



FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

Motorola XOOM Family Edition

MODEL: MZ505

FCC ID: IHDP56MP1

Test Report Number:
T110801102-D-1

Issued for

Motorola Mobility, Inc.

8000 W Sunrise Blvd. Plantation Florida United States 33322

Issued By:

Compliance Certification Services Inc.

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Issued Date: August 2, 2011



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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 2, 2011	Initial Issue	All	Jill Shiau



TABLE OF CONTENTS

1 TEST RESULT CERTIFICATION 4

2 EUT DESCRIPTION 5

3 TEST METHODOLOGY 7

 3.1. DECISION OF FINAL TEST MODE 7

 3.2. EUT SYSTEM OPERATION 7

4 SETUP OF EQUIPMENT UNDER TEST 8

 4.1. DESCRIPTION OF SUPPORT UNITS 8

 4.2. CONFIGURATION OF SYSTEM UNDER TEST 8

5 FACILITIES AND ACCREDITATIONS 9

 5.1. FACILITIES 9

 5.2. ACCREDITATIONS 9

 5.3. MEASUREMENT UNCERTAINTY 10

6 CONDUCTED EMISSION MEASUREMENT 11

 6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT 11

 6.2. TEST INSTRUMENTS 11

 6.3. TEST PROCEDURES 12

 6.4. TEST SETUP 13

 6.5. DATA SAMPLE: 13

 6.6. TEST RESULTS 14

7 RADIATED EMISSION MEASUREMENT 16

 7.1. LIMITS OF RADIATED EMISSION MEASUREMENT 16

 7.2. TEST INSTRUMENTS 17

 7.3. TEST PROCEDURES 18

 7.4. TEST SETUP 19

 7.5. DATA SAMPLE: 20

 7.6. TEST RESULTS 21

8 PHOTOGRAPHS OF THE TEST CONFIGURATION 25

APPENDIX 1: PHOTOGRAPHS OF EUT 28



1 TEST RESULT CERTIFICATION

Product:	Motorola XOOM Family Edition
Model:	MZ505
Brand:	MOTOROLA
Applicant:	Motorola Mobility, Inc. 8000 W Sunrise Blvd. Plantation Florida United States 33322
Manufacturer:	Compal Information Technology (Kunshan) Co., Ltd. No. 58, First Avenue, A Zone, Kunshan Comprehensive Free Trade Zone, Kunshan, Jiangsu, China
Tested:	May 17 ~24, 2011
Test Voltage:	120VAC, 60Hz

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B (October 1, 2009), ICES-003 Issue 4 (2004) ANSI C63.4-2003	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

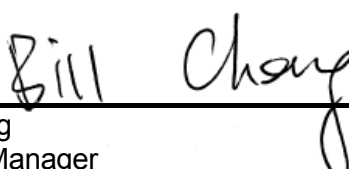
- Note:
1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
 2. The information of measurement uncertainty is available upon the customer's request.

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:



 Bill Cheng
 Section Manager



 Jill Shiao
 Section Manager



2 EUT DESCRIPTION

Product	Motorola XOOM Family Edition		
Model	MZ505		
Brand	MOTOROLA		
Applicant	Motorola Mobility, Inc.		
Serial Number	T110516109		
Received Date	May 16, 2011		
EUT Power Rating	5.35VDC, 2.0A; 5VDC, 2.0A		
Power Adapter Manufacturer	Phihong Technology	Model	PSAI10R-050Q
	Tamura Power Technology	Model	MII050yyyz (yyy= 110 to 220, z=B or blank)
			MII050yyyab (yyy= 110 to 220, a=B or hyphen; b= A -Z)
			MII050yyy-K (yyy= 110 to 220, a=B or hyphen; K= A -Z)
Asian Power Devices	Model	WA-10L05RU	
		WA-10L05RC	
Power Adapter Power Rating	For PSAI10R-050Q I/P: 100-240VAC, 50-60Hz, 0.3A O/P: 5.35VDC, 2.0A		
	For MII050yyyz; MII050yyyab; MII050yyy-K I/P: 100-240VAC, 50-60Hz, 0.3A O/P: 5VDC, 1.1-2A		
	For WA-10L05RU; WA-10L05RC I/P: 100-240VAC, 50-60Hz, 0.5A O/P: 5VDC, 2.0A		
Memory	1GB		



CPU Manufacturer	Nvidia	Model	T20-H-A4 1GHz
Panel Manufacturer	HSD	Model	HSD101PWW1-D00
WLAN+BT Manufacturer	Azurewave	Model	AW-NH611
WWAN Manufacturer	Huawei	Model	EM770w
	Ericsson	Model	F5521gw
Battery Manufacturer	Celxpert	Model	BATBJA0L21
	LG	Model	ICP486790L1
GPS Manufacturer	Broadcom	Model	BCM 4751
CCD Manufacturer	Lite-On	Model	10P2SA512
			10P2SF138
eMMC Manufacturer	Sandisk	Model	SDIN4C2 (16GB)
			SDIN5B2 (32GB)
	Hynix	Model	H26M52002CKR (16GB)
	Kingston	Model	KE4BT4B6A (16GB)
	Toshiba	Model	THGBM2G6D2FBAI9 (8GB)
THGBM2G7D4FBAI9 (16GB)			
USB Cable Type	Unshielded, 1.8m		

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1. HDMI Port	1	1
2. Microphone Port	1	1
3. USB Port	1	1
4. Micro-SD slot	1	1
5. SIM card slot	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	CPU	eMMC	Panel	Memory	CCD	CCD	GPS	WWAN	WLAN+BT	Adopter	Battery	
1	Nvidia T20-H-A4 1GHz	Sandisk 32GB SDIN5B2	HSD HSD101PWW1-D00	1GB	Lite-On 10P2SF138	Lite-On 10P2SA512	Broadcom BCM4751	Huawei EM770w	Azurewave AW-NH611	Phihong PSAI10R-050Q	Celxpert BATBJA0L21	
2	Nvidia T20-H-A4 1GHz	Hynix 16GB H26M52002CKR	HSD HSD101PWW1-D00	1GB	Lite-On 10P2SF138	Lite-On 10P2SF512	Broadcom BCM4751	Ericsson F5521GW	Azurewave AW-NH611	Asian WA-10L05RC	LG Chemical ICP486790L1	
3	Nvidia T20-H-A4 1GHz	Kingston 16GB KE4BT4B6A	HSD HSD101PWW1-D00	1GB	Lite-On 10P2SF138	Lite-On 10P2SF512	Broadcom BCM4751	Huawei EM770w	Azurewave AW-NH611	Phihong PSAI10R-050Q	Celxpert BATBJA0L21	
4	Nvidia T20-H-A4 1GHz	Sandisk 16GB SDIN4C2	HSD HSD101PWW1-D00	1GB	Lite-On 10P2SF138	Lite-On 10P2SF512	Broadcom BCM4751	Ericsson F5521GW	Azurewave AW-NH611	Phihong PSAI10R-050Q	Celxpert BATBJA0L21	
5	Nvidia T20-H-A4 1GHz	TOSHIBA 16GB THGBM2G7D4FBAI9	HSD HSD101PWW1-D00	1GB	Lite-On 10P2SF138	Lite-On 10P2SF512	Broadcom BCM4751	Ericsson F5521GW	Azurewave AW-NH611	Asian WA-10L05RU	LG Chemical ICP486790L1	
6	Nvidia T20-H-A4 1GHz	Sandisk 32GB SDIN5B2	HSD HSD101PWW1-D00	1GB	Lite-On 10P2SF138	Lite-On 10P2SF512	Broadcom BCM4751	Ericsson F5521GW	Azurewave AW-NH611	Tamura MII050yyyyz	Celxpert BATBJA0L21	
7	Nvidia T20-H-A4 1GHz	TOSHIBA 8GB THGBM2G6D2FBAI9	HSD HSD101PWW1-D00	1GB	Lite-On 10P2SF138	Lite-On 10P2SF512	Broadcom BCM4751	Ericsson F5521GW	Azurewave AW-NH611	Asian WA-10L05R	Celxpert BATBJA0L21	

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

Final Test Mode		
Emission	Conducted Emission	Mode 4
	Radiated Emission	Mode 4

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	The module device driver was exercised to play music.
4	EUT links to the host LCD Monitor via HDMI Cable.
5	Operates the CCD, WLAN+BT, WLAN and GPS function of EUT.
6	The EMI (File name: Hmarqvee) test program was loaded from EUT and executed in "Android" mode.
7	EUT will sends "H" pattern to monitor, the monitor will show "H" pattern on the screen.
8	Repeat the above procedure (3) to (7).

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



4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

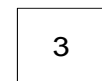
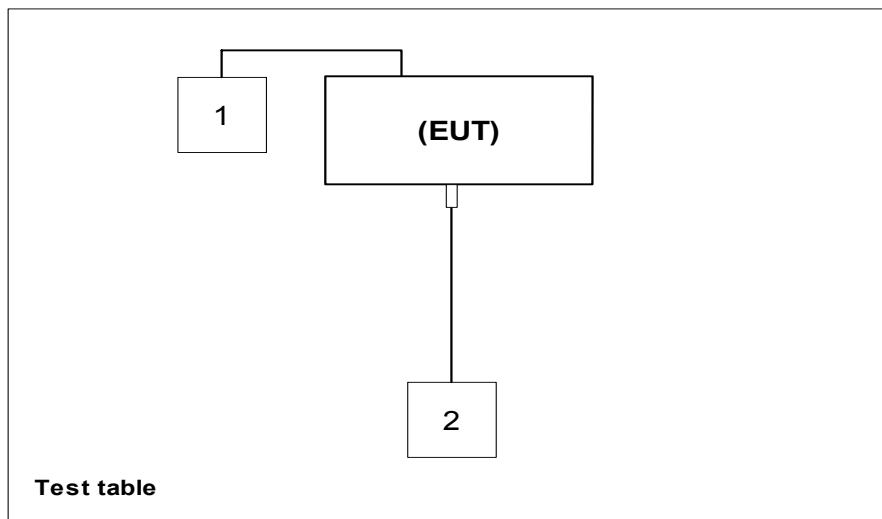
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	LCD Monitor	2408WFB	CN-0NN792-74261-8 49-15ES	FCC DoC	DELL	HDMI Cable: Shielded, 1.8m with two cores	Unshielded, 1.8m
2	Multimedia Headset	CJC-5258MV	0507106334	FCC DoC	CJC	Unshielded, 1.8m	N/A
3	GPS (Remote)	E4438C	N/A	N/A	Agilent	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

1. LCD Monitor	2. Multimedia Headset	3. GPS
----------------	-----------------------	--------



(Remote)



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, Taiwan, R.O.C.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 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	± 2.0878
Radiated emissions	30M~200MHz	± 3.8856
	200M~1000MHz	± 3.8721
	1~8GHz	± 1.7947
	8~18GHz	± 1.9019
	18~26GHz	± 2.1599
	26~40GHz	± 2.6612

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 # 3				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCS30	845552/030	05/27/2011
LISN	R&S	ENV216	100069	06/19/2011
LISN	FCC	FCC-LISN-50/250-16-2-07	06013	11/21/2011
ISN	FCC	FCC-TLISN-T2-02	20587	07/14/2011
ISN	FCC	FCC-TLISN-T8-02	20148	05/12/2012
Current Probe	FCC	F-35	506	06/18/2011
ISN	FCC	FCC-TLISN-T4-02	20396	06/24/2011
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

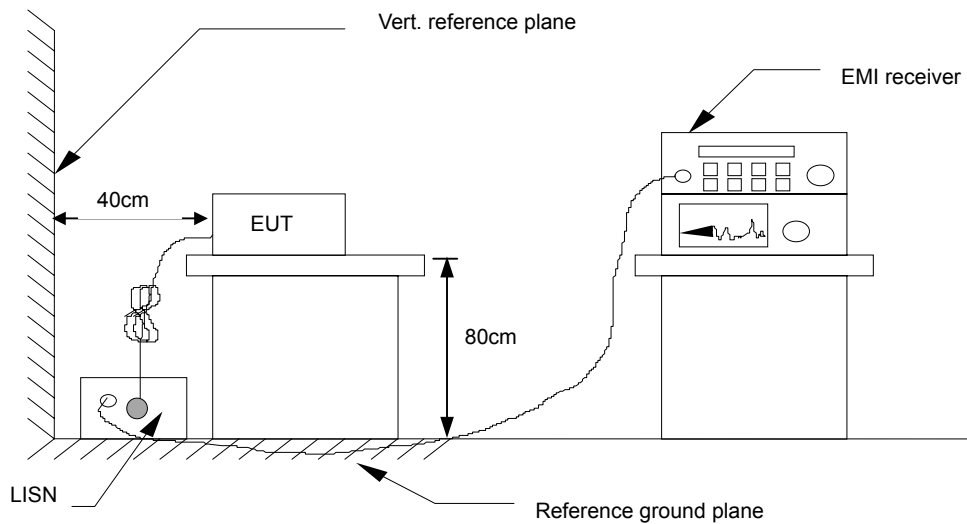
- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions 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 7 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:

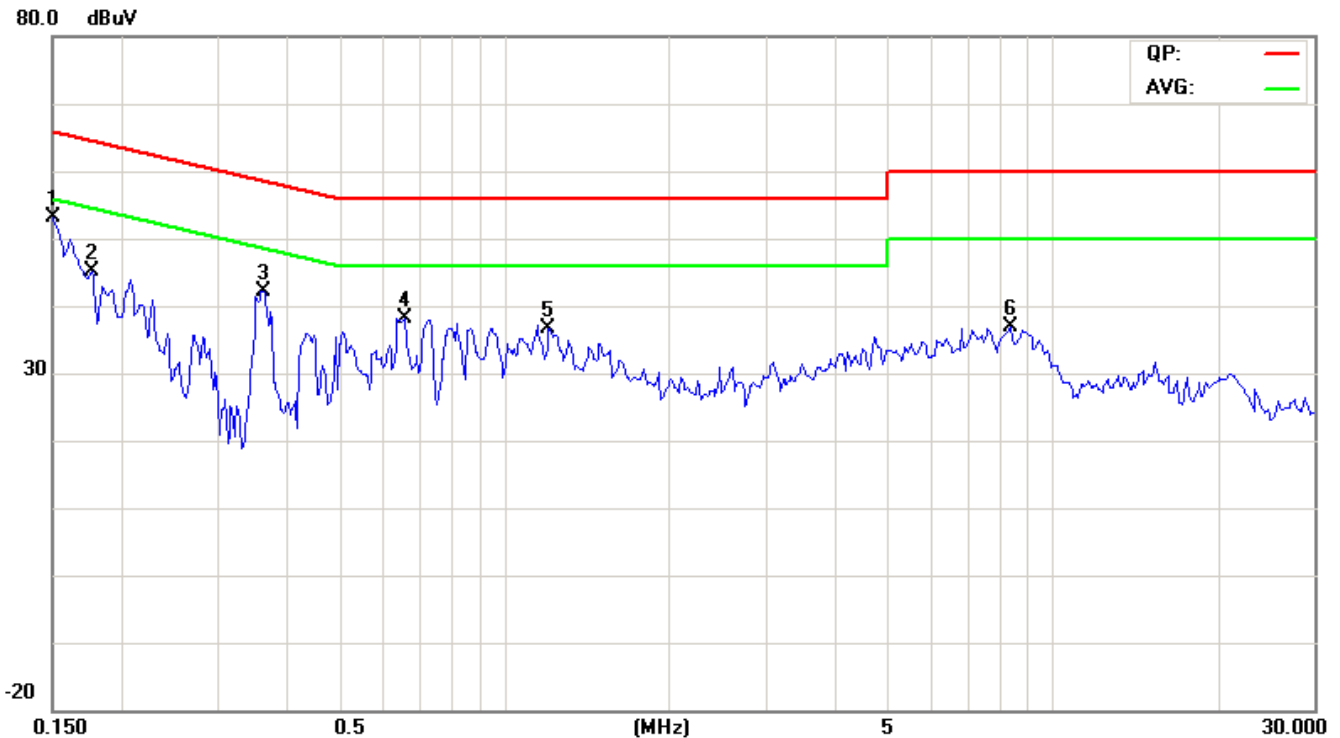
Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
x.xx	43.95	33.00	10.00	53.95	43.00	56.00	46.00	-2.05	-3.00	Pass

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

Model No.	MZ505	6dB Bandwidth	9 kHz
Environmental Conditions	25°C, 57% RH	Test Mode	Mode 4
Tested By	Rick Lu	Line	L1

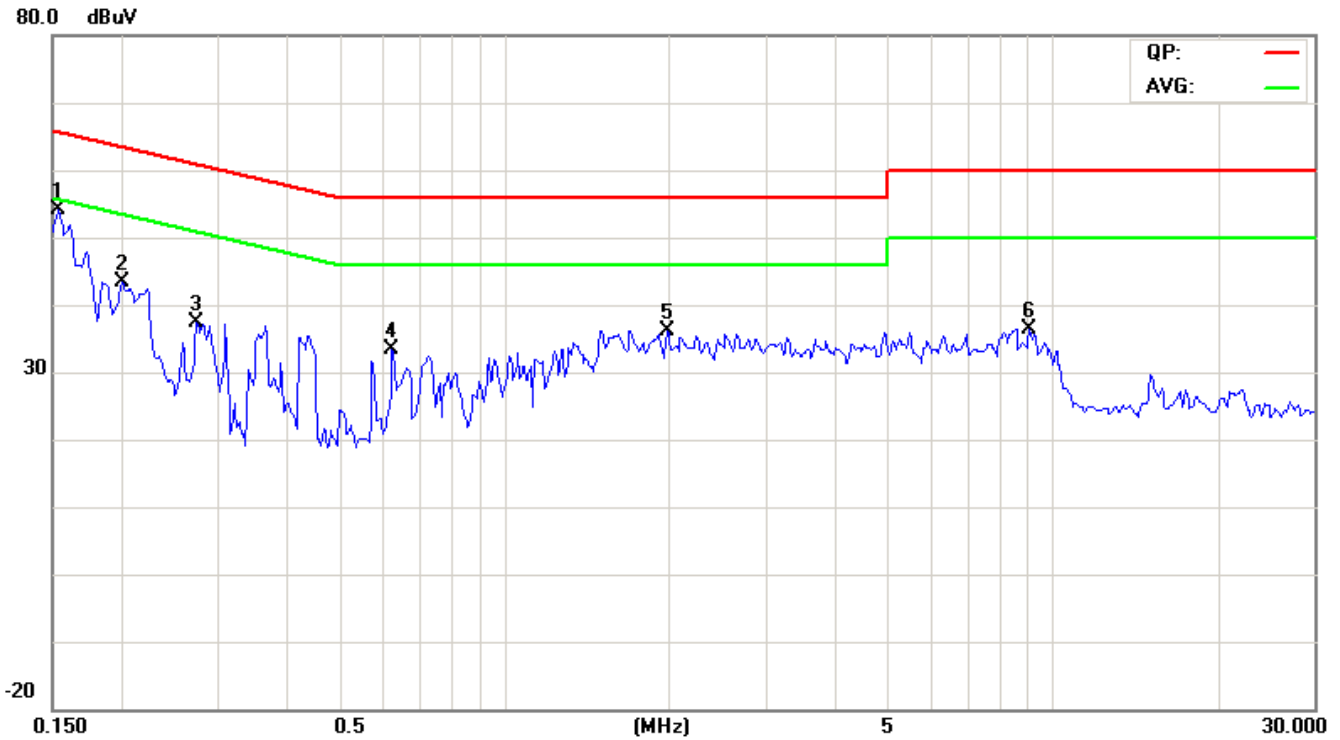


NO.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	41.39	30.29	9.71	51.10	40.00	65.99	56.00	-14.89	-16.00	Pass
2	0.1773	33.90	23.50	9.70	43.60	33.20	64.61	54.61	-21.01	-21.41	Pass
3*	0.3648	31.50	26.00	9.70	41.20	35.70	58.62	48.62	-17.42	-12.92	Pass
4	0.6578	25.51	19.71	9.39	34.90	29.10	56.00	46.00	-21.10	-16.90	Pass
5	1.2086	24.28	15.78	9.12	33.40	24.90	56.00	46.00	-22.60	-21.10	Pass
6	8.4000	21.56	15.56	9.94	31.50	25.50	60.00	50.00	-28.50	-24.50	Pass

REMARKS: L1 = Line One (Live Line)



Model No.	MZ505	6dB Bandwidth	9 kHz
Environmental Conditions	25°C, 57% RH	Test Mode	Mode 4
Tested By	Rick Lu	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 (Pass/Fail)
1*	0.1540	39.60	29.20	9.70	49.30	38.90	65.78	55.78	-16.48	-16.88	Pass
2	0.2008	30.69	23.99	9.71	40.40	33.70	63.57	53.58	-23.17	-19.88	Pass
3	0.2750	23.59	16.09	9.71	33.30	25.80	60.96	50.97	-27.66	-25.17	Pass
4	0.6266	24.39	18.59	9.61	34.00	28.20	56.00	46.00	-22.00	-17.80	Pass
5	1.9858	14.97	8.97	9.73	24.70	18.70	56.00	46.00	-31.30	-27.30	Pass
6	9.0718	21.01	15.31	10.09	31.10	25.40	60.00	50.00	-28.90	-24.60	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	03/28/2012
Pre-Amplifier	HP	8447D	2944A09173	04/13/2012
Bilog Antenna	SCHAFFNER	CBL 6112D	23189	10/06/2011
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
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	12/29/2011
Pre-Amplifier	HP	8449B	3008A00965	04/17/2012
Pre-Amplifier	MITEQ	AMF-6F-260400-4 0-8P	985646	05/23/2012
Horn Antenna	EMCO	3115	9602-4659	05/09/2012
Horn Antenna	EMCO	3116	00026370	10/12/2011
Low Loss Cable	Huber+Suhner	104PEA	24815/4PEA	08/13/2011
Low Loss Cable	Huber+Suhner	104PEA	30956/4PEA	04/17/2012
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
Bore-Sight Antenna Tower	CCS	CCS-BORESIGH T	001	N.C.R
Test S/W	CCS-3A1RE			

- 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 (For Below 1GHz) or 1 meter (For Above 1GHz) 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.

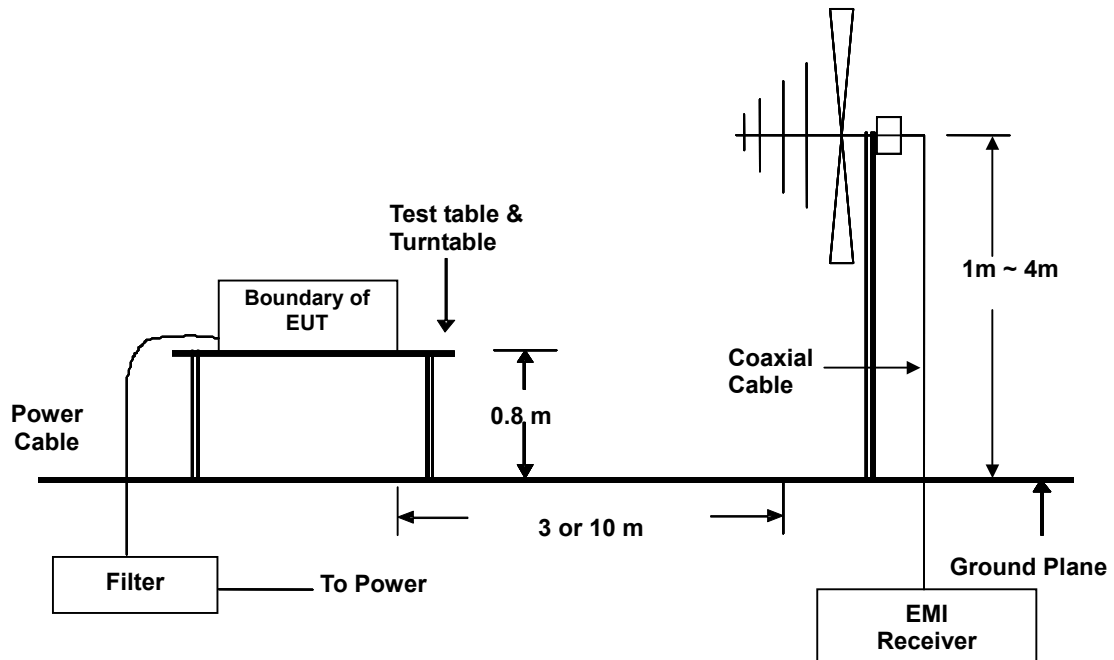
Procedure of Final Test

- 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 Q.P. (For Below 1GHz) or Peak/Average (For Above 1GHz) reading is presented.
- The test data of the worst-case condition(s) was recorded.

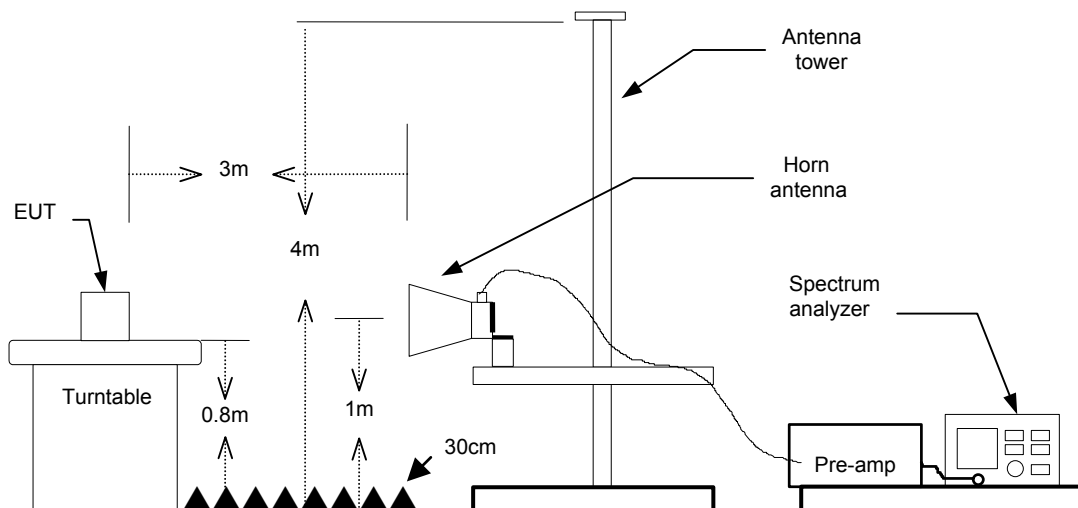


7.4. TEST SETUP

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)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
XX	54.08	-11.80	42.28	74.00	-27.72	100	185	peak
XX	34.80	-11.80	23.00	54.00	-27.00	100	185	AVG

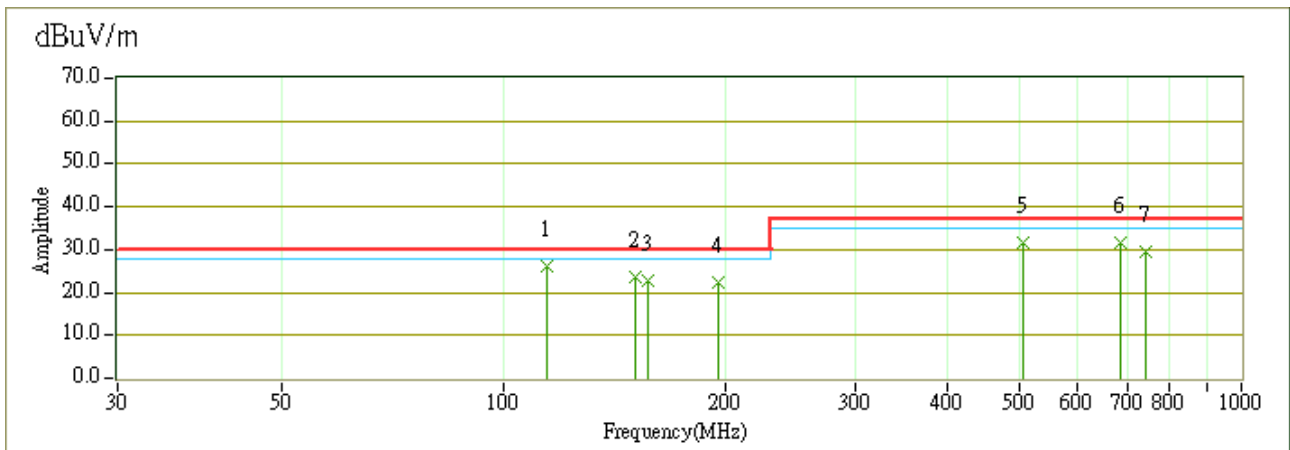
- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV) = Uncorrected Analyzer / Receiver reading
- Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
- Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Result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



7.6. TEST RESULTS

Below 1GHz

Model No.	MZ505	Test Mode	Mode 4
Environmental Conditions	25°C, 56% RH	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function:	Quasi-peak.	Tested By	Gordon Lai

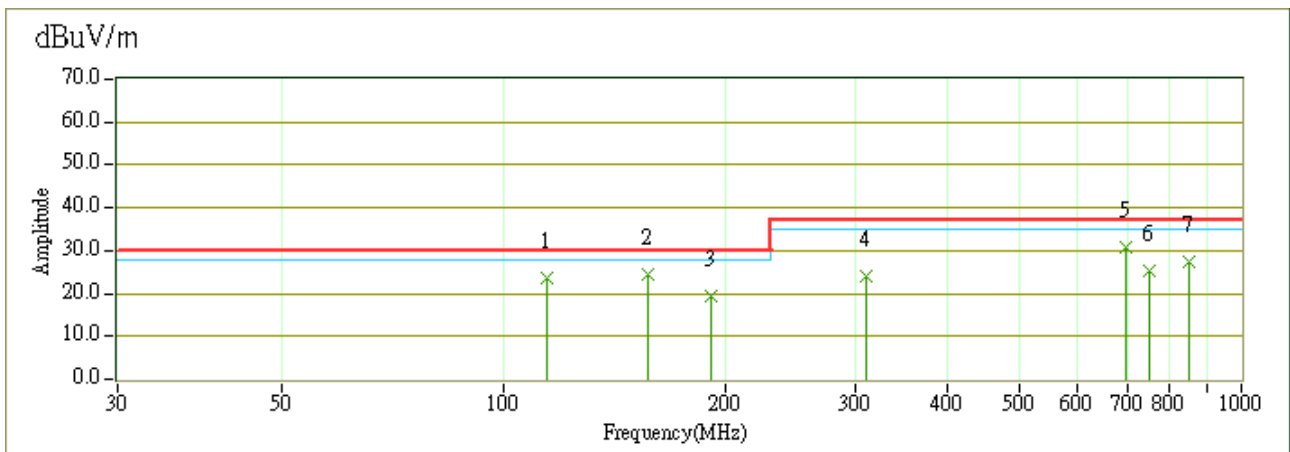


No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	114.54	37.79	-11.57	26.22	30.00	-3.78	318.50	100.00	QP
2	151.18	35.80	-12.23	23.57	30.00	-6.43	353.90	100.00	QP
3	156.61	35.22	-12.52	22.70	30.00	-7.30	25.60	100.00	QP
4	195.77	35.63	-13.23	22.40	30.00	-7.60	2.80	100.00	QP
5	506.90	34.72	-3.02	31.70	37.00	-5.30	0.00	130.00	QP
6	687.26	31.69	0.01	31.70	37.00	-5.30	30.70	130.00	QP
7	742.90	28.39	1.18	29.57	37.00	-7.43	332.00	100.00	QP

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



Model No.	MZ505	Test Mode	Mode 4
Environmental Conditions	25°C, 56% RH	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function:	Quasi-peak.	Tested By	Gordon Lai



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	114.43	35.37	-11.57	23.80	30.00	-6.20	74.10	400.00	QP
2	156.67	37.07	-12.52	24.55	30.00	-5.45	299.10	400.00	QP
3	190.79	32.88	-13.33	19.55	30.00	-10.45	124.30	400.00	QP
4	310.00	32.03	-7.83	24.20	37.00	-12.80	126.50	299.80	QP
5	699.17	30.75	-0.03	30.72	37.00	-6.28	9.20	119.80	QP
6	750.40	24.11	1.39	25.50	37.00	-11.50	319.10	119.80	QP
7	850.40	24.54	2.73	27.27	37.00	-9.73	152.10	100.00	QP

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



Above 1GHz

Model No.	MZ505	Test Mode	Mode 4
Environmental Conditions	18°C, 60% RH	Upper frequency	5000MHz
Antenna Pole	Vertical	Antenna Distance	3m
Highest frequency generated or used	1GHz	6dB Bandwidth	1 MHz
Detector Function:	Peak/Average	Tested By	Frarcis Lee

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1300.000	50.62	-9.87	40.75	74.00	-33.25	154	350	peak
2	1400.000	50.92	-9.35	41.57	74.00	-32.43	201	158	peak
3	1500.000	52.30	-8.85	43.45	74.00	-30.55	112	170	peak
4	2038.521	49.35	-6.03	43.32	74.00	-30.68	120	183	peak
5	2187.500	50.76	-5.63	45.13	74.00	-28.87	130	130	peak
6	2437.500	49.19	-4.96	44.23	74.00	-29.77	140	224	peak

- 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.

Frarcis Lee



Model No.	MZ505	Test Mode	Mode 4
Environmental Conditions	18°C, 60% RH	Upper frequency	5000MHz
Antenna Pole	Horizontal	Antenna Distance	3m
Highest frequency generated or used	1GHz	6dB Bandwidth	1 MHz
Detector Function:	Peak/Average	Tested By	Fraricis Lee

No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Remark
1	1700.000	50.91	-7.77	43.14	74.00	-30.86	130	323	peak
2	1837.500	49.75	-7.02	42.73	74.00	-31.27	124	180	peak
3	2012.500	50.36	-6.10	44.26	74.00	-29.74	117	137	peak
4	2250.000	49.14	-5.46	43.68	74.00	-30.32	135	142	peak
5	2337.500	48.98	-5.23	43.75	74.00	-30.25	169	130	peak
6	2462.500	51.87	-4.89	46.98	74.00	-27.02	342	242	peak

- 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.



APPENDIX 1: PHOTOGRAPHS OF EUT

Refer to T110801102 External Photographs.