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RF Exposure Evaluation Report

Report No. : CQASZ20180500101E-03

Applicant: 1MORE INC.

Address of Applicant: Tianliao Building F14 East Block (New Materials Industrial Park), Xueyuan Road, Nanshan District, Shenzhen, China

Manufacturer: 1MORE Shen Zhen Acoustic Technology Co., Ltd.

Address of Manufacturer: Tianliao Building 1403-1411, Zone A Tianliao Industrial Park, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Equipment Under Test (EUT):

Product: 1MORE Stylish Dual-dynamic Driver BT In-Ear Headphones

Model No.: E1024BT

Brand Name: 1MORE

FCC ID: 2AF8ZE1024BT

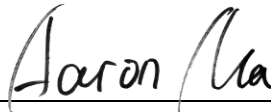
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-05-25 to 2018-07-04

Date of Issue: 2018-07-04

Test Result : **PASS***

Tested By:



(Aaron Ma)

Reviewed By:



(Jack Ai)

Approved By:



(Jack Ai)



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

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.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180500101E-03	Rev.01	Initial report	2018-07-04

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4 General Information

4.1 Client Information

Applicant:	1MORE INC.
Address of Applicant:	Tianliao Building F14 East Block (New Materials Industrial Park), Xueyuan Road, Nanshan District, Shenzhen, China
Manufacturer:	1MORE Shen Zhen Acoustic Technology Co., Ltd.
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4.2 General Description of EUT

Product Name:	1MORE Stylish Dual-dynamic Driver BT In-Ear Headphones
Model No.:	E1024BT
Trade Mark:	1MORE
Hardware Version:	FW_E1024_BM20L_V0.7
Software Version:	PCB-EM022-V0.3(2018-05-10)
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.1
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	BT classic: GFSK, $\pi/4$ DQPSK, 8DPSK BLE: GFSK
Number of Channel:	BT classic:79 BLE:40
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	portable production
Test Software of EUT:	Non Signaling Test Tool (manufacturer declare)
Antenna Type:	Wired antenna
Antenna Gain:	-0.73dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

For BT: Measurement Data

GFSK mode	
Test channel	Peak Output Power (dBm)
Lowest	2.420
Middle	2.180
Highest	0.460
$\pi/4$ DQPSK mode	
Test channel	Peak Output Power (dBm)
Lowest	2.290
Middle	2.080
Highest	0.410
8DPSK mode	
Test channel	Peak Output Power (dBm)
Lowest	2.320
Middle	2.140
Highest	0.490

Remark: The Conducted Peak Output Power data refer to report Report No.: CQASZ20180500101E-01

For BLE:

Measurement Data

GFSK mode	
Test channel	Peak Output Power (dBm)
Lowest	-5.6
Middle	-5.81
Highest	-5.41

Remark: The Conducted Peak Output Power data refer to report Report No.: CQASZ20180500101E-02

BDR, EDR and BLE can not simultaneous transmitting at same time.

The worst case data: GFSK_lowest channel

The Max Conducted Peak Output Power is 2.42dBm in lowest channel(2.402GHz);

The best case gain of the antenna is -0.73dBi.

EIRP= 2.42dBm – 0.73dBm= 1.69dBm

1.69Bm logarithmic terms convert to numeric result is nearly 1.48mW

According to the formula. calculate the EIRP test result:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})]}{[\sqrt{f(\text{GHz})}]}$$

General RF Exposure = $(1.48\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.46$ ①

SAR requirement:

S= 3.0 ② ;

① < ②.

So the SAR report is not required.