



RF EXPOSURE TEST REPORT

Applicant	ALLSTAR MARKETING GROUP				
Address	2 SKYLINE DRIVE HAWTHORNE NY 10532				
Manufacturer or Supplier	ShenZhen V-Start Development co.,LTD.				
Address	Room 1401 Zhongxi ECO build	ding, Baoan district, Shenzhen, Guangdong, China			
Product	EASY TOUCH SPEAKER				
Brand Name	N/A				
Model	VS2201				
Additional Model & Model Difference	EST01106, see items 1.1				
Date of tests	Jan. 25, 2022 ~ Feb. 28, 2022				
The submitted samp following standard:	le of the above equipment has b	peen tested according to the requirements of the			
	, Subpart I, Section 1.1310 1				
CONCLUSION: The	submitted sample was found	to <u>COMPLY</u> with the test requirement			
Tested by Lucas Chen Project Engineer / EMC Department Approved by Glyn He Assistant Manager / EMC Department					
Lucas					

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Data: Mar. 31, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2201WDG0203	Original release	Mar. 31, 2022

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

FCC ID	2APZ3-EST01106			
PRODUCT	EASY TOUCH SPEAKER			
MODEL NO.	VS2201			
ADDITIONAL MODEL	EST01106			
SAMPLE STATUS	Engineering sample			
POWER SUPPLY	DC 5V from USB Host Unit or DC 3.7V from Li-ion Battery; Wireless Charging: 5W MAX. (see notes 4)			
MODULATION TECHNOLOGY	FSK			
OPERATING FREQUENCY RANGE	111KHz ~ 205KHz			
ANTENNA TYPE	Coil Antenna			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED	USB-A to 2*Micro USB Cable: Unshielded, Detachable, 40cm			

NOTES:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 2201WDG0203-1) for detailed product photo.
- The battery power supply supports only the Aux In and Induction Horn functions, but does not support the wireless charging function. The wireless charging function requires independent DC 5V power supply.
- 5. Additional model EST01106 is identical with test model VS2201 except the appearance, trade name and model number for marketing purpose.

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2. RF EXPOSURE MEASUREMENT

2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3–3.0	614	1.63	*(100)	6				
3.0–30	1842/f	4.89/f	*(900/f2)	6				
30–300	61.4	0.163	1.0	6				
300-1500			f/300	6				
1500-100,000			5	6				
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure					
0.3–1.34	614	1.63	*(100)	30				
1.34-30	824/f	2.19/f	*(180/f ²)	30				
30–300	27.5	0.073	0.2	30				
300-1500			f/1500	30				
1500-100,000			1.0	30				

f = frequency in MHz

* = Plane-wave equivalent power density
NoTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their
employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.
Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NoTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

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 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below

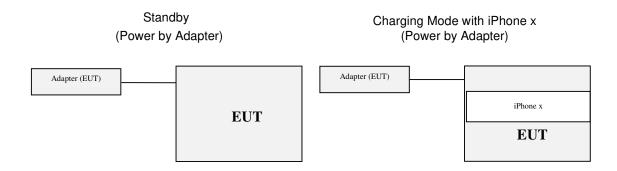
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	iPhone X	Apple	MQA52CH/A	N/A	N/A
2	Adapter	HUAWEI	N/A	N/A	N/A

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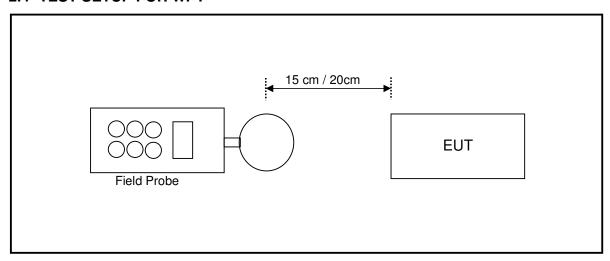
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2.3 CONFIGURATION OF SYSTEM UNDER TEST



2.4 TEST SETUP FOR WPT



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

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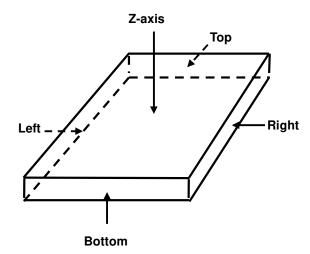


2.5 EQUIPMENTS USED DURING TEST

Item	Test Equipment	Manufacturer	Model No.	Frequency Range	Next Cal.
1	RS Chamber	Chance Most	8m*4m*4m	E1-010019	2022-05-05
2	Narda Broadband Field Meter	Narda	NBM-520	100KHz-90GHz	2022-11-11
3	E-Field probe	Narda	EF0691	100KHz-6GHz	2022-06-13
4	Exposure Level Tester	Narda	ELT-400	1Hz-400KHz	2022-06-13

- **NOTES:** 1. The test was performed in RS chamber.
 - 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2.6 TEST POINT DESCRIPTION



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2.7 TEST RESULTS

Mode 1 Standby

E-Field Measurement						
Distance		15	cm		20cm	
EUT Side	Left	Left Right Top Bottom				
Max E-field (V/m)	0.62	0.62 0.69 0.62 0.58				
Limit (V/m)	614	614	614	614	614	
Margin (V/m)	-613.38	-613.31	-613.38	-613.42	-612.3	
50% Limit (V/m)	307	307	307	307	307	
50% Margin (V/m)	-306.38	-306.31	-306.38	-306.42	-305.3	

H-Field Measurement						
Distance		15	cm		20cm	
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.228	0.232	0.236	0.241	0.339	
Max H-field (A/m)	0.182	0.185	0.188	0.192	0.270	
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.448	-1.445	-1.442	-1.438	-1.360	
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	
50% Margin (A/m)	-0.633	-0.630	-0.627	-0.623	-0.545	

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Mode 2: Operating with iPhone x 10% Charger

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E-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	1.92	1.92 1.01 1.34 1.85					
Limit (V/m)	614	614	614	614	614		
Margin (V/m)	-612.08	-612.08 -612.99 -612.66 -612.15					
50% Limit (V/m)	307	307	307	307	307		
50% Margin (V/m)	-305.08	-305.99	-305.66	-305.15	-304.14		

H-Field Measurement						
Distance		15	cm		20cm	
EUT Side	Left	Left Right Top Bottom				
Max H-field (uT)	0.23	0.228	0.229	0.231	0.239	
Max H-field (A/m)	0.183	0.182	0.182	0.184	0.190	
Limit (A/m)	1.63	1.63	1.63	1.63	1.63	
Margin (A/m)	-1.447	-1.448	-1.448	-1.446	-1.440	
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815	
50% Margin (A/m)	-0.632	-0.633	-0.633	-0.631	-0.625	

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

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Mode 3: Operating with iPhone x 50% Charger

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E-Field Measurement							
Distance		15	cm		20cm		
EUT Side	Left	Left Right Top Bottom					
Max E-field (V/m)	1.71	1.71 2.11 1.56 1.43					
Limit (V/m)	614	614	614	614	614		
Margin (V/m)	-612.29	-611.89	-612.44	-612.57	-611.41		
50% Limit (V/m)	307	307	307	307	307		
50% Margin (V/m)	-305.29	-304.89	-305.44	-305.57	-304.41		

H-Field Measurement							
Distance	15cm				20cm		
EUT Side	Left	Right	Тор	Bottom	Z-axis		
Max H-field (uT)	0.229	0.229	0.228	0.23	0.236		
Max H-field (A/m)	0.182	0.182	0.182	0.183	0.188		
Limit (A/m)	1.63	1.63	1.63	1.63	1.63		
Margin (A/m)	-1.448	-1.448	-1.448	-1.447	-1.442		
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815		
50% Margin (A/m)	-0.633	-0.633	-0.633	-0.632	-0.627		

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Mode 4: Operating with iPhone x 90% Charger

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E-Field Measurement								
Distance	15cm				20cm			
EUT Side	Left	Right	Тор	Bottom	Z-axis			
Max E-field (V/m)	1.58	1.67	1.33	1.37	2.96			
Limit (V/m)	614	614	614	614	614			
Margin (V/m)	-612.42	-612.33	-612.67	-612.63	-611.04			
50% Limit (V/m)	307	307	307	307	307			
50% Margin (V/m)	-305.42	-305.33	-305.67	-305.63	-304.04			

H-Field Measurement								
Distance	15cm				20cm			
EUT Side	Left	Right	Тор	Bottom	Z-axis			
Max H-field (uT)	0.23	0.229	0.228	0.231	0.336			
Max H-field (A/m)	0.183	0.182	0.182	0.184	0.268			
Limit (A/m)	1.63	1.63	1.63	1.63	1.63			
Margin (A/m)	-1.447	-1.448	-1.448	-1.446	-1.362			
50% Limit (A/m)	0.815	0.815	0.815	0.815	0.815			
50% Margin (A/m)	-0.632	-0.633	-0.633	-0.631	-0.547			

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

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3. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (FCC MPE Test Photo).

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