

Report No.: SZCR210602184301

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# TEST REPORT

**Application No.:** SZCR2106021843HS

Applicant: Theragun, Inc.

Address of Applicant: 6100 Wilshire Blvd. Suite 200 Los Angeles, CA 90048-5107, USA

Manufacturer: Theragun, Inc.

**Address of Manufacturer:** 6100 Wilshire Blvd. Suite 200 Los Angeles, CA 90048-5107, USA

**Equipment Under Test (EUT):** 

**EUT Name:** Massager

Model No.: RecoveryAir PRO Trade Mark: RecoveryAir

Standard(s): EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Date of Receipt: 2018-12-03 (for original report GZEM181200555801)

Date of Test: 2018-12-12 to 2018-12-19 (for original report GZEM181200555801)

Date of Issue: 2019-01-15 (for original report GZEM181200555801)

2021-07-12 (for new report SZCR210602184301)

**Test Result:** Pass\*

**EMC Laboratory Manager** 



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Remark						
01		2021-07-12		Original			

Authorized for issue by:			
	(eo_li		
	Leo Li/Project Engineer		
	Exic Fu		
	Eric Fu/Reviewer	_	



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#### **Test Summary** 2

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at Mains Terminals (150kHz- 30MHz)		EN 55032:2015	Class B	Pass		
Radiated Emissions (30MHz-1GHz)	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4	EN 55032:2015	Class B	Pass		
Harmonic Current Emission	211 331 133 17 13.2.1	EN IEC 61000-3-2:2019	Class A	N/A		
Voltage Fluctuations and Flicker		EN 61000-3-3:2013 +A1:2019	Clause 5 of EN 61000-3-3	Pass		

N/A: Not applicable

Immunity Part					
Item	Standard	Method	Requirement	Result	
Electrostatic Discharge		EN 61000-4-2:2009	4kV Contact Discharge	Pass	
Discharge			8kV Air Discharge		
Floorist Foot			1kV		
Electrical Fast Transients/Burst at		EN 61000-4-4:2012	5/50ns Tr/Td	Pass	
Power Port		211 01000 4 4.2012	5kHz Repetition Frequency	1 033	
Surge at Power Port	EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4	EN 61000-4-5:2014 +A11:2017	1.2/50µs Tr/Td		
			1kV Line to Line	Pass	
			2kV Line to Ground		
Conducted Immunity at Power Port (150kHz-80MHz)		EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass	
			0 % UT for 0.5per		
		EN 61000-4-11:2004	0 % UT for 1per		
Voltage Dips and Interruptions		+A11:2017	0 % UT for 250per	Pass	
		+A11.2017	70 % UT for 25per		
			UT is Supply Voltage		
Radiated Immunity (80MHz-6GHz)		EN 61000-4-3:2006 +A2:2010	3V/m, 80%, 1kHz Amp. Mod.	Pass	

N/A: Not applicable



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#### Remark:

Original model No. in report GZEM181200555801: 737R, 737A

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the color, artwork, labelling and intended use.

Therefore only one model 737R was tested in this report.

New model No. in report SZCR210602184301: RecoveryAir PRO

This test report SZCR210602184301 is an additional report copied from the original test report (Ref. No.: GZEM181200555801).

Compared with the original report, this report just changed the information of applicant and manufacturer, deleted the factory, added the trade mark and changed the product name and mode No.

Since according to the declaration of the applicant, the models in this report were identical in the electrical circuit design, layout, components used and internal wiring with the models in original report, only difference on model name.

And updated the below standards.

Original report standard The newest report standard

EN 301 489-1 V2.1.1 EN 301 489-1 V2.2.3 EN 301 489-17 V3.1.1 EN 301 489-17 V3.2.4

EN 61000-3-2:2014 EN IEC 61000-3-2:2019

EN 61000-3-3:2013 EN 61000-3-3:2013+A1:2019 EN 61000-4-5:2014 EN 61000-4-5:2014+A11:2017 EN 61000-4-11:2004 EN 61000-4-11:2004+A11:2017

EN 61000-4-3:2006 +A1:2008+A2:2010 EN 61000-4-3:2006+A2:2010

Reviewed the updated standards, all the technical requirements for the EUT are identical between the original and the newest standards' version.

Therefore original data were kept in this report.



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#### 4 **General Information**

#### 4.1 Details of E.U.T.

MODEL: KSAPV0361200300D5 Power Supply:

INPUT:AC 100-240V 50/60Hz 0.9A

OUTPUT:12.0V,3.0A

Test Voltage: AC 220V

2.4m x 2wires unscreened DC power cable Cable:

<108MHz Internal Source

Frequency

### 4.2 Description of Support Units

The EUT has been tested with corresponding accessories as below:

Supplied by SGS:

Description	Manufacturer	Model No.	SN/Certificate NO
Mobile Phone	SAMSUNG	GT-9500	RV1D82X8W9X





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### 4.3 Measurement Uncertainty

301489

No.	Item	Measurement Uncertainty
1	Conducted Disturbance	±3.63dB (9kHz to 150kHz)
I	Voltage at Mains Terminals	±3.22dB (150kHz to 30MHz)
2	Radiated Emissions	±5.0dB (30MHz-1GHz)
2	Radiated Emissions	±5.0dB (1GHz-6GHz)
3	Radiated Immunity	±2.18dB(80MHz-3GHz)
4	Conducted Immunity	±3.5dB(150kHz-230MHz)
5	Electrostatic Discharge	±6 %
6	EFT (Electrical Fast Transients)	±4 %
7	Surge Immunity	±6%
8	Voltage Dips and Interruptions	±4 %
9	Temperature	±0.4°C
10	Humidity	±1.3%
11	DC power	±0.5 %



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#### 4.4 Test Location

All tests were sub-contracted to:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District. Guangzhou, China 510663

Fax: +86 20 82075059 Tel: +86 20 82155555

#### 4.5 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA), Certificate No. 3816.01.

#### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.





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#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None

#### 4.8 Monitoring of EUT for All Immunity Test

Monitored the display of the EUT Visual:

Audio: N/A

Other: Monitored the Spectrum Analyser for any unintentional responses.





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#### **Equipment List** 5

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	Zhong Yu	8m x 3m x 3.8m	EMC0306	N/A	N/A
Two-Line V-Netwok	R&S	ENV216	EMC0118	2018-01-19	2019-01-18
LISN	R&S	ENV216	EMC2135	2018-09-21	2019-09-20
EMI Test Receiver	Rohde & Schwarz	ESCS30	EMC0506	2018-11-19	2019-11-18
Coaxial Cable	HangTianXing	2m	EMC0107	2017-07-23	2019-07-22
Voltage Probe	SGS	N/A	EMC0106	2018-04-04	2020-04-03
Conical Metal Housing	SGS-EMC	N/A	EMC0167	2018-04-19	2020-04-18
Test Software E3c	Audix	Ver. 5.4.1221b	GZE100-62	N/A	N/A

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver	Rohde & Schwarz	ESIB26	EMC0522	2018-01-19	2019-01-18
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC0056	2018-01-19	2019-01-18
Chamber cable	HangTianXing	N/A	EMC0542	2017-06-30	2019-06-30
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9160	EMC2025	2016-09-08	2019-09-07
Trilog Broadband Antenna 30MHz-1GHz	SCHWARZBECKME SS-ELEKTRONIK	VULB 9168	SEM003-18	2016-06-29	2019-06-28
Bi-log Type Antenna	Schaffner -Chase	CBL6112B	EMC0524	2016-09-08	2019-09-07
Bi-log Type Antenna	Schaffner -Chase	CBL6143	EMC0519	2017-05-04	2020-05-03
Horn Antenna 1GHz- 18GHz	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2016-09-09	2019-09-08
1GHz-26.5 GHz Pre- Amplifier	Agilent	8449B	EMC0521	2018-01-08	2019-01-07
Amplifier	HP	8447F	EMC2065	2018-06-01	2019-05-31
Pre-Amplifier MH648A	ANRITSU CORP	MH648A	EMC2086	2018-11-19	2019-11-18
Active Loop Antenna	EMCO	6502	EMC0523	2018-02-24	2019-02-23
High Pass Filter(915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2018-01-19	2019-01-18
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2018-01-08	2019-01-07



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10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2017-06-18	2019-06-18
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2017-12-19	2019-12-18
MXE EMI Receiver	Keysight	N9038A	EMC2139	2018-11-19	2019-11-18
EXA Signal Analyzer	Keysight	N9010A	EMC2138	2018-11-19	2019-11-18
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Voltage Fluctuations and Flicker						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
AC Power Source	California	50001iX	EMC0608	2018-04-08	2019-04-08	
Power Analyzer	California	PACS	EMC0607	2018-04-08	2019-04-08	
Test Software CTS4	California	Ver 4.14.0	GZE100-66	N/A	N/A	

Electrostatic Discharge							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
ESD Simulator	TESEQ AG	NSG 435	EMC2071	2018-03-07	2019-03-06		
ESD Ground Plane	SGS	3m x 3m	EMC0804	N/A	N/A		
Temperature & Humidity	Shanghai Meteorological Instrument Factory Co., Ltd.	ZJ1-2B	EMC0078	2018-07-05	2019-07-04		

Electrical Fast Transients/Burst at Power Port							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
EMC Immunity Test System	TESEQ AG	NSG 3060CDN3061I NA 6	EMC2072	2018-01-08	2019-01-07		
Oscilloscope	Tektronix	TDS3052C	EMC2055	2018-01-08	2019-01-07		
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A		

Surge at Power Port							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Modular Impulse Surge Generator	EMC PARTNER	MIG0603EN	EMC2059	2018-01-08	2019-01-07		



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EMC Immunity Test System	TESEQ AG	NSG 3060CDN3061I NA 6	EMC2072	2018-01-08	2019-01-07
Oscilloscope	Tektronix	TDS3052C	EMC2055	2018-01-08	2019-01-07
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A

Conducted Immunity at Power Port (150kHz-80MHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Test System Of CI	TESEQ AG	NSG 4070B-80	EMC2115	2018-07-04	2019-07-04			
Test Software NSG4070_Ctrl1	TESEQ AG	Ver.1.3.0.1	GZE100-72	N/A	N/A			
CDN S502A	TESEQ AG	CDN S502A	EMC2113	2017-06-19	2020-06-18			
CDN ST08A	TESEQ AG	CDN ST08A	EMC2112	2017-07-03	2020-07-02			
CDN USB3.0	TESEQ AG	CDN USB3.0	EMC2114	2017-06-19	2020-06-18			
Dual Directional coupler	Werlatone Inc.	C1795	EMC1105	2018-06-01	2019-06-01			
Oscilloscope	Tektronix	TDS3052C	EMC2055	2018-01-08	2019-01-07			
CDN	Elektronik- Feinmechanik	L-801:M2/M3	EMC2048	2018-08-13	2020-08-13			
CDN M2	Schaffner Chase	CDN-M2-16	EMC1107	2017-10-26	2020-10-25			
Current Probe	Schaffner Chase	CIP9136	EMC1116	2017-10-26	2020-10-25			
Current Probe	Schaffner Chase	CSP8445	EMC1117	2017-10-26	2020-10-25			

Voltage Dips and Interruptions							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
EMC Immunity Test System	TESEQ AG	NSG 3060CDN3061I NA 6	EMC2072	2018-01-08	2019-01-07		
Oscilloscope	Tektronix	TDS3052C	EMC2055	2018-01-08	2019-01-07		
Test Software WIN 3000	TESEQ AG	Ver 1.3.2	GZE100-68	N/A	N/A		



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Radiated Immunity (80MHz-6GHz)								
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
Compact 3m Semi- Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2016-12-04	2019-12-03			
Laser Probe Interface	RF Microwave Instrumentation	FI7000	EMC2089	N/A	N/A			
Open Switch And Control Unit	R&S	OSP130	EMC2090	N/A	N/A			
Broadband Amplifier(80MHz~1GHz/ 250W)	R&S	BBA150	EMC2091	2018-01-08	2019-01-07			
Broadband Amplifier(800MHz~3GHz /110W)	R&S	BBA150	EMC2092	2018-01-08	2019-01-07			
Signal Generator	R&S	SMB100A	EMC2093	2018-01-08	2019-01-07			
Laser Probe	RF Microwave Instrumentation	FL7006	EMC2094	2018-02-24	2019-02-23			
NRP-Z91 PowerSensor 6GHz	R&S	NPR-Z91	EMC2095	2018-01-08	2019-01-07			
NRP-Z91 PowerSensor 6GHz	R&S	NPR-Z91	EMC2096	2018-01-08	2019-01-07			
High-Gain Log- preiodicAntenna	R&S	HL046E	EMC2097	2016-02-15	2019-02-14			
RI Cable	R&S	7m	EMC2098	2018-05-23	2019-05-22			
Oscilloscope	Tektronix	TDS3052C	EMC2055	2018-01-08	2019-01-07			
Monitor System	Mitsubish Corp.	M-0552AB	EMC0909	N/A	N/A			
Test Software EMC32	Rohde & Schwarz	Ver. 9.26.00	GZE100-63	N/A	N/A			

General used equipment							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
DMM	Fluke	73	EMC0006	2018-07-20	2019-07-19		
DMM	Fluke	73	EMC0007	2018-07-19	2019-07-18		



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#### 6 **Emission Test Results**

#### 6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 55032:2015 Frequency Range: 150kHz to 30MHz

#### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: % RH Atmospheric Pressure: 1020 mbar

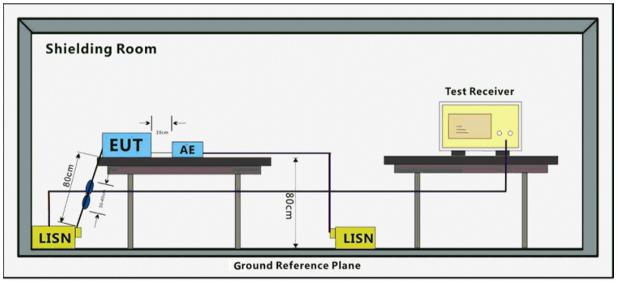
Pretest these a:Normal working\_Keep the EUT communicate with other auxiliary devices.

modes to find c:Operation(BT)\_Pair the device with Smartphone via Bluetooth. the worst case: d:Charging\_Keep the battery of the EUT in charging mode

a:Normal working\_Keep the EUT communicate with other auxiliary devices. The worst case

for final test:

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Measured Level = Read level + Cable Loss + LISN Factor



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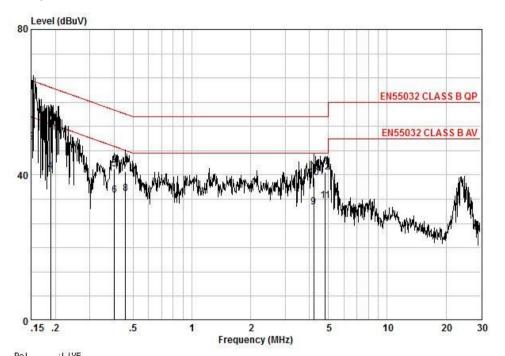
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#### Mode:a; Line:Live Line



No Model	LIVE						
Frequency MHz 0,15	read level dBuV 53,22	Cable Loss dB 0,10	LISN Factor dB 9,46	Measured level dBuV 62,78	Limit Line dBuV 66,00	Over limit dB -3,22	Remark QP
0,15	39,40	0,10	9,46	48,96	56,00	-7,04	AVERAGE
0,19	45,66	0,10	9,59	55,35	64,06	-8,71	QP
0,19	31,21	0,10	9,59	40,90	54,06	-13,16	AVERAGE
0,40	31,90	0,18	9,64	41,72	57,81	-16,10	QP
0,40	24,53	0,18	9,64	34,35	47,81	-13,47	AVERAGE
0,46	31,22	0,19	9,65	41,06	56,76	-15,70	QP
0,46	24,96	0,19	9,65	34,80	46,76	-11,96	AVERAGE
4,20	20,85	0,64	9,63	31,12	46,00	-14,88	AVERAGE
4,20	28,89	0,64	9,63	39,16	56,00	-16,84	QP
4,82	22,69	0,69	9,63	33,01	46,00	-12,99	AVERAGE
4,82	30,43	0,69	9,63	40,75	56,00	-15,25	QP



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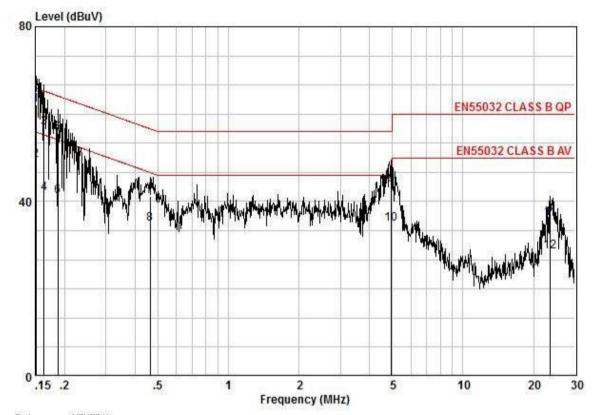
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#### Mode:a; Line:Neutral Line



Pol	: NEUTRAL
No	1
Mode I	i

Frequency MHz 0,15	read level dBuV 52.66	Cable Loss dB 0,10	LISN Factor dB 9,38	Measured level dBuV 62,14	Limit Line dBuV 65,96	Over limit dB -3,82	Remark OP
0.15	39,90	0,10	9.38	49,38	55,96	-6,58	AVERAGE
es de la companya de	47.34	0.10	- 10 m	56,88	oneiles.	-8,42	QP
0,16	41,04	0,10	9,44	50,00	65,30	-0,42	WF.
0,16	32,28	0,10	9,44	41,82	55,30	-13,48	AVERAGE
0.19	45,89	0,10	9,54	55,53	64,15	-8,62	QP
0,19	31,51	0,10	9,54	41,15	54,15	-13,00	AVERAGE
0,46	31,48	0.19	9,55	41,23	56,63	-15,40	QP
0,46	25,19	0,19	9,55	34,94	46,63	-11,69	AVERAGE
4,95	33,51	0,70	9,61	43,82	56,00	-12,18	QP
4,95	24,52	0,70	9,61	34,83	46,00	-11,17	AVERAGE
23,64	25,74	0,70	9,69	36,13	60,00	-23,87	QP
23,64	18,22	0,70	9,69	28,61	50,00	-21,39	AVERAGE



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### 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 55032:2015 Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

#### 6.2.1 E.U.T. Operation

Operating Environment:

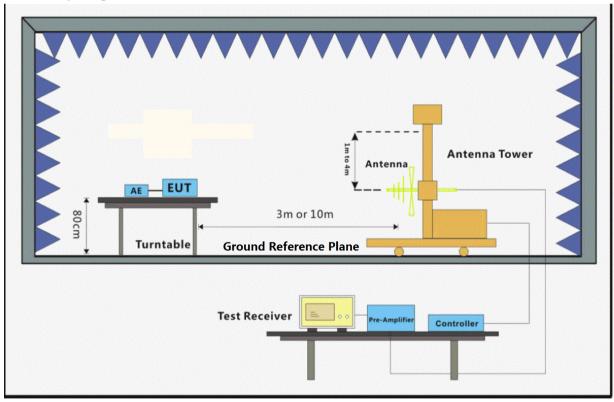
19.1 °C Temperature: Humidity: 54.7 % RH Atmospheric Pressure: 1020 mbar

a:Normal working Keep the EUT communicate with other auxiliary devices. Pretest these

modes to find c:Operation(BT)\_Pair the device with Smartphone via Bluetooth. the worst case: d:Charging\_Keep the battery of the EUT in charging mode The worst case d:Charging\_Keep the battery of the EUT in charging mode

for final test:

#### 6.2.2 Test Setup Diagram





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#### 6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Level=Read Level + Antenna Factor + Cable Loss - Preamp Factor



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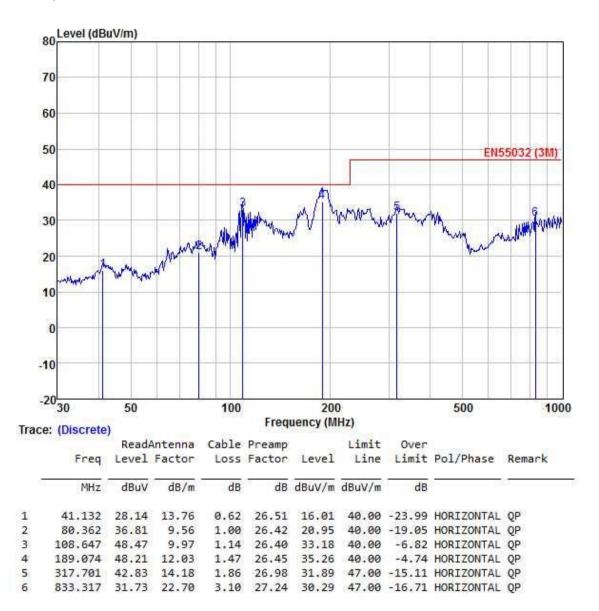
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#### Mode:d; Polarization:Horizontal





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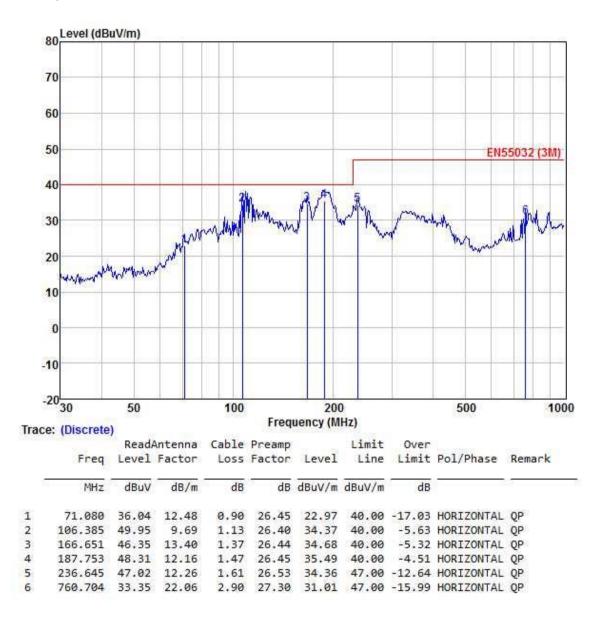
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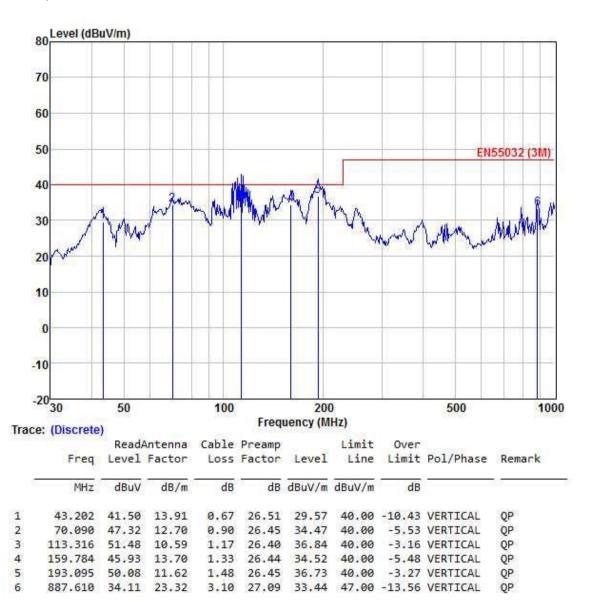
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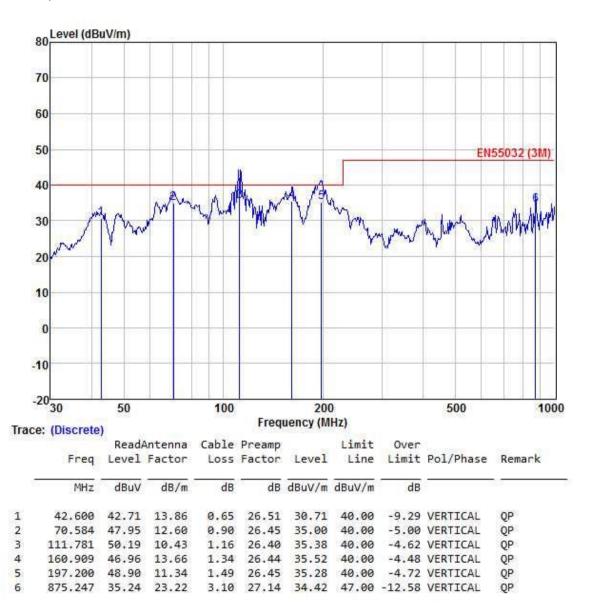
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#### 6.3 Harmonic Current Emission

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN IEC 61000-3-2:2019

Frequency Range: 100Hz to 2kHz

There is no need for Harmonics test to be performed on this product (rated power is less than 75W) in accordance with EN IEC 61000-3-2:2019.

For further details, please refer to Clause 7 of EN IEC 61000-3-2:2019 which states:

"For the following categories of equipment, limits are not specified in this standard.- equipment with a rated power of 75W or less, other than lighting equipment."



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### 6.4 Voltage Fluctuations and Flicker

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-3-3:2013+A1:2019

#### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.4 °C Humidity: 46.8 % RH Atmospheric Pressure: 1020 mbar

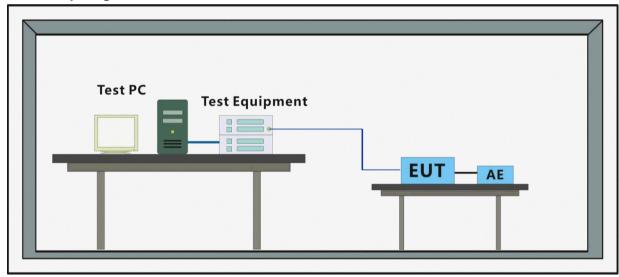
Pretest these a:Normal working\_Keep the EUT communicate with other auxiliary devices.

modes to find c:Operation(BT) Pair the device with Smartphone via Bluetooth. the worst case: d:Charging Keep the battery of the EUT in charging mode

The worst case a:Normal working\_Keep the EUT communicate with other auxiliary devices.

for final test:

#### 6.4.2 Test Setup Diagram





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#### 6.4.3 Measurement Data

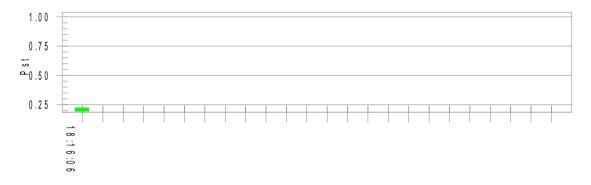
#### Flicker Test Summary per EN61000-3-3 (Run time)

**EUT:** Equipment under test Tested by: Tested by Test category: dt,dmax,dc and Pst (European limits) Test Margin: 100

Test duration (min): 10

**Test Result: Pass Status: Test Completed** 

#### Pst<sub>i</sub> and limit line **European Limits**



Parameter values recorded during the test:

229.82			
0.00	Test limit (%):	N/A	N/A
0	Test limit (mS):	500.0	Pass
0.00	Test limit (%):	3.30	Pass
80.0	Test limit ('%):	4.00	Pass
0.224	Test limit:	1.000	Pass
	0.00 0 0.00 0.08	0.00 Test limit (%):     0 Test limit (mS):     0.00 Test limit (%):     0.08 Test limit (%):	0.00 Test limit (%): N/A 0 Test limit (mS): 500.0 0.00 Test limit (%): 3.30 0.08 Test limit (%): 4.00



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## **Immunity Test Results**

Performance Criteria Description in EN 301 489-1 V2.2.3

i enomiance criteria Descri	ince Criteria Description in EN 301 469-1 V2.2.3				
Performance criteria for	During the test, the equipment shall:  • continue to operate as intended;				
continuous phenomena					
	not unintentionally transmit;				
	not unintentionally change its operating state;				
	not unintentionally change critical stored data.				
Performance criteria for transient phenomena	For all ports and transient phenomena with the exception described below, the following applies:				
	<ul> <li>The application of the transient phenomena shall not result in a change of the mode of operation (e.g. unintended transmission) or the loss of critical stored data.</li> </ul>				
	• After application of the transient phenomena, the equipment shall operate as intended.				
	For surges applied to symmetrically operated wired network ports intended to be connected directly to outdoor lines the following criteria applies:				
	• For products with only one symmetrical port intended for connection to outdoor lines, loss of function is allowed, provided the function is self-recoverable, or can be otherwise restored. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.				
	• For products with more than one symmetrical port intended for connection to outdoor lines, loss of function on the port under test is allowed, provided the function is self-recoverable. Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.				



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#### Performance Criteria Description in EN 301 489-17 V3.2.4

Criteria	During Test	After Test		
		(i.e. as a result of the application of the test)		
	Shall operate as intended.	Shall operate as intended.		
	(see note).	Shall be no degradation of performance.		
Α	Shall be no loss of function.	Shall be no loss of function.		
	Shall be no unintentional transmissions.	Shall be no loss of critical stored data.		
	May be loss of function.	Functions shall be self-recoverable.		
В		Shall operate as intended after recovering.		
		Shall be no loss of critical stored data.		
	May be loss of function.	Functions shall be recoverable by the operator.		
С		Shall operate as intended after recovering.		
		Shall be no loss of critical stored data.		

NOTE: Operate as intended during the test allows a level of degradation in accordance with Minimum performance level.

#### Minimum performance level

For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER, the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment.

#### Performance criteria for Continuous phenomena

The performance criteria A shall apply.

Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur during the test. Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur during the test.

#### Performance criteria for Transient phenomena

The performance criteria B shall apply, except for voltage dips greater than or equal to 100 ms and voltage interruptions of 5 000 ms duration, for which performance criteria C shall apply.

Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur as a result of the application of the test.

Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur as a result of the application of the test.



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#### 7.1 Electrostatic Discharge

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-2:2009

Performance Criterion:

Discharge Impedance: 330Ω/150pF

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge Discharge Period: 1 second minimum

#### 7.1.1 E.U.T. Operation

Operating Environment:

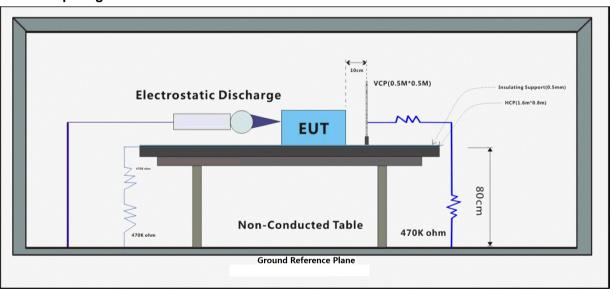
Temperature: 21.4 °C Humidity: 46.9 % RH Atmospheric Pressure: 1020 mbar

Test Mode: a:Normal working\_Keep the EUT communicate with other auxiliary devices.

b:Idle Keep the EUT standby.

c:Operation(BT)\_Pair the device with Smartphone via Bluetooth. d:Charging\_Keep the battery of the EUT in charging mode

#### 7.1.2 Test Setup Diagram





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#### 7.1.3 Test Results

Test Point:

All insulated enclosure and seams. Observations:

All accessible metal parts of the enclosure.

3. All side

Discharge type	Level (kV)	Polarity	Test Point	Result / Observations
Air Discharge	2,4,8	+	1	А
Air Discharge	2,4,8	-	1	А
Contact Discharge	4	+	2	А
Contact Discharge	4	-	2	А
Horizontal Coupling	4	+	3	А
Horizontal Coupling	4	-	3	А
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	А

#### Results:

A: No degradation in the performance of the EUT was observed.





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#### 7.2 Electrical Fast Transients/Burst at Power Port

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-4:2012

Performance Criterion: Repetition Frequency: 5kHz **Burst Period:** 300ms

#### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

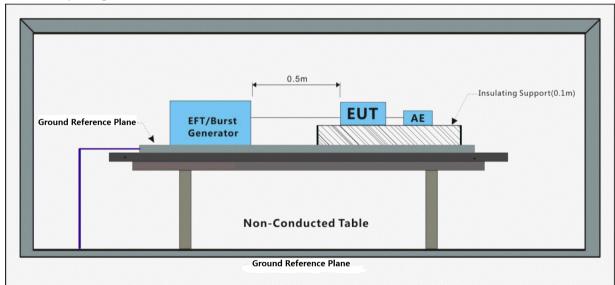
Test Mode: a:Normal working\_Keep the EUT communicate with other auxiliary devices.

b:Idle Keep the EUT standby.

c:Operation(BT) Pair the device with Smartphone via Bluetooth.

d:Charging\_Keep the battery of the EUT in charging mode

### 7.2.2 Test Setup Diagram



#### 7.2.3 Test Results

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC power port	1	+	CDN	A
AC power port	1	-	CDN	А

#### Results:

A: No degradation in the performance of the EUT was observed.



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### 7.3 Surge at Power Port

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-5:2014+A11:2017

Performance Criterion:

Interval: 60s between each surge

5 positive, 5 negative at 0°, 90°, 180°, 270°. No. of surges:

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

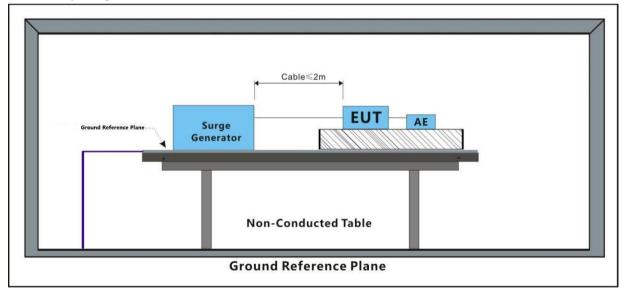
Test Mode: a:Normal working\_Keep the EUT communicate with other auxiliary devices.

b:Idle Keep the EUT standby.

c:Operation(BT)\_Pair the device with Smartphone via Bluetooth.

d:Charging\_Keep the battery of the EUT in charging mode

### 7.3.2 Test Setup Diagram





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#### 7.3.3 Test Results

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	0°	А
L-N	1	-	0°	А
L-N	1	+	90°	А
L-N	1	-	90°	А
L-N	1	+	180°	A
L-N	1	-	180°	A
L-N	1	+	270°	A
L-N	1	-	270°	A

#### Results:

A: No degradation in the performance of the EUT was observed.



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### 7.4 Conducted Immunity at Power Port (150kHz-80MHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-6:2014

Performance Criterion:

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size 1%

#### 7.4.1 E.U.T. Operation

Operating Environment:

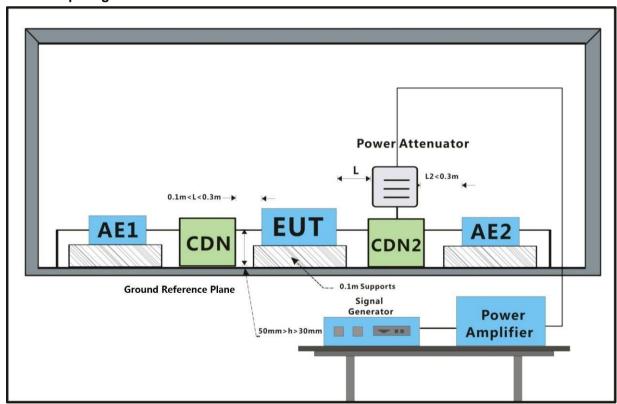
Temperature: Humidity: 55 % RH Atmospheric Pressure: 1020 °C mbar

Test Mode: a:Normal working Keep the EUT communicate with other auxiliary devices.

b:Idle\_Keep the EUT standby.

c:Operation(BT) Pair the device with Smartphone via Bluetooth. d:Charging Keep the battery of the EUT in charging mode

#### 7.4.2 Test Setup Diagram





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#### 7.4.3 Test Results

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3	CDN	2s	Α

#### Results:

A: No degradation in the performance of the EUT was observed.



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### 7.5 Voltage Dips and Interruptions

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-11:2004+A11:2017

Performance Criterion: 0% of UT (Supply Voltage) for 0.5 Periods:B; 0% of UT for 1 Periods:B;

0% of UT for 250 Periods:C; 70 % of UT for 25 Periods:C

No. of Dips / Interruptions: 3 per Level

Time between dropout 10s

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

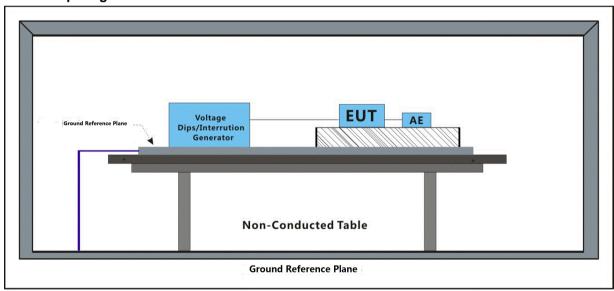
Test Mode: a:Normal working Keep the EUT communicate with other auxiliary devices.

b:Idle Keep the EUT standby.

c:Operation(BT)\_Pair the device with Smartphone via Bluetooth.

d:Charging\_Keep the battery of the EUT in charging mode

#### 7.5.2 Test Setup Diagram





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#### 7.5.3 Test Results

Level % UT	Phase (deg)	Duration	No. of Dips / Interruptions	Result / Observations
0	0°	0.5 Cycles	3	А
0	180°	0.5 Cycles	3	А
0	0°	1 Cycles	3	А
0	180°	1 Cycles	3	А
0	0°	250 Cycles	3	A
0	180°	250 Cycles	3	A
70	0°	25 Cycles	3	А
70	180°	25 Cycles	3	A

#### Results:

A: No degradation in the performance of the EUT was observed.





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#### 7.6 Radiated Immunity (80MHz-6GHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-3:2006+A2:2010

Performance Criterion:

Frequency Range: 80MHz to 6GHz

Antenna Polarisation: Vertical and Horizontal

Modulation: 1kHz,80% Amp. Mod,1% increment

#### 7.6.1 E.U.T. Operation

Operating Environment:

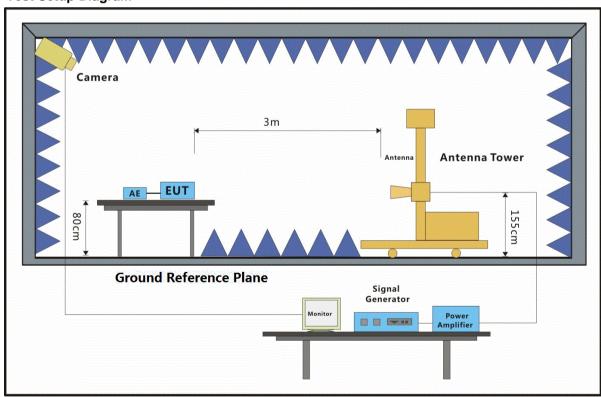
Temperature: Humidity: 50.7 % RH Atmospheric Pressure: 1020 °C mbar

Test Mode: a:Normal working\_Keep the EUT communicate with other auxiliary devices.

b:Idle\_Keep the EUT standby.

c:Operation(BT) Pair the device with Smartphone via Bluetooth. d:Charging Keep the battery of the EUT in charging mode

#### 7.6.2 Test Setup Diagram





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#### 7.6.3 Test Results

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-6GHz	3	Front	2s	А
80MHz-6GHz	3	Back	2s	А
80MHz-6GHz	3	Left	2s	A
80MHz-6GHz	3	Right	2s	Α
80MHz-6GHz	3	Тор	2s	A
80MHz-6GHz	3	Underside	2s	А

#### Results:

A: No degradation in the performance of the EUT was observed.



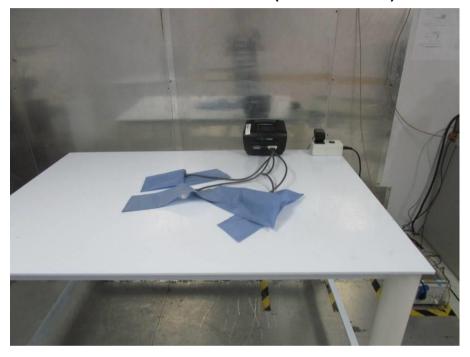


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#### 8 **Photographs**

## Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup



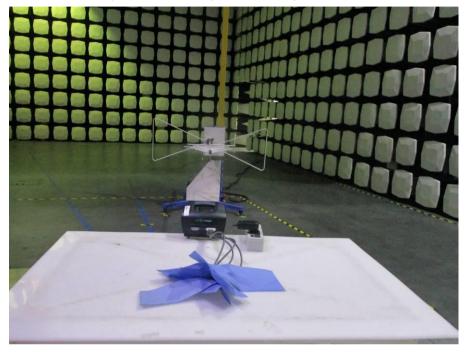




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### 8.2 Radiated Emissions (30MHz-1GHz) Test Setup



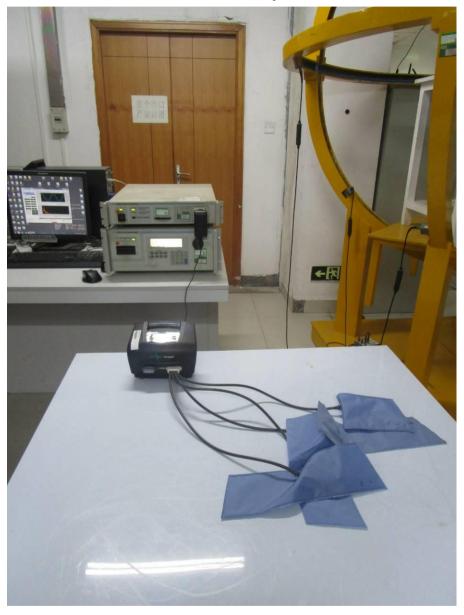




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### **Voltage Fluctuations and Flicker Test Setup**





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#### 8.4 Electrostatic Discharge Test Setup







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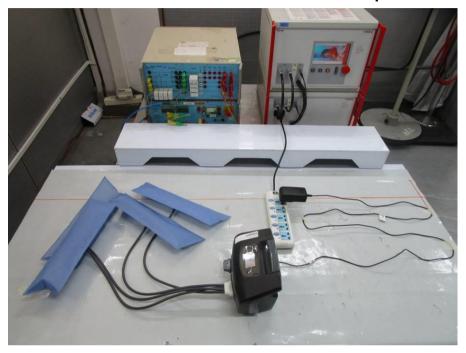
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#### 8.5 Electrical Fast Transients/Burst at Power Port Test Setup



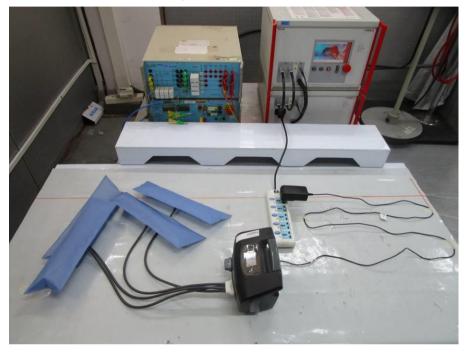




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### 8.6 Surge at Power Port Test Setup



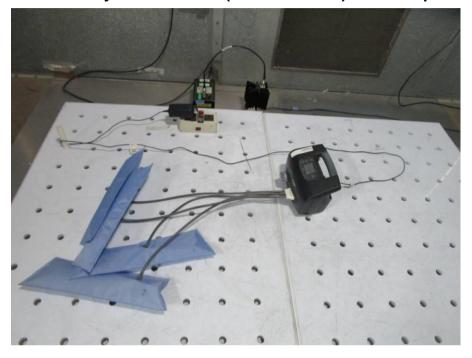




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#### 8.7 Conducted Immunity at Power Port (150kHz-80MHz) Test Setup





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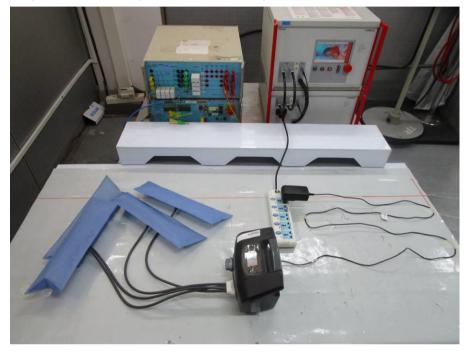
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## 8.8 Voltage Dips and Interruptions Test Setup



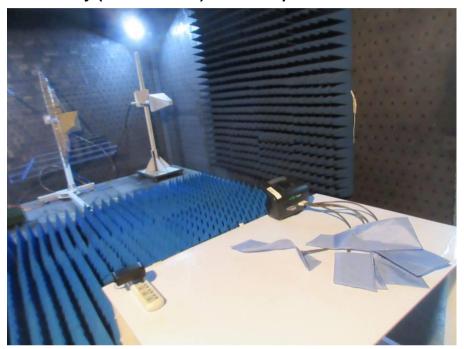


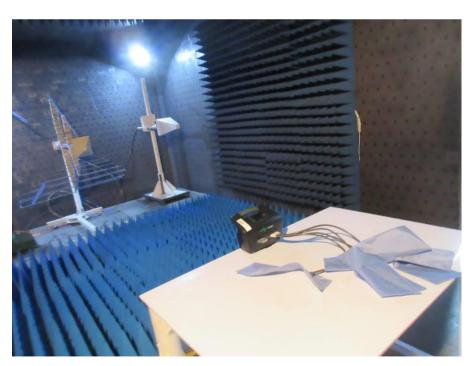


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#### Radiated Immunity (80MHz-6GHz) Test Setup







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#### 8.10 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZCR2106021843HS.

-- End of Report-

