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MerchSource, LLC.

TEST REPORT

SCOPE OF WORK
SAR Assessment– 1015963, 101XXXX (where XXXX can be digits 0000-9999 which represent different customers)

REPORT NUMBER
220519059SZN-002

ISSUE DATE **[REVISED DATE]**
08 June 2022 [----------]

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DOCUMENT CONTROL NUMBER
RF Exposure

101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen.
Tel: (86 755) 8601 6288
Fax: (86 755) 8601 6751
www.intertek.com

Test Report

Applicant	:	MerchSource, LLC. 7755 Irvine Center Drive, Suite 100, Irvine, CA 92618, United States
Sample Description	:	Laptop Table with Storage and Qi Charging
Product Model No.	:	1015963, 101XXXX (where XXXX can be digits 0000-9999 which represent different customers)
Brand Name		Sharper Image
Electrical Rating	:	DC Reference input 12V/1.5A, 9V2A, 5V2A Wireless Output: 7.5W, 10W Max
Date Received	:	19 May 2022
Date Test Conducted	:	19 May 2022 to 06 June 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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Prepared and Checked By:

Mandy

Mandy Chen
Engineer

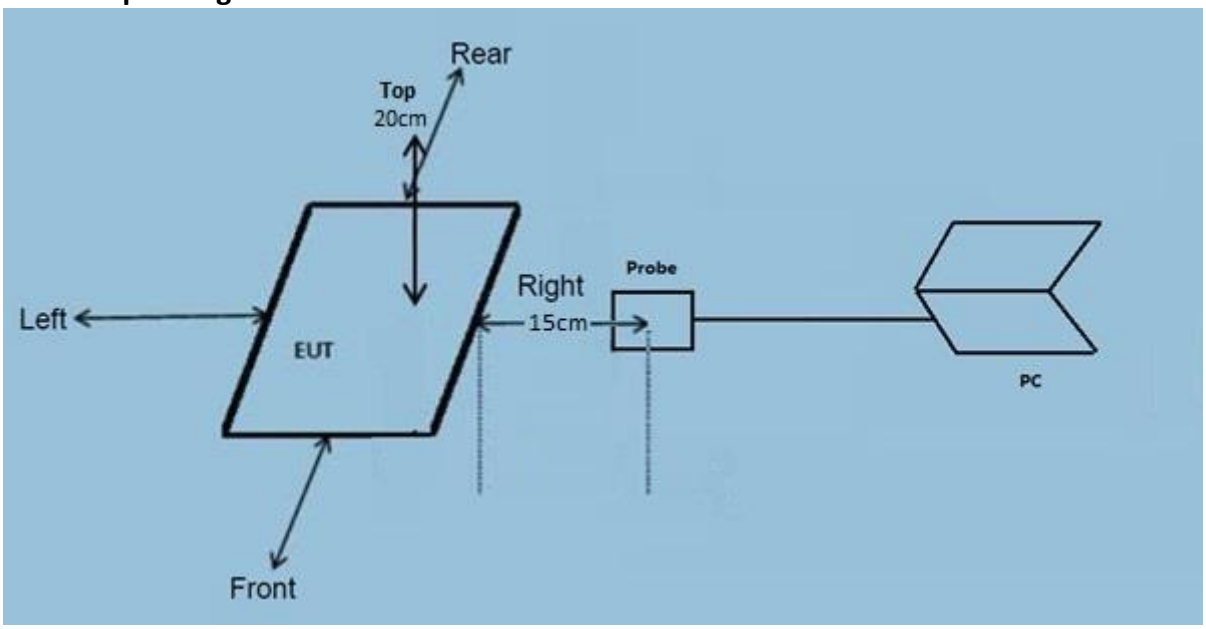
Approved By:

Ryan

Ryan RQ Chen
Project Engineer
Date: 08 June 2022

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
Mobile Phone (Provided by Intertek)	Samsung	S7
Adaptor (Provided by Intertek)	XIAOMI	POWER ADAPTER MODEL: MDY-09-EW
Type C cable	NIL (Provided by applicant)	Unshielded, Length 184cm
Wireless charging load (Provided by Intertek)	NIL	NIL

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. and only the worst-case data was shown in this report.

The Model: 101XXXX (where XXXX can be digits 0000-9999 which represent different customers) are the same as the Model: 1015963 in hardware and electrical aspect. The difference in model number serves as packaging and marketing purpose only.

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)
0.112-0.205	1% Battery Level	0.4262	0.4290	0.4273	0.4276	0.4260	1.63
0.112-0.205	50% Battery Level	0.4262	0.4290	0.4273	0.4276	0.4260	1.63
0.112-0.205	99% Battery Level	0.4268	0.4266	0.4275	0.4271	0.4251	1.63
0.112-0.205	Stand-by	0.4158	0.3575	0.3876	0.3771	0.3751	1.63

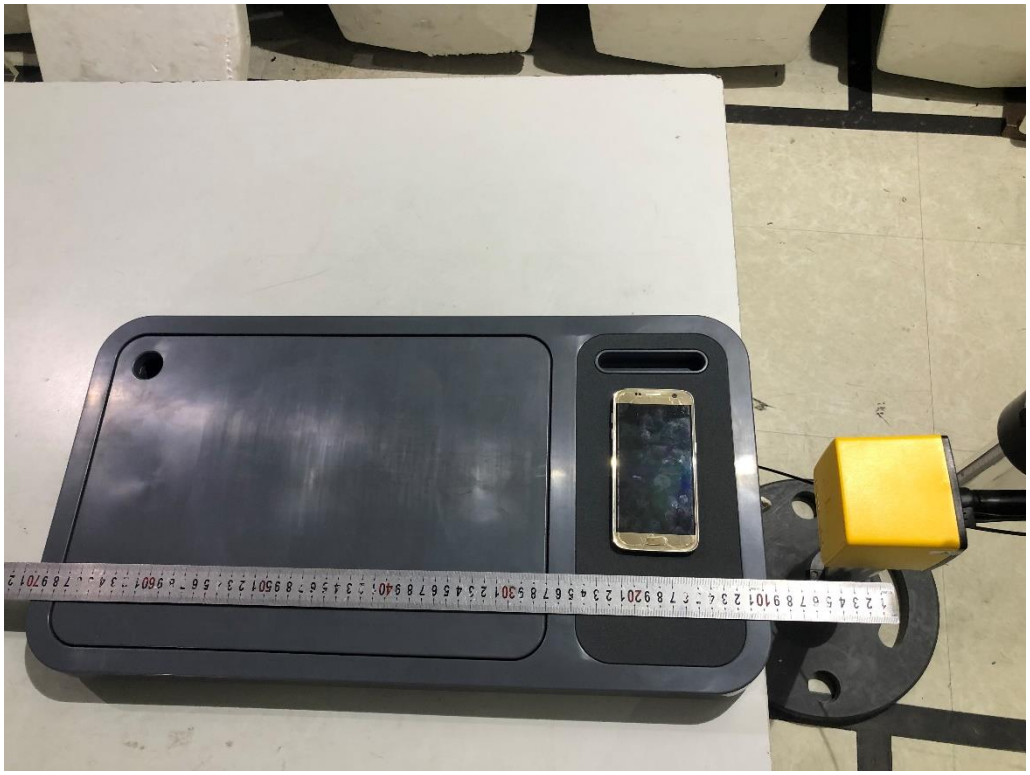
E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

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)
0.112-0.205	1% Battery Level	2.7550	2.7863	2.6959	2.7932	2.7717	614
0.112-0.205	50% Battery Level	2.7380	2.6973	2.8860	2.6645	2.8579	614
0.112-0.205	99% Battery Level	2.7892	2.6973	2.8860	2.6645	2.7711	614
0.112-0.205	Stand-by	2.6192	2.5272	2.5526	2.5590	2.5632	614

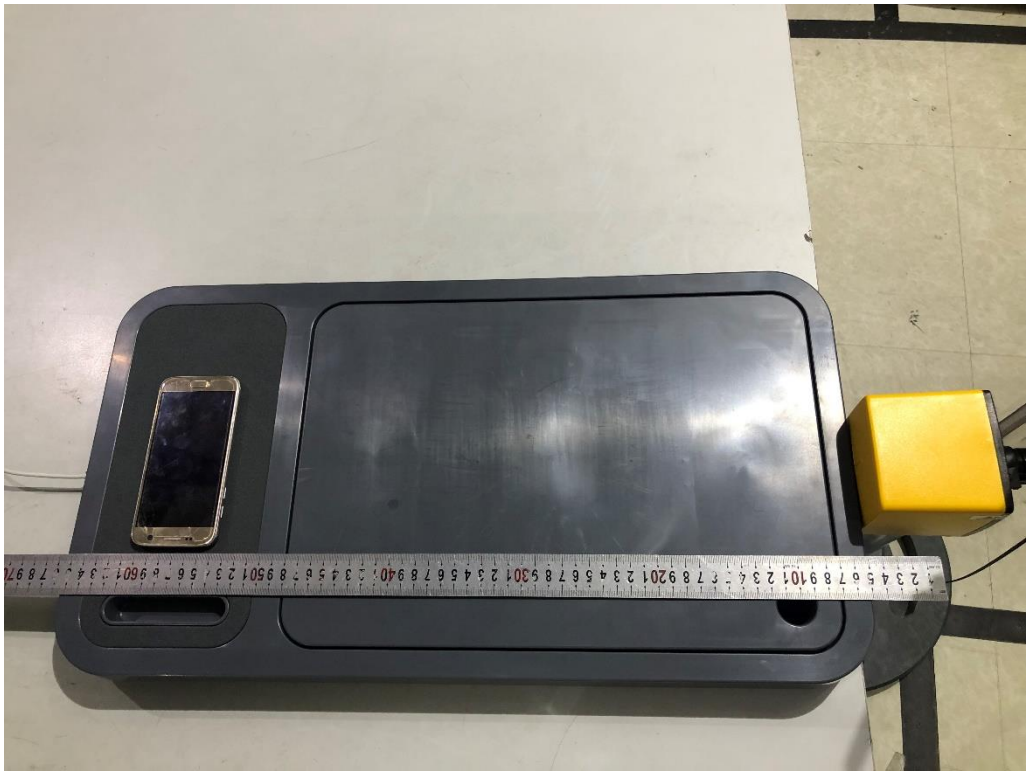
Configuration photo of the test:

H-Field & E-Field Strength test photos

Front

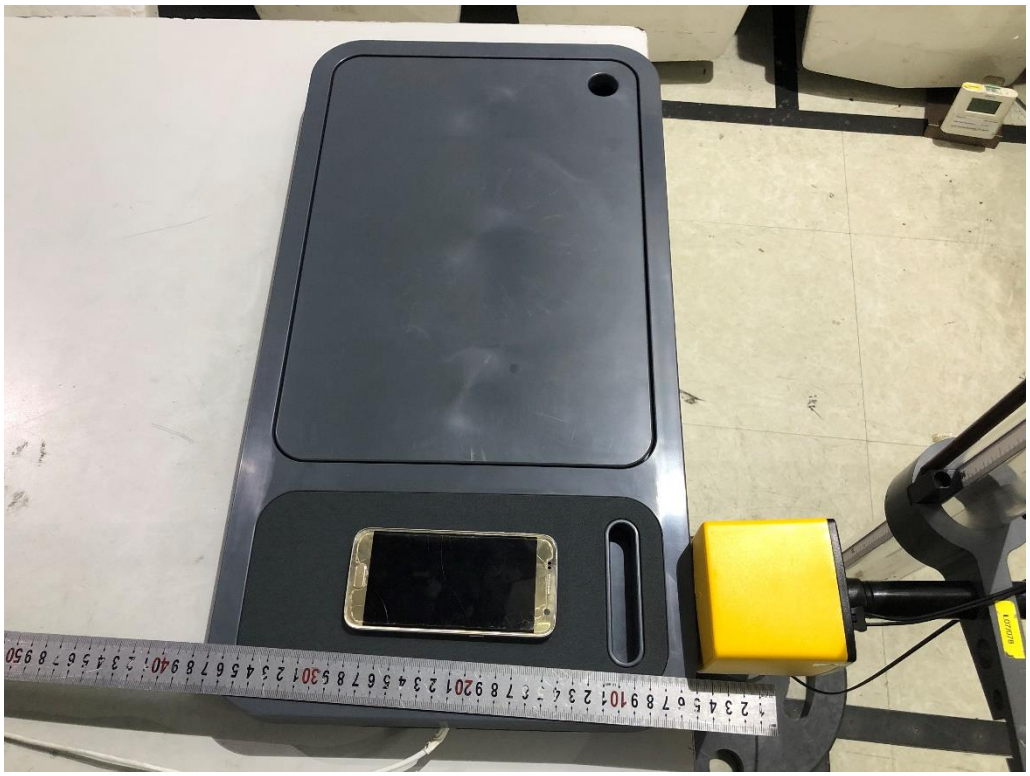


Rear

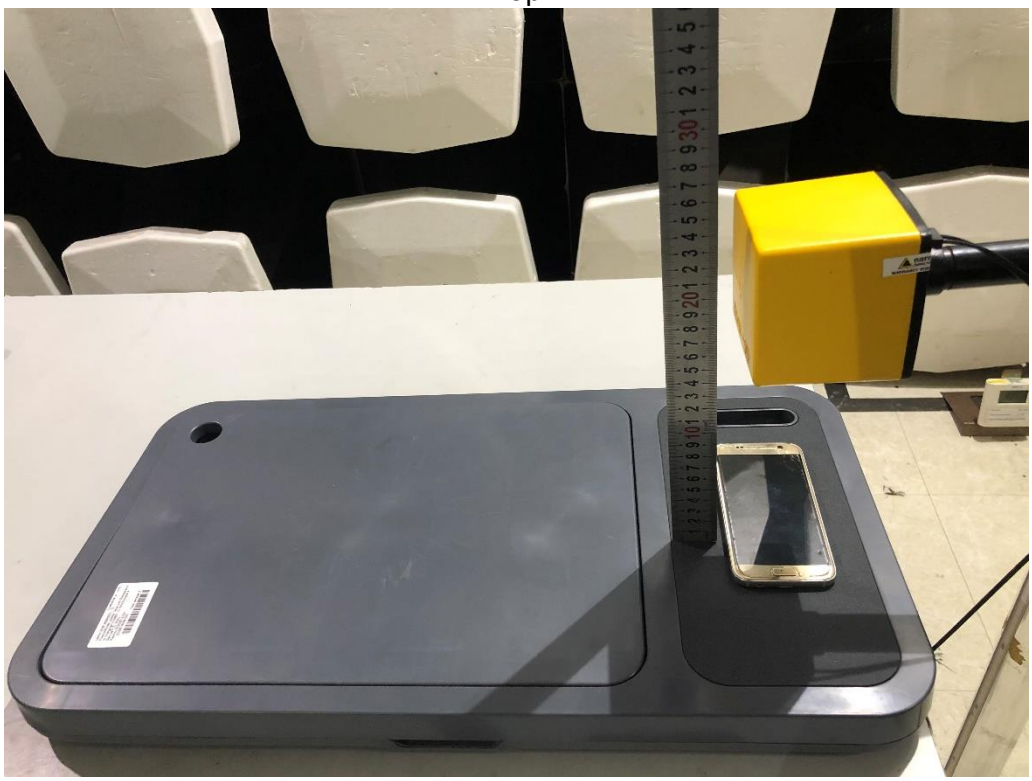


Left

Right



Top



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