

FCC CERTIFICATION TEST REPORT

REPORT NO.: FD120131C05

MODEL NO.: T-02D

TESTED: Jan. 31, 2012 Mar. 24, 2012 ISSUED: Apr. 16, 2012

APPLICANT: FUJITSU LIMITED

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ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)

Ltd., Taoyuan Branch

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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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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FD120131C05	Original release	Apr. 16, 2012

Report No.: FD120131C05 3 Report Format Version 4.0.0



1. CERTIFICATION

PRODUCT: Mobile Phone

MODEL: T-02D

BRAND: Xi

APPLICANT: FUJITSU LIMITED

TEST SAMPLE: ENGINEERING SAMPLE

TESTED: Mar. 24, 2012

STANDARDS: FCC Part 15, Subpart B, Class B

The above equipment (Model: T-02D) 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 : , DATE: Apr. 16, 2012

Pettie Chen / Specialist

APPROVED BY : , DATE: Apr. 16, 2012

Gary Chang / Technical Manager



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

Standard Section	Test Type	Result	Remark
FCC Part 15, Subpart B,	Conducted Emission		Meet the requirement of limit. Minimum passing margin is -10.68dB at 0.33359MHz.
Class B	Radiated Emission	PASS	Meet the requirement of limit. Minimum passing margin is -3.2dB at 45.45MHz.

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	150kHz~30MHz	2.44 dB
	30MHz ~ 200MHz	3.34 dB
Radiated emissions	200MHz ~1000MHz	3.35 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

EUT	Mobile Phone			
MODEL NO.	T-02D			
POWER SUPPLY	,	.7Vdc (Li-ion battery) .0Vdc (Adapter)		
	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
MODULATION	BLUETOOTH	GFSK, π /4-DQPSK, 8DPSK		
TYPE	RFID	ASK		
	GSM, GPRS	GMSK		
	WCDMA	BPSK		
	WLAN	2412 ~ 2462MHz, 5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz		
	BLUETOOTH	2402 ~ 2480MHz		
FREQUENCY	RFID	13.56MHz		
RANGE	GSM 850	824.2MHz ~ 848.8MHz		
	PCS 1900	1850.2MHz ~ 1909.8MHz		
	WCDMA 850	826.4MHz ~ 846.6MHz		
ANTENNA TYPE	WLAN	2.4GHz Band: λ/4 Monopole Antenna with -11.8dBi gain 5180 ~ 5240MHz: λ/4 Monopole Antenna with -1.9dBi gain 5260 ~ 5320MHz: λ/4 Monopole Antenna with -1.1dBi gain 5500 ~ 5700MHz: λ/4 Monopole Antenna with -2.2dBi gain 5745 ~ 5825MHz: λ/4 Monopole Antenna with -1.2dBi gain		
	BLUETOOTH	λ/4 Monopole Antenna with -11.8dBi gain		
	RFID	Loop antenna		
	GSM 850 WCDMA 850	λ/4 Monopole antenna with -2.7dBi gain		
	PCS1900	λ/4 Monopole antenna with -1.1dBi gain		
DATA CABLE	NA			
I/O PORTS	Refer to user's manual			
ACCESSORY DEVICES	Battery, adapter			



NOTE:

1. The EUT provides one completed transmitter and one receiver for WLAN.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11a	1TX
802.11n (20MHz)	1TX

2. The EUT use the following adapter and internal Li-ion battery:

Adapter	
BRAND	NTT docomo
MODEL	TA08017-B219
INPUT	100-240Vac, 50-60Hz, 0.22A
OUTPUT	5.0Vdc, 1.8A

Li-ion battery				
BRAND	Fujitsu Limited			
MODEL	F25			
RATING	3.7V,1800mAh, 6.7Wh			

- 3. SW: R07.1.4. HW: V2.1.0.
- 5. IMEI Code: 351537050017447.
- 6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3.2 DESCRIPTION OF TEST MODES

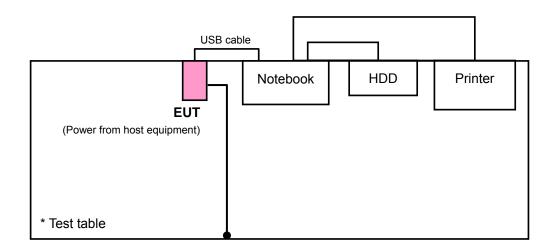
Test modes are presented in the report as below.

TEST MODE	DESCRIPTION		
A1	USB R/W + WIFI+ BT + Idle mode: GSM 850		
A2	USB R/W + WIFI+ BT + Idle mode: PCS 1900		
А3	USB R/W + WIFI+ BT + Idle mode: WCDMA850		
В	GPS Rx		

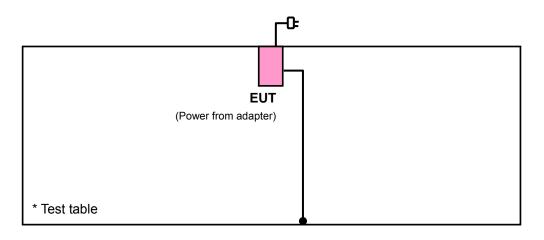
^{*}For radiated emission test, the EUT has been pre-tested X, Y & Z axis, found X axis is the worst mode.

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

For Test Mode A1, A2, A3



For Test Mode B





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	DELL	E5420	33MLMQ1	FCC DoC Approved
2	PRINTER	EPSON	B241A	FAPY139300	FCC DoC Approved
3	EXTERNAL USB 1.1 FLOPPY	SONY	MPF82E	50010133	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS	
1	1.1m USB cable.	
2	1.8m shielded cable, terminated with USB connector, w/o core.	
3	0.6m shielded USB wire, w/o core.	

NOTE:

- 1. All power cords of the above support units are non shielded (1.8m).
- 2. The 1.1m USB cable was supplied from the client.

3.4 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.



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 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.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100212	Aug. 02, 2011	Aug. 01, 2012
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Jul. 21, 2011	Jul. 20, 2012
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 13, 2011	Apr. 12, 2012
HORN Antenna SCHWARZBECK	9120D	209	Aug. 25, 2011	Aug. 24, 2012
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 20, 2011	Jul. 19, 2012
Preamplifier Agilent	8447D	2944A10633	Oct. 29, 2011	Oct. 28, 2012
Preamplifier Agilent	8449B	3008A01964	Oct. 29, 2011	Oct. 28, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250723/4	Aug. 30, 2011	Aug. 29, 2012
RF signal cable HUBER+SUHNNER	SUCOFLEX 106	12738/6+309224/ 4	Aug. 30, 2011	Aug. 29, 2012
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100	TT93021703	NA	NA
Turn Table Controller ADT.	SC100	SC93021703	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 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 FCC Site Registration No. is 988962.
- 5. The IC Site Registration No. is IC 7450F-3.



4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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 or average method as specified and then reported in a data sheet.

NOTE:

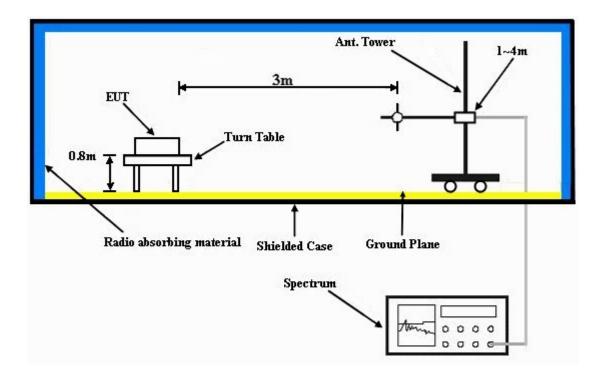
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
- 3. All modes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



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

4.1.6 EUT OPERATING CONDITIONS

For Test Mode A1, A2, A3

- a. Connected the EUT to a notebook and placed on a testing table.
- b. Set WWAN in idle mode.
- c. The notebook executes EMC TEST tool to read data and write data to microSD of EUT via USB cable.
- d. The necessary accessories enable the system in full functions.

For Test Mode B

- a. Placed the EUT with earphone on testing table.
- b. Set the EUT under GPS RX condition.
- c. The necessary accessories enable the system in full functions.



4.1.7 TEST RESULTS

ABOVE 1GHz DATA:

EUT TEST CONDITION		MEASUREMENT DETAIL		
INPUT POWER (SYSTEM) 120Vac, 60Hz		FREQUENCY RANGE	1 ~ 12.5GHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Peak (PK) Average (AV)	
TESTED BY	Peter Lin	TEST MODE	A1	

		ANTENNA	POLARITY	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	1742.38	50.9 PK	74.0	-23.1	1.00 H	144	21.55	29.39				
2	1742.38	33.4 AV	54.0	-20.6	1.00 H	144	4.03	29.39				
3	2023.96	53.4 PK	74.0	-20.6	1.13 H	320	23.46	29.93				
4	2023.96	36.0 AV	54.0	-18.0	1.13 H	320	6.04	29.93				
5	2603.61	45.9 PK	74.0	-28.1	1.07 H	115	13.83	32.03				
6	2603.61	33.7 AV	54.0	-20.3	1.07 H	115	1.64	32.03				
		ANTENNA	A POLARIT	Y & TEST DI	STANCE: V	ERTICAL A	T 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	2085.14	56.4 PK	74.0	-17.6	1.00 V	136	26.26	30.17				
2	2085.14	36.6 AV	54.0	-17.4	1.00 V	136	6.40	30.17				
3	2591.70	52.2 PK	74.0	-21.8	1.00 V	163	20.25	31.99				
၁												
4	2591.70	37.6 AV	54.0	-16.4	1.00 V	163	5.61	31.99				
_	2591.70 5320.43	37.6 AV 52.1 PK	54.0 74.0	-16.4 -21.9	1.00 V 1.05 V	163 255	5.61 14.07	31.99 38.05				

- 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		
INPUT POWER (SYSTEM) 120Vac, 60Hz		FREQUENCY RANGE	1 ~ 12.5GHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Peak (PK) Average (AV)	
TESTED BY	Peter Lin	TEST MODE	A2	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	1743.09	50.4 PK	74.0	-23.6	1.00 H	150	21.05	29.39
2	1743.09	33.2 AV	54.0	-20.8	1.00 H	150	3.80	29.39
3	2022.48	53.0 PK	74.0	-21.0	1.09 H	311	23.09	29.93
4	2022.48	35.8 AV	54.0	-18.2	1.09 H	311	5.87	29.93
5	2601.87	45.5 PK	74.0	-28.5	1.06 H	112	13.45	32.02
6	2601.87	33.5 AV	54.0	-20.5	1.06 H	112	1.46	32.02
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	2085.23	55.9 PK	74.0	-18.1	1.00 V	126	25.73	30.17
2	2085.23	36.0 AV	54.0	-18.0	1.00 V	126	5.81	30.17
3	2590.43	51.3 PK	74.0	-22.7	1.00 V	159	19.27	31.99
4	2590.43	37.5 AV	54.0	-16.6	1.00 V	159	5.46	31.99
5	5321.05	51.9 PK	74.0	-22.1	1.05 V	253	13.84	38.05
6	5321.05	38.9 AV	54.0	-15.1	1.05 V	253	0.81	38.05

- 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		
INPUT POWER (SYSTEM) 120Vac, 60Hz		FREQUENCY RANGE	1 ~ 12.5GHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Peak (PK) Average (AV)	
TESTED BY	Peter Lin	TEST MODE	A3	

	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	1743.04	50.2 PK	74.0	-23.8	1.00 H	156	20.80	29.39	
2	1743.04	33.1 AV	54.0	-21.0	1.00 H	156	3.66	29.39	
3	2020.89	52.8 PK	74.0	-21.2	1.06 H	314	22.87	29.92	
4	2020.89	35.6 AV	54.0	-18.4	1.06 H	314	5.69	29.92	
5	2604.03	45.1 PK	74.0	-28.9	1.05 H	123	13.03	32.03	
6	2604.03	33.2 AV	54.0	-20.8	1.05 H	123	1.14	32.03	
		ANTENNA	POLARITY	Y & TEST DI	STANCE: V	ERTICAL A	T 3 M		
	O. FREQ. (MHz) EMISSION LEVEL LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) ANGLE RAW VALUE (dBuV) FACTOR								
NO.	FREQ. (MHz)			MARGIN (dB)		.,			
NO .	FREQ. (MHz) 2086.47	LEVEL		MARGIN (dB) -18.3		ANGLE		FACTOR	
	, ,	LEVEL (dBuV/m)	(dBuV/m)	` ′	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)	
1	2086.47	LEVEL (dBuV/m) 55.7 PK	(dBuV/m) 74.0	-18.3	HEIGHT (m) 1.00 V	ANGLE (Degree)	(dBuV) 25.50	FACTOR (dB/m) 30.18	
1 2	2086.47 2086.47	LEVEL (dBuV/m) 55.7 PK 35.9 AV	(dBuV/m) 74.0 54.0	-18.3 -18.1	1.00 V 1.00 V	ANGLE (Degree) 122 122	(dBuV) 25.50 5.72	FACTOR (dB/m) 30.18 30.18	
1 2 3	2086.47 2086.47 2591.31	LEVEL (dBuV/m) 55.7 PK 35.9 AV 51.5 PK	(dBuV/m) 74.0 54.0 74.0	-18.3 -18.1 -22.5	1.00 V 1.00 V 1.00 V	ANGLE (Degree) 122 122 153	(dBuV) 25.50 5.72 19.51	FACTOR (dB/m) 30.18 30.18 31.99	

- 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		
INPUT POWER (SYSTEM) 120Vac, 60Hz		FREQUENCY RANGE	1 ~ 12.5GHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Peak (PK) Average (AV)	
TESTED BY	Peter Lin	TEST MODE	В	

	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	3184.09	46.2 PK	74.0	-27.8	1.00 H	347	12.92	33.31		
2	3184.09	35.3 AV	54.0	-18.7	1.00 H	347	1.95	33.31		
3	3403.25	47.7 PK	74.0	-26.3	1.06 H	118	14.13	33.60		
4	3403.25	35.2 AV	54.0	-18.8	1.06 H	118	1.58	33.60		
5	5236.10	49.2 PK	74.0	-24.8	1.00 H	106	11.30	37.94		
6	5236.10	38.9 AV	54.0	-15.1	1.00 H	106	0.95	37.94		
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M			
	O. FREQ. (MHz) EMISSION LIMIT (dBuV/m) MARGIN (dB) HEIGHT (m) TABLE ANTENNA HEIGHT (m) ANGLE (dBuV) FACTOR									
NO.	FREQ. (MHz)			MARGIN (dB)	7			CORRECTION FACTOR (dB/m)		
NO .	FREQ. (MHz) 2332.57	LEVEL		MARGIN (dB) -30.8	7	ANGLE		FACTOR		
	` ,	LEVEL (dBuV/m)	(dBuV/m)	` ,	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m)		
1	2332.57	LEVEL (dBuV/m) 43.2 PK	(dBuV/m) 74.0	-30.8	HEIGHT (m)	ANGLE (Degree)	(dBuV)	FACTOR (dB/m) 31.12		
1 2	2332.57 2332.57	LEVEL (dBuV/m) 43.2 PK 33.0 AV	(dBuV/m) 74.0 54.0	-30.8 -21.0	1.00 V 1.00 V	ANGLE (Degree) 189	(dBuV) 12.09 1.92	FACTOR (dB/m) 31.12 31.12		
1 2 3	2332.57 2332.57 3241.80	LEVEL (dBuV/m) 43.2 PK 33.0 AV 46.7 PK	(dBuV/m) 74.0 54.0 74.0	-30.8 -21.0 -27.3	1.00 V 1.00 V 1.00 V	ANGLE (Degree) 189 189	(dBuV) 12.09 1.92 13.31	FACTOR (dB/m) 31.12 31.12 33.40		

- 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.



BELOW 1GHz WORST-CASE DATA:

EUT TEST CONDITION		MEASUREMENT DETAIL		
INPUT POWER (SYSTEM) 120Vac, 60Hz		FREQUENCY RANGE	Below 1000MHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Quasi-Peak	
TESTED BY	Peter Lin	TEST MODE	A1	

	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	45.45	36.8 QP	40.00	-3.2	2.00 H	20	22.85	13.98		
2	94.06	33.7 QP	43.50	-9.8	2.00 H	20	25.00	8.70		
3	179.61	39.9 QP	43.50	-3.6	1.50 H	20	27.31	12.63		
4	300.16	34.8 QP	46.00	-11.2	1.25 H	0	19.85	14.95		
5	659.85	41.4 QP	46.00	-4.6	1.75 H	0	18.75	22.64		
6	780.40	37.5 QP	46.00	-8.5	1.50 H	20	12.36	25.10		
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	45.45	35.4 QP	40.00	-4.6	1.00 V	0	21.38	13.98		
2	179.61	37.2 QP	43.50	-6.3	1.00 V	0	24.54	12.63		
3	239.88	31.1 QP	46.00	-14.9	1.24 V	19	18.47	12.62		
4	300.16	30.8 QP	46.00	-15.2	1.99 V	0	15.85	14.95		
	659.85	32.8 QP	46.00	-13.2	1.99 V	0	10.14	22.64		
5	039.63	32.0 QF	40.00	-13.2	1.99 V	U	10.14	22.04		

- 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		
INPUT POWER (SYSTEM) 120Vac, 60Hz		FREQUENCY RANGE	Below 1000MHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Quasi-Peak	
TESTED BY	Peter Lin	TEST MODE	A2	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	86.28	29.0 QP	40.00	-11.0	2.00 H	0	20.14	8.84
2	179.61	36.8 QP	43.50	-6.7	1.50 H	0	24.14	12.63
3	300.16	35.3 QP	46.00	-10.7	1.50 H	0	20.32	14.95
4	659.85	38.0 QP	46.00	-8.0	1.00 H	0	15.39	22.64
5	720.12	30.9 QP	46.00	-15.1	2.00 H	0	7.32	23.53
6	780.40	35.5 QP	46.00	-10.5	1.50 H	0	10.40	25.10
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	LIMIT ANTENNA RAW VALUE							CORRECTION FACTOR (dB/m)
1	45.45	35.1 QP	40.00	-4.9	1.00 V	19	21.12	13.98
2	142.67	32.6 QP	43.50	-10.9	1.00 V	19	18.84	13.74
3	179.61	38.8 QP	43.50	-4.7	1.00 V	19	26.14	12.63
4	659.85	34.3 QP	46.00	-11.7	1.00 V	19	11.68	22.64
	720.12	32.8 QP	46.00	-13.2	1.25 V	0	9.24	23.53
5	120.12	32.0 QI	+0.00	10.2	1.20 1	•	0.21	20.00

- 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		
INPUT POWER (SYSTEM)	120Vac, 60Hz	FREQUENCY RANGE	Below 1000MHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Quasi-Peak	
TESTED BY	Peter Lin	TEST MODE	A3	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	94.06	30.2 QP	43.50	-13.4	2.00 H	20	21.45	8.70
2	179.61	36.4 QP	43.50	-7.1	1.25 H	0	23.76	12.63
3	239.88	29.6 QP	46.00	-16.4	1.25 H	0	16.97	12.62
4	300.16	39.2 QP	46.00	-6.8	1.25 H	0	24.26	14.95
5	659.85	38.1 QP	46.00	-7.9	2.00 H	20	15.42	22.64
6	780.40	35.1 QP	46.00	-10.9	1.75 H	0	9.98	25.10
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	45.45	34.6 QP	40.00	-5.4	1.00 V	19	20.61	13.98
2	142.67	32.9 QP	43.50	-10.6	1.00 V	19	19.19	13.74
3	179.61	39.4 QP	43.50	-4.1	1.00 V	19	26.77	12.63
4	239.88	32.8 QP	46.00	-13.2	1.24 V	0	20.22	12.62
5	780.40	38.7 QP	46.00	-7.3	1.00 V	19	13.57	25.10
6	840.67	33.0 QP	46.00	-13.0	1.00 V	19	6.90	26.10

- 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		
INPUT POWER (SYSTEM)	120Vac, 60Hz	FREQUENCY RANGE	Below 1000MHz	
ENVIRONMENTAL CONDITIONS	21deg. C, 67%RH	DETECTOR FUNCTION	Quasi-Peak	
TESTED BY	Peter Lin	TEST MODE	В	

		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	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	160.17	20.0 QP	43.50	-23.5	1.75 H	0	5.84	14.12
2	166.00	20.4 QP	43.50	-23.1	1.50 H	19	6.59	13.77
3	175.72	21.0 QP	43.50	-22.5	1.25 H	0	7.91	13.13
4	187.39	20.3 QP	43.50	-23.2	1.25 H	0	8.27	11.99
5	259.33	17.5 QP	46.00	-28.5	1.00 H	19	4.10	13.40
6	272.94	16.9 QP	46.00	-29.1	1.00 H	19	2.95	13.91
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	31.84	12.9 QP	40.00	-27.1	1.00 V	0	0.86	12.02
2	49.34	14.0 QP	40.00	-26.0	1.00 V	0	0.03	14.01
3	70.73	12.4 QP	40.00	-27.6	1.00 V	0	0.30	12.14
4	146.56	14.7 QP	43.50	-28.8	1.00 V	0	0.73	13.96
5	175.72	13.1 QP	43.50	-30.4	1.50 V	0	0.01	13.13
6	255.44	14.0 QP	46.00	-32.0	1.75 V	20	0.75	13.25

- 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 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)				
	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 0.50 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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 19, 2011	Nov. 18, 2012
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 22, 2011	Dec. 21, 2012
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Dec. 30, 2011	Dec. 29, 2012
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jul. 07, 2011	Jul. 06, 2012
V-LISN SCHWARZBECK	NNBL 8226-2	8226-142	Jun. 30, 2011	Jun. 29, 2012
LISN ROHDE & SCHWARZ	ENV216	100072	Jun. 10, 2011	Jun. 09, 2012
Software ADT	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 HwaYa Shielded Room 2.
- 3. The VCCI Site Registration No. is C-2047.



4.2.3 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.

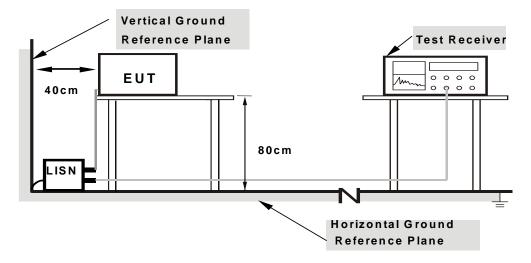
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.



4.2.5 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).

4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.



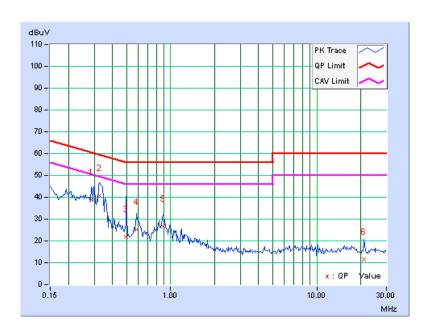
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A1		

Na	Freq.	Corr. Factor	Readin	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.28672	0.16	38.65	25.75	38.81	25.91	60.62	50.62	-21.81	-24.71
2	0.32578	0.16	40.65	30.81	40.81	30.97	59.56	49.56	-18.75	-18.59
3	0.49766	0.17	21.50	16.94	21.67	17.11	56.04	46.04	-34.37	-28.93
4	0.58750	0.18	24.91	18.86	25.09	19.04	56.00	46.00	-30.91	-26.96
5	0.88438	0.19	26.31	18.44	26.50	18.63	56.00	46.00	-29.50	-27.37
6	21.12500	0.62	10.74	3.04	11.36	3.66	60.00	50.00	-48.64	-46.34

- 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.

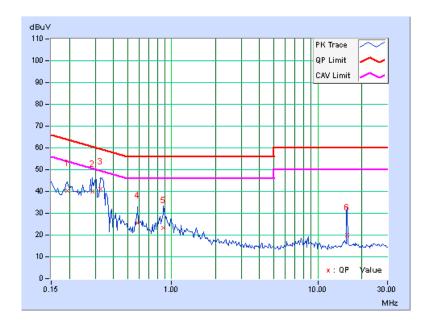




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A1		

Na	Freq.	Corr. Factor	Readin	g Value	Emis Le	ssion vel	Lir	nit	Mar	gin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19297	0.14	40.05	29.47	40.19	29.61	63.91	53.91	-23.72	-24.30
2	0.28672	0.15	39.90	25.77	40.05	25.92	60.62	50.62	-20.57	-24.70
3	0.32578	0.15	40.93	30.93	41.08	31.08	59.56	49.56	-18.48	-18.48
4	0.58750	0.17	25.30	19.19	25.47	19.36	56.00	46.00	-30.53	-26.64
5	0.87656	0.18	23.15	14.74	23.33	14.92	56.00	46.00	-32.67	-31.08
6	15.92188	0.62	19.33	7.02	19.95	7.64	60.00	50.00	-40.05	-42.36

- 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.

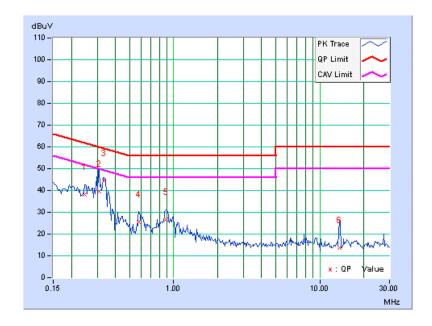




PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A2		

No	Freq.	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.24766	0.15	38.05	32.59	38.20	32.74	61.84	51.84	-23.63	-19.09	
2	0.31016	0.16	39.52	26.21	39.68	26.37	59.97	49.97	-20.29	-23.60	
3	0.33359	0.16	44.41	38.52	44.57	38.68	59.36	49.36	-14.79	-10.68	
4	0.57969	0.18	25.36	18.04	25.54	18.22	56.00	46.00	-30.46	-27.78	
5	0.88438	0.19	26.49	18.60	26.68	18.79	56.00	46.00	-29.32	-27.21	
6	13.72266	0.50	13.28	4.75	13.78	5.25	60.00	50.00	-46.22	-44.75	

- 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.

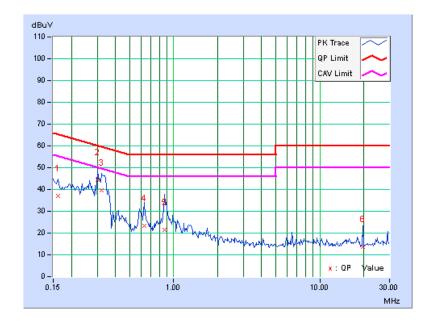




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A2		

No	Freq.	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.16172	0.13	37.02	28.84	37.15	28.97	65.38	55.38	-28.22	-26.40	
2	0.30234	0.15	44.35	30.16	44.50	30.31	60.18	50.18	-15.68	-19.87	
3	0.32316	0.15	39.32	35.11	39.47	35.26	59.63	49.63	-20.15	-14.36	
4	0.62656	0.17	23.20	12.80	23.37	12.97	56.00	46.00	-32.63	-33.03	
5	0.86484	0.18	21.35	15.85	21.53	16.03	56.00	46.00	-34.47	-29.97	
6	19.70313	0.71	12.90	5.08	13.61	5.79	60.00	50.00	-46.39	-44.21	

- 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.

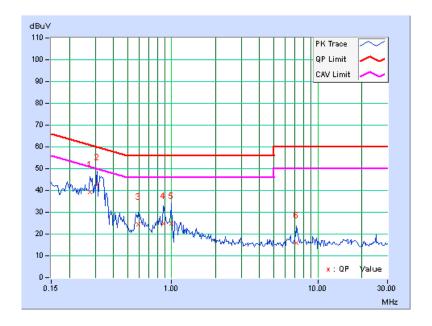




PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A3		

No	Freq. Corr. Factor		Reading Value		Emission Level		Limit		Margin	
NO	_	Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.27500	0.16	39.11	33.52	39.27	33.68	60.97	50.97	-21.70	-17.29
2	0.31016	0.16	42.39	26.06	42.55	26.22	59.97	49.97	-17.42	-23.75
3	0.59141	0.18	24.15	18.82	24.33	19.00	56.00	46.00	-31.67	-27.00
4	0.88047	0.19	24.45	16.71	24.64	16.90	56.00	46.00	-31.36	-29.10
5	0.99766	0.19	24.78	18.21	24.97	18.40	56.00	46.00	-31.03	-27.60
6	7.17578	0.39	15.55	5.50	15.94	5.89	60.00	50.00	-44.06	-44.11

- 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.

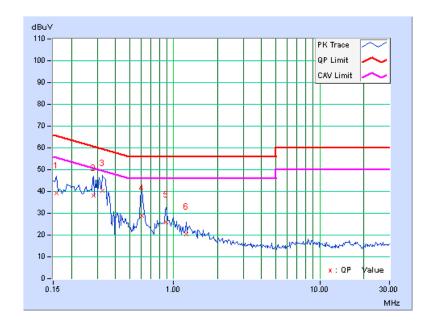




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A3		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.13	39.29	29.94	39.42	30.07	65.58	55.58	-26.16	-25.51
2	0.28281	0.15	38.00	27.91	38.15	28.06	60.73	50.73	-22.58	-22.67
3	0.32578	0.15	40.05	28.56	40.20	28.71	59.56	49.56	-19.36	-20.85
4	0.60313	0.17	28.79	16.97	28.96	17.14	56.00	46.00	-27.04	-28.86
5	0.89219	0.18	25.93	18.22	26.11	18.40	56.00	46.00	-29.89	-27.60
6	1.22266	0.21	20.08	14.53	20.29	14.74	56.00	46.00	-35.71	-31.26

- 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.

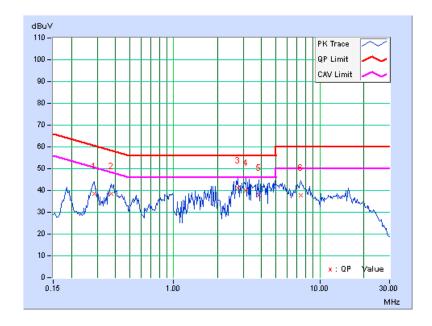




PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	В		

No	Freq.	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
NO	_	Factor	Factor		(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.28672	0.16	38.20	29.16	38.36	29.32	60.62	50.62	-22.26	-21.30	
2	0.37266	0.17	38.44	30.46	38.61	30.63	58.44	48.44	-19.83	-17.81	
3	2.75781	0.29	40.80	31.77	41.09	32.06	56.00	46.00	-14.91	-13.94	
4	3.12109	0.30	39.67	30.37	39.97	30.67	56.00	46.00	-16.03	-15.33	
5	3.83594	0.33	37.37	28.19	37.70	28.52	56.00	46.00	-18.30	-17.48	
6	7.44141	0.39	37.41	28.05	37.80	28.44	60.00	50.00	-22.20	-21.56	

- **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.

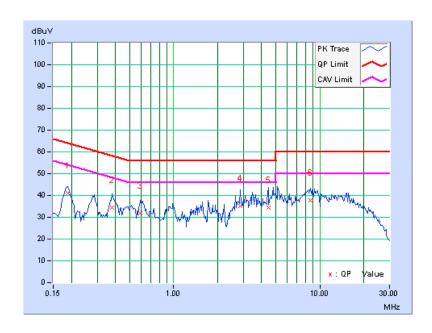




PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	В		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
No		ractor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18906	0.14	41.11	31.74	41.25	31.88	64.08	54.08	-22.83	-22.20
2	0.38047	0.16	34.14	25.01	34.30	25.17	58.27	48.27	-23.97	-23.10
3	0.59531	0.17	31.54	23.81	31.71	23.98	56.00	46.00	-24.29	-22.02
4	2.85938	0.30	34.96	27.79	35.26	28.09	56.00	46.00	-20.74	-17.91
5	4.44922	0.36	34.12	27.32	34.48	27.68	56.00	46.00	-21.52	-18.32
6	8.62500	0.45	37.16	29.37	37.61	29.82	60.00	50.00	-22.39	-20.18

- 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.





5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

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.

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