



FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

2.4G dongle

MODEL:

MCD01, MKSR-700

Test Report Number:

90710004-D

Issued for

KYE SYSTEMS CORP.

No.492, Sec.5, Chung Hsin Rd., San Chung,
Taipei Hsien, 24160, Taiwan, R.O.C.

Issued By:

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Issued Date: August 13, 2009



Testing Laboratory
1309



TESTING CERT #0824.01

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 13, 2009	Initial Issue	ALL	Jessica Ho



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1 TEST RESULT CERTIFICATION

Product:	2.4G dongle
Brand / Model:	KYE / MCD01, LG / MKSR-700
Applicant:	KYE SYSTEMS CORP. No.492, Sec.5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R.O.C.
Manufacturer:	KYE SYSTEMS CORP. No.492, Sec.5, Chung Hsin Rd., San Chung, Taipei Hsien, 24160, Taiwan, R.O.C.
Tested:	July 13 ~ August 6, 2009
Test Voltage:	120VAC/60Hz

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B (May 4, 2007), ICES-003 Issue 4 ANSI C63.4-2003	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Reviewed by:

Rex Lai

Gina Lo

Rex Lai
Section Manager

Gina Lo
Section Manager



2 EUT DESCRIPTION

Product	2.4G dongle
Brand Name / Model	KYE / MCD01, LG / MKSR-700
Applicant	KYE SYSTEMS CORP.
Housing material	Plastic
Serial Number	90710004
Received Date	July 10, 2009
EUT Power Rating	Powered by host device
Frequency Range	2400 ~ 2483.5 MHz
Operation Frequency	2402 ~ 2479 MHz
Number of Channels	78 Channels
Modulation Technique	GFSK
Antenna Gain	-3.59 dBi
Antenna Designation	PCB antenna

Remark: 1. Difference of the two model numbers (list on this report) is identical, just for marketing purpose only.
2. Client consigns only one sample to test (model number: MKSR-700). Therefore, the testing Lab. just guarantees the unit, which has been tested.

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
N/A		



3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

1. The following test mode was scanned during the preliminary test:

Pre-Test Mode
Mode 1: Operating

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	Mode 1
	Radiated Emission	Mode 1

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

3.2. EUT SYSTEM OPERATION

1	Setup the EUT and simulators as shown on 4.2.
2	Turn on the power of all equipment.
3	Communication driver was loaded and executed to communicate with remote equipment.
4	EMI test program was loaded and executed in Windows XP mode.
5	Data was sent to the Panel of EUT and monitor and filling the screens with upper case of "H" patterns.
6	Test program sequentially exercised all related I/O's of EUT and sent "H" patterns to all applicable output ports of EUT.
7	Repeat 3 to 6.

Note: Test program is self-repeating throughout the test.



4 SETUP OF EQUIPMENT UNDER TEST

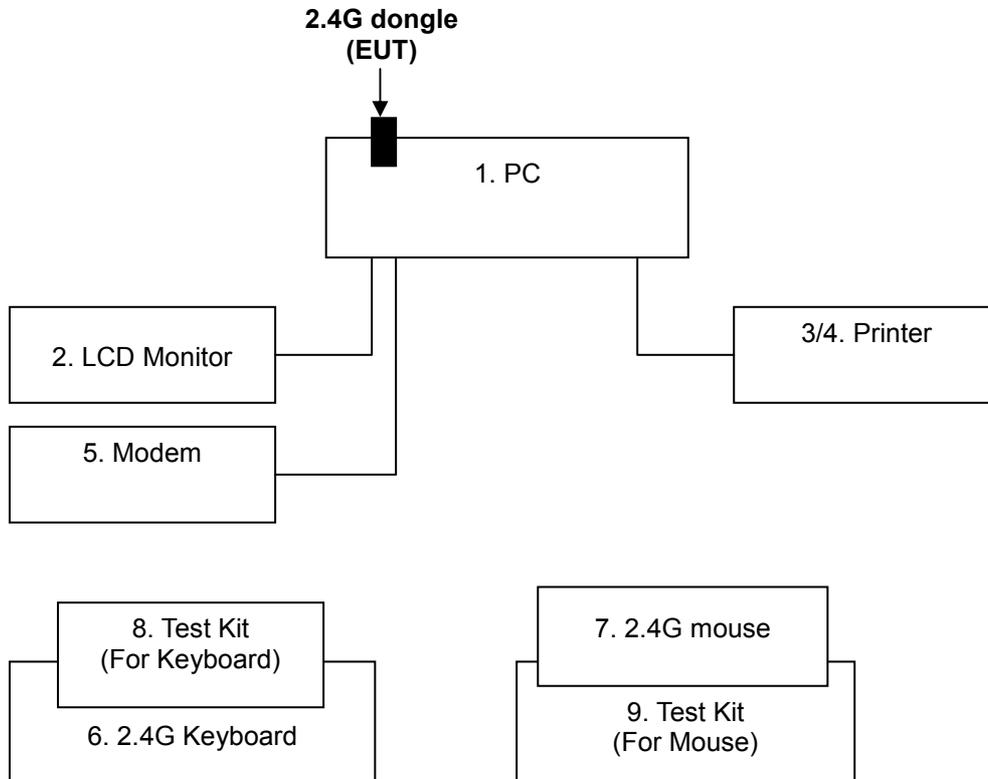
4.1. DESCRIPTION OF SUPPORT UNITS

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.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1.	PC	PL926AV	SGH528048P	FCC DoC	HP	N/A	Unshielded, 1.8m
2.	LCD Monitor	173P	DI17H4JXB04968Y	FCC DoC	Samsung	Shielded, 1.8m with 2 cores	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
3.	Printer	STYLUS C60	DR3K039633	FCC DoC	EPSON	Shielded, 1.8m	Unshielded, 1.8m
4.	Printer	B241A	FAPY150357	FCC DoC	EPSON	Shielded, 1.8m	Unshielded, 1.8m
5.	Modem	DM-1414	304012269	IFAXDM1414	ACEEX	Shielded, 1.8m	Unshielded, 1.8m
6.	2.4G Keyboard	KS2003, CK-700	N/A	FSUKK001	KYE, LG	N/A	N/A
7.	2.4G mouse	Aries, CM-700	N/A	FSUKM011	KYE, LG	N/A	N/A
8.	Test Kit (For Keyboard)	N/A	N/A	N/A	N/A	N/A	N/A
9.	Test Kit (For Mouse)	N/A	N/A	N/A	N/A	N/A	N/A

Note: Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST





5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at:

- No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, Taiwan.
Remark: The radiated emissions test items was tested at Compliance Certification Services Inc. (Linkou Lab.) The test equipments were listed in page 17 and the test data, please refer page 20-21.
- No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA	FCC
Canada	INDUSTRY CANADA
Taiwan	NCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsemc.com>



5.3. 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	+/-2.81 dB
Radiated emissions # 3	30~200MHz	+/-4.0235 dB
	200~1000MHz	+/-3.8718 dB

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

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.



6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

Frequency (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE: (1) The lower limit shall apply at the transition frequencies.
(2) The limit decreases in line with the logarithm of the frequency in the range 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.

6.2. TEST INSTRUMENTS

Powerline Conducted Emissions Test Sit				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver 9kHz-30MHz	Rohde & Schwarz	ESHS30	828144/003	11/18/2009
Two-Line V-Network 9kHz-30MHz	Schaffner	NNB41	03/10013	06/10/2010
LISN 10kHz-100MHz	EMCO	3825/2	9106-1809	04/08/2010
ISN 9kHz-30MHz	FCC	FCC-TLISN-T4	20167	09/20/2009
Test S/W	LABVIEW (V 6.1)			

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



6.3. TEST PROCEDURE (please refer to measurement standard or CCS SOP PA-031)

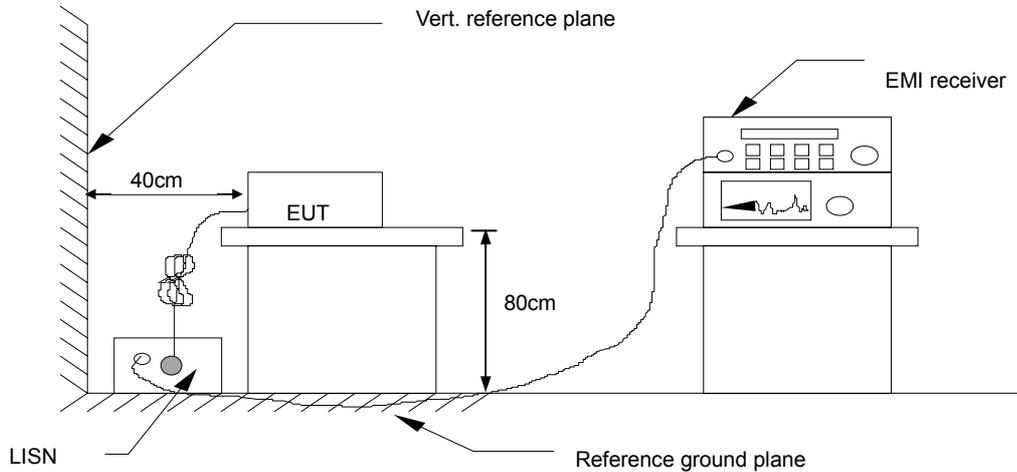
Procedure of Preliminary Test

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



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

6.5. DATA SAMPLE

Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
x.xx	43.95	33.00	10.00	53.95	43.00	56.00	46.00	-2.05	-3.00	Pass

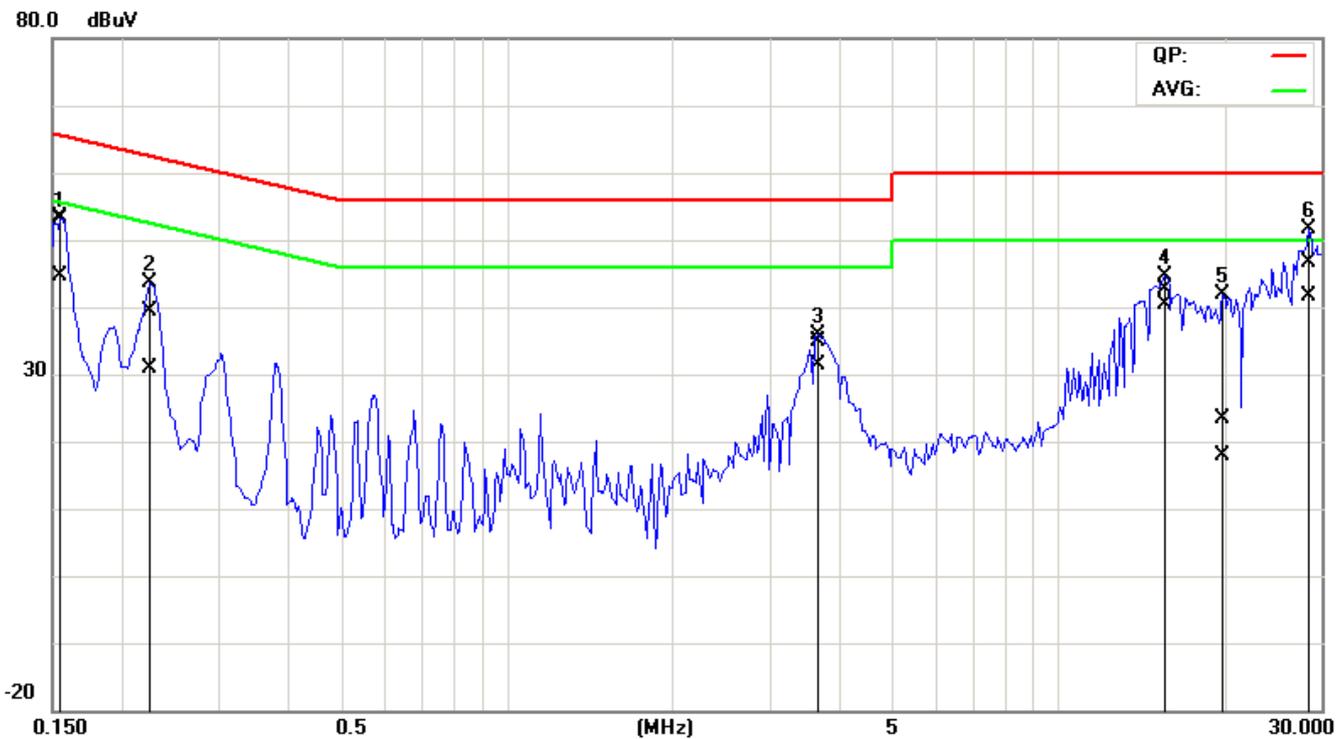
Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB
 Correction Factor (dB) = LISN Factor + Cable loss
 Result (dBuV) = Raw reading converted to dBuV and CF added
 Limit (dBuV) = Limit stated in standard
 Margin (dB) = Result (dBuV) – Limit (dBuV)



6.6. TEST RESULTS

Conduction

Job No.:	90710004	Line:	L1
Standard:	FCC Class B		
Test Item:	Conduction Emission	Date:	2009/8/6
Temp.(°C)/Hum.(%RH):	22°C/45%RH	Time:	PM 07:08:29
Company:	KYE SYSTEMS CORP.	Tested By:	Snake Shan
Model:	MKSR-700	Test Mode:	Mode 1



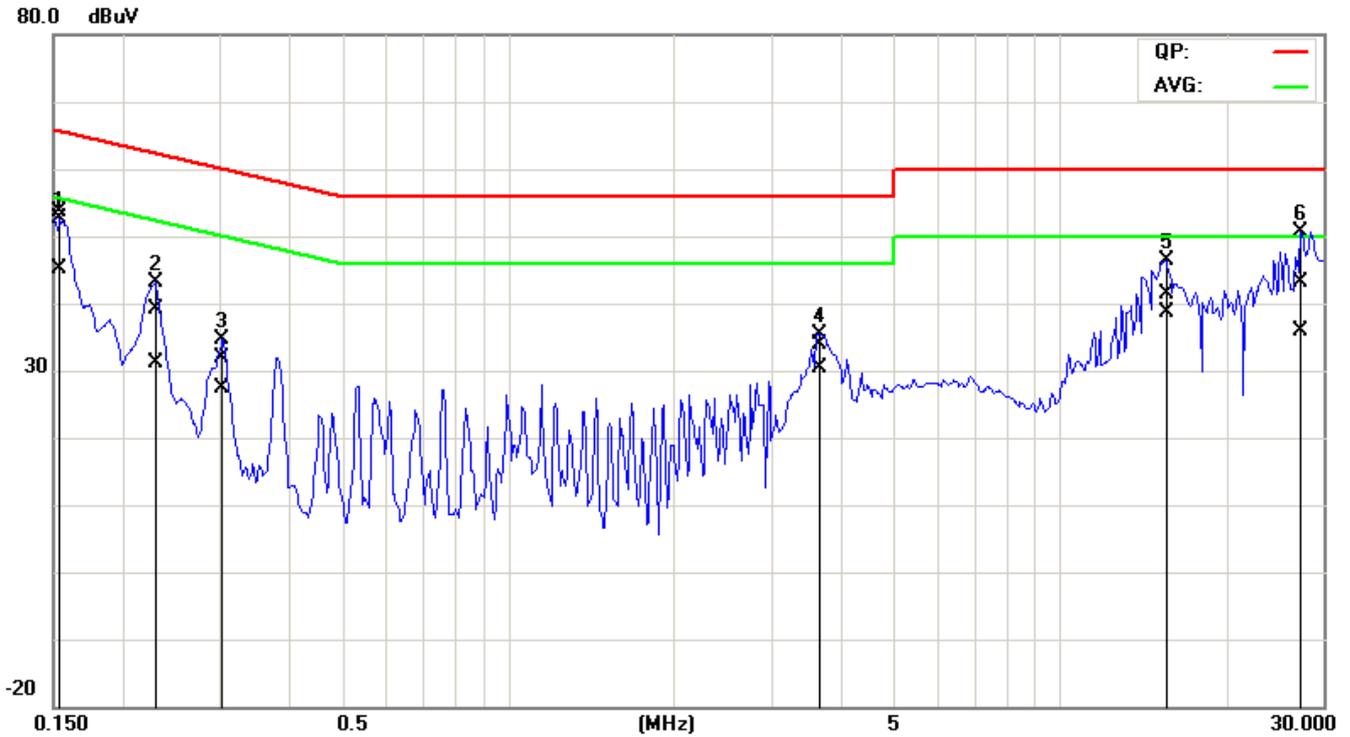
NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1557	53.28	44.58	0.12	53.40	44.70	65.69	55.69	-12.29	-10.99	Pass
2	0.2250	39.21	30.91	0.09	39.30	31.00	62.63	52.63	-23.33	-21.63	Pass
3	3.6700	34.94	31.44	0.06	35.00	31.50	56.00	46.00	-21.00	-14.50	Pass
4	15.5550	42.27	39.97	0.33	42.60	40.30	60.00	50.00	-17.40	-9.70	Pass
5	19.9000	22.88	17.58	0.42	23.30	18.00	60.00	50.00	-36.70	-32.00	Pass
6	28.5150	46.03	41.03	0.57	46.60	41.60	60.00	50.00	-13.40	-8.40	Pass

REMARKS: L1 = Line One (Live Line)



Conduction

Job No.:	90710004	Line:	L2
Standard:	FCC Class B		
Test Item:	Conduction Emission	Date:	2009/8/6
Temp.(°C)/Hum.(%RH):	22°C/45%RH	Time:	PM 07:18:41
Company:	KYE SYSTEMS CORP.	Tested By:	Snake Shan
Model:	MKSR-700	Test Mode:	Mode 1



NO.	Frequency (MHz)	Quasi Peak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	Quasi Peak result (dBuV)	Average result (dBuV)	Quasi Peak limit (dBuV)	Average limit (dBuV)	Quasi Peak margin (dB)	Average margin (dB)	Remark (Pass/Fail)
1	0.1557	53.56	44.96	0.14	53.70	45.10	65.69	55.69	-11.99	-10.59	Pass
2	0.2300	39.10	31.00	0.10	39.20	31.10	62.45	52.45	-23.25	-21.35	Pass
3	0.3050	31.91	27.41	0.09	32.00	27.50	60.11	50.11	-28.11	-22.61	Pass
4	3.6700	33.81	30.31	0.09	33.90	30.40	56.00	46.00	-22.10	-15.60	Pass
5	15.5600	41.19	38.39	0.21	41.40	38.60	60.00	50.00	-18.60	-11.40	Pass
6	27.3600	42.79	35.59	0.31	43.10	35.90	60.00	50.00	-16.90	-14.10	Pass

REMARKS: L2 = Line Two (Neutral Line)



7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

CISPR 22 Limit of Radiated Emission measured at 10 meter

Frequency (MHz)	dBuV/m (At 10m)	
	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

Frequency (MHz)	Class A (dBuV/m) (At 3m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 960	59.5	79.5	54	74

NOTE: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

Maximum permissible level of Radiated Emission measured at 3 meter

Frequency (MHz)	Field Strength (µV/m at 3-meter) Average	Field Strength (dBµV/m at 3-meter) Average
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Frequency (MHz)	Class A (dBuV/m)		Class B (dBuV/m)	
	Average	Peak	Average	Peak
Above 1000	59.3	79.3	54	74

Remark: The lower limit shall apply at the transition frequency.



7.2. TEST INSTRUMENTS

Open Area Test Site # 3				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4411B	MY41440314	N.C.R
Spectrum Analyzer	R&S	FSP30	100112	10/13/2009
EMI Test Receiver	R&S	ESVS30	828488/004	03/19/2010
Pre-Amplifier	Mini-Circuits	ZKL-2R5	83153007374	04/01/2010
Pre-Amplifier	Agilent	8449B	3008A01738	03/27/2010
Bilog Antenna	Sunol Sciences	JB1	A031605	04/02/2010
Horn Antenna	EMCO	3115	00022250	05/07/2010
Loop Antenna	EMCO	6502	2356	05/28/2010
Turn Table	Chance Most	CM-T003-1	T807-6	N.C.R
Antenna Tower	Chance Most	CM-A003-1	A807-6	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
RF Switch	ANRITSU	MP59B	M53867	N.C.R
Site NSA	CCS	N/A	N/A	05/08/2010
Test S/W	LabVIEW 6.1 (CCS OATS EMI SW V2.7)			

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. N.C.R = No Calibration Request.

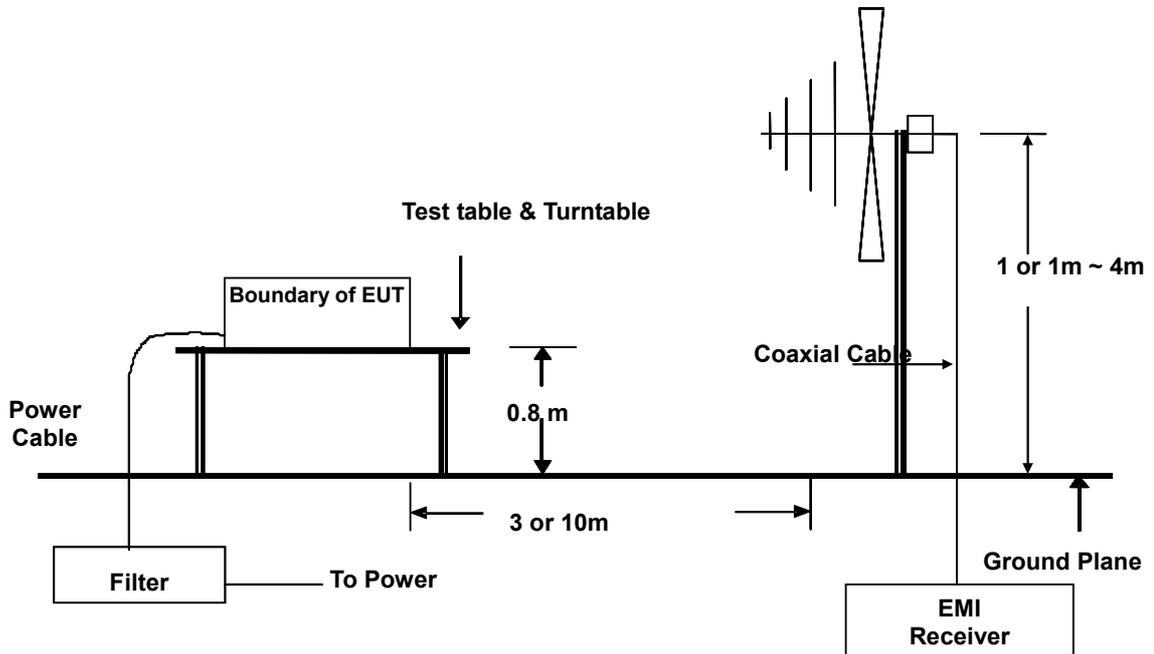
7.3. TEST PROCEDURE (please refer to measurement standard or CCS SOP PA-031)**Procedure of Preliminary Test**

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP



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

7.5. DATA SAMPLE

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
xx.xx	16.49	9.86	26.35	30.00	-3.65	116.00	101.00	QP

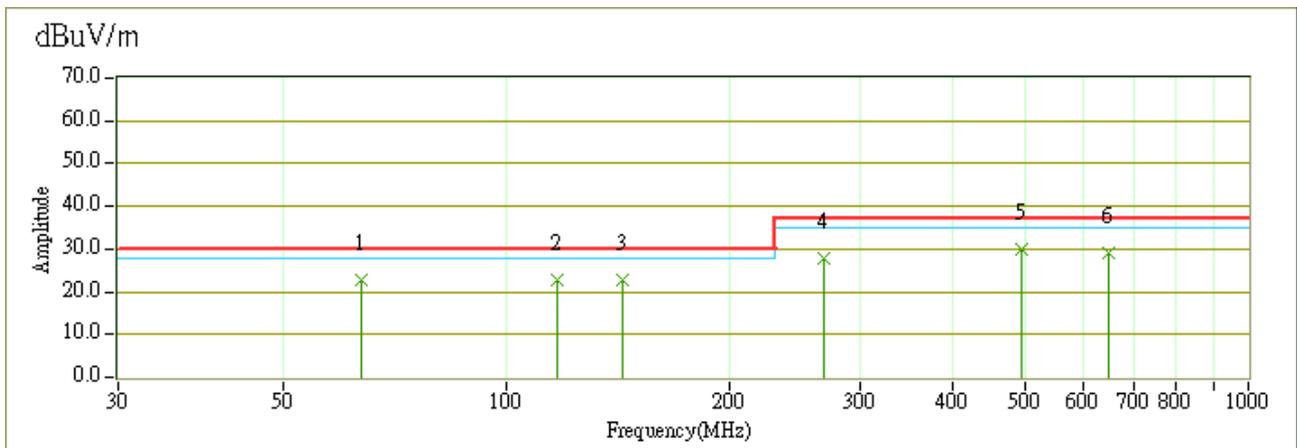
Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer / Receiver reading
 Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
 Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
 Q.P. = Quasi-Peak



7.6. TEST RESULTS

CCS Radiated Test OATS 3

Job No.:	90710004	Ant. Polar.:	Ver.
Standard:	CISPR 22 Class B	Tested Distance:	10m
Test Item:	Radiated Emission	Date:	2009/7/6
Temp.(°C)/Hum.(%RH):	28°C/55%RH	Time:	PM 05:58
Company:	KYE SYSTEMS CORP.	Tested By:	Eddy Chung
Model:	MKSR-700	Test Mode:	Mode 1



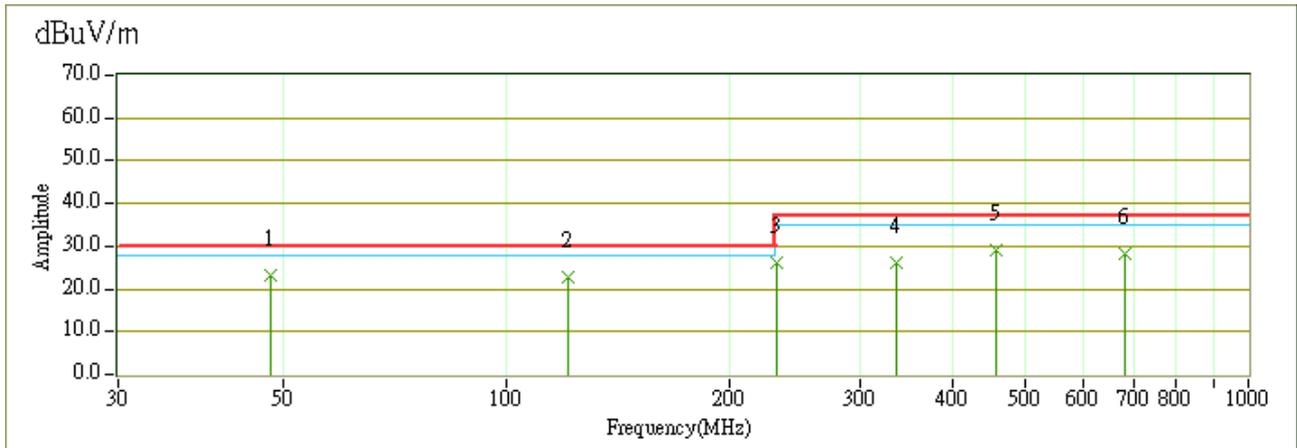
No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	63.90	44.70	-21.75	22.95	30.00	-7.05	QP
2	116.90	38.10	-15.20	22.90	30.00	-7.10	QP
3	143.20	37.60	-14.88	22.72	30.00	-7.28	QP
4	267.90	42.70	-15.00	27.70	37.00	-9.30	QP
5	493.60	37.90	-7.90	30.00	37.00	-7.00	QP
6	649.40	35.30	-6.12	29.18	37.00	-7.82	QP

REMARKS: The other emission levels were very low against the limit.



CCS Radiated Test OATS 3

Job No.:	90710004	Ant. Polar.:	Hor.
Standard:	CISPR 22 Class B	Tested Distance:	10m
Test Item:	Radiated Emission	Date:	2009/7/13
Temp.(°C)/Hum.(%RH):	28°C/55%RH	Time:	PM 02:32
Company:	KYE SYSTEMS CORP.	Tested By:	Eddy Chung
Model:	MKSR-700	Test Mode:	Mode 1



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	48.20	43.60	-20.37	23.23	30.00	-6.77	QP
2	121.30	37.50	-14.58	22.92	30.00	-7.08	QP
3	231.80	42.90	-16.87	26.03	37.00	-10.97	QP
4	336.50	38.70	-12.50	26.20	37.00	-10.80	QP
5	458.60	38.90	-9.93	28.97	37.00	-8.03	QP
6	682.10	34.20	-5.82	28.38	37.00	-8.62	QP

REMARKS: The other emission levels were very low against the limit.