

APPLICATION CERTIFICATION FCC Part 15B
On Behalf of
Shenzhen Aoweishi Technology Co.,Ltd

Black Pearl
Model No.: RC801

FCC ID: 2ACIM-RC801

Prepared for : Shenzhen Aoweishi Technology Co.,Ltd
Address : Floor 6, Block 5, MengLiYuan Industrial Park, YouSong
Road, LongHua New District, ShenZhen, GuangDong,
518000, China

Prepared by : ACCURATE TECHNOLOGY CO. LTD
Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

Tel: (0755) 26503290
Fax: (0755) 26503396

Report Number : ATE20140857
Date of Test : May 23-30,2014
Date of Report : Jun 03,2014

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Test Report Certification

Applicant : Shenzhen Aoweishi Technology Co.,Ltd
Manufacturer : Shenzhen Aoweishi Technology Co.,Ltd
EUT Description : Black Pearl
(A) MODEL NO.: RC801
(B) SERIAL NO.: N/A
(C) POWER SUPPLY: AC 120V (Adapter)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : May 23-30,2014

Prepared by :



(Eric, Engineer)

Approved & Authorized Signer :



(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	Black Pearl
Model Number	:	RC801
Power Supply	:	AC 120V (Adapter)
Applicant	:	Shenzhen Aoweishi Technology Co.,Ltd
Address	:	Floor 6, Block 5, MengLiYuan Industrial Park, YouSong Road, LongHua New District, ShenZhen, GuangDong, 518000, China
Manufacturer	:	Shenzhen Aoweishi Technology Co.,Ltd
Address	:	Floor 6, Block 5, MengLiYuan Industrial Park, YouSong Road, LongHua New District, ShenZhen, GuangDong, 518000, China
Date of sample received	:	May 23, 2014
Date of Test	:	May 23-30,2014

1.2. Accessory and Auxiliary Equipment

PC	Manufacturer: LENOVO M/N: E440 S/N: 20C5S00500
Adapter	Manufacturer: Waiberlon M/N:HLV1221TA Input: AC 110-240V 50/60Hz Output: DC 12V 1750mA

1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

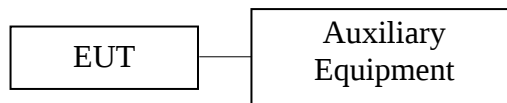
Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2014	Jan. 10, 2015
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2014	Jan. 10, 2015
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	Jan. 10, 2015
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2014	Jan. 10, 2015
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	Jan. 14, 2015
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2014	Jan. 14, 2015
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2014	Jan. 10, 2015
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2014	Jan. 10, 2015

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used: 1) HDMI+AV IN
2) 5.8 Receiver

3.2.Configuration and peripherals



(EUT: Black Pearl)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	Compliant
Section 15.109	Radiated Emission Test	Compliant

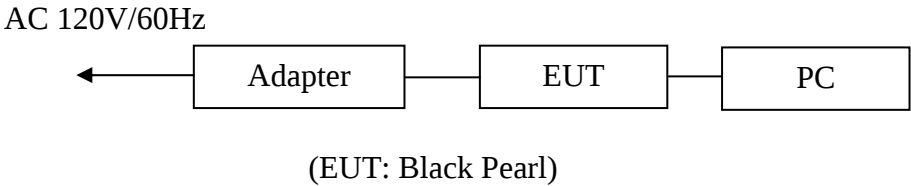
5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

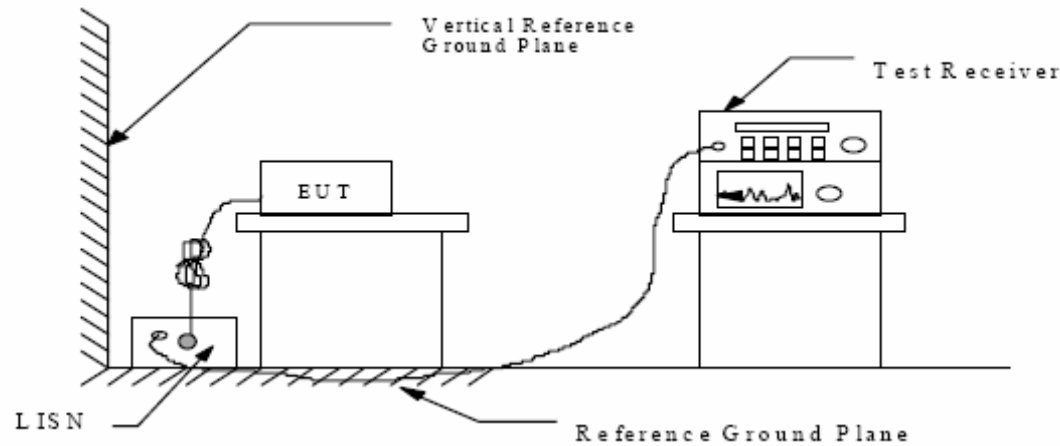
5.1. Block Diagram of Test Setup

5.1.1. Block diagram of connection between the EUT and simulators

5.1.1.1. For HDMI+AV IN



5.1.2. Shielding Room Test Setup Diagram



(EUT: Black Pearl)

5.2.The Emission Limit

5.2.1.Conducted Emission Measurement Limits According to Section 15.107(a)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

5.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.3.1.Black Pearl (EUT)

Model Number : RC801
 Serial Number : N/A
 Manufacturer : Shenzhen Aoweishi Technology Co.,Ltd

5.4.Operating Condition of EUT

5.4.1.Setup the EUT and simulator as shown as Section 5.1.

5.4.2.Turn on the power of all equipment.

5.4.3.Let the EUT work in modes (HDMI+AV IN, 5.8 Receiver) and measure it.

5.5.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: 2009 on Conducted Emission Measurement.

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

The frequency range from 150kHz to 30MHz is checked.

5.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode : HDMI+AV IN (Adapter port)

MEASUREMENT RESULT: "RY0528-1_fin"

5/28/2014 5:01PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.179518	39.10	10.5	65	25.4	QP	L1	GND
0.462379	38.00	10.7	57	18.6	QP	L1	GND
21.433657	36.00	11.4	60	24.0	QP	L1	GND

MEASUREMENT RESULT: "RY0528-1_fin2"

5/28/2014 5:01PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.179518	36.20	10.5	55	18.3	AV	L1	GND
0.464229	29.80	10.7	47	16.8	AV	L1	GND
21.605469	31.20	11.4	50	18.8	AV	L1	GND

MEASUREMENT RESULT: "RY0528-2_fin"

5/28/2014 5:04PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.156109	39.80	10.5	66	25.9	QP	N	GND
0.460537	38.20	10.7	57	18.5	QP	N	GND
21.348264	35.70	11.4	60	24.3	QP	N	GND

MEASUREMENT RESULT: "RY0528-2_fin2"

5/28/2014 5:04PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.156734	36.80	10.5	56	18.8	AV	N	GND
0.467950	31.30	10.7	47	15.3	AV	N	GND
21.605469	31.00	11.4	50	19.0	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Test mode : HDMI+AV IN (PC port)

MEASUREMENT RESULT: "RY0528-5_fin"

5/28/2014 5:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153636	26.90	10.5	66	38.9	QP	L1	GND
0.455055	37.20	10.7	57	19.6	QP	L1	GND
1.108361	24.70	10.9	56	31.3	QP	L1	GND

MEASUREMENT RESULT: "RY0528-5_fin2"

5/28/2014 5:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.330648	14.30	10.6	49	35.1	AV	L1	GND
0.455055	23.60	10.7	47	23.2	AV	L1	GND
1.112795	10.50	10.9	46	35.5	AV	L1	GND

MEASUREMENT RESULT: "RY0528-6_fin"

5/28/2014 5:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.151807	26.80	10.5	66	39.1	QP	N	GND
0.456875	37.50	10.7	57	19.2	QP	N	GND
1.108361	24.70	10.9	56	31.3	QP	N	GND

MEASUREMENT RESULT: "RY0528-6_fin2"

5/28/2014 5:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.353867	14.70	10.6	49	34.2	AV	N	GND
0.456875	24.30	10.7	47	22.4	AV	N	GND
1.103946	11.00	10.9	46	35.0	AV	N	GND

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

Test mode : 5.8 Receiver

MEASUREMENT RESULT: "RY0528-3_fin"

5/28/2014 5:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153024	40.00	10.5	66	25.8	QP	N	GND
0.458702	38.00	10.7	57	18.7	QP	N	GND
21.519392	35.70	11.4	60	24.3	QP	N	GND

MEASUREMENT RESULT: "RY0528-3_fin2"

5/28/2014 5:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.157990	36.00	10.5	56	19.6	AV	N	GND
0.446062	29.80	10.7	47	17.1	AV	N	GND
21.348264	31.00	11.4	50	19.0	AV	N	GND

MEASUREMENT RESULT: "RY0528-4_fin"

5/28/2014 5:11PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153024	45.40	10.5	66	20.4	QP	L1	GND
0.458702	39.90	10.7	57	16.8	QP	L1	GND
2.754025	36.60	11.0	56	19.4	QP	L1	GND

MEASUREMENT RESULT: "RY0528-4_fin2"

5/28/2014 5:11PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154251	36.50	10.5	56	19.3	AV	L1	GND
0.466086	31.50	10.7	47	15.1	AV	L1	GND
2.820786	30.00	11.0	46	16.0	AV	L1	GND

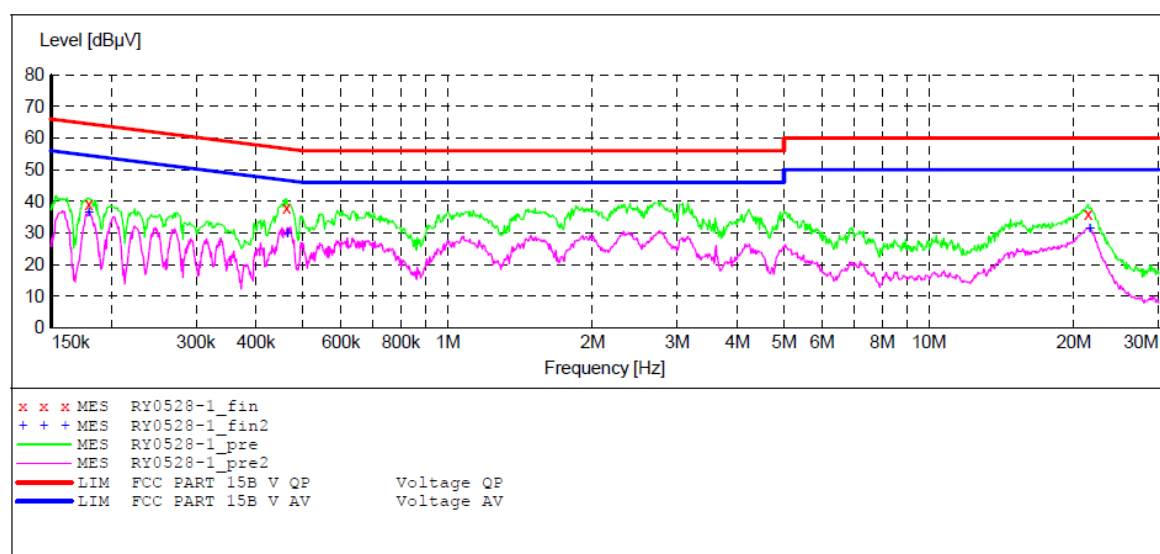
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Black Pearl M/N:RC801
 Manufacturer: Aoweishi
 Operating Condition: HDMI+AV IN
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment: Adapter port
 Report No.:ATE20140857

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY0528-1_fin"**

5/28/2014 5:01PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.179518	39.10	10.5	65	25.4	QP	L1	GND
0.462379	38.00	10.7	57	18.6	QP	L1	GND
21.433657	36.00	11.4	60	24.0	QP	L1	GND

MEASUREMENT RESULT: "RY0528-1_fin2"

5/28/2014 5:01PM

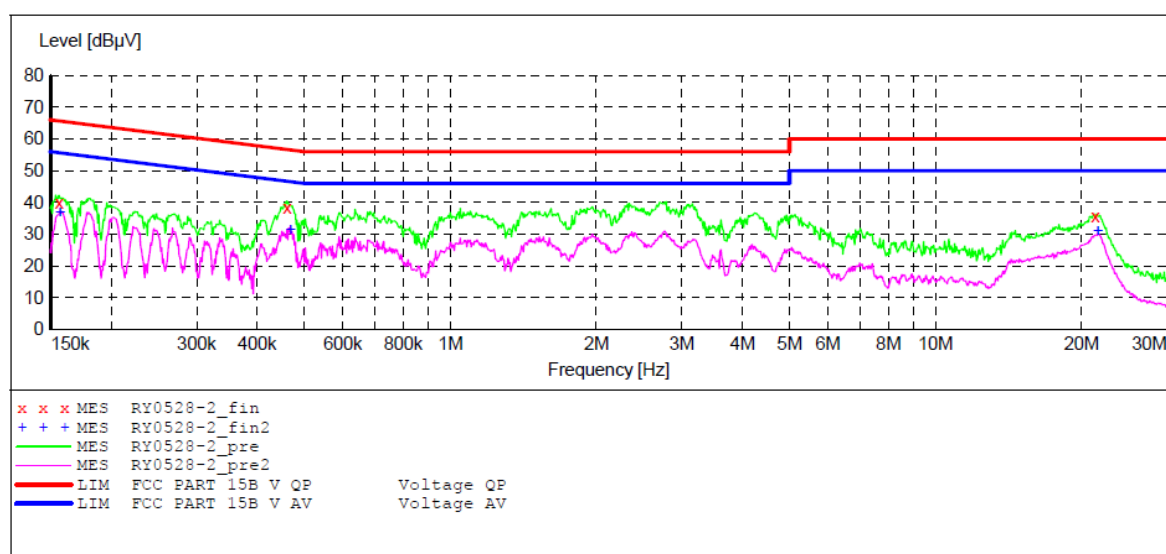
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.179518	36.20	10.5	55	18.3	AV	L1	GND
0.464229	29.80	10.7	47	16.8	AV	L1	GND
21.605469	31.20	11.4	50	18.8	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Black Pearl M/N:RC801
 Manufacturer: Aoweishi
 Operating Condition: HDMI+AV IN
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment: Adapter port
 Report No.: ATE20140857

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY0528-2_fin"**

5/28/2014 5:04PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.156109	39.80	10.5	66	25.9	QP	N	GND
0.460537	38.20	10.7	57	18.5	QP	N	GND
21.348264	35.70	11.4	60	24.3	QP	N	GND

MEASUREMENT RESULT: "RY0528-2_fin2"

5/28/2014 5:04PM

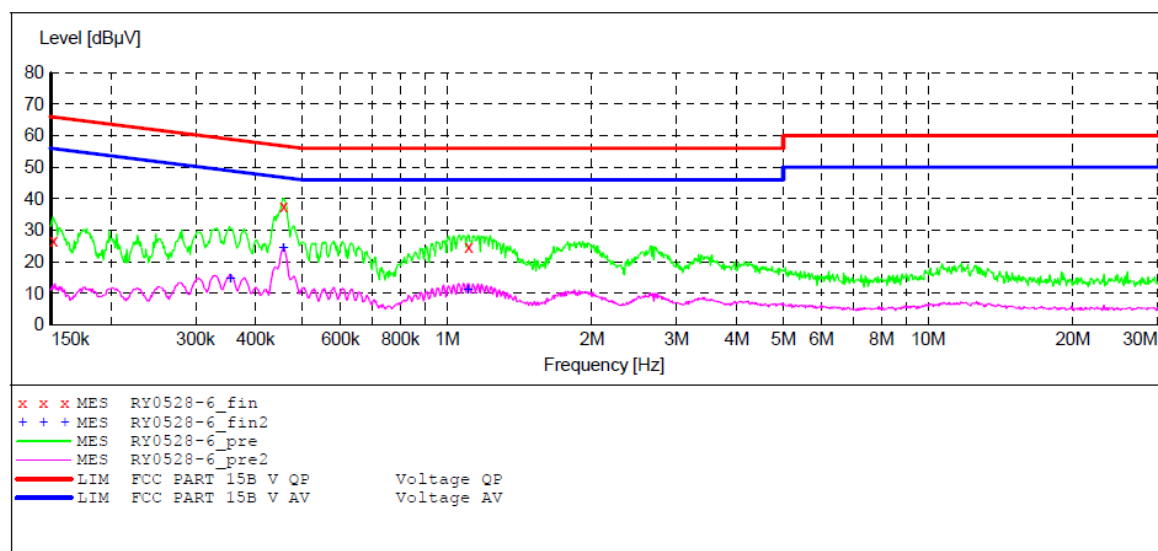
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.156734	36.80	10.5	56	18.8	AV	N	GND
0.467950	31.30	10.7	47	15.3	AV	N	GND
21.605469	31.00	11.4	50	19.0	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Black Pearl M/N:RC801
 Manufacturer: Aoweishi
 Operating Condition: HDMI+AV IN
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment: PC port
 Report No.: ATE20140857

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY0528-6_fin"**

5/28/2014 5:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.151807	26.80	10.5	66	39.1	QP	N	GND
0.456875	37.50	10.7	57	19.2	QP	N	GND
1.108361	24.70	10.9	56	31.3	QP	N	GND

MEASUREMENT RESULT: "RY0528-6_fin2"

5/28/2014 5:20PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.353867	14.70	10.6	49	34.2	AV	N	GND
0.456875	24.30	10.7	47	22.4	AV	N	GND
1.103946	11.00	10.9	46	35.0	AV	N	GND

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

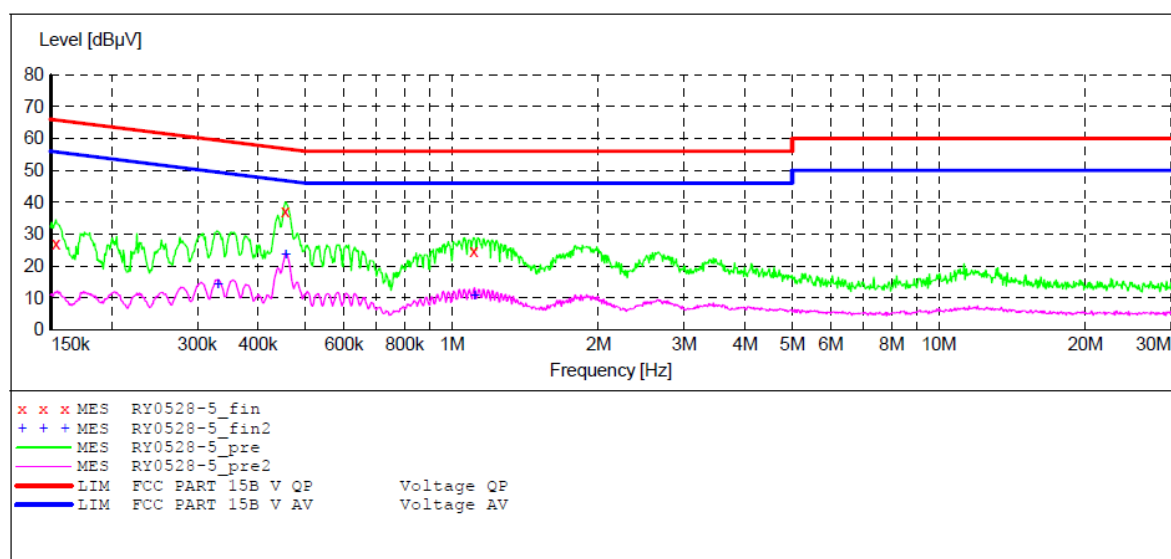
EUT: Black Pearl M/N:RC801
 Manufacturer: Aoweishi
 Operating Condition: HDMI+AV IN
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment: PC Port
 Report No.: ATE20140857

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

 Average

**MEASUREMENT RESULT: "RY0528-5_fin"**

5/28/2014 5:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153636	26.90	10.5	66	38.9	QP	L1	GND
0.455055	37.20	10.7	57	19.6	QP	L1	GND
1.108361	24.70	10.9	56	31.3	QP	L1	GND

MEASUREMENT RESULT: "RY0528-5_fin2"

5/28/2014 5:15PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.330648	14.30	10.6	49	35.1	AV	L1	GND
0.455055	23.60	10.7	47	23.2	AV	L1	GND
1.112795	10.50	10.9	46	35.5	AV	L1	GND

ACCURATE TECHNOLOGY CO., LTD

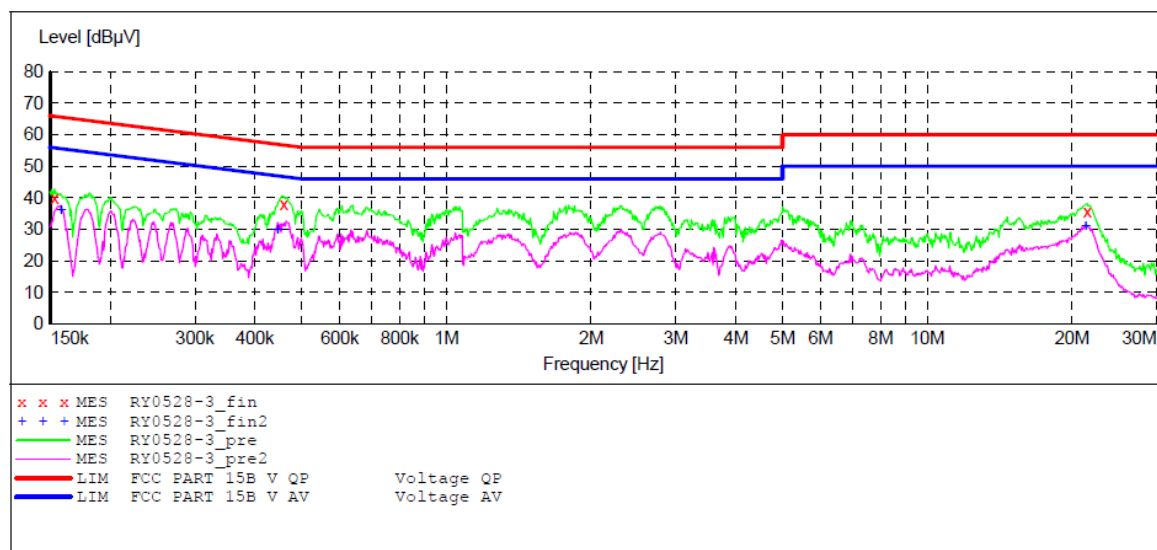
CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Black Pearl M/N:RC801
 Manufacturer: Aoweishi
 Operating Condition: 5.8 Receiver
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment:

Report No.: ATE20140857

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average



MEASUREMENT RESULT: "RY0528-3_fin"

5/28/2014 5:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153024	40.00	10.5	66	25.8	QP	N	GND
0.458702	38.00	10.7	57	18.7	QP	N	GND
21.519392	35.70	11.4	60	24.3	QP	N	GND

MEASUREMENT RESULT: "RY0528-3_fin2"

5/28/2014 5:08PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.157990	36.00	10.5	56	19.6	AV	N	GND
0.446062	29.80	10.7	47	17.1	AV	N	GND
21.348264	31.00	11.4	50	19.0	AV	N	GND

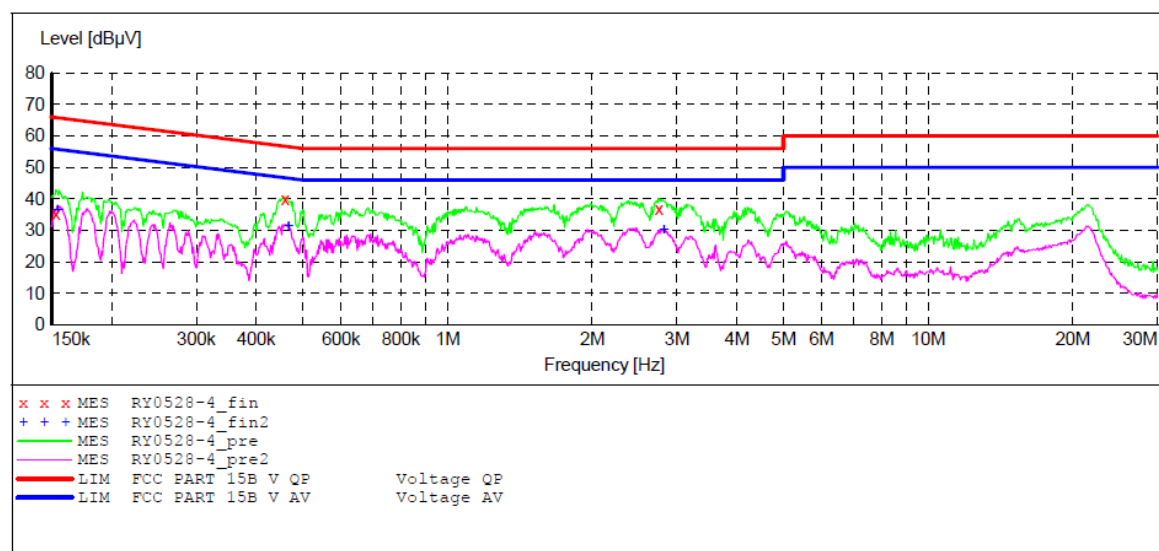
ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Black Pearl M/N:RC801
 Manufacturer: Aoweishi
 Operating Condition: 5.8 Receiver
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment:

Report No.: ATE20140857

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY0528-4_fin"**

5/28/2014 5:11PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.153024	45.40	10.5	66	20.4	QP	L1	GND
0.458702	39.90	10.7	57	16.8	QP	L1	GND
2.754025	36.60	11.0	56	19.4	QP	L1	GND

MEASUREMENT RESULT: "RY0528-4_fin2"

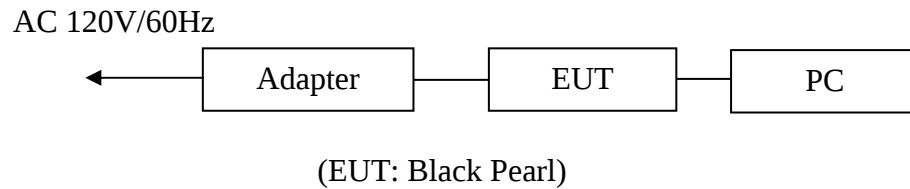
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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.154251	36.50	10.5	56	19.3	AV	L1	GND
0.466086	31.50	10.7	47	15.1	AV	L1	GND
2.820786	30.00	11.0	46	16.0	AV	L1	GND

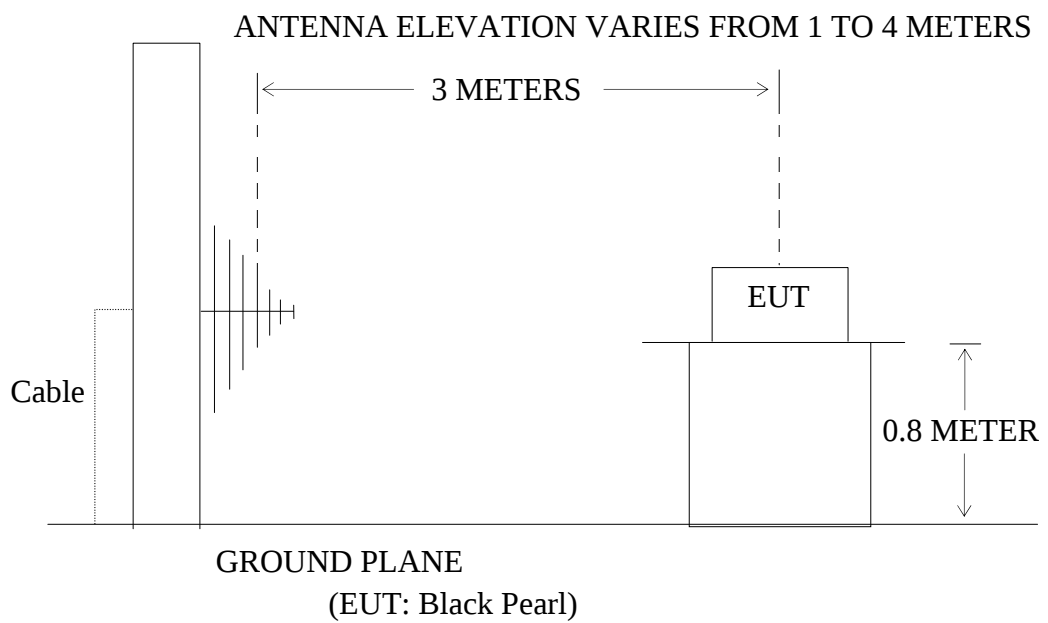
6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators



6.1.2. Semi-Anechoic Chamber Test Setup Diagram



6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dBμV/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

6.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1.Black Pearl (EUT)

Model Number : RC801
 Serial Number : N/A
 Manufacturer : Shenzhen Aoweishi Technology Co.,Ltd

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3. Let the EUT work in (HDMI+AV IN,5.8 Receiver) mode measures it.

6.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120kHz in 30-1000MHz

The frequency range from 30MHz to 1000MHz is checked.

The highest frequency of the internal sources of the EUT is 480MHz higher than 108MHz; The measurement shall be made above 1GHz.

6.6.The Emission Measurement Result

PASS.

Below 1G(HDMI+AV IN)								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	189.0743	59.69	-21.04	38.65	43.50	-4.85	QP
	2	236.6447	51.02	-19.82	31.20	46.00	-14.80	QP
	3	331.3546	46.35	-16.92	29.43	46.00	-16.57	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	236.6447	45.02	-19.82	25.20	46.00	-20.80	QP
	2	426.5210	44.57	-15.27	29.30	46.00	-16.70	QP
	3	568.6127	43.49	-12.40	31.09	46.00	-14.91	QP
Above 1G(HDMI+AV IN)								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	1515.413	45.19	-11.34	33.85	74.00	-40.15	peak
	2	1666.376	45.01	-10.53	34.48	74.00	-39.52	peak
	3	4059.890	46.05	-1.18	44.87	74.00	-29.13	peak
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	3075.394	45.76	-4.68	41.08	74.00	-32.92	peak
	2	3227.832	45.37	-4.25	41.12	74.00	-32.88	peak
	3	3530.356	47.23	-2.89	44.34	74.00	-29.66	peak

Below 1G(5.8 Receiver)								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBUV/m)	Factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
	1	141.8262	50.56	-23.56	27.00	43.50	-16.50	QP
	2	189.0743	59.98	-21.04	38.94	43.50	-4.56	QP
	3	473.8347	49.31	-14.22	35.09	46.00	-10.91	QP
Vertical	No.	Freq. (MHz)	Reading (dBUV/m)	Factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
	1	189.0743	49.86	-21.04	28.82	43.50	-14.68	QP
	2	283.9791	48.79	-18.19	30.60	46.00	-15.40	QP
	3	426.5210	44.39	-15.27	29.12	46.00	-16.88	QP
Above 1G(5.8 Receiver)								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBUV/m)	Factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
	1	2742.200	45.29	-6.19	39.10	74.00	-34.90	peak
	2	2951.232	45.12	-5.56	39.56	74.00	-34.44	peak
	3	3505.144	45.54	-2.98	42.56	74.00	-31.44	peak
Vertical	No.	Freq. (MHz)	Reading (dBUV/m)	Factor (dB)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
	1	1842.254	44.53	-9.58	34.95	74.00	-39.05	peak
	2	3581.325	45.67	-2.69	42.98	74.00	-31.02	peak
	3	4926.683	46.53	1.18	47.71	74.00	-26.29	peak

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$

Where Corrected Factor = Antenna Factor + Cable Loss + High Pass Filter Loss – Amplifier Gain

3. The spectral diagrams are attached as below display the measurement of peak values

4. The average measurement was not performed when peak measured data under the limit of average detection.



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #77

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: HDMI+AV IN

Model: RC801

Manufacturer:

Polarization: Vertical

Power Source: AC 120V

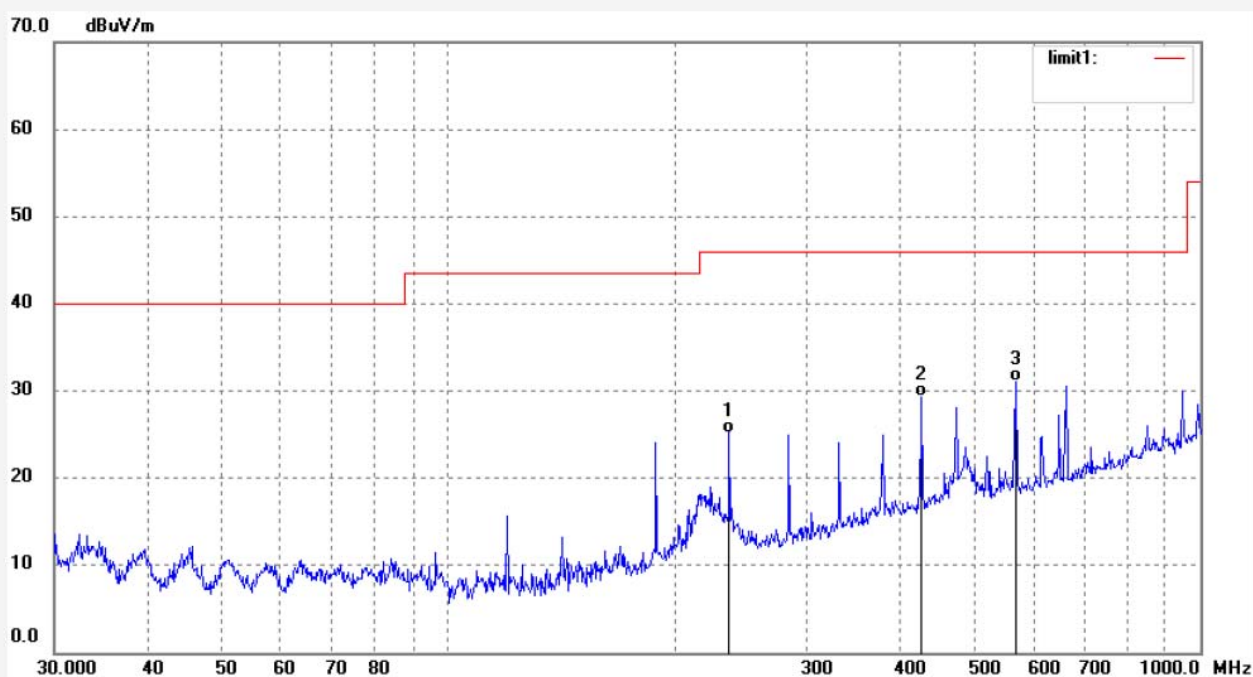
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Time: 9/32/58

Engineer Signature: LGWADE

Distance: 3m

Note: Report No.:ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	236.6447	45.02	-19.82	25.20	46.00	-20.80	QP			
2	426.5210	44.57	-15.27	29.30	46.00	-16.70	QP			
3	568.6127	43.49	-12.40	31.09	46.00	-14.91	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #78

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: HDMI+AV IN

Model: RC801

Manufacturer:

Polarization: Horizontal

Power Source: AC 120V

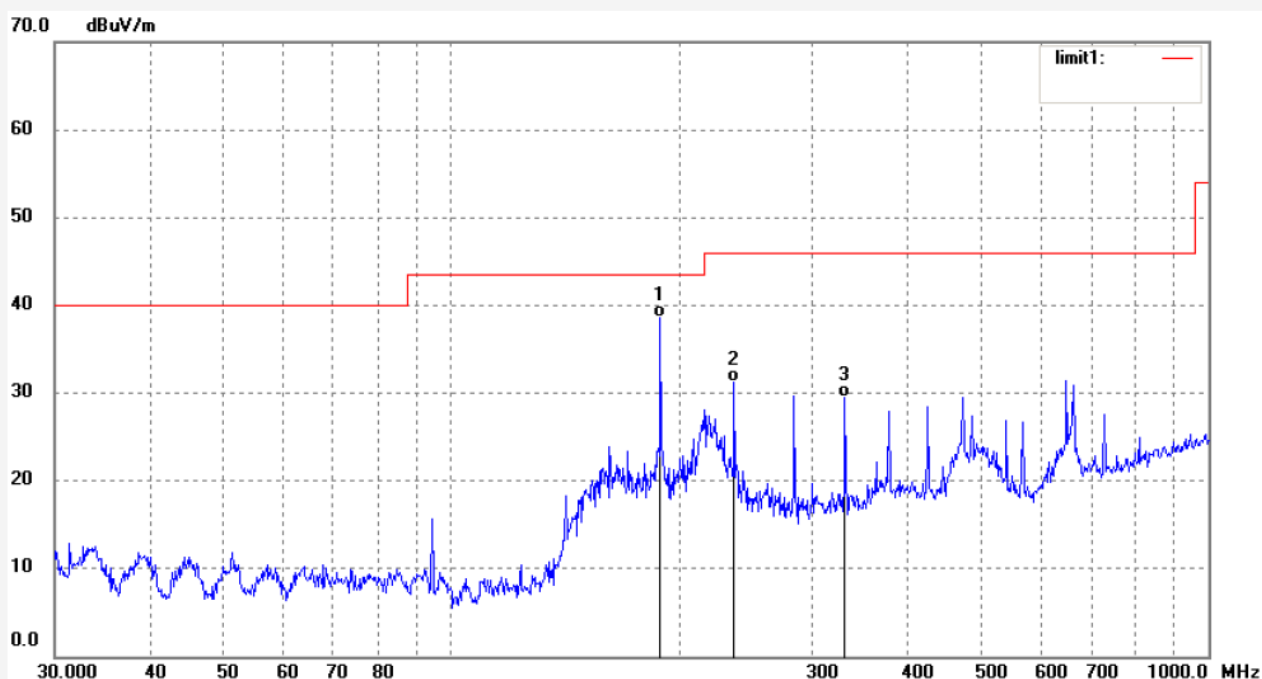
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Time: 9/34/40

Engineer Signature: LGWADE

Distance: 3m

Note: Report No.:ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.0743	59.69	-21.04	38.65	43.50	-4.85	QP			
2	236.6447	51.02	-19.82	31.20	46.00	-14.80	QP			
3	331.3546	46.35	-16.92	29.43	46.00	-16.57	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #75

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: 5.8 Receiver

Model: RC801

Manufacturer:

Polarization: Horizontal

Power Source: AC 120V

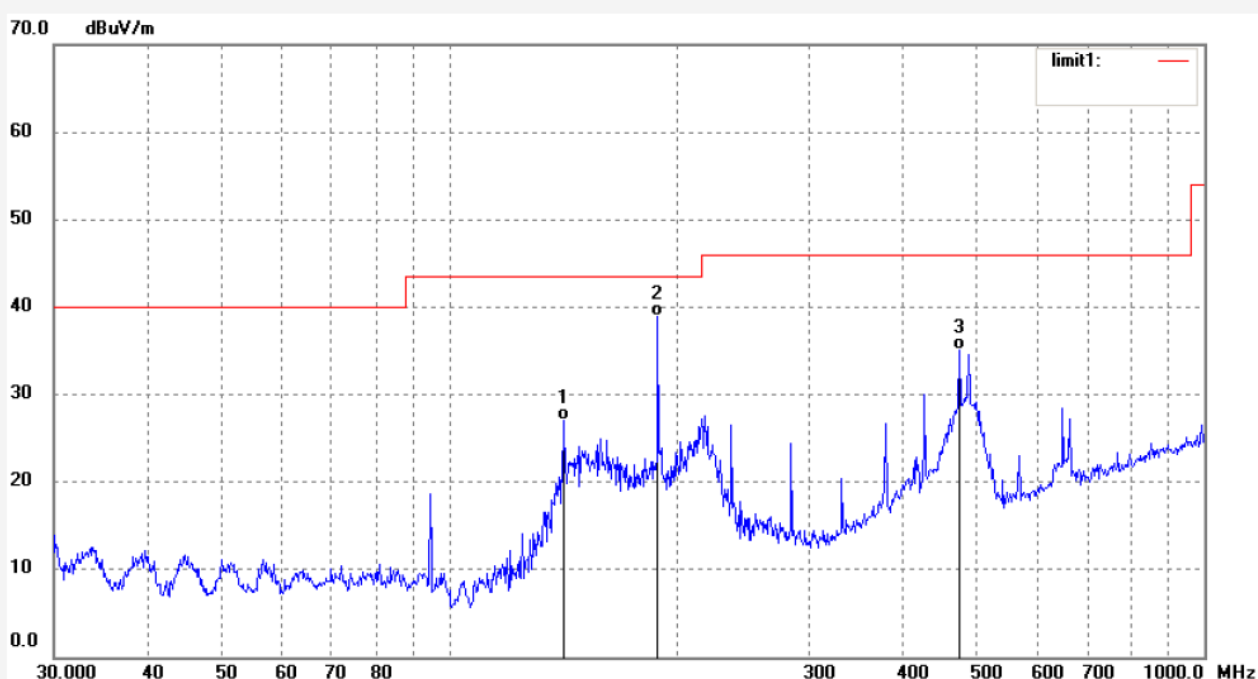
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Time: 9/29/36

Engineer Signature: LGWADE

Distance: 3m

Note: Report No.:ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	141.8262	50.56	-23.56	27.00	43.50	-16.50	QP			
2	189.0743	59.98	-21.04	38.94	43.50	-4.56	QP			
3	473.8347	49.31	-14.22	35.09	46.00	-10.91	QP			



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #76

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: 5.8 Receiver

Model: RC801

Manufacturer:

Polarization: Vertical

Power Source: AC 120V

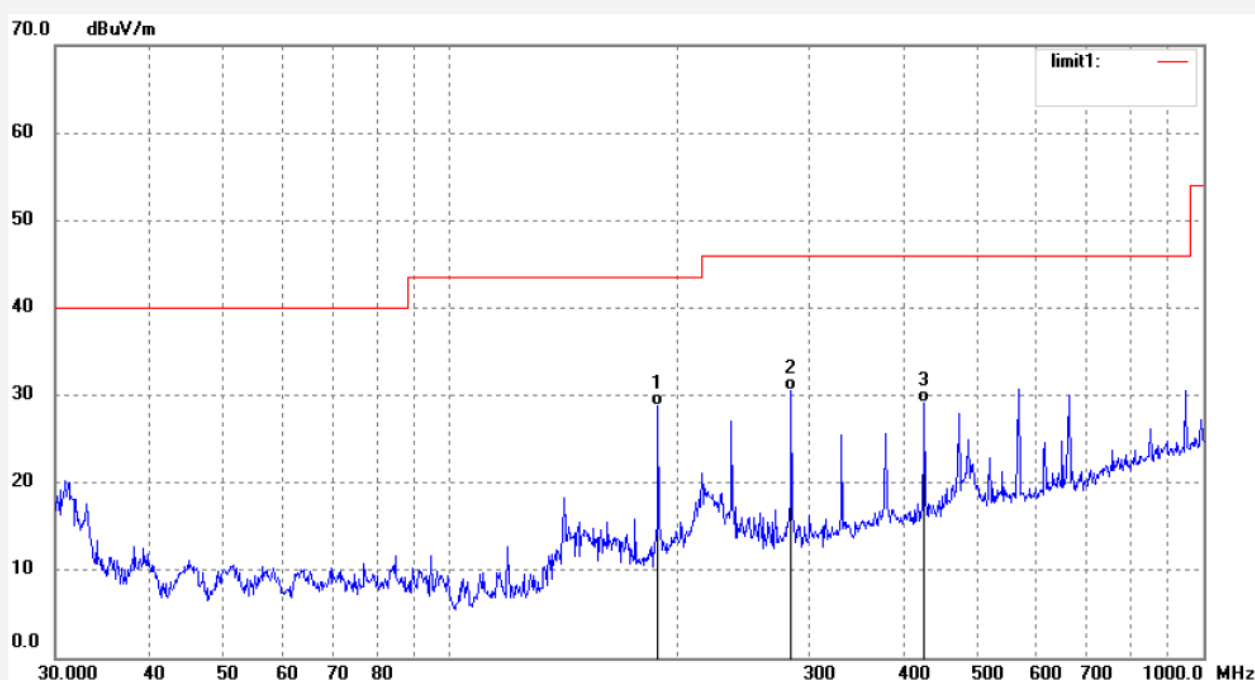
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Engineer Signature: LGWADE

Distance: 3m

Note: Report No.:ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	189.0743	49.86	-21.04	28.82	43.50	-14.68	QP			
2	283.9791	48.79	-18.19	30.60	46.00	-15.40	QP			
3	426.5210	44.39	-15.27	29.12	46.00	-16.88	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #83

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: HDMI+AV IN

Model: RC801

Manufacturer:

Polarization: Horizontal

Power Source: AC 120V

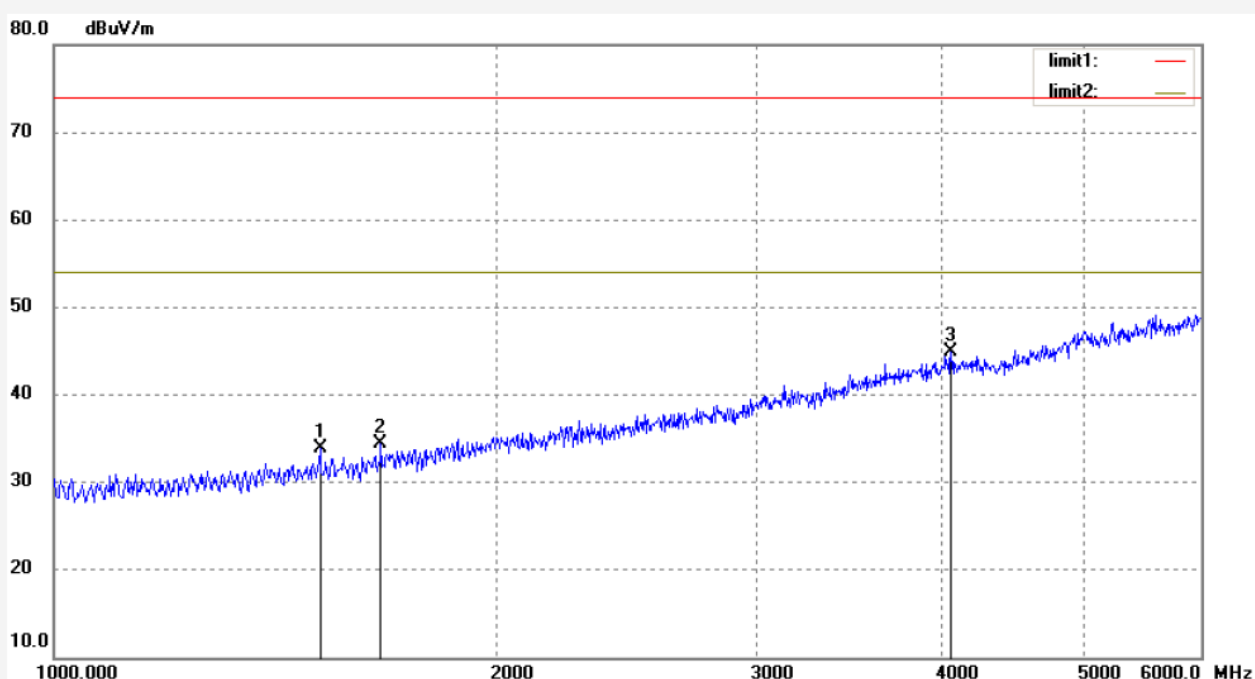
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Time: 9/45/10

Engineer Signature: LGWADE

Distance: 3m

Note: Report No.:ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1515.413	45.19	-11.34	33.85	74.00	-40.15	peak			
2	1666.376	45.01	-10.53	34.48	74.00	-39.52	peak			
3	4059.890	46.05	-1.18	44.87	74.00	-29.13	peak			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #84

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: HDMI+AV IN

Model: RC801

Manufacturer:

Polarization: Vertical

Power Source: AC 120V

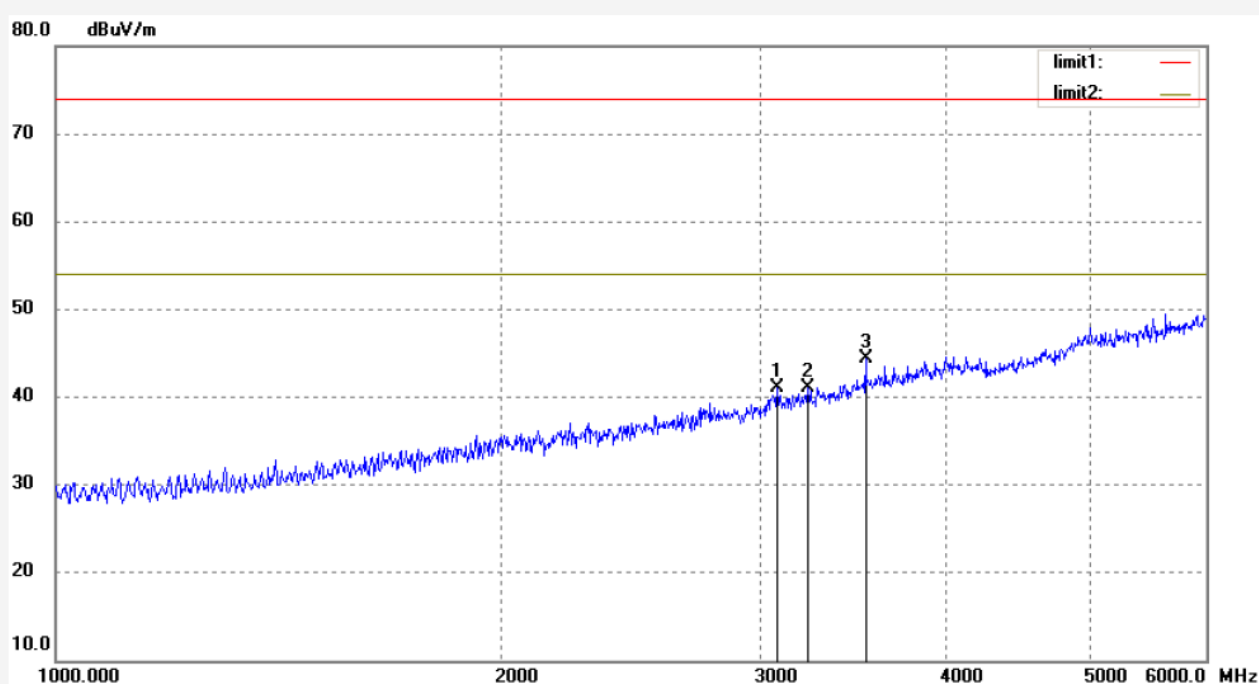
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Time: 9/46/08

Engineer Signature: LGWADE

Distance: 3m

Note: Report No.:ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	3075.394	45.76	-4.68	41.08	74.00	-32.92	peak			
2	3227.832	45.37	-4.25	41.12	74.00	-32.88	peak			
3	3530.356	47.23	-2.89	44.34	74.00	-29.66	peak			



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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #85

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: 5.8 Receiver

Model: RC801

Manufacturer:

Polarization: Vertical

Power Source: AC 120V

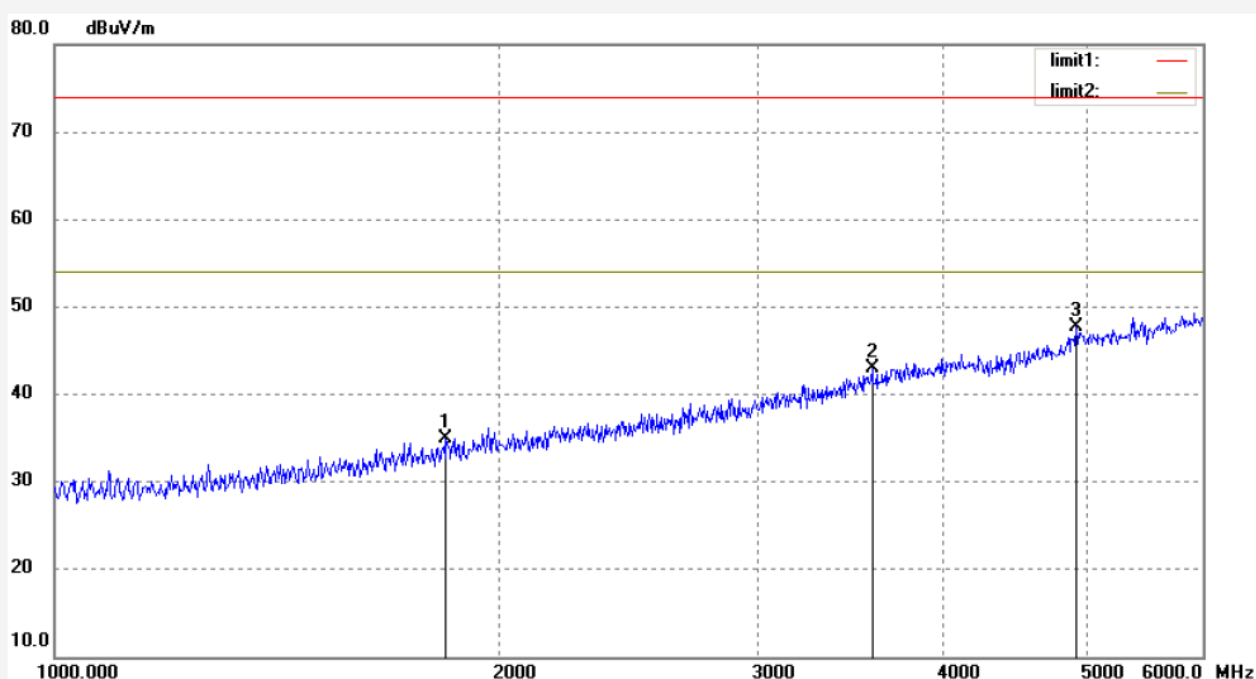
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Engineer Signature: LGWADE

Distance: 3m

Note: Report No.: ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	1842.254	44.53	-9.58	34.95	74.00	-39.05	peak			
2	3581.325	45.67	-2.69	42.98	74.00	-31.02	peak			
3	4926.683	46.53	1.18	47.71	74.00	-26.29	peak			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: rucky3 #86

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Black Pearl

Mode: 5.8 Receiver

Model: RC801

Manufacturer:

Polarization: Horizontal

Power Source: AC 120V

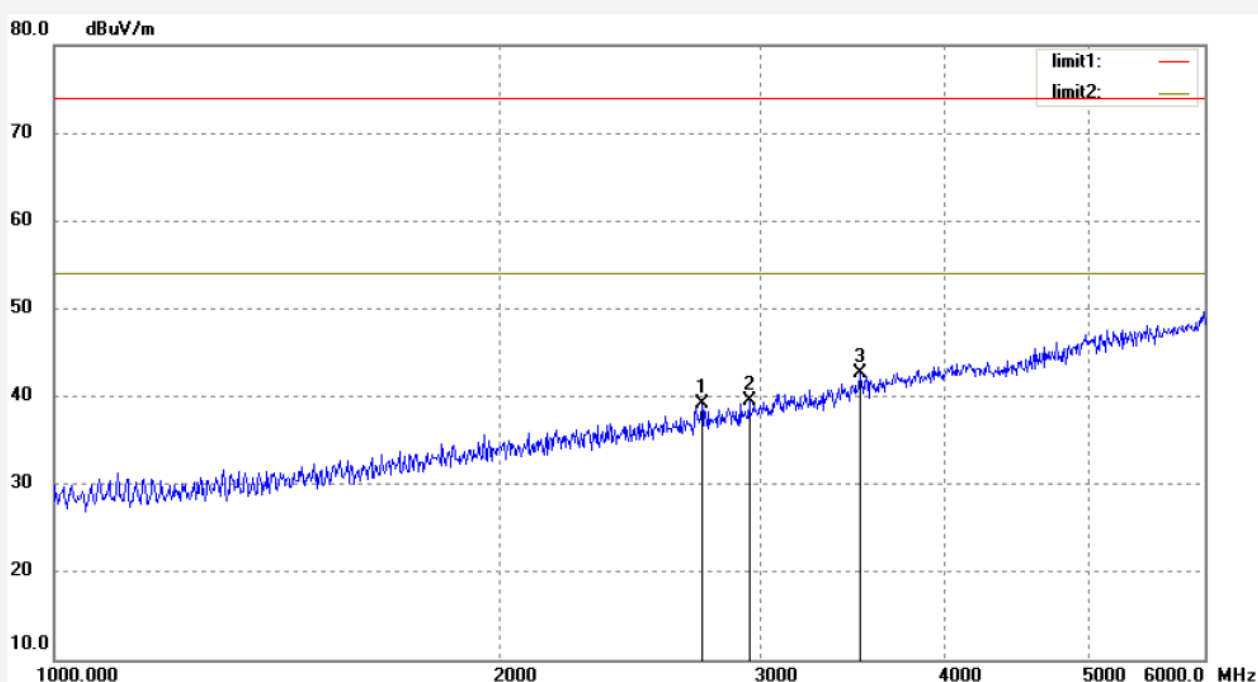
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Time: 9/48/15

Engineer Signature: LGWADE

Distance: 3m

Note: Report No.:ATE20140857



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2742.200	45.29	-6.19	39.10	74.00	-34.90	peak			
2	2951.232	45.12	-5.56	39.56	74.00	-34.44	peak			
3	3505.144	45.54	-2.98	42.56	74.00	-31.44	peak			