

## TXS Industrial Design Inc. d.b.a Brandstand Products

# **TEST REPORT**

### **SCOPE OF WORK**

SAR Assessment – BPEVA2

## **REPORT NUMBER**

230703019SZN-002

#### **ISSUE DATE**

[REVISED DATE]

21 September 2023 [-----]

### **PAGES**

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### **DOCUMENT CONTROL NUMBER**

**RF** Exposure © 2017 INTERTEK





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Intertek Report No.: 230703019SZN-002

## **Test Report**

Applicant : TXS Industrial Design Inc. d.b.a Brandstand Products

1219 Digital Dr. Suite 100 Richardson, Texas 75081

Sample Description : CubieVia 2.0 Product Model No. : BPEVA2

BRAND STAND

Brand Name

Electrical Rating : Input: 125V~50/60Hz, 12A MAX

Output:

Type-C1: 5.0V=3.0A,9.0V=2.22A Type-C2: 5.0V=3.0A,9.0V=2.22A

Type 3 SPD VPR: L-N 1500V, L-G 1500V, N-G 1500V

Wireless Output: 10W

C1+C2 Output: 5.0V-4.0A, 20W Max C1+C2+Wireless total Output: 30W

Date Received : 03 July 2023

Date Test Conducted : 03 July 2023 to 22 July 2023

Test Requested : Test for compliance with CFR 47 part 1

Test Method : Environmental evaluation and exposure limit according

to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310 KDB 680106 D01 RF Exposure Wireless Charging App v03r01

Test Result : Pass

**Assistant Engineer** 

Conclusion : When determining of test conclusion, measurement

uncertainty of tests have been considered.

**Project Engineer** 

Prepared and Checked By: Approved By:

Tenet Cao Ryan RQ Chen

Date: 21 September 2023

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#### Intertek Testing Services Shenzhen Ltd. Longhua Branch

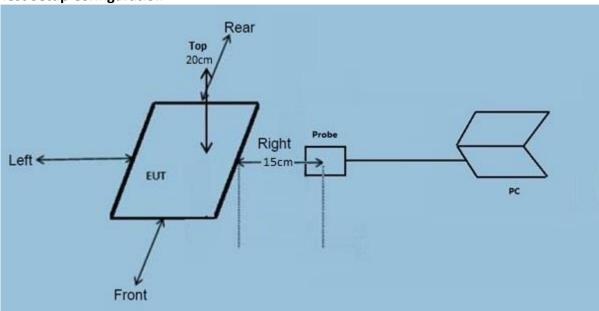
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## **Test Report**

## **Test Setup Configuration**



### Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.

## **Test Equipment List**

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ186-04	Electric and Magnetic Field Analyzer	Narda	EHP-50F	510WY90119	2022-08-01	2023-08-01



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## This product was tested in the following configuration:

Description	Manufacturer	Detail		
Mobile Phone (Provided by Intertek)	Apple Inc.	iphone Xs Max		
Clip line (Provided by Intertek)	N/A	Unshielded, Length: 40cm		
C to C cable (Provided by Intertek)	N/A	Unshielded, Length: 10cm		
Cement resistor*2 (Provided by Intertek)	N/A	2.5Ω		
Bulb (Provided by Intertek)	N/A	40W		
Port A to port C conversion board (Provided by Intertek)	LX-CMTPD	N/A		

## Justification

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power

The EUT was powered by an adapter with  $125V^{\sim}50/60Hz$ , 12A MAX input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. and only the worst-case data was shown in this report.



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#### **Reference Limit:**

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

## LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

_			•						
	Frequency Range Electric Field strength (V/m)		Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (minutes)				
	(A) Limits for Occupational/Controlled Exposure								
0.3 – 3.0 614		1.63 (100) *		6					
	(B) Limits for General Population/Uncontrolled Exposure								
ſ	0.3 - 1.34	614	1.63	(100) *	30				

Note: \* = Plane wave equivalent power density

## **Test Result:**

During test, the mobile handset is being charged.

**Worst Case Operating Mode: Mode 2** 

## Test Result for wireless power transmit part:

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.112- 0.205	1% Battery Level	0.3048	0.3012	0.2993	0.3030	0.5242	1.63
0.112- 0.205	50% Battery Level	0.3048	0.3002	0.2993	0.3031	0.5184	1.63
0.112- 0.205	99% Battery Level	0.3047	0.3019	0.2991	0.3030	0.5184	1.63
0.112- 0.205	Stand-by	0.2899	0.2858	0.2883	0.2844	0.4970	1.63



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## E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.112- 0.205	1% Battery Level	1.7637	1.8225	1.8155	1.8651	2.0644	614
0.112- 0.205	50% Battery Level	1.8947	1.8244	1.8407	1.8651	2.0073	614
0.112- 0.205	99% Battery Level	1.8947	1.8244	1.8407	1.8444	2.0358	614
0.112- 0.205	Stand-by	1.6890	1.7447	1.6478	1.8252	1.9833	614