

MerchSource, LLC.

TEST REPORT

SCOPE OF WORK

EMC TESTING—SEE PAGE 2

REPORT NUMBER

241015020GZU-002

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TEST REPORT

Applicant Name & : MerchSource, LLC.
Address : 7755 Irvine Center Drive, Suite 100, Irvine, California, United States
Manufacturing Site : Same as applicant
Intertek Report No: 241015020GZU-002
FCC ID: 2AEVM1019054

Test standards


47 CFR PART 1, Subpart I, Section 1.1310
KDB 680106 D01 Wireless Power Transfer v04

Sample Description


Product : Facial Cleanser 3 in 1
Model No. : 1019054, 101XXXX(where XXXX can be digits 0000-9999 which
represent different customers)
Electrical Rating : Input: DC 5V/1A
Serial No. : Not Labeled
Date Received : 15 October 2024
Date Test : 16 January 2025
Conducted

Prepared and Checked By

Approved By:



Elena Lei
Project Engineer



Dean Liu
Sr. Project Engineer

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TEST REPORT

CONTENT

TEST REPORT 1

CONTENT 3

1.0 TEST RESULT SUMMARY 4

2.0 GENERAL DESCRIPTION 5

2.1 PRODUCT DESCRIPTION.....5

2.2 TEST FACILITY5

2.3 EUT EXERCISING SOFTWARE.....5

2.4 SPECIAL ACCESSORIES5

2.5 EQUIPMENT MODIFICATION5

2.6 SUPPORT EQUIPMENT LIST AND DESCRIPTION.....6

3.0 EMF TEST 7

3.1 STANDARD REQUIREMENT.....7

3.2 TEST DATA.....8

4.0 TEST EQUIPMENT LIST 8

TEST REPORT

1.0 TEST RESULT SUMMARY

Classification of EUT: Class B

Test Item	Standard	Result
EMF	47 CFR PART 1, Subpart I, Section 1.1310	PASS

Remark:

1. When determining the test results, measurement uncertainty of tests has been considered.
2. Model numbers are identical in circuitry and electrical, mechanical and physical construction; the only differences are the color and model no. for trading purpose, Model 1019054 is used for testing.

TEST REPORT

2.0 General Description

2.1 Product Description

Operating Frequency	146-186KHz
Type of Modulation:	Load modulation
Antenna Type	Inductive loop coil antenna
Power Supply:	DC 5V/0.5A by Adapter
Power cord:	N/A

2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

2.3 EUT Exercising Software

Once it's powered, it keeps transmitting.

2.4 Special Accessories

N/A

2.5 Equipment Modification

Any modifications installed previous to testing by MerchSource, LLC. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

TEST REPORT

2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support equipment

Description	Model No.	Rating	Supplied by
Facial Cleanser 3 in 1(Receiving end of the base)	1019054	5W	applicant
Adapter	CH-P002	100-240~, 50/60Hz,	Intertek

Remark: Facial Cleanser 3 in 1(Receiving end of the base) was the client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively, The report keeps only the worst case.

Pre-test mode	Description	
Standby Mode	kept transmitting continuously	
Charging Mode	CH: Low	Facial Cleanser 3 in 1(Receiving end of the base) client is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously.
	CH: Middle	
	CH: High	

TEST REPORT

3.0 EMF TEST

3.1 Standard Requirement

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	F/300	6
1500-100000	--	--	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S)(mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	F/1500	30
1500-100000	--	--	1.0	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

TEST REPORT

3.2 Test Data

Input Voltage: 120V/60Hz
Ambient Condition: 22.6°C, 55.6%RH

Test distance: 20 cm.

H-Filed Strength:

Test Position	Probe Measure Result (A/m)			50% Limit (A/m)	Limit (A/m)
	Mobile in 1% battery power	Mobile in 50% battery power	Mobile in 99% battery power		
Side 1	0.066	0.058	0.062	0.815	1.63
Side 2	0.061	0.055	0.067	0.815	1.63
Side 3	0.071	0.073	0.070	0.815	1.63
Side 4	0.068	0.067	0.072	0.815	1.63
Top	0.059	0.062	0.071	0.815	1.63

MPE ratio:
 $0.073 \text{ (A/m)} / 0.815 \text{ (A/m)} = 0.0896$

4.0 Test Equipment List

Equip. No.	Equipment	Model	Manufacturer	Cal. date	Due date
EM007-03	Exposure Level Tester	ELT-400	NARDA	11/03/2024	10/03/2025

*****End of the test report*****