

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240200058406

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RF EXPOSURE EVALUATION REPORT

Application No.: SZCR2402000584AT

Applicant: Shenzhen Mammotion Innovation Co., Limited

Address of Applicant: 9th Floor, Building A3, Nanshan Zhiyuan, Changyuan Community, Nanshan

District, Shenzhen, China

Shenzhen Mammotion Innovation Co., Limited Manufacturer:

Address of Manufacturer: 9th Floor, Building A3, Nanshan Zhiyuan, No. 1001 Xueyuan Avenue,

Changyuan Community, Taoyuan Street, Nanshan District, Shenzhen

Factory: Huizhou BYD Electronic Co., Ltd.

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

Equipment Under Test (EUT):

EUT Name: YUKA

Model No.: 600, 1000, 1500, 2000

Please refer to section 3.2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Mammotion FCC ID: 2BFWS-YUKA

FCC Rules 47 CFR §2.1091 Standard(s):

KDB 447498 D04 interim General RF Exposure Guidance v01

2024-02-23 **Date of Receipt:**

2024-04-03 to 2024-04-22 Date of Evaluation:

Date of Issue: 2024-04-22

Pass* **Evaluation Result:**

Keny Xu

EMC Laboratory Manager

Ceny. Ku



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



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	Revision Record								
Version Chapter Date Modifier Rem									
01		2024-04-22		Original					

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



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General Information 3

3.1 General Description of E.U.T.

· • • • • • • • • • • • • • • • • • • •	
	☐ Portable device
Product Type:	⊠ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

J.Z	Details of L.U.T.	
	Power supply:	Powered by Rechargeable Li-ion Battery.
		Battery information
		Model: YUKA
		Rated Voltage: 21.6Vdc
		Rated Capacity: 4.5Ah/97.2Wh
		Charging station information
		Model: CHG0004
		Input: 30Vdc, 90W
		Output: 30Vdc, 3A
		Charging station adapter information
		Model: TS-A090-3003001
		Input: 100-240VAC, 50/60Hz 2.0A Max
		Output: 30Vdc, 3.0A, 90W
	For Lora:	
	Operation Frequency:	902.5-926.8MHz
	Modulation Type:	CSS
	Number of Channels:	26
	Antenna Type:	PIFA Antenna
	Antenna Gain:	1.5dBi
	For BLE:	
	Operation Frequency:	2402MHz to 2480MHz
	Modulation Type:	GFSK
	Number of Channels:	40
	Channel Spacing:	2MHz
	Antenna Type:	PIFA Antenna
	Antenna Gain:	5.8dBi



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For 2.4G WIFI:	
Operation Fraguency:	802.11b/g/n(HT20): 2412MHz to 2472MHz,
Operation Frequency:	802.11n(HT40): 2422MHz to 2462MHz
Madulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK),
Modulation Type:	802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	5MHz
Channel Spacing:	802.11b/g/n(HT20): 13, 802.11n(HT40):9
Antenna Type:	PIFA Antenna
Antenna Gain:	5.8dBi
For 5G WIFI:	
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
Madulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)
Modulation Type:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channal Chasing	802.11a/n(HT20): 20MHz
Channel Spacing:	802.11n(HT40): 40MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	U-NII-2C: 4.9dBi
Antenna Gam.	U-NII-3: 4dBi

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

WCDMA

	Band	Tx (MHz)	Rx (MHz)	
Frequency band:	BAND II	1850-1910	1930-1990	
Frequency band.	BAND IV	1710-1755	2110-2155	
	BAND V	824-829	869-894	
Type of Modulation:	ion: UL QPSK DL QPSK			
Antenna Gain:	Band II: 0.2dBi, Band IV: 0.9dBi, Band V: 1.7dBi			



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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		
r roqueriey barra.	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: 0.2dBi; LTE B4: 0.9dBi; LTE B5: 1.7dBi				
Antenna gain	LTE B12: -1.1dBi; LTE B13: -1.7dBi; LTE B17: -1.1dBi				
	LTE B66: 0.9dBi; LTE B71: -1.1dBi				

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.

Declaration of EUT Family Grouping:

Model No.: 600, 1000, 1500, 2000

Only the model 1500 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 model No..



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3.3 Separation Distance

Minimum 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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3.4 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.

3.5 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.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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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	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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Measurement and Calculation

Power density Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P=Output Power at Antenna Terminals (mW)
- R = distance to the center of radiation of antenna (in centimeter) 2)
- 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	19.79	1.5	0.027	0.611	0.044	Pass
BLE	2402	6.88	5.8	0.004	1.000	0.004	Pass
2.4G Wi-Fi	2412	18.4	5.8	0.052	1.000	0.052	Pass
5G Wi-Fi	5700	19.53	4.9	0.055	1.000	0.055	Pass
WCDMA BAND II	1852.4	24.5	0.2	0.059	1.000	0.059	Pass
WCDMA BAND IV	1712.5	24.5	0.9	0.069	1.000	0.069	Pass
WCDMA BAND V	826.4	24.5	1.7	0.083	0.551	0.151	Pass
LTE band 2	1850.7	24	0.2	0.052	1.000	0.052	Pass
LTE band 4	1710.7	24	0.9	0.062	1.000	0.062	Pass
LTE band 5	824.7	24	1.7	0.074	0.550	0.135	Pass
LTE band 12	699.7	24	-1.1	0.039	0.466	0.083	Pass
LTE band 13	779.5	24	-1.7	0.034	0.520	0.065	Pass
LTE band 17	706.5	24	-1.1	0.039	0.471	0.082	Pass
LTE band 66	1710.7	24	0.9	0.062	1.000	0.062	Pass
LTE band 71	665.5	24	-1.1	0.039	0.444	0.087	Pass

Note1: The Power Data for Lora is based on the RF Test report SZCR240200058402.

Note2: The Power Data for BLE is based on the RF Test report SZCR240200058403.

Note3: The Power Data for 2.4G Wi-Fi is based on the RF Test report SZCR240200058404.

Note4: The Power Data for 5G Wi-Fi is based on the RF Test report SZCR240200058405.

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	0.044	0.004	0.052	0.055	0.151	N/A	N/A	N/A
Scenario 1					\square	0.199	1.0	Pass
Scenario 2	\square					0.247	1.0	Pass
Scenario 3	$\overline{\square}$			$\overline{\square}$		0.250	1.0	Pass

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

6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2402000584AT

-End of the Report-



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