

# TEST REPORT

Reference No..... : WT12128442-S-S-F  
FCC ID ..... : YVV-AEE18192021  
Applicant..... : Shenzhen AEE Technology CO., LTD.  
Address..... : AEE Hi-Tech Park, Sun Industrial Area, Xili, Nanshan District,  
Shenzhen, P.R.C 518108  
Manufacturer ..... : Shenzhen AEE Technology CO., LTD.  
Address..... : AEE Hi-Tech Park, Sun Industrial Area, Xili, Nanshan District,  
Shenzhen, P.R.C 518108  
Product Name..... : Action Camcorder  
Model No. .... : SD18,SD19,SD20  
Standards..... : FCC PART15 SUBPART B 2010  
Date of Receipt sample .... : Dec.12, 2012  
Date of Test ..... : Dec.12, 2012 to Dec.19, 2012  
Date of Issue ..... : Dec.19, 2012  
Test Report Form No..... : FCC 15-1A  
Test Result..... : **Pass \***

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.  
The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

**Prepared By:**

**Waltek Services (Shenzhen) Co., Ltd.**

Address: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Testing location: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Tel :+86-755-83551033

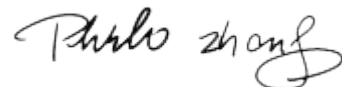
Fax:+86-755-83552400

Compiled by:

Approved by:



Zero Zhou / Project Engineer



Philo Zhong / Manager

Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

FCC ID: YVV-AEE18192021

**1 Test Summary**

Test Item	Test Requirement	Class	Test Method	Test Result
Conducted Emission (150KHz to 30MHz)	FCC PART 15, SUBPART B: 2010	Class B	ANSI C63.4: 2003	Pass
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2010	Class B	ANSI C63.4: 2003	Pass
Radiated Emission (Above 1GHz)	FCC PART 15, SUBPART B: 2010	Class B	ANSI C63.4: 2003	Pass

Pass

Test item meets the requirement

## 2 Contents

	Page
<b>COVER PAGE.....</b>	<b>1</b>
<b>1 TEST SUMMARY .....</b>	<b>2</b>
<b>2 CONTENTS .....</b>	<b>3</b>
<b>3 GENERAL INFORMATION .....</b>	<b>4</b>
3.1 GENERAL DESCRIPTION OF E.U.T. ....	4
3.2 DETAILS OF E.U.T. ....	4
3.3 DESCRIPTION OF SUPPORT UNITS.....	4
3.4 STANDARDS APPLICABLE FOR TESTING .....	4
3.5 TEST FACILITY .....	4
3.6 SUBCONTRACTED.....	4
3.7 ABNORMALITIES FROM STANDARD CONDITIONS .....	4
<b>4 EQUIPMENT USED DURING TEST.....</b>	<b>5</b>
4.1 MEASUREMENT UNCERTAINTY .....	5
<b>5 EMISSION TEST RESULTS .....</b>	<b>6</b>
5.1 MAINS TERMINALS DISTURBANCE VOLTAGE, 150KHZ TO 30MHZ.....	6
5.1.1 E.U.T. Operation.....	6
5.1.2 Block Diagram of Test Setup.....	6
5.1.3 Measurement Data.....	7
5.1.4 Mains Terminals Disturbance Voltage Test Data.....	7
5.2 RADIATION EMISSION FOR 30MHZ TO 1000MHZ .....	9
5.2.1 E.U.T. Operation.....	9
5.2.2 Block Diagram of Test Setup.....	10
5.2.3 Measurement Data.....	10
5.2.4 Radiated Emission test datas, 30MHz to 1000MHz.....	11
5.3 RADIATION EMISSION FOR ABOVE 1000MHZ .....	19
5.3.1 E.U.T. Operation.....	19
5.3.2 Block Diagram of Test Setup.....	20
5.3.3 Measurement Data.....	20
5.3.4 Radiation Emission Data above 1GHz .....	21
<b>6 PHOTOGRAPHS – TEST SETUP .....</b>	<b>28</b>
6.1 PHOTOGRAPH –MAINS TERMINALS DISTURBANCE VOLTAGE TEST SETUP.....	28
6.2 PHOTOGRAPH –RADIATED EMISSION TEST SETUP 30MHZ TO 1GHZ.....	28
6.3 PHOTOGRAPH –RADIATED EMISSION TEST SETUP ABOVE 1GHZ .....	29
<b>7 PHOTOGRAPHS – CONSTRUCTIONAL DETAILS.....</b>	<b>30</b>
7.1 EUT – EXTERNAL VIEW .....	30
7.2 EUT – INTERNAL VIEW .....	34
<b>8 FCC ID LABEL.....</b>	<b>40</b>

### 3 General Information

#### 3.1 General Description of E.U.T.

**Product Name** ..... : Action Camcorder

**Model No.**..... : SD18,SD19,SD20

**Model Differences**..... : According to information supplied by the applicant, only the model name and appearance are different.

#### 3.2 Details of E.U.T.

**Technical Data**..... : DC 3.7V (Via built-in Li-ion battery)  
Adapter Input: 100-240V AC, 50/60Hz, 0.25A MAX  
Adapter Output: 5.0V DC, 1.0A

**Operating Frequency** . : 433.92MHz

#### 3.3 Description of Support Units

The EUT has been tested as an independent unit. The model SD18 is the tested sample.

#### 3.4 Standards Applicable for Testing

The tests were performed according to following standards:

FCC PART 15, SUBPART B: Electronic Code of Federal Regulations- Unintentional Radiators  
2010

#### 3.5 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A**

Waltek Services(Shenzhen) Co., Ltd. has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration 7760A, July 12, 2012.

- **FCC – Registration No.: 880581**

Waltek Services (Shenzhen) Co., Ltd. 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 880581, May 26, 2011.

#### 3.6 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

#### 3.7 Abnormalities from Standard Conditions

None.

Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

FCC ID: YVV-AEE18192021

#### 4 Equipment Used during Test

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101178	Aug. 13,2012	Aug. 13,2013
2.	LISN	R&S	ENV216	101215	Aug. 13,2012	Aug. 13,2013
3.	Cable	HUBER+SUHNER	CBL2-NN-3M	2230300	Aug.14,2012	Aug. 14,2013
3m Semi-anechoic Chamber for Radiation Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer	Agilent	E7405A	MY45114943	Aug. 13,2012	Aug. 13,2013
2.	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Aug. 13,2012	Aug. 13,2013
3.	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Aug. 13,2012	Aug. 13,2013
4.	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Aug. 13,2012	Aug. 13,2013
5.	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	399	Aug. 13,2012	Aug. 13,2013
6.	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Feb .23,2012	Feb .23,2013
7.	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-148	Aug. 13,2012	Aug. 13,2013
8.	10m Coaxial Cable with N- plug	SCHWARZBECK	AK 9515 H	-	Aug. 13,2012	Aug. 13,2013
9.	10m 50 Ohm Coaxial Cable with N-plug	SCHWARZBECK	AK 9513	-	Aug. 13,2012	Aug. 13,2013

##### 4.1 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±3.64dB	(1)
Radiation	30MHz~1000MHz	±5.03dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 5 Emission Test Results

### 5.1 Mains Terminals Disturbance Voltage, 150kHz to 30MHz

Test Requirement.....	: FCC PART 15, SUBPART B
Test Method.....	: ANSI C63.4
Test Result.....	: Pass
Test Limit.....	: FCC PART 15, SUBPART B Section 15.107
Frequency Range .....	: 150kHz to 30MHz
Class.....	: Class B
Limit .....	: 66-56 dB $\mu$ V between 0.15MHz & 0.5MHz 56 dB $\mu$ V between 0.5MHz & 5MHz 60 dB $\mu$ V between 5MHz & 30MHz

#### 5.1.1 E.U.T. Operation

##### Operating Environment:

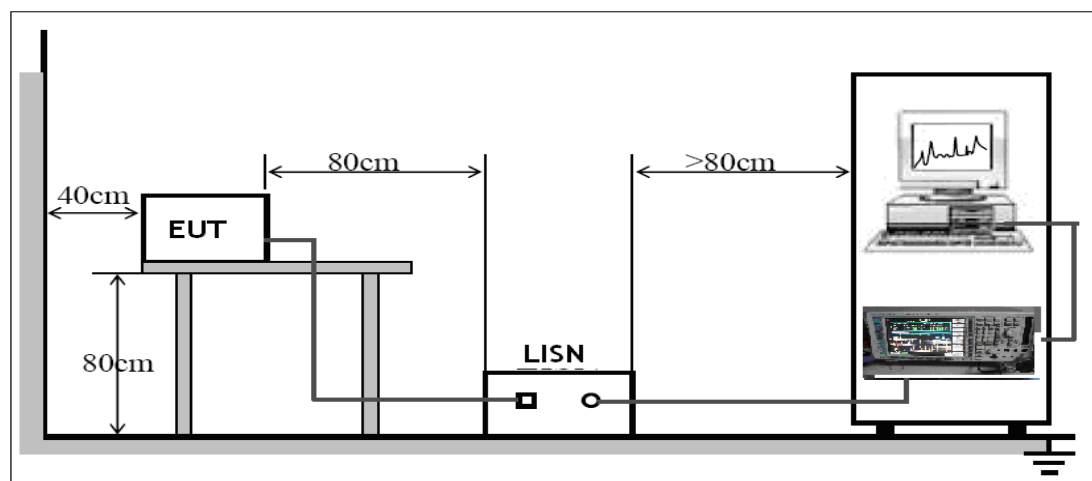
Temperature.....	: 23.5°C
Humidity.....	: 32.1%RH
Atmospheric Pressure.....	: 101.5Kbar

##### EUT Operation:

Input Voltage.....	: AC 120V/60Hz
Operating Mode.....	: 1. Adapter charging mode

#### 5.1.2 Block Diagram of Test Setup

The Mains Terminals Disturbance Voltage tests were performed in accordance with the FCC PART 15, SUBPART B .



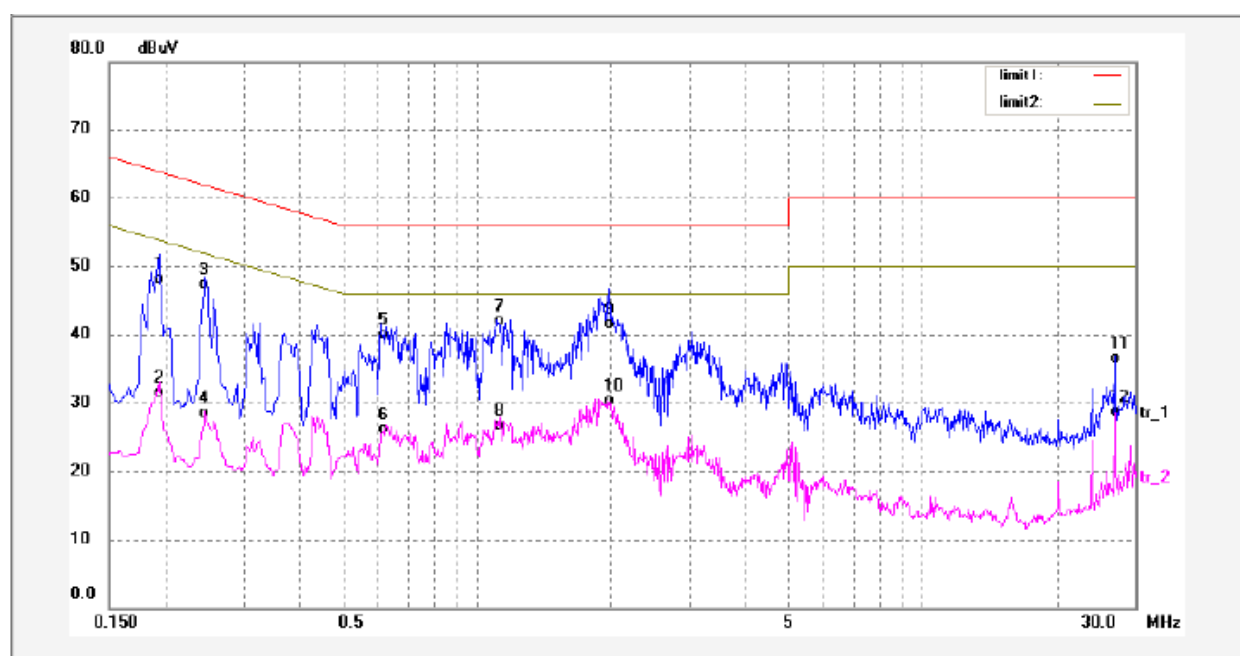
### 5.1.3 Measurement Data

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line. According to the data in section 5.1.4, the EUT complied with the FCC PART 15, SUBPART B standards.

### 5.1.4 Mains Terminals Disturbance Voltage Test Data

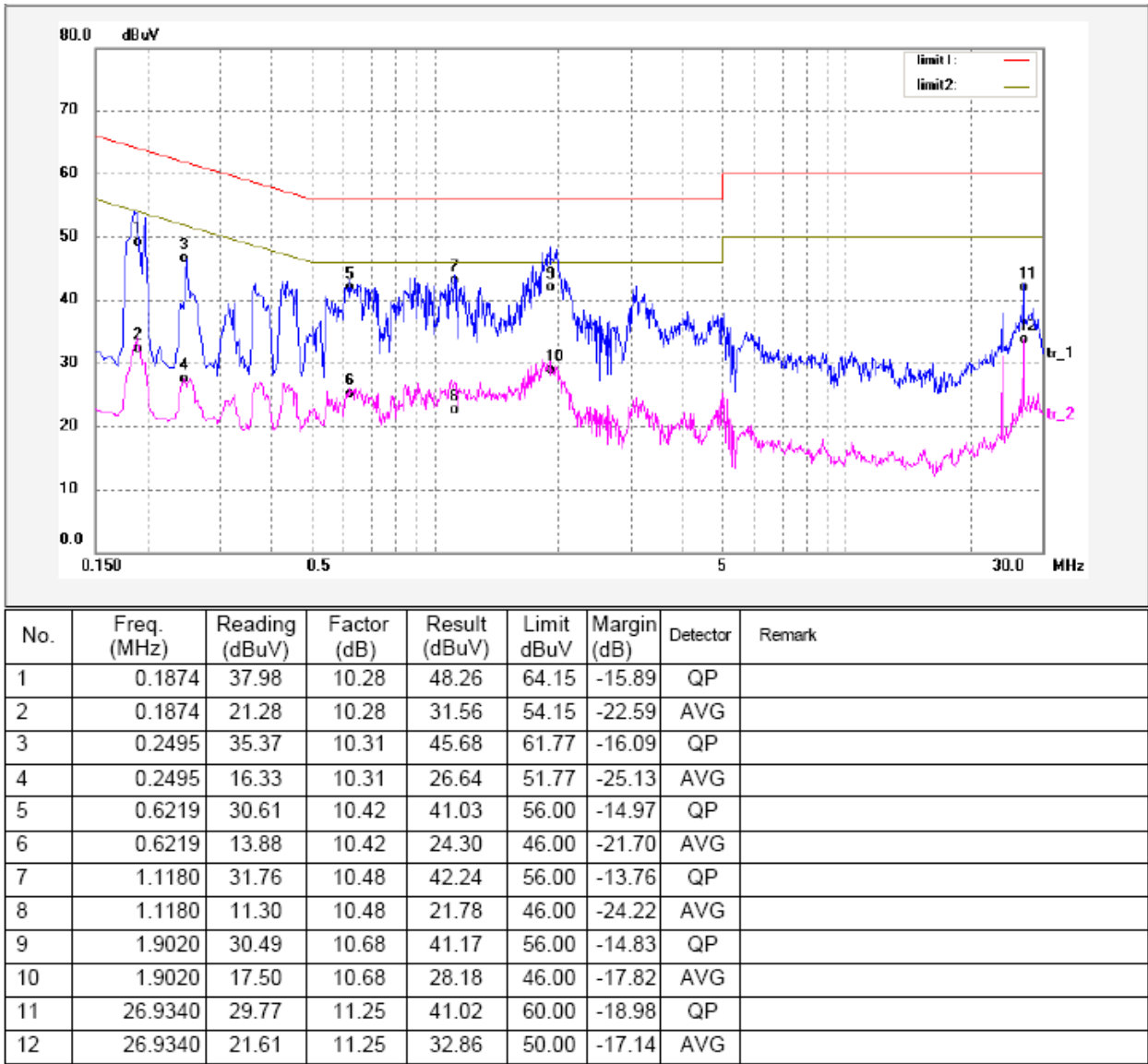
Adapter Charging mode:

Live Line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1923	37.05	10.28	47.33	63.93	-16.60	QP	
2	0.1923	20.36	10.28	30.64	53.93	-23.29	AVG	
3	0.2459	36.20	10.30	46.50	61.89	-15.39	QP	
4	0.2459	17.49	10.30	27.79	51.89	-24.10	AVG	
5	0.6097	28.72	10.42	39.14	56.00	-16.86	QP	
6	0.6097	14.92	10.42	25.34	46.00	-20.66	AVG	
7	1.1140	30.65	10.48	41.13	56.00	-14.87	QP	
8	1.1140	15.34	10.48	25.82	46.00	-20.18	AVG	
9	1.9900	30.02	10.70	40.72	56.00	-15.28	QP	
10	1.9900	18.76	10.70	29.46	46.00	-16.54	AVG	
11	27.1620	24.52	11.26	35.78	60.00	-24.22	QP	
12	27.1620	16.66	11.26	27.92	50.00	-22.08	AVG	

Neutral Line:





## 5.2 Radiation Emission For 30MHz to 1000MHz

<b>Test Requirement</b> .....	:	FCC PART 15, SUBPART B
<b>Test Method</b> .....	:	ANSI C63.4
<b>Test Limit</b> .....	:	FCC PART 15, SUBPART B Section 15.109
<b>Test Result</b> .....	:	Pass
<b>Frequency Range</b> .....	:	30MHz to 1000MHz
<b>Class</b> .....	:	Class B
<b>Limit</b> .....	:	40.0 dB $\mu$ V/m between 30MHz & 88MHz 43.5 dB $\mu$ V/m between 88MHz & 216MHz 46.0 dB $\mu$ V/m between 216MHz & 960MHz 54.0 dB $\mu$ V/m above 960MHz

### 5.2.1 E.U.T. Operation

#### Operating Environment:

<b>Temperature</b> .....	:	23.2°C
<b>Humidity</b> .....	:	31.9%RH
<b>Atmospheric Pressure</b> .....	:	101.2Kbar

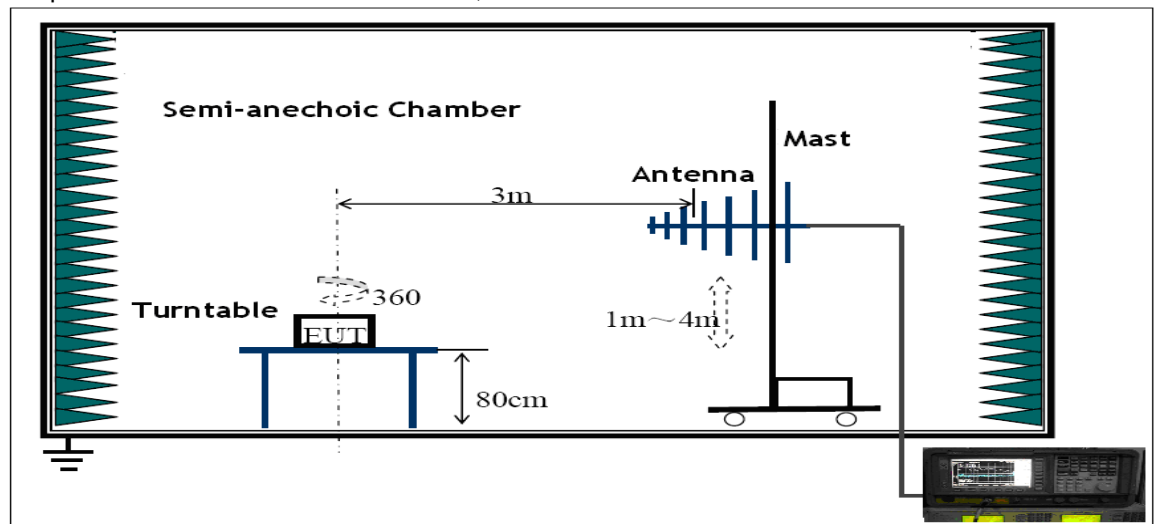
#### EUT Operation:

<b>Input Voltage</b> .....	:	AC 120V/60Hz and DC 3.7V (via built-in Li-ion battery)
<b>Operating Mode</b> .....	:	1. Recording mode with and without LCD display (battery operated only) 2. Playing mode with and without LCD display (battery operated only) 3. AV output mode without LCD display (battery operated only) 4. HDMI mode without LCD display (battery operated only) 5. Wireless receiving mode (battery operated only) 6. Charging mode (adapter operated )

<b>Remark</b> .....	:	For Wireless receiving mode, a typical signal or an unmodulated CW signal at the operating frequency of the EUT shall be supplied to the EUT for all measurements. Such a signal may be supplied by either a signal generator and an antenna inclose proximity to the EUT or directly conducted into the antenna terminals of the EUT.  The signal level shall be sufficient to stabilize the local oscillator of the EUT.
---------------------	---	--

### 5.2.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the FCC PART 15, SUBPART B.



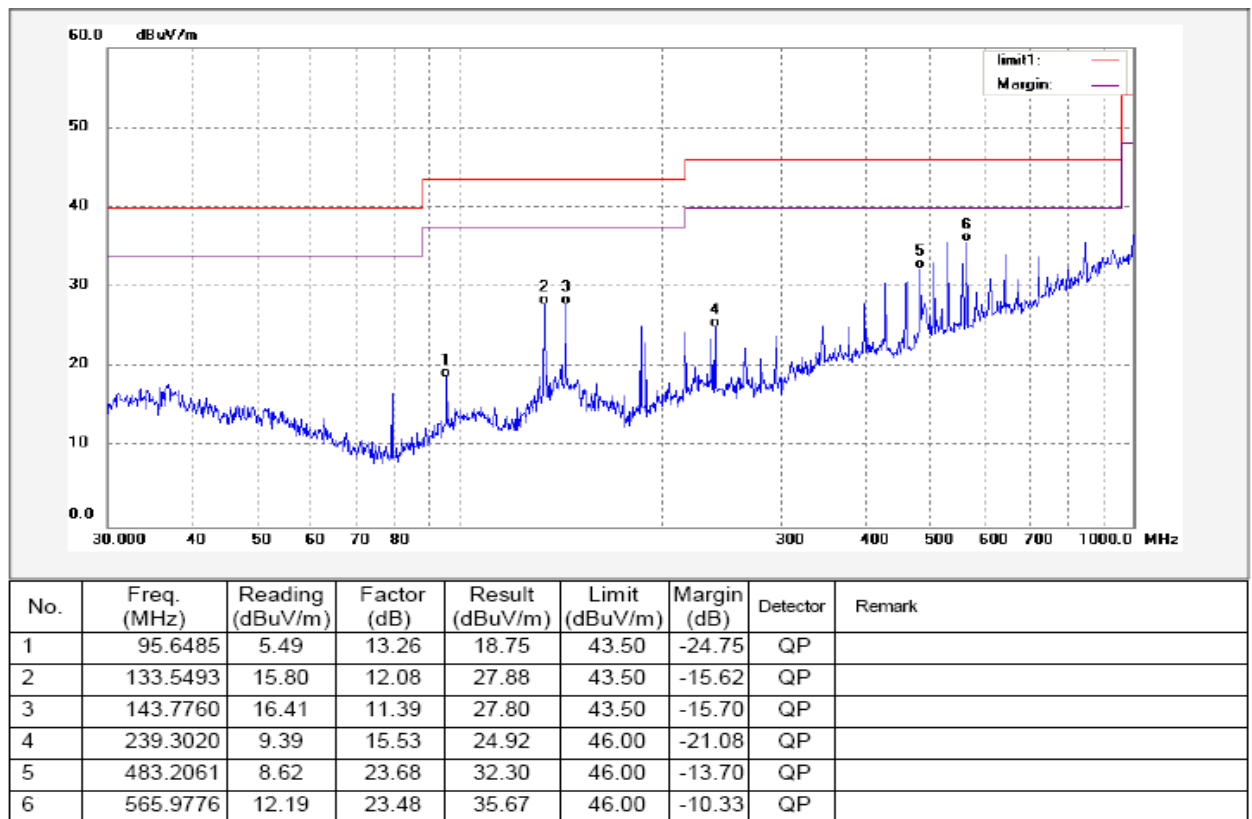
### 5.2.3 Measurement Data

According to the data in section 5.2.4, the EUT complied with the FCC PART 15, SUBPART B standards.

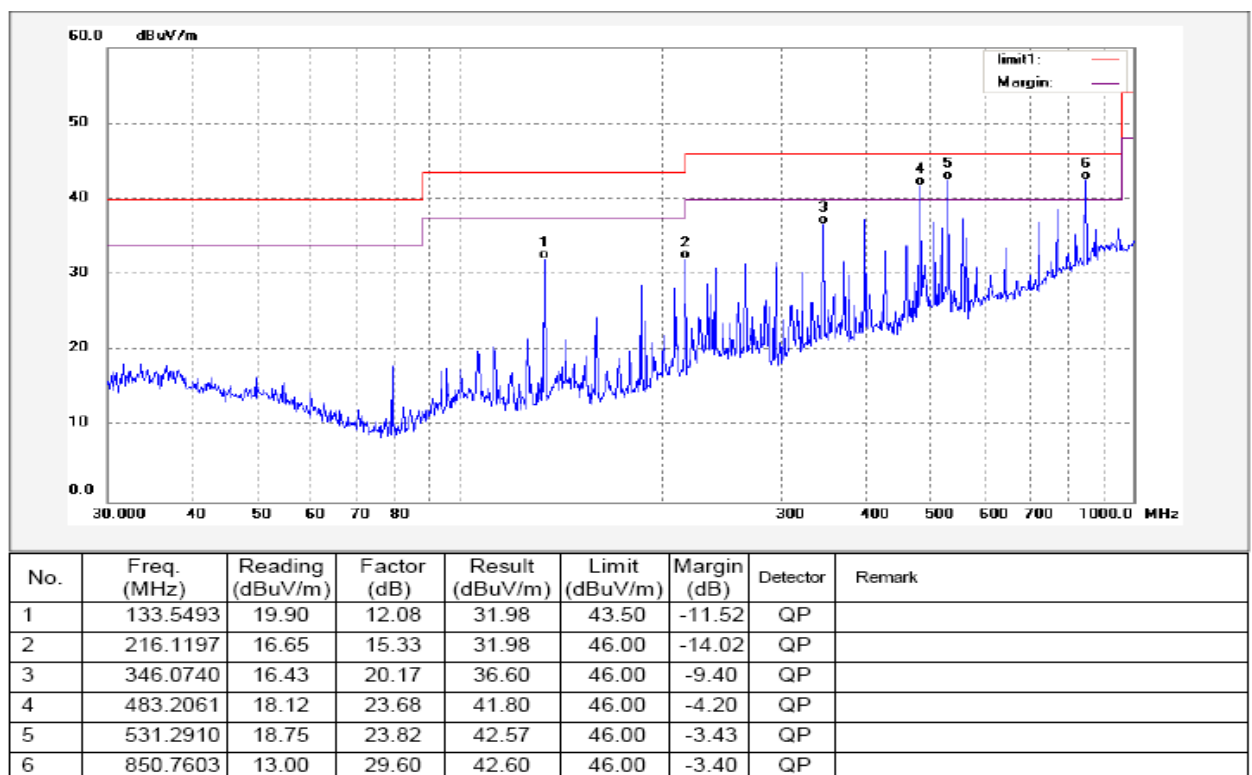
### 5.2.4 Radiated Emission test datas, 30MHz to 1000MHz

REC Mode (With display):

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



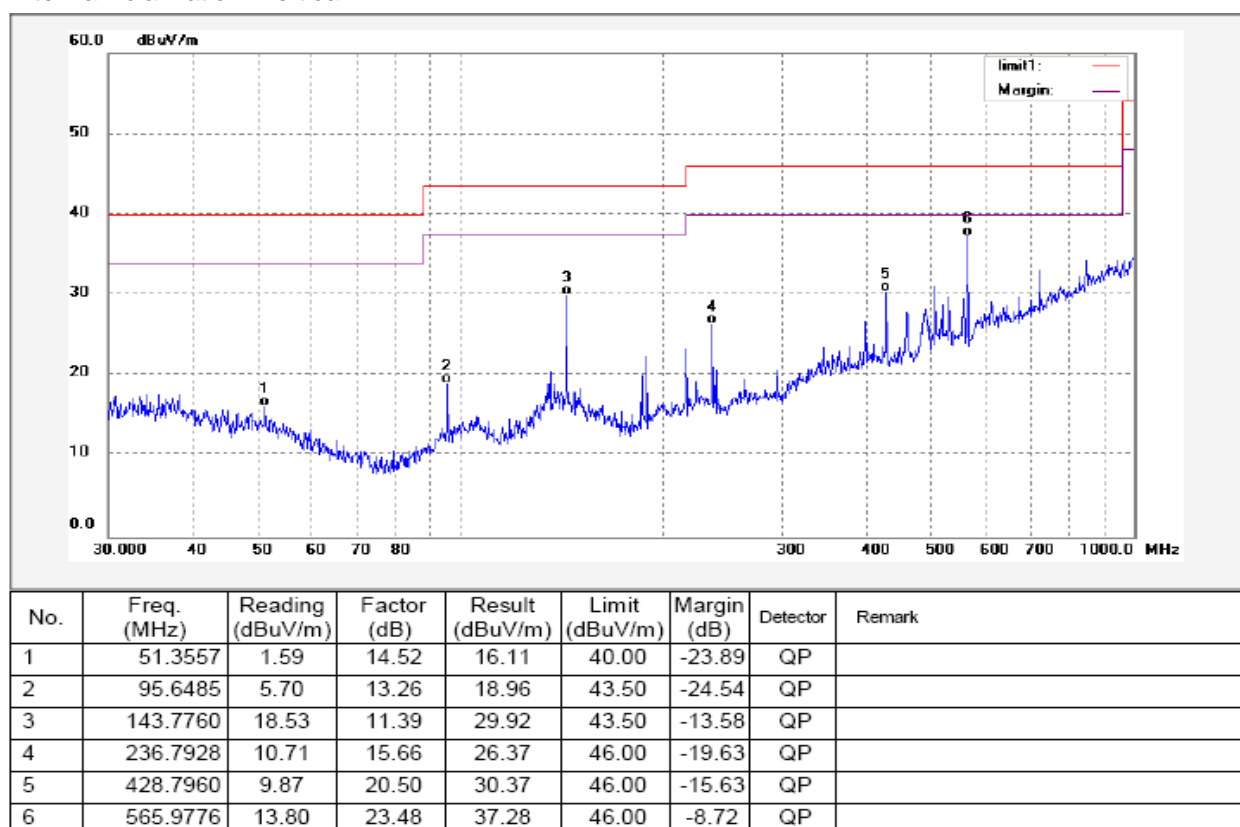
Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

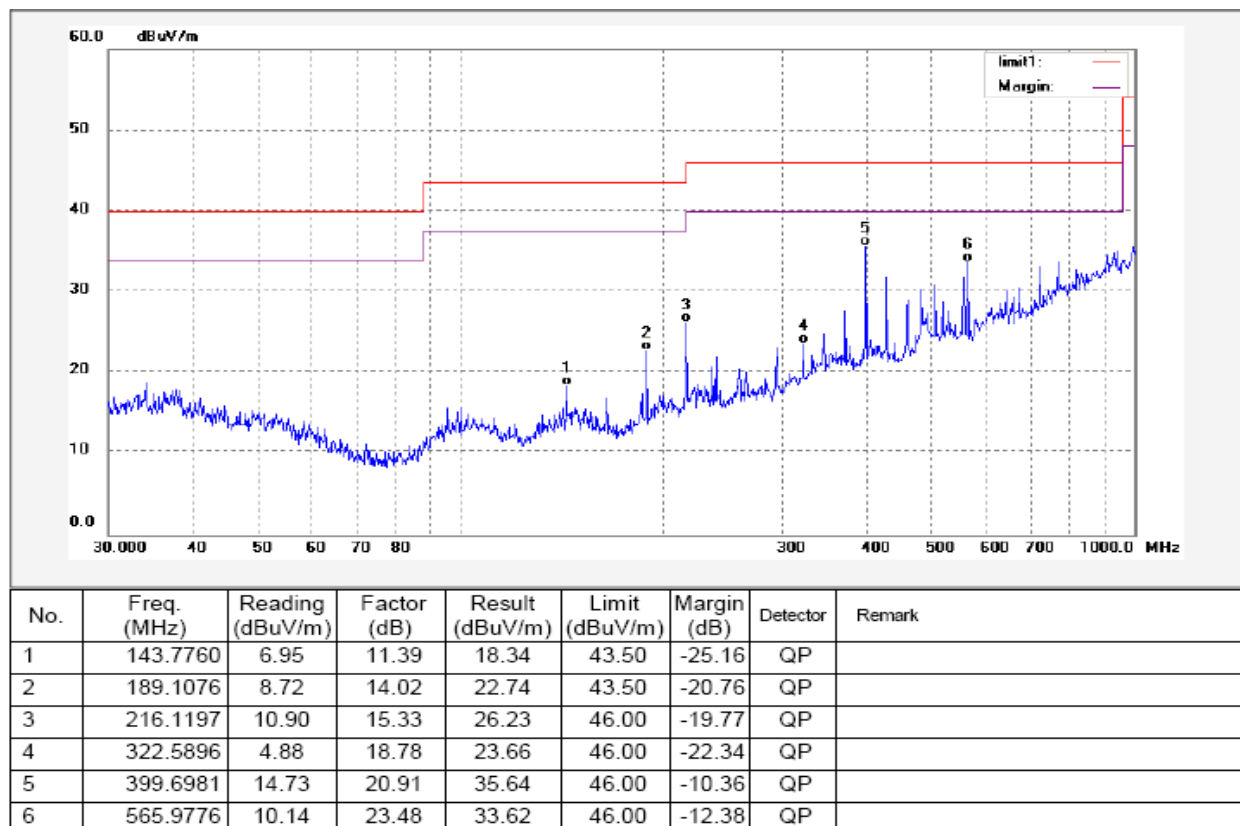
FCC ID: YVV-AEE18192021

REC Mode (Without display):

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



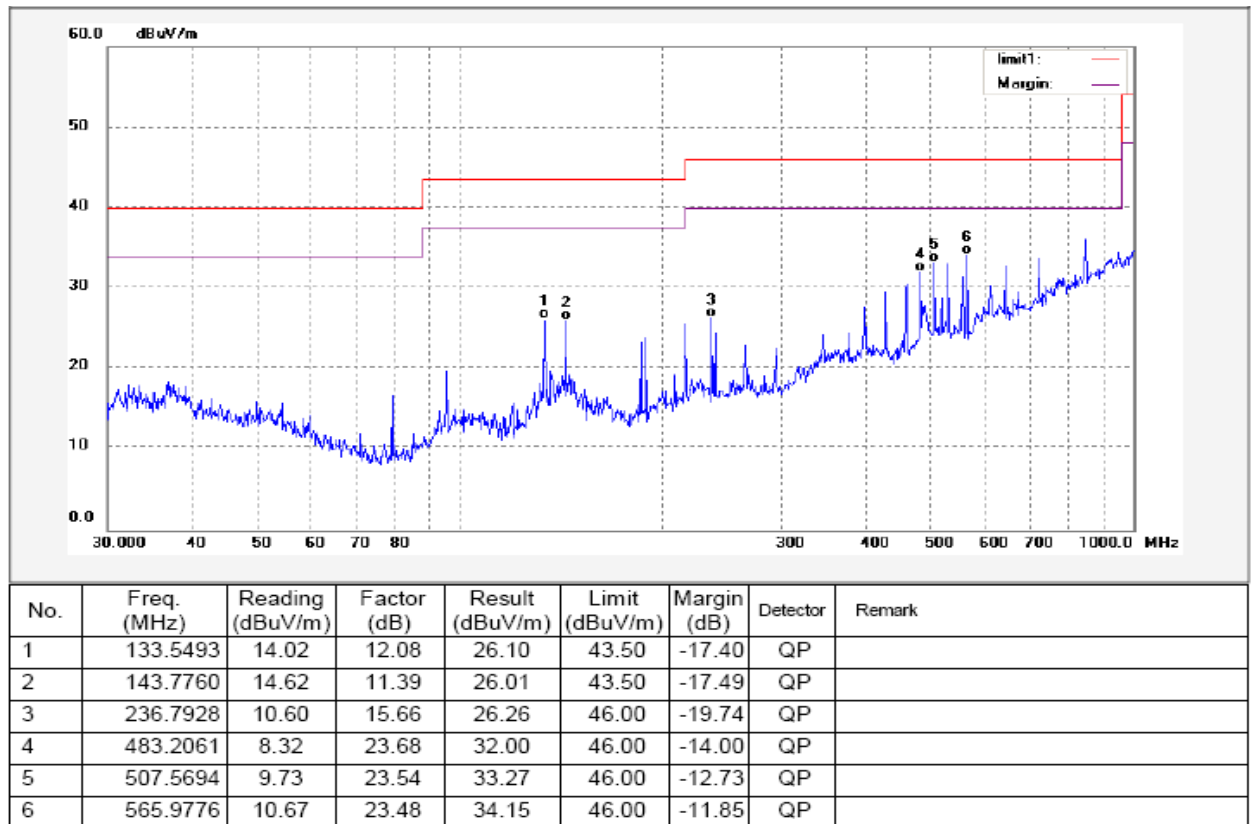
Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

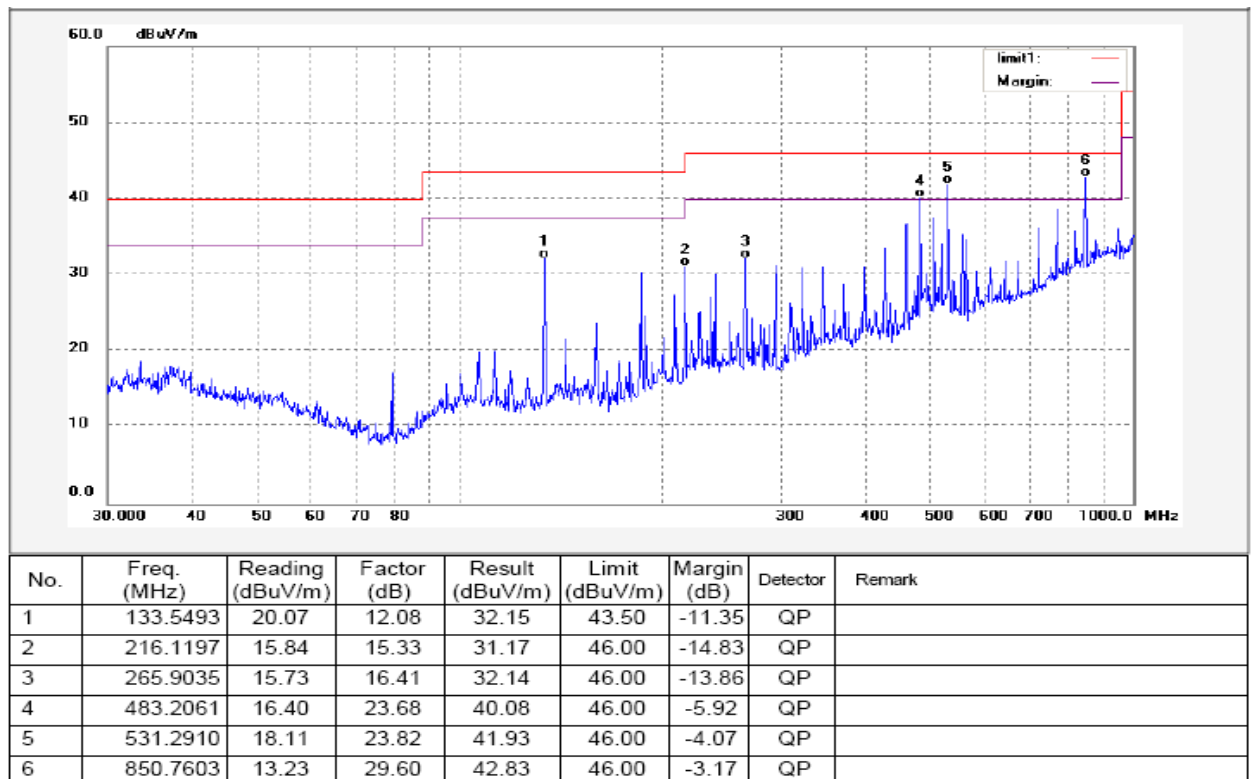
FCC ID: YVV-AEE18192021

Playing Mode (With display):

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



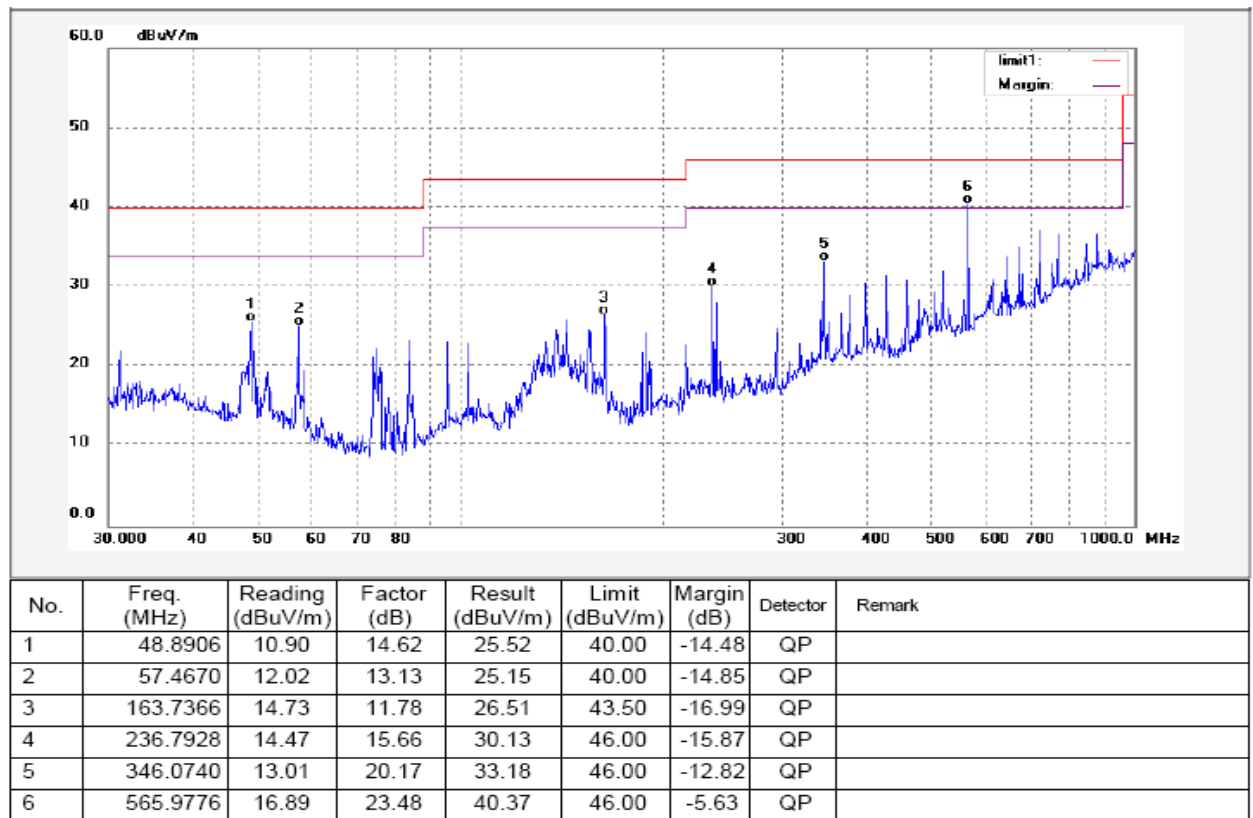
Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

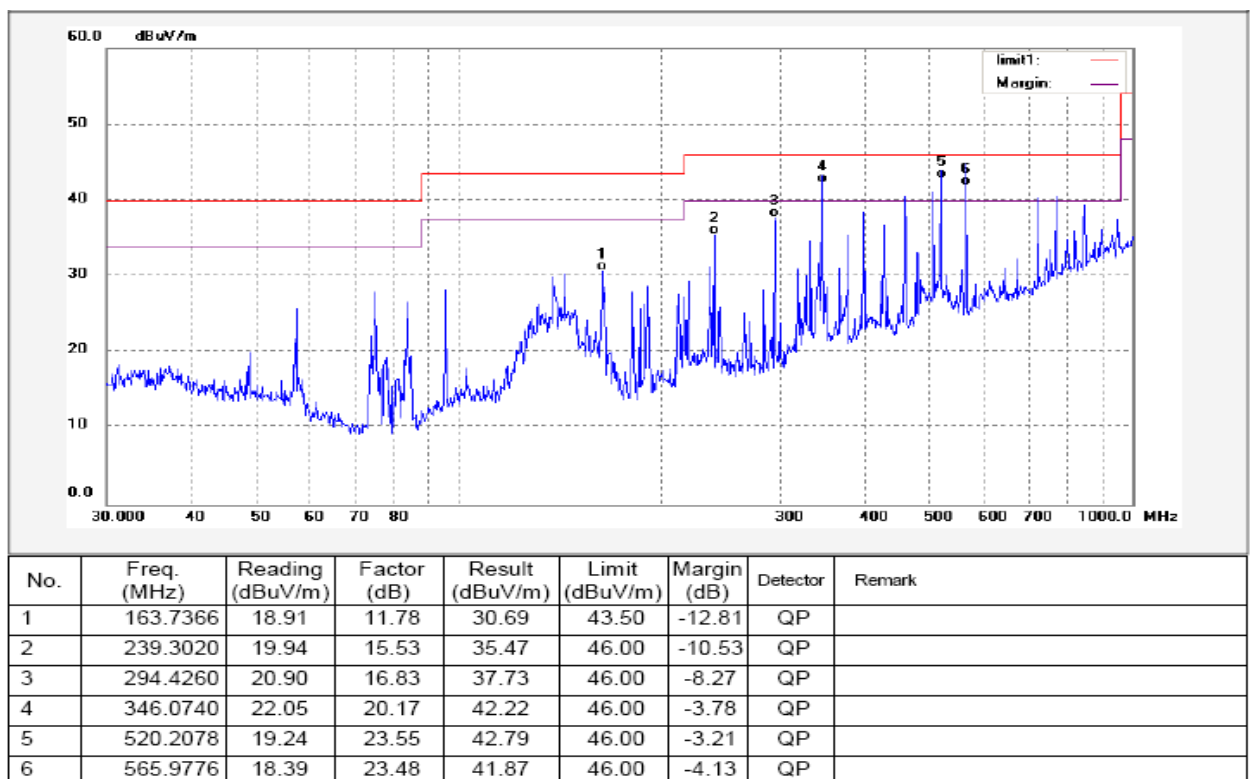
FCC ID: YVV-AEE18192021

AV Out Mode (Without display):

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



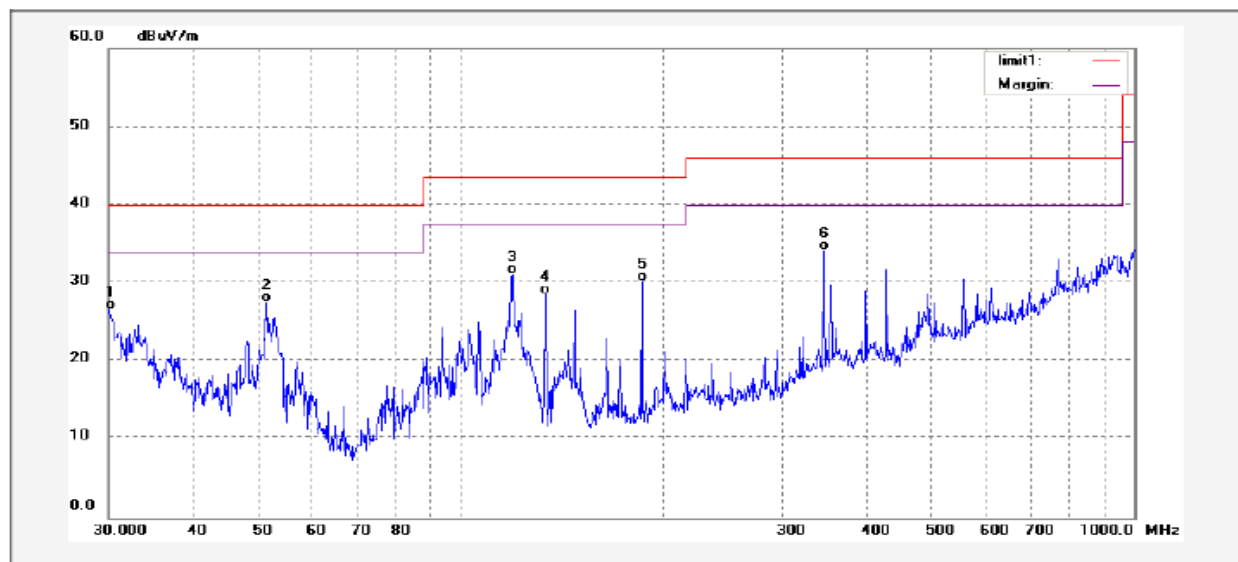
Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

FCC ID: YVV-AEE18192021

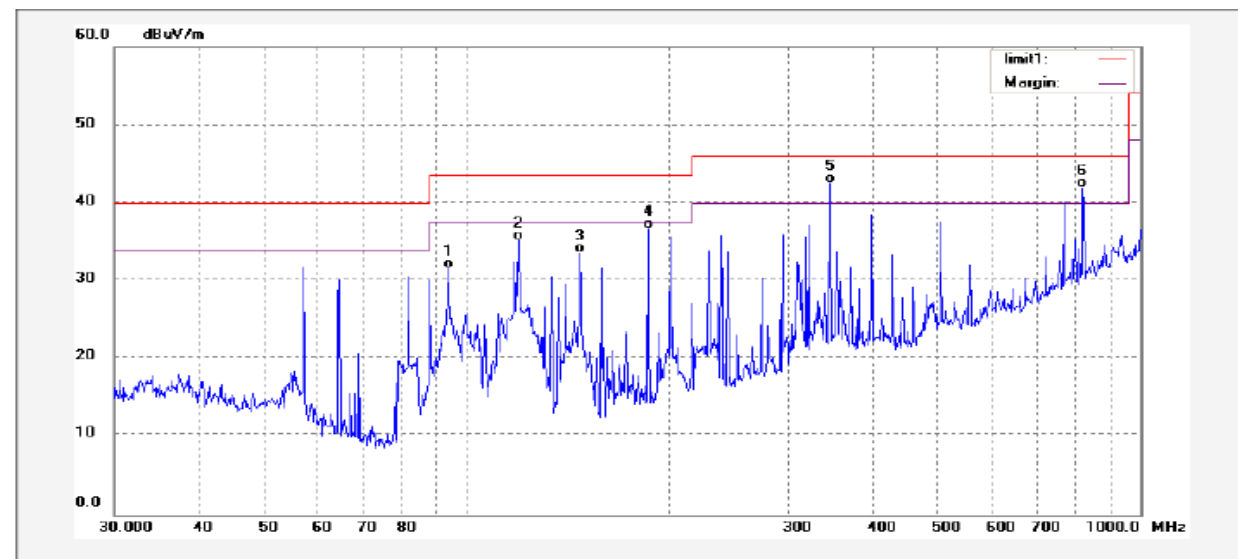
Charging Mode (With display):

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.1056	10.41	16.17	26.58	40.00	-13.42	QP	
2	51.5365	12.96	14.52	27.48	40.00	-12.52	QP	
3	119.3471	19.16	12.01	31.17	43.50	-12.33	QP	
4	133.5493	16.54	12.08	28.62	43.50	-14.88	QP	
5	185.8143	16.11	14.08	30.19	43.50	-13.31	QP	
6	346.0740	13.91	20.17	34.08	46.00	-11.92	QP	

Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	93.9829	18.72	12.86	31.58	43.50	-11.92	QP	
2	119.3471	23.09	12.01	35.10	43.50	-8.40	QP	
3	147.3560	22.28	11.19	33.47	43.50	-10.03	QP	
4	185.8143	22.58	14.08	36.66	43.50	-6.84	QP	
5	346.0740	22.41	20.17	42.58	46.00	-3.42	QP	
6	821.3871	12.33	29.53	41.86	46.00	-4.14	QP	

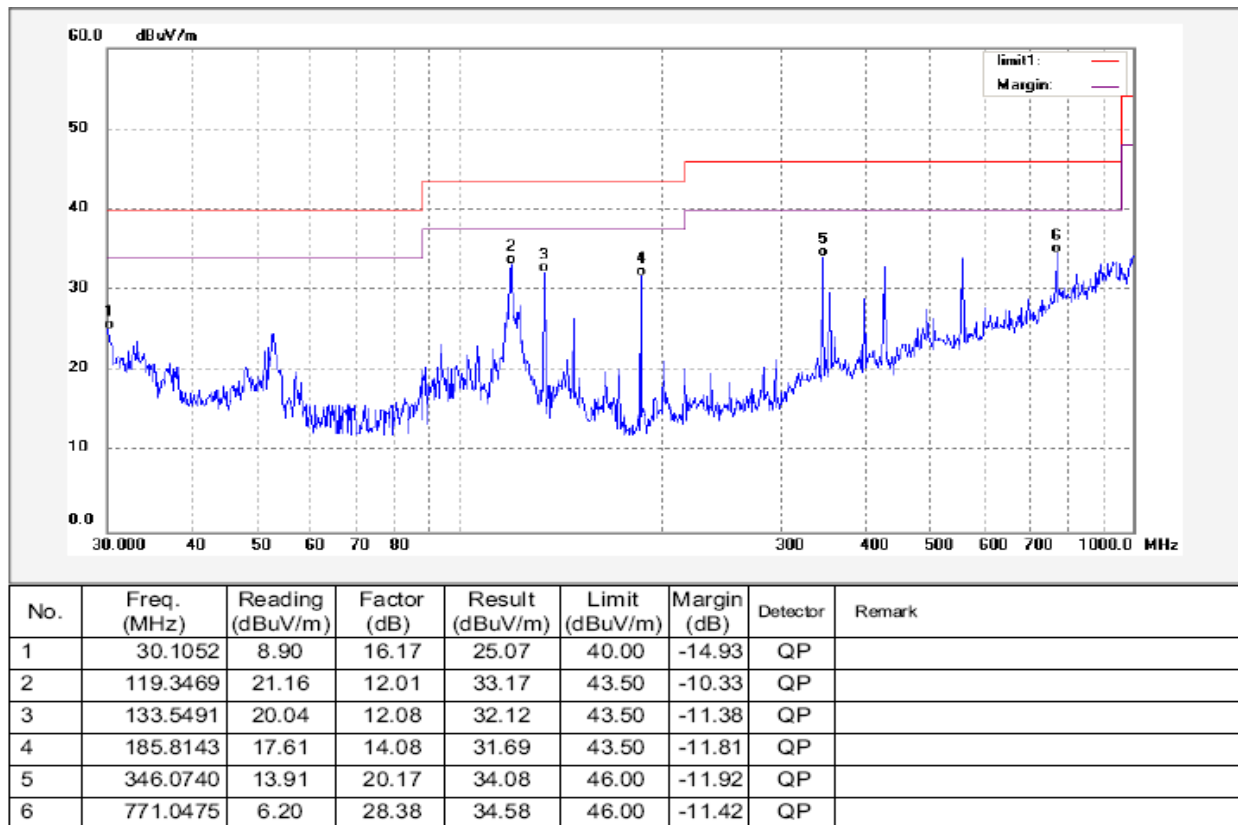
Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

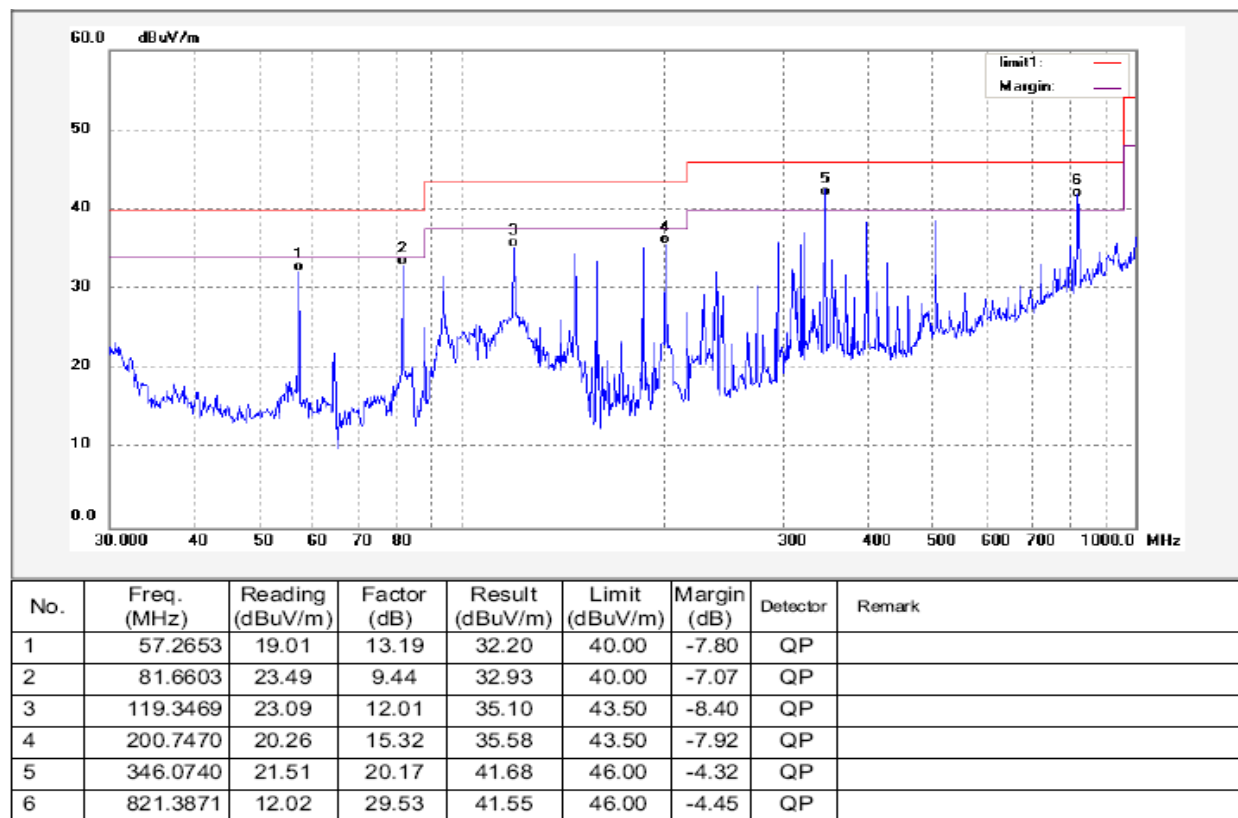
FCC ID: YVV-AEE18192021

Charging Mode (Without display):

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



Waltek Services (Shenzhen) Co., Ltd.

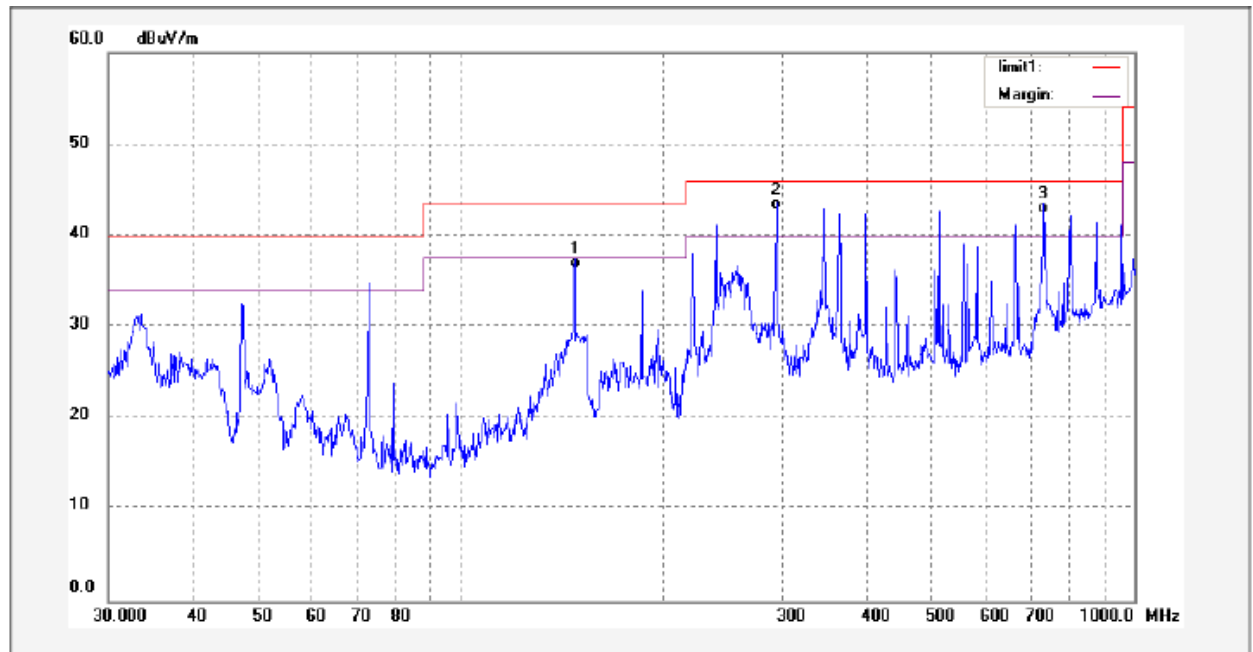
<http://www.waltek.com.cn>

FCC ID: YVV-AEE18192021



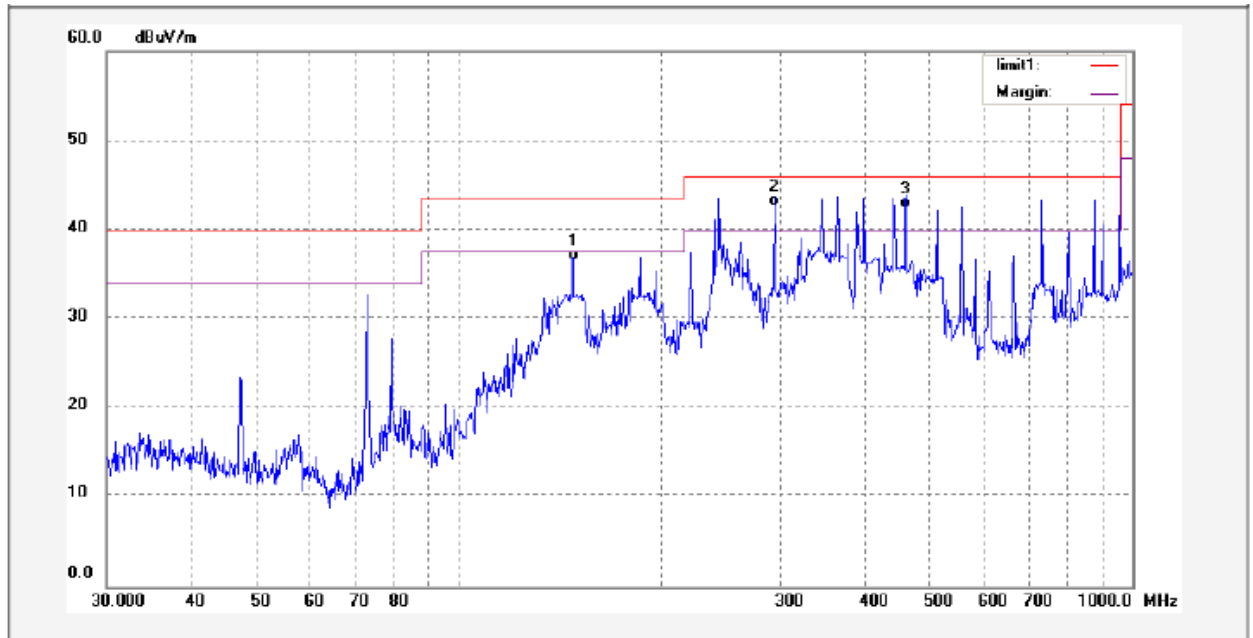
HDMI Mode (Without display):

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	147.8745	25.19	11.17	36.36	43.50	-7.14	QP	
2	294.4259	25.95	16.83	42.78	46.00	-3.22	QP	
3	734.0371	15.35	27.09	42.44	46.00	-3.56	QP	

Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	147.8746	25.38	11.17	36.55	43.50	-6.95	QP	
2	294.4259	25.87	16.83	42.70	46.00	-3.30	QP	
3	461.6313	21.11	21.27	42.38	46.00	-3.62	QP	

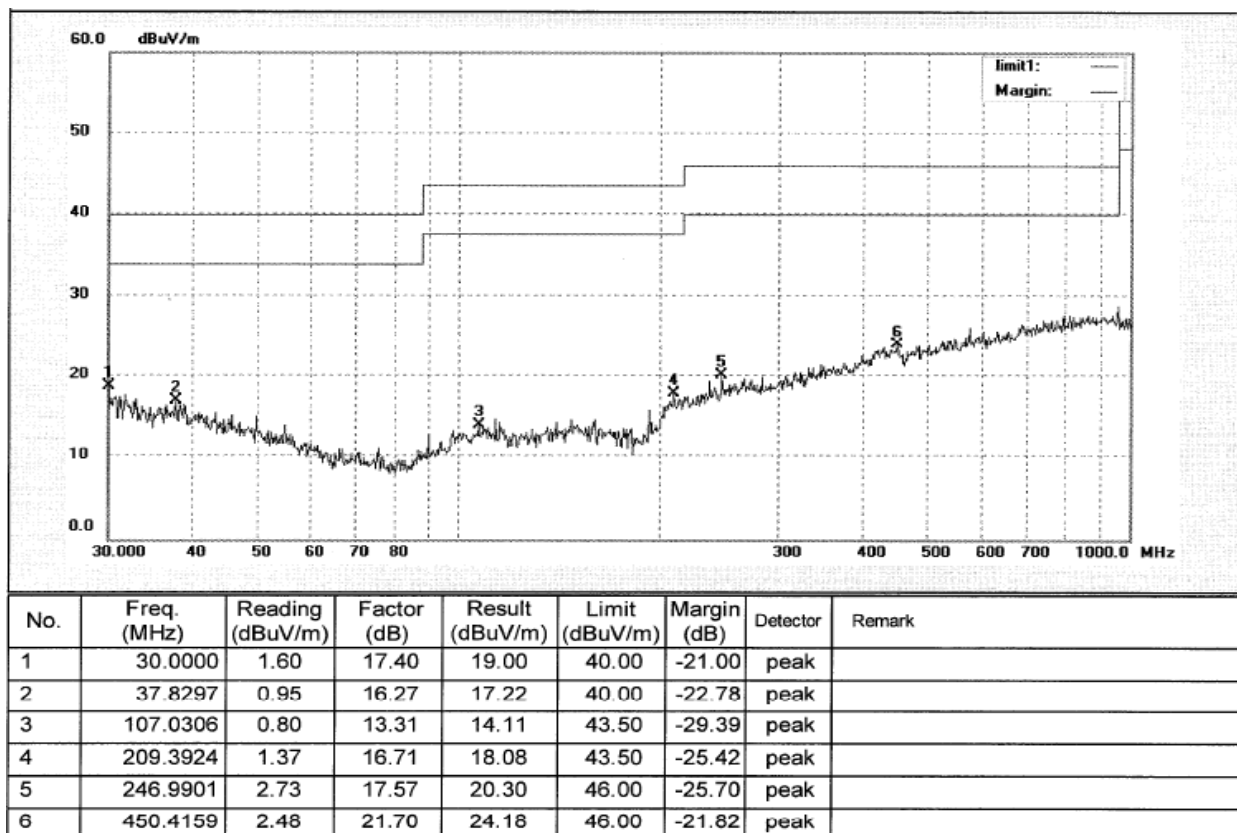
Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

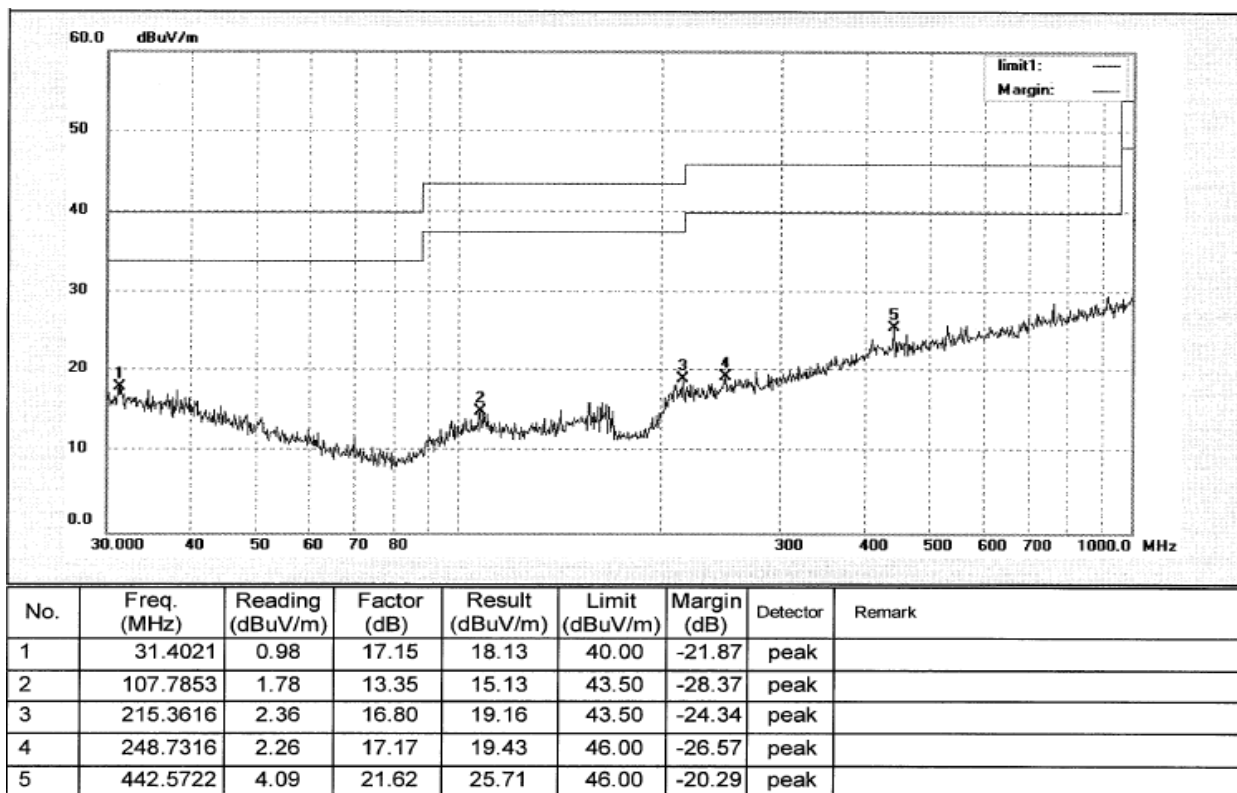
FCC ID: YVV-AEE18192021

RX Mode:

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

FCC ID: YVV-AEE18192021

### 5.3 Radiation Emission For Above 1000MHz

Test Requirement.....	:	FCC PART 15, SUBPART B
Test Method.....	:	ANSI C63.4
Test Limit.....	:	FCC PART 15, SUBPART B Section 15.109
Test Result.....	:	Pass
Frequency Range .....	:	1000MHz—2000MHz(According to the PART 15,Section 33b ))
Class.....	:	Class B

#### 5.3.1 E.U.T. Operation

##### Operating Environment:

Temperature.....	:	23.2°C
Humidity .....	:	33.1%RH
Atmospheric Pressure .....	:	101.3Kbar

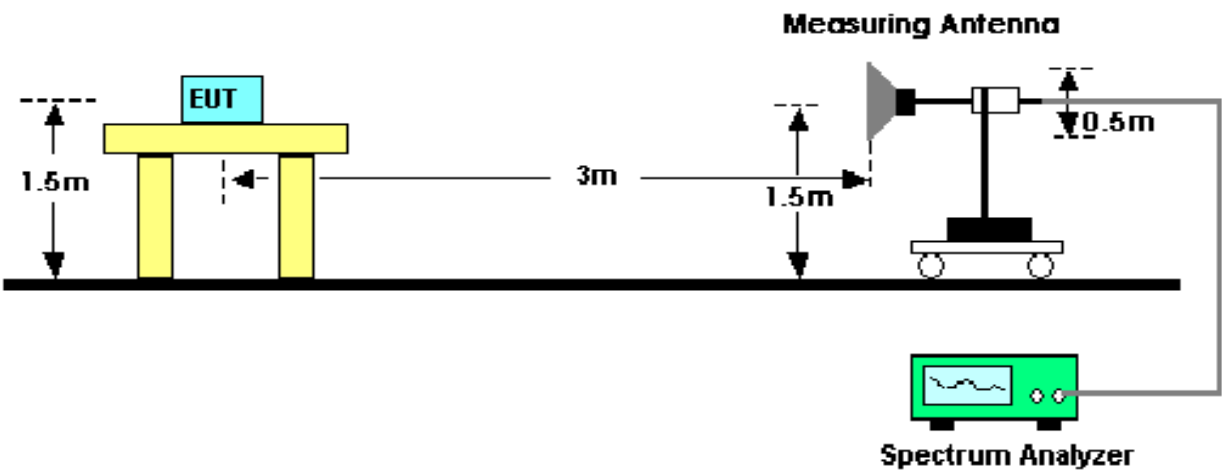
##### EUT Operation:

Input Voltage.....	:	DC 3.7V (via built-in Li-ion battery)
Operating Mode.....	:	1. Recording mode with LCD display (battery operated only) 2. AV output mode without LCD display (battery operated only) 3. HDMI mode without LCD display (battery operated only) 4. Wireless receiving mode (battery operated only)

Remark.....	:	For Wireless receiving mode, a typical signal or an unmodulated CW signal at the operating frequency of the EUT shall be supplied to the EUT for all measurements. Such a signal may be supplied by either a signal generator and an antenna inclose proximity to the EUT or directly conducted into the antenna terminals of the EUT.  The signal level shall be sufficient to stabilize the local oscillator of the EUT.
-------------	---	--

5.3.2 Block Diagram of Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the Fcc part 15, Subpart B section 109.



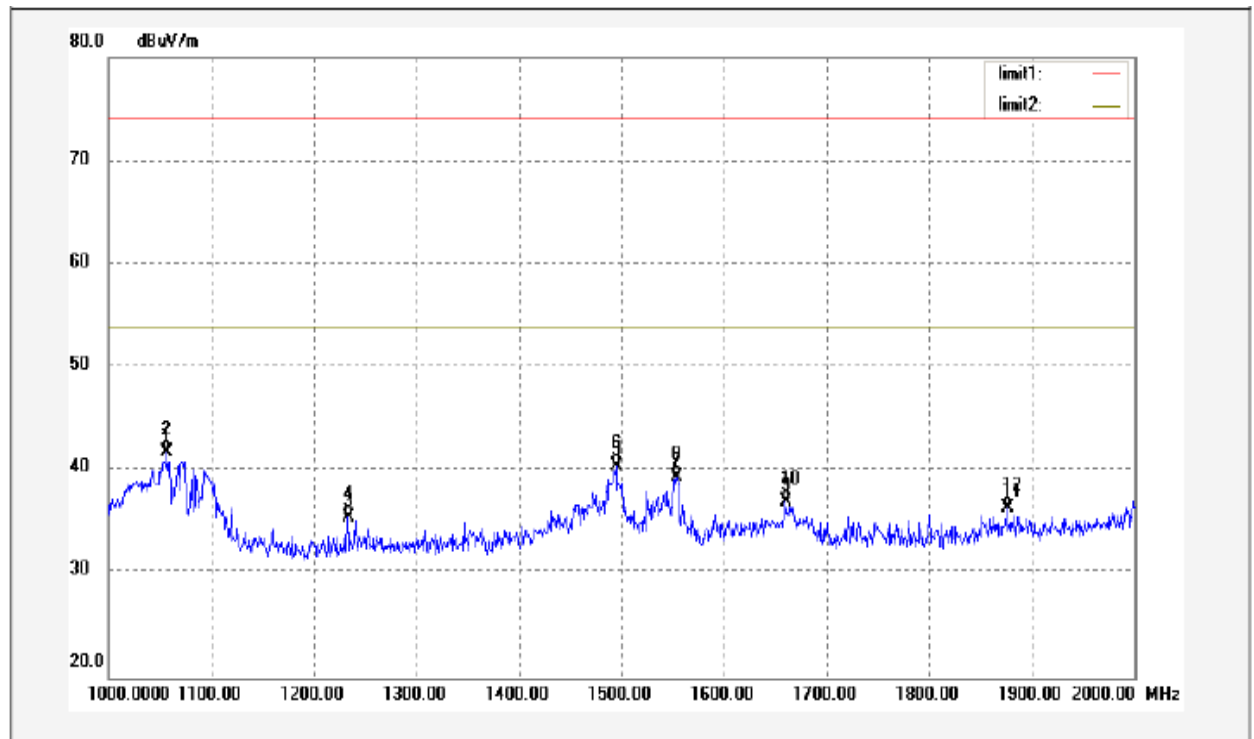
5.3.3 Measurement Data

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705–108	1000
108–500	2000
500–1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower.

### 5.3.4 Radiation Emission Data above 1GHz

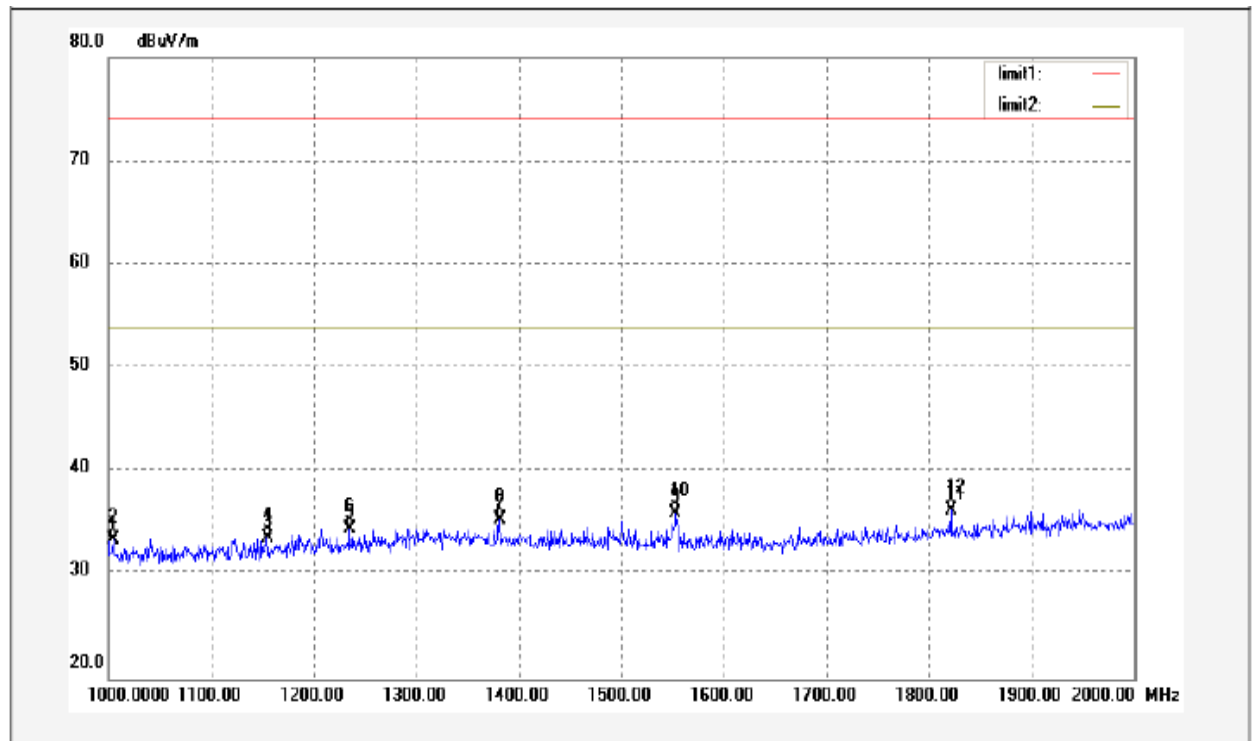
REC Mode(with display):

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1057.114	57.07	-15.26	41.81	74.00	-32.19	peak	
2	1057.114	57.07	-15.26	41.81	54.00	-12.19	AVG	
3	1232.465	49.58	-14.10	35.48	74.00	-38.52	peak	
4	1232.465	49.58	-14.10	35.48	54.00	-18.52	AVG	
5	1494.990	54.40	-13.97	40.43	74.00	-33.57	peak	
6	1494.990	54.40	-13.97	40.43	54.00	-13.57	AVG	
7	1554.108	53.46	-14.00	39.46	74.00	-34.54	peak	
8	1554.108	53.46	-14.00	39.46	54.00	-14.54	AVG	
9	1659.319	51.09	-14.03	37.06	74.00	-36.94	peak	
10	1659.319	51.09	-14.03	37.06	54.00	-16.94	AVG	
11	1875.752	49.27	-12.89	36.38	74.00	-37.62	peak	
12	1875.752	49.27	-12.89	36.38	54.00	-17.62	AVG	

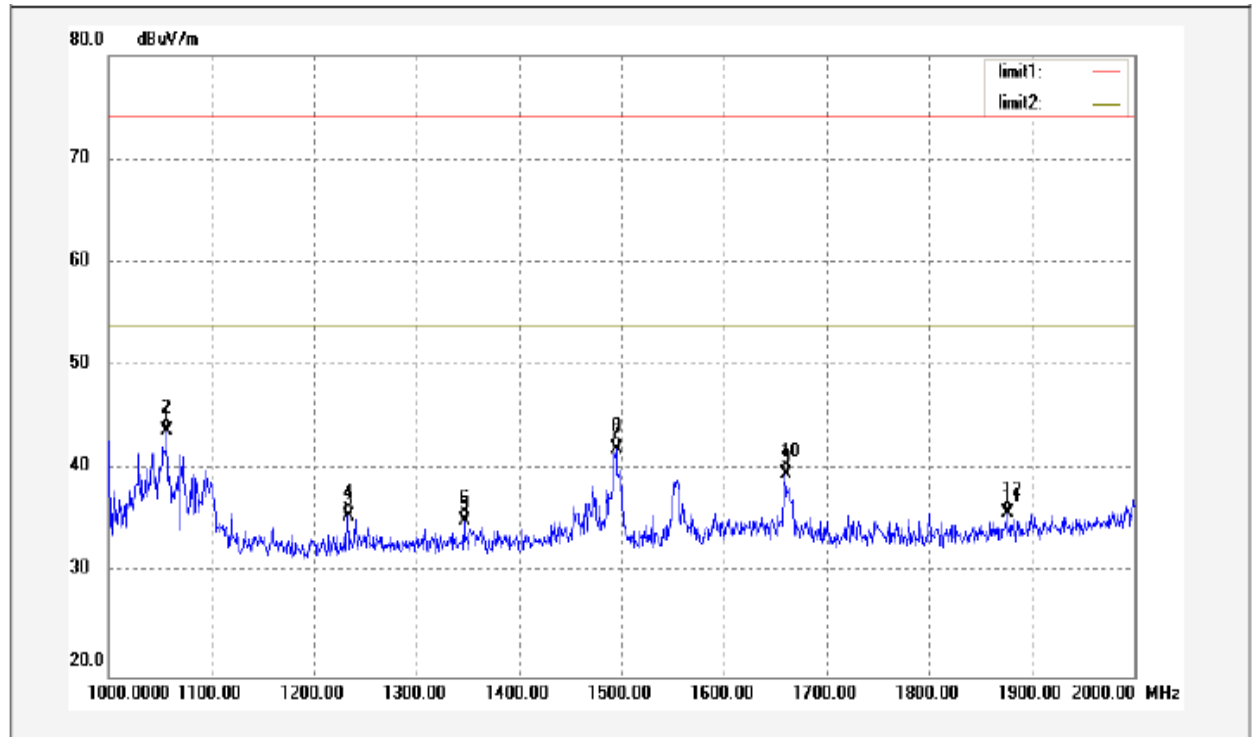
Antenna Polarization: Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1004.008	48.53	-15.10	33.43	74.00	-40.57	peak	
2	1004.008	48.53	-15.10	33.43	54.00	-20.57	AVG	
3	1154.309	48.40	-14.83	33.57	74.00	-40.43	peak	
4	1154.309	48.40	-14.83	33.57	54.00	-20.43	AVG	
5	1234.469	48.56	-14.08	34.48	74.00	-39.52	peak	
6	1234.469	48.56	-14.08	34.48	54.00	-19.52	AVG	
7	1380.762	49.16	-13.78	35.38	74.00	-38.62	peak	
8	1380.762	49.16	-13.78	35.38	54.00	-18.62	AVG	
9	1553.106	49.92	-14.00	35.92	74.00	-38.08	peak	
10	1553.106	49.92	-14.00	35.92	54.00	-18.08	AVG	
11	1821.643	49.49	-13.24	36.25	74.00	-37.75	peak	
12	1821.643	49.49	-13.24	36.25	54.00	-17.75	AVG	

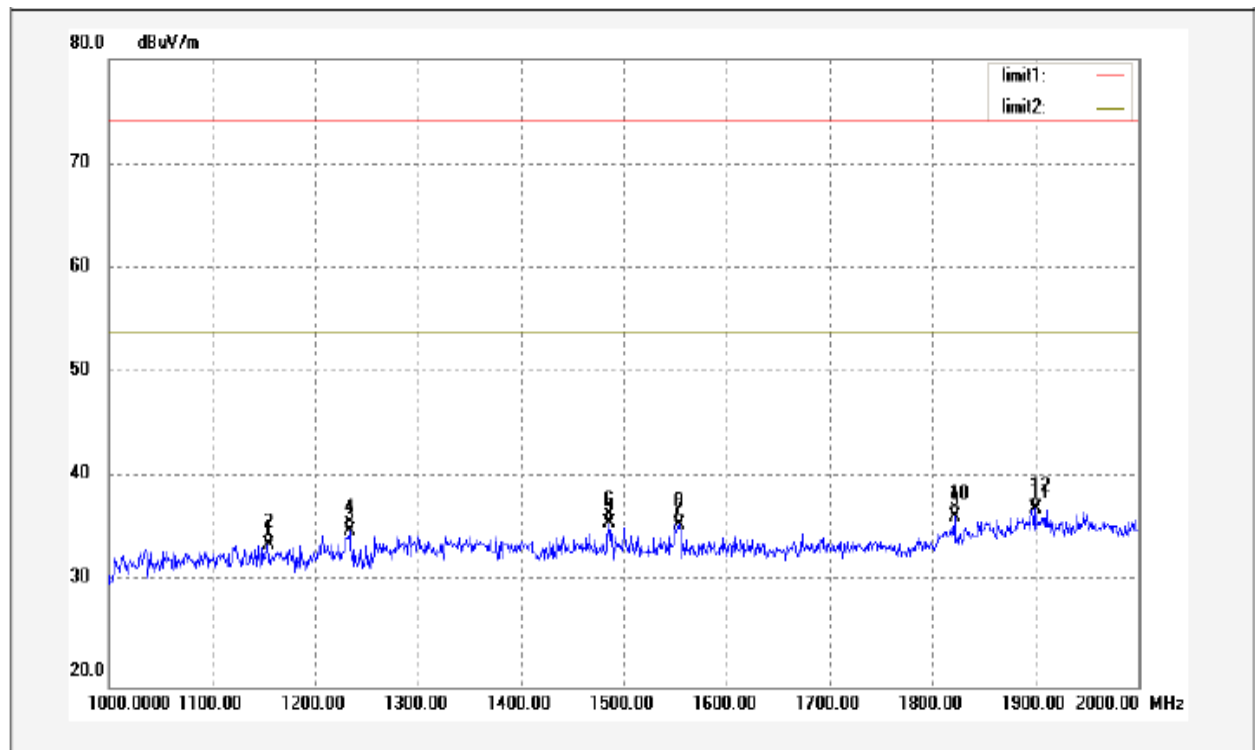
HDMI Mode(without display):

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1057.114	59.07	-15.26	43.81	74.00	-30.19	peak	
2	1057.114	59.07	-15.26	43.81	54.00	-10.19	AVG	
3	1232.465	49.58	-14.10	35.48	74.00	-38.52	peak	
4	1232.465	49.58	-14.10	35.48	54.00	-18.52	AVG	
5	1346.693	48.75	-13.62	35.13	74.00	-38.87	peak	
6	1346.693	48.75	-13.62	35.13	54.00	-18.87	AVG	
7	1494.990	55.90	-13.97	41.93	74.00	-32.07	peak	
8	1494.990	55.90	-13.97	41.93	54.00	-12.07	AVG	
9	1659.319	53.59	-14.03	39.56	74.00	-34.44	peak	
10	1659.319	53.59	-14.03	39.56	54.00	-14.44	AVG	
11	1875.752	48.77	-12.89	35.88	74.00	-38.12	peak	
12	1875.752	48.77	-12.89	35.88	54.00	-18.12	AVG	

Antenna Polarization: Horizontal

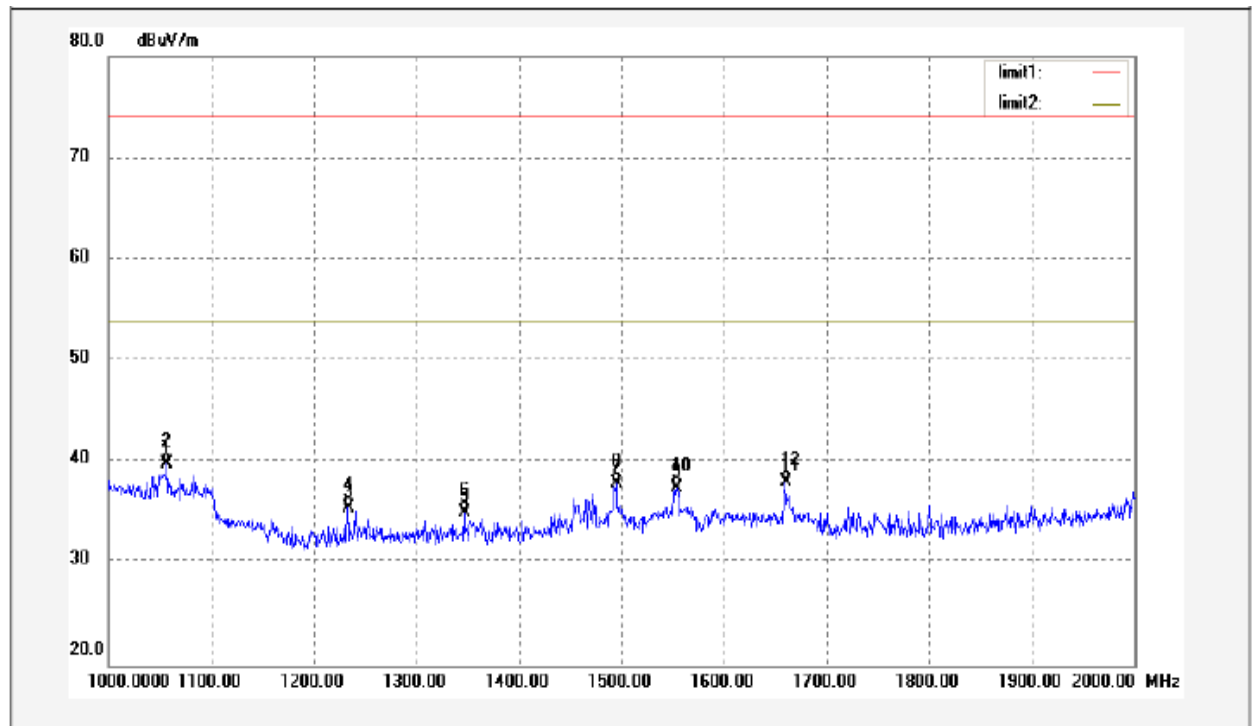


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1154.309	48.39	-14.83	33.56	74.00	-40.44	peak	
2	1154.309	48.39	-14.83	33.56	54.00	-20.44	AVG	
3	1233.466	49.07	-14.09	34.98	74.00	-39.02	peak	
4	1233.466	49.07	-14.09	34.98	54.00	-19.02	AVG	
5	1484.970	49.54	-13.94	35.60	74.00	-38.40	peak	
6	1484.970	49.54	-13.94	35.60	54.00	-18.40	AVG	
7	1554.108	49.50	-14.00	35.50	74.00	-38.50	peak	
8	1554.108	49.50	-14.00	35.50	54.00	-18.50	AVG	
9	1821.643	49.49	-13.24	36.25	74.00	-37.75	peak	
10	1821.643	49.49	-13.24	36.25	54.00	-17.75	AVG	
11	1899.800	49.78	-12.73	37.05	74.00	-36.95	peak	
12	1899.800	49.78	-12.73	37.05	54.00	-16.95	AVG	



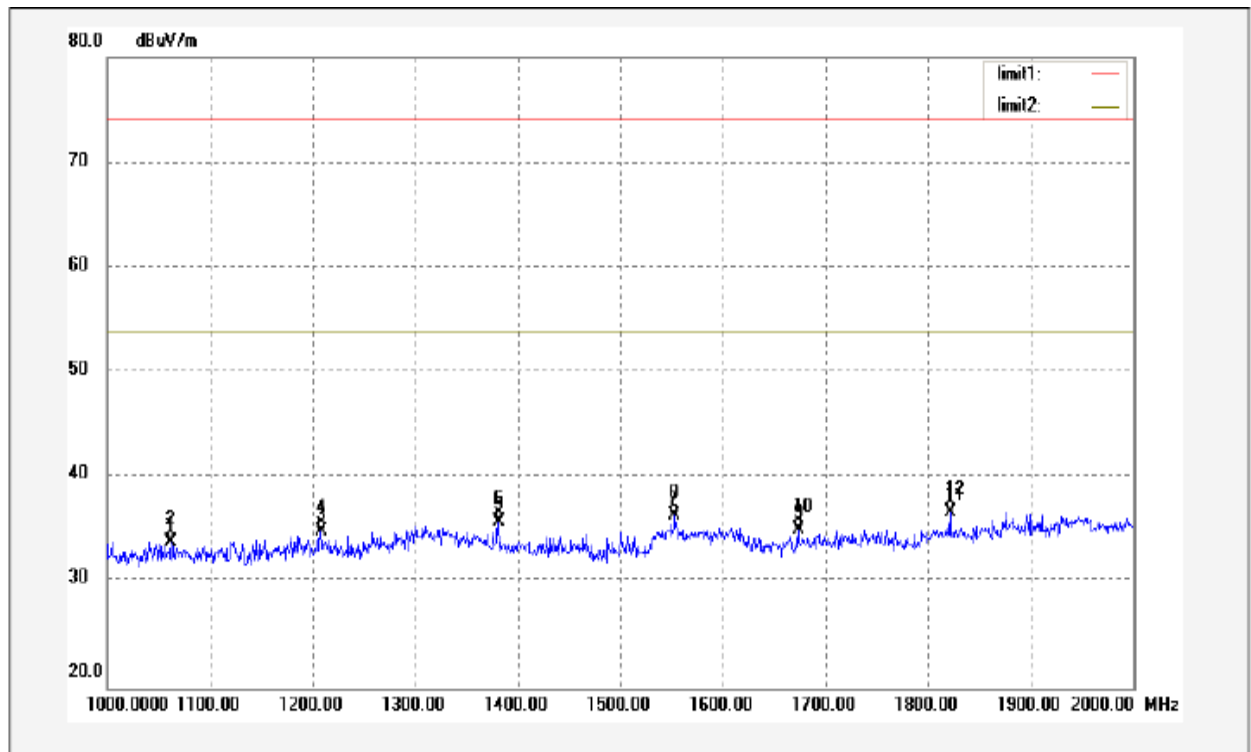
AV Out Mode(without display):

Antenna Polarization: Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1057.114	55.07	-15.26	39.81	74.00	-34.19	peak	
2	1057.114	55.07	-15.26	39.81	54.00	-14.19	AVG	
3	1232.465	49.58	-14.10	35.48	74.00	-38.52	peak	
4	1232.465	49.58	-14.10	35.48	54.00	-18.52	AVG	
5	1346.693	48.75	-13.62	35.13	74.00	-38.87	peak	
6	1346.693	48.75	-13.62	35.13	54.00	-18.87	AVG	
7	1494.990	51.90	-13.97	37.93	74.00	-36.07	peak	
8	1494.990	51.90	-13.97	37.93	54.00	-16.07	AVG	
9	1554.108	51.46	-14.00	37.46	74.00	-36.54	peak	
10	1554.108	51.46	-14.00	37.46	54.00	-16.54	AVG	
11	1659.319	52.09	-14.03	38.06	74.00	-35.94	peak	
12	1659.319	52.09	-14.03	38.06	54.00	-15.94	AVG	

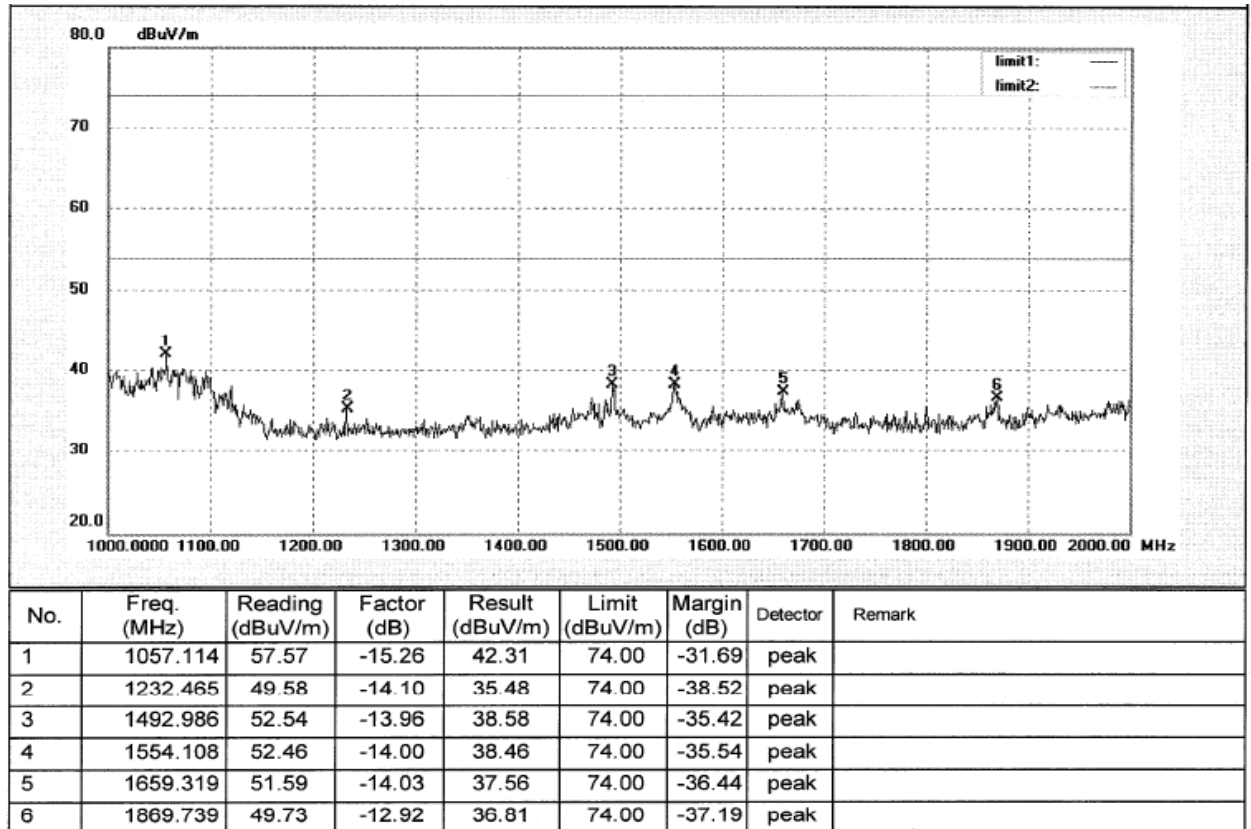
Antenna Polarization: Horizontal



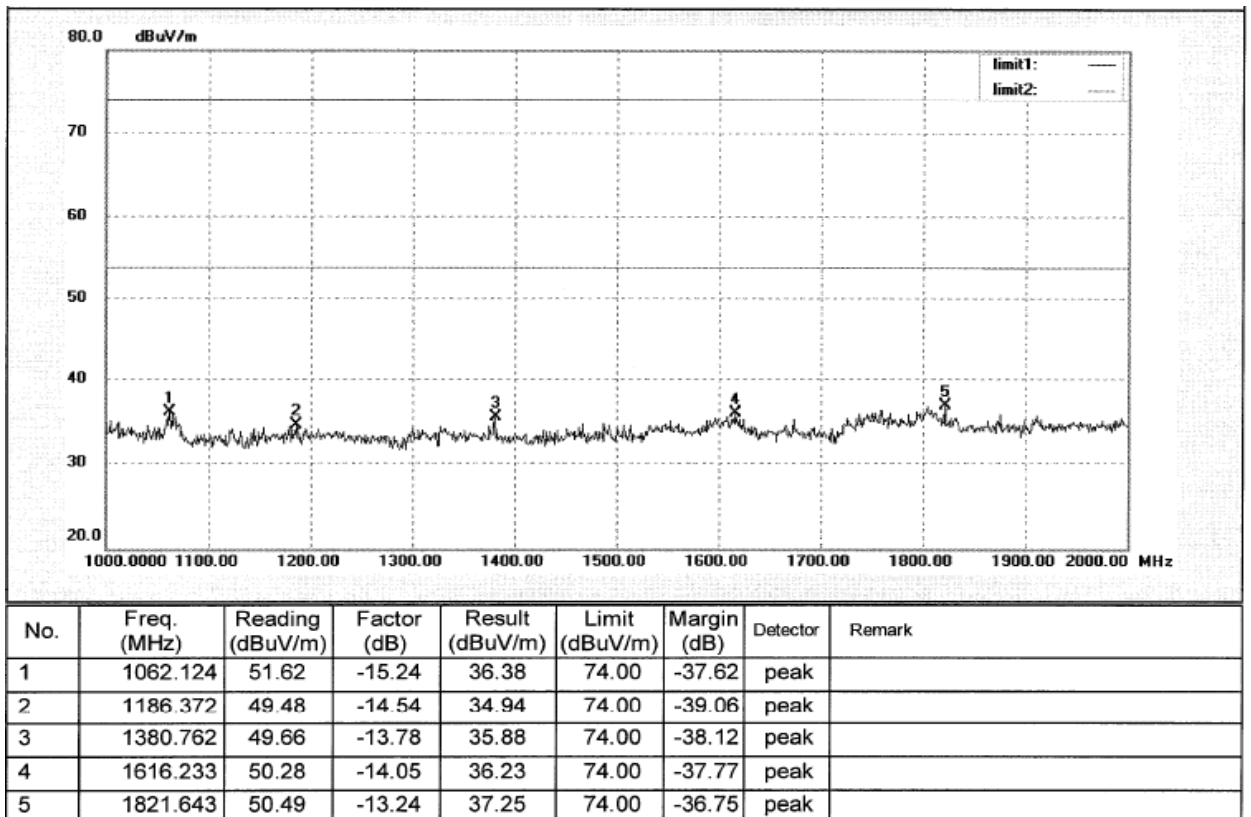
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	1062.124	49.12	-15.24	33.88	74.00	-40.12	peak	
2	1062.124	49.12	-15.24	33.88	54.00	-20.12	AVG	
3	1207.415	49.30	-14.34	34.96	74.00	-39.04	peak	
4	1207.415	49.30	-14.34	34.96	54.00	-19.04	AVG	
5	1380.762	49.66	-13.78	35.88	74.00	-38.12	peak	
6	1380.762	49.66	-13.78	35.88	54.00	-18.12	AVG	
7	1553.106	50.42	-14.00	36.42	74.00	-37.58	peak	
8	1553.106	50.42	-14.00	36.42	54.00	-17.58	AVG	
9	1673.347	49.05	-13.96	35.09	74.00	-38.91	peak	
10	1673.347	49.05	-13.96	35.09	54.00	-18.91	AVG	
11	1821.643	49.99	-13.24	36.75	74.00	-37.25	peak	
12	1821.643	49.99	-13.24	36.75	54.00	-17.25	AVG	

RX Mode:

Antenna Polarization: Vertical



Antenna Polarization: Horizontal



Waltek Services (Shenzhen) Co., Ltd.

<http://www.waltek.com.cn>

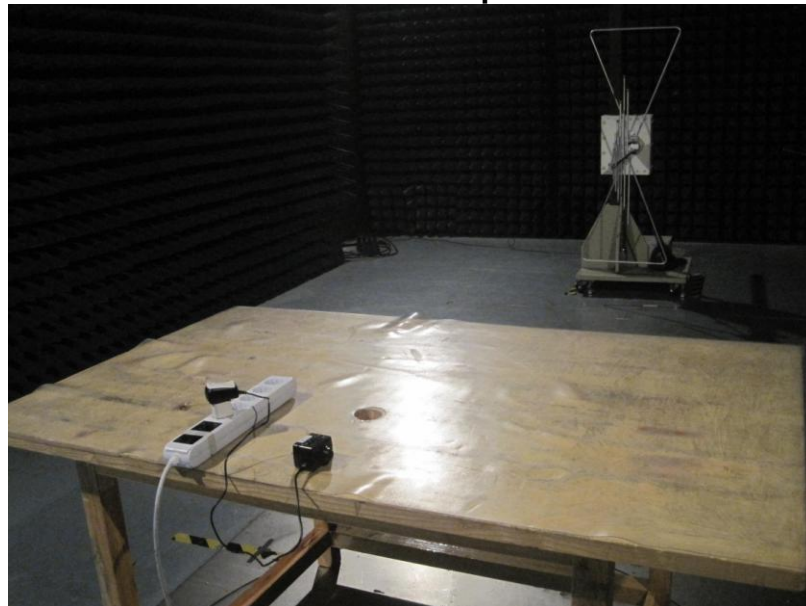
FCC ID: YVV-AEE18192021

## **6 Photographs – Test Setup**

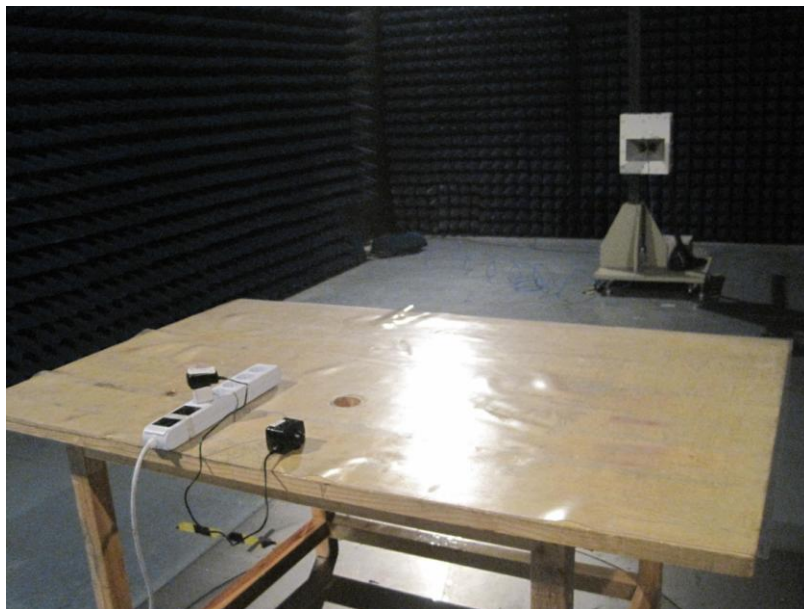
### **6.1 Photograph –Mains Terminals Disturbance Voltage Test Setup**



### **6.2 Photograph –Radiated Emission Test Setup 30MHz to 1GHz**



### 6.3 Photograph –Radiated Emission Test Setup Above 1GHz





## 7 Photographs – Constructional Details

### 7.1 EUT – External View



Model No.: SD20



Model No.: SD19



Model No.:SD18



Side View





Side View



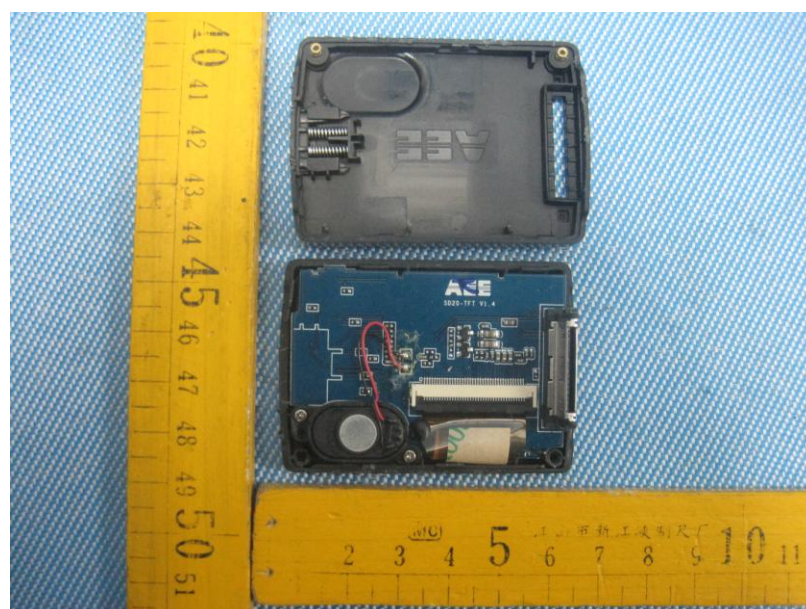
LCD Display



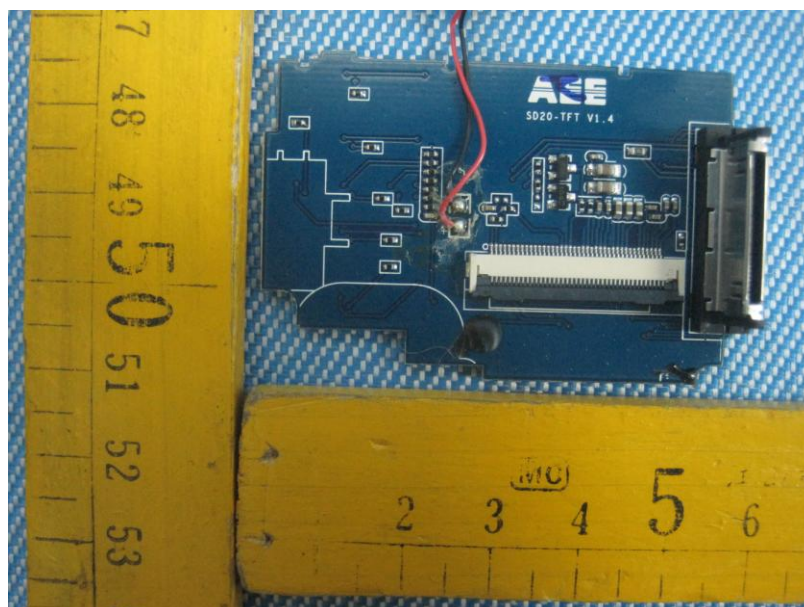
LCD Display

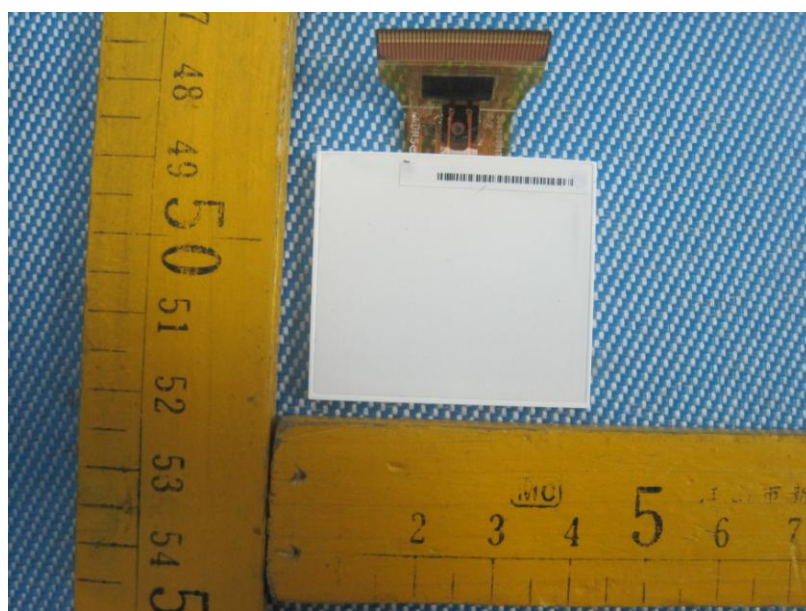
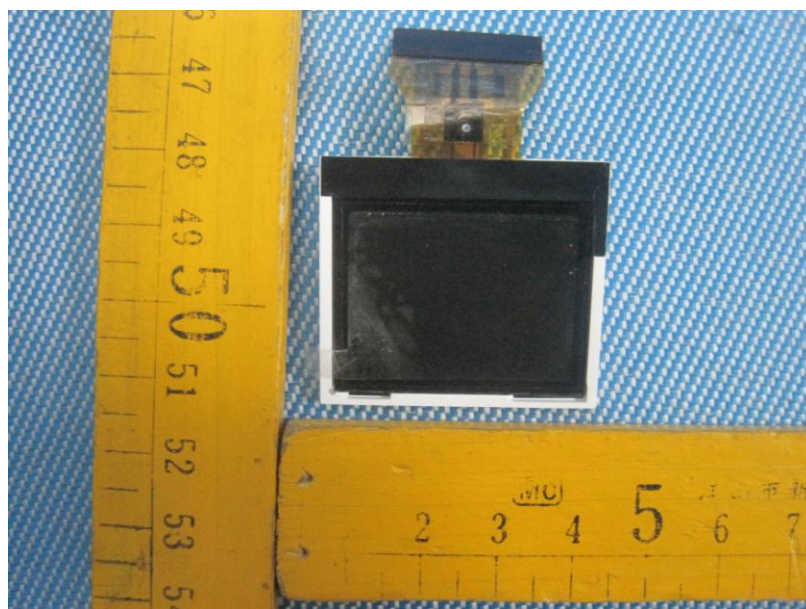


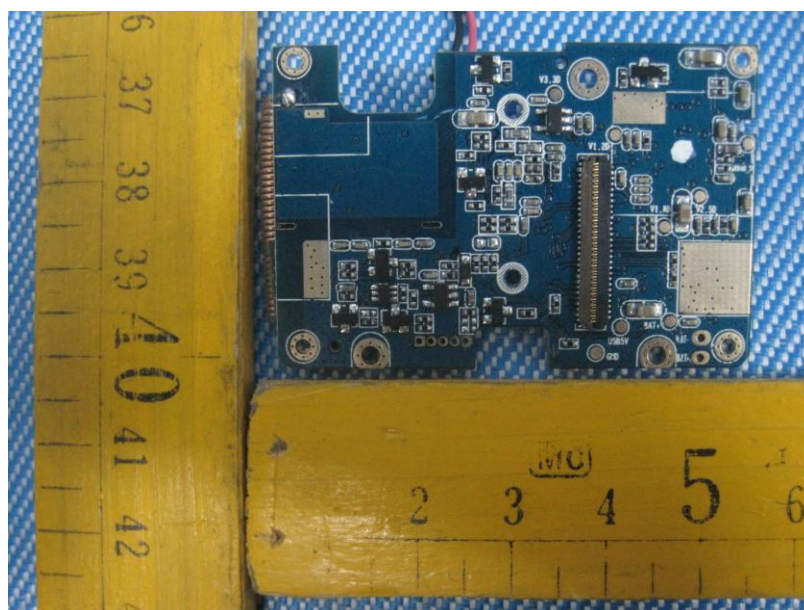
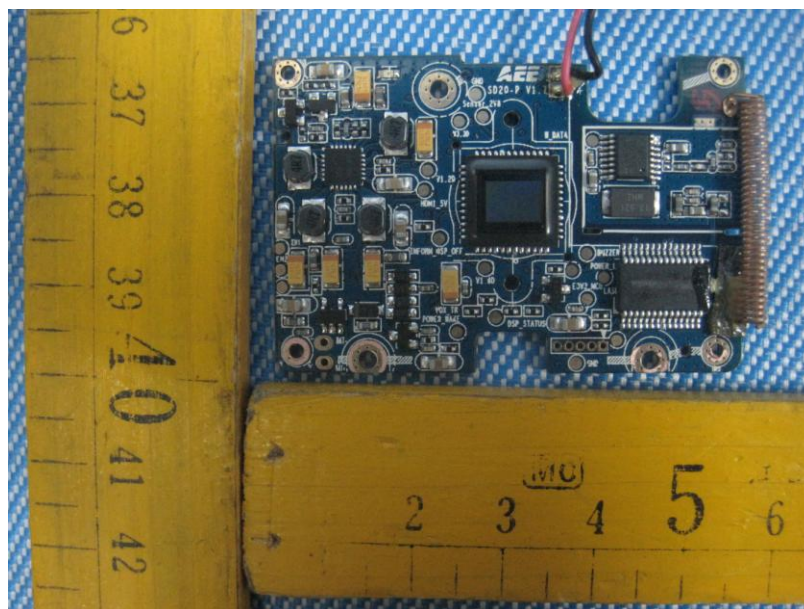
## 7.2 EUT – Internal View



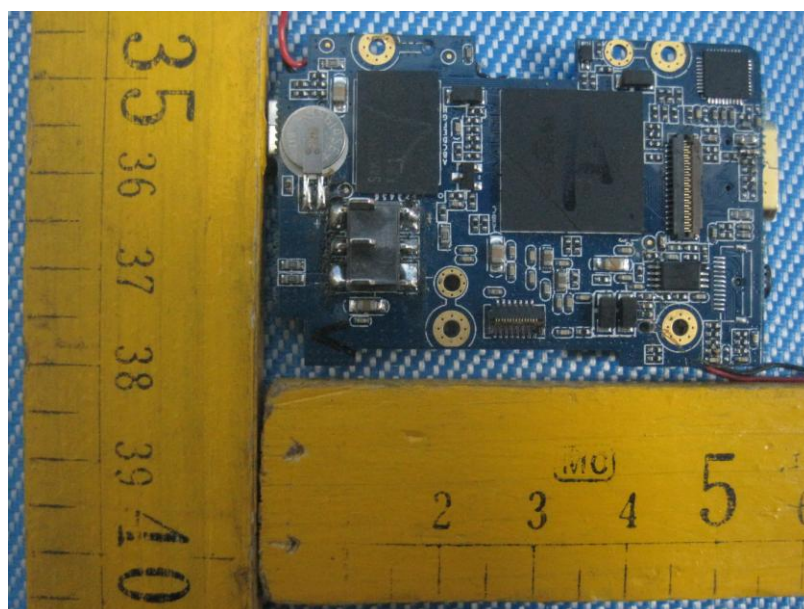
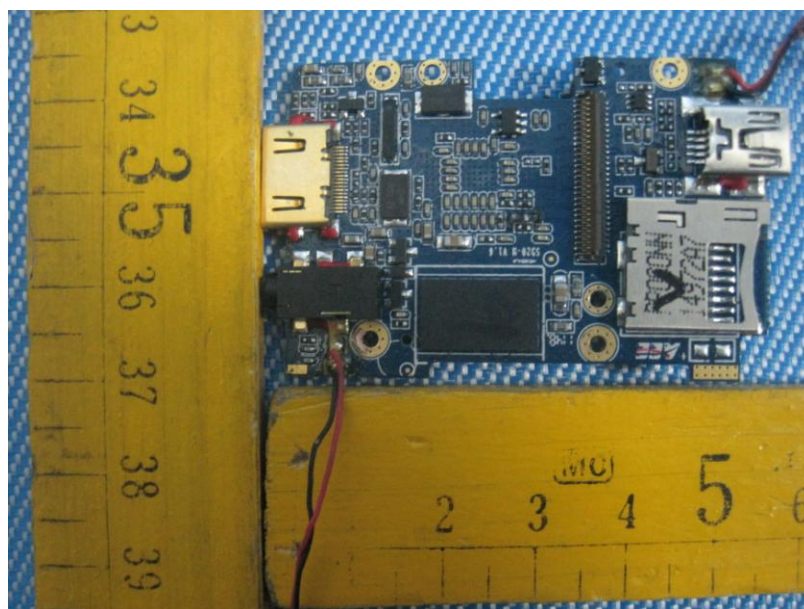


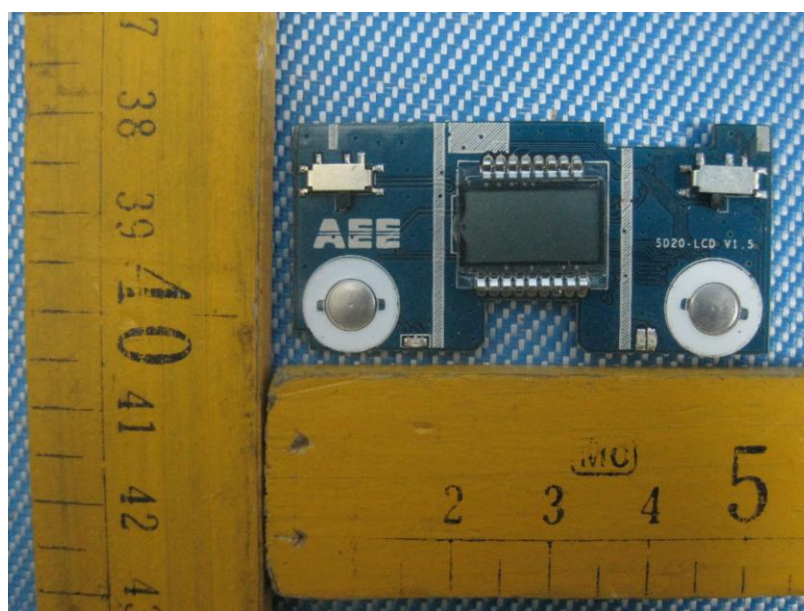
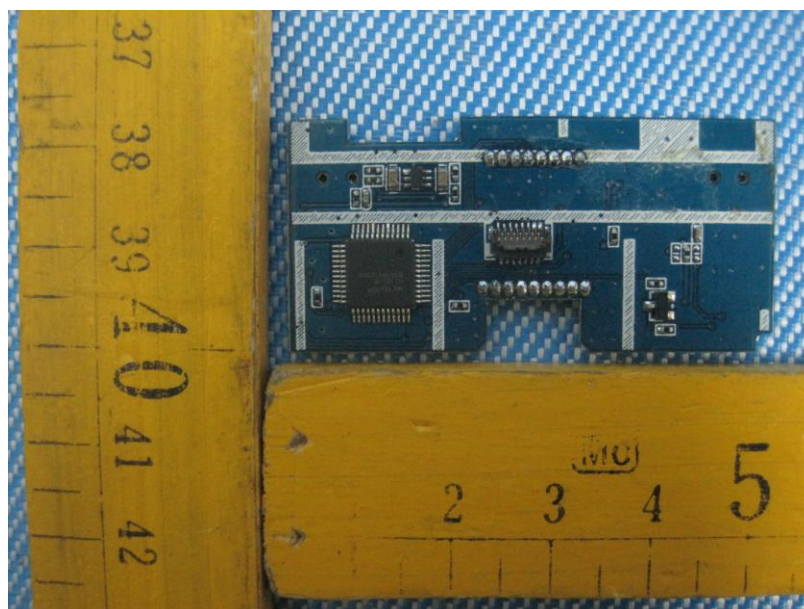










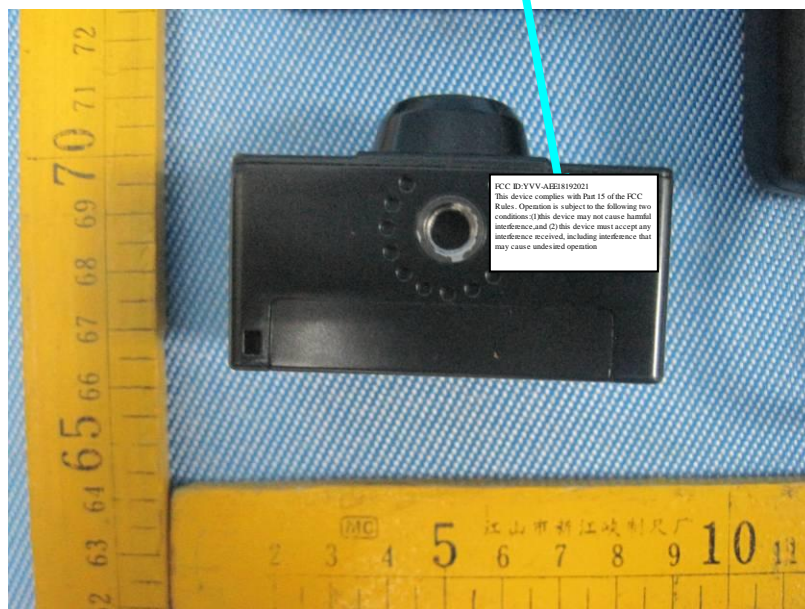


## 8 FCC ID Label

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. 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.

Proposed Label Location on EUT  
EUT Bottom View/proposed FCC Label Location



-----End of Report-----