



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240900343902

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TEST REPORT

Application No.: SZCR2409003439AT

Applicant: Anker Innovations Limited

Address of Applicant: Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong

Kong, China

Manufacturer: Anker Innovations Limited

Address of Manufacturer: Unit 56, 8th Floor, Tower 2, Admiralty Centre, 18 Harcourt Road, Hong

Kong, China

Factory: Ten Pao Electronics (Huizhou) Co., Ltd.

Address of Factory: Dongjiang Industrial Area, Shuikou Town, Huizhou City, Guangdong

Province, P.R.China

Equipment Under Test (EUT):

EUT Name: Anker SOLIX Solarbank 2 E1600 AC

Model No.: A17C2, A17C6 ♣

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

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

EN 301 489-17 V3.2.4

Date of Receipt: 2024-09-05

Date of Test: 2024-09-14 to 2024-09-27

Date of Issue: 2024-09-29

Test Result: Pass*

Keny Xu
EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version Chapter Date Modifier Remark						
01		2024-09-29		Original		

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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Test Summary 2

Emission Part						
Item	Standard	Method	Requirement	Result		
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)		EN 55032: 2015+A11:2020 +A1:2020	Class B	Pass		
Radiated Emissions (30MHz-1GHz)	EN 301 489-1	EN 55032: 2015+A11:2020 +A1:2020	Class B	Pass		
Radiated Emissions (Above 1GHz)	V2.2.3 EN 301 489-17 V3.2.4	EN 55032: 2015+A11:2020 +A1:2020	Class B	Pass		
Harmonic Current Emission		EN IEC 61000-3- 2:2019+A1:2021	Class A	N/A		
Voltage Fluctuations and Flicker		EN 61000-3- 3:2013+A1:2019 +A2:2021	Clause 5	N/A		

mmunity Part						
Item	Standard	Method	Requirement	Result		
Electrostatic Discharge		EN 61000-4-2:2009	4kV Contact Discharge 8kV Air Discharge	Pass		
Radiated Immunity (80MHz-6GHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	Pass		
Electrical Fast Transients Burst at AC Mains Power Port	EN 301 489-1	EN 61000-4-4:2012	1kV; 5/50ns Tr/Td; 5kHz Repetition Frequency	Pass		
Surge at AC Mains Power Port	V2.2.3 EN 301 489-17	EN 61000-4-5:2014 +A1:2017	1.2/50µs Tr/Td; 1kV Line to Line	Pass		
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)	V3.2.4	EN 61000-4-6:2014	3Vrms (emf),80%,1kHz Amp. Mod.	Pass		
Voltage Dips and Interruptions		EN IEC 61000-4- 11:2020	0 % UT for 0.5per;0 % UT for 1per;0 % UT for 250per;70 % UT for 25per;UT is Supply Voltage	N/A		

Remark:

- 1. N/A means not applicable.
- 2. The EUT does not support taking power from the power grid.



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Internal Source	Upper Frequency
Below 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5 times the highest frequency or 6 GHz, whichever is less

Declaration of EUT Family Grouping:

Model No.: A17C2, A17C6

Only the model A17C2 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on output power of the AC output grid-connected port.



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General Information

Details of E.U.T.

		,
	Power supply:	PV terminal:
		Max. PV input voltage: 60Vd.c., Max. PV input current: 16Ad.c.(per channel)
		Max. Isc. PV: 20Ad.c., Max. PV input power: 1200W
		Operation voltage range: 16-60Vdc
		Rechargable Li-ion Battery: 16Vdc 75Adc 800W 100Ah
		AC input:
		Max. AC input power: 2000W
		Max. AC input: 10Aac, 230Vac
		AC output (On-grid terminal):
		AC output power: 800W, AC rated output: 220/230/240Va.c. 50/60Hz
		Max. AC output current: 3.5Aa.c. 230Va.c.
		Off-grid terminal:
		Max. AC output power: 2000W, AC rated output: 220/230/240Va.c. 50/60Hz
		Max. AC output: 10Aa.c. 230Va.c.
		Battery terminal:
		Battery rated voltage: 16Vd.c., Max. charge current: 75Ad.c.
		Max. discharge current: 75Ad.c., Rated power: 800W, Rated capacity:100Ah
	Cable(s):	PV cable 299cm *4
		Grid AC cable 498cm *1
	Internal Source:	Greater than 108MHz

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Bi-directional power supply	ITECH	IT6018C-800-75	N/A
DC power supply	ZHAOXIN	KXN-6020D	REF. No.SEA27B00
DC power supply	Chroma	62012P-80-60	REF. No.SEA27C00
DC power supply	XANTREX	XFR 100-12	REF. No.SEA27A00
Mobile Phone	Xiaomi	2201122C	REF. No.SEA16N01



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Mains Power Port (150kHz-30MHz)	± 3.1dB
Radiated Emissions (30MHz-1GHz)	± 5.0dB
Radiated Emissions (Above 1GHz)	± 4.6dB
Electrostatic Discharge	± 6%
Radiated Immunity (80MHz-6GHz)	± 2.1dB
Electrical Fast Transients Burst at AC Mains Power Port	± 5.5%
Surge at AC Mains Power Port	± 5.5%
Conducted Immunity at AC Mains Power Port (150kHz-80MHz)	± 1.5dB

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

4.8 EMS Monitor

Visual: Monitor the output of the EUT.

Audio:



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Equipment List 5

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13		
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13		
Measurement Software	AUDIX	e3 V8.2014-6- 27a	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05		
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14		
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13		

Radiated Emissions (30MHz-1GHz)									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18				
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13				
BiConiLog Antenna	BiConiLog Antenna ETS-LINDGREN		SEM003-01	2023-09-16	2025-09-15				
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05				

Radiated Emissions (Above 1GHz)									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10				
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14				
Horn Antenna	lorn Antenna Rohde&Schwarz		SEM003-07	2023-07-23	2025-07-22				
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13				
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05				

Electrostatic Discharge								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
ESD Generator	TESEQ AG	NSG 437	SEM019-02	2024-03-19	2025-03-18			



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Radiated Immunity (80MHz-6GHz)									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Fully-Anechoic Chamber 2	Chang Zhou Zhong Shuo	854	SEM001-05	2023-06-19	2026-06-18				
Power Sensor	Rohde & Schwarz	NRP-Z91	SEM009-09	2024-03-15	2025-03-14				
Stacked LogPer Broadband Antenna	Schwarzbeck	STLP 9129	SEM003-25	N/A	N/A				
Signal Generator	Signal Generator Rohde & Schwarz		SEM006-11	2024-03-15	2025-03-14				
Broadband Amplifier	Rohde & Schwarz	BBA150- BC250	SEM005-12	2024-08-15	2025-08-14				
Broadband Amplifier	Rohde & Schwarz	BBA150-D110	SEM005-13	2024-03-15	2025-03-14				
Broadband Amplifier	Rohde & Schwarz	BBA150-E60	SEM005-16	2024-03-15	2025-03-14				
Measurement Software	Rohde & Schwarz	EMC32 V9.25.00	N/A	N/A	N/A				

Electrical Fast Transients Burst at AC Mains Power Port							
Equipment	nent Manufacturer Model No. Inventory No. Cal Date Cal Due						
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2024-03-15	2025-03-14		

Surge at AC Mains Power Port									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Ultra Compact Simulator	EM Test	UCS 500N7	SEM018-02	2024-03-15	2025-03-14				
High Speed Coupling/Decoupling Network	EM Test	CNI 508N2	SEM018-05	2024-03-29	2025-03-28				

Conducted Immunity at AC Mains Power Port (150kHz-80MHz)									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Shielding Room	TST PASS	N/A	SEM001-17	2024-09-11	2027-09-10				
RF-Generator	SCHAFFNER	NSG 2070	SEM006-01	2024-08-16	2025-08-15				
Coupling/Decoupling Network	SCHAFFNER	CDN M016	SEM007-03	2024-03-27	2025-03-26				



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General used equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23				
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17				



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Emission Test Results

6.1 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 55032: 2015+A11:2020+A1:2020

Limit:

	Conducted limit(dBμV)				
Frequency of emission(MHz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
*Decreases with the logarithm of t	the frequency.				
Detector: Peak for pre-scan (9kHz	z resolution bandwidth) 0.15MHz to	o 30MHz			

6.1.1 E.U.T. Operation

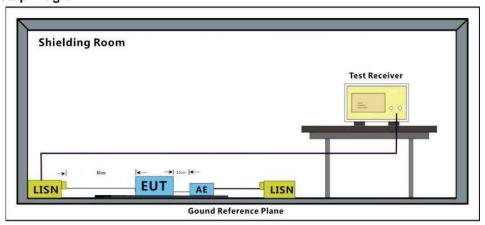
Operating Environment:

Temperature: 23.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Final test	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Pre-scan	08	Idle:Keep the EUT standby.

6.1.3 Test Setup Diagram





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6.1.4 Measurement Procedure and Data

Frequency range: 150kHz-30MHz

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.

The red line show in graphic is the limit in standard used in this section.

Remark: Measured Level= Read Level+ Cable Loss+ LISN Factor



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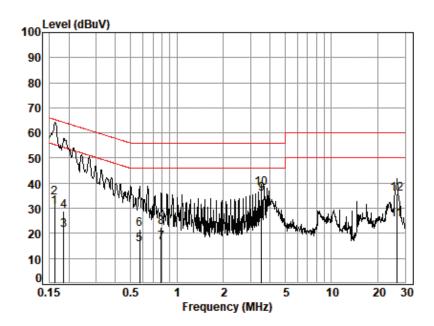


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Test Mode: 07; Line: Live line



Site : chamber Condition: Line : 03439AT Job No.

Test mode:

moue.							
	LISN	Cable	Read		Limit	0ver	
Freq	Factor	Loss	Level	Level	Line	Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.16	10.06	0.03	20.36	30.45	55.38	-24.93	Average
0.16	10.06	0.03	24.31	34.40	65.38	-30.98	QP
0.19	10.05	0.03	11.20	21.28	54.24	-32.96	Average
0.19	10.05	0.03	18.87	28.95	64.24	-35.29	QP
0.57	10.08	0.05	5.64	15.77	46.00	-30.23	Average
0.57	10.08	0.05	11.48	21.61	56.00	-34.39	QP
0.79	10.06	0.06	6.16	16.28	46.00	-29.72	Average
0.79	10.06	0.06	12.16	22.28	56.00	-33.72	QP
3.53	10.05	0.08	25.74	35.87	46.00	-10.13	Average
3.53	10.05	0.08	27.81	37.94	56.00	-18.06	QP
26.56	10.72	0.32	14.62	25.66	50.00	-24.34	Average
26.56	10.72	0.32	24.62	35.66	60.00	-24.34	QP
	Freq MHz 0.16 0.19 0.19 0.57 0.57 0.79 0.79 3.53 3.53 26.56	MHz AB 0.16 10.06 0.16 10.06 0.19 10.05 0.19 10.05 0.57 10.08 0.57 10.08 0.79 10.06 0.79 10.06 0.79 10.06 3.53 10.05 3.53 10.05 26.56 10.72	HTZ	HTZ	HZ dB dB dBuV dBuV 0.16 10.06 0.03 20.36 30.45 0.16 10.06 0.03 24.31 34.40 0.19 10.05 0.03 11.20 21.28 0.19 10.05 0.03 18.87 28.95 0.57 10.08 0.05 5.64 15.77 0.57 10.08 0.05 5.64 15.77 0.57 10.08 0.05 11.48 21.61 0.79 10.06 0.06 6.16 16.28 0.79 10.06 0.06 6.16 16.28 0.79 10.06 0.06 12.16 22.28 3.53 10.05 0.08 25.74 35.87 3.53 10.05 0.08 27.81 37.94 26.56 10.72 0.32 14.62 25.66	LISN Cable Read Limit Line	LISN Cable Read Limit Over Freq Factor Loss Level Level Line Limit



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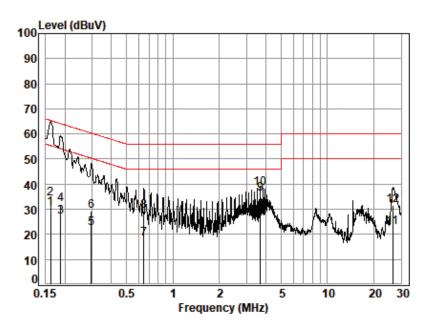


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Test Mode: 07: Line: Neutral Line



: chamber Condition: Neutral Job No. : 03439AT

Test mode:

	Freq	LISN Factor	Cable Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	9.56	0.03	20.81	30.40	55.38	-24.98	Average
2	0.16	9.56	0.03	24.56	34.15	65.38	-31.23	QP
3	0.19	9.55	0.03	17.31	26.89	54.11	-27.22	Average
4	0.19	9.55	0.03	22.33	31.91	64.11	-32.20	QP
5	0.30	9.55	0.04	12.77	22.36	50.37	-28.01	Average
6	0.30	9.55	0.04	19.65	29.24	60.37	-31.13	QP
7	0.65	9.57	0.05	8.72	18.34	46.00	-27.66	Average
8	0.65	9.57	0.05	19.72	29.34	56.00	-26.66	QP
9	3.67	9.55	0.08	26.54	36.17	46.00	-9.83	Average
10 q	3.67	9.55	0.08	28.82	38.45	56.00	-17.55	QP
11	26.56	10.22	0.32	12.13	22.67	50.00	-27.33	Average
12	26.56	10.22	0.32	21.13	31.67	60.00	-28.33	QP



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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+A11:2020+A1:2020

Measurement Distance: 3m

Limit:

EDEOUENCY (MILE)	dBuV/m (At 10m)	dBuV/m (At 3m)			
FREQUENCY (MHz)	Class B	Class B			
30 ~ 230	30	40			
230 ~ 1000	37	47			
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz					

6.2.1 E.U.T. Operation

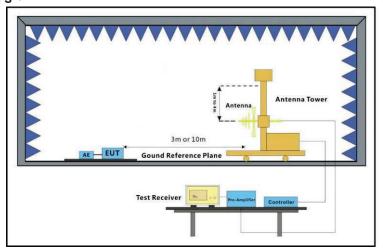
Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description				
Pre-scan	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.				
Final test	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.				
Pre-scan	08	Idle:Keep the EUT standby.				

6.2.3 Test Setup Diagram





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6.2.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

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.

The red line show in graphic is the limit in standard used in this section.

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



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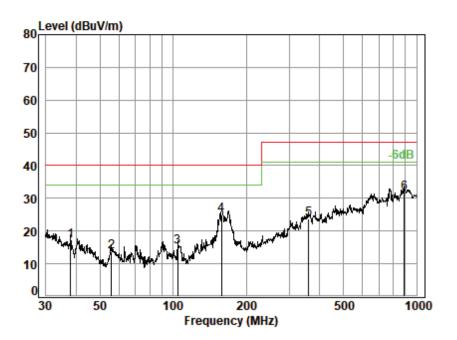


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Test Mode: 07; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No. : 03439AT

Test Mode: 07

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
-	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	37.94	17.32	0.76	27.77	26.68	16.99	40.00	-23.01	QP
2	55.80	11.87	0.91	27.72	28.78	13.84	40.00	-26.16	QP
3	104.17	12.22	1.25	27.57	29.21	15.11	40.00	-24.89	QP
4 q	158.11	13.64	1.58	27.35	37.04	24.91	40.00	-15.09	QP
5	360.45	20.23	2.44	27.00	28.15	23.82	47.00	-23.18	QP
6	890.73	28.06	4.10	26.83	26.29	31.62	47.00	-15.38	OP



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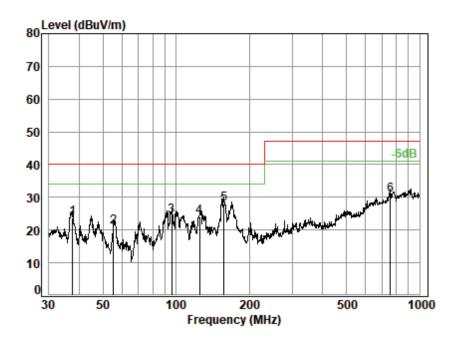


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Test Mode: 07; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No. : 03439AT

Test Mode: 07

		Ant	Cable	Preamp	Read		Limit	0ver	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
	27.55	47.50	0.76	27 77	22.22	22.72	40.00	46.20	OD.
1	3/.55	17.50	0.76	2/.//	33.23	23./2	40.00	-16.28	Q٢
2	55.22	11.94	0.91	27.72	35.84	20.97	40.00	-19.03	QP
3	96.10	12.17	1.20	27.60	38.69	24.46	40.00	-15.54	QP
4	125.01	10.98	1.39	27.48	39.24	24.13	40.00	-15.87	QP
5 q	157.56	13.63	1.57	27.35	40.15	28.00	40.00	-12.00	QP
6	758.04	26.48	3.73	27.58	28.02	30.65	47.00	-16.35	QP



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6.3 Radiated Emissions (Above 1GHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 55032: 2015+A11:2020+A1:2020

Measurement Distance: 3m

Limit:

Fraguency renge/CH=)	Radiated emissions limit(dBµV/m)					
Frequency range(GHz)	Peak	Average				
1GHz-6GHz	74	54				
Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000MHz to 6000MHz						

6.3.1 E.U.T. Operation

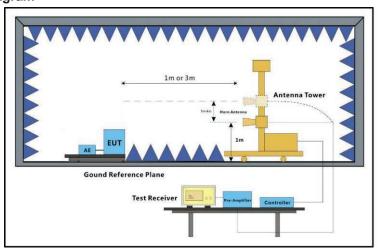
Operating Environment:

Temperature: 21.9 °C Humidity: 57.8 % RH Atmospheric Pressure: 1020 mbar

6.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Pre-scan	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Pre-scan	08	Idle:Keep the EUT standby.

6.3.3 Test Setup Diagram





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6.3.4 Measurement Procedure and Data

Frequency range: Above 1GHz

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

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



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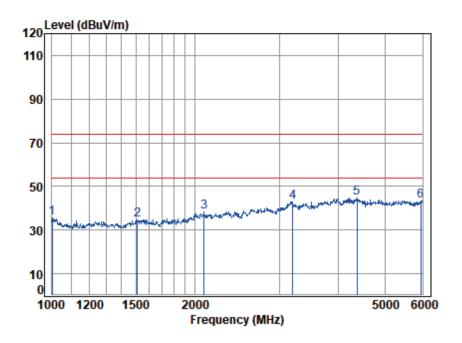


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Test Mode: 06; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 03439AT

Mode : 06

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1001.793	4.55	26.24	61.47	66.25	35.57	74.00	-38.43	peak
2	1509.992	4.59	26.84	61.66	64.94	34.71	74.00	-39.29	peak
3	2084.693	5.72	28.86	61.75	65.35	38.18	74.00	-35.82	peak
4	3204.781	6.78	32.82	61.36	64.76	43.00	74.00	-31.00	peak
5	4369.367	8.04	34.55	61.51	63.51	44.59	74.00	-29.41	peak
6	5946.487	9.50	34.69	62.72	61.66	43.13	74.00	-30.87	peak



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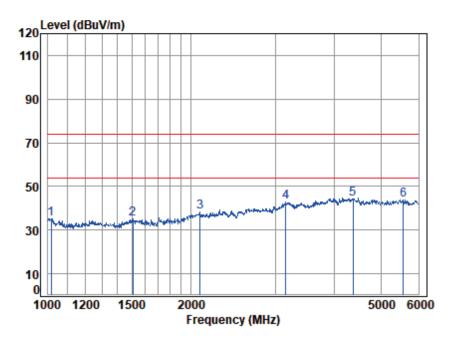


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Test Mode: 06; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No : 03439AT

Mode : 06

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1016.257	4.55	25.78	61.48	66.31	35.16	74.00	-38.84	peak
2	1507.289	4.59	26.83	61.66	65.51	35.27	74.00	-38.73	peak
3	2084.693	5.72	28.86	61.75	65.31	38.14	74.00	-35.86	peak
4	3159.171	6.76	32.57	61.38	65.16	43.11	74.00	-30.89	peak
5	p 4369.367	8.04	34.55	61.51	63.29	44.37	74.00	-29.63	peak
6	5575.028	9.33	34.70	62.46	62.42	43.99	74.00	-30.01	peak



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Immunity Test Results 7

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

Performance criteria for	During the test, the equipment shall:
continuous phenomena	continue to operate as intended;
	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:
	• 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.
	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.		
A	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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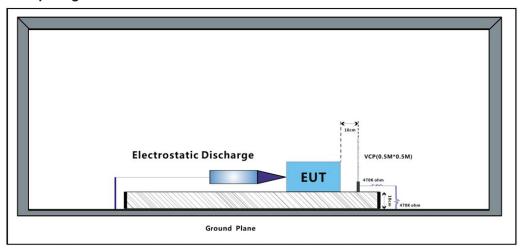
7.1 Electrostatic Discharge

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-2:2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 52.8 % RH Atmospheric Pressure: 1020 mbar

7.1.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Final test	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Final test	08	Idle:Keep the EUT standby.



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7.1.4 Test Condition and Results:

Performance Criterion: B

Discharge Impedance: 330Ω/150pF

Number of Discharge: Minimum 10 times at each test point

Discharge Mode: Single Discharge Discharge Period: 1 second minimum

Test Point: 1. All insulated enclosure and seams.

2. 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	А			
Vertical Coupling	4	-	3	А			
A: No degradation in the performance of the EUT was observed							



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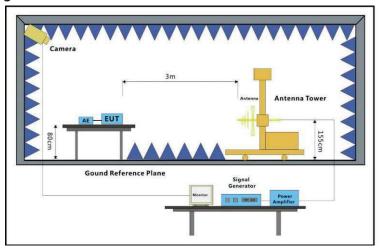
7.2 Radiated Immunity (80MHz-6GHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN IEC 61000-4-3: 2020

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 48.9 % RH Atmospheric Pressure: 1020 mbar

7.2.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Final test	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Final test	80	Idle:Keep the EUT standby.



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7.2.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 80MHz to 6GHz

Antenna Polarisation: Vertical and Horizontal Modulation: 1kHz,80% Amp. Mod,1% increment

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-6GHz	3	Front	2s	A
80MHz-6GHz	3	Back	2s	А
80MHz-6GHz	3	Left	2s	А
80MHz-6GHz	3	Right	2s	А
80MHz-6GHz	3	Тор	2s	А
80MHz-6GHz	3	Underside	2s	А
A: No degradation in the performance of the EUT was observed				



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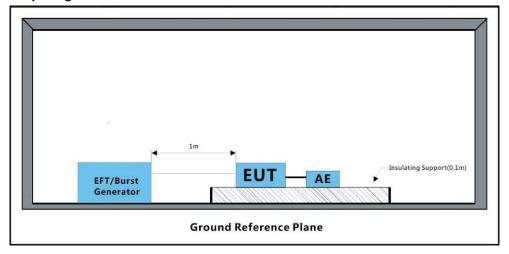
7.3 Electrical Fast Transients Burst at AC Mains Power Port

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-4:2012

7.3.1 Test Setup Diagram



7.3.2 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar

7.3.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Final test	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Final test	08	Idle:Keep the EUT standby.



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7.3.4 Test Condition and Results:

Performance Criterion: B Repetition Frequency: 5kHz

Burst Period: 300ms

Test Line	Level (kV)	Polarity	CDN/Clamp	Result / Observations
AC mains power port	1	+	CDN	A
AC mains power port	1	-	CDN	A
A: No degradation in the performance of the EUT was observed				



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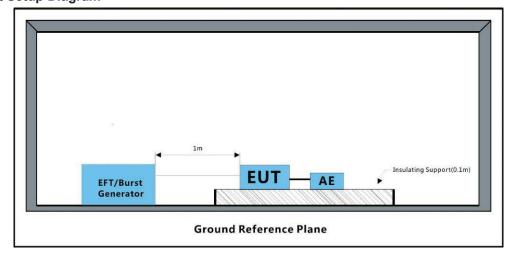
7.4 Surge at AC Mains Power Port

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-5:2014 +A1:2017

7.4.1 Test Setup Diagram



7.4.2 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar

7.4.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Final test	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Final test	08	Idle:Keep the EUT standby.



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7.4.4 Test Condition and Results:

Performance Criterion: B

Interval: 60s between each surge

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

Test Line	Level (kV)	Polarity	Phase (deg)	Result / Observations
L-N	1	+	0°	Α
L-N	1	-	0°	Α
L-N	1	+	90°	А
L-N	1	-	90°	Α
L-N	1	+	180°	А
L-N	1	-	180°	Α
L-N	1	+	270°	А
L-N	1	-	270°	А
A: No degradation in the performance of the EUT was observed				



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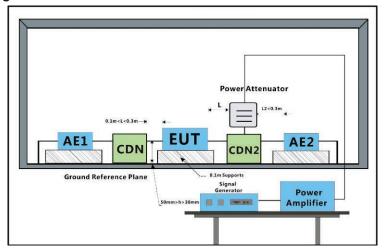
7.5 Conducted Immunity at AC Mains Power Port (150kHz-80MHz)

Test Requirement: EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Test Method: EN 61000-4-6:2014

7.5.1 Test Setup Diagram



7.5.2 E.U.T. Operation

Operating Environment:

Temperature: 26.8 °C Humidity: 51.5 % RH Atmospheric Pressure: 1020 mbar

7.5.3 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	Operation(BT):Keep the EUT communicating with other Bluetooth devices.
Final test	07	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi.
Final test	08	Idle:Keep the EUT standby.



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7.5.4 Test Condition and Results:

Performance Criterion: A

Frequency Range: 0.15MHz to 80MHz

Modulation: 80%, 1kHz Amplitude Modulation

Step Size: 1%

Cable port	Level (Vrms)	CDN/Clamp	Dwell time	Result / Observations
AC power port	3	CDN	2s	Α
A: No degradation in the performance of the EUT was observed				



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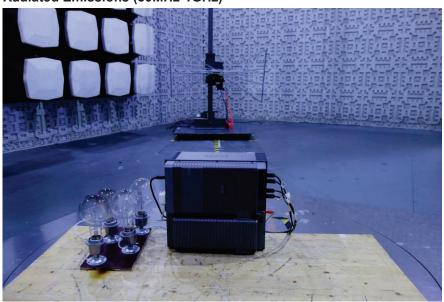
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Test Setup Photo

Conducted Emissions at AC Mains Power Port (150kHz-30MHz)



Radiated Emissions (30MHz-1GHz)





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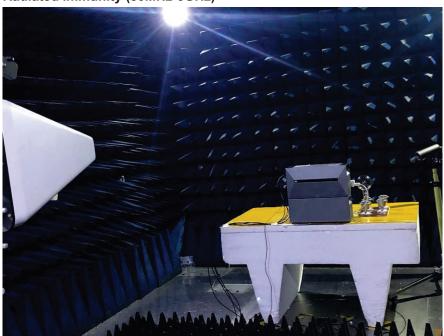
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Electrostatic Discharge



Radiated Immunity (80MHz-6GHz)





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Electrical Fast Transients Burst at AC Mains Power Port



Surge at AC Mains Power Port





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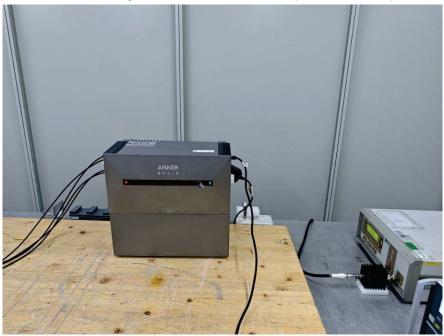


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Conducted Immunity at AC Mains Power Port (150kHz-80MHz)





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EUT Constructional Details (EUT Photos) 9

Refer to Appendix - Photographs of EUT Constructional Details for SZCR2409003439AT - End of the Report -



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