

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR231000347406

Page: 1 of 12

RF Exposure Report

Application No.:

Applicant: Mammotion Technology Co., Limited

Address of Applicant: UNIT 89 3/F YAU LEE CENTRE NO.45 HOI YUEN ROAD, KWUN

TONG KL HONG KONG China

Manufacturer: Mammotion Technology Co., Limited

Address of Manufacturer: UNIT 89 3/F YAU LEE CENTRE NO.45 HOI YUEN ROAD, KWUN

> TONG KL HONG KONG China Huizhou BYD Electronic Co., Ltd.

Address of Factory: Daya Bay Economic and Technological Development Zone, Huizhou City

Equipment Under Test (EUT):

Factory:

EUT Name: Luba 2 AWD

Model No.: 1000, 3000, 5000, 10000, 1000H, 3000H, 5000H, 10000H

Please refer to section 2.1 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Mammotion

FCC ID: 2A8QJ-LUBA2AWD

FCC Rules 47 CFR §2.1091 Standard(s):

KDB 447498 D04 interim General RF Exposure Guidance v01

2023-10-31 **Date of Receipt:**

2023-11-09 to 2024-01-05 **Date of Test:**

2024-01-09 Date of Issue:

Test Result: Pass*

Keny. xu Kenv 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		2024-01-09		Original

Authorized for issue by:		
	Darren Yuan	
	Darren Yuan/Project Engineer	-
	Exic Fu	
	Eric Fu/Reviewer	-



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2 General Information

2.1 General Description of E.U.T.

	☐ Portable device
Product Type:	
	☐ Fixed device

2.2 Details of E.U.T.

LIL Details of L.C.T.	
Power supply:	Powered by Rechargeable Li-ion Battery.
	Battery information 1#
	Rated Voltage: 21.6VDC
	Rated Capacity: 9.6Ah/207.36Wh
	Battery information 2#
	Rated Voltage: 21.6VDC
	Rated Capacity: 4.5Ah/97.2Wh
	Charging station information
	Model: CHG0002, CHG0003
	Input: 25.2VDC, 176.4W
	Output: 22.6VDC, 7.0A
	Charging station adapter information
	Model: GQ180-2520700-E4
	Input: 100-240VAC, 50/60Hz 2.5A Max
	Output: 25.2VDC, 7.0A, 176.4W
Lora:	
Frequency Range:	902.5-926.8MHz
Modulation Type:	CSS
Number of Channels:	26
Antenna Type:	PIFA Antenna
Antenna Gain:	1.5dBi



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BLE:

Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	2.5dBi

2.4G Wi-Fi:

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2472MHz,
	802.11n(HT40): 2422MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK),
	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 13, 802.11n(HT40):9
Antenna Type:	PIFA Antenna
Antenna Gain:	2.5dBi



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5G Wi-Fi:

Operation Frequency	U-NII-2C: 5500MHz-5700MHz
(20MHz):	U-NII-3: 5745MHz -5825MHz
Operation Frequency	U-NII-2C: 5510MHz-5670MHz
(40MHz):	U-NII-3: 5755MHz -5795MHz
Channel number (20MHz):	U-NII-2C: 11, U-NII-3: 5
Channel number (40MHz):	U-NII-2C: 5, U-NII-3: 2
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing:	802.11a/n(HT20): 20MHz
	802.11n(HT40): 40MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna



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LTE Module (FCC ID: ZMONL668AM00, this module has got certified)

WCDMA

Frequency band:	Band	Tx (MHz)	Rx (MHz)
	BAND II	1850-1910	1930-1990
	BAND IV	1710-1755	2110-2155
	BAND V	824-829	869-894
Type of Modulation:	UL QPSK DL QPSK		
Antenna Gain:	Band II: 7.0dBi, Band IV: 5.0dBi, Band V: 7.0dBi		

LTE				
	Band	Uplink (MHz)	Downlink (MHz)	
	LTE band 2	1850-1910	1930-1990	
	LTE band 4	1710-1755	2110-2155	
	LTE band 5	824-829	869-894	
Frequency band:	LTE band 12	699-716	729-746	
l requeries same.	LTE band 13	777-787	746-756	
	LTE band 17	704-716	734-746	
	LTE band 66	1710-1780	2110-2200	
	LTE band 71	663-698	617-652	
Type of Modulation:	UL QPSK,16QAM DL QPSK,16QAM			
	LTE B2: 7.0dBi; LTE B4: 5.0dBi; LTE B5: 7.0dBi			
Antenna gain	LTE B12: 7.0dBi; LTE B13: 7.0dBi; LTE B17: 7.0dBi			
	LTE B66: 5.0dBi; LTE B71: 7.0dBi			



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Declaration of EUT Family Grouping:

Model No.: 1000, 3000, 5000, 10000, 1000H, 3000H, 5000H, 10000H

Only the model 5000 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were

identical for the above models, with only difference on model No. and battery capacity.

defined for the above medels, with only difference of medel ve. and battery departs.		
Model	Battery Capacity	
1000	21.6Vdc, 4.5Ah, 97.2Wh	
3000	21.6Vdc, 9.6Ah, 207.36Wh	
5000	21.6Vdc, 9.6Ah, 207.36Wh	
10000	21.6Vdc, 9.6Ah, 207.36Wh	
1000H	21.6Vdc, 4.5Ah, 97.2Wh	
3000H	21.6Vdc, 9.6Ah, 207.36Wh	
5000H	21.6Vdc, 9.6Ah, 207.36Wh	
10000H	21.6Vdc, 9.6Ah, 207.36Wh	

Considering to the difference, both batteries are pre-tested, Higher capacity battery is the worst-case, only the worst-case test data were recorded in this report.

Separation Distance

_		
Ν	linimum test separation distance:	20cm

Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.



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2.3 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.

2.4 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.



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3 FCC Radiofrequency radiation exposure limits

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)			
Limits for General Population/Uncontrolled Exposure							
0.3-1.34	614	614 1.63 *(100)		30			
1.34-30	824/f	2.19/f	*(180/f2)	30			
30-300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			



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4 Measurement and Calculation

Power density Calculation

According to the formula S=P/4 π R², we can calculate S which is MPE.

- 1) P=Output Power at Antenna Terminals (mW)
- 2) R = distance to the center of radiation of antenna (in centimeter)
- 3) MPE limit = 1mW/cm²

Standalone Transmitter:

Mode	Frequency (MHz)	Maximum Conducted power (dBm)	Antenna Gain(dBi)	Power desity (mw/cm²)	Limit (mw/cm²)	MPE ratio	Result
Lora	916.125	20.79	1.5	0.034	0.611	0.055	Pass
BLE	2440	7.41	2.5	0.002	1.000	0.002	Pass
2.4G Wi-Fi	2462	17.85	2.5	0.022	1.000	0.022	Pass
5G Wi-Fi	5785	19.13	3.1	0.033	1.000	0.033	Pass
WCDMA BAND II	1852.4	24.5	7	0.281	1.000	0.281	Pass
WCDMA BAND IV	1712.5	24.5	5	0.177	1.000	0.177	Pass
WCDMA BAND V	826.4	24.5	7	0.281	0.551	0.510	Pass
LTE band 2	1850.7	24	7	0.251	1.000	0.251	Pass
LTE band 4	1710.7	24	5	0.158	1.000	0.158	Pass
LTE band 5	824.7	24	7	0.251	0.550	0.456	Pass
LTE band 12	699.7	24	7	0.251	0.466	0.537	Pass
LTE band 13	779.5	24	7	0.251	0.520	0.482	Pass
LTE band 17	706.5	24	7	0.251	0.471	0.532	Pass
LTE band 66	1710.7	24	5	0.158	1.000	0.158	Pass
LTE band 71	665.5	24	7	0.251	0.444	0.565	Pass

Note1: The Power Data for Lora is based on the RF Test report SZCR231000347402.

Note2: The Power Data for BLE is based on the RF Test report SZCR231000347403.

Note3: The Power Data for 2.4G Wi-Fi is based on the RF Test report SZCR231000347404.

Note4: The Power Data for 5G Wi-Fi is based on the RF Test report SZCR231000347405.

Note5: The power Date for WCDMA and LTE are based on the module MPE report: FA8O1914.



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Simultaneous transmission

Test Mode	Lora	BLE	2.4G Wi-Fi	5G Wi-Fi	LTE Module	Total Ratio	Limit	Result
Ratio	0.055	0.002	0.022	0.033	0.565	N/A	N/A	N/A
Scenario 1	\square				\square	0.622	1.0	Pass
Scenario 2	\square				\square	0.642	1.0	Pass
Scenario 3	\square				☑	0.653	1.0	Pass

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

-- End of the Report--



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