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RF Exposure Evaluation Report

Report No.: CQASZ20190900985E-02

Applicant: Moya Communication Technology (Shenzhen) Co.,Ltd.

Address of Applicant: Guang Hui Science Park, No.17 of Min Qing Road, Longhua District, Shenzhen

Equipment Under Test (EUT):

EUT Name: Helmet Bluetooth Headset

All Model No.: M2, M2S, M3, M3S

Test Model No.: M2

Brand Name: MAXTO

FCC ID: 2ATZP-MAXTO-M2 Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2019-09-27

Date of Test: 2019-09-27 to 2019-10-11

Date of Issue: 2019-10-12

Test Result: PASS*

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

Tested By:

(Tom Chen)

Sheek Luo

Approved By:



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.



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190900985E-02	Rev.01	Initial report	2019-10-12





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3 General Information

3.1 Client Information

Applicant:	Moya Commumication Technology (Shenzhen) Co.,Ltd.
Address of Applicant:	Guang Hui Science Park, No.17 of Min Qing Road, Longhua District, Shenzhen
Manufacturer:	Moya Commumication Technology (Shenzhen) Co.,Ltd.
Address of Manufacturer:	Guang Hui Science Park, No.17 of Min Qing Road, Longhua District, Shenzhen

3.2 General Description of EUT

Product Name:	Helmet Bluetooth Headset
All Model No.:	M2, M2S, M3, M3S
Test Model No.:	M2
Trade Mark:	MAXTO
Hardware Version:	V02
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	Blue test 3 (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	2dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

Note:

All model No.: M2, M2S, M3, M3S

Only the model M2 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being appearance and model name.



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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 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:

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

f(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 \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





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4.1.3 EUT RF Exposure

Measurement Data

Measurement Data				
	GFSK	mode		
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	(mW)
Lowest(2402MHz)	3.660	4±1	5	3.162
Middle(2441MHz)	4.330	4±1	5	3.162
Highest(2480MHz)	4.880	4±1	5 3.162	
	π/4DQPS	SK mode		
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	(mW)
Lowest(2402MHz)	4.740	5±1	6	3.981
Middle(2441MHz)	5.160	5±1	6	3.981
Highest(2480MHz)	5.570	5±1	6	3.981
	8DPSK	mode		
Test channel	Peak Output Power	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	(mW)
Lowest(2402MHz)	4.980	5±1 6		3.981
Middle(2441MHz)	5.480	5±1	6	3.981
Highest(2480MHz)	5.600	5±1	6	3.981

Channel	Maximum Peak Conducted Output Power (dBm) Tune up tolerance (dBm)	Maximum tune- up Power		Calculated	Exclusion	
		(dBm)	(mW)	value	threshold	
Lowest (2402MHz)	4.980	5±1	6	3.981	1.23	
Middle (2441MHz)	5.480	5±1	6	3.981	1.24	3.0
Highest (2480MHz)	5.600	5±1	6	3.981	1.25	

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190900985E-01