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RF Exposure Evaluation Report

Report No. : CQASZ20210700040EX-02

Applicant: Shenzhen Hansheng Technology Co., Ltd

Address of Applicant: Floor 4, F building, north No.2, Shangxue Technology Park, Bantian Street, Longgang District, Shenzhen City.

Manufacturer: Shenzhen Hansheng Technology Co., Ltd

Address of Manufacturer: Floor 4, F building, north No.2, Shangxue Technology Park, Bantian Street, Longgang District, Shenzhen City.

Equipment Under Test (EUT):

Product: Desktop circulating fan

All Model No.: F06, F06E

Test Model No.: F06

Brand Name: N/A

FCC ID: 2A2EN-F06

Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06

Date of Test: Jun. 09, 2021 – Jun. 30, 2021

Date of Issue: Jun. 30, 2021

Test Result : PASS

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210700040EX-02	Rev.01	Initial report	Jun. 30, 2021

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Hansheng Technology Co., Ltd
Address of Applicant:	Floor 4, F building, north No.2, Shangxue Technology Park, Bantian Street, Longgang District, Shenzhen City.
Manufacturer:	Shenzhen Hansheng Technology Co., Ltd
Address of Manufacturer:	Floor 4, F building, north No.2, Shangxue Technology Park, Bantian Street, Longgang District, Shenzhen City.

3.2 General Description of EUT

Product Name:	Desktop circulating fan
All Model No.:	F06, F06E
Test Model No.:	F06
Trade Mark:	/
Hardware Version:	/
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK
Operation Frequency:	2402-2480MHz
Transfer Rate:	1Mbps
Number of Channel:	40
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PCB antenna
Antenna Gain:	-3 dBi
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
Power Supply:	battery: 3.7V Charging : DC 5.0V 1A

4 RF Exposure 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 ≤ 5.0 mm are determined by:

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

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

1) For BT

Measurement Data

GFSK mode				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-4.385	-4±1	-3	0.501
Middle(2440MHz)	-4.646	-4±1	-3	0.501
Highest(2480MHz)	-4.859	-4±1	-3	0.501

Worst case: GFSK

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tuneup Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-4.385	-4±1	-3	0.501	0.155	3.0
Middle (2440MHz)	-4.646	-4±1	-3	0.501	0.157	
Highest (2480MHz)	-4.859	-4±1	-3	0.501	0.158	

Conclusion: the calculated value ≤ 3.0 , SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20210700040EX-01