

# SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250400104102

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## RF Exposure Evaluation Report

<b>Application No.:</b>	SHCR2504001041ME
<b>FCC ID:</b>	2BO7DEM5BS
<b>Applicant:</b>	Changzhou Sifary Medical Technology Co., Ltd.
<b>Address of Applicant:</b>	No. 26 Yandanghe Road, Xinbei District 213000 Changzhou Jiangsu, China
<b>Manufacturer:</b>	Changzhou Sifary Medical Technology Co., Ltd.
<b>Address of Manufacturer:</b>	No. 26 Yandanghe Road, Xinbei District 213000 Changzhou Jiangsu, China
<b>Factory:</b>	Changzhou Sifary Medical Technology Co., Ltd.
<b>Address of Factory:</b>	No. 26 Yandanghe Road, Xinbei District 213000 Changzhou Jiangsu, China
<b>Equipment Under Test (EUT):</b>	
<b>EUT Name:</b>	Holder of scanner
<b>Model No.:</b>	EMBS-7
<b>Trade Mark:</b>	Eighteeth/ PRECISION TECH
<b>Standard(s) :</b>	47 CFR PART 1, Subpart I, Section 1.1310
<b>Date of Receipt:</b>	2025-04-28
<b>Date of Test:</b>	2025-05-08 to 2025-06-16
<b>Date of Issue:</b>	2025-06-23

<b>Test Result:</b>	Pass*
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\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Member of the SGS Group (SGS SA)



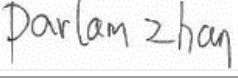
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Revision Record			
Version	Description	Date	Remark
00	Original	2025-06-23	/

Authorized for issue by:			
Tested By		 Wade Zhang/Project Engineer	
Approved By		 Parlam Zhan / Reviewer	



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### 3 General Information

#### 3.1 Details of E.U.T.

Power supply: Charger Power supply: AC100-240V 50/60Hz  
Charger Power output: DC 6V 3A  
Wireless Power: 5W

Operation frequency: 110kHz to 205kHz

Modulation type: Load modulation

Antenna type: Loop Antenna

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Resistance load	-	-	-



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### 3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab  
588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China  
Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
3. Sample source: sent by customer.

### 3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

### 3.5 Deviation from Standards

None

### 3.6 Abnormalities from Standard Conditions

None



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### 4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal date	Cal. Due date
1	Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2023-05-06	2026-05-05
2	Electromagnetic Field Probe	Narda	EHP-200AC	SHEM240-1	2025-03-31	2026-03-30

## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 10 cm for surrounding the device and 10 cm for above the top surface.

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz

\*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

## 5.2 E.U.T. Operation

### 5.2.1 Operating Environment

Temperature: 24.0 °C      Humidity: 52% RH      Atmospheric Pressure: 1015 mbar

### 5.2.2 EUT Operation:

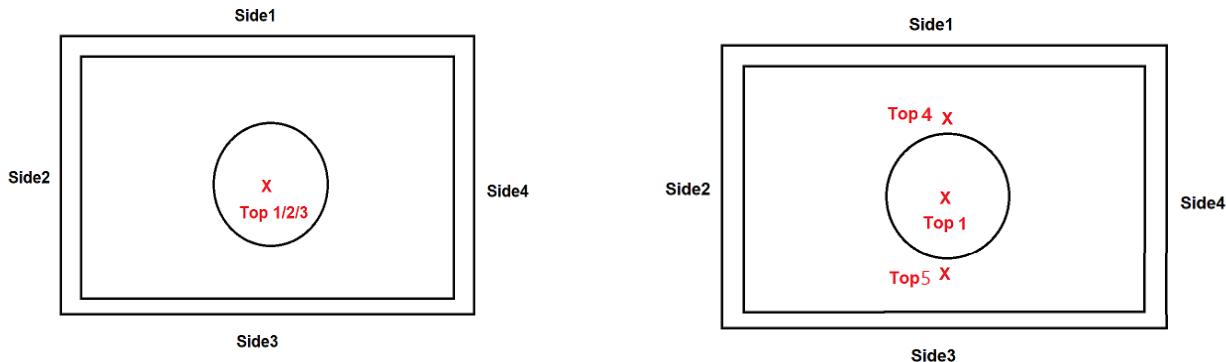
### 5.2.3 Simulation Load Mode

Test mode 00: Wireless Output(The load shall be set at full, half, empty load)

### Measurement Data:

Average 1: Test 3 times at the same location, taking the average value = (Top1+Top2+Top3)/3

Average 2: Average different points on the same surface = (Top1+Top4+Top5)/3



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## Test mode 00:

### Electric Field

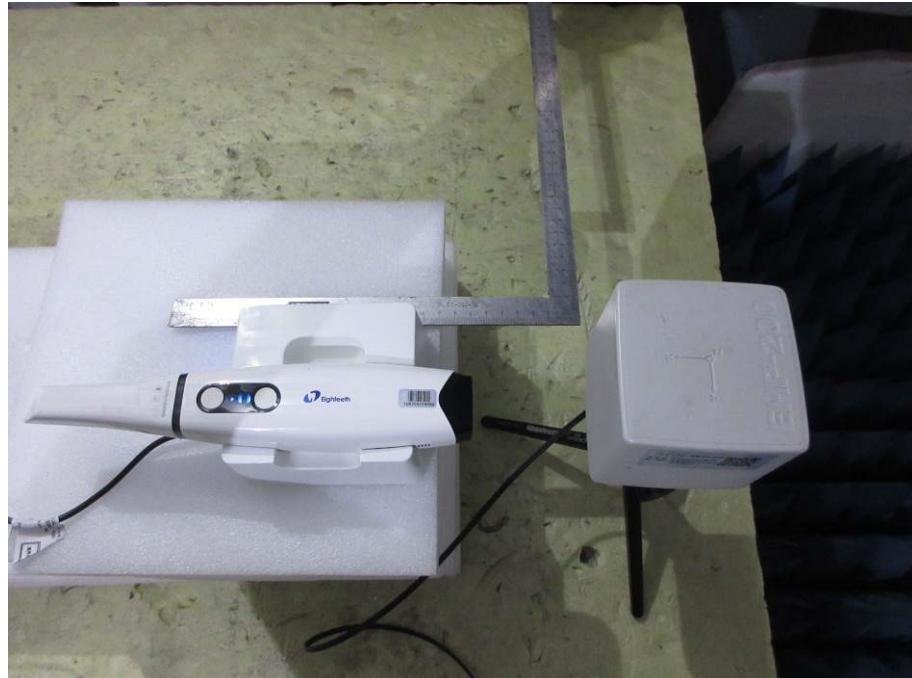
Test Distance (cm)	Test Position	Test Data (V/m)			Limit (V/m)	Result	
		Full Load	Half Load	Empty Load			
10	Side	1	1.034	0.525	0.365	614 50% Limit	Pass
		2	1.044	0.549	0.356		Pass
		3	0.935	0.388	0.285		Pass
		4	0.957	0.329	0.306		Pass
	Top	1	3.055	2.451	2.669		Pass
		2	2.105	2.089	2.128		Pass
		3	2.125	2.131	2.166		Pass
		4	2.141	2.098	2.152		Pass
		5	2.164	2.108	2.154		Pass
	Top Average	1+2+3	2.428	2.224	2.321		Pass
		1+4+5	2.453	2.219	2.325		Pass

### Magnetic Field

Test Distance (cm)	Test Position	Test Data (A/m)			Limit (A/m)	Result	
		Full Load	Half Load	Empty Load			
10	Side	1	0.102	0.041	0.033	1.63	Pass
		2	0.089	0.049	0.039		Pass
		3	0.058	0.046	0.037		Pass
		4	0.051	0.044	0.036		Pass
	Top	1	0.983	0.798	0.766		Pass
		2	0.936	0.804	0.529		Pass
		3	0.913	0.781	0.536		Pass
		4	0.972	0.697	0.499		Pass
		5	0.895	0.531	0.495		Pass
	Top Average	1+2+3	0.983	0.798	0.766		Pass
		1+4+5	0.936	0.804	0.529		Pass

## 6 Test Photo

Side1



Side2

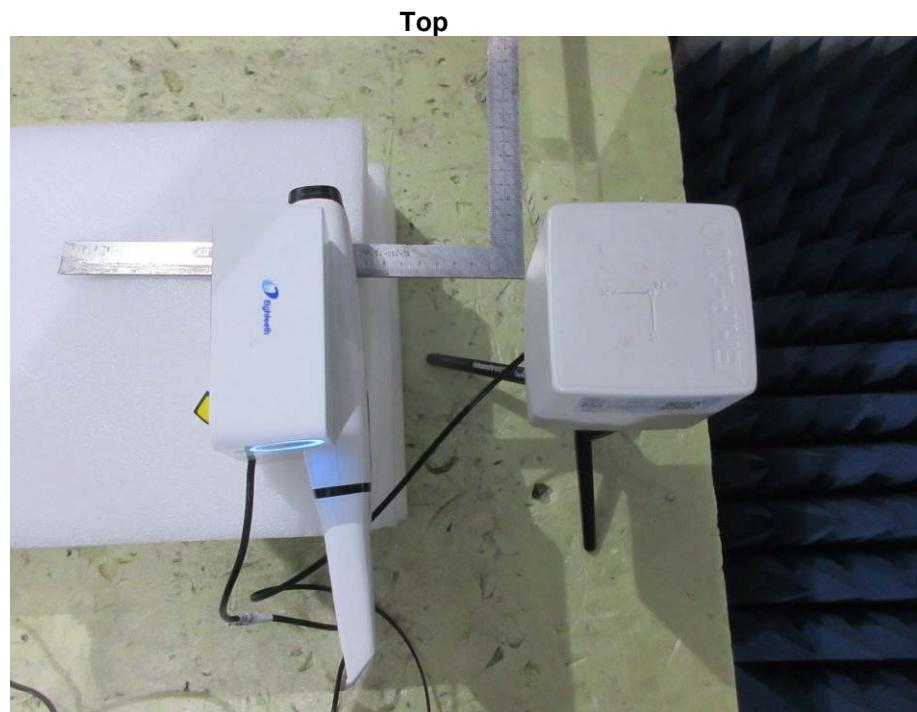


Side3



Side4





- End of the Report -