

# MerchSource, LLC.

# TEST REPORT

## SCOPE OF WORK

SAR Assessment– 1015473, 101XXXX (WHERE XXXX CAN BE DIGITS  
0000-9999 WHICH REPRESENT DIFFERENT CUSTOMERS)

## REPORT NUMBER

220511079SZN-002

## ISSUE DATE

05 August 2022

## [REVISED DATE]

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## PAGES

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## DOCUMENT CONTROL NUMBER

RF Exposure

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## Test Report

Applicant : MerchSource, LLC.  
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United States 92618

Sample Description

Product : Portable Storage Valet with Charging Pad

Model No. : 1015473, 101XXXX (WHERE XXXX CAN BE DIGITS 0000-9999 WHICH REPRESENT DIFFERENT CUSTOMERS)

Electrical Rating : USB-C Input:5Vdc 2.0A, 9Vdc 2A, 12Vdc 1A  
Wireless Output:5.0W, 7.5W, 10.0W(10.0W Max)

Date Received : 11 May 2022

Date Test Conducted : 23 June 2022 to 01 July 2022

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

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

\*\*\*\*\* End of Page \*\*\*\*\*

**Prepared and Checked By:**

**Approved By:**

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Date: 05 August 2022

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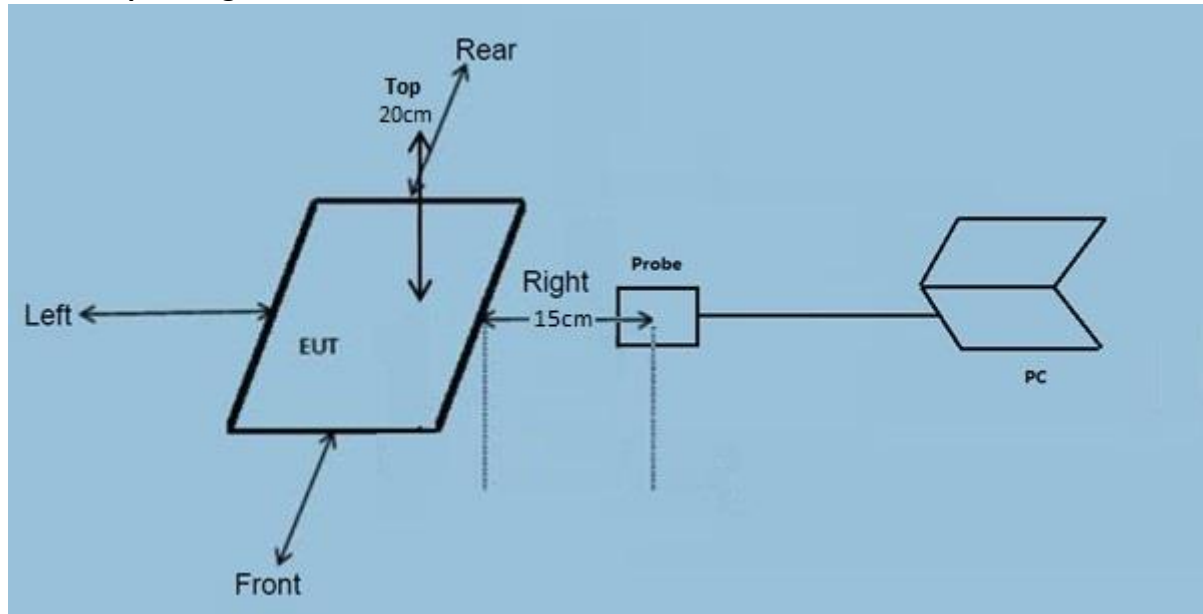
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## Test Report

### 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

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ186-04	Electric and Magnetic Field Analyzer	Narda	EHP-50F	510WY90119	2021-07-20	2022-07-20

**This product was tested in the following configuration:**

Description	Manufacturer	Detail
USB cable	NIL (Provided by applicant)	Unshielded, Length 100cm
Adjustable load	NIL (Provided by Intertek)	N/A
Adapter	XIAOMI (Provided by Intertek)	Model: MDY-05-EW Input: 100-240Vac 50/60Hz 0.35A Output: 5Vdc 2.0A, 9Vdc 2A, 12Vdc 1A

**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 120V/60Hz input during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. All cases (5W, 7.5W, 10W) have been tested, only the worst-case data was shown in this report.

The Model: 101XXXX (where XXXX can be digits 0000-9999 which represent different customers) is the same as the Model: 1015473 in hardware aspect. The difference in model number serves as marketing strategy.

**RF Exposure Configuration Photograph**

For electronic filing, the worst case RF Exposure configuration photographs are saved with filename: RF Exposure Photos.pdf.

**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:**

**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)
0.110-0.205	1% Battery Level	0.1999	0.1834	0.2007	0.1833	0.1856	1.63
0.110-0.205	50% Battery Level	0.1829	0.1830	0.1987	0.1813	0.1803	1.63
0.110-0.205	99% Battery Level	0.1899	0.1821	0.1954	0.1794	0.1789	1.63
0.110-0.205	Stand-by	0.1806	0.1800	0.1960	0.1788	0.1770	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	1% Battery Level	0.5424	0.4760	0.5424	0.4640	0.5007	614
0.110-0.205	50% Battery Level	0.4955	0.4755	0.5381	0.4599	0.4948	614
0.110-0.205	99% Battery Level	0.5211	0.4729	0.5379	0.4591	0.4891	614
0.110-0.205	Stand-by	0.5105	0.4741	0.5366	0.4542	0.4910	614

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