



Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: www.cqa-cert.com

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RF Exposure Evaluation Report

Report No.: CQASZ20221001813E-05
Applicant: eMoMo Technology Co.,Ltd
Address of Applicant: 4th, Floor, Yong He Building, Tai Wan Industrial Park, Shi Yan Town, Bao'an District, Shen Zhen, 518100, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Smart tabletop
Model No.: iTable3BCRRU, iTable3CRRU, iTable3BCU, iTable3BCRR, iTable3BRRU, iTable3RRU, iTable3CLRRU, iTable3CU, iTable3BCLU, iTable3CRRU, iTable3BCLU-C, iTable3CLRRUA, iTable312BCLRRU, iTable3BCLRRU-C, iTable3CRRUA, iTable312BCHLRU, iTable3
Test Model No.: iTable3
Brand Name: EMOMO
FCC ID: A4E-ITABLE3A
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2022-10-24
Date of Test: 2022-10-24 to 2023-01-09
Date of Issue: 2023-03-24
Test Result: PASS*

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

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20221001813E-05	Rev.01	Initial report	2023-03-24

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3 General Information

3.1 Client Information

Applicant:	eMoMo Technology Co.,Ltd
Address of Applicant:	4th, Floor, Yong He Building, Tai Wan Industrial Park, Shi Yan Town, Bao'an District, Shen Zhen, 518100, Guangdong, China
Manufacturer:	eMoMo Technology Co.,Ltd
Address of Manufacturer:	4th, Floor, Yong He Building, Tai Wan Industrial Park, Shi Yan Town, Bao'an District, Shen Zhen, 518100, Guangdong, China
Factory:	eMoMo Technology Co.,Ltd
Address of Factory:	4th, Floor, Yong He Building, Tai Wan Industrial Park, Shi Yan Town, Bao'an District, Shen Zhen, 518100, Guangdong, China

3.2 General Description of EUT

Product Name:	Smart tabletop
Model No.:	iTable3BCRRU, iTable3CRRU, iTable3BCU, iTable3BCRR, iTable3BRRU, iTable3RRU, iTable3CLRRU, iTable3CU, iTable3BCLU, iTable3CRRU, iTable3BCLU-C, iTable3CLRRUA, iTable312BCLRRU, iTable3BCLRRU-C, iTable3CRRUA, iTable312BCHLRU, iTable3
Test Model No.:	iTable3
Trade Mark:	EMOMO
Software Version:	V01
Hardware Version:	V02
EUT Power Supply:	AC100V~240V/50~60HZ DC:29V2A

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	☒ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	3.38 dBi
Cable loss:	1.0 dB

3.4 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 5.0
Modulation Type:	GFSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps

Sample Type:	☒ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	3.38 dBi
Cable loss:	1.0 dB

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.1.3 EUT RF Exposure

1) For BT Classic

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	-0.1	-2.25	-2.5 ± 1	-1.5	0.71
Middle(2441MHz)	0	-2.15	-2.5 ± 1	-1.5	0.71
Highest(2480MHz)	-1.64	-3.79	-3.5 ± 1	-2.5	0.56
$\pi/4$ DQPSK mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	-0.22	-2.37	-2.5 ± 1	-1.5	0.71
Middle(2441MHz)	-0.23	-2.38	-2.5 ± 1	-1.5	0.71
Highest(2480MHz)	-1.72	-3.87	-4.0 ± 1	-3.0	0.50
8DPSK mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	-0.39	-2.54	-2.5 ± 1	-1.5	0.71
Middle(2441MHz)	-0.12	-2.27	-2.5 ± 1	-1.5	0.71
Highest(2480MHz)	-2.27	-4.42	-4.5 ± 1	-3.5	0.45

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20221001813E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

2) For BLE

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode(1Mbps)					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	1.92	-0.23	-0.5±1	0.5	1.12
Middle(2440MHz)	2.75	0.6	0.5±1	1.5	1.41
Highest(2480MHz)	2.71	0.56	0.5±1	1.5	1.41
GFSK mode(2Mbps)					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2402MHz)	1.71	-0.44	-0.5±1	0.5	1.12
Middle(2440MHz)	2.48	0.33	0.5±1	1.5	1.41
Highest(2480MHz)	2.53	0.38	0.5±1	1.5	1.41

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20221001813E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***