



Shenzhen Certification Technology Service Co., Ltd
2F, Building B, East Area of Nanchang Second Industrial Zone,
Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China.

TEST REPORT

FCC ID: RPB-KD900

Applicant : SHENZHEN YICHE TECHNOLOGY CO., LTD
Address : 401,3 Bldg., Jianxing, Chaguang Industrial Park, Xili Town, Nan Shan Dist., Shenzhen, China

Equipment under Test (EUT):

Name : Remote Generator
Model : KD-900

Standards : FCC PART 15, SUBPART C : 2013 (Section 15.231)
Report No. : CST-TCB140416013
Date of Test : June 10-19, 2014
Date of Issue : June 20, 2014

Test Result :	PASS *
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* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)
General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report.

If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Certification Technology Service Co., Ltd. Or test done by Shenzhen Certification Technology Service Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Certification Technology Service Co., Ltd. Approvals in writing.

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1 General Information

1.1 Description of Device (EUT)

Trade Name : N/A

EUT : Remote Generator

Model No. : KD-900

Type of Antenna : PCB antenna, Max Gain 0dBi.

Operation Frequency : 433.92 MHz

Channel number : 1

Modulation type : ASK

Power Supply : DC 6V Supply By Battery or DC 5V From PC With AC 120V/60Hz

Rated PF
output Power 70.42 dBuV (Peak detector)

Applicant : SHENZHEN YICHE TECHNOLOGY CO., LTD

Address : 401,3 Bldg., Jianxing, Chaguang Industrial Park, Xili Town, Nan Shan
Dist., Shenzhen, China

Manufacturer : SHENZHEN YICHE TECHNOLOGY CO., LTD

Address : 401,3 Bldg., Jianxing, Chaguang Industrial Park, Xili Town, Nan Shan
Dist., Shenzhen, China

1.2 Description of Test Facility

Shenzhen Certification Technology Service Co., Ltd.
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FCC Registered No.:197647

2 EMC Equipment List

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
3m Semi-Anechoic	ETS-LINDGREN	N/A	SEL0017	Nov 16, 13	1Year
Spectrum analyzer	Agilent	E4407B	MY49510055	Oct. 30, 13	1Year
Receiver	R&S	ESCI	101165	Oct. 30, 13	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-438	Mar.11, 14	1Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	Mar.11, 14	1Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	Mar.11, 14	1Year

3 Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 u H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB= 44.46 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

4 Summary of Measurement

4.1 Summary of test result

Test Item	Test Requirement	Stanadard Paragraph	Result
Spurious Emission	FCC PART 15: 2013	Section 15.231&15.209	Compliance
Conduction Emission	FCC PART 15: 2013	Section 15.207	Compliance
Occupied bandwidth	FCC PART 15: 2013	Section 15.231	Compliance
Transmission time	FCC PART 15: 2013	Section 15.231	Compliance
Band Edge	FCC PART 15: 2013	Section 15.231	Not applicable
Antenna Requirement	FCC PART 15 : 2013	Section 15.203	Compliance

Note: All buttons of the EUT have been tested and only worst case reported. The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The new battery be used during Test)

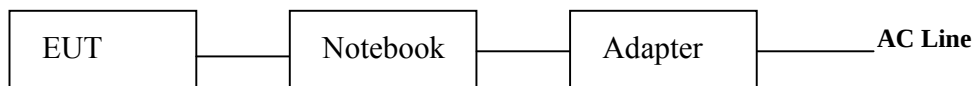
1. we also estimated location of the XYZ 3 axis, the X axis is the worst mode.

4.2 Block Diagram

Mode 1:



Mode 2:



4.3 Assistant equipment used for test

Description : Notebook
Manufacturer : Great Wall
Model No. : T80

Description : USB Cable
Manufacturer : SHENZHEN YICHE TECHNOLOGY CO., LTD
Model No. : N/A

4.4 Test Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

4.5 Measurement Uncertainty (95% confidence levels, k=2)

Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.50dB	
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB	Polarize: V
	2.57dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.04dB	Polarize: V
	3.02dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.84dB	Polarize: H
	3.56dB	Polarize: V
Uncertainty for radio frequency	1×10^{-9}	
Uncertainty for temperature	0.2℃	
Uncertainty for humidity	3%	
Uncertainty for DC and low frequency voltages	0.06%	

5 Radiation Emission

5.1 Radiation Emission Limits(15.209&231)

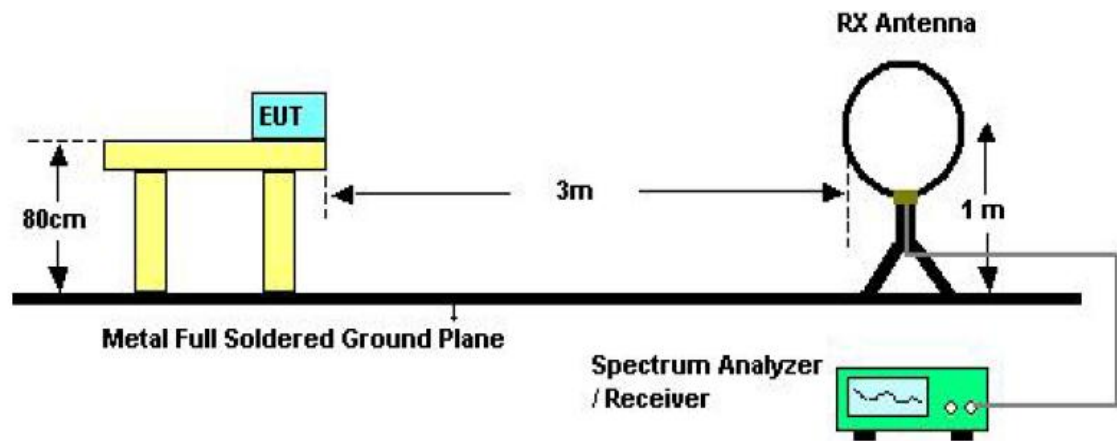
Frequency (MHz)	Field Strength Limits at 3 metres (watts, e.i.r.p.)		
	uV/m	dB uV/m	Measurement distance(m)
0.009-0.490	2400/F(kHz)	XX	300
0.490-1.705	24000/F(kHz)	XX	30
1.705-30	30	29.5	30
30~88	100(3nW)	40	3
88~216	150(6.8nW)	43.5	3
216~960	200(12nW)	46	3
Above960	500(75nW)	54	3
Carrier frequency		80.8(AV)	3
Carrier frequency		100.8(PK)	3

NOTE:

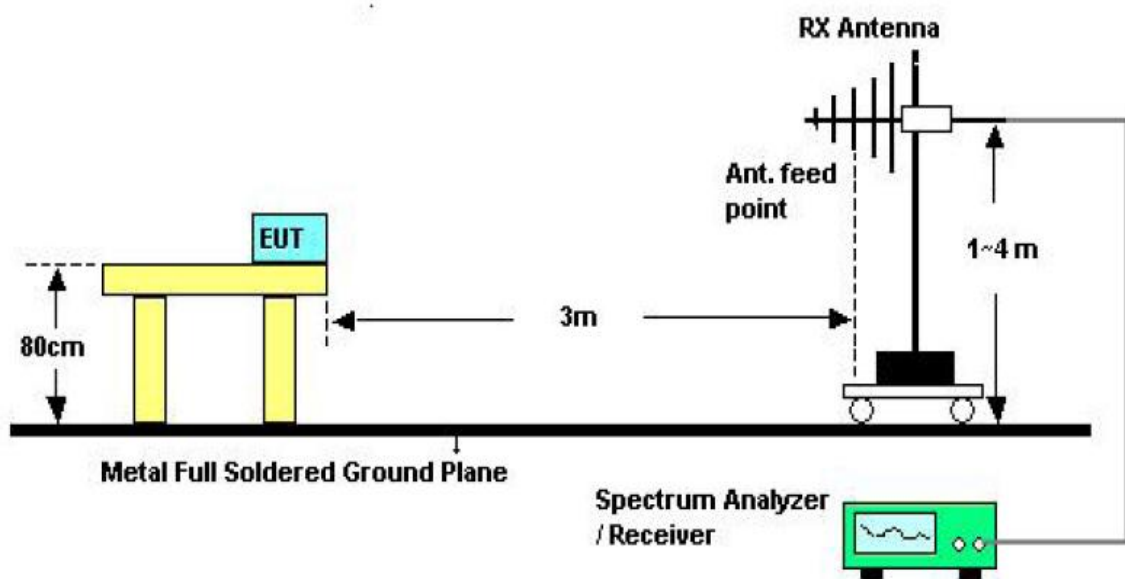
- a) The tighter limit applies at the band edges.
- b) Emission Level(dB uV/m)=20log Emission Level(Uv/m)

5.2 Test Setup

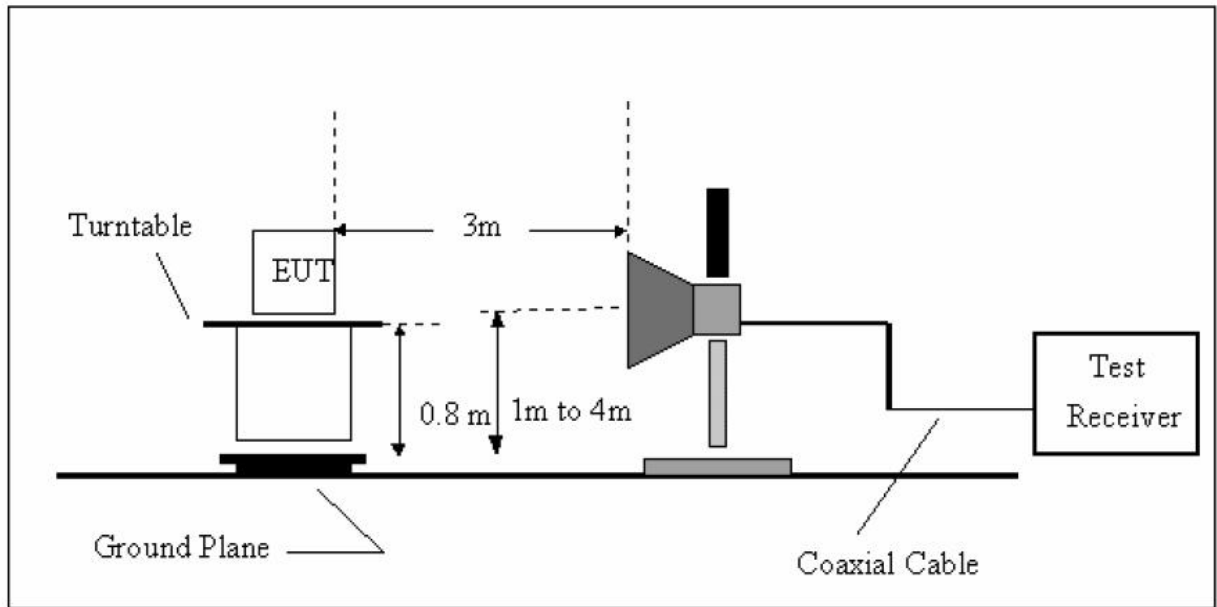
See the next page.



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground, The table was rotated 360 degrees to determine the position of the highest radiation
- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Quasi Peak Detector mode remeasured
- If Peak value comply with QP limit Below 1GHz. The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- For the actual test configuration, please see the test setup photo.

5.4 Test Equipment Setting For emission test.

9KHz~150KHz	RBW 200Hz	VBW1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHz~1GHz	RBW 120KHz	VBW 300KHz
Above 1GHz	RBW 1MHz	VBW 3MHz

5.5 Test Condition

Continual Transmitting in maximum power(The new battery be used during Test)

5.6 Test Result

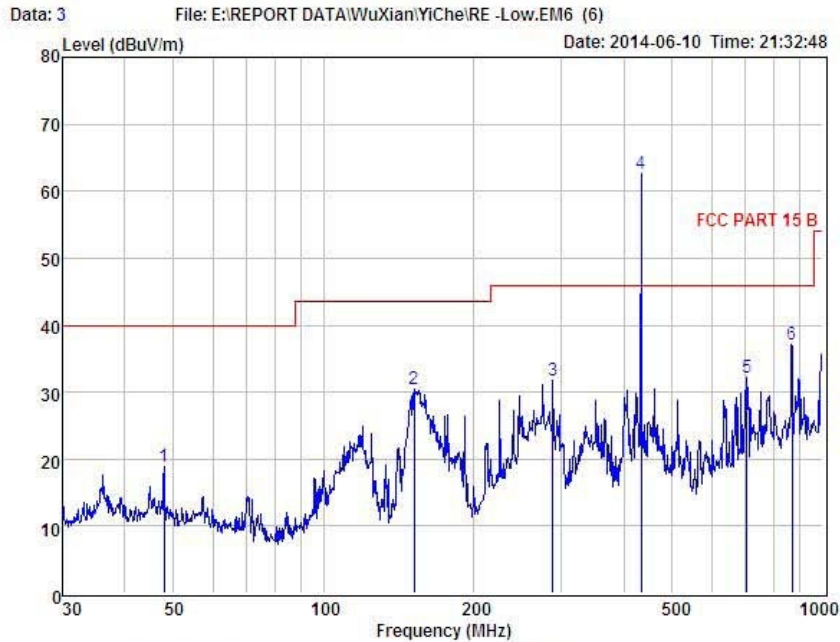
We have scanned the 10th harmonic from 9KHz to the EUT.
Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: **PASS**

Note: The amplitude of spurious emissions which are
attenuated by more than 20dB below the permissible value has no need to be reported
.



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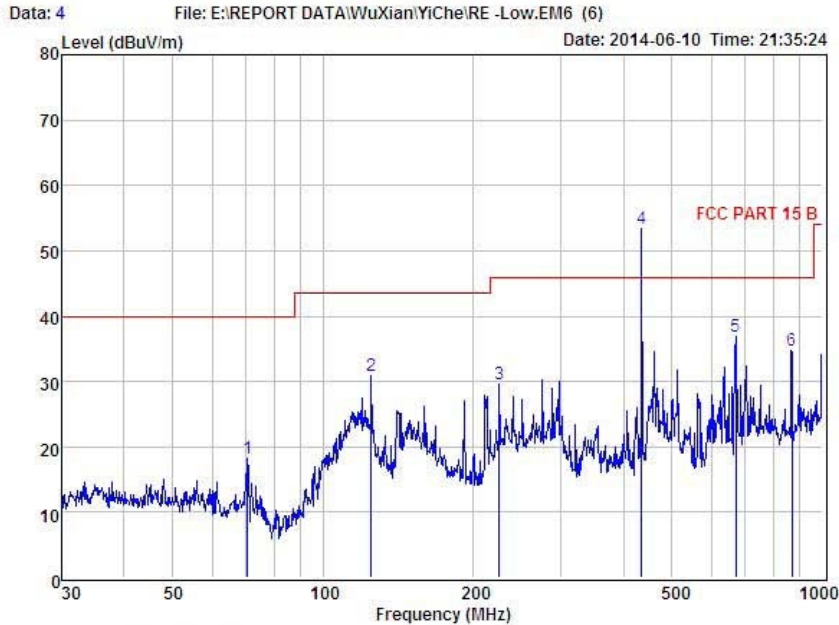
Condition : FCC PART 15 B 3m. POL: HORIZONTAL
EUT : Remote Generator
Model No : KD-900
Test Mode : Link Mode
Power : DC 5V From PC AC 120V/60Hz
Test Engineer : Store
Remark :
Temp : 25.2°C
Hum : 56%

Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	47.99	31.12	13.59	25.82	0.09	18.98	40.00	-21.02	QP
2	152.13	42.74	14.16	26.91	0.41	30.40	43.50	-13.10	QP
3	287.99	42.82	12.54	24.17	0.66	31.85	46.00	-14.15	QP
4	432.55	70.90	15.53	24.46	0.74	62.71			
5	704.23	37.23	19.72	25.74	0.98	32.19	46.00	-13.81	QP
6	867.84	40.11	21.23	25.67	1.47	37.14	46.00	-8.86	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss



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Condition : FCC PART 15 B 3m POL: VERTICAL
EUI : Remote Generator
Model No : KD-900
Test Mode : Link Mode
Power : DC 5V From PC AC 120V/60Hz
Test Engineer : Store
Remark :
Temp : 25.2°C
Hum : 56%

Item	Freq MHz	Read Level dBUV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBUV	Limit dBUV	Margin dBUV	Remark
1	70.58	34.27	10.51	26.77	0.17	18.18	40.00	-21.82	QP
2	125.01	44.95	12.46	26.88	0.28	30.81	43.50	-12.69	QP
3	225.31	44.79	10.98	26.77	0.55	29.55	46.00	-16.45	QP
4	434.07	61.70	15.58	24.47	0.59	53.40	46.00	-9.18	QP
5	670.49	42.10	19.35	25.77	1.14	36.82	46.00	-11.19	QP
6	867.84	37.78	21.23	25.67	1.47	34.81	46.00	-11.19	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

Notes: Above is Below 1GHz test data

Notes: Below is Above 1GHz test data

EUT		Remote Generator			Model Name		KD-900			
Temperature		25°C			Relative Humidity		56%			
Pressure		960hPa			Test voltage		DC 5V From PC AC 120V/60Hz			
Test Mode		TX								
Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
					Peak (dBuV/m)	AV (dBuV/m)				
1304.35	V	49.37	---	-10.84	38.53	---	74.00	54.00	-15.47	Peak
1736.47	V	48.60	---	-9.53	39.07	---	74.00	54.00	-14.93	Peak
2852.02	V	45.26	---	-5.87	39.39	---	74.00	54.00	-14.61	Peak
3715.28	V	44.52	---	-4.24	40.28	---	74.00	54.00	-13.72	Peak
N/A										

EUT	Remote Generator	Model Name	KD-900
Temperature	25°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From PC AC 120V/60Hz
Test Mode	TX		

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remarks
					Peak (dBuV/m)	AV (dBuV/m)				
1305.19	H	50.66	---	-10.84	39.82	---	74.00	54.00	-14.18	Peak
1735.77	H	48.27	---	-9.53	38.74	---	74.00	54.00	-15.26	Peak
3193.62	H	43.51	---	-5.52	37.99	---	74.00	54.00	-16.01	Peak
4013.08	H	42.04	---	-2.93	39.11	---	74.00	54.00	-14.89	Peak
N/A										

Notes: AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

Radiated Emissions Result of Inside band (433.92MHz)

EUT	Remote Generator	Model Name	KD-900
Temperature	25°C	Relative Humidity	56%
Pressure	960hPa	Test voltage	DC 5V From PC AC 120V/60Hz
Test Mode	TX	Antenna polarization	Horizontal/Vertical

Channel (433.92MHz)									
Fre. MHz	Plority H/V	Reading dBuV	Antenna Factor dB	Cable Loss dB	Amplifier Gain dB	Correct Factor dB	Measure Result dBuV/m	Limit dBuV/m	Margin dB
433.92	H	70.90 (PK)	15.58	0.67	27.47	-11.22	59.68	100.8 (PK)	-41.12
433.92	H	70.90 (PK)	15.58	0.67	27.47	-11.22	59.68	80.8 (AV)	-21.12
--	H	--	--	--	--	--	--	--	--
433.92	V	61.70 (PK)	15.58	0.67	27.47	-11.22	50.48	100.8 (PK)	-50.32
433.92	V	61.70 (PK)	15.58	0.67	27.47	-11.22	50.48	80.8 (AV)	-30.32
--	V	--	--	--	--	--	--	--	--

Notes: 1 --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Correct Factor=Cable Loss+Antenna Factor-Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

2 –Spectrum setting:

a. Peak setting 30MHz-1GHz, RBW=120KHz,VBW=300KHz.

b. AV setting 30MHz-1GHz, RBW=1MHz,VBW=10Hz.

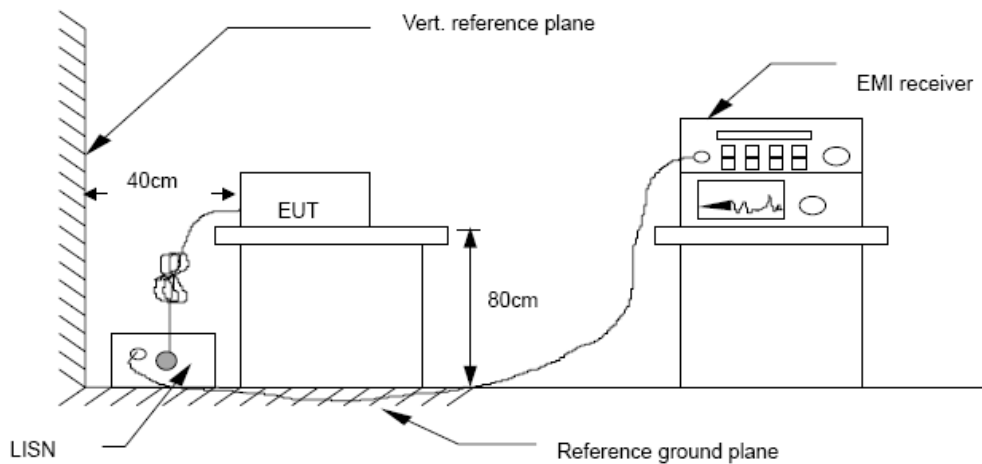
6 POWER LINE CONDUCTED EMISSION

6.1 Conducted Emission Limits(15.209)

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.
3. The limit decreases in line with the logarithm of the frequency in the rang of 0.15 to 0.50 MHz.

6.2 Test Setup



6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9 kHz.

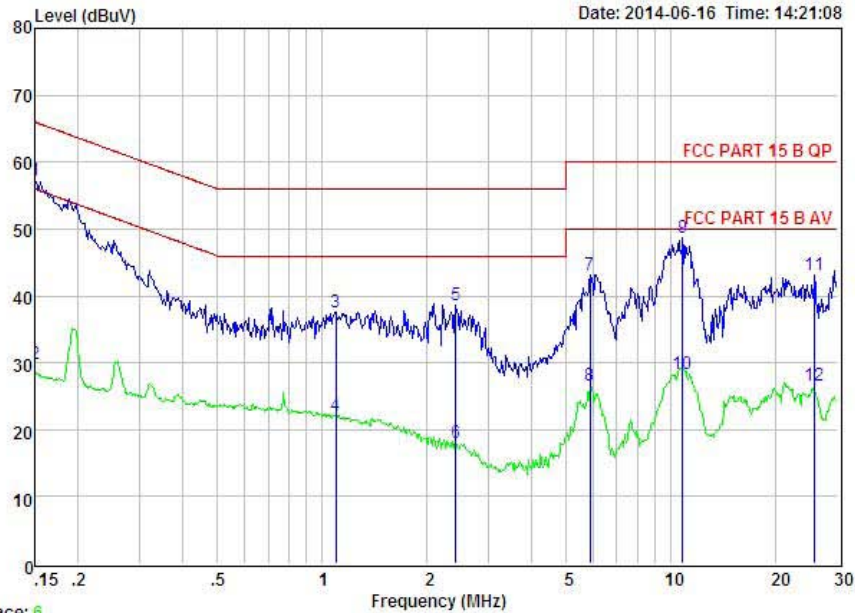
6.4 Test Results

Detailed Information Please refer to the following page.



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Data: 5 File: E:\TEST REPORT\WuXianYiChe\Conduction 0.15-30.EM6 (8) Date: 2014-06-16 Time: 14:21:08



Trace: 6

Condition : FCC PART 15 B QP POL: NEUTRAL Temp: 24 °C Hum: 56 %
 EUT : Remote Generator
 Model No : KD-900
 Test Mode : Link Mode
 Power : DC 5 From PC AC 120V/60Hz
 Test Engineer: Store
 Remark :

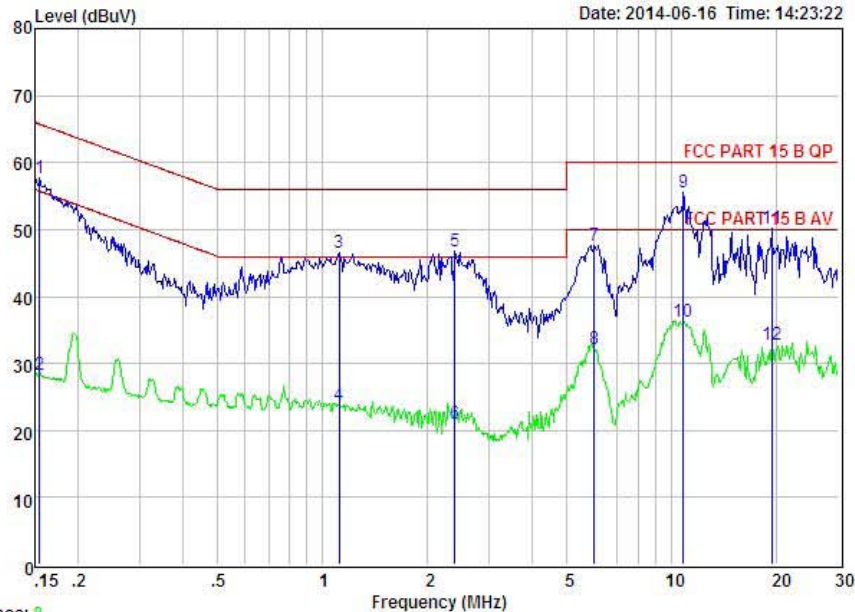
Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.150	47.39	0.03	-9.72	0.10	57.24	66.00	-8.76	QP
2	0.150	19.86	0.03	-9.72	0.10	29.71	56.00	-26.29	Average
3	1.094	27.76	0.04	-9.71	0.10	37.61	56.00	-18.39	QP
4	1.094	12.15	0.04	-9.71	0.10	22.00	46.00	-24.00	Average
5	2.422	28.74	0.06	-9.70	0.11	38.61	56.00	-17.39	QP
6	2.422	8.15	0.06	-9.70	0.11	18.02	46.00	-27.98	Average
7	5.867	33.26	0.11	-9.62	0.14	43.13	60.00	-16.87	QP
8	5.867	16.62	0.11	-9.62	0.14	26.49	50.00	-23.51	Average
9	10.790	38.65	0.22	-9.50	0.22	48.59	60.00	-11.41	QP
10	10.790	18.27	0.22	-9.50	0.22	28.21	50.00	-21.79	Average
11	25.864	32.53	0.46	-9.63	0.51	43.13	60.00	-16.87	QP
12	25.864	15.89	0.46	-9.63	0.51	26.49	50.00	-23.51	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss



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Website: <http://www.cessz.com> Email: Service@cessz.com

Data: 7 File: E:\TEST REPORT\WuXian\YiChe\Conduction 0.15-30.EM6 (8) Date: 2014-06-16 Time: 14:23:22



Trace: 8
Condition : FCC PART 15 B QP POL: LINE Temp: 24 °C Hum: 56 %
EUT : Remote Generator
Model No : KD-900
Test Mode : Link Mode
Power : DC 5 From PC AC 120V/60Hz
Test Engineer: Store
Remark :

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	0.155	47.84	0.03	-9.72	0.10	57.69	65.74	-8.05	QP
2	0.155	18.38	0.03	-9.72	0.10	28.23	55.74	-27.51	Average
3	1.117	36.59	0.04	-9.71	0.10	46.44	56.00	-9.56	QP
4	1.117	13.89	0.04	-9.71	0.10	23.74	46.00	-22.26	Average
5	2.396	36.99	0.06	-9.70	0.11	46.86	56.00	-9.14	QP
6	2.396	11.25	0.06	-9.70	0.11	21.12	46.00	-24.88	Average
7	5.993	37.83	0.11	-9.61	0.14	47.69	60.00	-12.31	QP
8	5.993	22.25	0.11	-9.61	0.14	32.11	50.00	-17.89	Average
9	10.790	45.52	0.22	-9.50	0.22	55.46	60.00	-4.54	QP
10	10.790	26.20	0.22	-9.50	0.22	36.14	50.00	-13.86	Average
11	19.326	40.18	0.30	-9.47	0.34	50.29	60.00	-9.71	QP
12	19.326	22.80	0.30	-9.47	0.34	32.91	50.00	-17.09	Average

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

7 Occupied bandwidth

7.1 Test limit

Please refer section 15.231

According to §15.231(C), The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.

7.2 Method of measurement

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver RBW set 30KHz, VBW set 30KHz, Sweep time set auto.

7.3 Test Setup

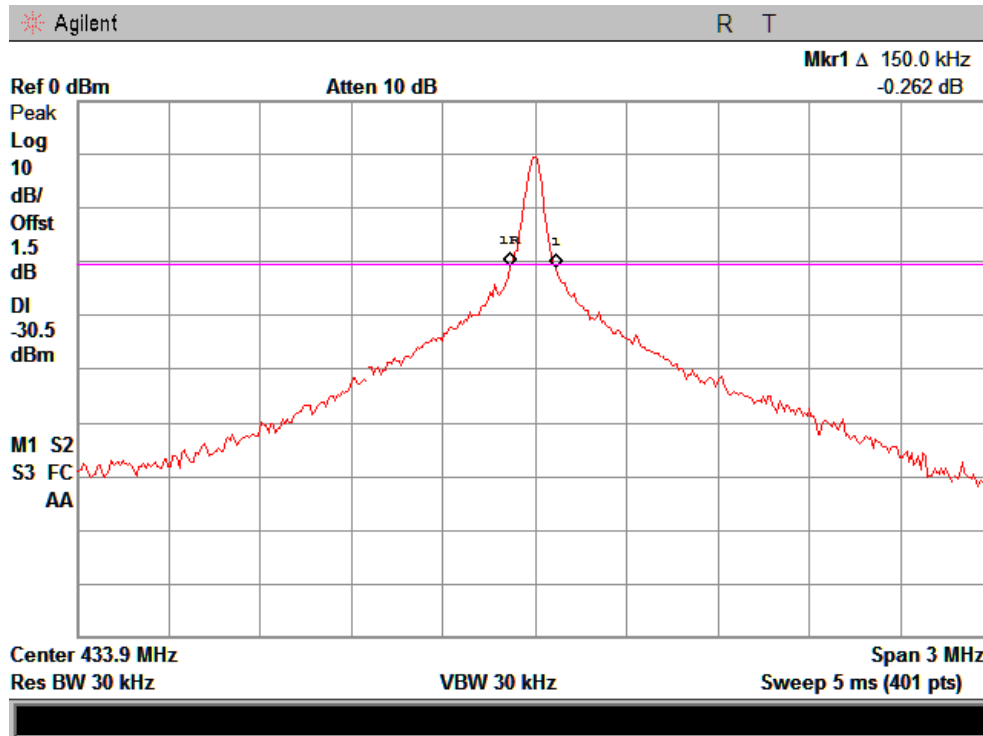


7.4 Test Results

PASS.

Detailed information please see the following page.

Frequency	Test Result	Limit	Result
433.92MHz	150.0KHz	<1.08MHz	Pass



8 Transmission time

8.1 Test limit

Please refer section 15.231

According to §15.231(a)(1), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

According to §15.231(a)(2), A transmitter activated automatically shall cease transmission within 5 seconds after activation.

8.2 Method of measurement

7.2.1. Place the EUT on the table and set it in transmitting mode.

7.2.2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

7.2.3. Set spectrum analyzer Center=433.9MHz, Span = 0MHz, Sweep = 5s.

7.2.4. Set the spectrum analyzer as RBW, VBW=1MHz,

7.2.5. Max hold, view and count how many channel in the band.

8.3 Test Setup



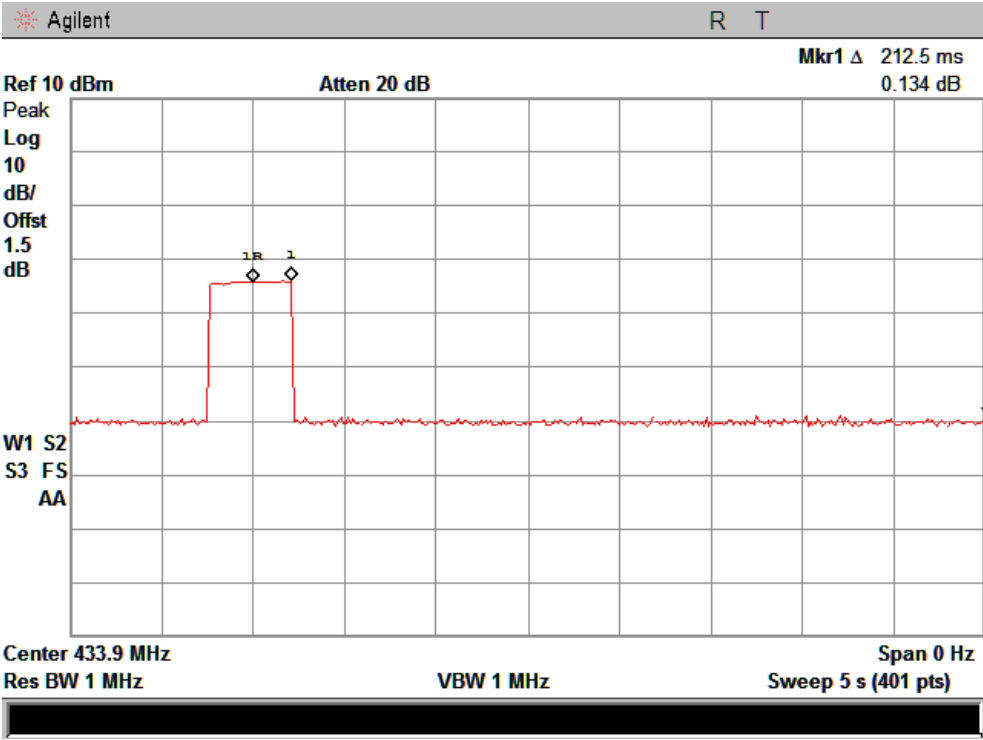
8.4 Test Results

PASS.

Detailed information please see the following page.

Frequency	Test Result	Limit	Result
433.92MHz	212.5ms	< 5s	Pass

After Release the button, EUT emission Continue 212.5ms



9 Band Edge Check

9.1 Test limit

Please refer section 15.231 and section 15.205.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

9.2 Test Procedure

- 11.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- 11.2.2 Turning to Low and High frequency, then reduced 50dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency.
- 11.2.3 Check the spurious emissions out of band.
- 11.2.4 RBW, VBW Setting, please see the following test plot.

9.3 Test Setup

Same to 5.2

9.4 Test Result

The Restricted bands is 399.9-410MHz and 608-614MHz, The EUT operation frequency is 433.92MHz, The test is not applicable.

10 Antenna Requirement

10.1 Standard Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

10.2 Antenna Connected Construction

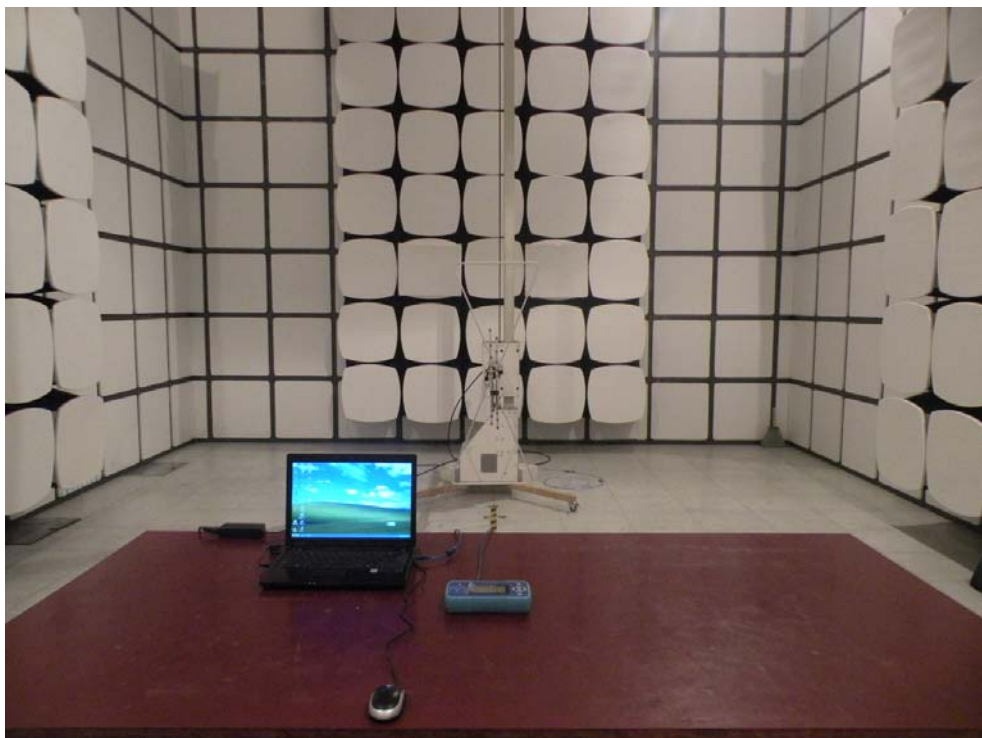
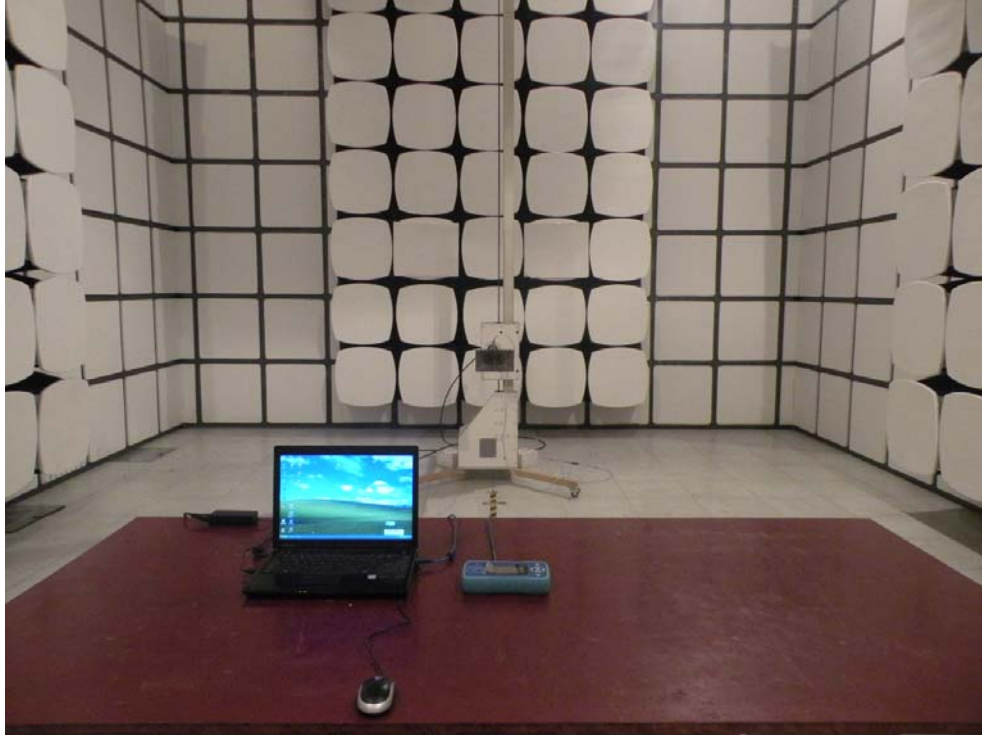
It is PCB Antenna ,the directional gains of antenna used for transmitting is 0 dBi, is permanent attachment and no consideration of replacement. Please see EUT photo for details.

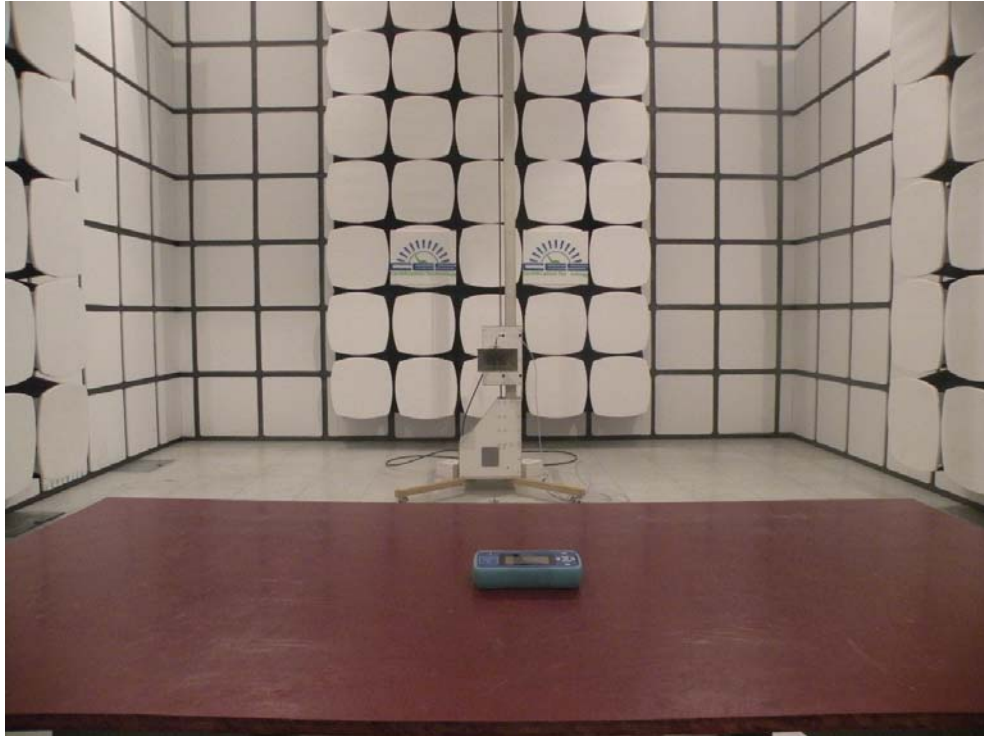
10.3 Result

The EUT antenna is PCB antenna. It comply with the standard requirement.

11 Photographs of Test Setup

Photographs-Radiated Emission Test Setup in Chamber





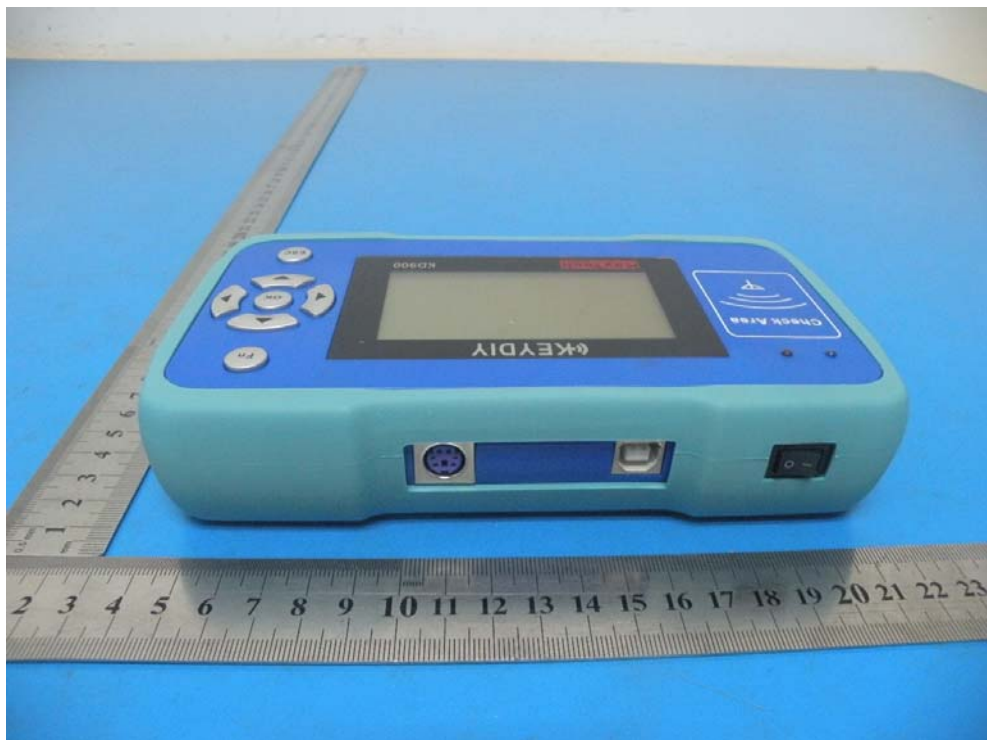
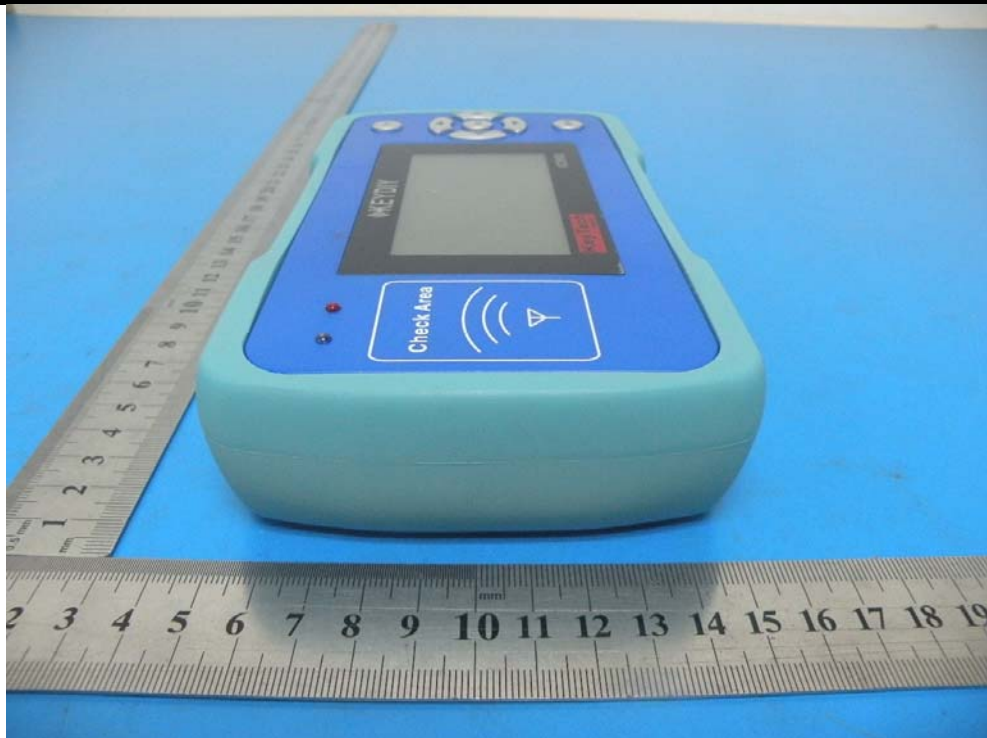
Photos of Power Line Conducted Emission Test

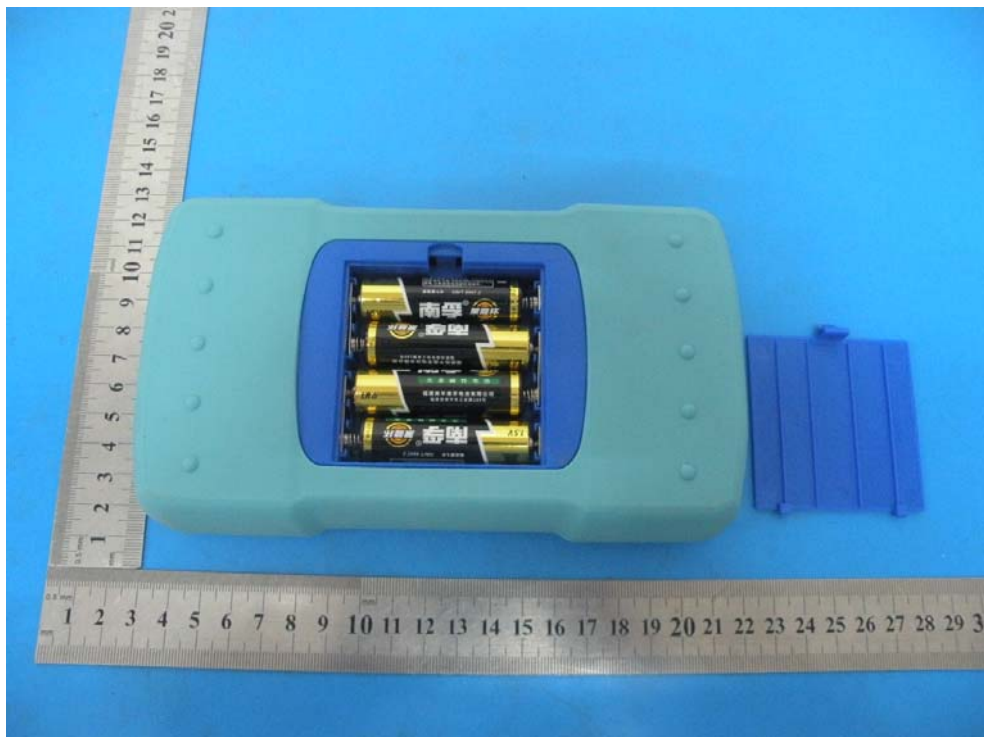
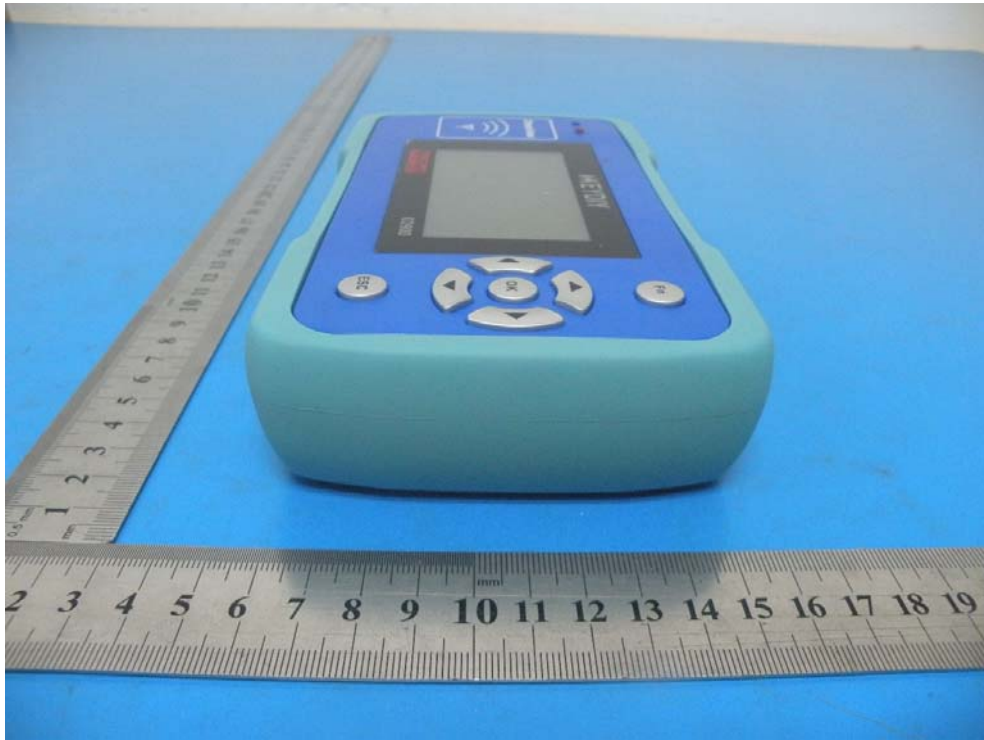


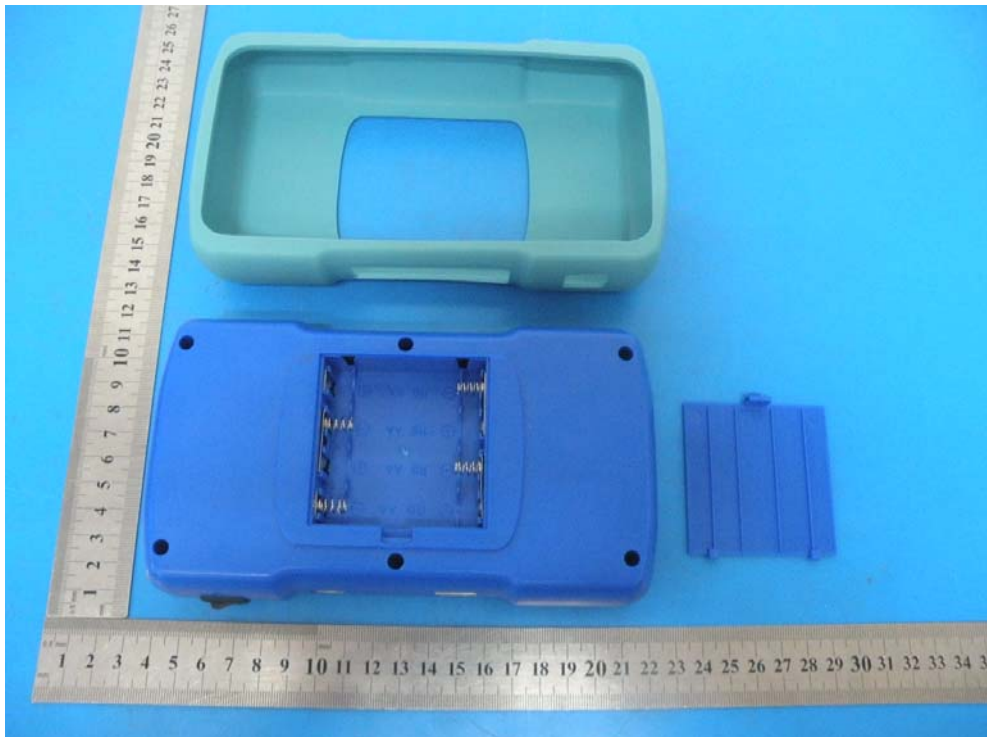
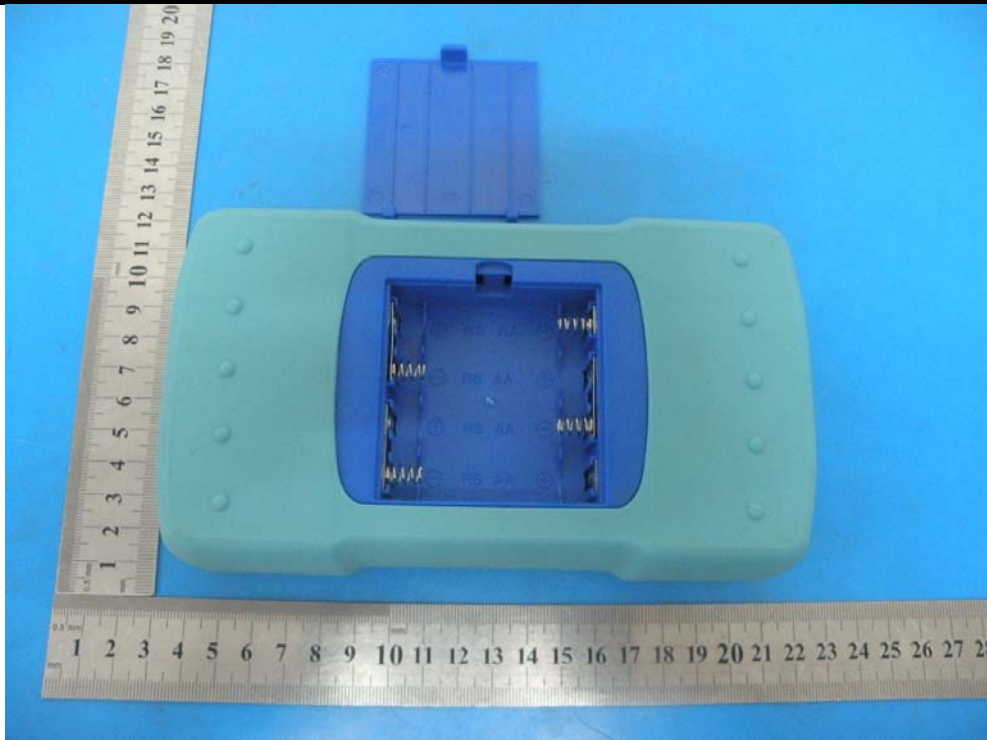
12 Photographs of EUT

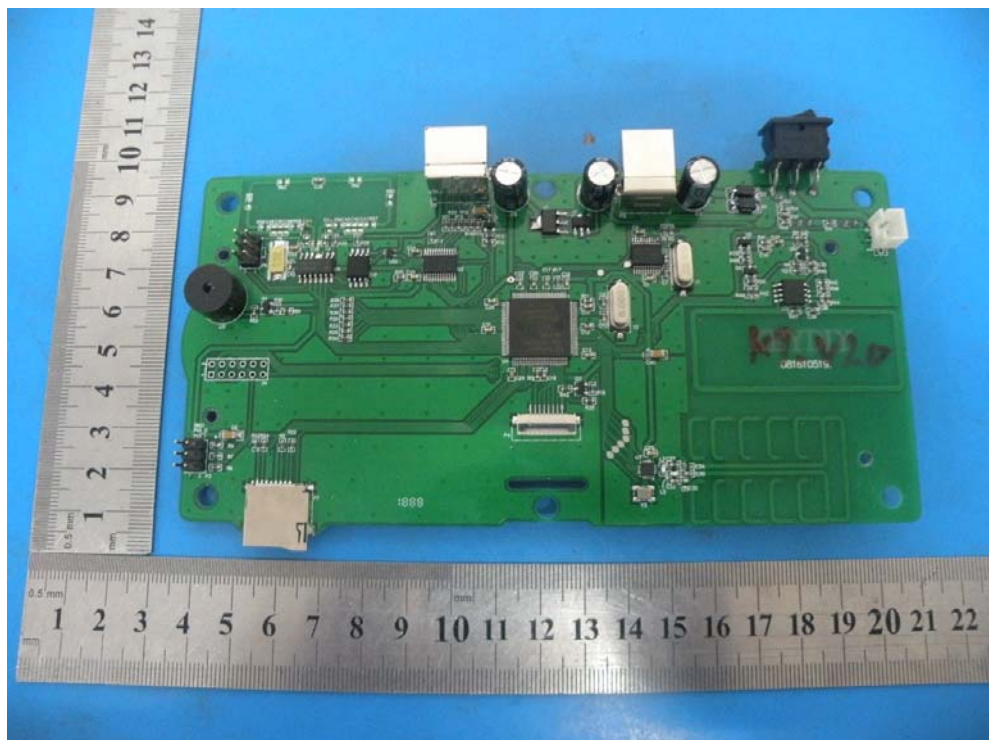
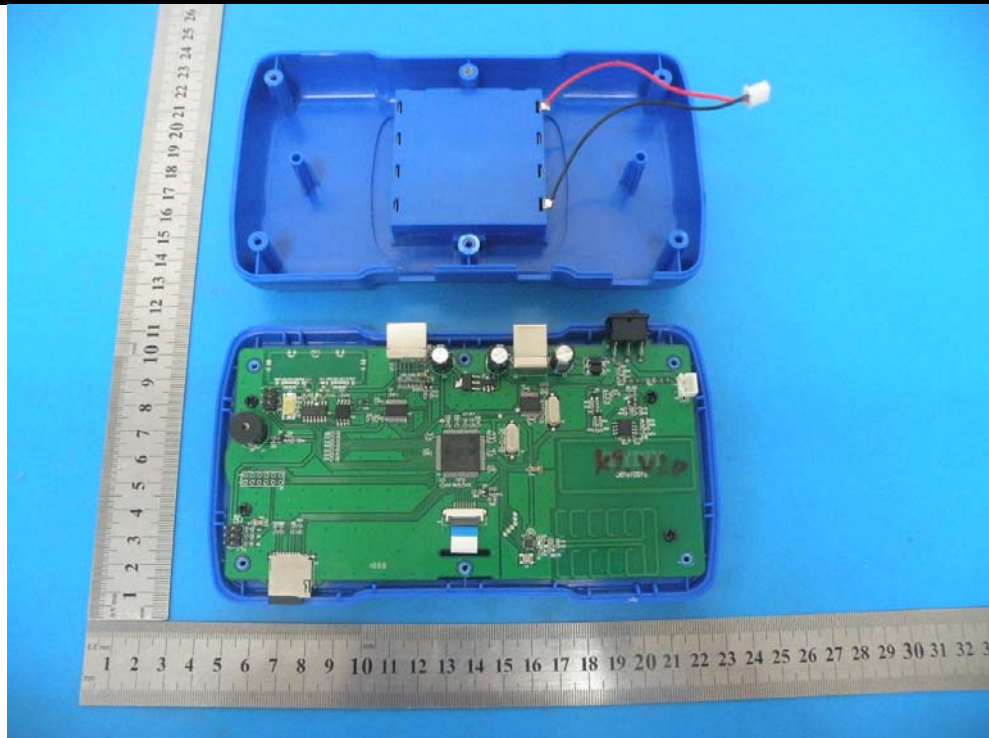


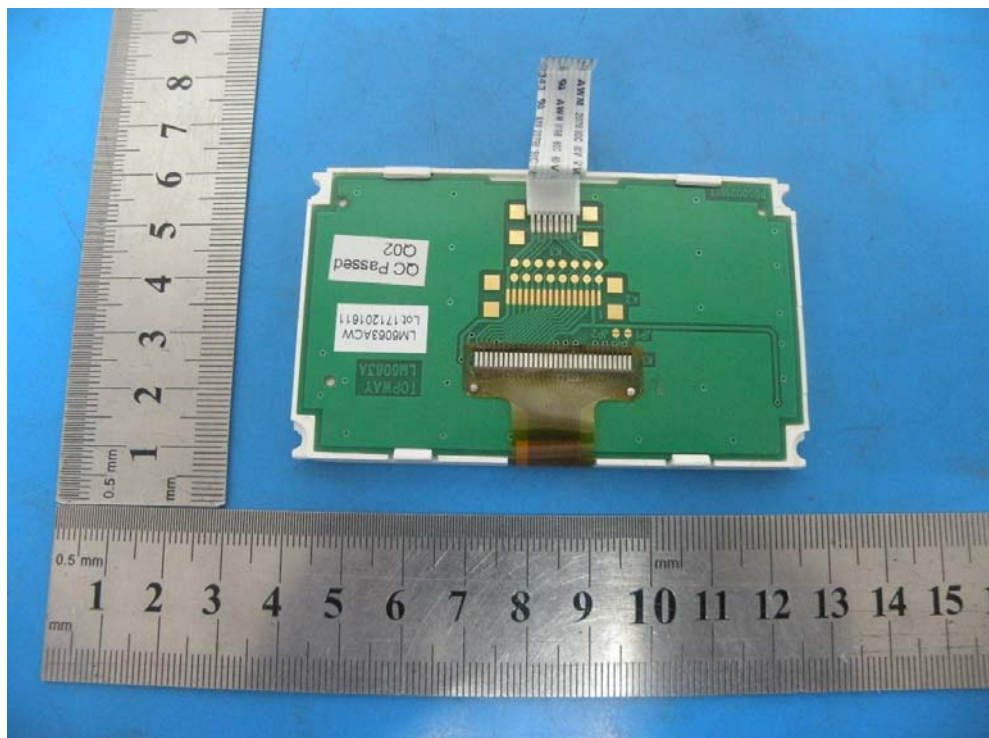
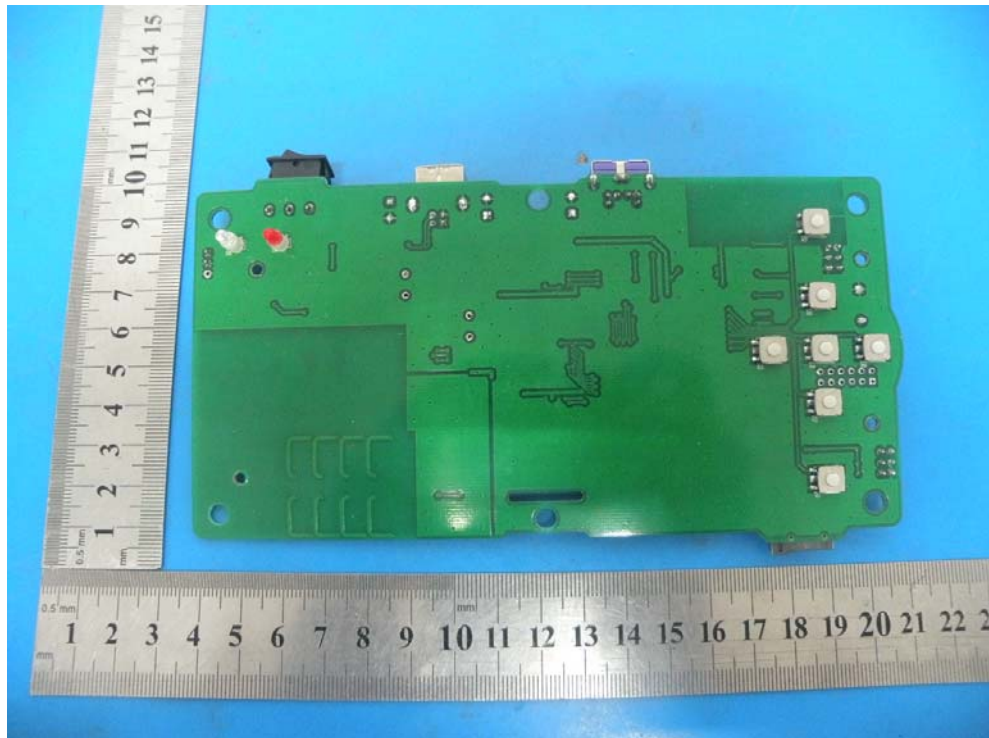


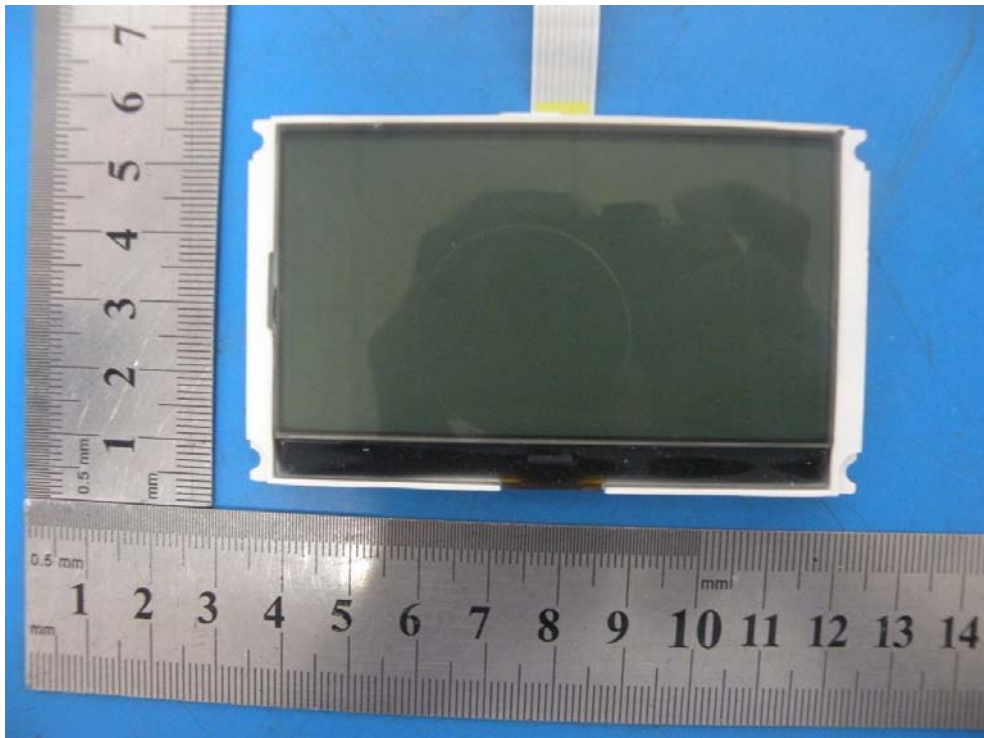


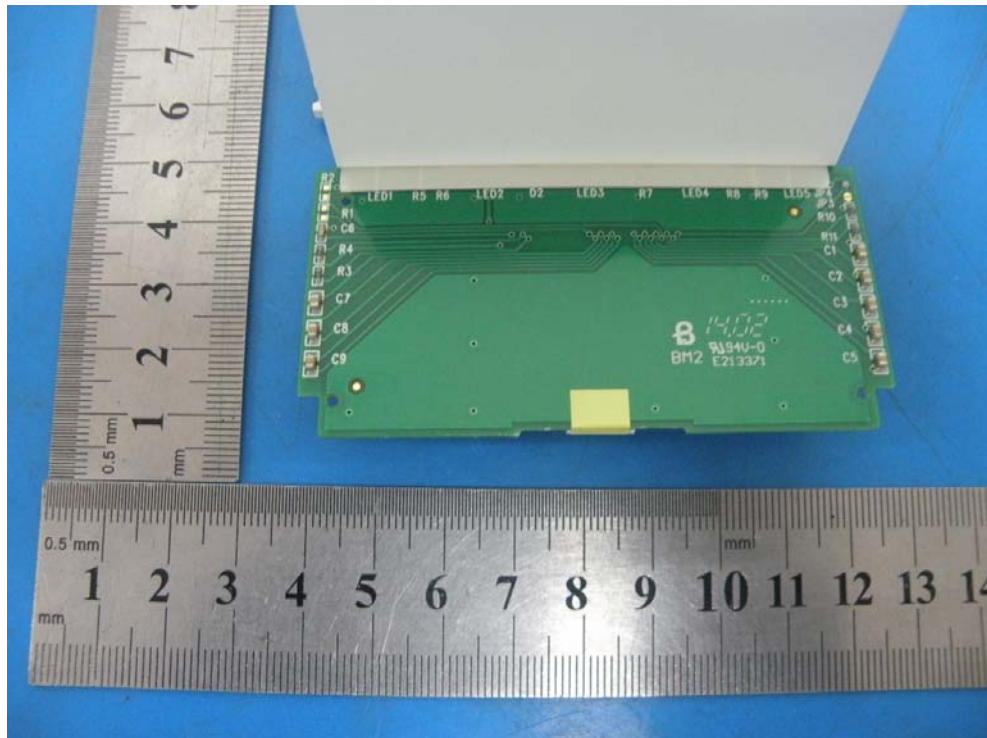












-----END OF THE REPORT-----