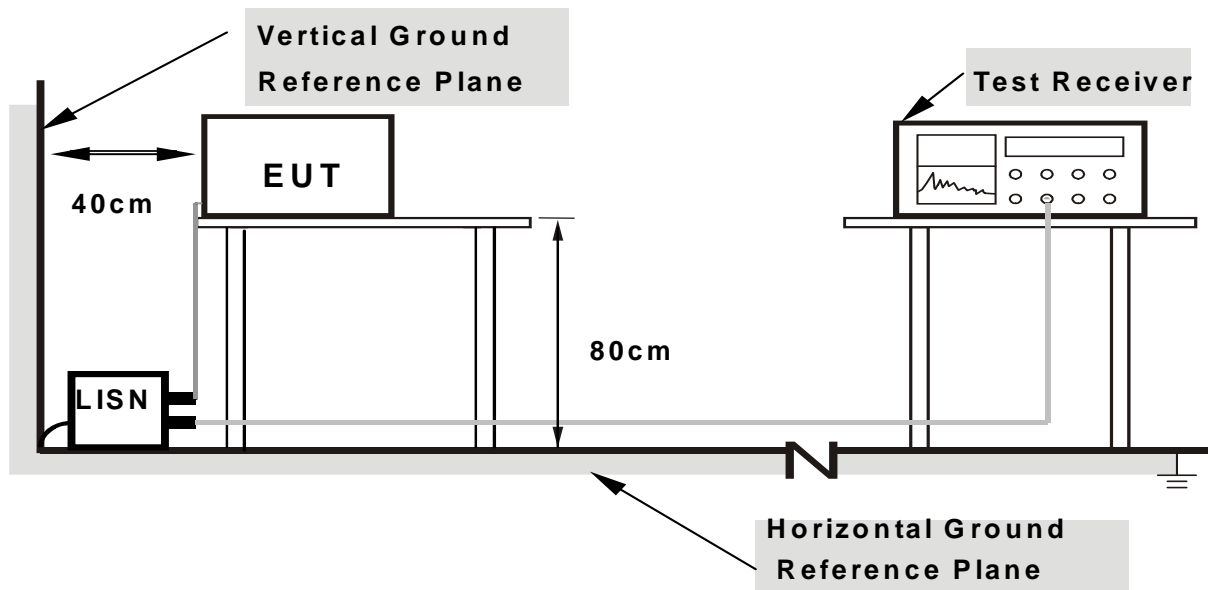
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are 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 attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

The EUT connected to the notebook. Use the software to control the EUT channel and receive.

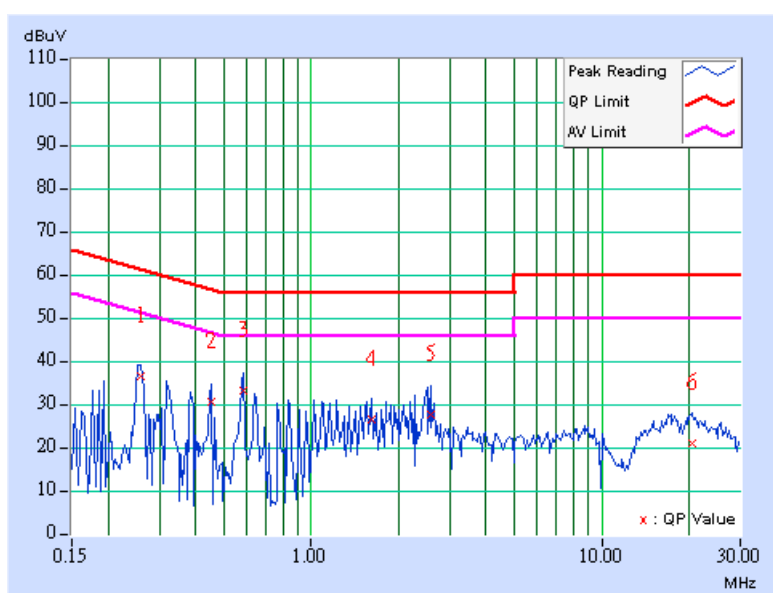
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	PHASE	Line 1
MODULATION TYPE	QPSK	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH 991hPa
TEST MODE	A	TESTED BY	Match Tsui

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	0.259	0.10	36.03	-	36.13	-	61.46	51.46	-25.33	-
2	0.455	0.10	30.12	-	30.22	-	56.79	46.79	-26.57	-
3	0.584	0.10	32.73	-	32.83	-	56.00	46.00	-23.17	-
4	1.605	0.18	25.96	-	26.14	-	56.00	46.00	-29.86	-
5	2.578	0.24	27.01	-	27.25	-	56.00	46.00	-28.75	-
6	20.383	0.59	20.36	-	20.95	-	60.00	50.00	-39.05	-

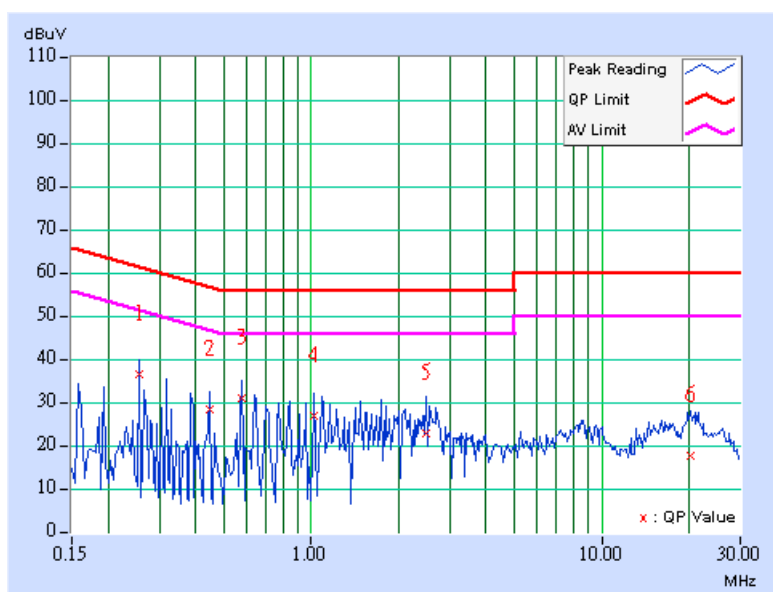
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	PHASE	Line 2
MODULATION TYPE	QPSK	6dB BANDWIDTH	9kHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	20 deg. C, 60%RH 991hPa
TEST MODE	A	TESTED BY	Match Tsui

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	0.255	0.10	36.21	-	36.31	-	61.58	51.58	-25.27	-
2	0.447	0.11	28.01	-	28.12	-	56.93	46.93	-28.81	-
3	0.576	0.13	30.62	-	30.75	-	56.00	46.00	-25.25	-
4	1.027	0.21	26.29	-	26.50	-	56.00	46.00	-29.50	-
5	2.500	0.24	22.30	-	22.54	-	56.00	46.00	-33.46	-
6	20.184	0.58	17.28	-	17.86	-	60.00	50.00	-42.14	-

- 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

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.109 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Jul. 27, 2008
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Feb. 26, 2008
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May 31, 2008
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 28, 2008
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 28, 2007
Preamplifier Agilent	8447D	2944A10633	Oct. 26, 2007
Preamplifier Agilent	8449B	3008A01964	Oct. 26, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238137/4	Dec. 11, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	233233/4	Nov. 14, 2007
Software ADT.	ADT_Radiated_V7.6	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	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 HwaYa Chamber 3.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The VCCI Site Registration No. is R-237.
 5. The IC Site Registration No. is IC3789B-3.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. 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 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak method or average method as specified and then reported in data sheet.

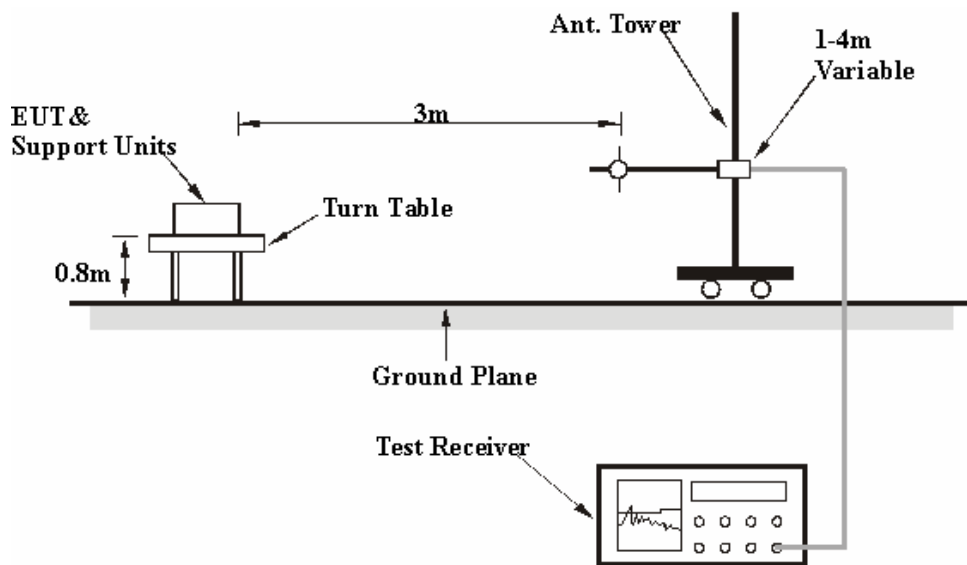
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

RADIATED WORST-CASE DATA:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Quasi-Peak
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 68RH 991hPa
TEST MODE	A (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	167.94	36.17 QP	43.50	-7.33	1.50 H	259	22.26	13.91
2	201.00	37.29 QP	43.50	-6.21	1.50 H	112	25.98	11.30
3	250.00	44.77 QP	46.00	-1.23	1.02 H	213	31.28	13.49
4	401.26	38.93 QP	46.00	-7.07	1.00 H	43	21.24	17.68
5	500.42	40.57 QP	46.00	-5.43	1.50 H	22	20.28	20.29
6	799.84	39.18 QP	46.00	-6.82	1.00 H	10	13.30	25.88
7	900.94	42.43 QP	46.00	-3.57	1.25 H	43	14.81	27.61

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	201.00	38.78 QP	43.50	-4.72	1.00 V	46	27.48	11.30
2	249.60	36.25 QP	46.00	-9.75	1.50 V	220	22.78	13.47
3	401.26	40.01 QP	46.00	-5.99	1.25 V	1	22.33	17.68
4	500.42	37.37 QP	46.00	-8.63	1.00 V	130	17.07	20.29
5	599.58	36.01 QP	46.00	-9.99	1.00 V	175	13.56	22.45
6	799.84	41.13 QP	46.00	-4.87	1.25 V	55	15.24	25.88
7	900.94	40.95 QP	46.00	-5.05	1.00 V	37	13.34	27.61

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Quasi-Peak
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25deg. C, 68RH 991hPa
TEST MODE	A (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	199.05	35.77 QP	43.50	-7.73	1.50 H	346	24.43	11.34
2	249.60	41.61 QP	46.00	-4.39	1.00 H	25	28.13	13.47
3	300.16	37.49 QP	46.00	-8.51	1.00 H	10	22.34	15.14
4	374.04	37.07 QP	46.00	-8.93	1.00 H	334	20.03	17.03
5	399.31	40.87 QP	46.00	-5.13	1.00 H	163	23.24	17.62
6	500.42	40.65 QP	46.00	-5.35	1.50 H	13	20.36	20.29
7	531.53	37.44 QP	46.00	-8.56	1.25 H	25	16.55	20.90
8	799.84	44.70 QP	46.00	-1.30	1.00 H	22	18.81	25.88
9	900.94	41.52 QP	46.00	-4.48	1.50 H	199	13.91	27.61

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	55.18	34.07 QP	40.00	-5.93	1.00 V	304	19.65	14.42
2	68.79	33.40 QP	40.00	-6.60	1.00 V	103	20.55	12.85
3	142.67	37.44 QP	43.50	-6.06	1.00 V	109	23.59	13.85
4	199.05	36.98 QP	43.50	-6.52	1.00 V	25	25.64	11.34
5	249.60	44.73 QP	46.00	-1.27	1.00 V	349	31.26	13.47
6	500.42	37.42 QP	46.00	-8.58	1.50 V	67	17.12	20.29
7	799.84	43.67 QP	46.00	-2.33	1.50 V	79	17.79	25.88
8	900.94	37.72 QP	46.00	-8.28	1.00 V	64	10.11	27.61

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Quasi-Peak
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 68RH 991hPa
TEST MODE	B (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	167.94	35.19 QP	43.50	-8.31	1.50 H	271	21.28	13.91
2	201.00	37.14 QP	43.50	-6.36	1.25 H	97	25.84	11.30
3	250.00	44.64 QP	46.00	-1.36	1.15 H	208	31.15	13.49
4	401.26	40.69 QP	46.00	-5.31	1.00 H	52	23.01	17.68
5	500.42	38.90 QP	46.00	-7.10	2.00 H	31	18.61	20.29
6	700.68	36.45 QP	46.00	-9.55	1.00 H	346	12.23	24.22
7	799.84	40.40 QP	46.00	-5.60	1.00 H	142	14.52	25.88
8	900.94	42.12 QP	46.00	-3.88	1.25 H	43	14.50	27.61

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	201.00	38.12 QP	43.50	-5.38	1.00 V	61	26.82	11.30
2	249.60	38.04 QP	46.00	-7.96	1.50 V	226	24.57	13.47
3	401.26	39.55 QP	46.00	-6.45	1.25 V	121	21.86	17.68
4	500.42	38.26 QP	46.00	-7.74	1.00 V	325	17.97	20.29
5	599.58	36.39 QP	46.00	-9.61	1.00 V	160	13.94	22.45
6	799.84	40.05 QP	46.00	-5.95	2.00 V	97	14.16	25.88
7	900.94	41.76 QP	46.00	-4.24	1.00 V	34	14.15	27.61

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Quasi-Peak
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25deg. C, 68RH 991hPa
TEST MODE	B (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	115.45	34.96 QP	43.50	-8.54	1.50 H	82	22.88	12.08
2	134.89	35.09 QP	43.50	-8.41	2.00 H	97	21.63	13.47
3	175.72	34.96 QP	43.50	-8.54	2.00 H	91	21.63	13.32
4	199.05	35.19 QP	43.50	-8.31	1.25 H	319	23.85	11.34
5	249.60	42.23 QP	46.00	-3.77	1.25 H	10	28.76	13.47
6	399.31	39.19 QP	46.00	-6.81	1.00 H	169	21.56	17.62
7	500.42	40.05 QP	46.00	-5.95	1.50 H	25	19.76	20.29
8	799.84	44.65 QP	46.00	-1.35	1.00 H	31	18.77	25.88
9	900.94	40.39 QP	46.00	-5.61	1.50 H	16	12.77	27.61

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	37.68	33.76 QP	40.00	-6.24	1.00 V	181	19.46	14.30
2	72.67	35.27 QP	40.00	-4.73	1.00 V	112	23.14	12.13
3	111.56	37.11 QP	43.50	-6.39	1.00 V	127	25.51	11.61
4	142.67	36.86 QP	43.50	-6.64	1.00 V	85	23.01	13.85
5	199.05	36.07 QP	43.50	-7.43	1.00 V	10	24.72	11.34
6	249.60	44.84 QP	46.00	-1.16	1.00 V	343	31.37	13.47
7	799.84	42.00 QP	46.00	-4.00	1.50 V	76	16.11	25.88
8	900.94	37.02 QP	46.00	-8.98	1.00 V	52	9.40	27.61

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 71%RH 991hPa
TEST MODE	A (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1400.00	46.35 PK	74.00	-27.65	1.00 H	21	17.18	29.17
2	1400.00	41.09 AV	54.00	-12.91	1.00 H	21	11.92	29.17

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1400.00	47.26 PK	74.00	-26.74	1.25 V	82	18.09	29.17
2	1400.00	40.11 AV	54.00	-13.89	1.25 V	82	10.94	29.17

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Middle channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 71%RH 991hPa
TEST MODE	A (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	2600.00	46.23 PK	74.00	-27.77	1.00 H	23	13.59	32.64
2	2600.00	40.52 AV	54.00	-13.48	1.00 H	23	7.88	32.64

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1400.00	45.72 PK	74.00	-28.28	1.26 V	113	16.55	29.17
2	1400.00	39.68 AV	54.00	-14.32	1.26 V	113	10.51	29.17

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	High channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 71%RH 991hPa
TEST MODE	A (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1400.00	46.13 PK	74.00	-27.87	1.00 H	5	16.96	29.17
2	1400.00	40.21 AV	54.00	-13.79	1.00 H	5	11.04	29.17

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1400.00	45.36 PK	74.00	-28.64	1.22 V	65	16.19	29.17
2	1400.00	39.11 AV	54.00	-14.89	1.22 V	65	9.94	29.17

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 68%RH 991hPa
TEST MODE	A (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1200.00	45.10 PK	74.00	-28.90	1.00 H	102	15.54	29.56
2	1200.00	37.92 AV	54.00	-16.08	1.00 H	102	8.36	29.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1200.00	47.65 PK	74.00	-26.35	1.00 V	115	18.09	29.56
2	1200.00	41.32 AV	54.00	-12.68	1.00 V	115	11.76	29.56

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Middle channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 68%RH 991hPa
TEST MODE	A (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1200.00	44.87 PK	74.00	-29.13	1.00 H	64	15.31	29.56
2	1200.00	37.76 AV	54.00	-16.24	1.00 H	64	8.20	29.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1200.00	46.95 PK	74.00	-27.05	1.00 V	165	17.39	29.56
2	1200.00	41.08 AV	54.00	-12.92	1.00 V	165	11.52	29.56

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	High channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 68%RH 991hPa
TEST MODE	A (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1200.00	44.05 PK	74.00	-29.95	1.59 H	13	14.49	29.56
2	1200.00	37.03 AV	54.00	-16.97	1.59 H	13	7.47	29.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1200.00	46.42 PK	74.00	-27.58	1.00 V	194	16.86	29.56
2	1200.00	40.65 AV	54.00	-13.35	1.00 V	194	11.09	29.56

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 71%RH 991hPa
TEST MODE	B (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1400.00	46.52 PK	74.00	-27.48	1.00 H	15	17.35	29.17
2	1400.00	41.23 AV	54.00	-12.77	1.00 H	15	12.06	29.17

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1400.00	46.89 PK	74.00	-27.11	1.26 V	72	17.72	29.17
2	1400.00	39.72 AV	54.00	-14.28	1.26 V	72	10.55	29.17

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Middle channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 71%RH 991hPa
TEST MODE	B (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1400.00	46.10 PK	74.00	-27.90	1.00 H	16	16.93	29.17
2	1400.00	40.26 AV	54.00	-13.74	1.00 H	16	11.09	29.17

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1400.00	45.26 PK	74.00	-28.74	1.35 V	102	16.09	29.17
2	1400.00	39.13 AV	54.00	-14.87	1.35 V	102	9.96	29.17

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	High channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	24 deg. C, 71%RH 991hPa
TEST MODE	B (ACON antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1400.00	45.68 PK	74.00	-28.32	1.00 H	2	16.51	29.17
2	1400.00	39.57 AV	54.00	-14.43	1.00 H	2	10.40	29.17

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1400.00	44.95 PK	74.00	-29.05	1.42 V	83	15.78	29.17
2	1400.00	38.64 AV	54.00	-15.36	1.42 V	83	9.47	29.17

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Low channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 68%RH 991hPa
TEST MODE	B (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1200.00	45.67 PK	74.00	-28.33	1.03 H	54	16.11	29.56
2	1200.00	38.42 AV	54.00	-15.58	1.03 H	54	8.86	29.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1200.00	47.92 PK	74.00	-26.08	1.00 V	203	18.36	29.56
2	1200.00	41.68 AV	54.00	-12.32	1.00 V	203	12.12	29.56

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Middle channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 68%RH 991hPa
TEST MODE	B (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1200.00	45.32 PK	74.00	-28.68	1.00 H	258	15.76	29.56
2	1200.00	38.17 AV	54.00	-15.83	1.00 H	258	8.61	29.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1200.00	46.71 PK	74.00	-27.29	1.00 V	262	17.15	29.56
2	1200.00	40.85 AV	54.00	-13.15	1.00 V	262	11.29	29.56

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	High channel	FREQUENCY RANGE	1 ~ 27GHz
MODULATION TYPE	QPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	25 deg. C, 68%RH 991hPa
TEST MODE	B (WAYU antenna)	TESTED BY	Dean Wang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1200.00	44.85 PK	74.00	-29.15	1.28 H	29	15.29	29.56
2	1200.00	37.68 AV	54.00	-16.32	1.28 H	29	8.12	29.56

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1200.00	46.92 PK	74.00	-27.08	1.00 V	257	17.36	29.56
2	1200.00	41.36 AV	54.00	-12.64	1.00 V	257	11.80	29.56

- 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.



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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, A2LA
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:

Linko EMC/RF Lab

Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab

Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab

Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

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



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.