FCC Test Report

For

HENAN ESHOW ELECTRONIC COMMERCE CO., LTD AM/FM 2 RADIO MP3 PLAYER

Model No.: PR12

Prepared For : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD

Address : Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District,

Zhengzhou, Henan, China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : SZAWW180508005-01

Date of Test : May 08~24, 2018

Date of Report : May 24, 2018



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TEST REPORT

Applicant : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD

Manufacturer : HENAN ESHOW ELECTRONIC COMMERCE CO., LTD

Product Name : AM/FM 2 RADIO MP3 PLAYER

Model No. : PR12

Date of Test:

Trade Mark : RETEKESS

Rating(s) : Input: DC 5V, 600mA (with DC 3.7V, 500 mAh Battery inside)

Test Standard(s) : FCC Rules and Regulations Part 15 Subpart B: 2017 / ANSI C63.4-2014

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited To determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited Is assumed full responsibility for the accuracy and completeness of these measurements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited

May 08~24, 2018

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Prepared By: Anbotek	
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Reviewer:	
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Approved & Authorized Signer:	
THE STATE STATE	(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	: HENAN ESHOW ELECTRONIC COMMERCE CO., LTD	
Address	Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District, Zhengzhou, Henan, China	
Manufacturer	: HENAN ESHOW ELECTRONIC COMMERCE CO., LTD	
Address	Room 722, Sanjiang Building, No.170 Nanyang Road, Huiji District, Zhengzhou, Henan, China	200 100 100 100 100 100 100 100 100 100

1.2. Description of Device (EUT)

		그래 하다 그는 사람이 아이는 눈이 아이는 이 아무지만 그는 아무지만이다. 그는 사람이 아이는 이 바라 아이는 이 모든 것이다. 아무지 않는데 아이는 아무지를 하는데 그리고 있다.
Product Name	:	AM/FM 2 RADIO MP3 PLAYER
Model No.	:	PR12
Trade Mark	:	RETEKESS
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter DC 3.7V Battery inside
Operation Frequency:	:	FM: 88.1-107.9MHz; AM: 520KHz-1710KHz
Antenna Type	:	Copper Post Antenna
Antenna Gain(Peak)	:	0 dBi
Product Description		N/A
LACONTO CONTRACTOR CON	4070	5. pay 15 1.18 - 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.

Remark: (1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



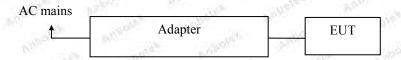
1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: ZTE	200
		M/N: STC-A2050I1000USBA-C	1000
		S/N: 201202102100876	50
		Input: 100-240V~50/60Hz 0.3A	3950
		Output: DC 5V, 1000mA	100

1.4. Description of Test Mode

	Pretest Mode	Description				
	Mode 1	Charge & FM Mode	100			
A THE ST	Mode 2	AM Mode	100 m			

For Mode 1 Block Diagram of Test Setup



For Mode 2 Block Diagram of Test Setup

EUT

1.5. Test Summary

Test Items	Test Mode	Status
Power Line Conducted Emission Test (150KHz To 30MHz)	Mode 1	Leb P provide
Radiated Emission Test (30MHz To 1000MHz)	Mode 1	P
P) Indicates that the through the test. N) Don't test.	Transfer Man	1000



1.6. Test Equipment List

Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Nov. 17, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
2.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
3.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
4.	Software Name EZ-EMC	Ferrari Technology	ANB-03A	N/A	N/A	N/A

1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB
Disturbance Uncertainty	:	Ud = 2.6 dB

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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 No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

All Emissions tests were performed at Shenzhen Anbotek Compliance Laboratory Limited. 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Power Line Conducted Emission Test

2.1. Test Standard and Limit

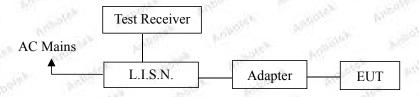
Test Standard	FCC Part 15 Subpart B	200	No. of Street	W 200
	A CONTRACTOR OF THE CONTRACTOR			

Power Line Conducted Emission Measurement Limits (FCC Part 15 Class B)

	Frequency	At mains terminals (dBμV)				
	(MHz)	Quasi-peak Level	Average Level			
Test Limit	0.15 ~ 0.50	66 ~ 56*	56 ~ 46*			
	0.50 ~ 5.00	56	46			
	5.00 ~ 30.00	60	50			

Remark: (1) The lower limit shall apply at the transition frequencies.

2.2. Test Setup



2.3. EUT Configuration on Measurement

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

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT as shown in Section 2.2.
- 2.4.2. Turn on the power of all equipments.
- 2.4.3. Let the EUT work in test mode and measure it.

^{(2) *} Decreasing linearly with logarithm of frequency.

2.5. Test Procedure

The EUT system 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 line 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 FCC ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

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

All the test results are listed in Section 2.6.

2.6. Test Results

PASS

The test curves are shown in the following pages.

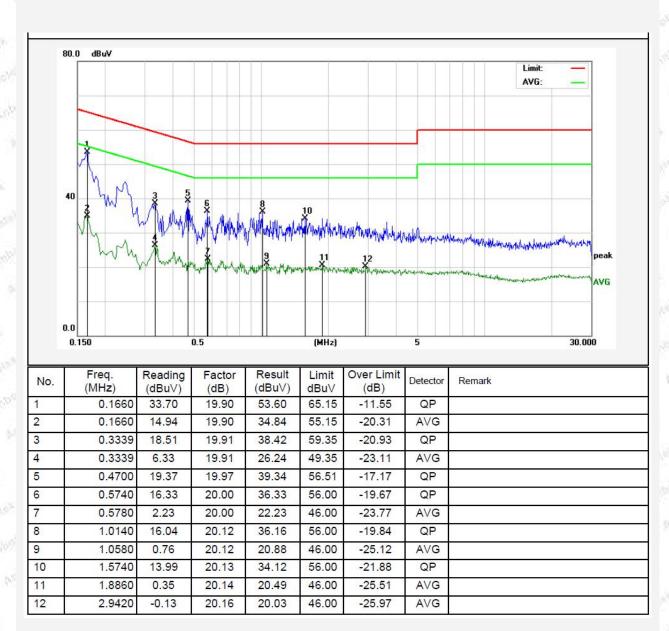


Test Site: 1# Shielded Room

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Temp.: 25 °C Hum.: 50%



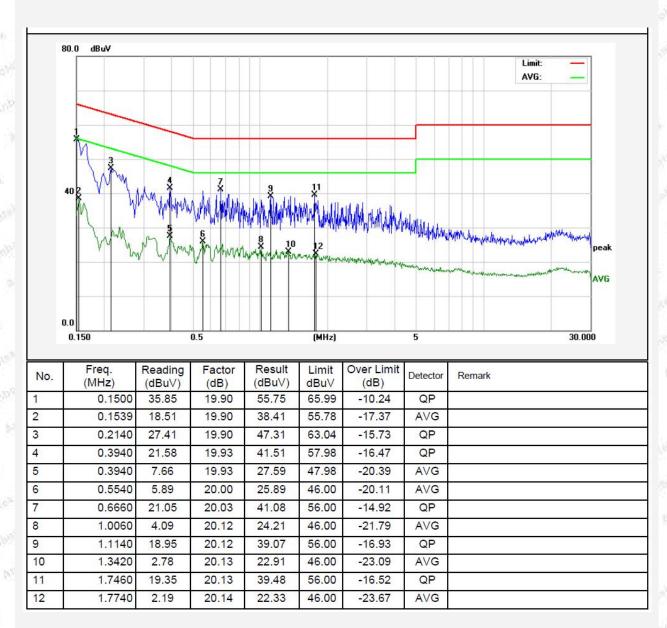


Test Site: 1# Shielded Room

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Temp.: 25℃ Hum.: 50%



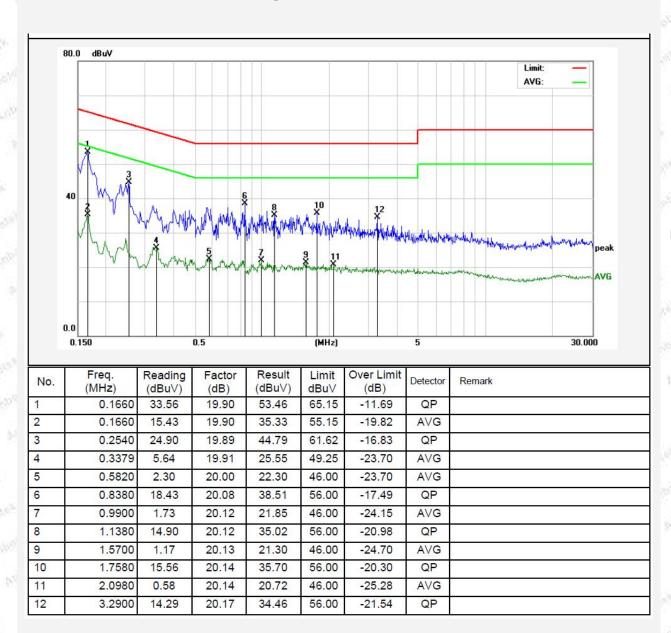


Test Site: 1# Shielded Room

Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

Temp.: 25℃ Hum.: 50%



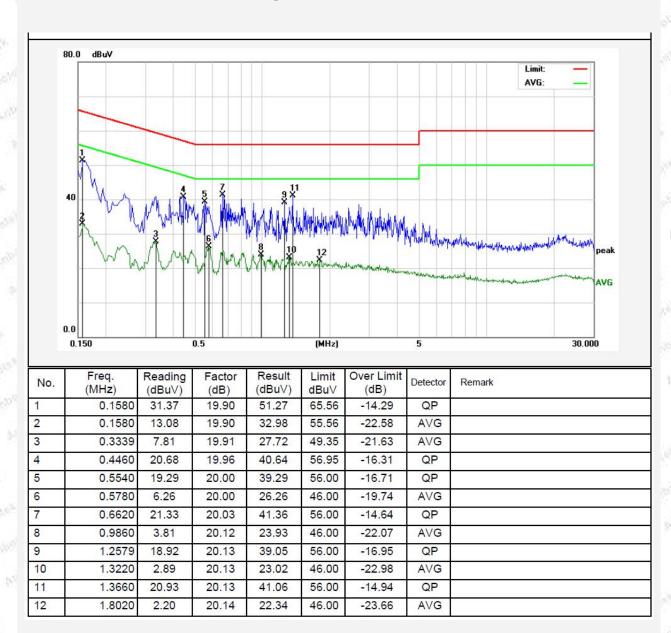


Test Site: 1# Shielded Room

Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Temp.: 25℃ Hum.: 50%





3. Radiated Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part 15 Subpart B	300	100 May 150	1000	5000
	ALTONOMIC CONTRACTOR C				- 10 to 10 t

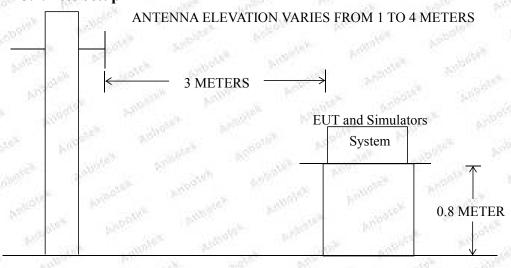
Radiated Emission Test Limit (Subpart B Class B)

, Test Limit	Frequency (MHz)		FIELD STRENGTHS LIMIT	
		DISTANCE		
		(Meters)	μV/m	(dBµV/m)
	30 ~ 88	3	100	40
	88 ~ 216	3	150	43
	216 ~ 960	3	200	46
	960 ~ 1000	3	500	54

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) 3M Limit=10M Limit+k k=20log(D1/D2)=10 3M Limit=10M Limit +10 (D1=10M D2=3M)

3.2. Test Setup



GROUND PLANE

3.3. EUT Configuration on Measurement

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



3.4. Operating Condition of EUT

- 3.4.1. Setup the EUT as shown in Section 3.2.
- 3.4.2. Turn on the power of all equipments.
- 3.4.3. Let the EUT work in test mode and measure it.

3.5. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table 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 a 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 (Trilog Broadband 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 C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESCI) is set at 120kHz.

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

The test results are listed in Section 3.6.

3.6. Test Results

PASS

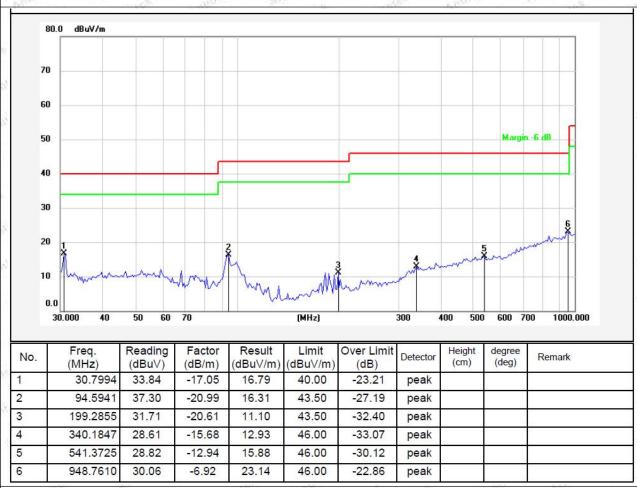
The test curves are shown in the following pages.



Test item: Radiation Test Polarization: Horizontal

Standard: (RE)FCC Part 15 Subpart B Power Source: AC 120V, 60Hz for adapter

Distance: 3m Temp.(℃)/Hum.(%RH): 24.3(℃)/55%RH

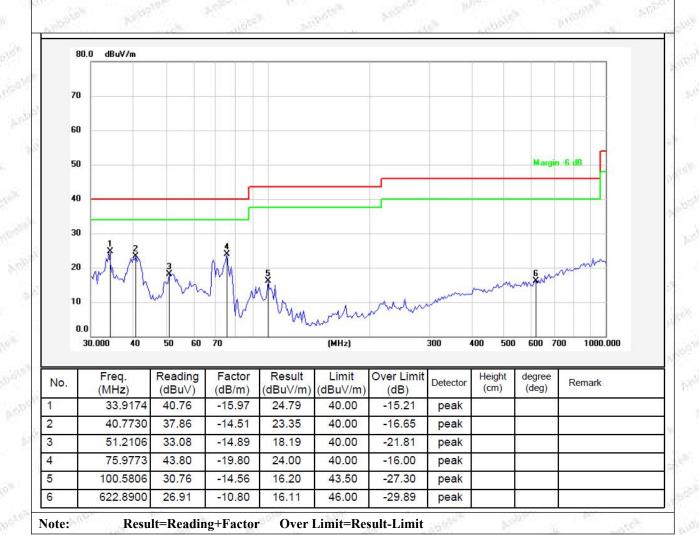




Test item: Radiation Test Polarization: Vertical

Standard: (RE)FCC Part 15 Subpart B Power Source: AC 120V, 60Hz for adapter

Distance: 3m Temp.(℃)/Hum.(%RH): 24.3(℃)/55%RH



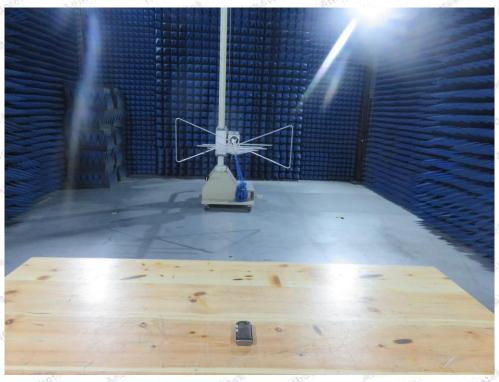


APPENDIX I -- TEST SETUP PHOTOGRAPH





Photo of Radiated Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH















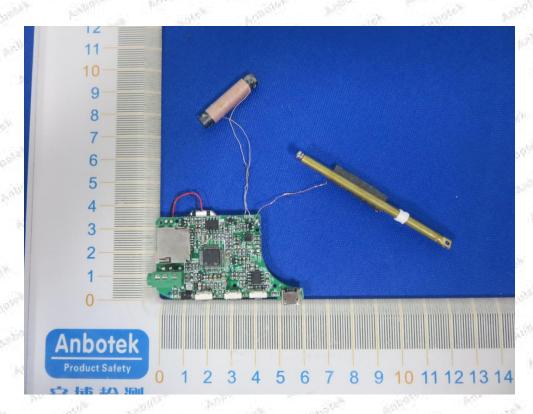


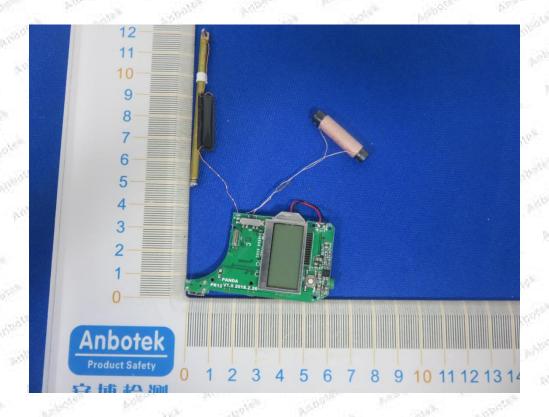


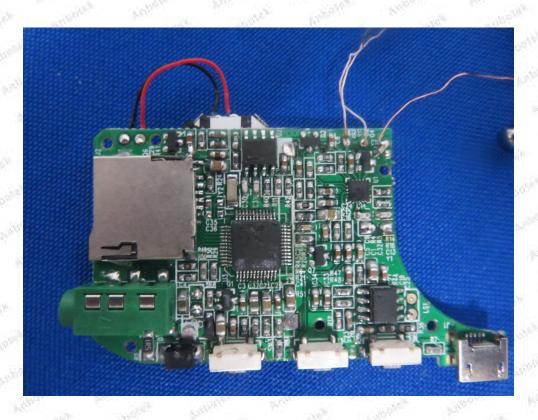


APPENDIX III -- INTERNAL PHOTOGRAPH



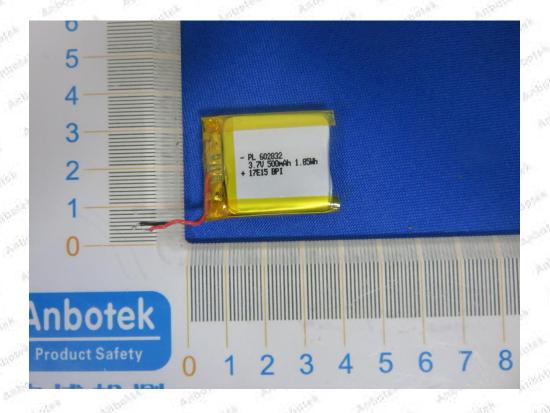












End of Report