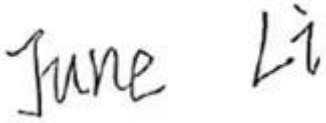
TEST REPORT

Application No.:	BTEK241225126A02-T01
Applicant:	Shenzhen Litime Technology Co., Ltd
Address of Applicant:	Room 301, Building B, Tongzhou Electronics Longgang Factory, No. 1, Baolong 5th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Litime Technology Co., Ltd
Address of Manufacturer:	Room 301, Building B, Tongzhou Electronics Longgang Factory, No. 1, Baolong 5th Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China
Equipment Under Test (EUT):	
EUT Name:	LiTime 12.8V 165Ah Battery
Test Model.:	12.8V 165Ah
Adding Model(s):	12.8V 165Ah Smart, 12.8V 165Ah Group31, 12.8V 165Ah Group27, 12.8V 165Ah H190, 12.8V 165Ah LTCP, 12.8V 165Ah Plus, 12.8V 165Ah Pro, 12.8V 165Ah Self-Heating, 12.8V 165Ah BT, 12.8V 165Ah HBT
Trade Mark:	LiTime
FCC ID:	2BDSV12165
Standard(s) :	47 CFR Part 2 Subpart J Section 2.1091 447498 D01 General RF Exposure Guidance v06
Date of Receipt Sample(s):	2025-01-15
Date of Test:	2025-01-16 to 2025-03-03
Date of Issue:	2025-03-04
Test Result:	**Pass***

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

Lion Cai/ Approved & Authorized
EMC Laboratory Manager

Revision Record			
Version	**Issue Date**	**Revisions**	**Remarks**
V0	*2025-03-04*	Initial	Valid

Authorized for issue by				
		 **Karl Liu / File Editor**		
		 **June Li/Reviewer**		

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Contents

Page

1 Cover Page 1

2 Contents 3

3 General Information 4

3.1 Details of E.U.T. 4
3.2 Description of Support Units 4
3.3 Test Location 4
3.4 Deviation from Standards 4
3.5 Abnormalities from Standard Conditions 4

4 Test Requirement 5

4.1Assessment Result 5

3 General Information

3.1 Details of E.U.T.

Power supply:	DC 12.8V 165A
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 BLE
Modulation Type:	GFSK
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	1.2 dBi
Sample No.:	BTEK241225126A02E
Model(s) Difference Statement	☐Single Model.
	☒Multi-Models:12.8V 165Ah,12.8V 165Ah Smart, 12.8V 165Ah Group31, 12.8V 165Ah Group27, 12.8V 165Ah H190, 12.8V 165Ah LTCP, 12.8V 165Ah Plus, 12.8V 165Ah Pro, 12.8V 165Ah Self-Heating, 12.8V 165Ah BT,12.8V 165Ah HBT Only the model 12.8V 165Ah was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No

3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/

3.3 Test Location

All tests were performed at:
Shenzhen BANTEK Testing Co., Ltd.,
A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518103
Tel:0755-2334 4200 Fax: 0755-2334 4200
FCC Registration Number: 264293
Designation Number: CN1356
No tests were sub-contracted.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None

4 Test Requirement

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v06, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*($900/f^2$)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

Friis transmission formula: **$Pd = (Pout*G)/(4*pi*r^2)$**

Where

Pd = power density in mW/cm^2, **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm^2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1Assessment Result

☒ **Passed** ☐ **Not Applicable**

Frequency (MHz)	Type	Conducted Power (dBm)	Maximum Tune-up (dBm)	Power Density (mW/cm^2)	Limit ($mW/cm^{2)}$	Result
2440	BLE-1M	2.75	3	0.0005	1.0000	Pass

Note: 1.The exposure evaluation safety distance is 20cm.

2.Only show the worst case in the test report.

- End of the Report -