

TEST REPORT

Application No.: GZCR2306000572AT
Applicant: Anker Innovations Limited
Address of Applicant: Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, HongKong
Manufacturer: Anker Innovations Limited
Address of Manufacturer: Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, HongKong
Factory: TenPao Electronics (Huizhou) Co., Ltd.
Address of Factory: Dongjiang Industrial Estate, Shuikou Street, Huicheng District, Huizhou City, Guangdong Province, P.R.China
Equipment Under Test (EUT):
EUT Name: Anker SOLIX Solarbank E1600
Model No.: A17C0
Trade Mark: ANKER
Standard(s) : EN IEC 61000-6-3: 2021
 EN IEC 61000-6-1: 2019
Date of Receipt: 2023-06-13
Date of Test: 2023-06-13 to 2023-07-10
Date of Issue: 2023-07-26

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.





Jerry Chan
Manager



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Revision Record			
Version	Report No.	Date	Remark
01	GZCR230600057201	2023-07-26	Original

Authorized for issue by:			
			
		Simon Cai/Project Engineer	
			
		Ricky Liu/Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	EN IEC 61000-6-3: 2021	CISPR 16-2-3	Table 3.1	Pass
Radiated Emissions (Above 1GHz)		CISPR 16-2-3	Table 3.4	Pass

Immunity Part				
Item	Standard	Method	Requirement	Result
Electrostatic Discharge	EN IEC 61000-6-1: 2019	EN 61000-4-2:2009	±4kV Contact Discharge, ±8kV Air Discharge	Pass
Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)		EN IEC 61000-4-3: 2020	3V/m, 80%, 1kHz Amp. Mod.	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Remark: All test data and photos were copied from report **LGT23F032EM01** issued by **Shenzhen LGT Test Service Co., Ltd.**

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4 General Information

4.1 Details of E.U.T.

Power supply: Input: DC 20-60V max 880W
Output: DC 20-60V max 880W
Test voltage: DC 60V (Worst case)
Cable(s): MC4 INPUT x 2
MC4 OUTPUT x 1
<3.0m unscreened DC cable

4.2 Description of Support Units

Description	Manufacturer	Model	S/N	Rating
Battery	Blueway	A1771-16S6P	N/A	24000mAh DC 51.2V 1228.8Wh
DC power supply	Keysight	N8937APV	N/A	0-1500V/0-30A
Dummy load	N/A	N/A	N/A	N/A

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	4.40dB
Radiated Emissions (Above 1GHz)	5.10dB (1GHz-6GHz); 5.49dB (6GHz-18GHz)

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

- 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.

4.4 Test Location

All tests were performed at:
Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

4.7 EMS Monitor

Visual: Monitor the LED displayer status of the EUT
Audio: N/A



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5 Equipment List

Radiated Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2023.04.13	2024.04.12
Spectrum Analyzer	Keysight	N9020A	MY50530994	2022.12.09	2023.12.08
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.04.10	2024.04.09
Active loop Antenna	ETS	6502	00049544	2022.06.02	2025.06.01
Bilog Antenna	SCHWARZBECK	VULB 9168	01447	2022.12.12	2025.12.11
Horn Antenna	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Pre-amplifier (9kHz-1GHz)	EMtrace	RP01A	02017	2023.04.07	2024.04.06
Pre-amplifier (1-26.5G)	Agilent	8449B	3008A4722	2023.04.07	2024.04.06
Temperature & Humidity	KTJ	TA218B	N.A	2023.04.24	2024.04.23
Testing Software	EMC-I_V1.4.0.3_SKET				

Electrostatic Discharge					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
ESD TEST GENERATOR	EMTEST	ESD-30N	V1051108174	2023.05.24	2024.05.23
Temperature & Humidity	SuWei	ST-W2318	N.A	2023.04.24	2024.04.23

Radiated Immunity					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
Power Sensor	R&S	Z11	116655	2022.12.09	2023.12.08
Power Sensor	R&S	Z11	121896	2022.12.09	2023.12.08
Signal Generator	Agilent	N5181A	MY47070409	2022.12.09	2023.12.08
Power Amplifier	SKET	HAP_80M01G -250W	S202211402	2022.12.09	2023.12.08
Power Amplifier	SKET	HAP_010G06 0G-80W	S202211403	2022.12.09	2023.12.08
RS Test Antenna	SKET	STLP 9129 Plus	SK202210120 06	N.A	N.A



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Guangzhou Branch Technical Services EEC Laboratory

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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement:	EN IEC 61000-6-3: 2021
Test Method:	CISPR 16-2-3
Limit:	
Test Distance:	3m
30MHz-230MHz	40 dB(μV/m) quasi-peak
230MHz-1GHz	47 dB(μV/m) quasi-peak
Detector:	Peak for pre-scan (120kHz resolution bandwidth) 30MHz to 1000MHz

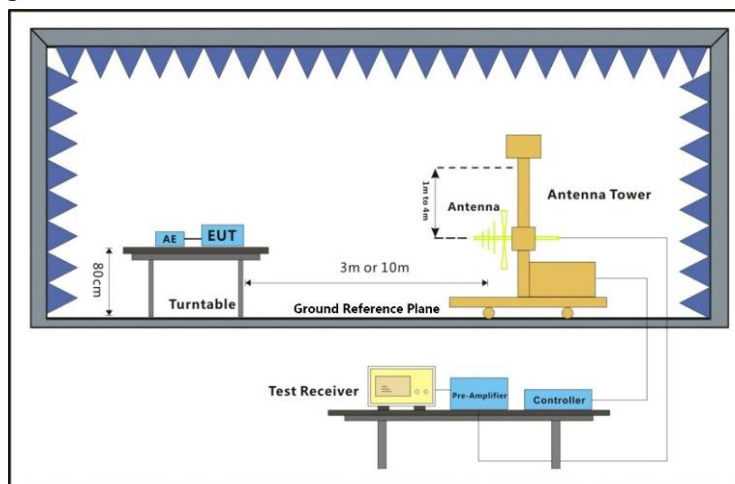
6.1.1 E.U.T. Operation

Operating Environment:					
Temperature:	26.1 °C	Humidity:	52 % RH	Atmospheric Pressure:	1006 mbar

6.1.2 Test Mode Description

Pre-scan / Mode	Code	Description
Final test	11	Test the EUT in charging mode
Final test	12	Test the EUT in discharging mode
Final test	13	Test the EUT in charging mode + discharging mode

6.1.3 Test Setup Diagram

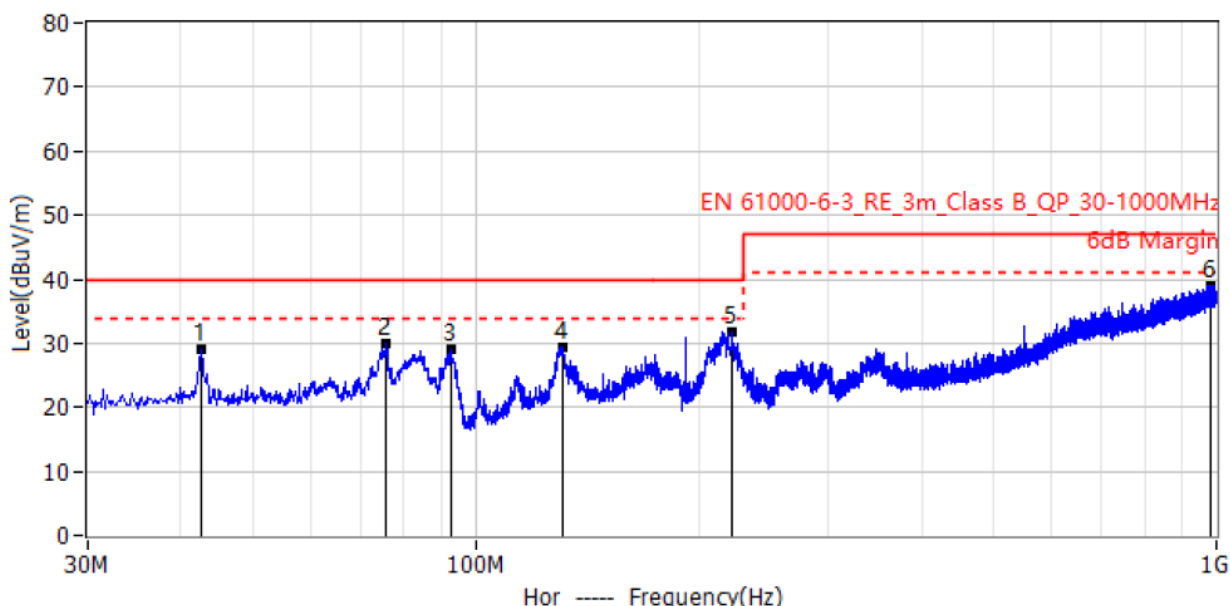


6.1.4 Measurement Procedure and Data

Frequency range: 30MHz-1GHz

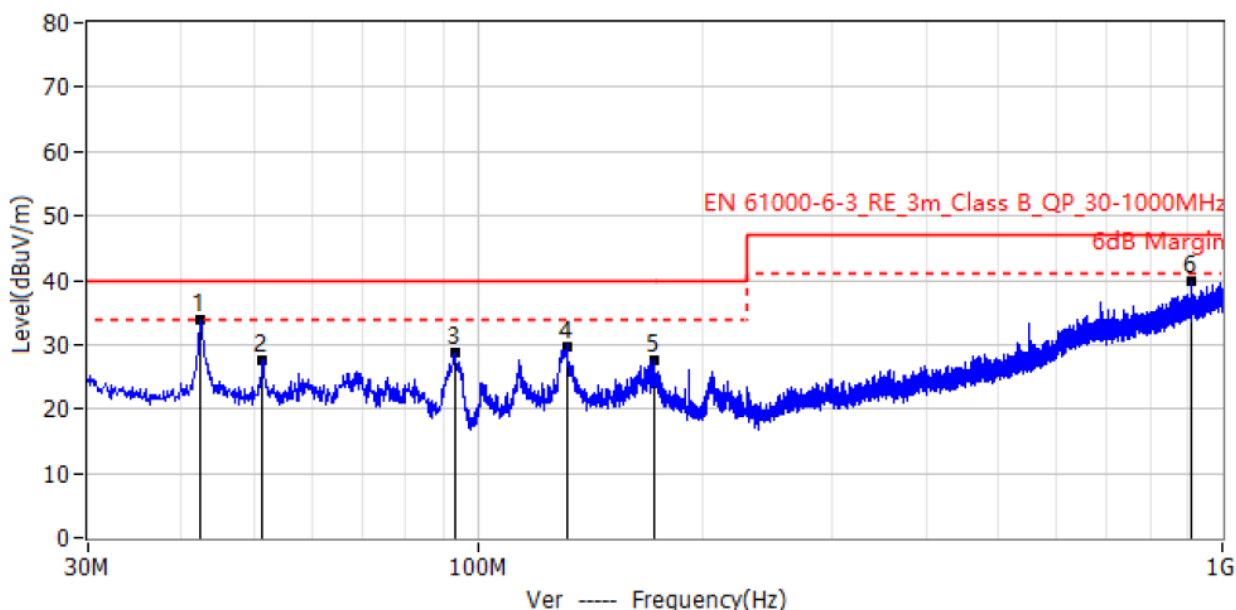
An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities. The red line show in graphic is the limit in standard used in this section.

Test Mode: 11; Polarity: Horizontal



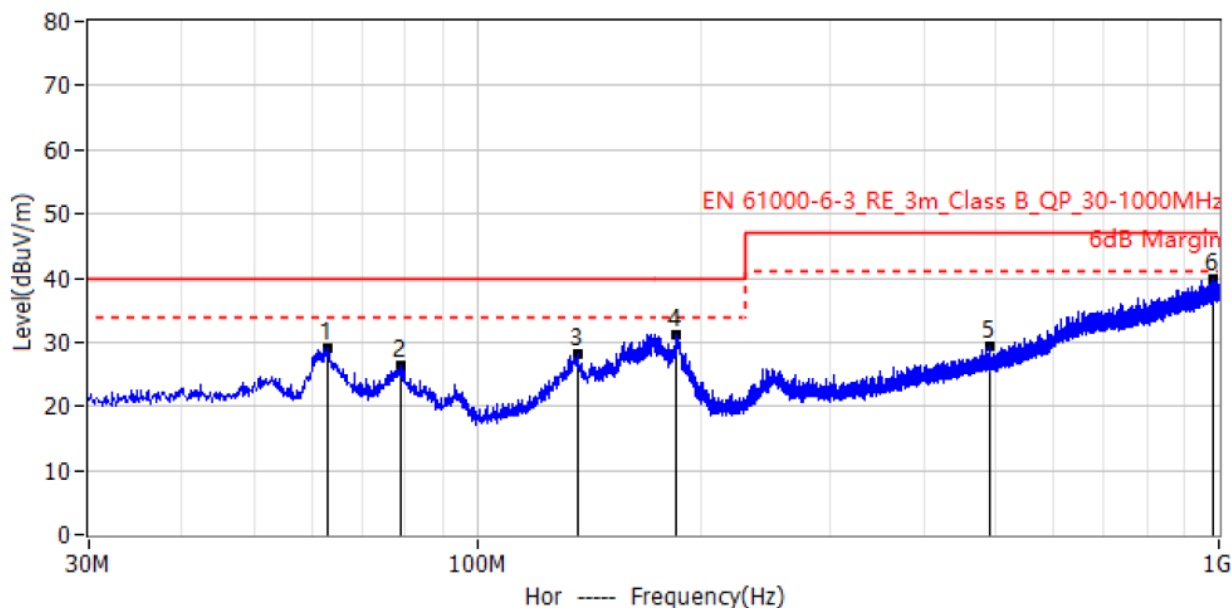
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.610MHz	9.87	19.30	29.17	40.00	-10.83	QP	Hor
2*	75.590MHz	13.38	16.44	29.82	40.00	-10.18	QP	Hor
3*	92.565MHz	13.74	15.20	28.94	40.00	-11.06	QP	Hor
4*	130.880MHz	10.95	18.55	29.50	40.00	-10.50	QP	Hor
5*	222.181MHz	14.91	16.87	31.78	40.00	-8.22	QP	Hor
6*	980.358MHz	4.58	34.48	39.06	47.00	-7.94	QP	Hor

Test Mode: 11; Polarity: Vertical



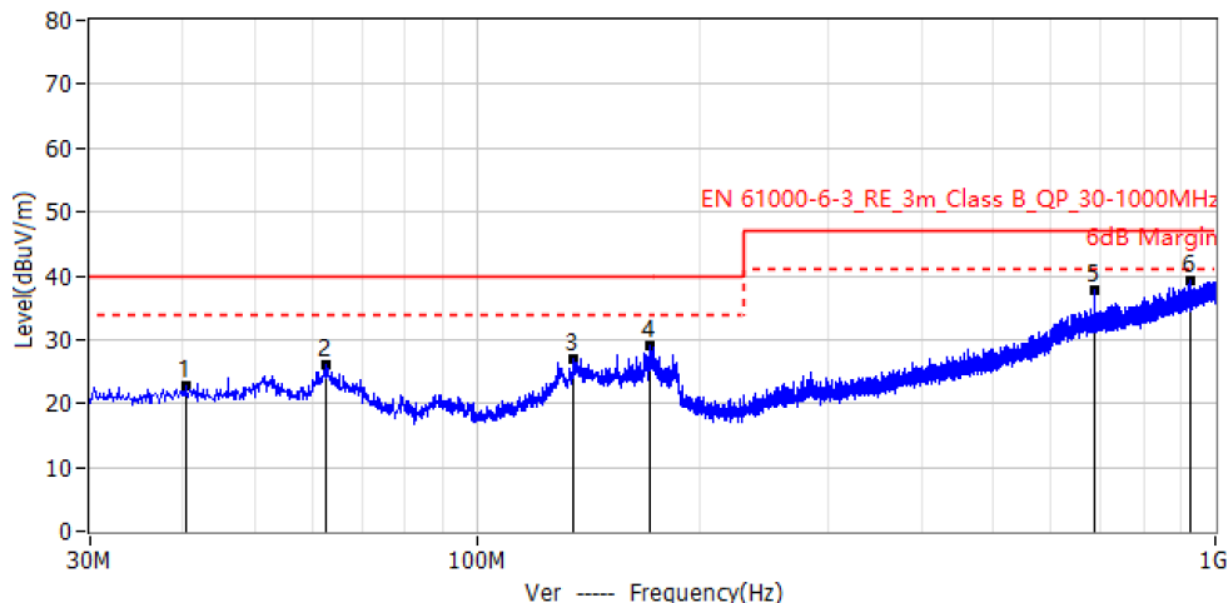
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.489MHz	14.52	19.30	33.82	40.00	-6.18	QP	Ver
2*	51.461MHz	8.39	19.25	27.64	40.00	-12.36	QP	Ver
3*	93.171MHz	13.43	15.24	28.67	40.00	-11.33	QP	Ver
4*	131.729MHz	11.22	18.59	29.81	40.00	-10.19	QP	Ver
5*	172.954MHz	8.12	19.50	27.62	40.00	-12.38	QP	Ver
6*	906.759MHz	6.47	33.28	39.75	47.00	-7.25	QP	Ver

Test Mode: 12; Polarity: Horizontal



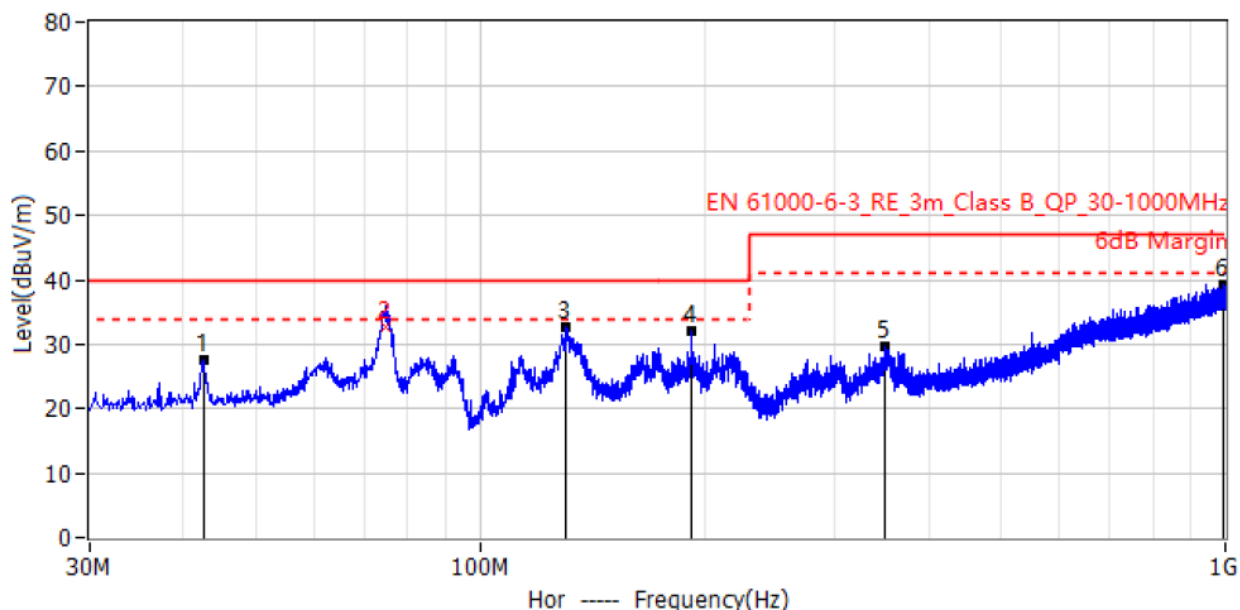
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	62.738MHz	10.71	18.47	29.18	40.00	-10.82	QP	Hor
2*	78.864MHz	10.75	15.52	26.27	40.00	-13.73	QP	Hor
3*	136.579MHz	9.18	18.86	28.04	40.00	-11.96	QP	Hor
4*	185.928MHz	13.06	18.15	31.21	40.00	-8.79	QP	Hor
5*	490.629MHz	4.65	24.71	29.36	47.00	-17.64	QP	Hor
6*	984.965MHz	5.39	34.50	39.89	47.00	-7.11	QP	Hor

Test Mode: 12; Polarity: Vertical



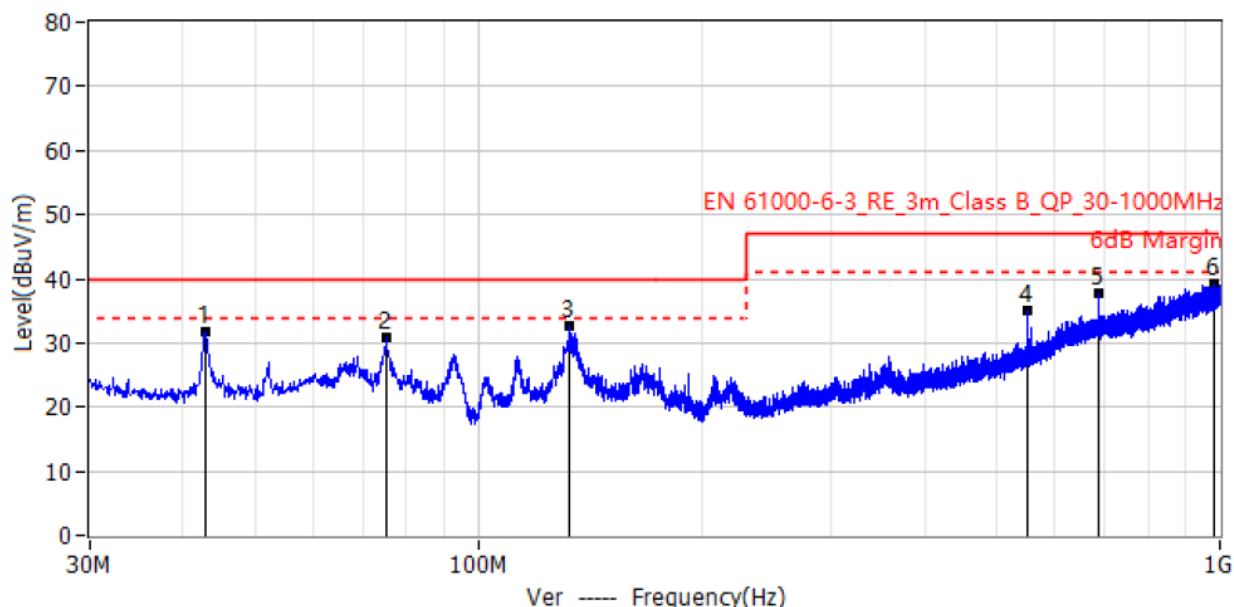
No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	40.428MHz	3.29	19.37	22.66	40.00	-17.34	QP	Ver
2*	62.495MHz	7.52	18.49	26.01	40.00	-13.99	QP	Ver
3*	135.124MHz	8.14	18.78	26.92	40.00	-13.08	QP	Ver
4*	171.620MHz	9.35	19.63	28.98	40.00	-11.02	QP	Ver
5*	687.539MHz	8.09	29.69	37.78	47.00	-9.22	QP	Ver
6*	922.643MHz	5.76	33.37	39.13	47.00	-7.87	QP	Ver

Test Mode: 13; Polarity: Horizontal



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.610MHz	8.24	19.30	27.54	40.00	-12.46	QP	Hor
2	74.654MHz	16.00	16.70	32.70	40.00	-7.30	QP	Hor
3*	130.395MHz	14.13	18.52	32.65	40.00	-7.35	QP	Hor
4*	191.990MHz	14.53	17.57	32.10	40.00	-7.90	QP	Hor
5*	348.645MHz	8.36	21.16	29.52	47.00	-17.48	QP	Hor
6*	992.119MHz	4.84	34.53	39.37	47.00	-7.63	QP	Hor

Test Mode: 13; Polarity: Vertical



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.853MHz	12.36	19.29	31.65	40.00	-8.35	QP	Ver
2*	75.226MHz	14.36	16.55	30.91	40.00	-9.09	QP	Ver
3*	133.063MHz	14.04	18.67	32.71	40.00	-7.29	QP	Ver
4*	550.284MHz	8.86	26.19	35.05	47.00	-11.95	QP	Ver
5*	687.539MHz	8.16	29.69	37.85	47.00	-9.15	QP	Ver
6*	981.691MHz	4.68	34.49	39.17	47.00	-7.83	QP	Ver

6.2 Radiated Emissions (Above 1GHz)

Test Requirement: EN IEC 61000-6-3: 2021

Test Method: CISPR 16-2-3

Limit:

Frequency range (MHz)	Radiated emissions limit(dBμV/m)	
	Peak	Average
1000-3000	70	50
3000-6000	74	54

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.2 °C

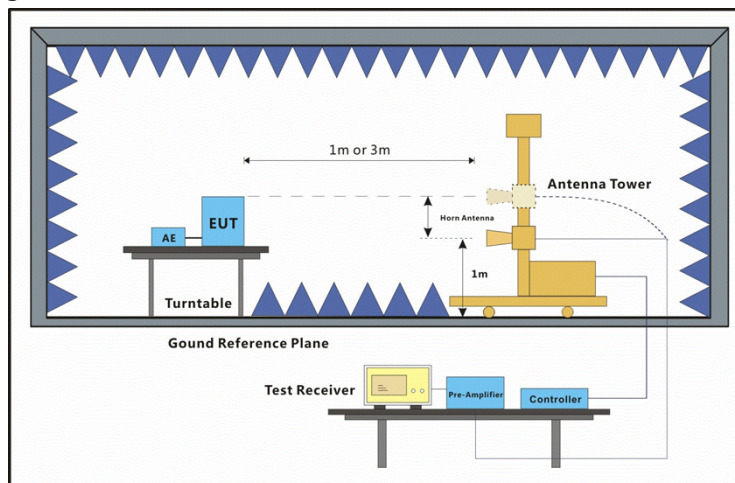
Humidity: 52 % RH

Atmospheric Pressure: 1006 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	11	Test the EUT in charging mode
Pre-scan	12	Test the EUT in discharging mode
Final test	13	Test the EUT in charging mode + discharging mode

6.2.3 Test Setup Diagram



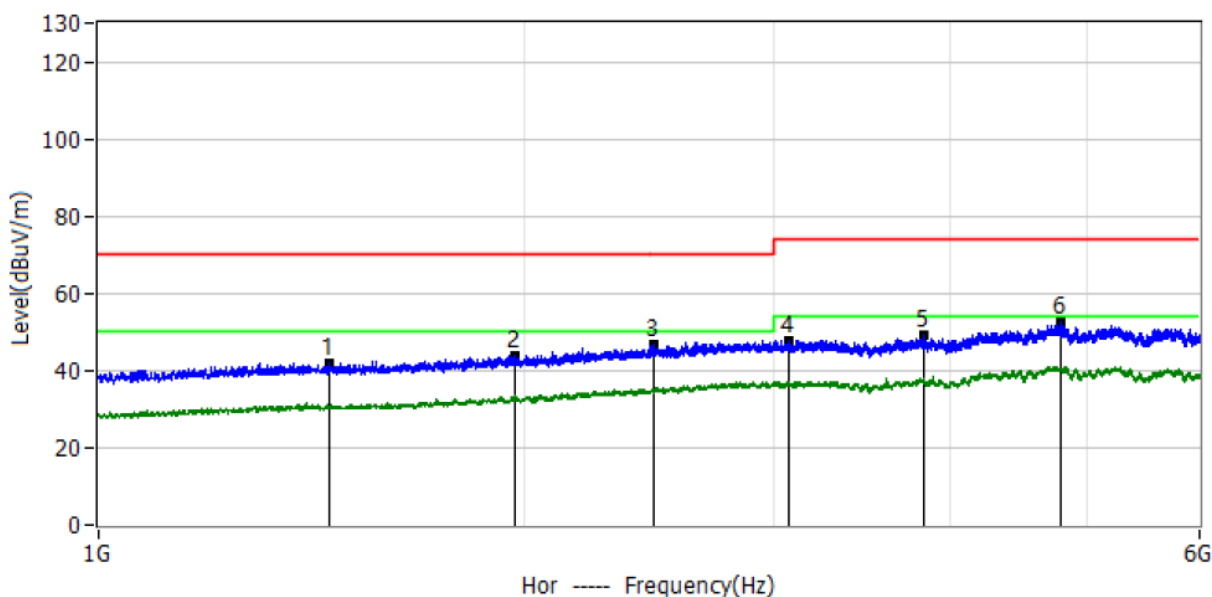
6.2.4 Measurement Procedure and Data

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

The EUT was measured by Horn antenna with 2 orthogonal polarities.

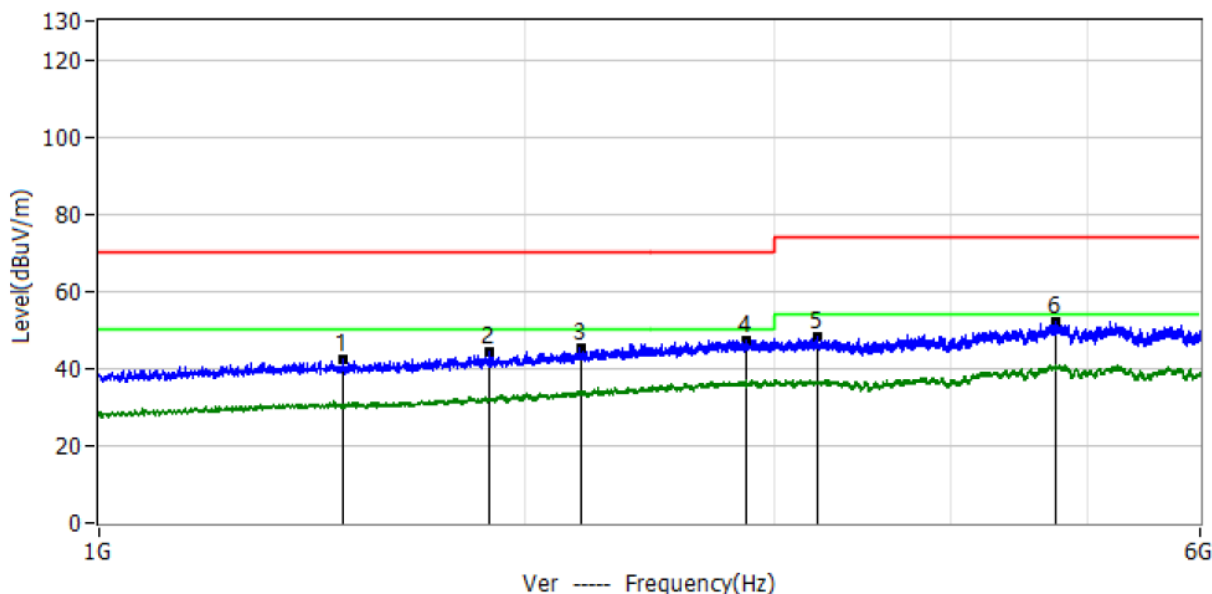
Test Mode: 13; Polarity: Horizontal



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.454GHz	63.05	-21.09	41.96	70.00	-28.04	PK	Hor
2*	1.967GHz	60.58	-16.57	44.01	70.00	-25.99	PK	Hor
3*	2.472GHz	57.90	-11.28	46.62	70.00	-23.38	PK	Hor
4*	3.073GHz	56.22	-8.36	47.86	74.00	-26.14	PK	Hor
5*	3.826GHz	57.15	-8.09	49.06	74.00	-24.94	PK	Hor
6*	4.785GHz	58.47	-5.97	52.50	74.00	-21.50	PK	Hor

Note: Average measurement was not performed if peak level lower than average limit.

Test Mode: 13; Polarity: Vertical



No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1.488GHz	63.08	-20.90	42.18	70.00	-27.82	PK	Ver
2*	1.888GHz	61.54	-17.37	44.17	70.00	-25.83	PK	Ver
3*	2.188GHz	59.71	-14.26	45.45	70.00	-24.55	PK	Ver
4*	2.864GHz	56.37	-9.06	47.31	70.00	-22.69	PK	Ver
5*	3.216GHz	56.71	-8.41	48.30	74.00	-25.70	PK	Ver
6*	4.741GHz	58.13	-5.94	52.19	74.00	-21.81	PK	Ver

Note: Average measurement was not performed if peak level lower than average limit.

7 Immunity Test Results

Performance Criteria Description in EN IEC 61000-6-1:2019

Criterion A

The EUT shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. If the performance level is not specified by the manufacturer, this may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Criterion B

The EUT shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the EUT is used as intended. The performance level may be replaced by a permissible loss of performance. However, during the test degradation of performance is allowed but no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, either of these may be derived from the product description and documentation and what the user may reasonably expect from the equipment if used as intended.

Criterion C

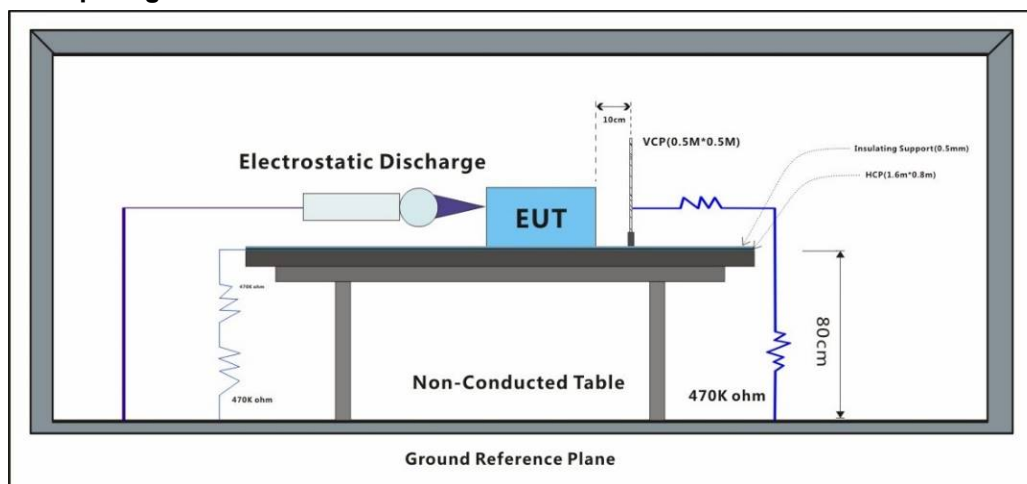
Temporary loss of function is allowed during the test, provided the function is self-recoverable or can be restored by the operation of the controls.

7.1 Electrostatic Discharge

Test Requirement: EN IEC 61000-6-1: 2019

Test Method: EN 61000-4-2:2009

7.1.1 Test Setup Diagram



7.1.2 E.U.T. Operation

Operating Environment:

Temperature: 27.4 °C

Humidity: 58 % RH

Atmospheric Pressure: 1006 mbar

7.1.3 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	11	Test the EUT in charging mode
Final test	12	Test the EUT in discharging mode
Final test	13	Test the EUT in charging mode + discharging mode

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	A
Air Discharge	2,4,8	-	1	A
Contact Discharge	4	+	2	A
Contact Discharge	4	-	2	A
Horizontal Coupling	4	+	3	A
Horizontal Coupling	4	-	3	A
Vertical Coupling	4	+	3	A
Vertical Coupling	4	-	3	A

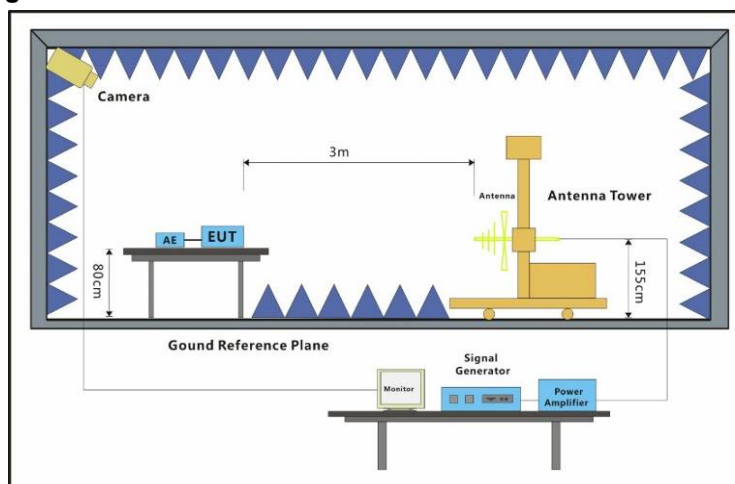
A: No degradation in the performance of the EUT was observed

7.2 Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)

Test Requirement: EN IEC 61000-6-1: 2019

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

7.2.1 Test Setup Diagram



7.2.2 E.U.T. Operation

Operating Environment:

Temperature: 27.4 °C

Humidity: 58 % RH

Atmospheric Pressure: 1006 mbar

7.2.3 Test Mode Description

Pre-scan /	Mode	Description
Final test	Code	
Final test	11	Test the EUT in charging mode
Final test	12	Test the EUT in discharging mode
Final test	13	Test the EUT in charging mode + discharging mode

7.2.4 Test Condition and Results:

Performance Criterion:A

Antenna Polarisation:Vertical and Horizontal

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

Frequency Range:80MHz to 1GHz, 1.4GHz to 6GHz

Frequency	Level (V/m)	EUT Face	Dwell time	Result / Observations
80MHz-1GHz	3	Front	2s	A
80MHz-1GHz	3	Back	2s	A
80MHz-1GHz	3	Left	2s	A
80MHz-1GHz	3	Right	2s	A
80MHz-1GHz	3	Top	2s	A
80MHz-1GHz	3	Underside	2s	A
1.4GHz-6GHz	3	Front	2s	A
1.4GHz-6GHz	3	Back	2s	A
1.4GHz-6GHz	3	Left	2s	A
1.4GHz-6GHz	3	Right	2s	A
1.4GHz-6GHz	3	Top	2s	A
1.4GHz-6GHz	3	Underside	2s	A

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

8 Test Setup Photo

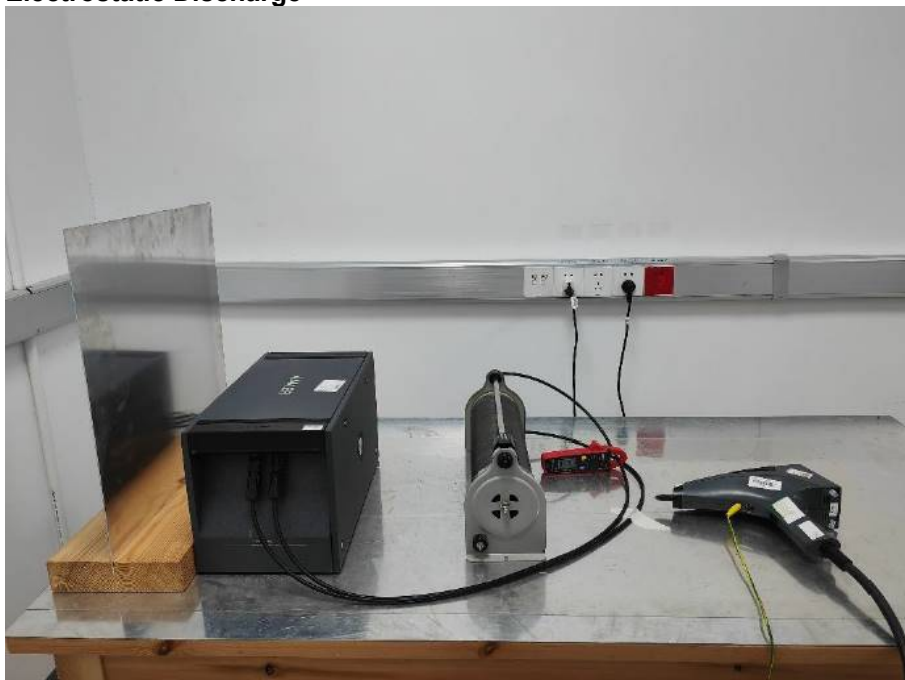
Radiated Emissions (30MHz-1GHz)



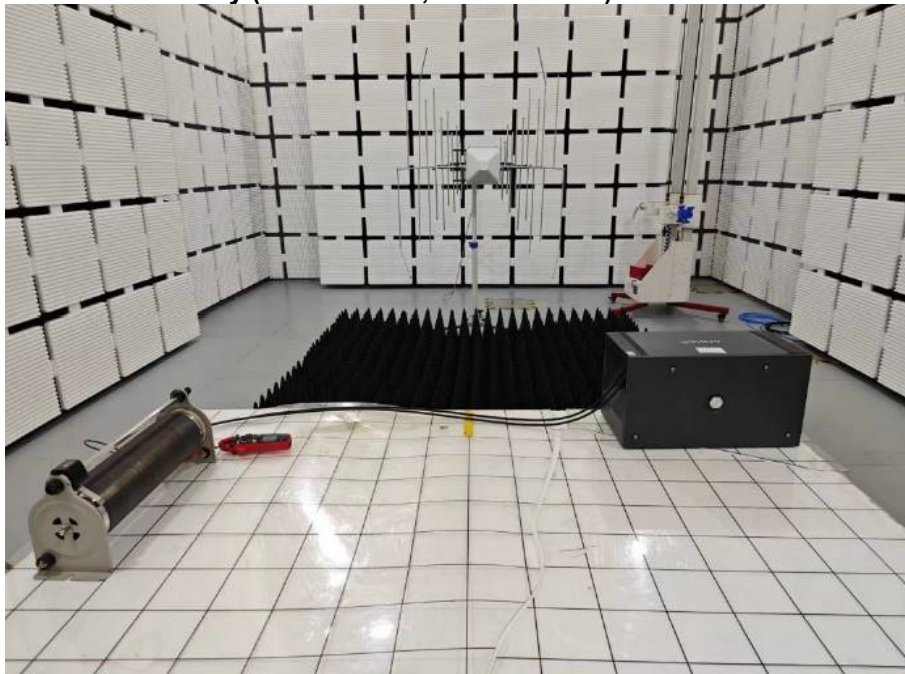
Radiated Emissions (Above 1GHz)



Electrostatic Discharge



Radiated Immunity (80MHz-1GHz, 1.4GHz-6GHz)



9 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZCR2306000572AT

- End of the Report -