



MPE Test Report

Report No.: STS2604427H04

Issued for

Andover Audio LLC

55 Chase St., Methuen, MA 01844 USA

Product Name: Portable Stereo Hi-Fi Speaker

Brand:  andover

Model Number: FreePlay

Series Model(s): NOMAD, RONIN, WAYFARER, GOPLAY

FCC ID: 2AQL4-AAFP1

Test Standard: FCC CFR 47 part 1, 1.1310

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST RESULT CERTIFICATION**

Applicant's Name: Andover Audio LLC
Address: 55 Chase St., Methuen, MA 01844 USA
Manufacturer's Name.....: HUIZHOU CITY SOUNDTOUCH ELECTRONICS CO.,LTD
Address: 4#01, Liandong U Valley, No.1 Shuiqing Road, Shuikou Street,
Huicheng District, Huizhou City, Guangdong Province, P.R.China

Product Description

Product Name.....: Portable Stereo Hi-Fi Speaker

Brand.....:  andover

Model Number: FreePlay

Series Model(s).....: NOMAD, RONIN, WAYFARER, GOPLAY

Standards: FCC CFR 47 part 1, 1.1310

Test Procedure: 680106 D01 RF Exposure Wireless Charging Apps v03

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of receipt of test item: 28 Apr. 2026

Date of performance of tests...: 28 Apr. 2026~21 May 2026

Date of Issue.....: 21 May 2026

Test Result.....: **Pass**

Testing Engineer :



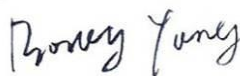
(Aaron Bu)

Technical Manager :



(Skylar Li)

Authorized Signatory :



(Bovey Yang)



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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	21 May 2026	STS2604427H04	ALL	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

1.1 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainly
1	H-filed	$\pm 0.83\text{dB}$
2	E-filed	$\pm 0.91\text{dB}$



1.3 GENERAL DESCRIPTION OF THE EUT

Product Name	Portable Stereo Hi-Fi Speaker
Brand	 andover
Model Number	FreePlay
Series Model(s)	NOMAD, RONIN, WAYFARER, GOPLAY
Model Difference	Only the model and appearance color are different
Equipemnt Category	Non-ISM frequency
Antenna Type	Please refer to the Note 2.
Operating frequency	110.5-205KHz
Modulation Type	ASK/FSK
Rating	Input: 5V---3A,9V---3A,12V---3A,15V---3A,20V---2.25A 45W Max Output: Type-C 5V---3A,9V---3A,12V---3A,15V---3A,20V---2.25A 45W Max Wireless charging 5V---1A 5W
Adapter	Model: YM-PD045EX Brand: N/A Input: 100V-240V~ 50/60Hz 1.2A Output: USB-C 5V---3A 9V---3A,12V---3A,15V---3A,20V---2.25A
Battery	Model: ANDOVER 18650 3S3P 7800mAh 11.1V Brand:ZECA Rated Voltage: 11.1V Charge Limit Voltage: 12.6V Capacity: 7800mAh
Hardware version number	Rev:1.04
Software version number	V2.00
Sample Number	260427002-7
Connecting I/O Port(s)	Please refer to the Note 1.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
1	 andover	FreePlay	Coil	N/A	Antenna

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Electric and Magnetic field Probe - Analyzer	Narda	EHP 200A	180ZX10220	2026.02.04	2027.02.03

1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
/	Mobile Phone	Apple	iPhone 8 Plus	N/A	N/A

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) "YES" is means "with core"; "NO" is means "without core".



2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

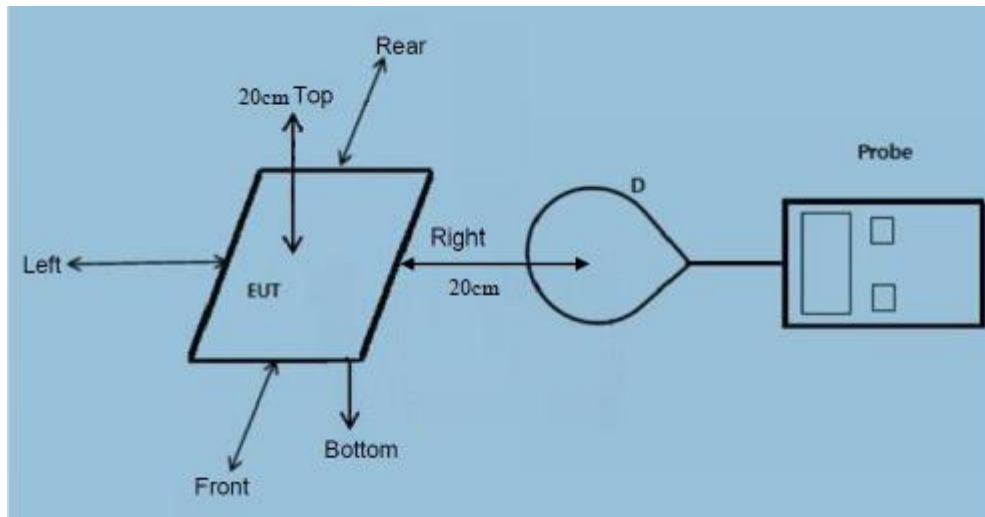
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

2.2 TEST PROCEDURE

- a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP



Remark: The EHP 200A probe antenna diameter is less than 11.5cm.

2.4 TEST RESULTS

The EUT does comply with item 5 KDB680106 D01 v03.

- (1) Power transfer frequency is less than 1 MHz.
(Conform)
- (2) Output power from each primary coil is less than or equal to 5 watts.
(Conform)
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
(Conform)
- (4) Client device is placed directly in contact with the transmitter.
(Conform)
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
(Conform)
- (6) The aggregate H-field strengths at 20 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
(Conform)



2.5 MAXIMUM PERMISSIBLE EXPOSURE

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
< 1% Battery	20cm	Front	0.455	0.120
< 1% Battery	20cm	Rear	0.439	0.118
< 1% Battery	20cm	Left	0.430	0.115
< 1% Battery	20cm	Right	0.443	0.123
< 1% Battery	20cm	Top	0.466	0.133
Limit			614	1.63
Margin Limit (%)			0.08%	8.13%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	20cm	Front	0.457	0.128
50% Battery	20cm	Rear	0.441	0.102
50% Battery	20cm	Left	0.433	0.111
50% Battery	20cm	Right	0.447	0.112
50% Battery	20cm	Top	0.468	0.145
Limit			614	1.63
Margin Limit (%)			0.08%	8.88%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
> 99% Battery	20cm	Front	0.449	0.119
> 99% Battery	20cm	Rear	0.434	0.111
> 99% Battery	20cm	Left	0.420	0.124
> 99% Battery	20cm	Right	0.452	0.112
> 99% Battery	20cm	Top	0.474	0.140
Limit			614	1.63
Margin Limit (%)			0.08%	8.59%

MPE SETUP PHOTO

Front



Left



Rear



Right



Top



*****END OF THE REPORT*****