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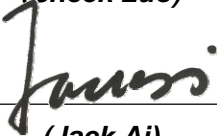
RF Exposure Evaluation Report

Report No.: CQASZ20200500456E-02
Applicant: Shenzhen Mengxiang Technology Co., Ltd
Address of Applicant: 3 Floor, No.16 Building, Tongfucun Park, Dalang Longhua District, Shenzhen City, Guangdong Province, China
Equipment Under Test (EUT):
EUT Name: 2.1speaker
Model No.: D35MH8L
Brand Name: technicalPro
FCC ID: 2AN3ID35MH8L
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2020-06-01
Date of Test: 2020-06-01 to 2020-06-09
Date of Issue: 2020-06-09
Test Result: **PASS***

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

Tested By: 

(Tom Chen)
Reviewed By: 

(Sheek Luo)
Approved By: 

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200500456E-02	Rev.01	Initial report	2020-06-09

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Mengxiang Technology Co., Ltd
Address of Applicant:	3 Floor, No.16 Building, Tongfucun Park, Dalang Longhua District, Shenzhen City, Guangdong Province, China
Manufacturer:	Shenzhen Mengxiang Technology Co., Ltd
Address of Manufacturer:	3 Floor, No.16 Building, Tongfucun Park, Dalang Longhua District, Shenzhen City, Guangdong Province, China

3.2 General Description of EUT

Product Name:	2.1speaker
Model No.:	D35MH8L
Trade Mark:	technicalPro
Hardware Version:	V1
Software Version:	V1
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
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:	<input type="checkbox"/> Mobile <input type="checkbox"/> Portable <input checked="" type="checkbox"/> Fix Location
Test Software of EUT:	MV FrequencyTool v0.2.5 (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	AC/DC ADAPTER Model: BSG-100W1804500 Input: 100-240V~, 2.0A Max 50/60Hz Output: 18V 4.5A

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 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 ≤ 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

4.1.3 EUT RF Exposure

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	6.240	5.5±1	6.5	4.467
Middle(2441MHz)	3.530	3.0±1	4.0	2.512
Highest(2480MHz)	1.320	0.5±1	1.5	1.413
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	6.180	5.5±1	6.5	4.467
Middle(2441MHz)	3.550	3.0±1	4.0	2.512
Highest(2480MHz)	1.320	0.5±1	1.5	1.413
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	6.180	5.5±1	6.5	4.467
Middle(2441MHz)	3.520	3.0±1	4.0	2.512
Highest(2480MHz)	1.320	0.5±1	1.5	1.413

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	6.240	5.5±1	6.5	4.467	1.385	3.0
Middle (2441MHz)	3.530	3.0±1	4.0	2.512	0.785	
Highest (2480MHz)	1.320	0.5±1	1.5	1.413	0.445	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20200500456E-01.