

EMC TEST REPORT

Certificate No. : TB181020066
Applicant : ZHUHAI DB-WAY TECHNOLOGY CO., LTD.

Equipment Under Test (EUT)

EUT Name : Music light sleep machine
Model No. : DB-604
Serial Model No. : N/A
Brand Name : ----
Receipt Date : 2018-08-22
Test Date : 2018-08-22 to 2018-08-24
Issue Date : 2018-08-24
Standards : EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:2015

Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above, The EUT technically conforms with the 2014/30/EU directive requirements.

Test/Witness Engineer : 

Engineer Supervisor : 

Engineer Manager : 



Rebeca

Ivan Su

Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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1. General Information

1.1. Client Information

Applicant	:	ZHUHAI DB-WAY TECHNOLOGY CO., LTD.
Address	:	Room 209, 2nd floor, #6 factory, NO.6366, Zhuhai Revenue, Hongqi Town, Jinwan District, Zhuhai City
Manufacturer	:	ZHUHAI DB-WAY TECHNOLOGY CO., LTD.
Address	:	Room 209, 2nd floor, #6 factory, NO.6366, Zhuhai Revenue, Hongqi Town, Jinwan District, Zhuhai City

1.2. General Description of EUT (Equipment Under Test)

EUT Name	:	Music light sleep machine
Model(s)	:	DB-604
Model Difference	:	N/A
Brand Name	:	----
Power Supply	:	DC 5.0 V from the USB Cable. DC 3.7V Li-ion Battery.

1.3. Description of Operating Mode

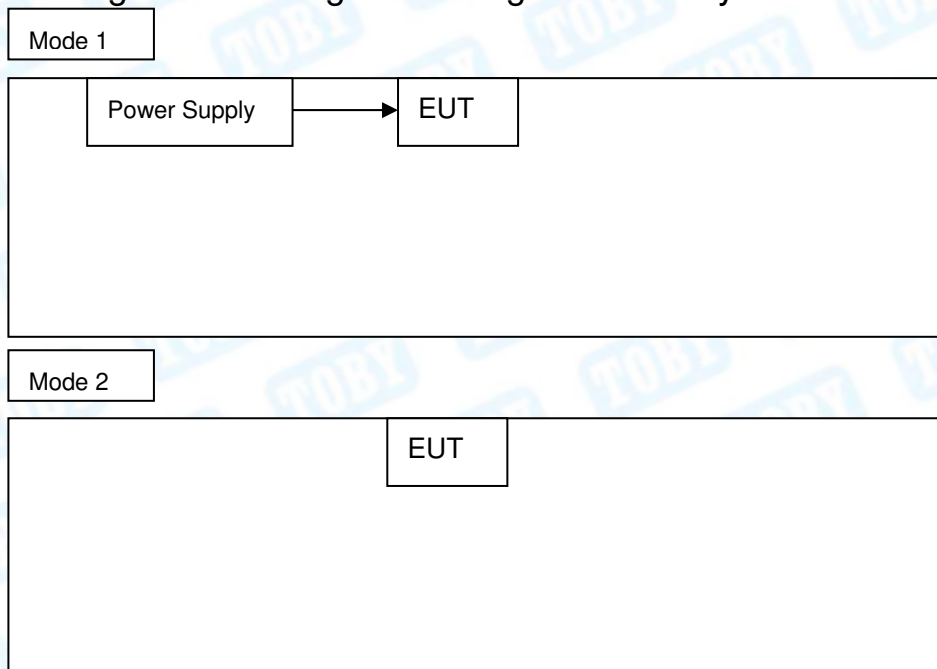
To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Charging Mode
Mode 2	Working Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For EMI Test	
Final Test Mode	Description
Mode 1	Charging Mode
Mode 2	Working Mode
For EMS Test	
Final Test Mode	Description
Mode 1	Charging Mode
Mode 2	Working Mode

1.4. Block Diagram Showing the Configuration of System Tested



1.5. Description of Support Units

Equipment Information				
Name	Model	S/N	Manufacturer	Used “√”
Power Supply	BSY02D050200V	----	BSY	√

1.6. Performance Criterion

Criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion C: Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer’s instructions.

1.7. Classification of Apparatus

Category I: Apparatus containing no electronic control circuitry.

Category II: Transformer toys, dual supply toys, mains powered motor operated appliances, tools, heating appliances and similar electric apparatus(for example-UV radiators, IR radiators and microwave ovens) containing electronic control circuitry with no internal clock frequency or oscillator frequency higher than 15MHz.

Category III: Battery powered apparatus (with built-in batteries or external batteries), which in normal use is not connected to the mains, containing an electronic control circuitry with no internal clock frequency or oscillator frequency higher than 15MHz.

This category includes apparatus provided with rechargeable batteries which can be charged by connecting the apparatus to the mains power. However, this apparatus shall also be tested as an apparatus in category III while it is connected to the mains network.

Category IV: All other apparatus covered by the scope of this standard.

1.8. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test	Parameters	Expanded Uncertainty (U_{Lab})	Expanded Uncertainty (U_{Cispr})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.42 dB ± 3.42 dB	± 4.0 dB ± 3.6 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB	N/A
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.40 dB	± 5.2 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB	N/A
Mains Harmonic	Voltage	$\pm 3.11\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 3.25\%$	N/A

1.9. Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation (A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Results Summary

EMISSION			
Description of test items	Standards	Results	
Conducted disturbance at mains terminals	EN55014-1:2006+A1:2009+A2:2011	N/A	
Disturbance Power	EN55014-1:2006+A1:2009+A2:2011	Pass	
Click measurement	EN55014-1:2006+A1:2009+A2:2011	N/A	
Radiated disturbance	EN55014-1:2006+A1:2009+A2:2011	Pass	
Harmonic current emissions	EN61000-3-2: 2014	N/A	
Voltage fluctuation and flicker	EN61000-3-3: 2013	N/A	
Immunity (EN 55014-2:2015)			
<input type="checkbox"/> Category I	<input type="checkbox"/> Category II	<input type="checkbox"/> Category III	<input checked="" type="checkbox"/> Category IV
Description of test items	Basic Standards	Results	
Electrostatic Discharge (ESD)	EN61000-4-2: 2009	Pass	
Radio-frequency, Continuous Radiated Disturbance	EN61000-4-3: 2006+A1: 2008+A2:2010	Pass	
EFT/B Immunity	EN61000-4-4: 2012	N/A	
Surge Immunity	EN61000-4-5: 2014	N/A	
Conducted RF Immunity	EN61000-4-6: 2014	N/A	
Voltage dips, 40% reduction	EN61000-4-11: 2004	N/A	
Voltage dips, 70% reduction			
Voltage interruptions			

3. Test Equipment Used

Disturbance Power Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 18, 2018	Jul. 17, 2019
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 18, 2018	Jul. 17, 2019
Power Clamp	LUTHI	MDS21	3938	Jul. 18, 2018	Jul. 17, 2019
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 18, 2018	Jul. 17, 2019
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Jul. 18, 2018	Jul. 17, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 16, 2018	Mar. 15, 2019
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 16, 2018	Mar. 15, 2019
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 16, 2018	Mar. 15, 2019
Pre-amplifier	HP	11909A	185903	Mar. 17, 2018	Mar. 16, 2019
Pre-amplifier	HP	8449B	3008A00849	Mar. 17, 2018	Mar. 16, 2019
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 17, 2018	Mar. 16, 2019
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Mar. 17, 2018	Mar. 16, 2019
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Discharge Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
ESD Tester	TESEQ	NSG437	304	Aug. 08, 2018	Aug. 07, 2019
Radiated Immunity Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due Date
Signal Generator	Rohde & Schwarz	SMT03	200754	Mar. 22, 2018	Mar. 21, 2019
Power Meter	Rohde & Schwarz	NRVD	110562	Feb. 12, 2018	Feb. 11, 2019
Voltage Probe	Rohde & Schwarz	URV5-Z2	12056	Feb. 12, 2018	Feb. 11, 2019
Voltage Probe	Rohde & Schwarz	URV5-Z2	12074	Feb. 12, 2018	Feb. 11, 2019
RF Amplifier	AR	50S1G4A	326720	Feb. 12, 2018	Feb. 11, 2019
Bilog Antenna	ETS	3142C	00047662	Feb. 12, 2018	Feb. 11, 2019
Horn Antenna	ARA	DRG-118A	16554	Feb. 12, 2018	Feb. 11, 2019

4. Disturbance Power Measurement

4.1. Test Standard and Limit

4.1.1. Test Standard

EN55014-1: 2006+A1: 2009+A2: 2011.

4.1.2. Test Limit

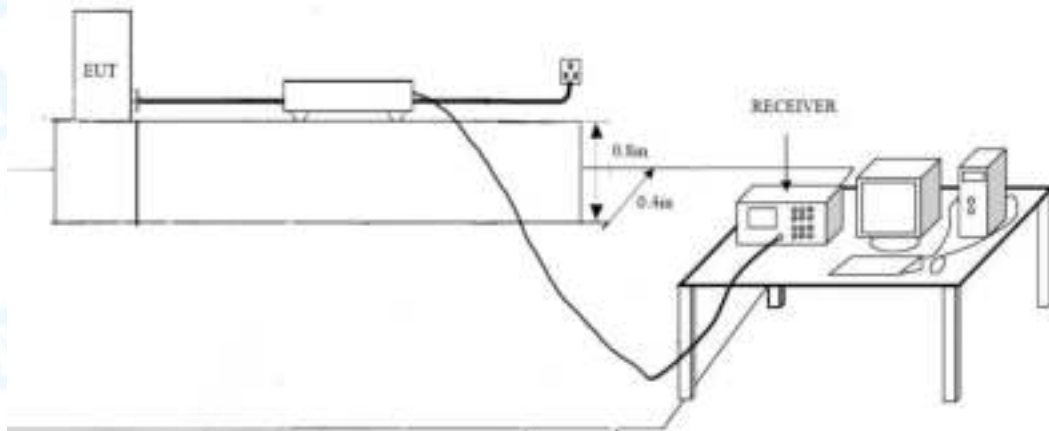
Disturbance Power Limits

1	Household and similar appliances		Tools					
	2	3	4	5	6	7	8	9
Frequency range			Rated motor power not exceeding 700W		Rated motor power above 700W and not exceeding 1000W		Rated motor power above 1000W	
(MHz)	dB(pW) Quasi-peak	dB(pW) Average ^a	dB(pW) Quasi-peak	dB(pW) Average ^a	dB(pW) Quasi-peak	dB(pW) Average ^a	dB(pW) Quasi-peak	dB(pW) Average ^a
30 to 300	Increasing linearly with the frequency from:							
	45 to 55	35 to 45	45 to 55	35 to 45	49 to 59	39 to 49	55 to 65	45 to 55
^a If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out. At the transition frequency the lower limit applies.								

Margin when performing disturbance power measurement

1	Household and similar appliances		Tools					
	2	3	4	5	6	7	8	9
Frequency Range			Rated motor power not exceeding 700W		Rated motor power above 700W and not exceeding 1000W		Rated motor power above 1000W	
(MHz)	dB(pW) Quasi-peak	dB(pW) Average	dB(pW) Quasi-peak	dB(pW) Average	dB(pW) Quasi-peak	dB(pW) Average	dB(pW) Quasi-peak	dB(pW) Average
200 to 300	Increasing linearly with the frequency from							
	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-	0 to 10 dB	-
NOTE 1 This table only applies if specified 4.1.2.3.2.								
NOTE 2 The measured result at a particular frequency shall be less than the relevant limit minus the corresponding margin (at that frequency)								

4.2. Test Setup



4.3. Test Procedure

The EUT is placed on the plane 0.8m high above the ground by insulating support and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the field strength meter is set at 120kHz.

4.4. Test Data

Please refer to the Attachment A.

5. Radiated Disturbance Test

5.1. Test Standard and Limit

5.1.1. Test Standard

EN55014-1: 2006+A1: 2009+A2: 2011.

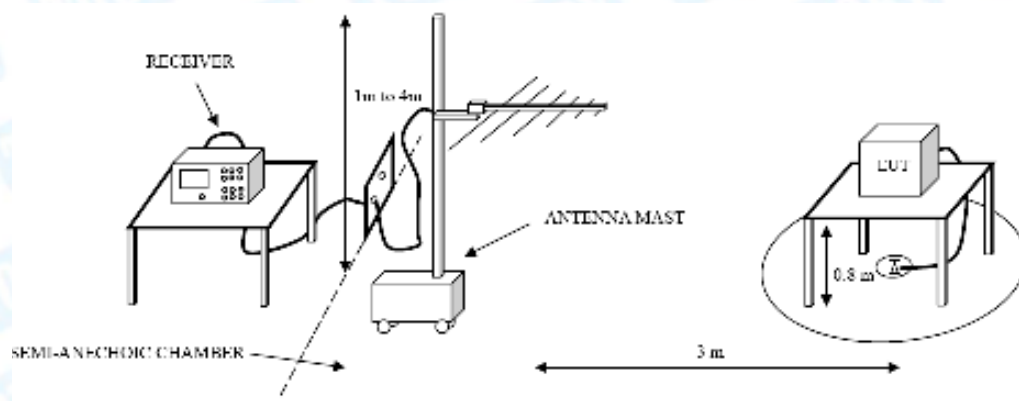
5.1.2. Test Limit

Radiated Disturbance Test Limit

Frequency	Limit (dB μ V/m)
	Quasi-peak Level
30MHz~230MHz	40
230MHz~300MHz	47
300MHz~1000MHz	47

Remark: 1. The lower limit shall apply at the transition frequency.
2. The test distance is 3m.

5.2. Test Setup



5.3. Test Procedure

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

The initial step in collecting radiated emission data is a spectrum Quasi Peak detector mode scanning the measurement frequency range.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

5.4. Test Data

Please refer to the Attachment B.

6. Electrostatic Discharge Immunity Test

6.1. Test Requirements

6.1.1. Test Standard

EN55014-2: 2015 (EN 61000-4-2:2009)

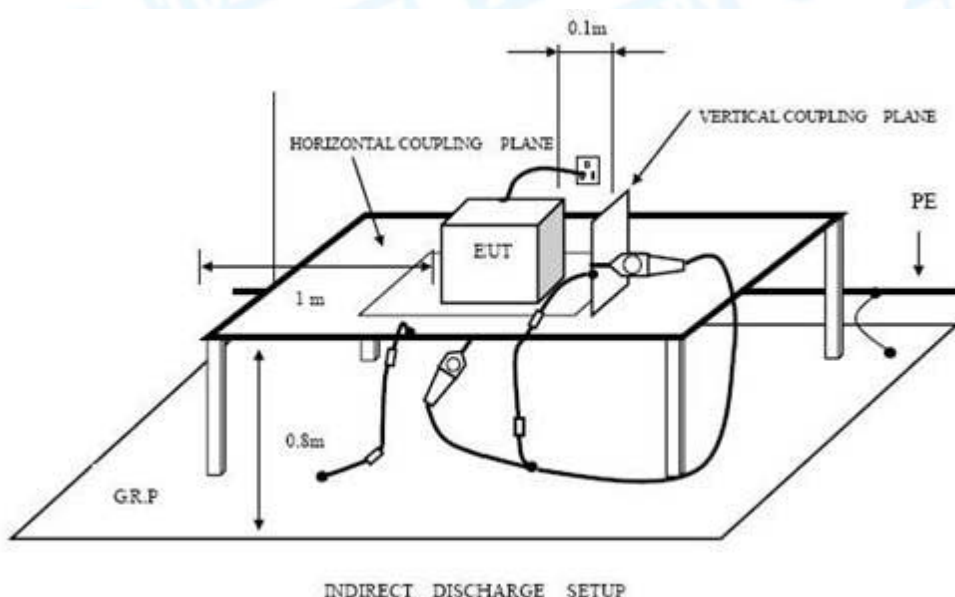
6.1.2. Test Level

Characteristics	Test Levels
Air Discharge	±8 kV
Contact Discharge	±4 kV

Remark: Apply 20 discharges (10 with positive and 10 with negative polarity) to each selected discharging point.

6.1.3. Performance criterion: B

6.2. Test Setup



6.3. Test Procedure

6.3.1. Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

6.3.2. Contact Discharge:

All the procedure shall be same as air discharge. Except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.3.3. Indirect discharge for horizontal coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied at the front edge of each HCP opposite the center point of each unit (if applicable) of the EUT and 0.1m from the front of the EUT. The long axis of the discharge electrode shall be in the plane of the HCP and perpendicular to its front edge during the discharge.

6.3.4. Indirect discharge for vertical coupling plane

At least 10 single discharges (in the most sensitive polarity) shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

6.4. Test Data

Please refer to the Attachment C.

7. Radiated Electromagnetic Field Immunity test

7.1. Test Requirements

7.1.1. Test Standard

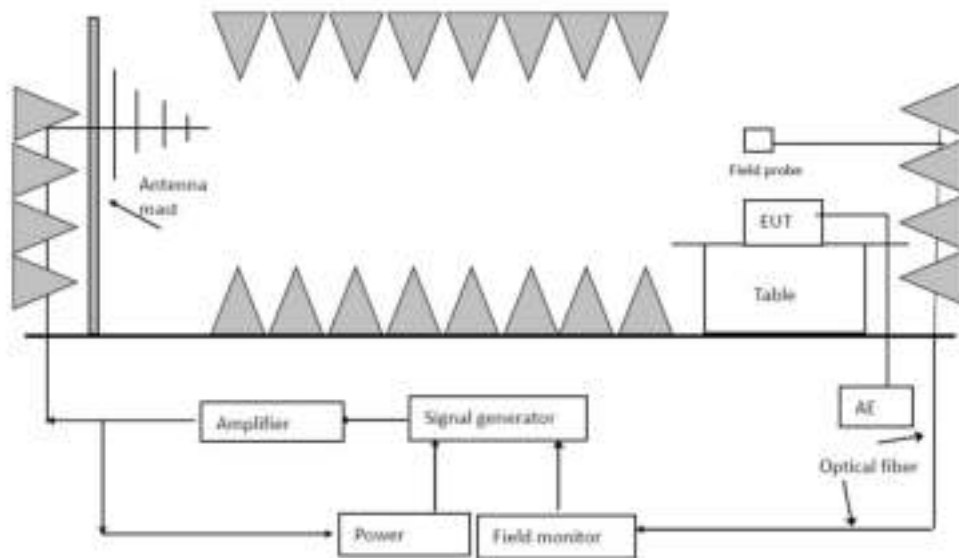
EN 55014-2: 2015 (EN 61000-4-3:2006+A1:2008+A2:2010)

7.1.2. Test Level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

7.1.3. Performance criterion: A

7.2. Test Setup



7.3. Test Procedure

The EUT are placed on a table, which is 0.8 meter high above the ground. The EUT is set 3 meters away from the transmitting antenna, which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna is set on test. Each of the four sides of the EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a camera is used to monitor its screen.

All the scanning conditions are as following:

Condition of Test	Remark
1. Fielded Strength	3V/m (Severity Level 2)
2. Radiated Signal	1KHz, 80% AM Modulated
3. Scanning Frequency	80-1000MHz
4. Sweep time of radiated	0.0015 Decade/s
5. Dwell Time	1 Sec.

7.4. Test Data

Please refer to the Attachment D.

8. Photographs - Constructional Details

Photo 1 Appearance of EUT



Photo 2 Appearance of EUT



Photo 3 Appearance of EUT

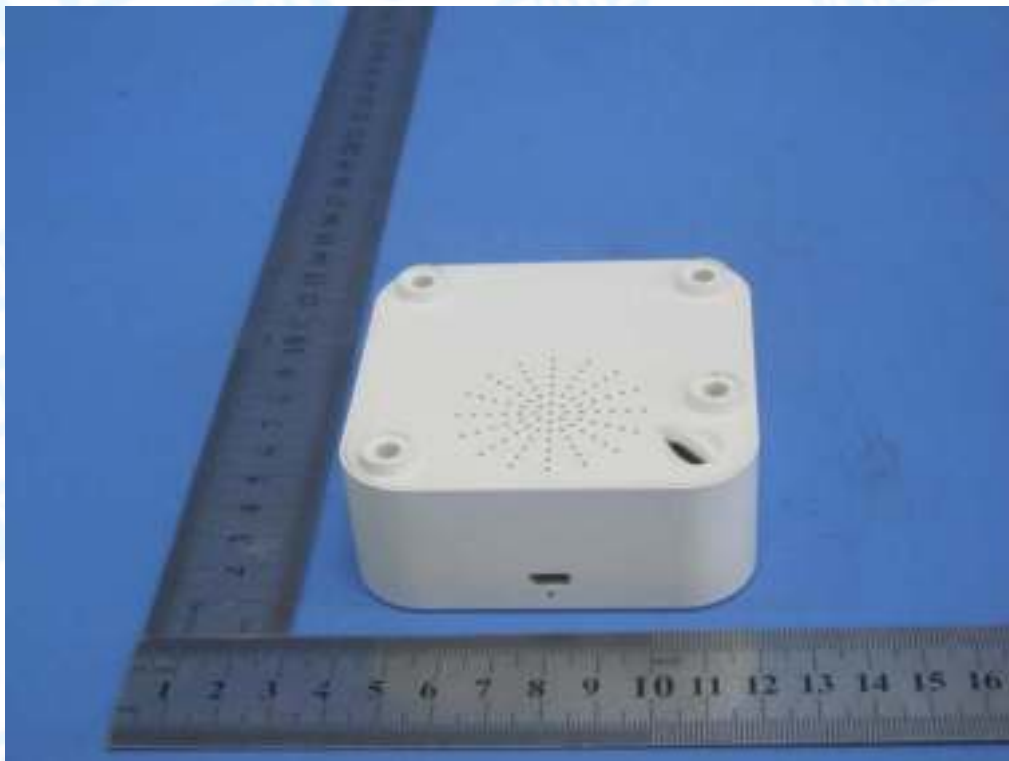


Photo 4 Internal of EUT



Photo 5 Appearance of PCB

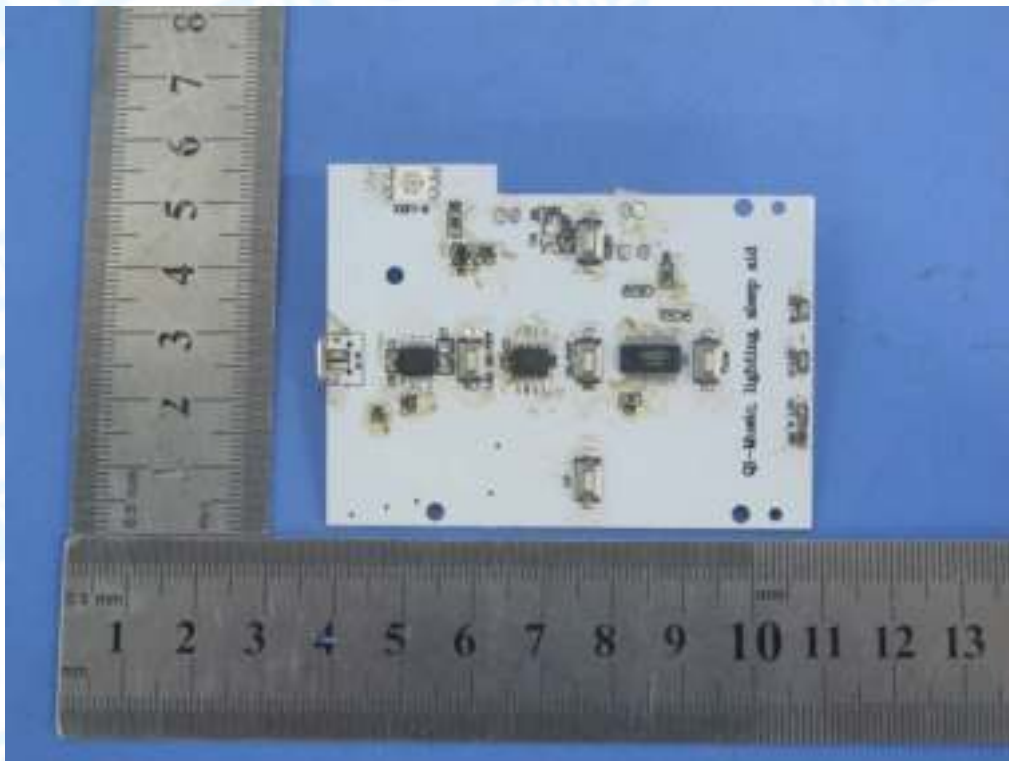
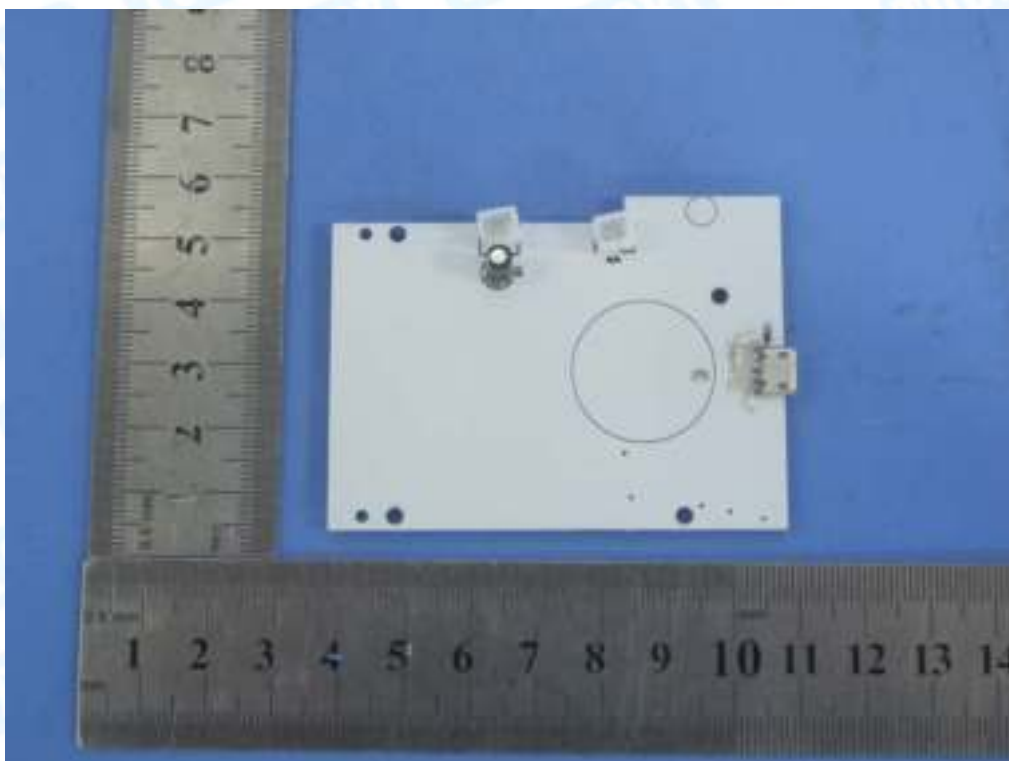


Photo 6 Appearance of PCB

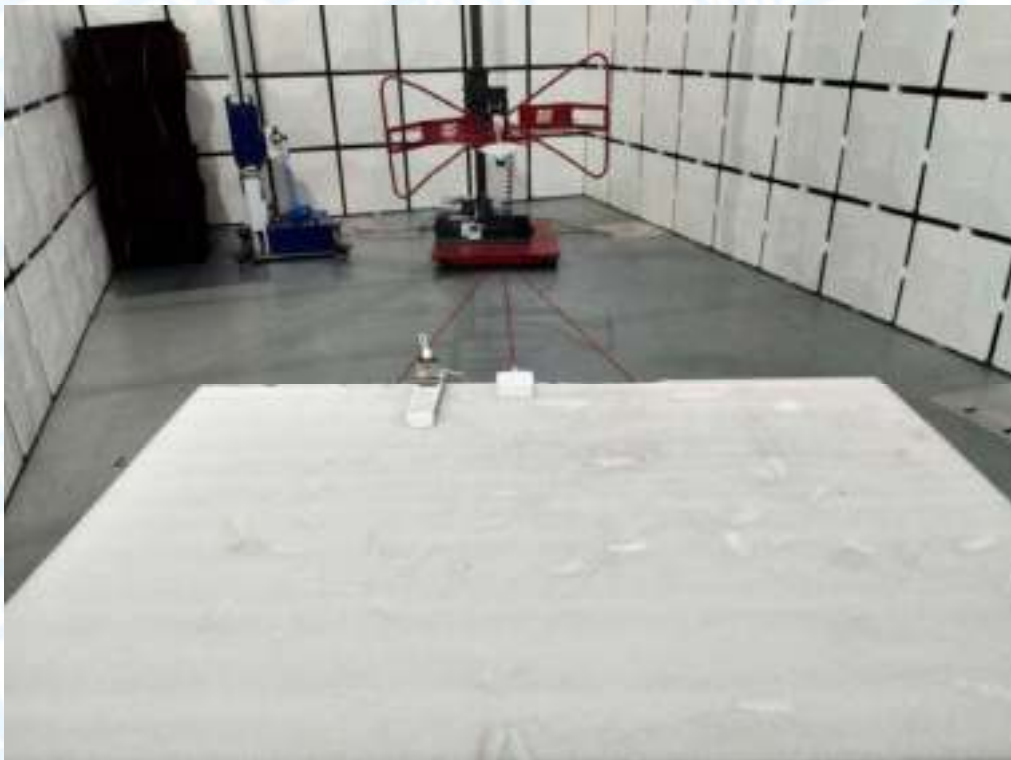


9. Photographs - Test Setup

Disturbance Power Test Setup



Radiated Emission Test Setup



Radiated Emission Test Setup



Electrostatic Discharge Test Setup

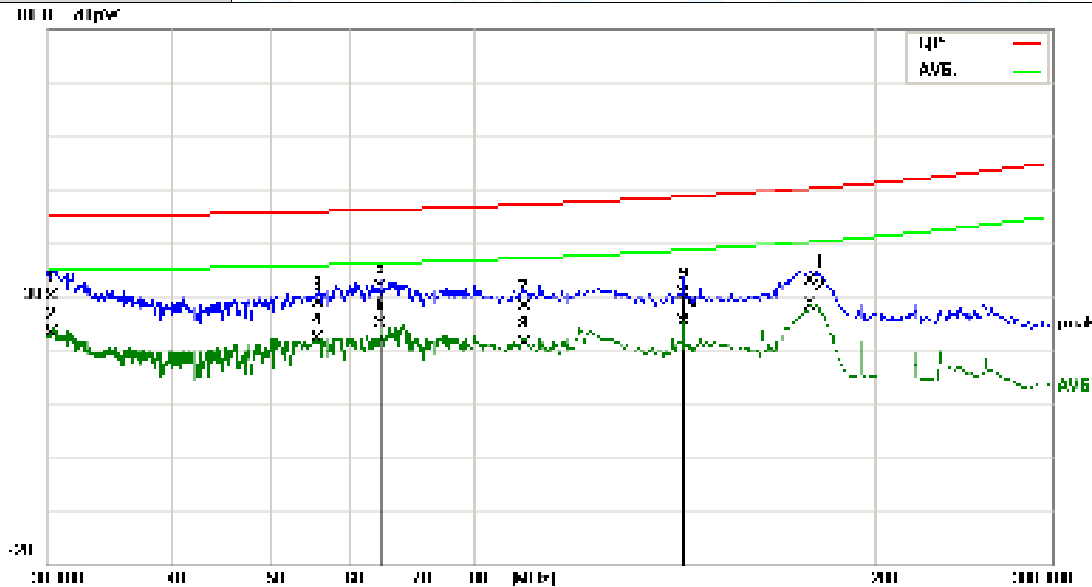


Electrostatic Discharge Test Setup



Attachment A-- Disturbance Power Measurement Data

Temperature:	23 °C	Relative Humidity:	52%
Test Voltage:	DC 5V		
Terminal	DC Mains		
Test Mode:	Mode 1		
Remark:			



No.	Mk.	Freq. MHz	Reading Level dBpW	Correct Factor dB	Measure- ment dBpW	Limit dBpW	Over dB	Detector
1		30.4000	0.31	29.72	30.03	45.01	-14.98	QP
2		30.4000	-6.62	29.72	23.10	35.01	-11.91	AVG
3		55.8400	1.60	26.91	28.51	45.96	-17.45	QP
4		55.8400	-4.69	26.91	22.22	35.96	-13.74	AVG
5		64.4000	5.11	26.49	31.60	46.27	-14.67	QP
6	*	64.4000	-1.58	26.49	24.91	36.27	-11.36	AVG
7		89.5600	2.96	25.12	28.08	47.21	-19.13	QP
8		89.5600	-3.83	25.12	21.29	37.21	-15.92	AVG
9		128.8000	5.72	24.96	30.68	48.66	-17.98	QP
10		128.8000	0.43	24.96	25.39	38.66	-13.27	AVG
11		172.0800	7.52	25.36	32.88	50.26	-17.38	QP
12		172.0800	2.94	25.36	28.30	40.26	-11.96	AVG

Emission Level= Read Level+ Correct Factor

Attachment B--Radiated Emission Test Data (Below 1G)

Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010 hPa		
Test Voltage:	DC 5V		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1		
Remark:			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBμV	dBm	dBμV/m	dBμV/m	dB	
1		54.8348	41.80	-23.79	18.01	40.00	-21.99	peak
2		117.7725	44.73	-22.32	22.41	40.00	-17.59	peak
3		133.6188	54.23	-22.46	31.77	40.00	-8.23	peak
4	*	149.4857	54.03	-21.49	32.54	40.00	-7.48	peak
5		186.0880	52.98	-20.87	32.11	40.00	-7.89	peak
6		232.5318	48.82	-18.15	30.67	47.00	-16.33	peak

Emission Level= Read Level+ Correct Factor

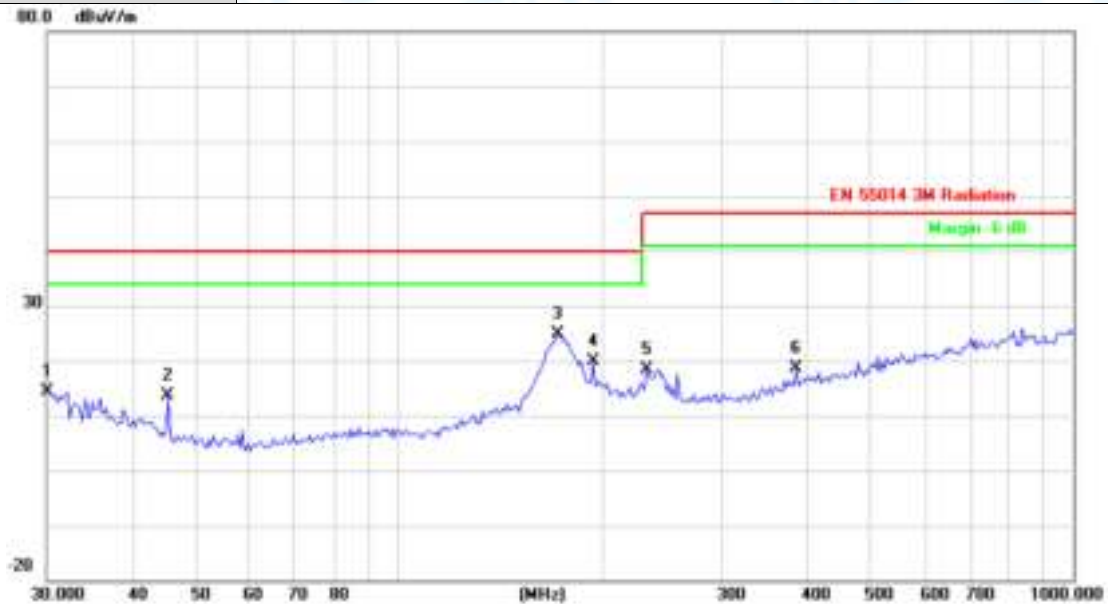
Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010 hPa		
Test Voltage:	DC 5V		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:			



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dbuV	dBm	dbuV/m	dbuV/m	dB	
1		34.2760	44.63	-16.22	28.41	40.00	-11.59	peak
2		49.0145	54.98	-22.92	32.06	40.00	-7.94	peak
3		113.7143	53.46	-22.38	31.08	40.00	-8.92	peak
4	"	129.0146	58.37	-22.43	35.94	40.00	-3.06	peak
5	!	144.3348	58.00	-22.03	35.97	40.00	-4.03	peak
6		163.7550	51.93	-20.75	31.18	40.00	-8.82	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010 hPa		
Test Voltage:	DC 3.7V		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1		
Remark:			



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.2111	27.61	-13.16	14.45	40.00	-25.55	peak
2		45.3755	35.31	-21.70	13.61	40.00	-26.39	peak
3		171.9946	45.21	-20.45	24.76	40.00	-15.24	peak
4		193.7728	39.80	-19.87	19.93	40.00	-20.07	peak
5		232.5318	36.59	-18.15	18.44	47.00	-28.56	peak
6		387.9920	31.34	-12.83	18.51	47.00	-28.49	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 °C	Relative Humidity:	55%
Pressure:	1010 hPa		
Test Voltage:	DC 3.7V		
Ant. Pol.	Vertical		
Test Mode:	Mode 1		
Remark:			

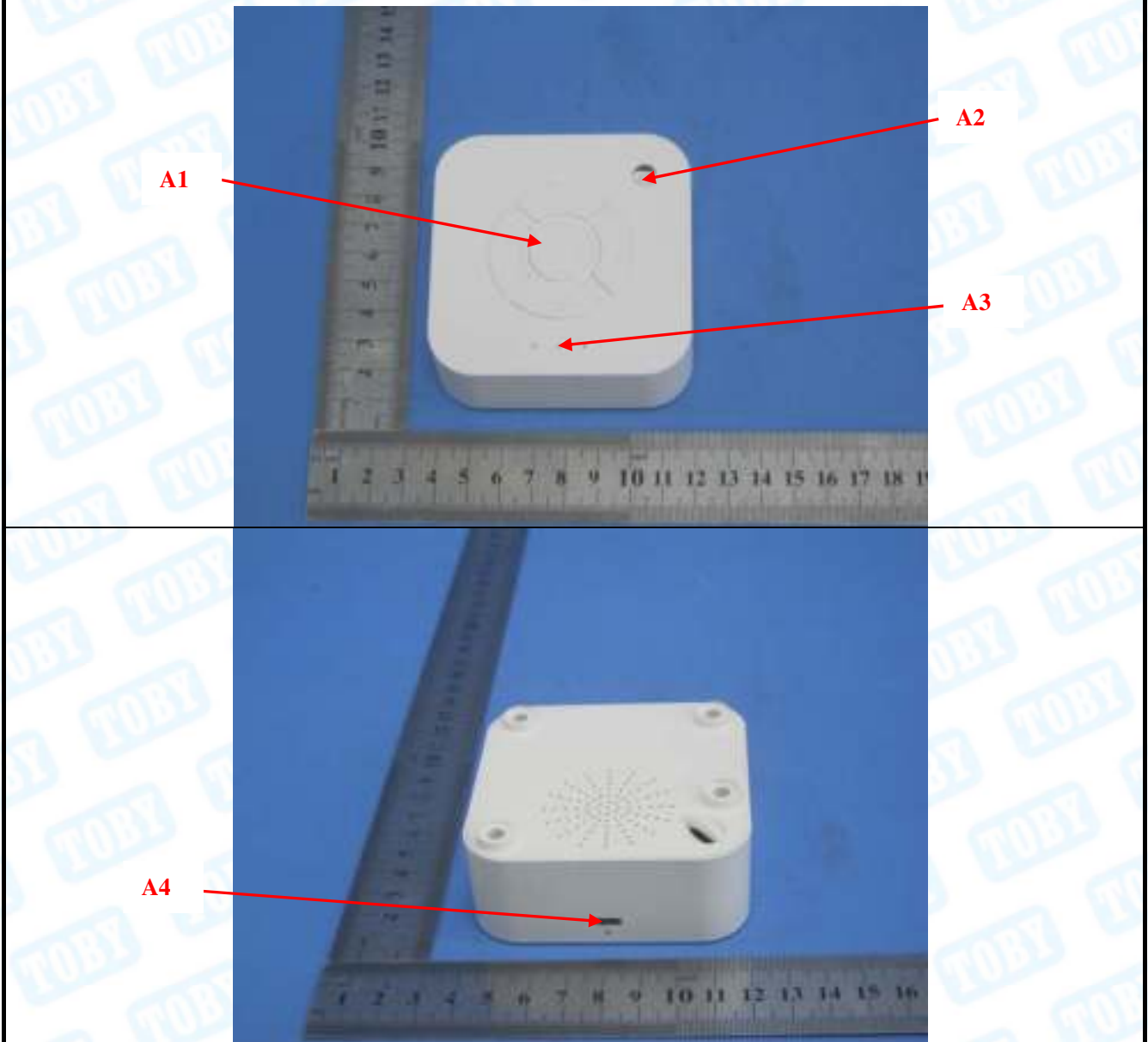


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		30.8535	28.49	-13.64	14.85	40.00	-25.15	peak
2		33.7988	31.29	-15.86	15.43	40.00	-24.57	peak
3		38.7862	31.17	-17.59	13.58	40.00	-26.42	peak
4		45.3755	32.72	-21.70	11.02	40.00	-28.98	peak
5	*	170.7926	41.63	-20.49	21.14	40.00	-18.86	peak
6		684.7454	30.78	-7.23	23.53	47.00	-23.47	peak

Emission Level= Read Level+ Correct Factor

Attachment C--Electrostatic Discharge Test Data

Temperature : 22°C		Humidity : 50%		
Power supply : DC 5V/3.7V		Test Mode : Mode 1/2		
Required Performance Criteria: B				
Air Discharge:±8kV Contact Discharge:±4kV				
Location	Test Level (kV)	No. of Discharge	Judgment	Result
A1	±8kV	20	A	PASS
A2		20	A	
A3		20	A	
A4		20	A	
HCP	±4kV	40	A	
VCP	±4kV	40	A	

Test Location Photos**Remark:**

- 1) Criteria A: The apparatus shall continue to operate as intended during the test.
- 2) Criteria B: The apparatus shall continue to operate as intended after the test.
- 3) Criteria C: The system shut down during the test, Provide the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

Attachment D--RF Field Strength Susceptibility Test Data

Temperature	: 22°C	Humidity	: 50%		
Power supply	: DC 5V/3.7V	Test Mode	: Mode 1/2		
Required Performance Criteria: A					
Unmodulation, 3V/m(r.m.s)					
EUT Position	Actual Performance Criteria				Result
	Frequency Range 1: 80~1000MHz		Frequency Range 2: /		
	Horizontal	Vertical	Horizontal	Vertical	
Front	A	A	/	/	PASS
Right	A	A	/	/	PASS
Rear	A	A	/	/	PASS
Left	A	A	/	/	PASS
Remark:					
1) Criteria A: The apparatus shall continue to operate as intended during the test. 2) Criteria B: The apparatus shall continue to operate as intended after the test. 3) Criteria C: The system shut down during the test, Provide the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.					

-----END OF REPORT-----