



FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

Graphics Card

MODEL: eh1

Test Report Number:
T100909107-D

Issued for

VIA TECHNOLOGIES, INC.

1F., No.533, Chung-Cheng Road, Hsin-Tien, Taipei 231, Taiwan

Issued By:

Compliance Certification Services Inc.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 27, 2010	Initial Issue	ALL	Celine Chou



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1 TEST RESULT CERTIFICATION

Product:	Graphics Card
Model:	eh1
Brand:	VIA
Applicant:	VIA TECHNOLOGIES, INC. 1F., No.533, Chung-Cheng Road, Hsin-Tien, Taipei 231, Taiwan
Manufacturer:	VIA TECHNOLOGIES, INC. 1F., No.533, Chung-Cheng Road, Hsin-Tien, Taipei 231, Taiwan
Tested:	September 16 ~ 21, 2010
Test Voltage:	100VAC, 60Hz

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B (July 10, 2008),	Conducted (Main Port)	PASS	Meet Class B limit
ICES-003 Issue 4 ANSI C63.4-2003	Radiated	PASS	Meet Class B limit

- Note:
1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
 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:

Ethan Huang
Section Manager

Stan Lin
Supervisor



2 EUT DESCRIPTION

Product	Graphics Card		
Brand Name	VIA		
Model	eh1		
Applicant	VIA TECHNOLOGIES, INC.		
Serial Number	T100909107		
Received Date	September 9, 2010		
EUT Power Rating	Powered by PC		
PC Configuration			
Power Supply Manufacturer	Sea Soinc	Model	SS-500HT Active PFC F3
Power Supply Power Rating	I/P: 100-240VAC, 50/60Hz, 9A O/P: 3.3VDC, 30A; -5VDC, 30A; -12V1, 17A; +12V2, 16A; 12V, 0.8A; +5Vsb, 2A		
Memory Capacity	3GB		
CPU Manufacturer	VIA	Model	1.60GHz
HDD Manufacturer	Samsung	Model	SP1213C (111GB)
LAN Card Manufacturer	On Board		
VGA Card Manufacturer	On Board		
Sound Card Manufacturer	On Board		

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. DVI Port	1	1
2. HDMI Port	1	1



3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode	
Mode 1:	DVI 1920 x 1200 Resolution, 60Hz
Mode 2:	HDMI 1920 x 1200 Resolution, 60Hz
Mode 3:	DVI 1920 x 1200 Resolution, 60Hz + 1920 x 1200 Resolution, 60Hz
Mode 4:	DVI 1440 x 900 Resolution, 60Hz + 1920 x 1200 Resolution, 60Hz
Mode 5:	DVI 1024 x 768 Resolution, 60Hz + 1920 x 1200 Resolution, 60Hz
Mode 6:	DVI 800 x 600 Resolution, 60Hz + 1920 x 1200 Resolution, 60Hz

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

Final Test Mode		
Emission	Conducted Emission	Mode 3
	Radiated Emission	Mode 3

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	Install EUT into the Personal Computer and simulators as shown on 4.2.
2	Turn on the power of all equipment.
3	Personal Computer reads data from disk.
4	EMC Test Run test program, and run "H" pattern.
5	Personal Computer sends "H" pattern to printer, the printer will print "H" pattern on paper.
6	The H pattern will be shown on the screen of monitor through the EUT.
7	Personal Computer reads and writes data into and from modem.
8	Repeat the above procedure (4) to (7).

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



4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

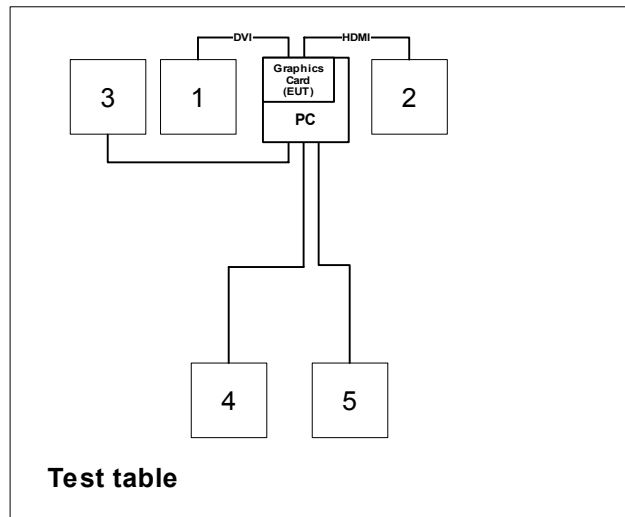
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	LCD Monitor	2408WFB	CN-0G293H-74261-87C-0LVS-A00	FCC DoC	DELL	D-SUB Cable: Shielded, 1.8m with two cores	Unshielded, 1.8m
2	LCD Monitor	2408WFB	CN-0G293H-74261-874-2CWS	FCC DoC	DELL	HDMI Cable: Shielded, 1.8m	Unshielded, 1.8m
3	Modem	DM-1414	304012264	IFAXDM1414	ACEEX	Unshielded, 1.8m	Unshielded, 1.8m
4	PS/2 Keyboard	Y-SJ17	SY528UK	FCC DoC	Logitech	Unshielded, 1.8m	N/A
5	PS/2 Mouse	M-S34	HCA25200078	DZL211029	Logitech	Unshielded, 1.8m	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

1. LCD Monitor	2. LCD Monitor	3. Modem
4. PS/2 Keyboard	5. PS/2 Mouse	---





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.

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 and CISPR 16-2-3.

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.

Canada	Industry Canada
Norway	Nemko
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.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	±2.0518
Radiated emissions	30~200MHz	±3.8856
	200~1000MHz	±3.8721

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

Conducted Emission Room # 4				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100782	06/10/2011
LISN	R&S	ENV216	100066	03/31/2011
LISN	R&S	ENV 4200	830326/016	04/27/2011
Test S/W	EZ-EMC			

- 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.



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

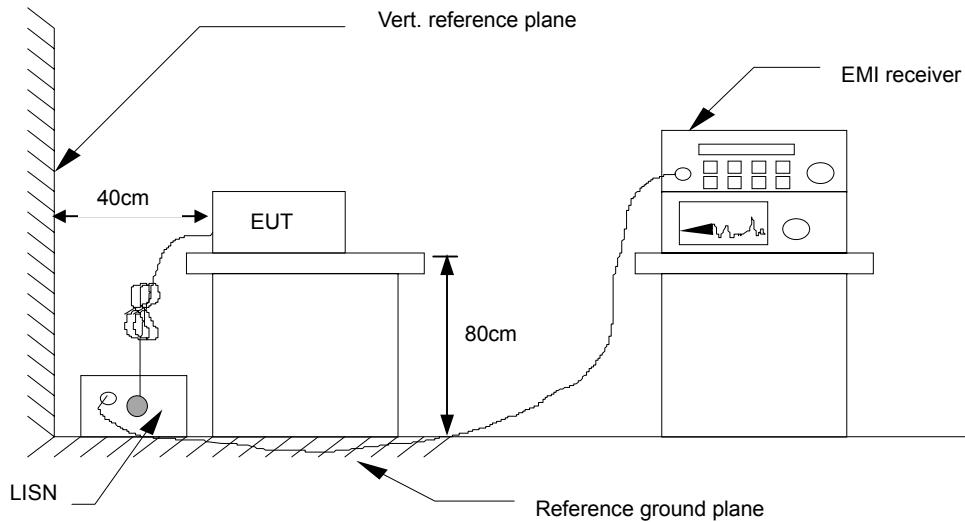
Procedure of Preliminary Test

- 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 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

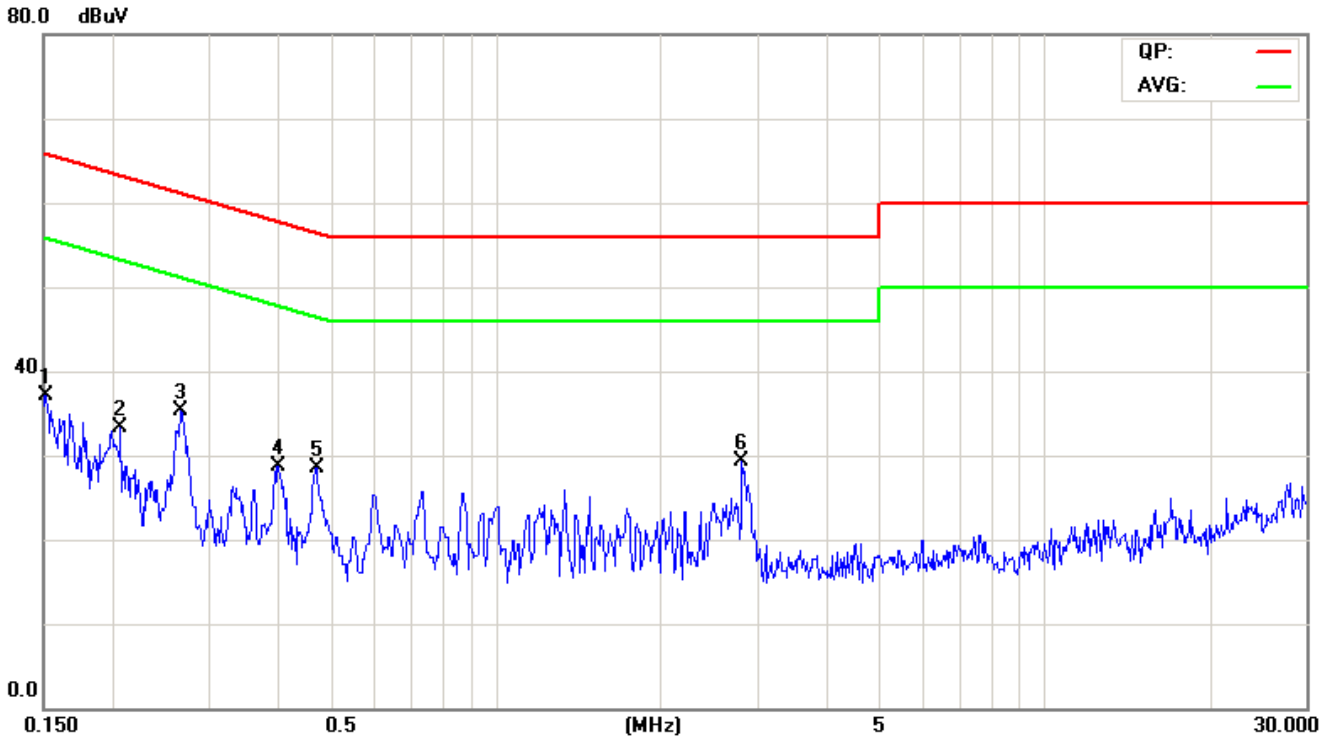
Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB
 Correction Factor (dB) = LISN Factor + Cable Loss
 Result (dBuV) = Raw reading converted to dBuV and CF added
 Limit (dBuV) = Limit stated in standard
 Margin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



6.6. TEST RESULTS

CCS Conduction Test 4

Model No.	eh1	6dB Bandwidth	9 kHz
Environmental Conditions	25°C, 57% RH	Test Mode	Mode 3
Tested By	Juicheng Su	Line	L1



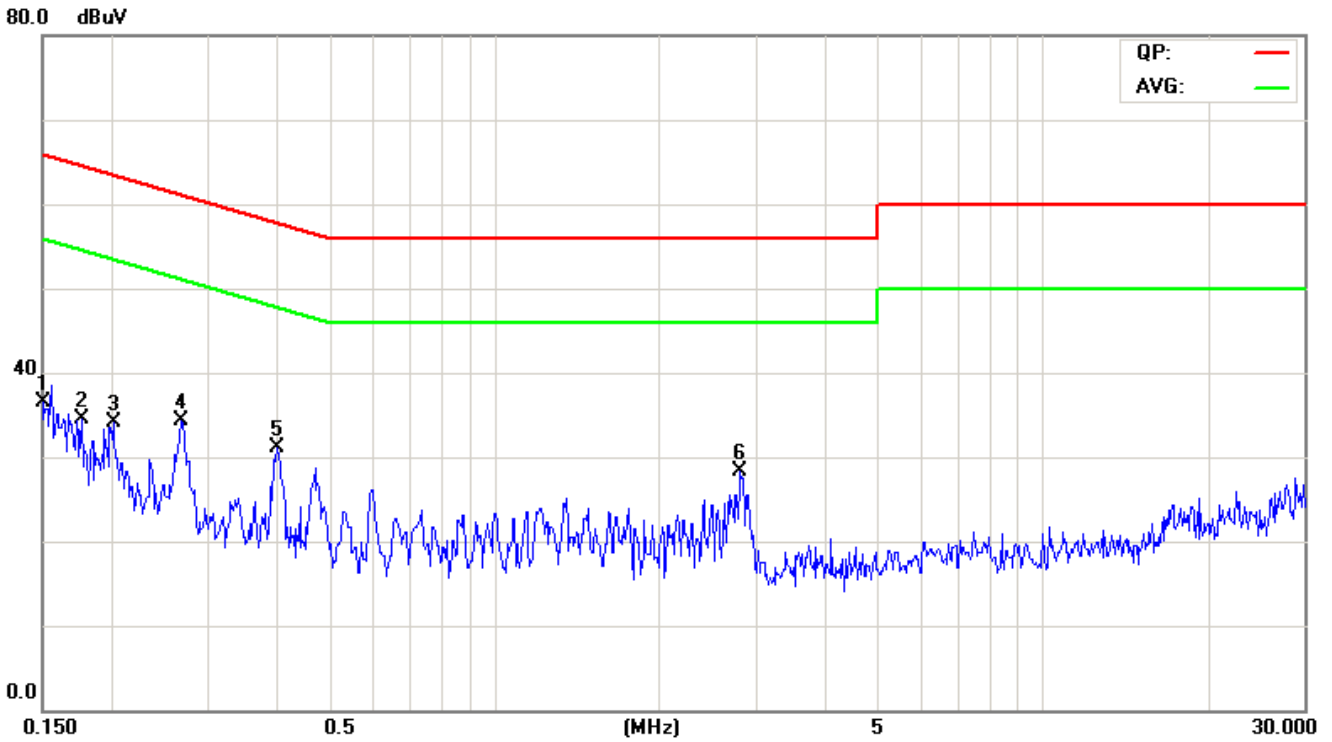
NO.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	(Pass/Fail)
1	0.1510	20.40	12.56	9.65	30.05	22.21	65.94	55.94	-35.89	-33.73	Pass
2	0.2066	15.82	11.33	9.65	25.47	20.98	63.34	53.34	-37.87	-32.36	Pass
3*	0.2668	22.89	19.38	9.65	32.54	29.03	61.21	51.22	-28.67	-22.19	Pass
4	0.4000	14.66	12.45	9.65	24.31	22.10	57.85	47.85	-33.54	-25.75	Pass
5	0.4688	14.40	12.76	9.58	23.98	22.34	56.53	46.54	-32.55	-24.20	Pass
6	2.8040	16.68	10.43	9.67	26.35	20.10	56.00	46.00	-29.65	-25.90	Pass

REMARKS: L1 = Line One (Live Line)



CCS Conduction Test 4

Model No.	eh1	6dB Bandwidth	9 kHz
Environmental Conditions	25°C, 57% RH	Test Mode	Mode 3
Tested By	Juicheng Su	Line	L2



NO.	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
1	0.1509	20.92	13.38	9.66	30.58	23.04	65.94	55.95	-35.36	-32.91	Pass
2	0.1748	15.53	10.81	9.66	25.19	20.47	64.72	54.73	-39.53	-34.26	Pass
3	0.2017	20.85	13.91	9.66	30.51	23.57	63.54	53.54	-33.03	-29.97	Pass
4	0.2686	21.06	18.67	9.66	30.72	28.33	61.16	51.16	-30.44	-22.83	Pass
5*	0.4013	18.19	16.12	9.66	27.85	25.78	57.83	47.83	-29.98	-22.05	Pass
6	2.8040	16.41	11.15	9.69	26.10	20.84	56.00	46.00	-29.90	-25.16	Pass

REMARKS: L2 = Line Two (Neutral Line)



7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

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 1000	60	80	54	74

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

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or in which the device operated or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.75	30
1.75-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower



7.2. TEST INSTRUMENTS

Open Area Test Site # 1				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	ADVANTEST	R3261C	81720301	N.C.R
EMI Test Receiver	R&S	ESVS20	838804/004	03/28/2011
Pre-Amplifier	HP	8447D	2944A09173	04/13/2011
Bilog Antenna	TESEQ	CBL 6112D	23189	06/18/2011
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
RF Switch	Anritsu	MP59B	M54367	N.C.R
Site NSA	CCS	N/A	N/A	01/16/2011
Test S/W	LabVIEW 6.1 (CCS OATS EMI SW V2.7)			

3 Meter Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY48250064	11/05/2010
Pre-Amplifier	HP	8449B	3008A00965	04/17/2011
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	05/23/2011
Horn Antenna	EMCO	3115	9602-4659	05/09/2011
Horn Antenna	EMCO	3116	00026370	10/13/2010
Low Loss Cable	Huber+Suhner	104PEA	24815/4PEA	08/13/2011
Low Loss Cable	Huber+Suhner	104PEA	30956/4PEA	04/17/2011
Site VSWR	SIDT EUROPE	9x6x6	N/A	02/26/2011
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Test S/W	EZ-EMC			

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 PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

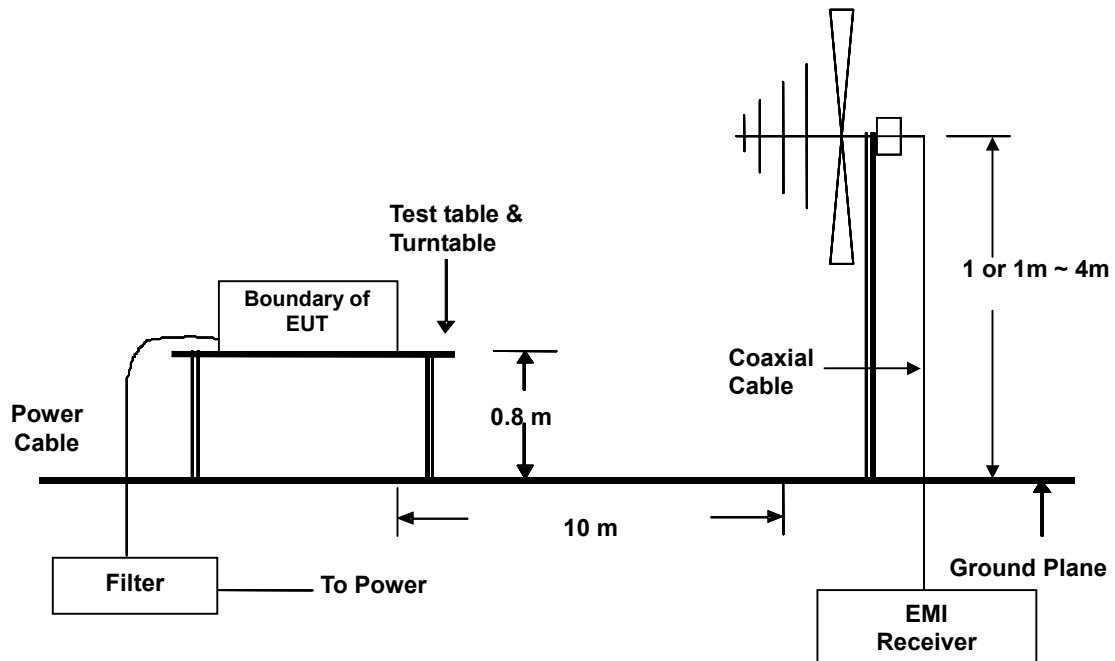
- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground 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

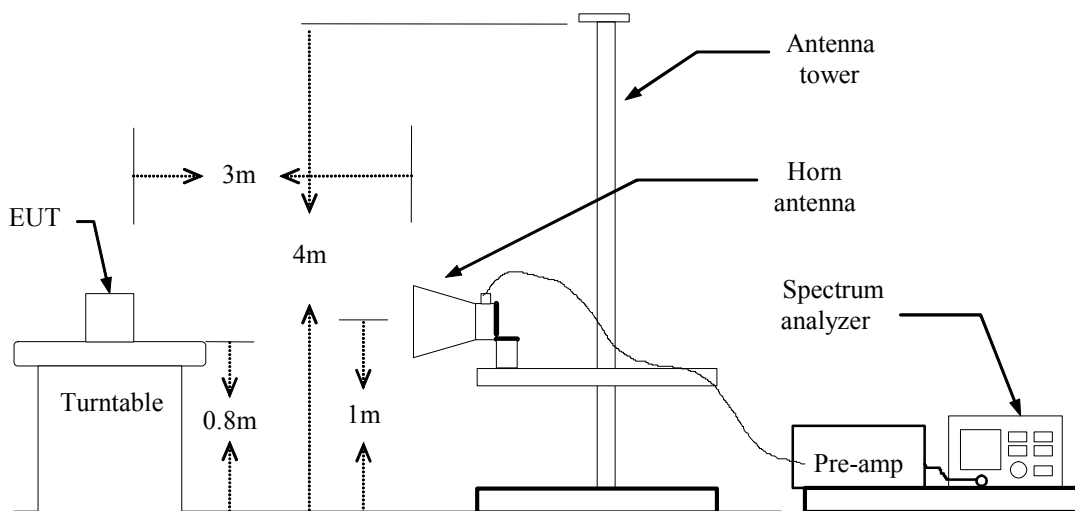
- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the 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

Below 1GHz



Above 1GHz



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



7.5. DATA SAMPLE:

Below 1GHz

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

Above 1GHz

Frequency MHz	Corr. Factor (dB/m)	Reading		Result		Limit		Margin	
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)
xxxx.xxx	-4.35	49.81	58.74	45.46	54.39	54.00	74.00	-8.54	-19.61

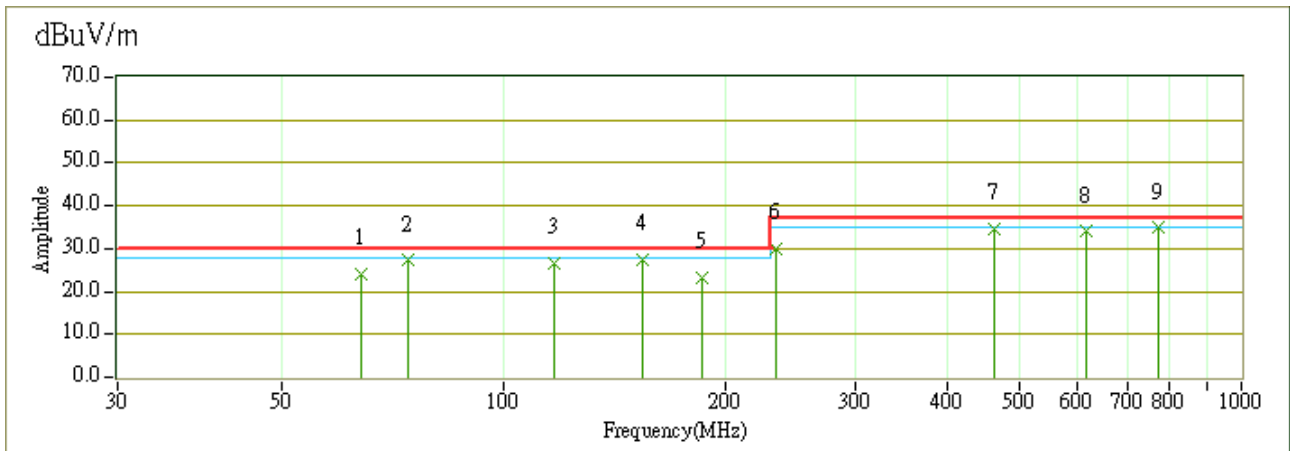
- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV) = Uncorrected Analyzer / Receiver reading
- Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
- Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Result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



7.6. TEST RESULTS

Below 1GHz

Model No.	eh1	Test Mode	Mode 3
Environmental Conditions	25°C, 56% RH	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function:	Quasi-peak.	Tested By	Ming Wu

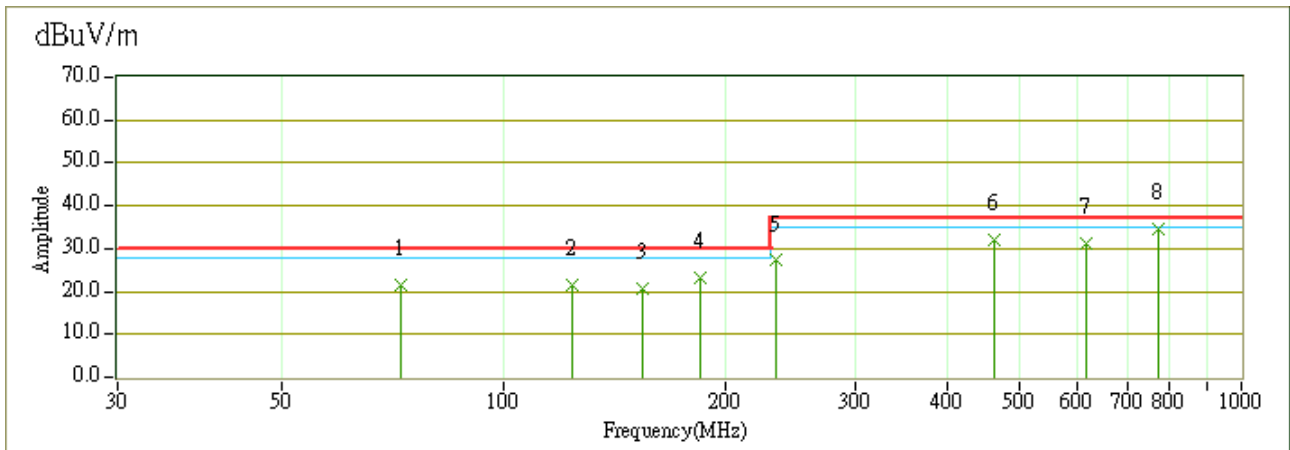


No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	64.24	42.42	-18.42	24.00	30.00	-6.00	0.00	100.00	QP
2	74.08	44.61	-17.41	27.20	30.00	-2.80	79.40	100.00	QP
3	117.28	37.69	-11.29	26.40	30.00	-3.60	66.00	100.00	QP
4	153.96	40.15	-12.90	27.25	30.00	-2.75	348.80	100.00	QP
5	185.86	36.56	-13.56	23.00	30.00	-7.00	353.50	100.00	QP
6	233.80	40.75	-10.95	29.80	37.00	-7.20	0.00	400.00	QP
7	462.20	37.34	-2.94	34.40	37.00	-2.60	312.10	166.00	QP
8	616.00	33.59	0.36	33.95	37.00	-3.05	91.30	120.10	QP
9	770.20	32.28	2.52	34.80	37.00	-2.20	232.30	100.00	QP

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



Model No.	eh1	Test Mode	Mode 3
Environmental Conditions	25°C, 56% RH	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function:	Quasi-peak.	Tested By	Ming Wu



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	72.52	39.36	-17.67	21.69	30.00	-8.31	150.10	400.00	QP
2	124.20	32.75	-11.15	21.60	30.00	-8.40	147.20	400.00	QP
3	154.07	33.53	-12.91	20.62	30.00	-9.38	128.00	400.00	QP
4	184.29	36.63	-13.63	23.00	30.00	-7.00	331.60	400.00	QP
5	233.60	38.18	-10.98	27.20	37.00	-9.80	225.60	400.00	QP
6	462.16	35.14	-2.94	32.20	37.00	-4.80	353.90	165.80	QP
7	616.90	30.84	0.36	31.20	37.00	-5.80	29.00	120.70	QP
8	770.20	32.08	2.52	34.60	37.00	-2.40	239.20	100.00	QP

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



Above 1GHz

Model No.	eh1	Test Mode	Mode 3
Environmental Conditions	18°C, 60% RH	6dB Bandwidth	1 MHz
Antenna Pole	Vertical	Antenna Distance	3m
Detector Function:	Peak/Average	Tested By	Han Chaic

Frequency MHz	Corr. Factor (dBuV/m)	Reading		Result		Limit		Margin		Degree (°)	Height (cm)
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)		
1640.000	-5.89	--	51.92	--	46.03	--	74.00	--	-27.97	244	100
2110.000	-3.27	--	49.23	--	45.96	--	74.00	--	-28.04	178	100
2240.000	-2.83	--	49.04	--	46.21	--	74.00	--	-27.79	360	100
2590.000	-1.49	--	48.93	--	47.44	--	74.00	--	-26.56	256	100
3060.000	0.64	--	47.01	--	47.65	--	74.00	--	-26.35	133	100
3530.000	2.22	--	45.49	--	47.71	--	74.00	--	-26.29	224	100

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



Model No.	eh1	Test Mode	Mode 3
Environmental Conditions	18°C, 60% RH	6dB Bandwidth	1 MHz
Antenna Pole	Horizontal	Antenna Distance	3m
Detector Function:	Peak/Average	Tested By	Han Chaic

Frequency MHz	Corr. Factor (dBuV/m)	Reading		Result		Limit		Margin		Degree (°)	Height (cm)
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)		
1360.000	-7.56	--	51.57	--	44.01	--	74.00	--	-29.99	322	100
1470.000	-6.92	--	49.75	--	42.83	--	74.00	--	-31.17	199	100
1582.001	-6.24	--	48.91	--	42.67	--	74.00	--	-31.33	178	100
1920.000	-4.15	--	49.72	--	45.57	--	74.00	--	-28.43	334	100
2150.000	-3.13	--	47.42	--	44.29	--	74.00	--	-29.71	166	100
2820.000	-0.40	--	47.04	--	46.64	--	74.00	--	-27.36	244	100

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



8 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST





RADIATED EMISSION TEST

