



Ziglite Smart Health Care Products Co., Ltd

CE EMC REPORT

Prepared For :	Ziglite Smart Health Care Products Co., Ltd Block B3,18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, H.K.
Product Name:	Hand Stretching Rehabilitation Therapy Device
Trademark:	
Main Test Model:	SHC
Additional Model:	SBA2, SHA, SKE
Prepared By :	BST Testing (Shenzhen) Co.,Ltd. No.7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Test Date:	Dec. 12, 2022 To Dec. 22, 2022
Date of Report :	Dec. 22, 2022
Report No.:	BSTXD221222298801ER



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TEST REPORT DECLARATION

Applicant : Ziglite Smart Health Care Products Co., Ltd
Address : Block B3,18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, H.K.
EUT Description : Hand Stretching Rehabilitation Therapy Device
Model Number : SHC
SBA2, SHA, SKE

Test Standards:

EN IEC 55014-1:2021
EN IEC 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021/AC:2022-01
EN IEC 55014-2:2021

The EUT described above is tested by BST Testing (Shenzhen) Co.,Ltd. EMC Laboratory to determine the maximum emissions from the EUT and ensure the EUT to be compliance with the immunity requirements of the EUT. BST Testing (Shenzhen) Co.,Ltd. EMC Laboratory is assumed full responsibility for the accuracy of the test results. Also, this report shows that the EUT technically complies with the 2014/30/EU directive and its amendment requirements.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

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Salon/Manager



1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Power Line Conducted Emission Test	PASS
Disturbance Power Test	PASS
Harmonic Current Emission Test	PASS
Voltage Fluctuations & Flicker Test	PASS
Electrostatic Discharge Test	PASS
RF Field Strength Susceptibility Test	PASS
Electrical Fast Transient/Burst Test	PASS
Surge Test	PASS
Injected Currents Susceptibility Test	PASS
Voltage Dips And Interruptions Test	PASS



2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

2.2. Measurement Uncertainty

(95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.2dB
Uncertainty for Power disturbance Test	3.0dB

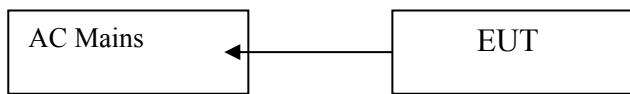


3. PRODUCT DESCRIPTION

3.1. EUT Description

Description : Hand Stretching Rehabilitation Therapy Device
Ziglite Smart Health Care Products Co., Ltd
Applicant : Block B3,18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, H.K.
Manufacturer : Ziglite Smart Health Care Products Co., Ltd
Block B3,18/F, Bonsun Industrial Building, 364-366 Sha Tsui Road, Tsuen Wan, H.K.
Model Number : SHC
SBA2, SHA, SKE

3.2. Block Diagram of EUT Configuration



3.3. Operating Condition of EUT

Test mode 1: ON

3.4. Test Conditions

Temperature: 23-26°C
Relative Humidity: 55-68 %

3.5. Modifications

No modification was made.



3.6.Abbreviations

AC	Alternating Current
AMN	Artificial Mains Network
DC	Direct Current
EM	ElectroMagnetic
EMC	ElectroMagnetic Compatibility
EUT	Equipment Under Test
IF	Intermediate Frequency
RF	Radio Frequency
rms	root mean square
EMI	Electromagnetic Interference
EMS	Electromagnetic Susceptibility

3.7.Performance Criterion

Criterion A: The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

Criterion B: After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

Criterion C: Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.



4. TEST EQUIPMENT USED

4.1. For Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS30	828985/018	Nov. 15, 22	1 Year
2.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	Nov. 15, 22	1 Year
3.	L.I.S.N.	Rohde & Schwarz	ESH2-Z5	834549/005	Nov. 15, 22	1 Year
4.	Conical	Emtek	N/A	N/A	N/A	N/A
5.	Voltage Probe	Schwarzbeck	TK9416	N/A	Nov. 15, 22	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6100214550	Nov. 15, 22	1 Year

4.2. For Disturbance Power Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS30	828985/018	Nov. 15, 22	1 Year
2.	Power Clamp	Rohde & Schwarz	MDS21	833711/025	Nov. 15, 22	1 Year
3.	Coaxial Switch	Anritsu	MP59B	6100214550	Nov. 15, 22	1 Year

4.3. For Harmonic / Flicker Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Harmonic and Flicker analyzer	Laplace	AC2000A	309709	Nov. 15, 22	1 Year

4.4. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	HAEFELY	PSD 1600	H911'292	Nov. 15, 22	1 Year

4.5. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	HP	8648A	3633A02081	Nov. 15, 22	1 Year
2.	Amplifier	A&R	500A100	17034	NCR	NCR
3.	Amplifier	A&R	100W/1000M1	17028	NCR	NCR
4.	Isotropic Field Monitor	A&R	FM2000	16829	NCR	NCR
5.	Isotropic Field Probe	A&R	FLW220100	16755	Nov. 15, 22	1 Year
6.	Biconic Antenna	EMCO	3108	9507-2534	NCR	NCR
7.	Log-periodic Antenna	A&R	AT1080	16812	NCR	NCR
8.	PC	N/A	486DX2	N/A	N/A	N/A

4.6. For Electrical Fast Transient/Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Burst Tester	HAEFELY	PEFT 4010	080981-16	Nov. 15, 22	1 Year



4.7. For Surge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	Nov. 15, 22	1 Year

4.8. For Injected Currents Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Simulator	EMTEST	CWS 500C	0900-12	Nov. 15, 22	1 Year
2.	CDN	EMTEST	CDN-M2	510010010010	Nov. 15, 22	1 Year
3.	VDN	EMTEST	CDN-M3	0900-11	Nov. 15, 22	1 Year
4.	Injection Clamp	EMTEST	F-2031-23MM	368	Nov. 15, 22	1 Year
5.	Attenuator	EMTEST	ATT6	0010222a	Nov. 15, 22	1 Year

4.9. For Magnetic Field Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic Field Tester	HEAFELY	MAG100.1	083858-10	Nov. 15, 22	1 Year

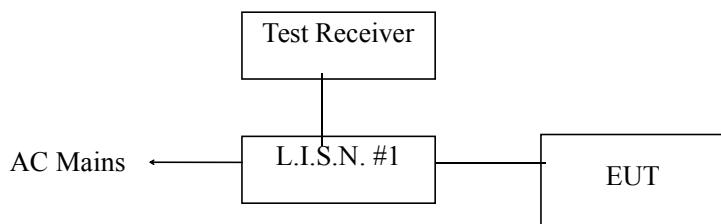
4.10. For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HEAFELY	PLINE 1610	083732-18	Nov. 15, 22	1 Year



5. POWER LINE CONDUCTED EMISSION TEST

5.1. Block Diagram of Test Setup



5.2. Test Standard

EN 55014-1:2021

5.3. Power Line Conducted Emission Limit

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	59 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

5.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet EN55014 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

5.4.1. EUT Information

Model Number : SHC
Serial Number : N/A
Manufacturer : Ziglite Smart Health Care Products Co., Ltd



5.5. Operating Condition of EUT

- 5.5.1. Setup the EUT and simulators as shown in Section 5.1.
- 5.5.2. Turn on the power of all equipments.
- 5.5.3. Let the EUT work in test modes (on) and test it.

5.6. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided 50ohm-coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the EN55014-1 regulations during conducted emission test.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150 kHz to 30 MHz is investigated. and all the scanning waveform is put in **Appendix I**.

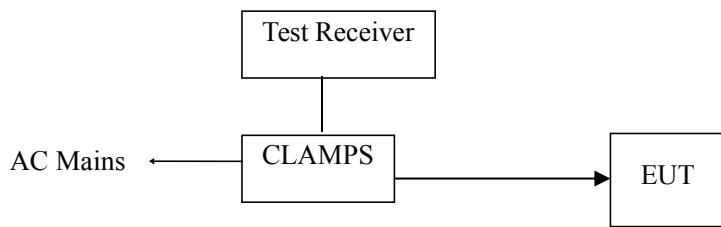
5.7. Test Result

PASS.



6. DISTURBANCE POWER TEST

6.1. Block Diagram of Test Setup



6.2. Disturbance Power Limit

All emanations from devices or system including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency MHz	Interference Power Limits dB(pW)	
	Quasi-peak Value	Average Value
30 ~ 300	45 Increasing Linearly with Frequency to 55 (Q.P.)	35 Increasing Linearly with Frequency to 45 (A.V.)

6.3. EUT Configuration on Test

The EN55014 regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test. Please refer to Section 3.2

6.4. Operating Condition of EUT

Same as conducted emission test, which is listed in Section 5.1., except the test set up replaced as Section 6.1.



6.5. Test Procedure

The EUT is placed on the ground and away from other metallic surface at least 0.4m. It is connected to the power mains through an extension cord of 6m min. The absorber clamp clamps the cord and moves from the far end to the EUT to measure the disturbing energy emitted from the cord.

The bandwidth of the test receiver is set at 120kHz.

All the test results are listed in Section 6.6.

The frequency spectrum from 30 MHz to 300 MHz is investigated.

As the peak value is too low against the limit, so the quasi-peak value and average value have omitted. All the scanning waveforms are attached in **Appendix II**.

6.6. Disturbance Power Test Result

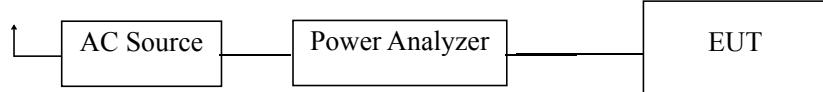
PASS.



7. HARMONIC CURRENT EMISSION TEST

7.1. Block Diagram of Test Setup

AC Mains



7.2. Test Standard and Limit

7.2.1. Test Standard

EN IEC 61000-3-2:2019/A1:2021

7.2.2. Limits

Table 12 Harmonic Current Test Limit (Class A)

Harmonic order (n)	Maximum permissible harmonic current (A)
Odd harmonics	
3	2.30
5	1.14
7	0.77
9	0.40
11	0.33
13	0.21
$15 \leq n \leq 39$	$0.15 \times 15/n$
Even harmonics	
2	1.08
4	0.43
6	0.30
$8 \leq n \leq 40$	$0.23 \times 8/n$



7.3. Test Procedure

The power cord of the EUT is connected to the output of the test system. Turn on the Power of the EUT and use the test system to test the harmonic current level.

7.4. Test Results

PASS.



8. VOLTAGE FLUCTUATIONS & FLICKER TEST

8.1. Block Diagram of Test Setup

Same as Section 7.1..

8.2. Test Standard

EN 61000-3-3:2013/A2:2021/AC:2022-01

8.3. Operating Condition of EUT

Same as Section 7.3.. The power cord of the EUT is connected to the output of the test system. Turn on the power of the EUT and use the test system to test.

Flicker Test Limit

Test items	Limits
Pst	1.0
dc	3.3%
dmax	4.0%
dt	Not exceed 3.3% for 500ms

8.4. Test Data

Flicker test Data

Test Mode: 1		
Items	Reading	Limit
dmax	0.04	4.0%
dc	0.02	3.3%
dt	0.05	Not exceed 3.3% for 500ms
Pst	0.001	1.0

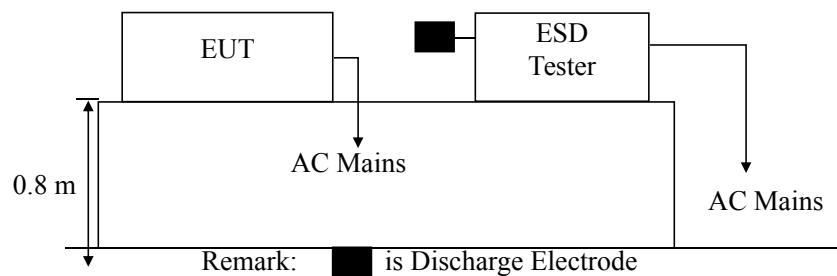
8.5. Test Results

PASS.



9. ELECTROSTATIC DISCHARGE TEST

9.1. Block Diagram of ESD Test Setup



9.2. Test Standard

EN IEC 55014-2:2021 (EN61000-4-2:2009)
Severity Level 3 for Air Discharge at 8KV
Severity Level 2 for Contact Discharge at 4KV

9.3. Severity Levels and Performance Criterion

9.3.1. Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

9.3.2. Performance criterion: B

9.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.



9.5. Operating Condition of EUT

- 9.5.1. Setup the EUT as shown in Section 9.1..
- 9.5.2. Turn on the power of all equipments.
- 9.5.3. Let the EUT work in test mode (on) and test it.

9.6. Test Procedure

9.6.1. Air Discharge:

This test is done on a non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT.

After each discharge, the discharge electrode shall be removed from the EUT.

The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

9.6.2. Contact Discharge:

All the procedure shall be same as Section 9.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

9.6.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

9.6.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

9.7. Test Results

PASS.

Please refer to the following page.



Electrostatic Discharge Test Results

BST Testing (Shenzhen) Co.,Ltd.

Applicant	:	Ziglite Smart Health Care Products Co., Ltd	Test Date	:	Dec. 22, 2022
EUT	:	Hand Stretching Rehabilitation Therapy Device	Temperature	:	22 °C
M/N	:	SHC	Humidity	:	50 %
Power Supply	:	AC 230V / 50Hz	Test Mode	:	on
Test Engineer	:				

Air Discharge: $\pm 8KV$ For each point positive 10 times and negative 10 times discharge.

Contact Discharge: $\pm 4KV$

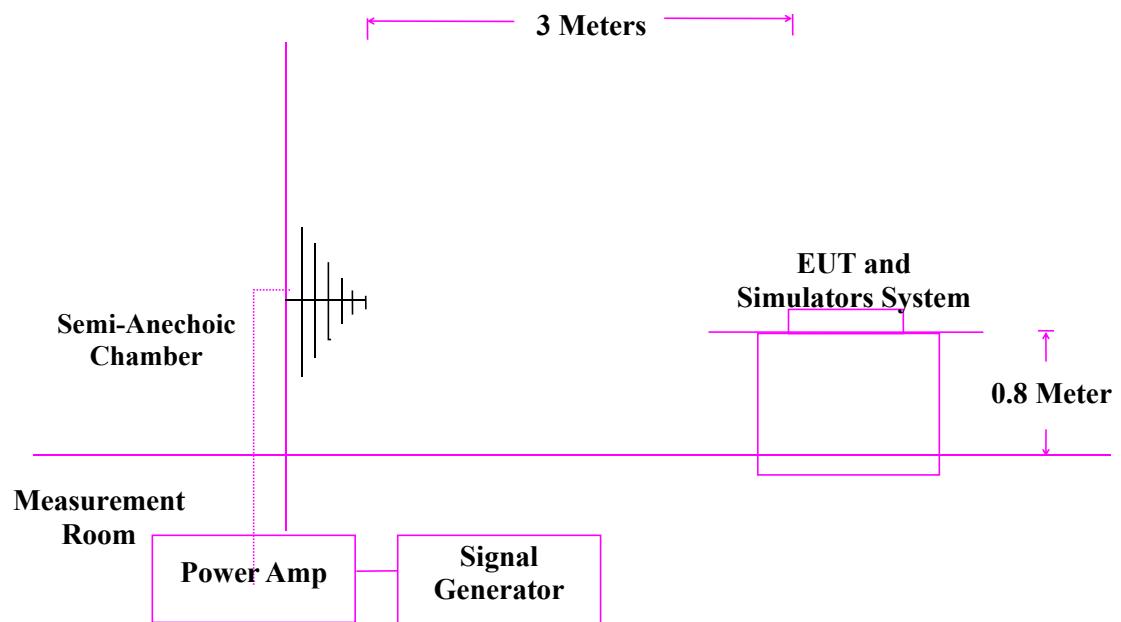
Location	<i>Kind</i> A-Air Discharge C-Contact Discharge	Result	
		A	C
Slots		A	PASS
Metal Parts		C	PASS
HCP		C	PASS
VCP		C	PASS

Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).



10. RF FIELD STRENGTH SUSCEPTIBILITY TEST

10.1. R/S Test Setup



10.2. Test Standard

EN IEC 55014-2:2021 (EN 61000-4-3:2006 + A1:2008 + A2:2010)
Severity Level 2 at 3V / m

10.3. Severity Levels and Performance Criterion

10.3.1. Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

10.3.2. Performance criterion : A



10.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2..

10.5.Operating Condition of EUT

Setup the EUT as shown in Section 10.1.. The operating condition of EUT are listed in section 3.3.

10.6.Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera is used to monitor the EUT.
All the scanning conditions are as follows :

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80 - 1000 MHz, 1.4GHz-2.7GHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1 Sec.

10.7.Test Results

PASS.

Please refer to the following page.



RF Field Strength Susceptibility Test Results

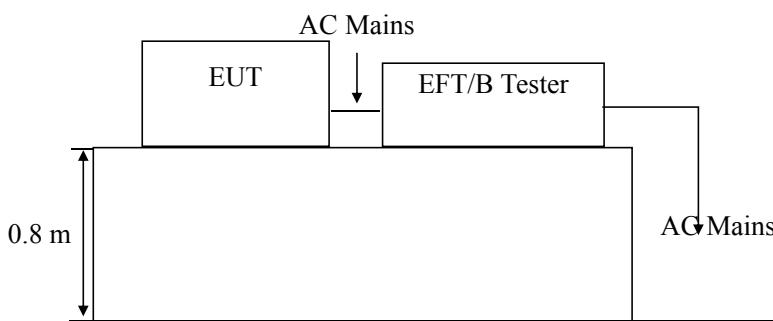
BST Testing (Shenzhen) Co.,Ltd.

Applicant	:	Ziglite Smart Health Care Products Co., Ltd	Test Date	:	Dec. 22, 2022
EUT	:	Hand Stretching Rehabilitation Therapy Device	Temperature	:	22 °C
M/N	:	SHC	Humidity	:	50 %
Power Supply	:	AC 230V / 50Hz	Test Mode	:	on
Test Engineer	:		Frequency Range :		80 MHz to 1000 MHz 1.4GHz-2.7GHz
Modulation:	<input checked="" type="checkbox"/> AM	<input type="checkbox"/> Pulse	<input type="checkbox"/> none	1 KHz	80%
Criterion : A					
	Frequency Rang :				
Steps		1%			1%
		Horizontal			Vertical
Front		Pass			Pass
Right		Pass			Pass
Rear		Pass			Pass
Left		Pass			Pass



11.ELECTRICAL FAST TRANSIENT/BURST TEST

11.1.EFT Test Setup



11.2.Test Standard

EN IEC 55014-2:2021 (EN61000-4-4:2012)
Severity Level 2 at 1KV

11.3.Severity Levels and Performance Criterion

11.3.1.Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
X	Special	Special

11.3.2.Performance criterion : B

11.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2..

11.5.Operating Condition of EUT

Setup the EUT as shown in Section 11.1.. The operating condition of EUT are listed in section 3.3.



11.6. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between the EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

11.6.1. For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

11.6.2. For signal lines and control lines ports:

It's unnecessary to test.

11.6.3. For DC output line ports:

It's unnecessary to test.

11.7. Test Results

PASS.

Please refer to the following page.



Electrical Fast Transient/Burst Test Results

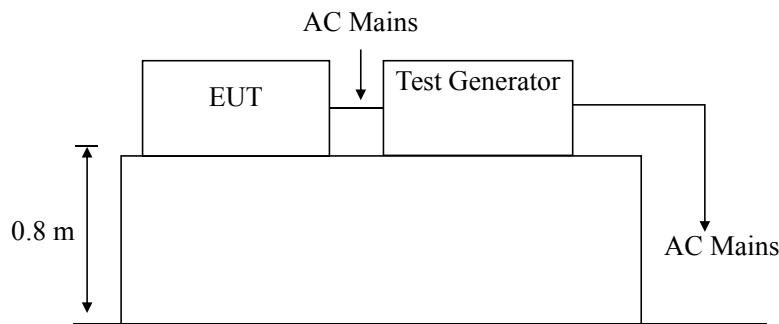
BST Testing (Shenzhen) Co.,Ltd.

Applicant	Ziglite Smart Health Care Products Co., Ltd				Test Date	Dec. 22, 2022			
EUT	Hand Stretching Rehabilitation Therapy Device				Temperature	22 °C			
M/N	SHC				Humidity	50 %			
Power Supply	AC 230V / 50Hz				Test Mode	on			
Test Engineer									
Inject Place	AC Mains								
Inject Line	Voltage KV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage KV	Inject Time(s)	Inject Method	Results
L	±1	120	Direct	PASS					
N	±1	120	Direct	PASS					
L N	±1	120	Direct	PASS					



12. SURGE TEST

12.1. Surge Test Setup



12.2. Test Standard

EN IEC 55014-2:2021 (EN61000-4-5:2014)
Severity Level 2 for Line to Neutral at 1.0KV

12.3. Severity Levels and Performance Criterion

12.3.1. Severity level

Severity Level	Open-Circuit Test Voltage KV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

Performance criterion : **B**

12.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2..

12.5. Operating Condition of EUT

12.5.1. Setup the EUT as shown in Section 12.1..

12.5.2. Turn on the power of all equipments.

12.5.3. Let the EUT work in test mode (On) and test it.



12.6.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 12.1
- 2) For line to line coupling mode, provide a 0.5KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

12.7.Test Results

PASS.

Please refer to the following page.



Surge Immunity Test Results

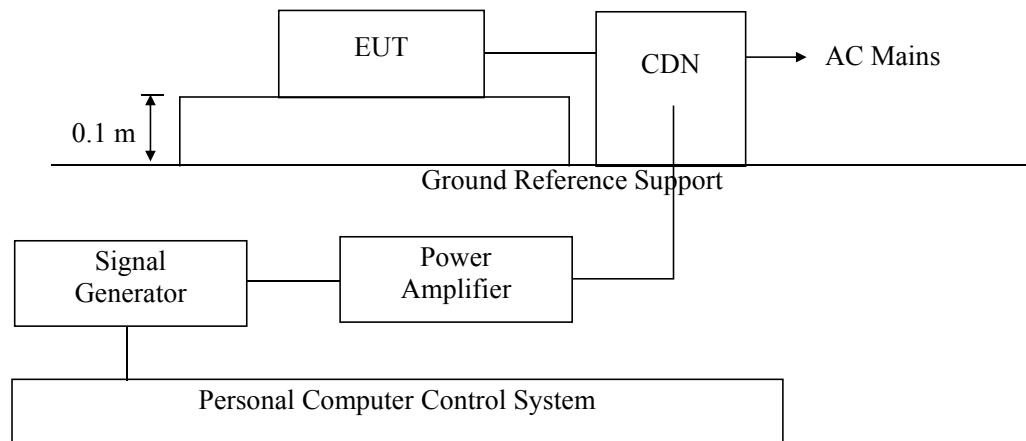
BST Testing (Shenzhen) Co.,Ltd.

Applicant	Ziglite Smart Health Care Products Co., Ltd				Test Date	Dec. 22, 2022
EUT	Hand Stretching Rehabilitation Therapy Device				Temperature	22 °C
M/N	SHC				Humidity	50%
Power Supply	AC 230V / 50Hz				Test Mode	on
Test Engineer						
Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (KV)	Result	
L-N	+	0	5	1.0	PASS	
	+	90	5	1.0	PASS	
	+	180	5	1.0	PASS	
	+	270	5	1.0	PASS	
	-	0	5	1.0	PASS	
	-	90	5	1.0	PASS	
	-	180	5	1.0	PASS	
	-	270	5	1.0	PASS	



13. INJECTED CURRENTS SUSCEPTIBILITY TEST

13.1. Block Diagram of Test AC Mains Setup



13.2. Test Standard

EN IEC 55014-2:2021 (EN61000-4-6:2014)
Severity Level 2 at 3 V (rms), 0.15MHz ~ 80MHz

13.3. Severity Levels and Performance Criterion

13.3.1. Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

13.3.2. Performance criterion: A

13.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2..

13.5. Operating Condition of EUT

Setup the EUT as shown in Section 13.1.. The operating condition of EUT are listed in section 3.3.



13.6. Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 13.1.
- 2) Let the EUT work in test mode and test it.
- 3) The EUT are placed on an insulating support 0.8m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 7) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

13.7. Test Results

PASS.

Please refer to the following page.



Injected Currents Susceptibility Test Results

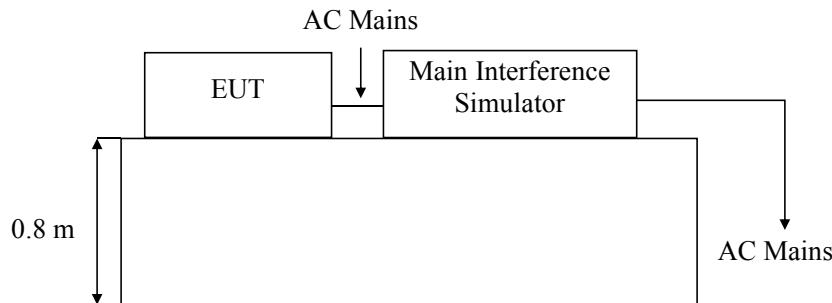
BST Testing (Shenzhen) Co.,Ltd.

Applicant	: Ziglite Smart Health Care Products Co., Ltd		Test Date	: Dec. 22, 2022	
EUT	: Hand Stretching Rehabilitation Therapy Device		Temperature	: 22 °C	
M/N	: SHC		Humidity	: 50 %	
Power Supply	: AC 230V / 50Hz		Test Mode	: on	
Test Engineer	:				
Frequency Range (MHz)	Injected Position	Strength	Criterion	Result	
0.15 ~ 20	AC Line	3V(rms), Unmodulated	A	PASS	
20 ~ 80	AC Line	3V(rms), Unmodulated	A	PASS	



14. VOLTAGE DIPS AND INTERRUPTIONS TEST

14.1. Voltage Dips and Interruptions Test Setup



Remark: Combination wave generator and decoupling network are included in test generator.

14.2. Test Standard

EN IEC 55014-2:2021 (EN61000-4-11:2004)

14.3. Severity Levels and Performance Criterion

14.3.1. Severity level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	0.5p
40	60	10p
70	30	25p

14.3.2. Performance criterion : C

14.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

14.5. Operating Condition of EUT

14.5.1. Setup the EUT as shown in Section 14.1..

14.5.2. Turn on the power of all equipments.

14.5.3. Let the EUT work in test mode (On) and test it.



14.6. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 14.1.
- 2) The interruptions is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

14.7. Test Result

PASS.

Please refer to the following page.



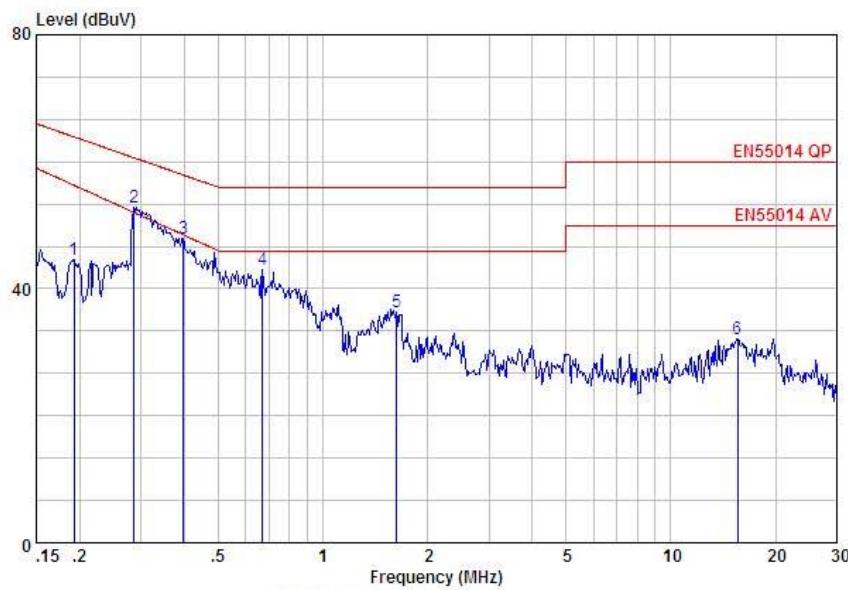
Voltage Dips And Interruptions Test Results

BST Testing (Shenzhen) Co.,Ltd.

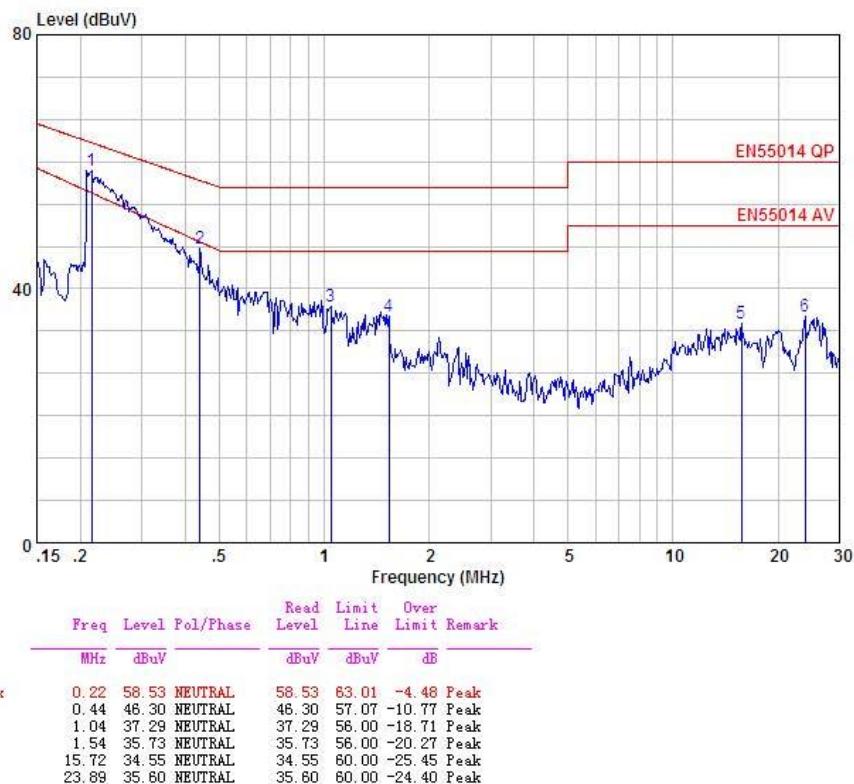
Applicant	Ziglite Smart Health Care Products Co., Ltd			Test Date	Dec. 22, 2022
EUT	Hand Stretching Rehabilitation Therapy Device			Temperature	22 °C
M/N	SHC			Humidity	50 %
Power Supply	AC 230V / 50Hz			Test Mode	on
Test Engineer					
Test Level % U_T	Voltage Dips & Short Interruptions % U_T	Duration (in period)	Phase Angle	Criterion	Result
0	100	0.5p	0° ~360°	C	PASS
40	60	10p	0° ~360°	C	PASS
70	30	25p	0° ~360°	C	PASS



APPENDIX I

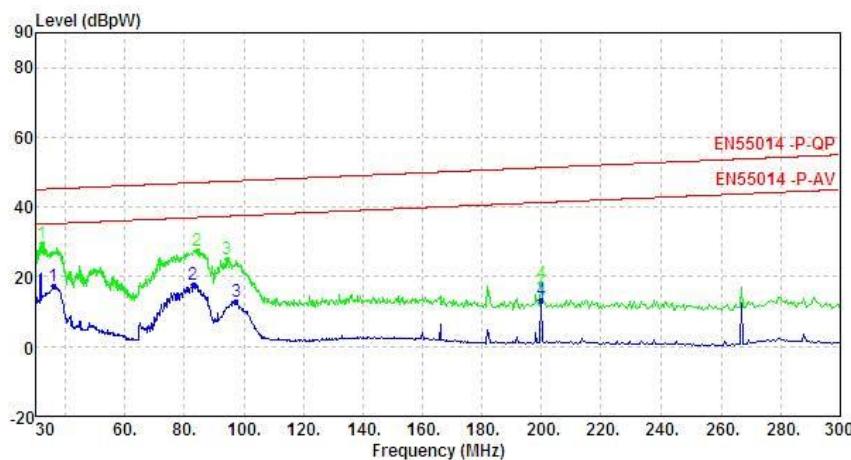


Freq MHz	Level dBuV	Pol/Phase	Read Level	Limit Line	Over Limit	Remark
			dBuV	dBuV	dB	
1	0.19	44.52 LINE	44.52	63.93	-19.41	Peak
2 max	0.29	52.91 LINE	52.91	60.63	-7.72	Peak
3	0.40	48.02 LINE	48.02	57.90	-9.88	Peak
4	0.67	43.04 LINE	43.04	56.00	-12.96	Peak
5	1.63	36.23 LINE	36.23	56.00	-19.77	Peak
6	15.55	32.07 LINE	32.07	60.00	-27.93	Peak





APPENDIX II



Site : Shenzhen BST Technology Co.,Ltd.

Condition:

: RBW:120.000KHz VBW:300.000KHz

Limit Over

Freq Level Line Limit Remark

	MHz	dBpW	dBpW	dB	
1	36.07	17.14	35.24	-18.10	Average
2	83.01	17.65	36.97	-19.32	Average
3	97.53	12.83	37.51	-24.68	Average
4	200.04	13.33	41.31	-27.98	Average

Site : Shenzhen BST Technology Co.,Ltd.

Condition:

: RBW:120.000KHz VBW:300.000KHz

Limit Over

Freq Level Line Limit Remark

	MHz	dBpW	dBpW	dB	
1	32.29	29.54	45.10	-15.56	Peak
2	84.36	27.58	47.02	-19.44	Peak
3	94.43	25.16	47.40	-22.24	Peak
4	200.04	18.03	51.31	-33.28	Peak



APPENDIX III



Photo 1 General Appearance of the EUT



Photo 2 General Appearance of the EUT



Photo 3

***** END *****