

FCC CERTIFICATION TEST REPORT

REPORT NO.: FC131114C03

MODEL NO.: C6730

FCC ID: V65C6730

RECEIVED: Nov. 14, 2013

TESTED: Dec. 03, 2013 ~ Dec. 04, 2013

ISSUED: Dec. 18, 2013

APPLICANT: Kyocera Communications, Inc. c/o Kyocera Corporation

ADDRESS: 8611 Balboa Ave. San Diego, CA 92123

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

Ltd., Taoyuan Branch

LAB ADDRESS: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FC131114C03	Original release.	Dec. 18, 2013

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CERTIFICATION 1

PRODUCT: Kyocera Phone

BRAND: Kyocera **MODEL NO.:** C6730

APPLICANT: Kyocera Communications, Inc. c/o Kyocera Corporation

TESTED: Dec. 03, 2013 ~ Dec. 04, 2013

TEST SAMPLE: Identical Prototype

STANDARD: FCC Part 15, Subpart B, Class B

ICES-003:2012 Issue 5, Class B

ANSI C63.4:2009

The above equipment 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.

Vera Huang

Vera Huang / Specialist

, DATE: Dec. 18, 2013 PREPARED BY:

APPROVED BY: , DATE : Dec. 18, 2013

Derrick Dai / Assistant Manager



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications.

	EMISSION		
Standard	Test Type	Result	Remarks
FCC Part 15, Subpart B,	Conducted emission test		Meet the requirement of limit Minimum passing margin is -3.18dB at 0.48485MHz
Class B ICES-003:2012, Class B	Radiated emission test (30MHz~40GHz)	PASS	Meet the requirement of limit Minimum passing margin is -10.51dB at 37.10MHz

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 emission	150kHz ~ 30MHz	2.44 dB
Dedicted eniceing	30MHz ~ 1GHz	4.29 dB
Radiated emission	Above 1GHz	2.26 dB

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Kyocera Phone		
MODEL NO.	C6730		
POWER SUPPLY	5Vdc (adapter or host equipment) 3.8Vdc (Li-ion battery)		
I/O PORT	Refer to users' manual		
DATA CABLE	Refer to Note as below		
ACCESSORY DEVICE	Refer to Note as below		

NOTE:

- 1. The highest operating frequency of the EUT is 2.7GHz.
- 2. The EUT has following accessories.

ITEM	BRAND	MODEL	DESCRIPTION
AC Adapter	Kyocera	SCP-42ADT	I/P: 100-240Vac, 50/60Hz, 200mA O/P: 5Vdc, 1000mA
Li-ion Battery	Kyocera	SCP-59LBPS	Rating: 3.8Vdc, 2000mAh
USB cable	Kyocera	SCP-11SDC	1.2m non-shielded cable w/o ferrite core

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



3.2 DESCRIPTION OF TEST MODES

The EUT was tested with following modes.

Test Mode	Test Condition
	Conducted and Radiated emission tests
1	CDMA BC0 Idle + BT Idle + WLAN Idle + GPS Rx + USB Cable + Adapter + Earphone + Battery
2	CDMA BC1 Idle + BT Idle + WLAN Idle + NFC On + USB Cable + Adapter + Earphone + Battery
3	CDMA BC10 Idle + BT Idle + WLAN Idle + MPEG4 + USB Cable + Adapter + Earphone + Battery
4	LTE Band 25 Idle + BT Idle + WLAN Idle + Camera + USB Cable + USB Link + Earphone + Battery
5	LTE Band 41 Idle + BT Idle + WLAN Idle + GPS Rx + USB Cable + Adapter + Earphone + Battery + Wireless Charger

NOTE:

- 1. For conducted emission test, test mode 1 was the worst case and only this mode was presented in this report.
- 2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report.



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	EARPHONE	GALIEN	HF-HB04D	N/A	N/A
2	BLUETOOTH EARPHONE	ELECOM	LBT-MPHS400	N/A	N/A
3	Universal Radio Communication Tester	R&S	CMU200	101372	N/A
4	Wireless N Dual band Router	D-LINK	DIR-815	PVK21B5000399	KA21R815A1
5	GPS Simulator	T&E	GS-50	610493	N/A
6	SIM Card	R&S	CMW-Z04	N/A	N/A
7	Micro SD Card	Transcend	N/A	N/A	N/A

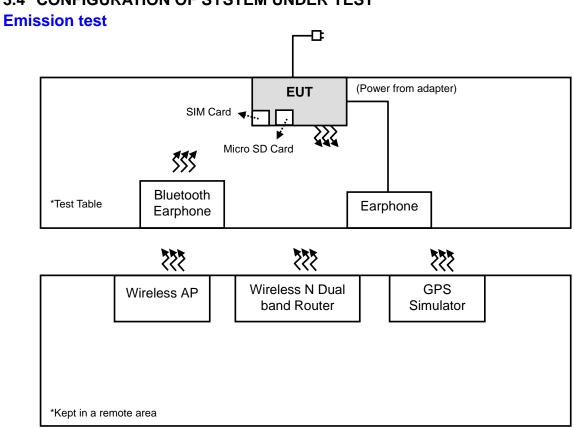
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA
3	NA
4	NA
5	NA
6	NA
7	NA

NOTE:

- 1. All power cords of the above support units are non shielded (1.8m).
- 2. Items 2-5 acted as communication partners.
- 3. Item 1 was provided by client.



3.4 CONFIGURATION OF SYSTEM UNDER TEST





4 TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD:

FCC Part 15, Subpart B (section: 15.107) ICES-003:2012 Issue 5 (section 6.1)

Fraguency (MHz)	Class A	(dBuV)	Class B (dBuV)		
Frequency (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15-0.5	79	66	66-56	56-46	
0.5-5	73	60	56	46	
5-30	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.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 17, 2013	Nov. 16, 2014
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 17, 2013	Jul. 16, 2014
Software ADT	BV ADT_Cond_ V7.3.7.3	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.



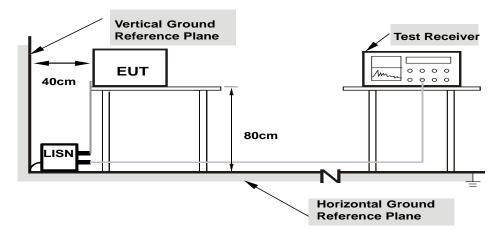
4.1.3 TEST PROCEDURES

- 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 150 kHz to 30 MHz was searched. Emission levels

under Limit - 20dB was 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

- a. Placed the EUT and Bluetooth earphone on a testing table.
- b. The EUT charged from the adapter.
- c. The EUT link with Bluetooth earphone in idle mode.
- d. The EUT communicated data with the Wireless AP, Wireless N Dual band Router, and GPS Simulator, which acted as communication partners.
- e. The necessary accessories enable the system in full functions.

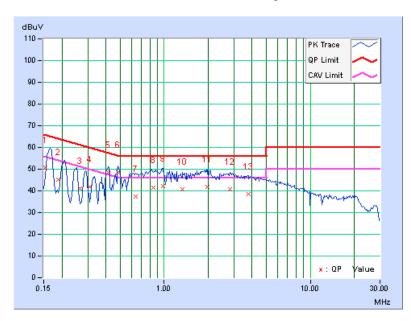


4.1.7 TEST RESULTS

INPUT POWER	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 53% RH	PHASE	Line 1
TESTED BY	Rolan Zheng		

	Freq.	Corr.	Readin	g Value	Emissio	n Level	Lir	nit	Mai	rgin
No		Factor	[dB	[dB (uV)] [dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15475	0.19	50.50	45.53	50.69	45.72	65.74	55.74	-15.05	-10.02
2	0.18934	0.20	44.92	36.95	45.12	37.15	64.07	54.07	-18.95	-16.92
3	0.26706	0.21	41.08	34.19	41.29	34.40	61.21	51.21	-19.92	-16.81
4	0.30897	0.21	41.80	34.91	42.01	35.12	60.00	50.00	-17.99	-14.88
5	0.41563	0.22	48.35	40.83	48.57	41.05	57.54	47.54	-8.96	-6.48
6	0.48585	0.23	48.21	42.12	48.44	42.35	56.24	46.24	-7.80	-3.89
7	0.64219	0.25	37.04	26.78	37.29	27.03	56.00	46.00	-18.71	-18.97
8	0.84197	0.27	41.28	34.70	41.55	34.97	56.00	46.00	-14.45	-11.03
9	0.98594	0.29	41.92	29.12	42.21	29.41	56.00	46.00	-13.79	-16.59
10	1.33594	0.30	40.57	32.99	40.87	33.29	56.00	46.00	-15.13	-12.71
11	1.98828	0.32	41.66	34.01	41.98	34.33	56.00	46.00	-14.02	-11.67
12	2.82031	0.35	40.29	32.28	40.64	32.63	56.00	46.00	-15.36	-13.37
13	3.79688	0.39	38.19	30.05	38.58	30.44	56.00	46.00	-17.42	-15.56

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value

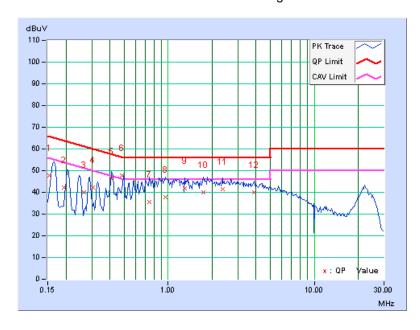




INPUT POWER	120 Vac, 60 Hz	6dB BANDWIDTH	9 kHz
ENVIRONMENTAL CONDITIONS	25 deg. C, 53% RH	PHASE	Line 2
TESTED BY	Rolan Zheng		

	Freq.	Corr.	Readin	g Value	Emissio	n Level	Lir	nit	Mai	rgin
No		Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(d	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15325	0.19	47.57	40.33	47.76	40.52	65.82	55.82	-18.06	-15.30
2	0.19294	0.19	42.20	36.28	42.39	36.47	63.91	53.91	-21.52	-17.44
3	0.26516	0.22	39.83	32.65	40.05	32.87	61.27	51.27	-21.22	-18.40
4	0.30750	0.23	42.04	36.28	42.27	36.51	60.04	50.04	-17.76	-13.52
5	0.41172	0.27	46.21	41.58	46.48	41.85	57.61	47.61	-11.13	-5.76
6	0.48485	0.27	47.34	42.81	47.61	43.08	56.26	46.26	-8.65	-3.18
7	0.74375	0.26	35.18	26.11	35.44	26.37	56.00	46.00	-20.56	-19.63
8	0.95469	0.26	37.41	27.57	37.67	27.83	56.00	46.00	-18.33	-18.17
9	1.30469	0.28	41.72	33.52	42.00	33.80	56.00	46.00	-14.00	-12.20
10	1.73438	0.30	39.88	32.28	40.18	32.58	56.00	46.00	-15.82	-13.42
11	2.35547	0.34	41.21	33.14	41.55	33.48	56.00	46.00	-14.45	-12.52
12	3.85547	0.44	39.58	29.93	40.02	30.37	56.00	46.00	-15.98	-15.63

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD:

FCC Part 15, Subpart B (section: 15.109) ICES-003:2012 Issue 5 (section: 6.2)

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

Radiated Emissions Limits at 10 meters (dBμV/m)									
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	CISPR 22, Class A	CISPR 22, Class B						
30-88	39	29.5							
88-216	43.5	33.1	40	30					
216-230	46.4	35.6							
230-960	40.4	35.6	47	27					
960-1000	49.5	43.5	47	37					
1000-3000	Avg: 49.5	Avg: 43.5	Not defined	Not defined					
3000+	Peak: 69.5	Peak: 63.5	Not defined	Not defined					

	Radiated Emissions Limits at 3 meters (dBμV/m)								
Frequencies (MHz)	FCC 15B / ICES-003, Class A	CISPR 22, Class A	CISPR 22, Class B						
30-88	49.5	40							
88-216	54	43.5	50.5	40.5					
216-230	56.9	46							
230-960	56.9	40	57.5	47.5					
960-1000	60	54	57.5	47.5					
1000-3000			Avg: 56	Avg: 50					
	Avg: 60	Avg: 54	Peak: 76	Peak: 70					
3000+	Peak: 80	Peak: 74	Avg: 60 Peak: 80	Avg: 54 Peak: 74					

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. QP detector shall be applied if not specified.



4.2.2 TEST INSTRUMENTS

Frequency range 30MHz~1GHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ (V)	ESIB7	100187	Dec. 27, 2012	Dec. 26, 2013
Test Receiver ROHDE & SCHWARZ (H)	ESIB7	100188	May 20, 2013	May 19, 2014
BILOG Antenna SCHWARZBECK (V)	VULB9168	9168-148	Mar. 19, 2013	Mar. 18, 2014
BILOG Antenna SCHWARZBECK (H)	VULB9168	9168-149	Mar. 19, 2013	Mar. 19, 2014
Preamplifier Agilent (V)	8447D	2944A10636	Oct. 18, 2013	Oct. 17, 2014
Preamplifier Agilent (H)	8447D	2944A10637	Oct. 18, 2013	Oct. 17, 2014
Preamplifier Agilent	8449B	3008A01959	Oct. 18, 2013	Oct. 17, 2014
RF signal cable Woken (V)	8D-FB	Cable-Hych1-01	Oct. 26, 2013	Oct. 25, 2014
RF signal cable Woken (H)	8D-FB	Cable-Hych1-02	Oct. 26, 2013	Oct. 25, 2014
Software ADT	BV ADT_Radiated_ V 7.7.03.8	NA	NA	NA
Antenna Tower (V)	MFA-440	9707	NA	NA
Antenna Tower (H)	MFA-440	970705	NA	NA
Turn Table	DS430	50303	NA	NA
Controller (V)	MF7802	074	NA	NA
Controller (H)	MF7802	08093	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 1.
- 3. The FCC Site Registration No. is 477732.
- 4. The IC Site Registration No. is IC 7450F-1.
- 5. The VCCI Site Registration No. is R-1893, G-113.



Frequency range above 1GHz

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	May 20, 2013	May 19, 2014
Spectrum Analyzer Agilent	E4446A	MY51100039	Jan. 31, 2013	Jan. 30, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-157	Mar. 20, 2013	Mar. 19, 2014
RF signal cable Worken	8D-FB	NA	Mar. 23, 2013	Mar. 22, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-404	Dec. 22, 2012	Dec. 21, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 25, 2012	Dec. 24, 2013
Preamplifier Agilent (Below 1GHz)	8447D	2944A10629	Oct. 18, 2013	Oct. 17, 2014
Preamplifier Agilent (Above 1GHz)	8449B	3008A01959	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MWX322+MW X2211308S029 5	Sep. 09, 2013	Sep. 08, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Controller BV ADT	SC100	SC93021702	NA	NA
RF signal cable HUBER+SUHNNER	SUCOFLEX 102	38218/2+ 37433/2	Oct. 26, 2013	Oct. 25, 2014
Fix tool for Boresight antenna tower	BAF-01	2	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 2.
- 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 686814.
- 5. The IC Site Registration No. is IC 7450F-2.
- 6. The VCCI Site Registration No. is G-18.



4.2.3 TEST PROCEDURES

Frequency range 30MHz~1GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. 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 height of antenna is varied from 1 meter to 4 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-Peak (QP) detection at frequency below 1GHz.



Frequency range above 1GHz

- 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 room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from 1 meter to 4 meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 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 and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.

NOTE:

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

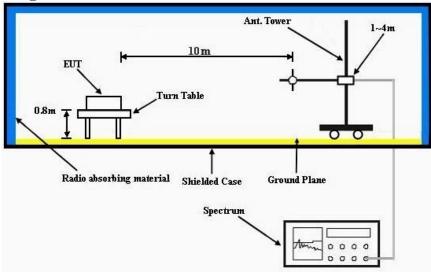
4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

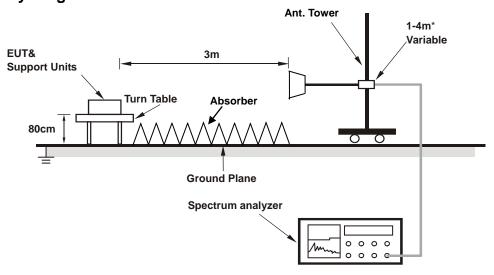


4.2.5 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



*: depends on the EUT height and the antenna 3dB beamwidth both.

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

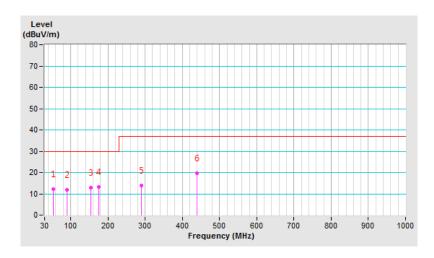


4.2.7 TEST RESULTS

INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Fox Chang		

	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	53.33	12.29 QP	30.00	-17.71	3.50 H	218	26.33	-14.04		
2	90.26	11.81 QP	30.00	-18.19	3.50 H	91	31.77	-19.96		
3	154.41	12.89 QP	30.00	-17.11	2.00 H	7	26.74	-13.85		
4	175.79	13.36 QP	30.00	-16.64	2.00 H	150	28.29	-14.93		
5	290.48	14.04 QP	37.00	-22.96	1.00 H	342	26.33	-12.29		
6	440.16	19.82 QP	37.00	-17.18	2.00 H	235	28.24	-8.42		

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

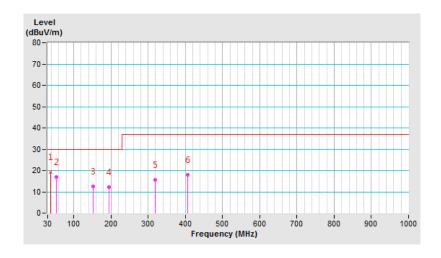




INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	19 deg. C, 66% RH	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak , 120 kHz
TESTED BY	Fox Chang		

	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	37.10	19.49 QP	30.00	-10.51	2.49 V	237	34.25	-14.76		
2	53.33	16.98 QP	30.00	-13.02	3.00 V	184	30.65	-13.67		
3	152.46	12.64 QP	30.00	-17.36	1.50 V	95	26.01	-13.37		
4	195.23	12.21 QP	30.00	-17.79	1.00 V	59	28.24	-16.03		
5	319.64	15.61 QP	37.00	-21.39	1.50 V	20	26.16	-10.55		
6	407.11	17.92 QP	37.00	-19.08	4.00 V	0	27.04	-9.12		

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

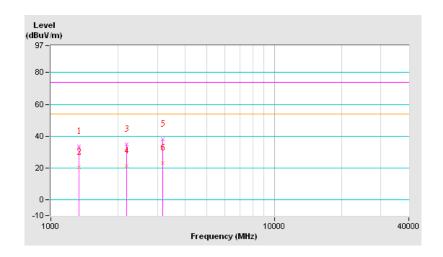




INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	1-40 GHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Ben Huang		

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1333.10	33.36 PK	74.00	-40.64	1.00 H	9	44.66	-11.30
2	1333.10	20.26 AV	54.00	-33.74	1.00 H	9	31.56	-11.30
3	2182.63	34.68 PK	74.00	-39.32	1.00 H	331	43.22	-8.54
4	2182.63	21.30 AV	54.00	-32.70	1.00 H	331	29.84	-8.54
5	3157.26	38.08 PK	74.00	-35.92	1.00 H	14	44.23	-6.15
6	3157.26	23.23 AV	54.00	-30.77	1.00 H	14	29.38	-6.15

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

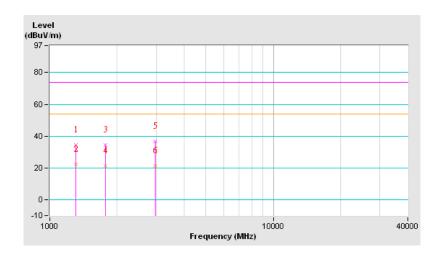




INPUT POWER	120 Vac, 60 Hz	FREQUENCY RANGE	1-40 GHz
ENVIRONMENTAL CONDITIONS		DETECTOR FUNCTION & BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Ben Huang		

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1308.57	34.62 PK	74.00	-39.38	1.00 V	301	46.03	-11.41
2	1308.57	22.32 AV	54.00	-31.68	1.00 V	301	33.73	-11.41
3	1775.50	34.34 PK	74.00	-39.66	1.00 V	248	44.13	-9.79
4	1775.50	21.24 AV	54.00	-32.76	1.00 V	248	31.03	-9.79
5	2958.26	36.85 PK	74.00	-37.15	1.00 V	192	43.23	-6.38
6	2958.26	21.26 AV	54.00	-32.74	1.00 V	192	27.64	-6.38

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





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5	PHOTOGRAPHS OF THE TEST CONFIGURATION	
	Please refer to the attached file (Test Setup Photo).	

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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.

Hsin Chu EMC/RF Lab

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

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7 APPENDIX A - MODIFICATION RECORDERS FOR **ENGINEERING CHANGES TO THE EUT BY THE LAB** No modifications were made to the EUT by the lab during the test. --- END ---