



FCC TEST REPORT FCC ID: 2AMNH-AREALELEGANCE

Product	:	SPEAKER			
Model Name	:	US-10034854;US-10034855(see the page 7 for the series list)			
Brand	:	♦ auna			
Report No.	:	PTC20121003202E-FC02			
		Prepared for			
		Berlin Brands Group Inc			
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		Prepared by			
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TEST RESULT CERTIFICATION

Applicant's name : Berlin Brands Group Inc

Address . 101 Montgomery Street, Suite 2050 San Francisco, California,

United States, 94104

Manufacture's name : Shenzhen City Enkor Electronics Ltd

the 2nd&3rd floor, Building P and building Q, Shengguang

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District, Shenzhen, China.

Product name : SPEAKER

Model name : US-10034854;US-10034855(see the page 7 for the series list)

Test procedure KDB 447498 D01 General RF Exposure Guidance v06

Test Date : December 28, 2020 to January 13, 2021

Date of Issue : January 13, 2021

Test Result : Pass

This device described above has been tested by PTS, and 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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Test Engineer:

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	SPEAKER		
Model Name :		US-10034854;US-10034855;US-70003140;US-70003141;US-70003142; US-70003143;H6907 ;H3903;US-10033065;Z-Plus;H5188 ;US-10000148; Areal-525;US-10007842;US-10022257;H5818;US-10000147;5.1-J; US-10022256;V5810;US-10009139;V51-RED;H7826;US-10006335; CONCEPT 620;US-10030885;US-70001374;US-70001375;Areal 652; US-10030886;US-70001376;US-70001377;H5873;US-10033066; Concept 520;H5880;US-10033067;Concept 720;H5919;US-10033068;Areal Touch; H7901;US-10033070;X-Gaming;E200;US-10006309;Hi2028;R230;US-10004765; FS 23;H3830;US-10004814;HF583;M108;US-10033072;Linie 100 A;H7931; US-10036134;US-70003357;US-70003358;H5961 ;US-10036135;Areal 5.1; US-10036136;M2201;US-10036137;Linie 200 A;US-10033203 Note:These models are identical, and all models have the same RF module and Antenna, except for color of enclosure and model No. for trading purpose.		
Bluetooth Version	:	Bluetooth V5.0 +EDR		
Operating frequency	:	2402-2480MHz		
Numbers of Channel	:	79 channels		
Antenna Type	:	Internal Antenna		
Antenna Gain	:	0 dBi		
Type of Modulation	:	GFSK, Π/4-DQPSK,8DPSK		
Power supply	:	Input: AC100-240V 50/60Hz		
Hardware Version	:	N/A		
Software Version	:	N/A		



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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
	27.0	0.070	-	30
300-1500			F/1500	30
1500-100,000			1.0	30

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



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
ВТ	1.00	-0.466	0.90	0.0002	1	Pass

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