

TECHNICAL REPORT



ISO/IEC17025 Accredited Lab.

Report No: FCC 1203141-02
File reference No: 2012-04-24

Applicant: SUNGALE ELECTRONICS (SHENZHEN) LTD

Product: MID

Trademark: N/A

Model No: ID702WTA, ID706WTA, ID707WTA, ID708WTA, ID720WTA, ID722WTA, ID723WTA, ID728WTA, ID760WTA, ID780WTA, ID710WTA, ID712WTA, ID713WTA, ID716WTA, ID718WTA, ID730WTA, ID750WTA, ID770WTA, ID1010WTA, ID1010WTA-V2, ID1012WTA, ID1013WTA, ID1016WTA, ID1017WTA, ID1021WTA, ID1026WTA, ID1027WTA, ID1028WTA, ID1018WTA, ID1031WTA, ID1032WTA, ID1038WTA, ID1060WTA, ID1068WTA, ID1080WTA, ID1088WTA, STB266, STB260, STB370, STB620, STB760, STB850, STB880, ID430WTA, ID433WTA, ID431WTA, ID436WTA, ID438WTA, ID500WTA, ID550WTA

Test Standards: FCC Part 15 Subpart B: 2009

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By
Jack Chung

Jack Chung
Manager

Dated: April 24, 2012

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD
Address: East 5/Block 4, Anhua Industrial Zone, No.8,Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: SUNGALE ELECTRONICS (SHENZHEN) LTD
Address: Yangyong Industriect Shapu Songgang, Baoan Shenzhen 518105, P.R China
Telephone: 0755-27428875
Fax: 0755-27428699

1.3 Description of EUT

Product: MID
Manufacturer: SUNGALE ELECTRONICS (SHENZHEN) LTD
Address: Yangyong Industriect Shapu Songgang, Baoan Shenzhen 518105, P.R China
Brand Name: N/A
Model Number: ID702WTA

Additional Model Number: ID706WTA, ID707WTA, ID708WTA, ID720WTA, ID722WTA, ID723WTA, ID728WTA, ID760WTA, ID780WTA, ID710WTA, ID712WTA, ID713WTA, ID716WTA, ID718WTA, ID730WTA, ID750WTA, ID770WTA, ID1010WTA, ID1010WTA-V2, ID1012WTA, ID1013WTA, ID1016WTA, ID1017WTA, ID1021WTA, ID1026WTA, ID1027WTA, ID1028WTA, ID1018WTA, ID1031WTA, ID1032WTA, ID1038WTA, ID1060WTA, ID1068WTA, ID1080WTA, ID1088WTA, STB266, STB260, STB370, STB620, STB760, STB850, STB880, ID430WTA, ID433WTA, ID431WTA, ID436WTA, ID438WTA, ID500WTA, ID550WTA

Power Adapter Model: JKY36-SP0502000, Input :100-240V, 50/60Hz;
Output: 5.0V, 2000mA

1.4 Submitted Sample: 2 Samples

1.5 Test Duration: 2012-03-28 to 2012-04-24

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions Uncertainty =4.7dB

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1.7 Test Engineer

Terry Tong

The sample tested by _____

Print Name: Terry Tong

2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2011.8.25	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2011.8.25	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2011.8.25	1 Year
LISN	ESH3-Z5	100294	RS	2011.8.25	1 Year
LISN	ESH3-Z5	100253	RS	2011.8.25	1 Year
LISN	LS16C	10010947251	AFJ	2011.8.25	1 Year
LISN (Three Phase)	NSLK 8126	8126453	Schwarebeck	2011.8.25	1 Year

2.2 Radiated electromagnetic disturbance test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2011.8.25	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2011.8.25	1 Year
Amplifier	8447D	2727A05017	HP	2011.8.25	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2011.8.25	1 Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2011.8.25	1 Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Cable	FCC DOC/ ID
Monitor	P2450	--	SAMSUNG	Data cable of 1.5m length	FCC DOC
U-disk	U208	--	Netac	--	FCC DOC
SD	--	--	Kingston	--	--
PC	R400	--	IBM	--	FCC ID
Mouse	M-F105	--	L.SEletron	--	FCC DOC
Keyboard	KB-0225	--	IBM	--	FCC DOC

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3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 15 Subpart B: 2009

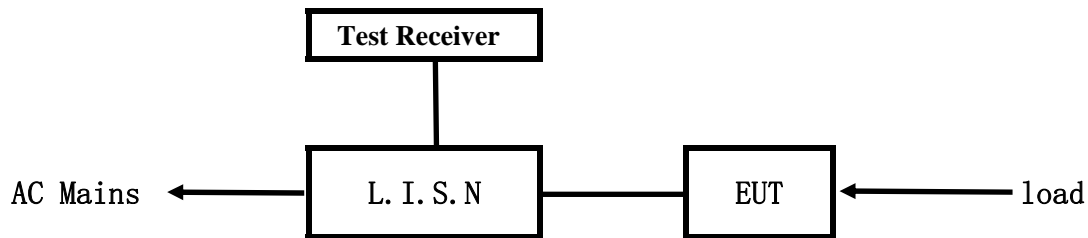
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4.0 Conducted Power line Test

4.1 Schematics of the test



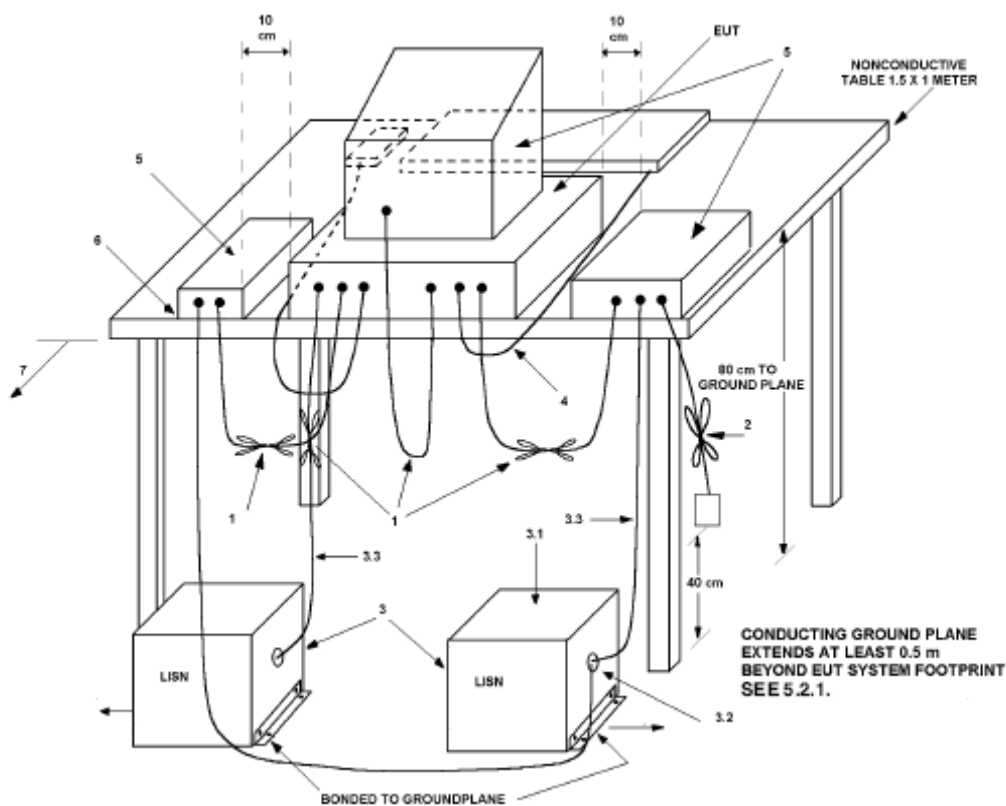
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2009. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μ V)		Class B Limits dB(μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. *decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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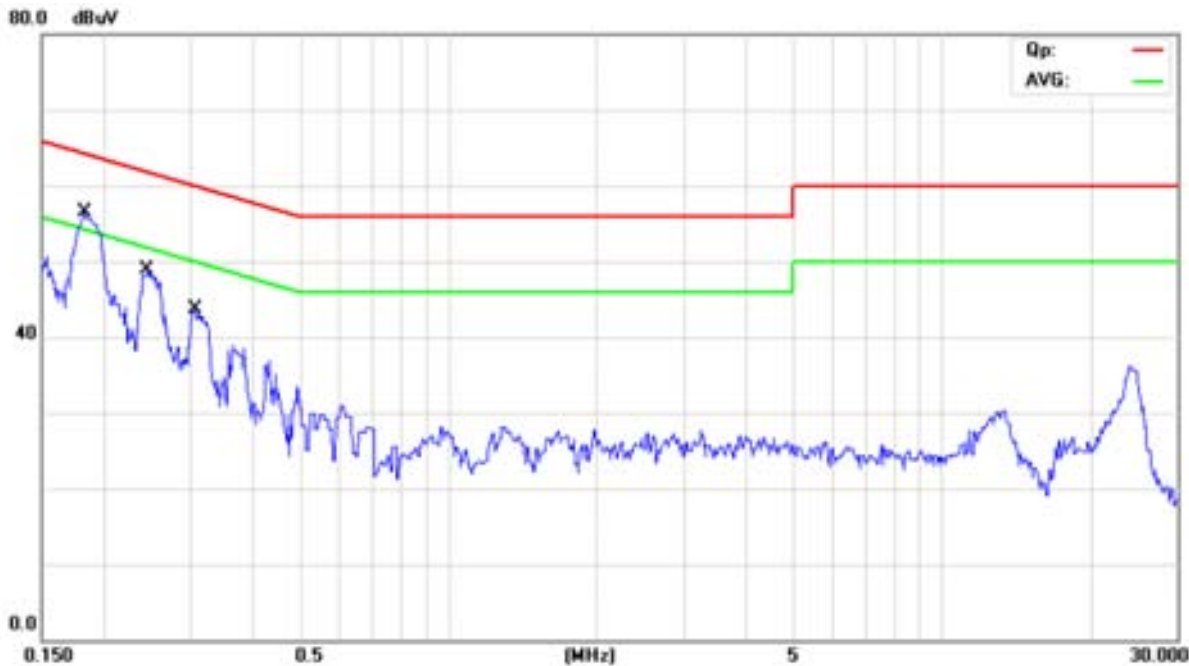


A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Charging Mode

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Line		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.183	53.23	24.63	--	--	64.35	54.35
0.245	45.90	27.90	--	--	61.92	51.92
0.306	38.87	24.37	--	--	60.08	50.08

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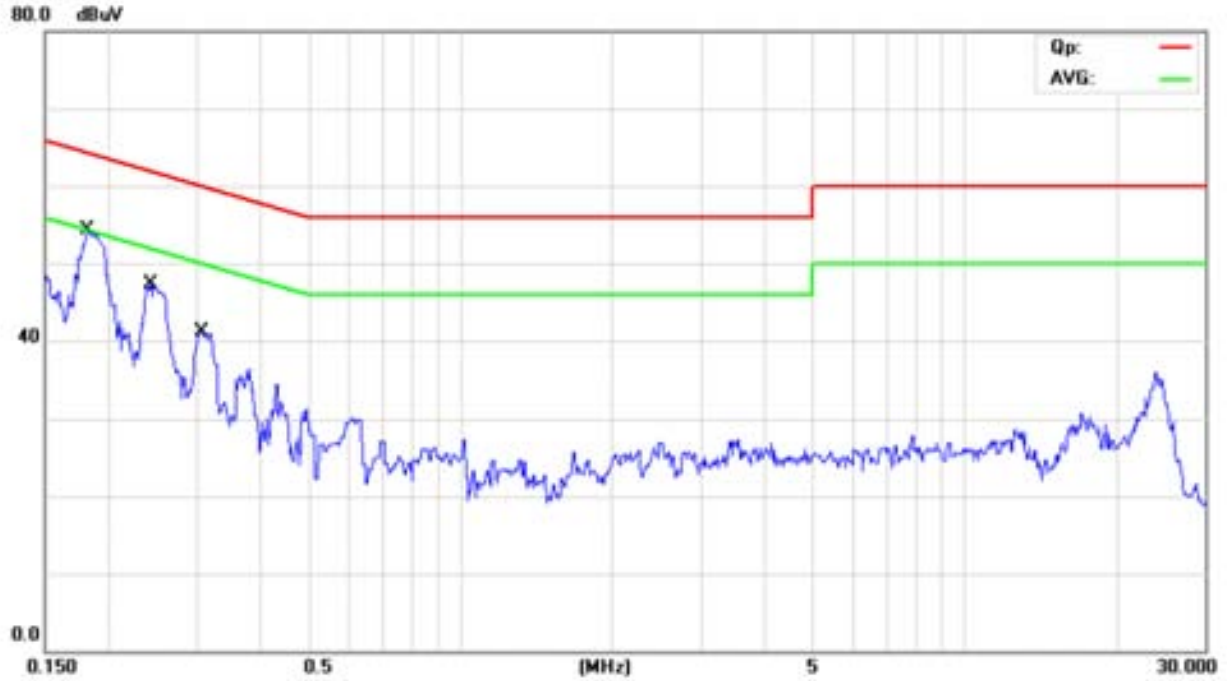


B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Charging Mode

Results: Pass

Please refer to following diagram for individual

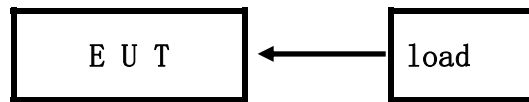


Frequency (MHz)	Reading(dB µ V)				Limit (dB µ V)	
	Live		Neutral		Quasi-peak	Average
	Quasi-peak	Average	Quasi-peak	Average		
0.182	--	--	52.53	23.93	64.39	54.39
0.243	--	--	45.00	26.30	61.99	51.99
0.305	--	--	38.46	21.16	60.10	50.10

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5.0 Radiated Disturbance Test

5.1 Schematics of the test

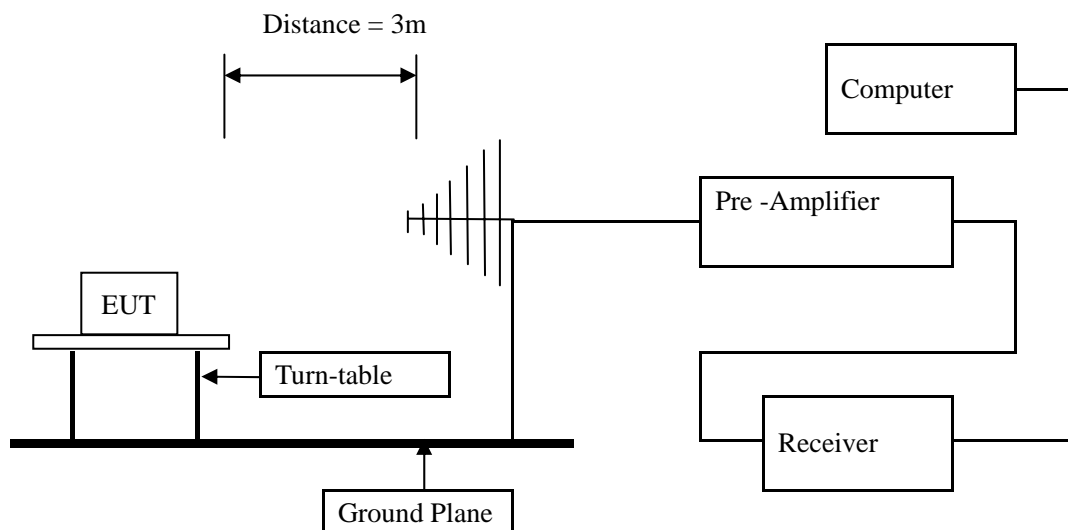


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 5GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

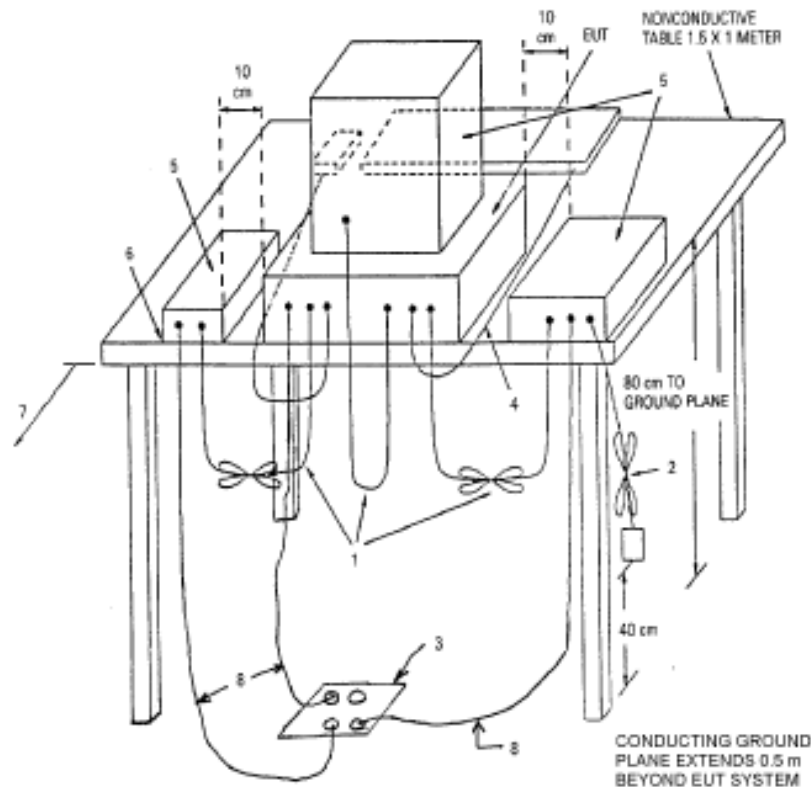
Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: 1.The lower limit shall apply at the transition frequencies

2.This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5.4 Test result

The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120KHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Connect to PC

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
56.675	24.45	H	40.00
129.425	31.91	H	43.50
168.225	34.97	H	43.50
238.550	34.69	H	46.00
723.550	39.25	H	46.00
813.275	42.83	H	46.00
37.351	37.06	V	40.00
44.550	36.34	V	40.00
127.000	39.04	V	43.50
168.225	34.71	V	43.50
325.850	30.64	V	46.00
813.275	43.02	V	46.00

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Test Figure:

H



Test Figure:

V



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Play TF Card

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
56.675	24.20	H	40.00
131.850	31.63	H	43.50
168.225	34.34	H	43.50
238.550	34.78	H	46.00
408.300	32.59	H	46.00
883.600	38.63	H	46.00
44.550	37.48	V	40.00
59.100	32.66	V	40.00
124.575	39.86	V	43.50
168.225	33.92	V	43.50
544.100	39.51	V	46.00
813.275	42.83	V	46.00

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Test Figure:

H



Test Figure:

V



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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Play Memory and Charging

Results: Pass

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
34.850	36.68	H	40.00
44.550	36.83	H	40.00
124.575	39.38	H	43.50
544.100	36.14	H	46.00
813.275	42.96	H	46.00
883.600	40.98	H	46.00
131.850	32.09	V	43.50
168.225	34.35	V	43.50
238.550	33.66	V	46.00
291.900	33.59	V	46.00
813.275	41.27	V	46.00
883.600	41.44	V	46.00

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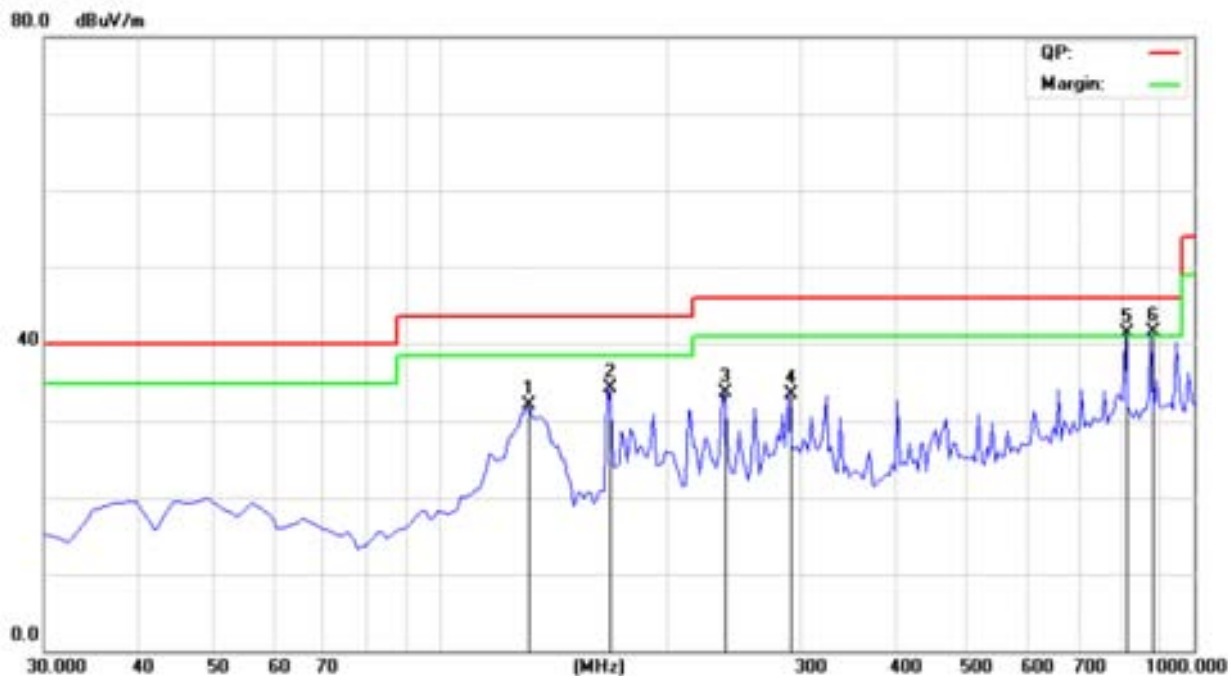
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Test Figure:

H



Test Figure:

V



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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

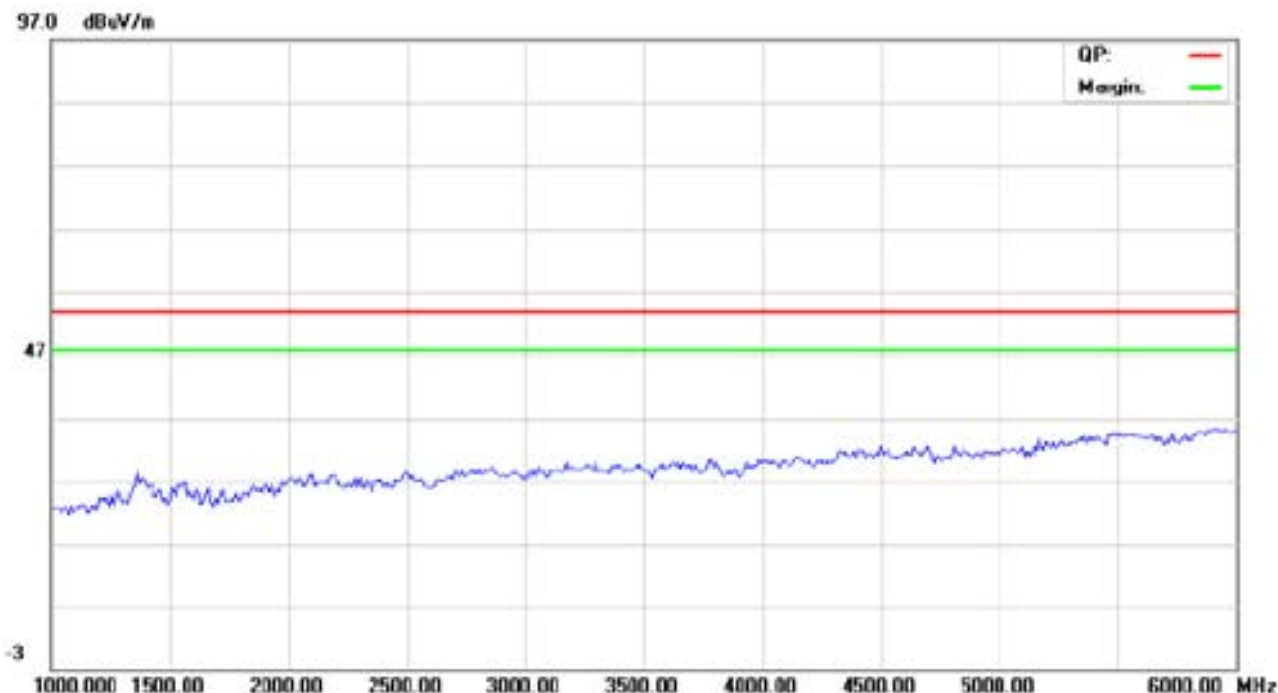
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play Memory and Charging

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	H	54(AV)
--	--	H	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

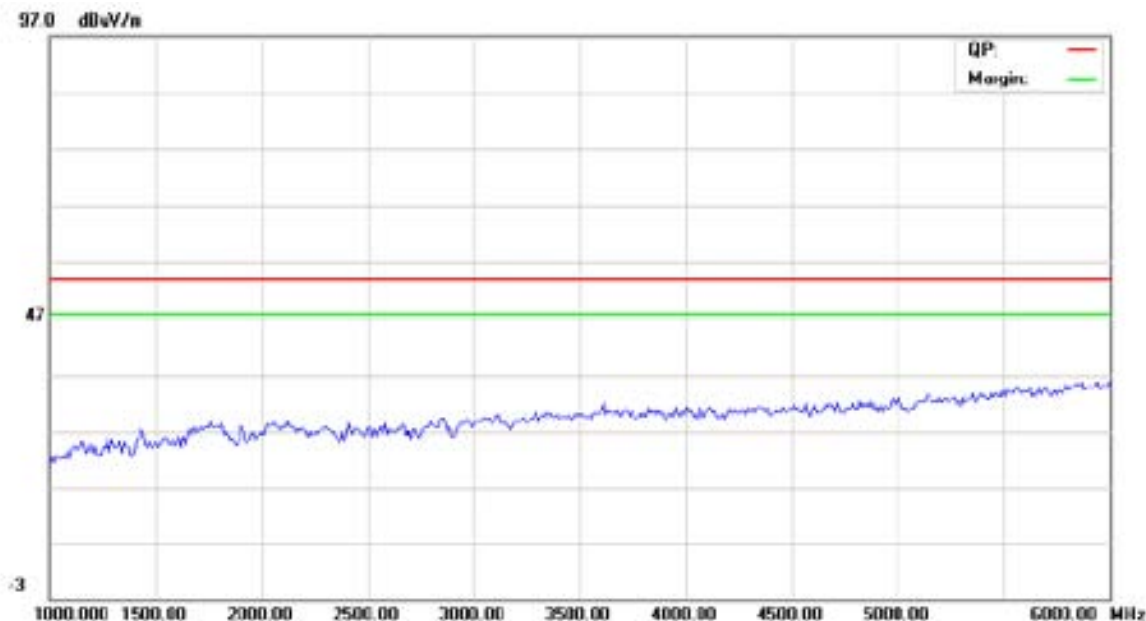
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play Memory and Charging

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)
--	--	V	54(AV)
--	--	V	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

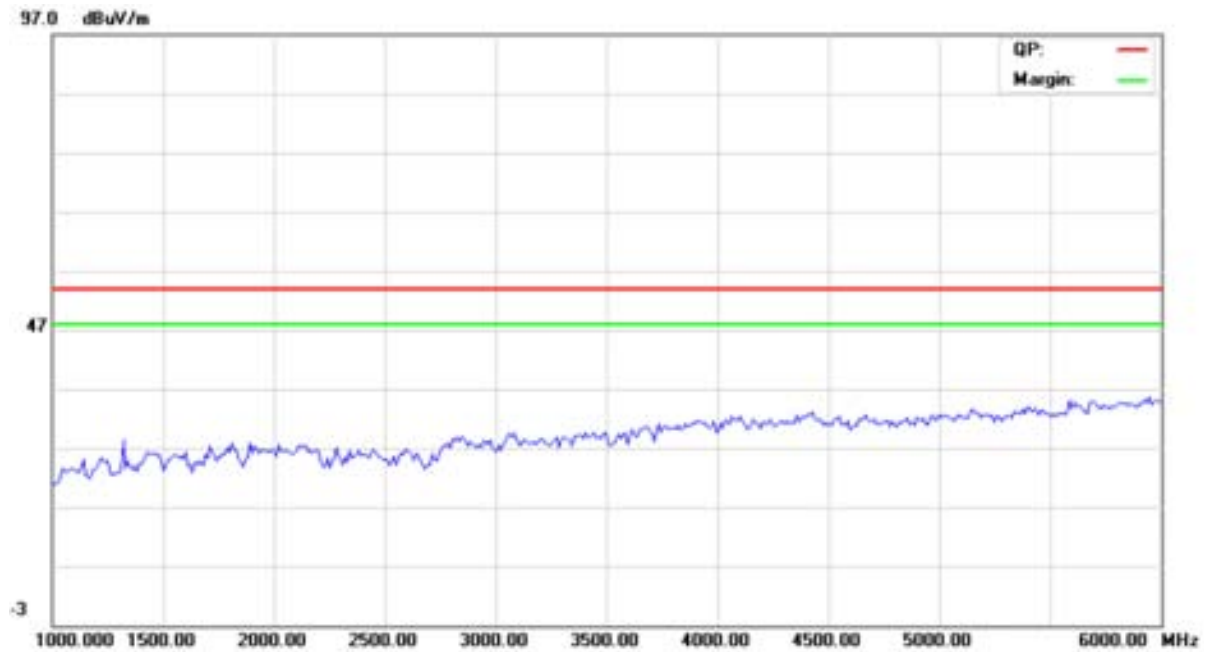
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connected to PC and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
--	--	V	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

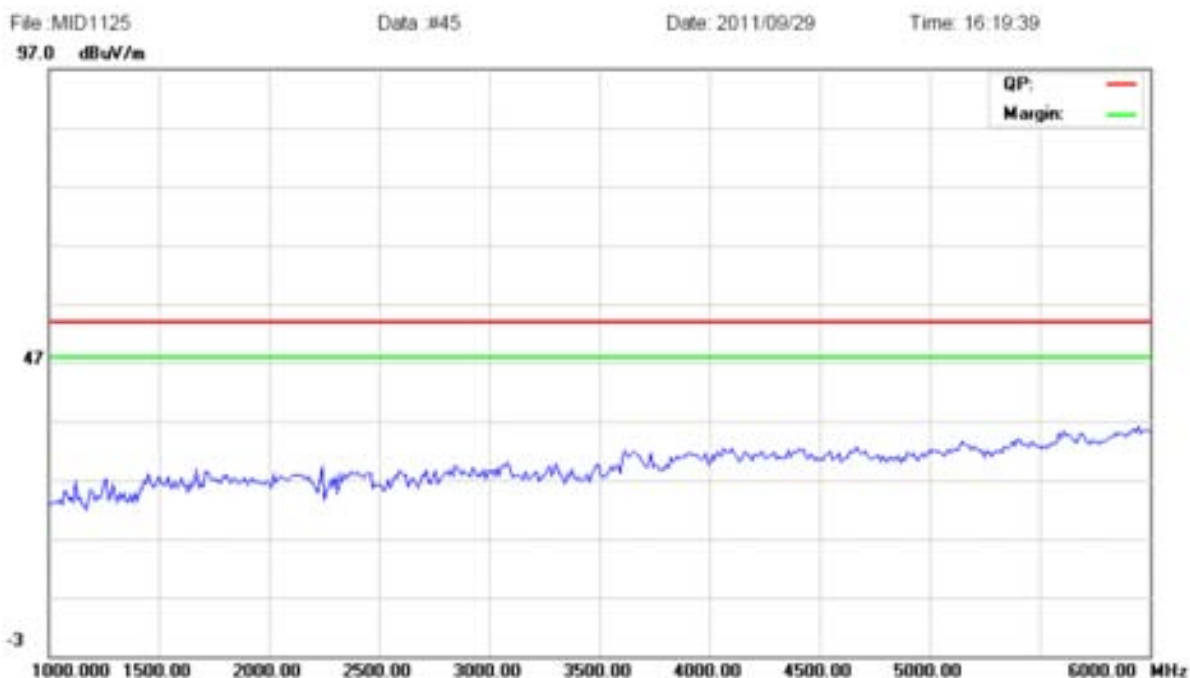
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Connected to PC and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
--	--	H	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

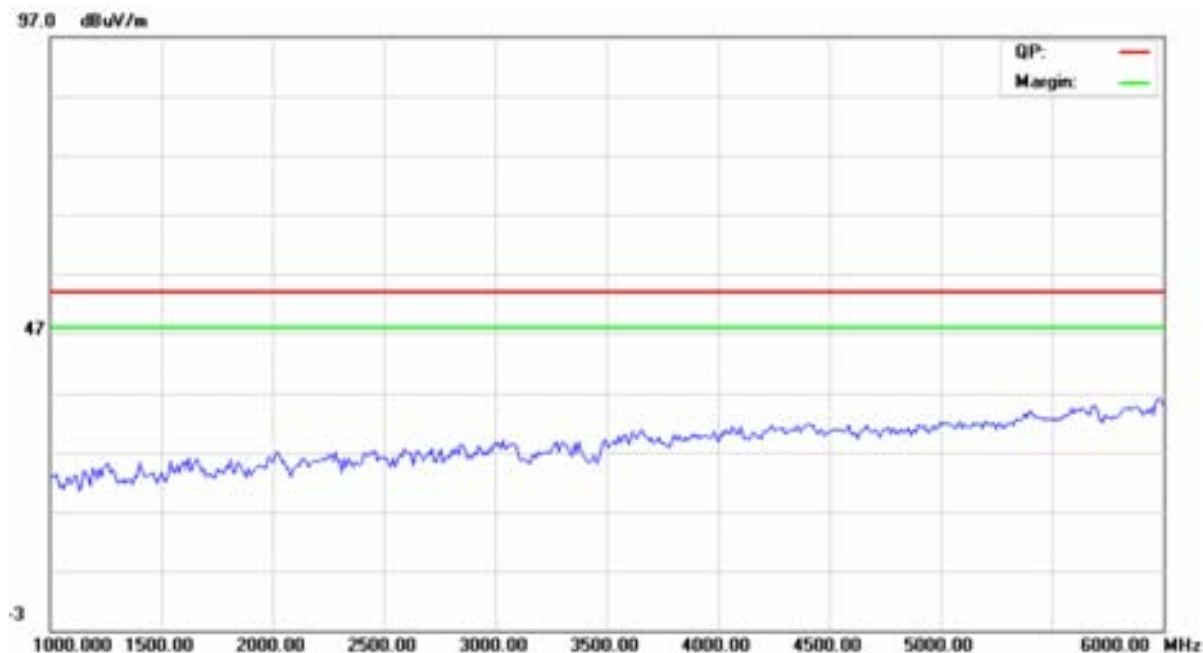
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play SD with HDMI output and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBµV/m)	Antenna Polarity	Limit@3m (dBµV/m)
--	--	H	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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Radiated Disturbance (1000MHz----6000MHz)

EUT Operating Environment

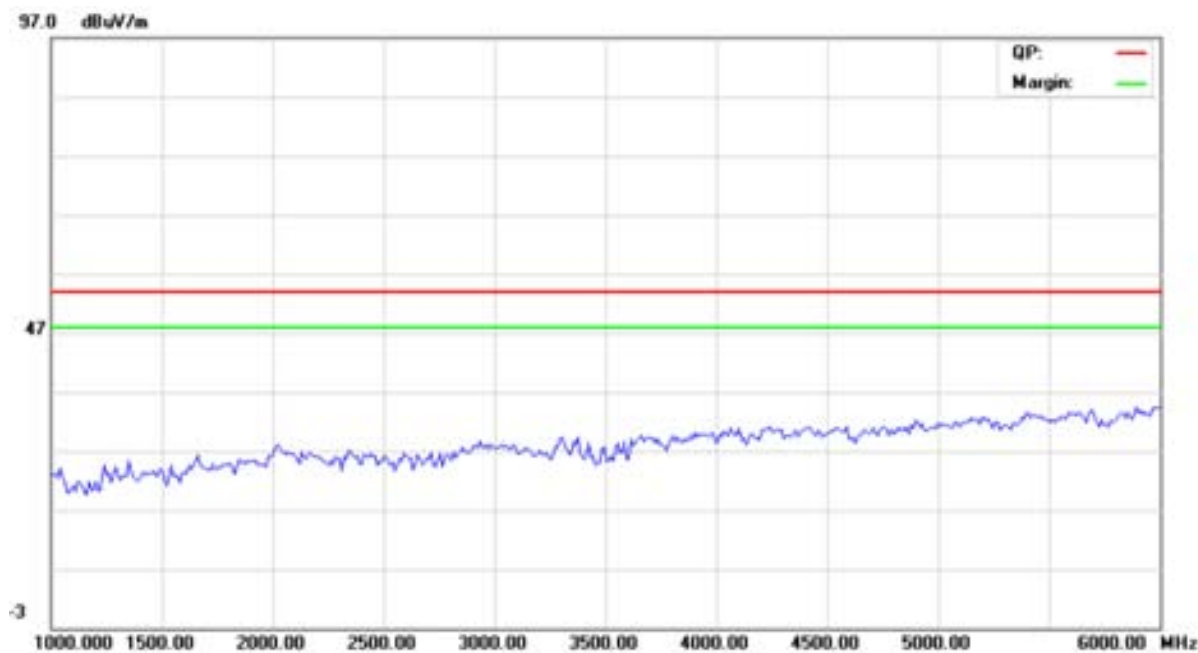
Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Play SD with HDMI output and Full Load

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dBμV/m)	Antenna Polarity	Limit@3m (dBμV/m)
--	--	V	54(AV)

Note: Due to the PK final radiated level less than the AV limit, so necessary take down the AV final radiated level

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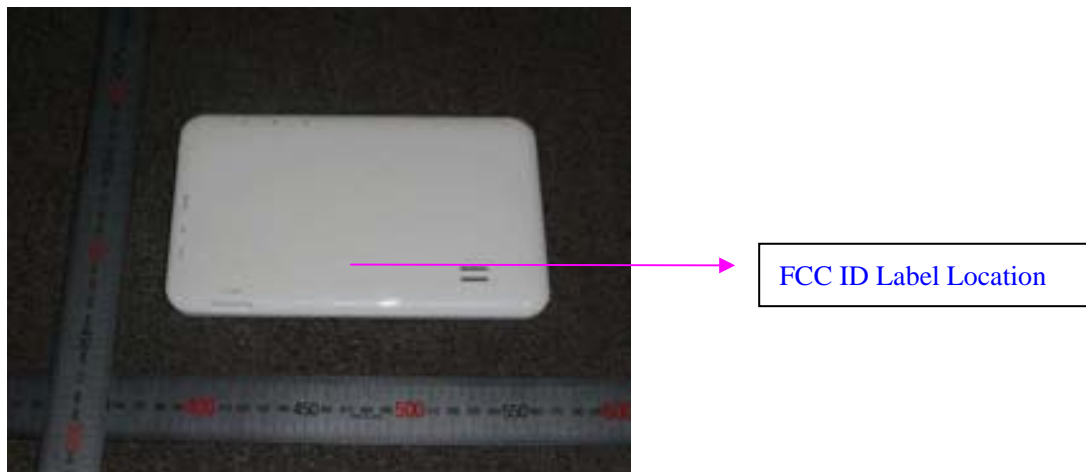
6.0 FCC ID Label

FCC ID: XBIMIDID7101018

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



7.0 Photo of testing

7.1 Conducted test View--

Please refer to report EMC1203141-01

7.2 Radiated emission test view--

Please refer to report EMC1203141-01

-End of the report-

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