



Waltek Services (Shenzhen) Co., Ltd

1/F, Fukangtai Building, West Baima Rd., Songgang Street,
Baoan District, Shenzhen 518105, China

TEST REPORT

Report No.: WT12064292SSF

Applicant : China Industries Ltd. T/A Wow! Stuff.
Address of Applicant : Creative Industries Centre, Wolverhampton Science Park,
Wolverhampton, WV109TG,UK

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : Air Swimmers Shark & Air Swimmers Clown Fish
& Air Swimmers-Piranha & Air Swimmers- Killer Whale
Style/model No : AR-1001 & AR-1002 & AR-1008 & AR-1003
Operation Frequency : 27.145MHz
FCC ID : YCR-AR-SWR-3C
Sample Receiving Date : July 03, 2012
Test Period : July 03, 2012 to July 26, 2012
Test Requested : In accordance with the FCC Part 15 Subpart C,Section
15.227:2010
Test Method : ANSI C63.4: 2003
Test Conclusion : Based on the performed tests on the submitted samples,
the results comply with the FCC Part 15 C Section 15.227
requirements.

***** For Further Details, Please Refer to the Following Page(s) *****

Signed for and on behalf of
Waltek Services (Shenzhen) Co., Ltd.

Philo.Zhong
EMC Laboratory Manager

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2 Test Summary

Test Item	Section in CFR 47	Result
Radiated Emission (25MHz to 1GHz)	Section 15.227:2010	Passed
Occupied Bandwidth	Section 15.227:2010	Passed

Remark:

Passed: The EUT complies with the essential requirements in the standard.

Failed: The EUT does not comply with the essential requirements in the standard.

N/A: Not Applicable.

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3 General Information

3.1 Client Information

Applicant : China Industries Ltd. T/A Wow! Stuff.
Address of Applicant : Creative Industries Centre, Wolverhampton Science Park,
Wolverhampton, WV109TG,UK
Manufacturer : China Industries Ltd. T/A Wow! Stuff.
Address of Manufacturer : Creative Industries Centre, Wolverhampton Science Park,
Wolverhampton, WV109TG,UK

3.2 General Description of E.U.T.

Product Name : Air Swimmers Shark & Air Swimmers Clown Fish
& Air Swimmers-Piranha & Air Swimmers- Killer Whale
Trade Name : N/A
Style/model No. : AR-1001 & AR-1002 & AR-1008 & AR-1003
Model Difference : The circuit of all models are identical. The PCB layout and
appearance of AR-1003 are different compared with other
three models. AR-1001 and AR-1003 are the test samples.
Operation Frequency : 27.145MHz
Labeled Age Grading : 8+
Power Supply : Battery DC 9.0V
Power Cord : N/A

3.3 E.U.T. Environment and test modes

Operating Environment :
Temperature : 24.0 °C
Humidity : 52 % RH
Atmospheric Pressure : 1016 mbar
Test mode :
Transmitting mode : Keep the EUT in continuous transmitting mode
Receiving mode : N/A

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3.4 Test Location

All Emission tests were performed at:
Waltek Services(Shenzhen) Co., Ltd. at 1/F, Fukangtai Building, West Baima Rd., Songgang Street, Baoan District, Shenzhen 518105, China.

3.5 Other Information Requested by the Customer

None.

3.6 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 No.: IC7760A, July 10, 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.

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4 Equipment Used during Test

4.1 Equipments List

Conducted Emission					
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Status
1	Test Receiver	ROHDE&SCHWARZ	ESCI	101155	Valid
2	Two-Line V-Network	ROHDE&SCHWARZ	ENV216	100115	Valid
3m Semi-anechoic Chamber for Radiation					
Item	Equipment	Manufacturer	Model No.	Serial No.	Calibration Status
1	EMC Analyzer	Agilent	E7405A	MY45114943	Valid
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Valid
3	Trilog Broadband Antenne	SCHWARZBECK	VULB9163	336	Valid
4	Broad-bandHorn Antenna	SCHWARZBECK	VULB9163	667	Valid
5	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-148	Valid
6	10m Coaxia Cable with N- plug	SCHWARZBECK	AK 9515 H	-	Valid
7	10m 50 Ohm Coaxial Cable with N-plug	SCHWARZBECK	AK 9513	-	Valid
8	Positioning Controller	C&C LAB	CC-C-IF	-	Valid
9	Color Monitor	SUNSPO	SP-14C	-	Valid

4.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (Bilog antenna 30M~1000MHz)
	± 4.74 dB (Horn antenna 1000M~25000MHz)
Conducted Spurious Emissions test	± 2.46 dB (AC mains 150KHz~30MHz)

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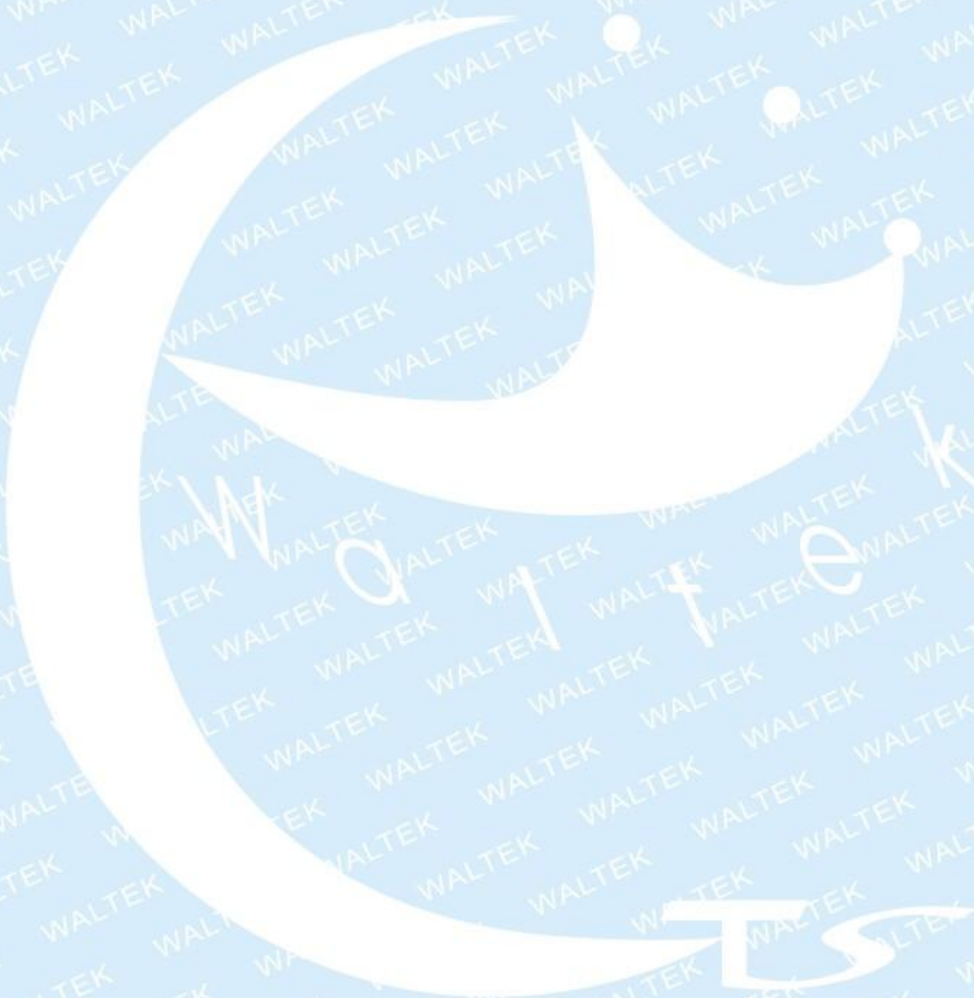
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4.3 Equipments Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.



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5 Test Result & Measurement Data	
5.1 Radiated Emission	
Test Requirement:	: FCC Part15 C Section 15.227
Test Method:	: ANSI C63.4: 2003
Measurement Distance:	: 3m (Semi-Anechoic Chamber)
Requirements	Carrier Power will not exceed 80dBuV/m at 3m (Average).
	Out of band emissions shall not exceed:
	40.0 dBuV/m between 30MHz & 88MHz
	43.5 dBuV/m between 88MHz & 216MHz
	46.0 dBuV/m between 216MHz & 960MHz
	54.0 dBuV/m between 960MHz & 1000MHz
Detector	: 25MHz to 30MHz RBW=9KHz VBW=30KHz 30MHz to 1000MHz RBW=100KHz VBW=300KHz Above 1000MHz RBW=1MHz VBW=3MHz
Test Procedure	: 1. The EUT is placed on a turntable, which is 0.8m above ground plane. 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance. 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. 6. Repeat above procedures until the measurements for all frequencies are complete. 7. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report. 8. New battery was used during the test.
Test Result	: The unit does meet the FCC Part 15 C Section 15.227 requirements.
27.145MHz Mode	
Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4: 2003, section 8.2.1. The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.	

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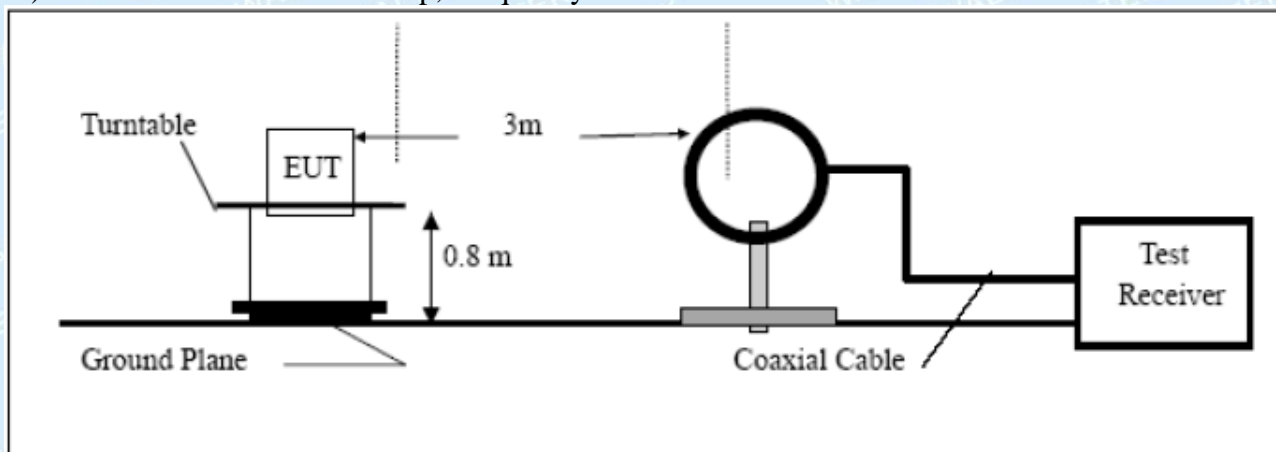
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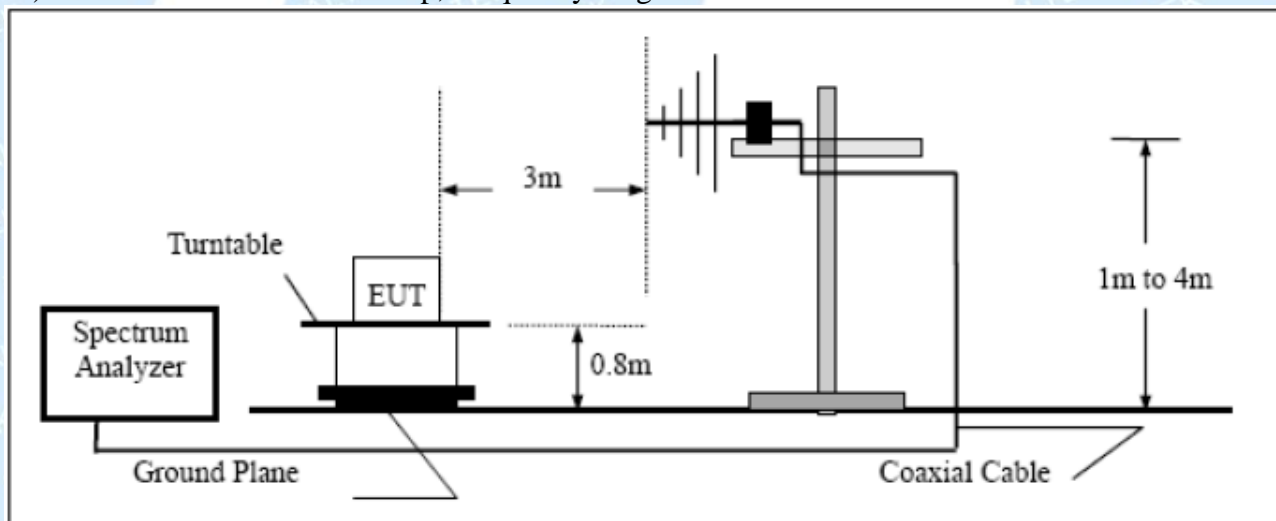
5.2 EUT Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4:2003.

a) Radiated Emission Test Setup, Frequency Below 30MHz



b) Radiated Emission Test Setup, Frequency range 30MHz ~ 1000MHz





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5.3 Spectrum Analyzer Setup

According to FCC Part15 Rules, the system was tested 25MHz to 1000MHz.

Below 30MHz

Sweep SpeedAuto
IF Bandwidth..... 10 KHz
Video Bandwidth10KHz
Resolution Bandwidth 10KHz

From 30MHz to 1000MHz

Sweep SpeedAuto
IF Bandwidth..... 120 KHz
Video Bandwidth100KHz
Quasi-Peak Adapter Bandwidth 120 KHz
Quasi-Peak Adapter ModeNormal
Resolution Bandwidth 120kHz

5.4 Test Result

Intentional emission

Mode: Continuous transmitting

Test Frequency (MHz)	Peak (dB μ V/m)		Limits (dB μ V/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
27.145	68.45	56.36	100.00	31.55	43.64

Test Frequency (MHz)	Average (dB μ V/m)		Limits (dB μ V/m)	Margin (dB)	
	Vertical	Horizontal		Vertical	Horizontal
27.145	65.63	54.52	80.00	14.37	25.48

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.

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Harmonics emissions**Mode: Continuous transmitting****Vertical**

No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	54.2900	23.25	20.29	43.54	46.00	-2.46	QP
2	81.4350	20.21	23.24	43.45	46.00	-2.55	QP

Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	54.2900	20.32	20.29	40.61	46.00	-5.39	QP
2	81.4350	18.25	23.24	41.49	46.00	-4.51	QP

Remark:

When the margin more than 10dB, the data would not show in the test report.

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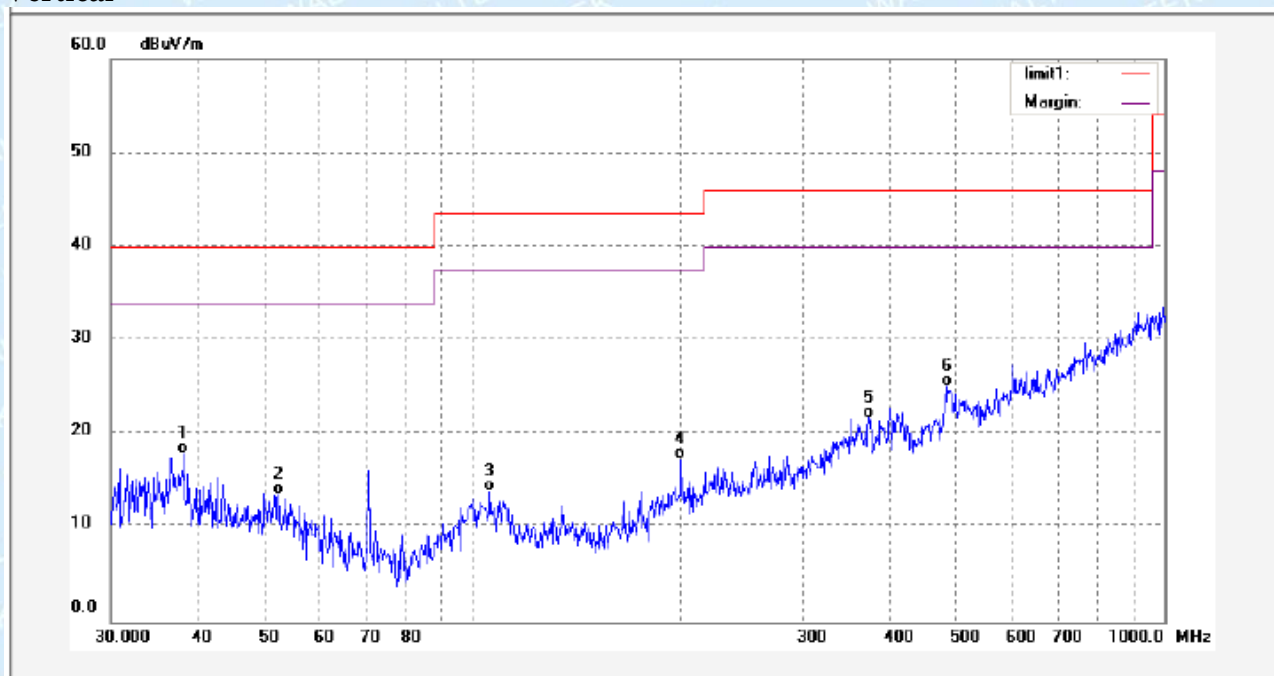
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Other emissions

Test sample:AR-1001

Mode: Continuous transmitting

Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	38.2305	1.32	16.63	17.95	40.00	-22.05	QP	
2	52.4498	-0.79	14.39	13.60	40.00	-26.40	QP	
3	105.9084	-0.36	14.16	13.80	43.50	-29.70	QP	
4	200.0432	1.90	15.39	17.29	43.50	-26.21	QP	
5	373.8861	1.42	20.33	21.75	46.00	-24.25	QP	
6	486.6136	0.43	24.72	25.15	46.00	-20.85	QP	

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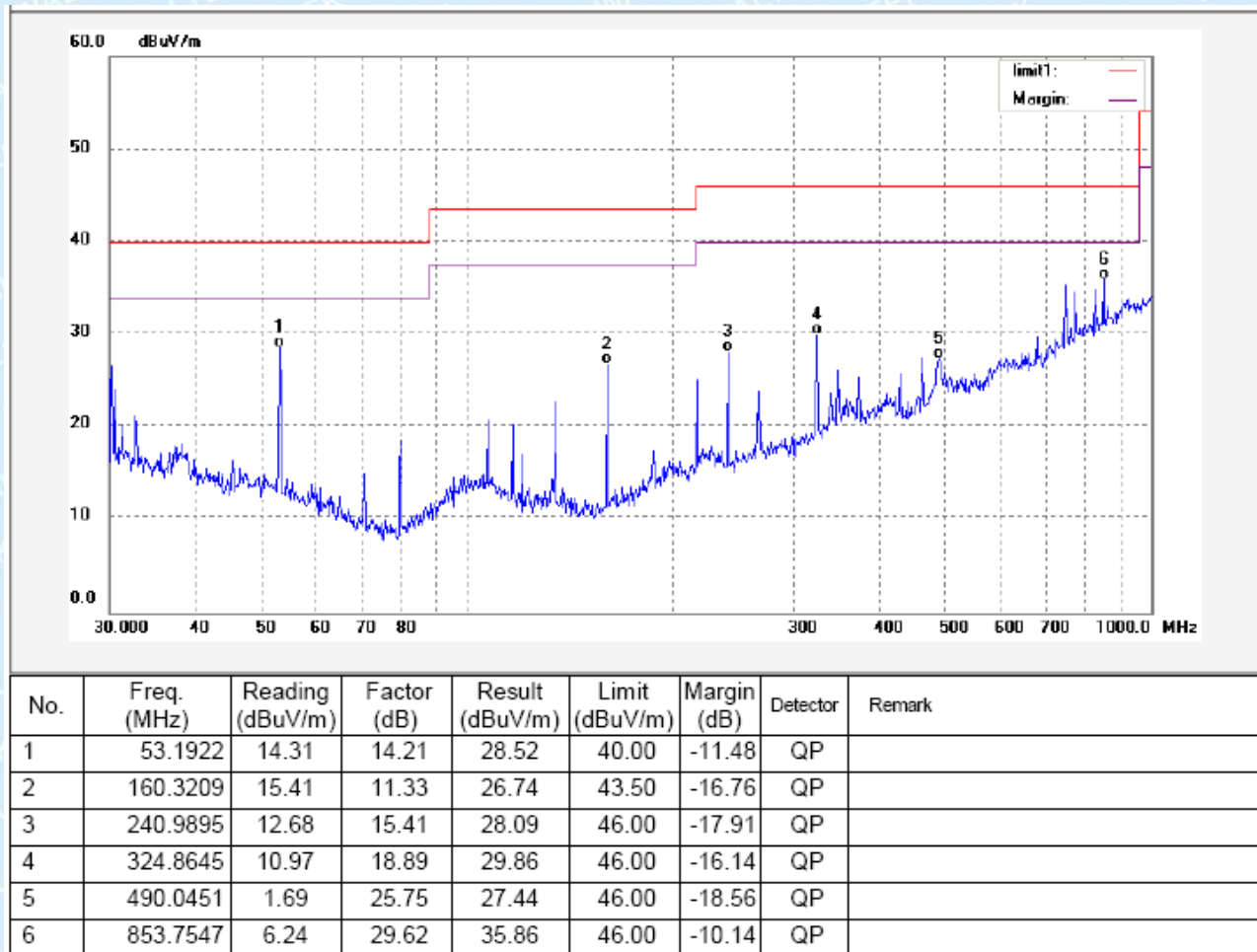


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Horizontal



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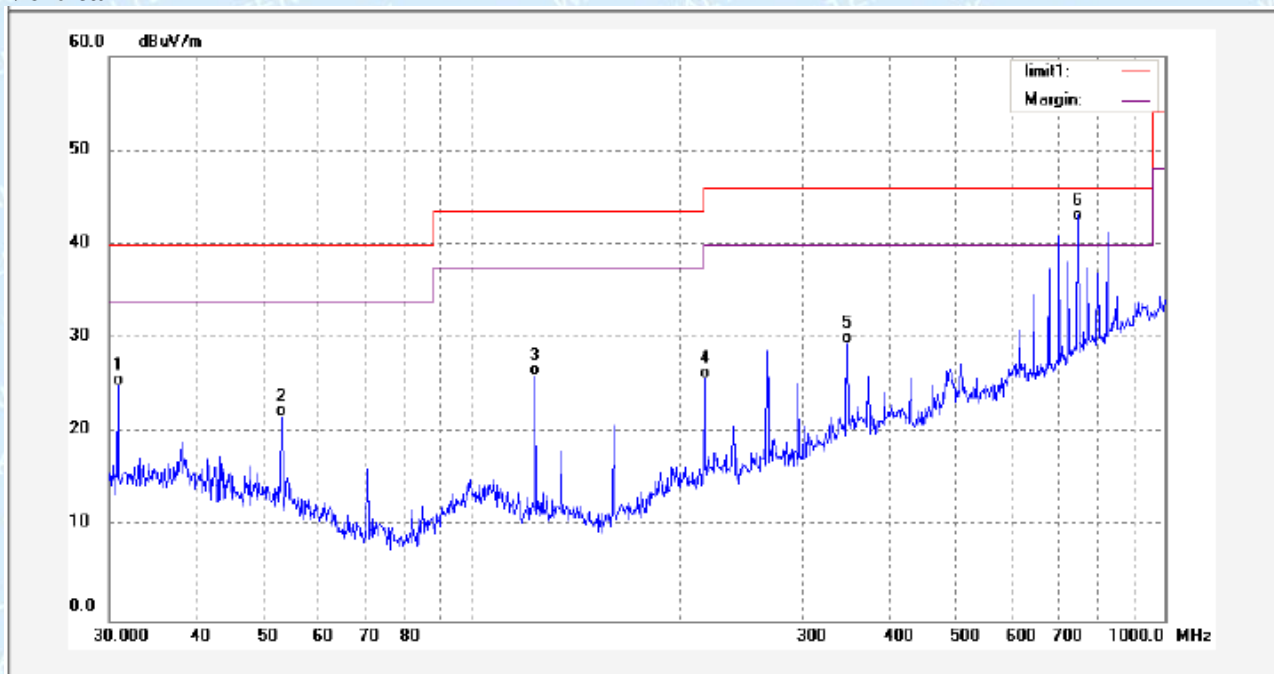
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Test sample:AR-1003

Mode: Continuous transmitting

Vertical



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	30.8552	8.71	16.34	25.05	40.00	-14.95	QP	
2	53.1922	7.54	14.21	21.75	40.00	-18.25	QP	
3	123.6150	14.43	11.66	26.09	43.50	-17.41	QP	
4	216.8803	10.23	15.50	25.73	46.00	-20.27	QP	
5	348.5145	9.40	20.14	29.54	46.00	-16.46	QP	
6	749.6761	14.57	27.89	42.46	46.00	-3.54	QP	

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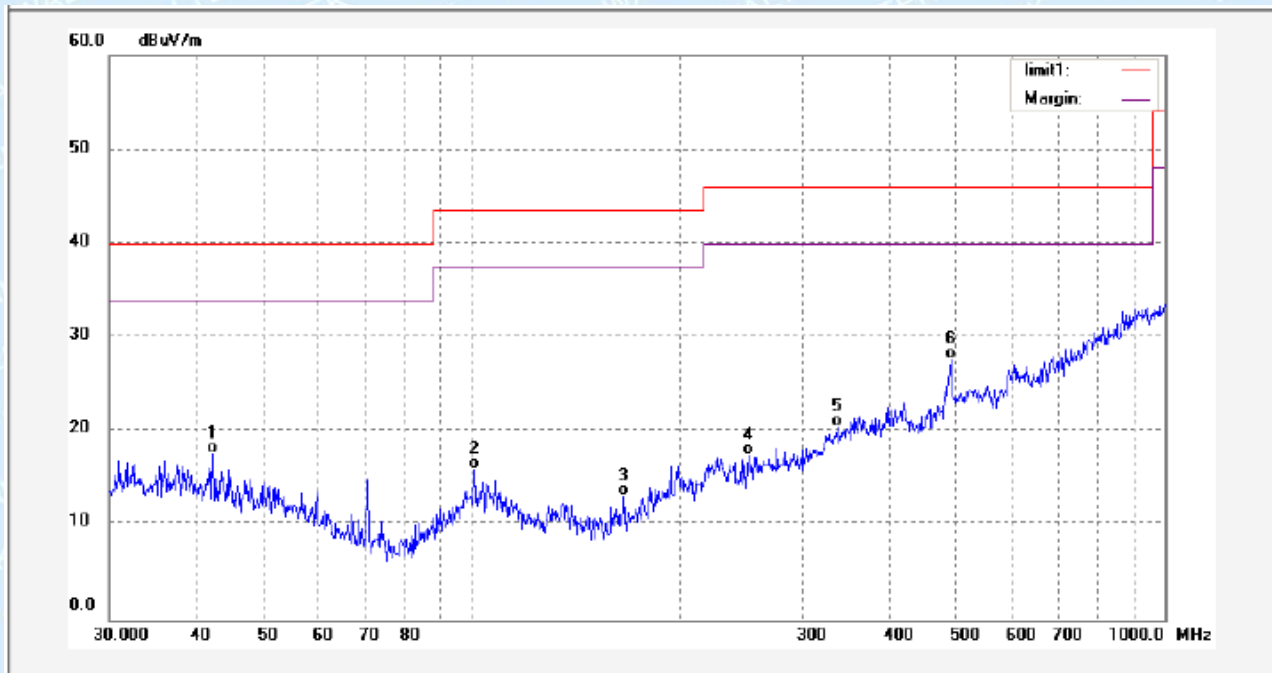


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Horizontal



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Remark
1	42.3314	2.12	15.47	17.59	40.00	-22.41	QP	
2	100.8248	1.97	14.02	15.99	43.50	-27.51	QP	
3	166.0540	1.18	11.97	13.15	43.50	-30.35	QP	
4	251.3676	1.76	15.75	17.51	46.00	-28.49	QP	
5	337.6661	0.43	19.98	20.41	46.00	-25.59	QP	
6	491.7700	2.32	25.29	27.61	46.00	-18.39	QP	

Remark:

Because other emissions below 30MHz are more than 20dB below the limit, the data is not show in the report.



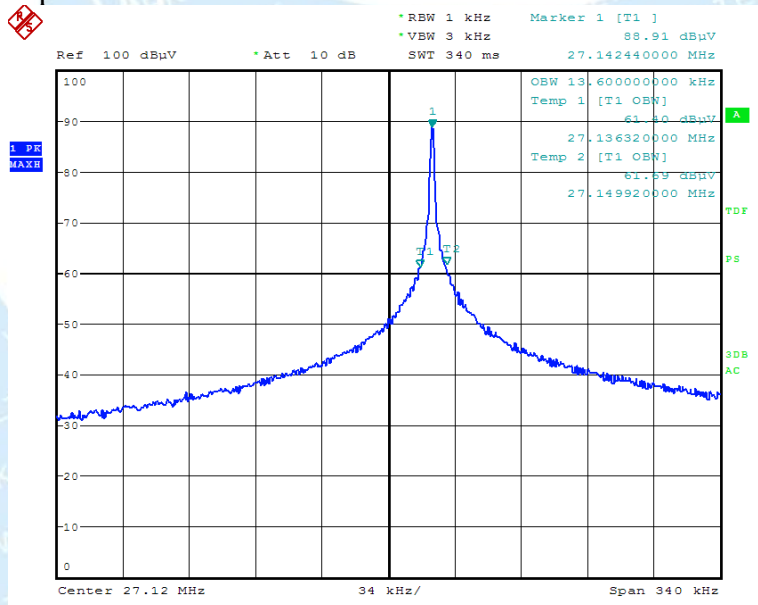
Waltek Services (Shenzhen) Co., Ltd

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Baoan District, Shenzhen 518105, China

Report No.: WT12064292SSF

5.5 Occupied Bandwidth	
Test Requirement	: FCC Part 15 C Section 15.215 (C)
Test Method	: ANSI C63.4: 2003
Frequency range	: Operation within the band 26.960 – 27.280 MHz
Requirements	: Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.
Method of measurement	: The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector. The vertical Scale is set to 10dB per division. The horizontal scale is set to 34KHz per division.
Test Result:	: The unit does meet the FCC Part 15 C Section 15.215 requirements.

The graph as below: represents the emissions take for this device.



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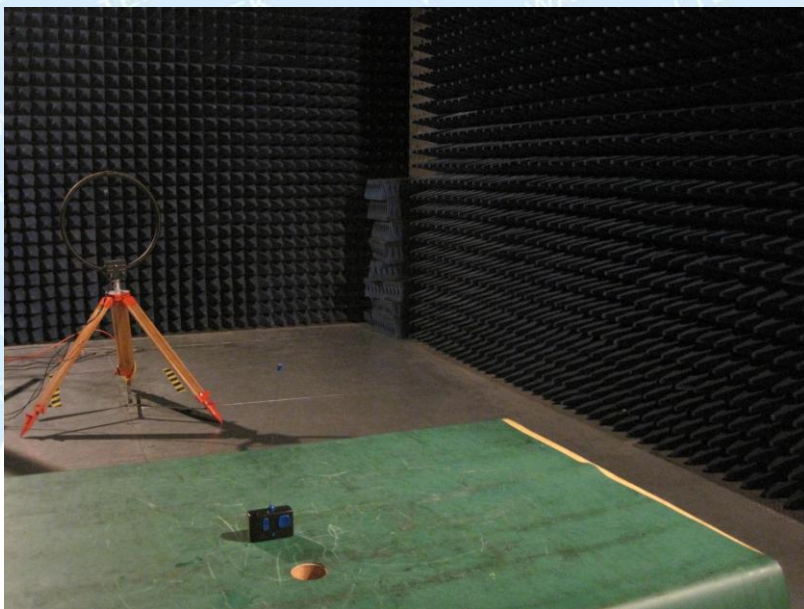
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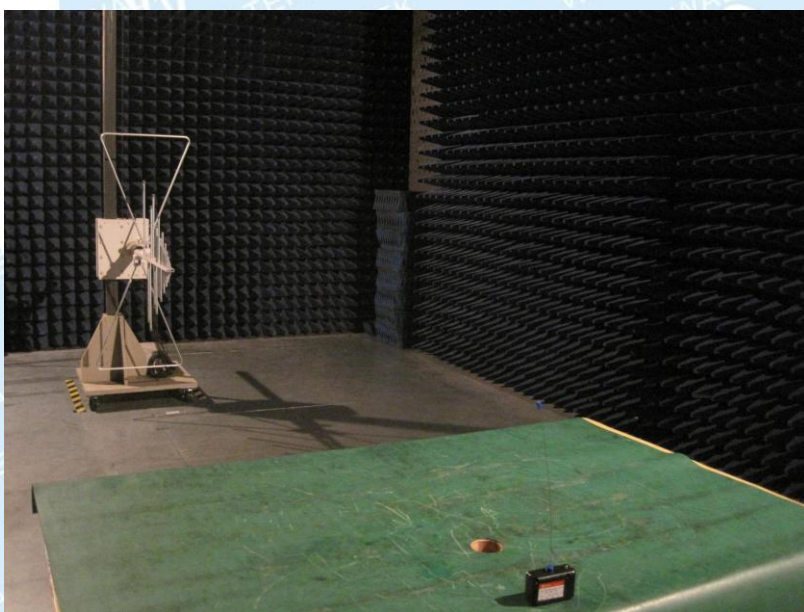
6 Photographs - Test Setup

6.1 Spurious Emission

Below 30MHz



From 30MHz to 1000MHz



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7 Photographs - Constructional Details

7.1 EUT(Model: AR-1001) – Front View



7.2 EUT(Model: AR-1001) – Back View



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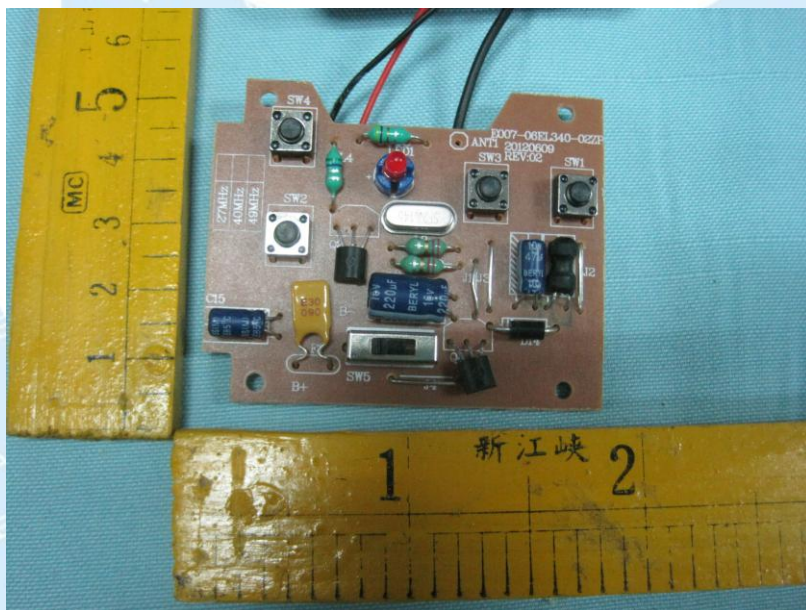
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7.3 EUT (Model: AR-1001)– Open View



7.4 PCB(Model: AR-1001) – Front View



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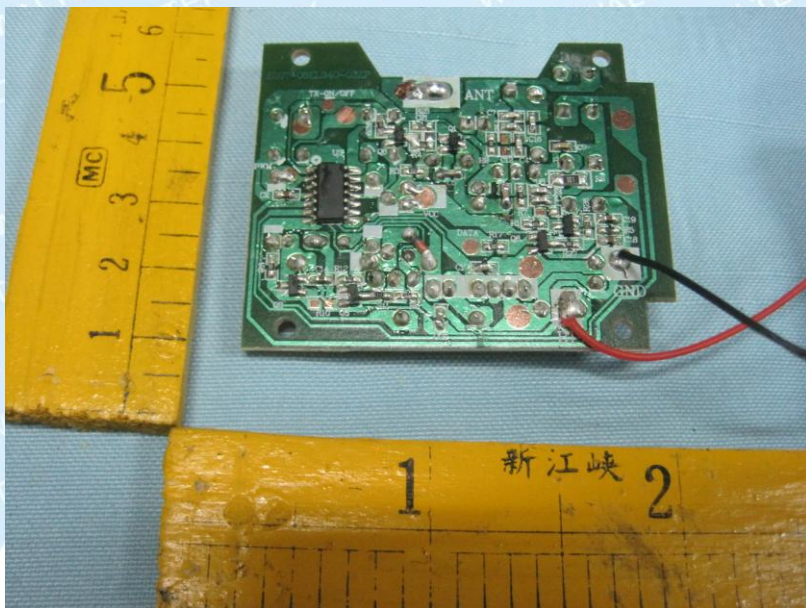


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7.5 PCB(Model: AR-1001) – Back View



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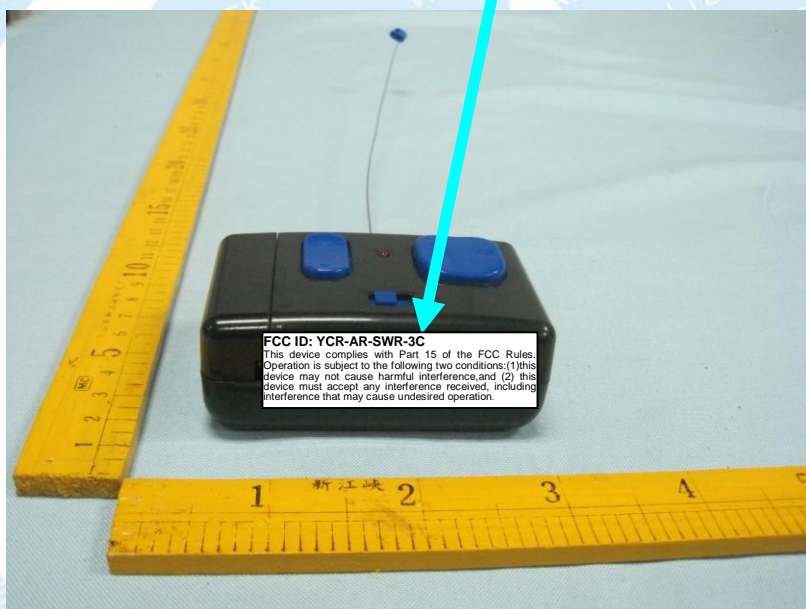
Report No.: WT12064292SSF

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 Top View/ proposed FCC Label Location



=== End of Test Report ===

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