

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

# TEST REPORT

**SCOPE OF WORK**

SAR Assessment– BPEVA

**REPORT NUMBER**

200309042SZN-002

**ISSUE DATE**

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**[REVISED DATE]**

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**PAGES**

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**DOCUMENT CONTROL NUMBER**

RF Exposure

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## Test Report

Applicant : TXS Industrial Design Inc. d.b.a Brandstand Products  
801 E Campbell Rd. #620, Richardson, TX 75081, United States

### Sample Description

Product : CubieVia  
Model No. : BPEVA  
Brand Name : BRANDSTAND  
Electrical Rating : Input: AC125V, 12A 60Hz, 1500W  
USB-Total Output: DC5 V/2.4A  
Wireless Output: DC 5V/1A, DC 9V/1.1A

Date Received : 9 March 2020  
Date Test Conducted : 9 March 2020 to 18 March 2020

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

Test Result : Pass  
Conclusion : When determining of test conclusion, measurement uncertainty of tests have been considered.

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Date: 20 March 2020

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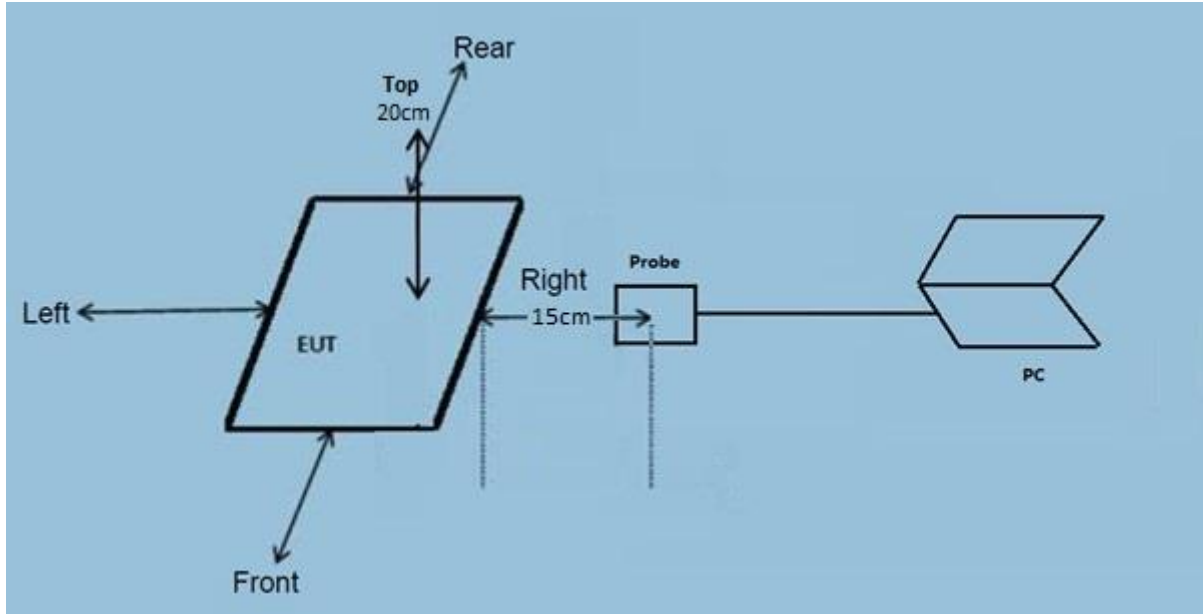
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## Test Report

### 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

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Electric and Magnetic Field Analyzer	EHP-50F	Narda	2019-06-27	2020-06-27

**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 (MHz)	Electric Field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	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				
0.3 – 1.34	614	1.63	(100) *	30

Note: \* = Plane wave equivalent power density

**Test Result:**

**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)
0.110-0.205	10% Battery Level	0.0475	0.0468	0.0698	0.0475	0.0469	1.63
0.110-0.205	50% Battery Level	0.0482	0.0474	0.0733	0.0802	0.0478	1.63
0.110-0.205	90% Battery Level	0.0473	0.0471	0.0712	0.0479	0.0474	1.63
0.110-0.205	Stand-by	0.0434	0.0440	0.0451	0.0448	0.0441	1.63

**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)
0.110-0.205	10% Battery Level	0.4869	0.4419	0.5571	0.4982	0.6369	614
0.110-0.205	50% Battery Level	0.4973	0.4522	0.5637	0.5041	0.6474	614
0.110-0.205	90% Battery Level	0.4911	0.4497	0.5594	0.5004	0.6402	614
0.110-0.205	Stand-by	0.4082	0.4121	0.4213	0.4311	0.4124	614

**Configuration photo of the test:**

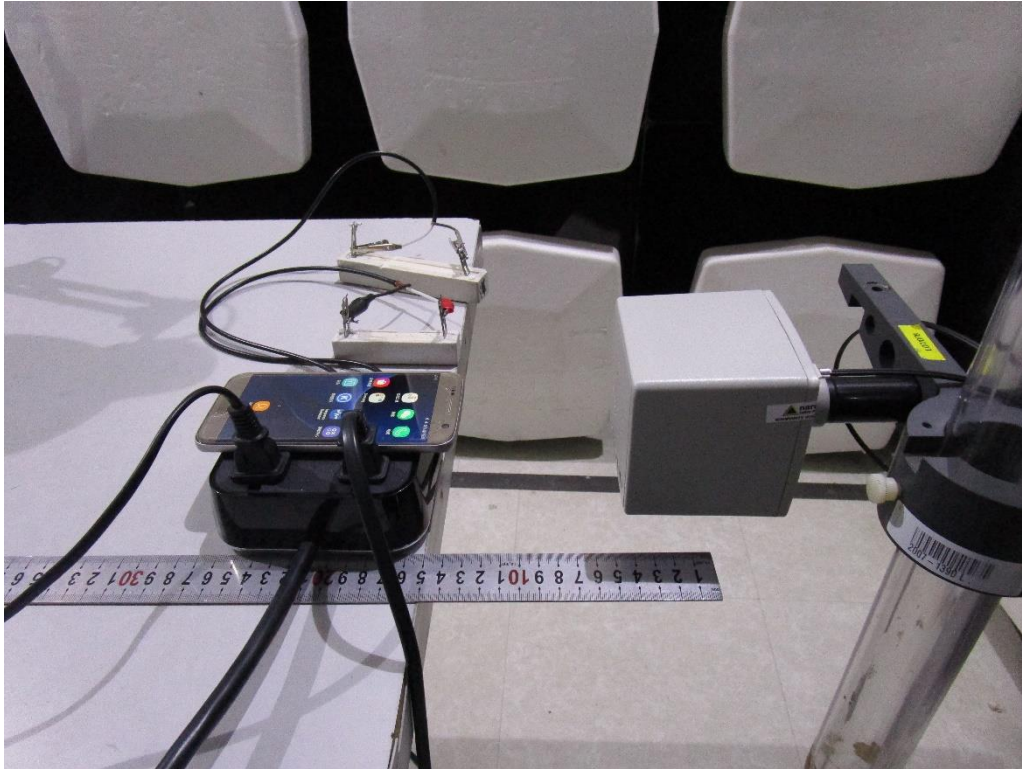
H-Field & E-Field Strength test photos



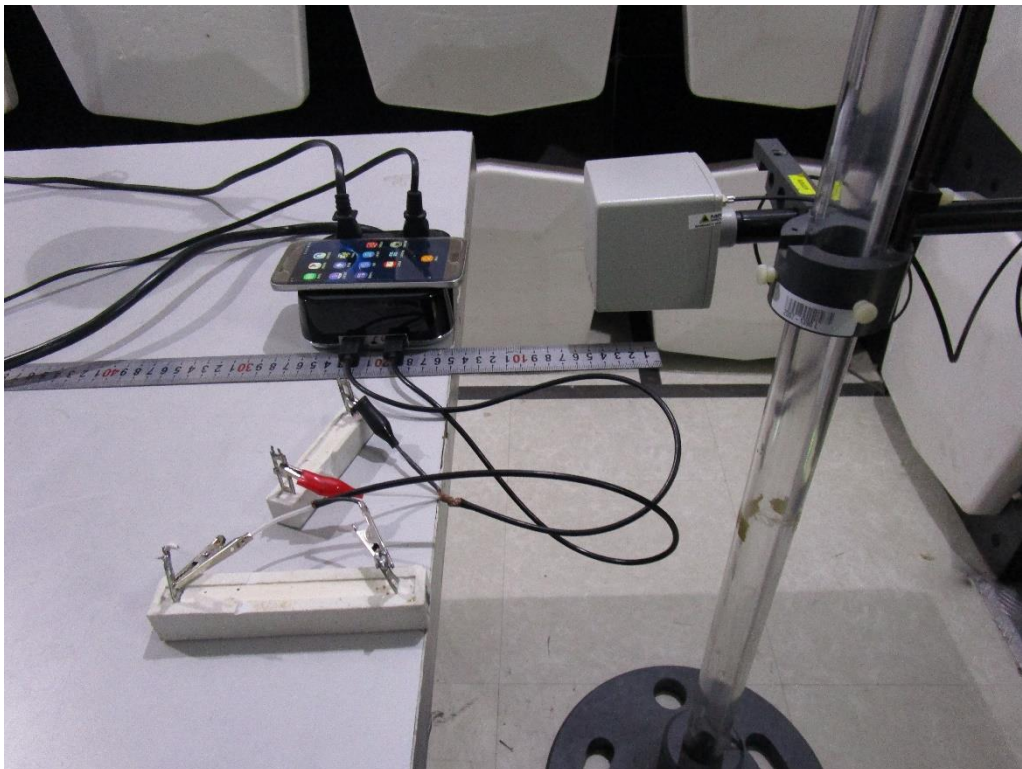
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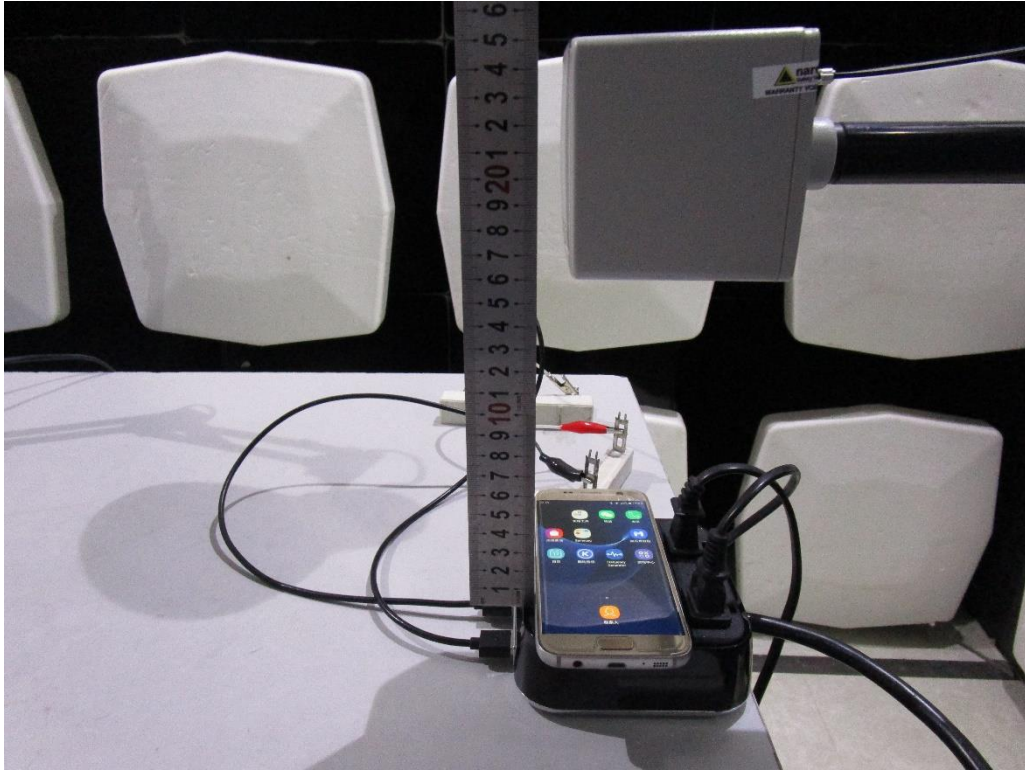
Rear



Left



Right



Top

\*\*\*\*\* End of Report\*\*\*\*\*