FCC 47 CFR Part 15 Subpart B

TEST REPORT

For

Lithium-ion Power Battery

MODEL NUMBER: C12460A-A

REPORT NUMBER: 4792157669-EMC-1

ISSUE DATE: March 25, 2026

Prepared for

Epoch Batteries LLC
954 Ponce de Leon Ave, Suite 401 San Juan, PR 00907, Puerto Rico, USA

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 25, 2026	Initial Issue	

Summary of Test Results

Emission			
Standard	**Test Item**	**Limit**	**Result**
FCC 47 CFR Part 15 Subpart B	Conducted emissions	FCC Part 15.107	N/A (Note 1)
	Radiated emissions below 1GHz	FCC Part 15.109	Pass (Note 3)
	Radiated emissions above 1GHz	FCC Part 15.109	N/A (Note 1, 2)

Note:
1. N/A: In this whole report not applicable.
2. If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz; If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2 GHz; If the highest frequency of the internal sources of the EUT is between 500 MHz and 1 GHz, measurement shall only be made up to 5 GHz; If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, whichever is less.
3. The test item tested at Dongguan Dongdian Testing Service Co., Ltd.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <FCC 47 CFR Part 15 Subpart B> when <Simple Acceptance> decision rule is applied.

CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Shenzhen ESPE Technology Co., Ltd.
Address:	No.401, 501, 502, building 2, Hongxin Industrial Zone, Guangguan Road #1303, Xinlan Community, Guanlan Street, Longhua, Shenzhen, Guangdong, China

Manufacturer Information

Company Name:	Shenzhen ESPE Technology Co., Ltd.
Address:	No.401, 501, 502, building 2, Hongxin Industrial Zone, Guangguan Road #1303, Xinlan Community, Guanlan Street, Longhua, Shenzhen, Guangdong, China

EUT Information

EUT Name:	Lithium-ion Power Battery
Model:	C12460A-A
Brand:	EPOCH BATTERIES
Sample Received Date:	March 13, 2026
Sample Status:	Normal
Sample ID:	9516138
Date of Tested:	March 20, 20265

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47 CFR Part 15 Subpart B	**Pass**

Prepared By:

Andy Xiong

Engineer Project Associate

Checked By:

Kebo Zhang

Operations Leader

Approved By:

Stephen Guo

Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR Part 15 Subpart B.

3. FACILITIES AND ACCREDITATION

Laboratory Name	**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch**
Address	Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China
Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202

Test Location :

Laboratory Name	Dongguan Dongdian Testing Service Co., Ltd
Address	No. 17, Zongbu Road 2, Songshan Lake Sci&Tech Park, Dongguan City, Guangdong Province, 523808, China
Accreditation Certificate	A2LA (Certificate No.: 3870.01) Dongguan Dongdian Testing Service Co., Ltd has been assessed and proved to be in compliance with A2LA.

Note:
Radiated emission tested at Dongguan Dongdian Testing Service Co., Ltd located at No. 17, Zongbu Road 2, Songshan Lake Sci&Tech Park, Dongguan City, Guangdong Province, 523808, China.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Measurement Frequency Range	K	U(dB)
Radiated emissions below 1GHz	30MHz -1GHz	2	4.48
Note1: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Lithium-ion Power Battery
Model:	C12460A-A
EUT Classification	Class A
Highest Internal Frequency	below 108MHz
Ratings	Input:12.8V Max Charging/Max Discharging:300A

5.2. TEST MODE

Test Mode	Description
M01	Charging
M02	Discharging

5.3. EUT ACCESSORY

Note: no accessories.

5.4. SUPPORT UNITS FOR SYSTEM TEST

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.
E-1	DC Source/Load System	N/A	N/A	N/A	N/A

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
/	/	/	/	/

6. MEASURING EQUIPMENT AND SOFTWARE USED

Equipment used at Dongguan Dongdian Testing Service Co., Ltd:

Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
Receiver	R&S	ESCI7	DDT-ZC04897	2026/03/28
Receiver	R&S	ESCI7	DDT-ZC04898	2026/03/28
Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC05156	2026/06/28
Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC05155	2026/06/28
Pre-Amplifier	Sonoma instrument	310N	DDT-ZC05159	2026/06/24
Pre-Amplifier	Sonoma instrument	310N	DDT-ZC05162	2026/06/24
Chamber	Maorui	22m*12m*10 m	DDT-ZC05498	2028/05/20
EMItest software	Tonscend	JS32-RE	DDT-ZC05505	/

7. EMISSION TEST

7.1. RADIATED EMISSIONS BELOW 1GHZ

LIMITS

Frequency (MHz)	Field strength (dBuV/m@ 10 m)	
	Class A	Class B
30 - 88	39	29.5
88 - 216	43.5	33
216 - 960	46.4	35.5
Above 960	49.5	43.6

Note:
The tighter limit applies at the band edges

TEST PROCEDURE

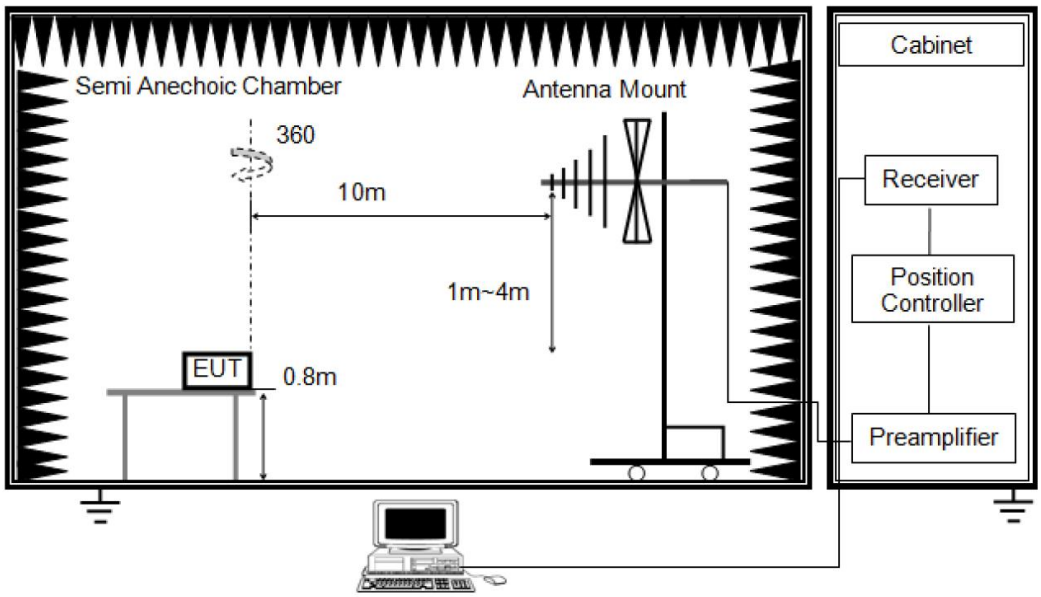
1) The testing follows the guidelines in ANSI C63.4-2014.
2) The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3) The EUT was placed on a turntable with 80cm above ground.
4) The EUT was set 10 meters from the interference receiving antenna, test antenna mast is remotely controlled and can be varied in height form 1m to 4m.
5) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
6) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
7) Cables of hand-operated devices, such as keyboards and mice, shall be placed as for normal used.
8) For measurement below 1 GHz, the initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

   The setting of the spectrum analyser

RBW	100kHz
VBW	300kHz
Detector	Peak / Quasi Peak#
Trace	Max hold

#: Peak for pre-scan, Quasi Peak for the final result.

TEST SETUP



Below 1 GHz and above 30 MHz

TEST ENVIRONMENT

Temperature	20.8℃	Relative Humidity	58.8%
Atmosphere Pressure	101kPa		

TEST DATE / ENGINEER

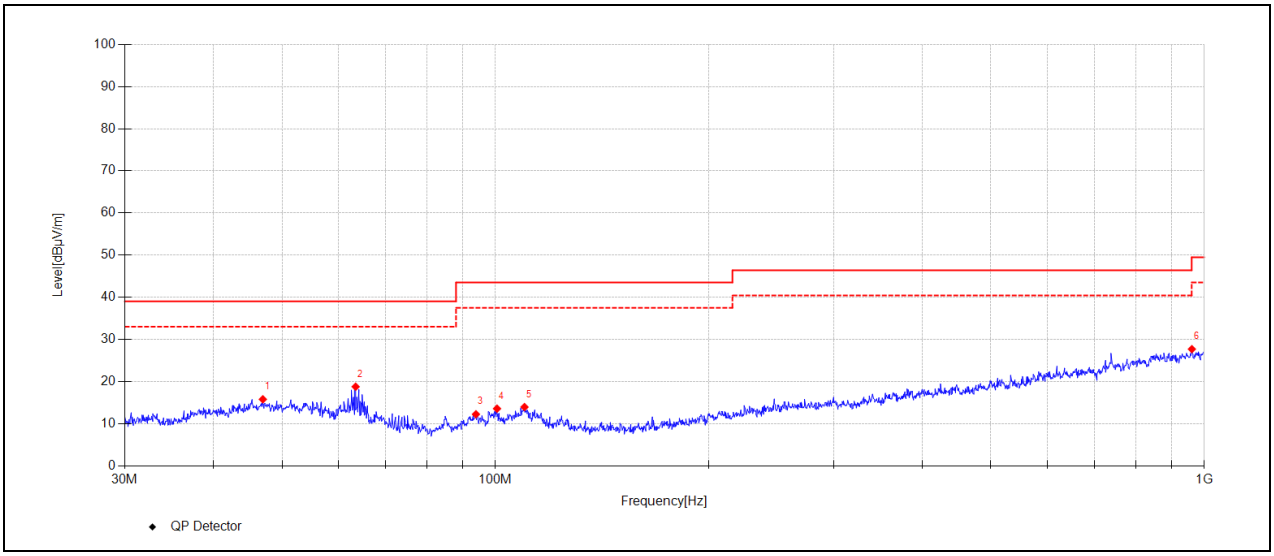
Test Date	March 20, 2026	Test By	Xia Yiyao

TEST MODE

Pre-test Mode:	M01
Final Test Mode:	M01

TEST RESULTS

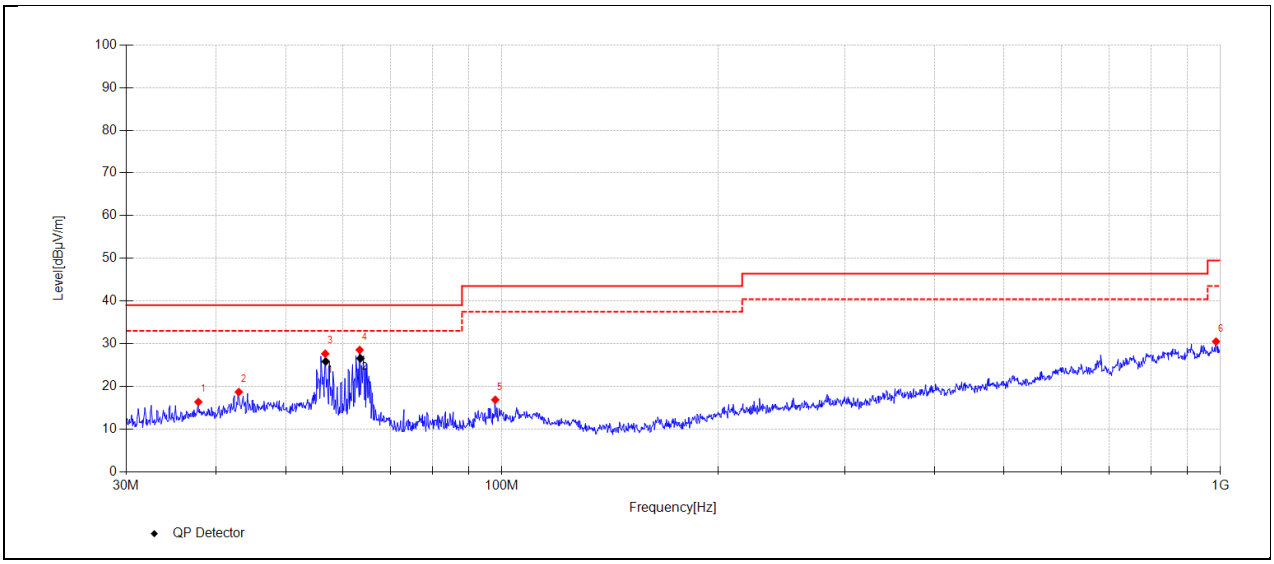
Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	DC 14.4V		



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	46.98	28.58	-12.82	15.76	39.00	23.24	400	350	PK	Horizontal
2	63.51	33.17	-14.42	18.75	39.00	20.25	300	88	PK	Horizontal
3	93.88	27.86	-15.65	12.21	43.50	31.29	400	129	PK	Horizontal
4	100.52	29.02	-15.48	13.54	43.50	29.96	400	94	PK	Horizontal
5	109.92	28.64	-14.72	13.92	43.50	29.58	400	182	PK	Horizontal
6	960.50	28.34	-0.67	27.67	49.50	21.83	300	245	PK	Horizontal

Note: 1. Result Level = Reading + Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	DC 14.4V		



Suspected Data List

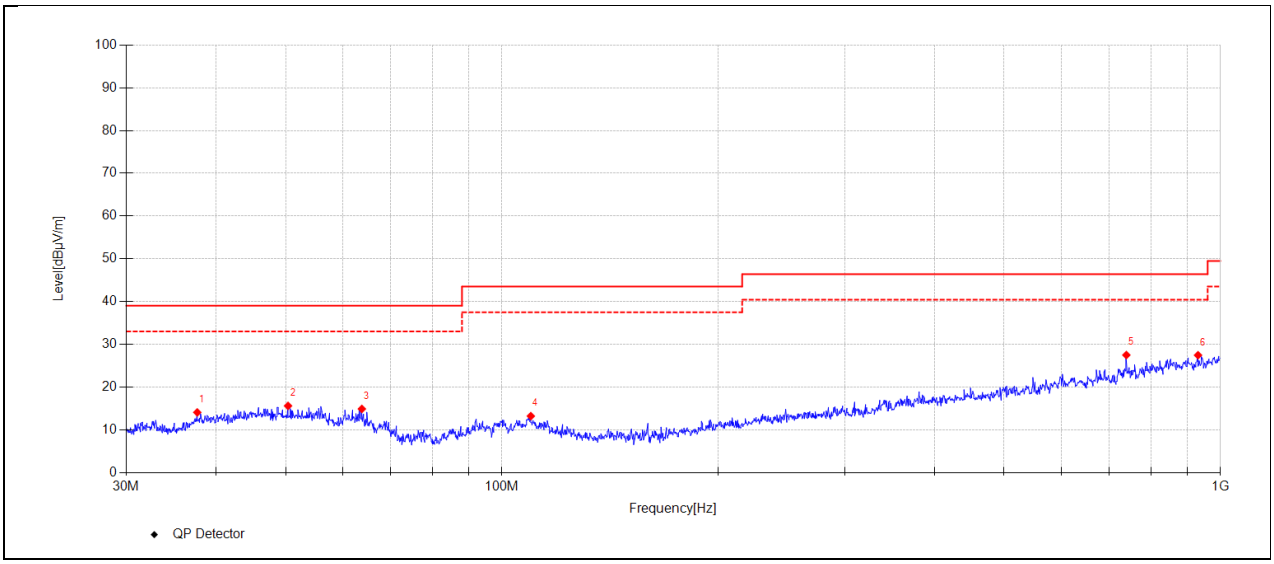
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	37.81	30.03	-13.71	16.32	39.00	22.68	200	265	PK	Vertical
2	43.04	31.27	-12.62	18.65	39.00	20.35	200	126	PK	Vertical
3	56.77	40.65	-13.01	27.64	39.00	11.36	100	270	PK	Vertical
4	63.40	42.07	-13.55	28.52	39.00	10.48	100	251	PK	Vertical
5	97.91	31.11	-14.28	16.83	43.50	26.67	200	233	PK	Vertical
6	986.08	29.02	1.47	30.49	49.50	19.01	200	252	PK	Vertical

Final Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	56.86	38.82	-13.01	25.81	39.00	13.19	100	276.86	QP	Vertical
2	63.54	40.09	-13.55	26.54	39.00	12.46	100	287.84	QP	Vertical

Note: 1. Result Level = Reading + Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Test Mode:	M01	Polarity:	Horizontal
Test Voltage:	DC 12.8V		

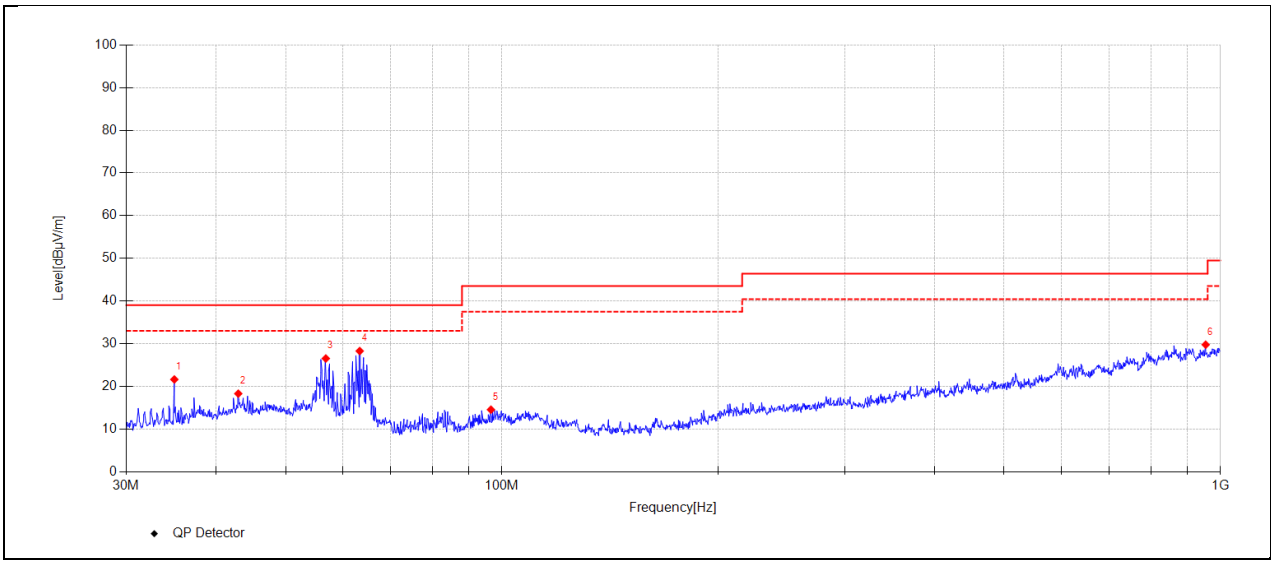


Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	37.68	28.73	-14.68	14.05	39.00	24.95	100	341	PK	Horizontal
2	50.40	28.45	-12.88	15.57	39.00	23.43	100	157	PK	Horizontal
3	63.85	29.45	-14.58	14.87	39.00	24.13	100	252	PK	Horizontal
4	109.72	27.94	-14.76	13.18	43.50	30.32	100	224	PK	Horizontal
5	739.77	30.90	-3.43	27.47	46.40	18.93	100	319	PK	Horizontal
6	930.67	28.13	-0.70	27.43	46.40	18.97	100	78	PK	Horizontal

Note: 1. Result Level = Reading + Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Test Mode:	M01	Polarity:	Vertical
Test Voltage:	DC 12.8V		



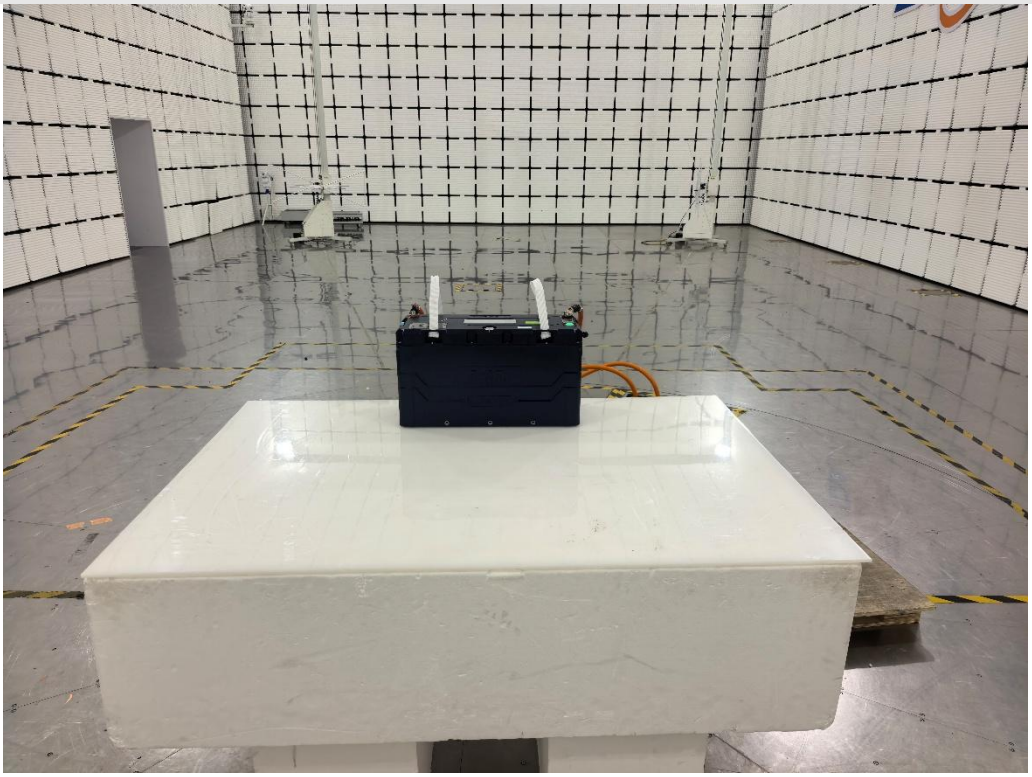
Suspected Data List

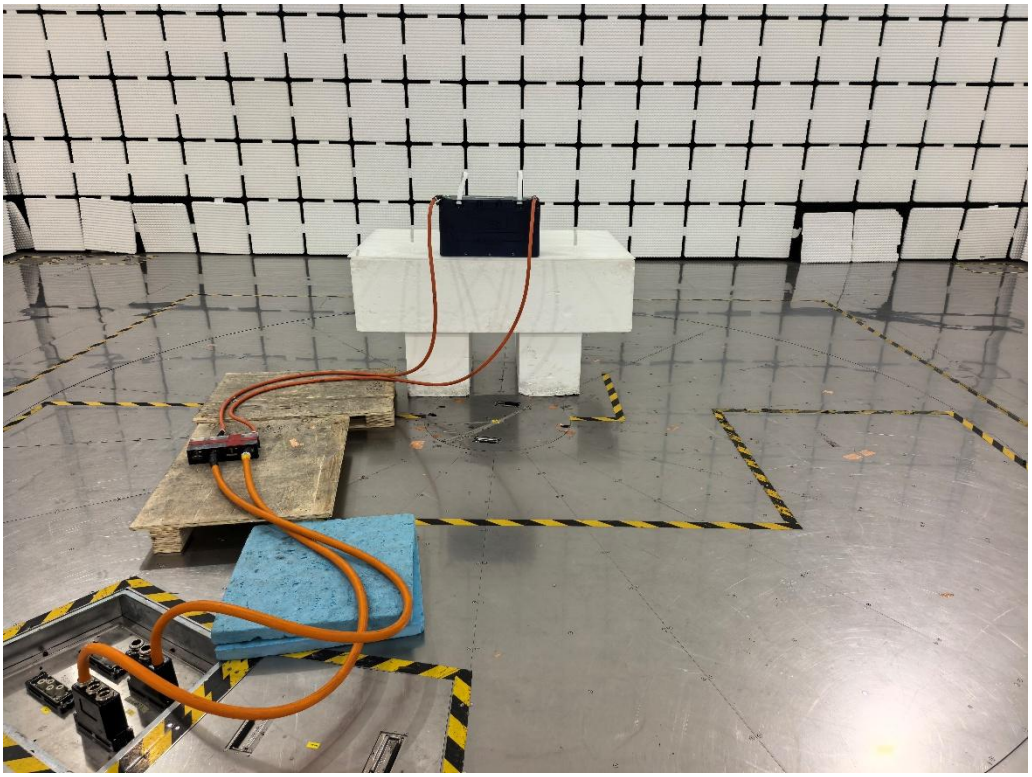
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	35.00	36.22	-14.62	21.60	39.00	17.40	100	359	PK	Vertical
2	42.97	30.90	-12.62	18.28	39.00	20.72	100	126	PK	Vertical
3	56.87	39.59	-13.07	26.52	39.00	12.48	100	261	PK	Vertical
4	63.40	41.81	-13.55	28.26	39.00	10.74	100	261	PK	Vertical
5	96.55	29.81	-15.30	14.51	43.50	28.99	100	236	PK	Vertical
6	953.79	28.98	0.77	29.75	46.40	16.65	100	354	PK	Vertical

Note: 1. Result Level = Reading + Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

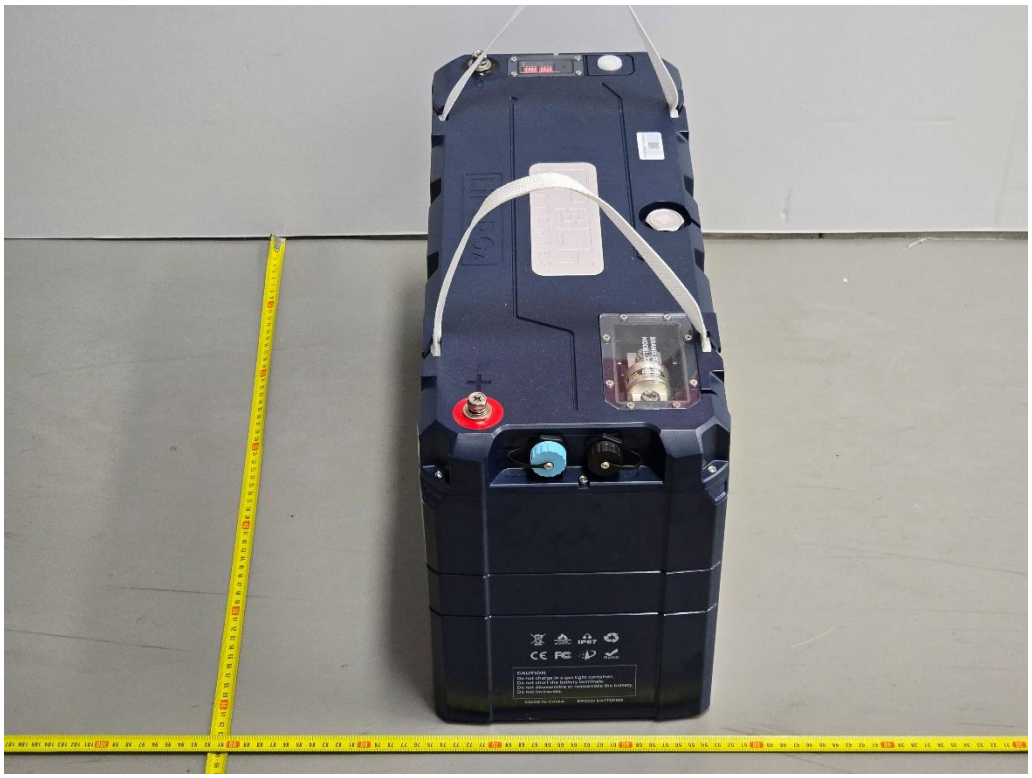
APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

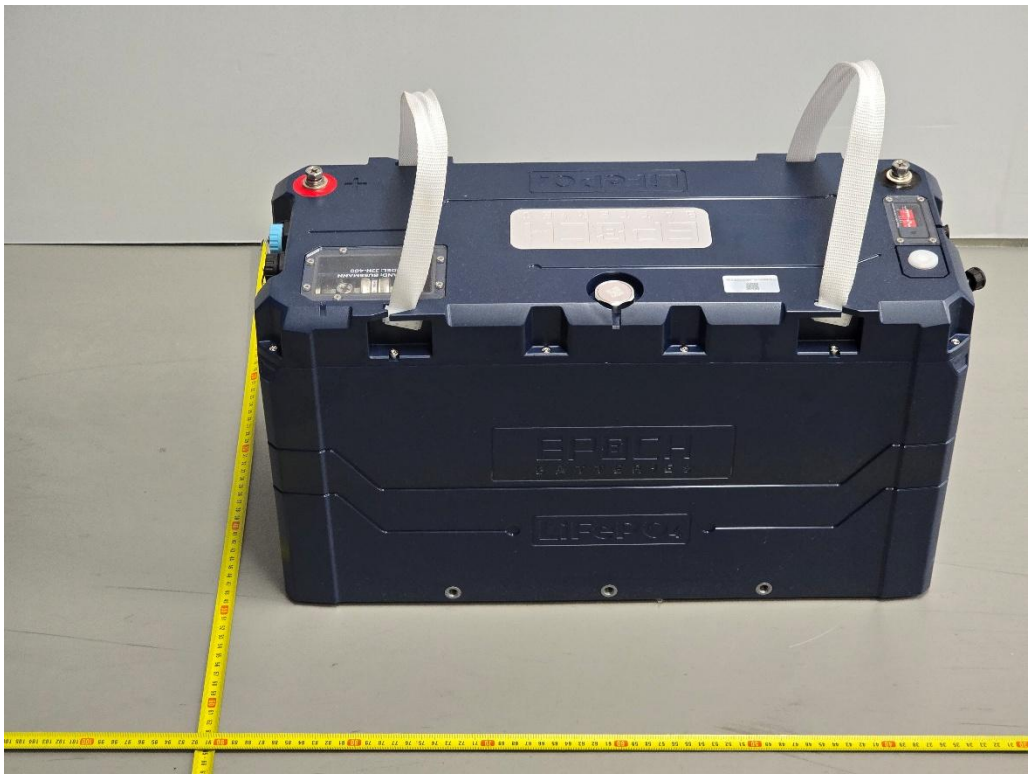
Radiated emissions below 1GHz

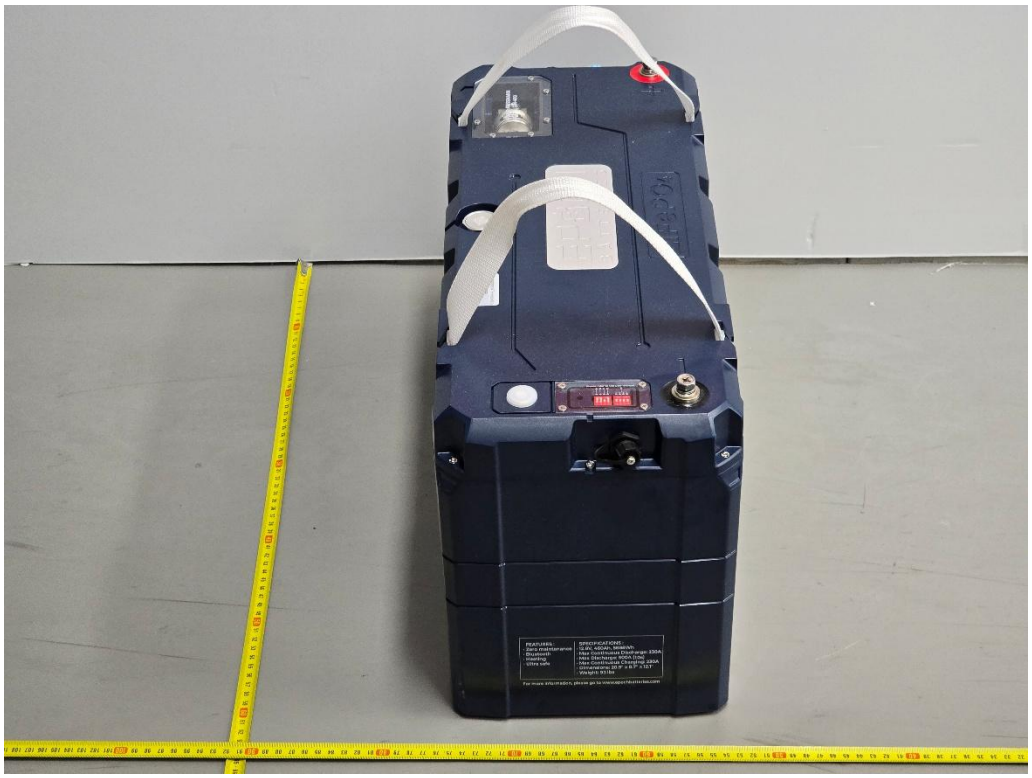


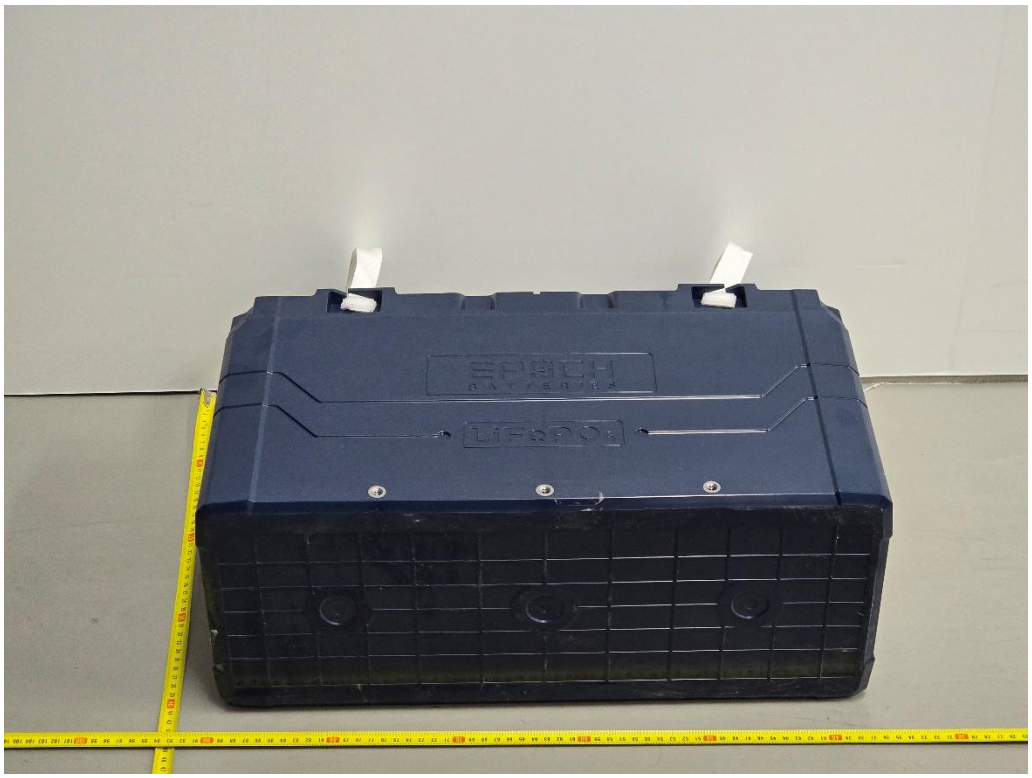


APPENDIX: PHOTOGRAPHS OF THE EUT









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