

MerchSource, LLC.

TEST REPORT

SCOPE OF WORK

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

REPORT NUMBER

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RF Exposure

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Test Report

Applicant : MerchSource, LLC.
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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.

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Date: 05 August 2022

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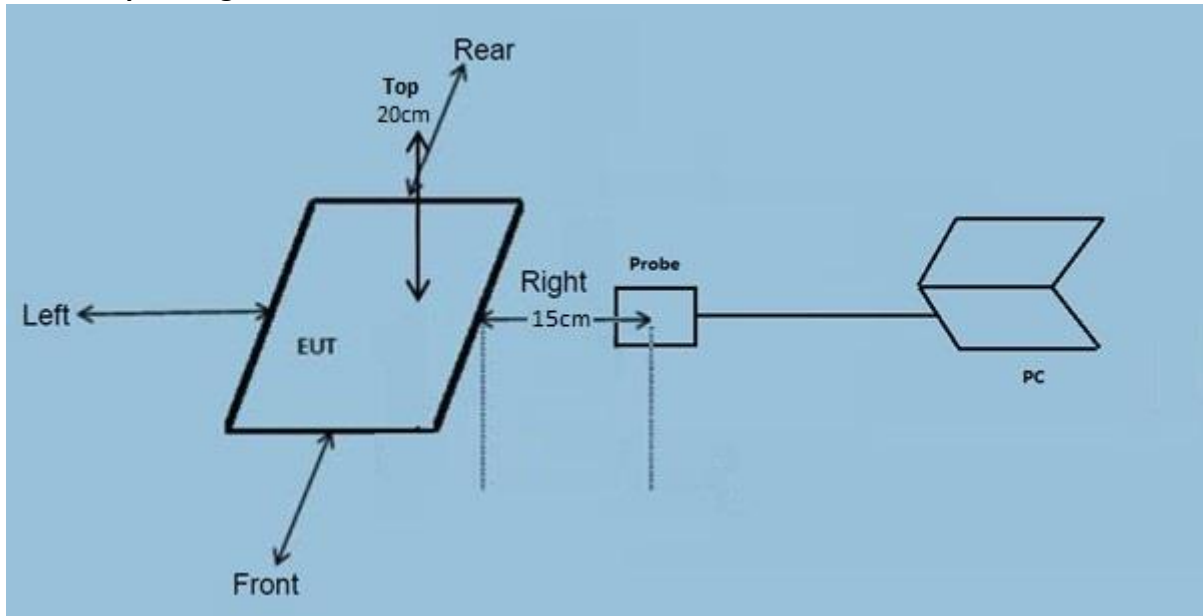
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Test Report

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 ²)	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

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