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RF Exposure Evaluation Report

Report No.: CQASZ20260501017E-03
Applicant: DREO PTE. LTD.
Address of Applicant: 112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902
Equipment Under Test (EUT):
Product: Smart TurboPoly Fan
Model No.: DR-HPF008AS, DR-HPF008S, DWPFF08S
Test Model No.: DR-HPF008AS
Brand Name: DREO, DREO HOME
FCC ID: 2BPBC-HPF008A
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2026-05-20
Date of Test: 2026-05-20 to 2026-05-28
Date of Issue: 2026-6-4
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)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260501017E-03	Rev.01	Initial report	2026-6-4

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3 General Information

3.1 Client Information

Applicant:	DREO PTE. LTD.
Address of Applicant:	112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902
Manufacturer:	DREO PTE. LTD.
Address of Manufacturer:	112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902
Factory:	Huizhou Huimo Technology Co., Ltd
Address of Factory:	Office building Tower four, Tower Five, Tower Six of Shuangjie Industrial Co., Ltd., Yinshan Industrial Zone, Beilian Village, Liangjing Town, Huiyang District, HUIZHOU CITY, Guangdong Province
Factory:	QUNYOU (CAMBODIA) ELECTRIC APPLIANCE CO.,LTD.
Address of Factory:	Giga SEZ, St.National Road No. 1, Daeum Pou Village., Kandeing Reay Commune., Svay Teab District., SVAY RIENG PROVINCE, CAMBODIA

3.2 General Description of EUT

Product Name:	Smart TurboPoly Fan
Model No.:	DR-HPF008AS, DR-HPF008S, DWPF08S
Test Model No.:	DR-HPF008AS
Trade Mark:	DREO, DREO HOME
Software Version:	V1.0
Hardware Version:	V1.0
EUT Power Supply:	Power supply DC24V form adapter Adapter: Model:BLJ36WJ240150P-U Input:100-240V 50/60Hz 1.0A Output:24V 1.5A

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 5.3
Modulation Type:	GFSK
Number of Channel:	40
Transfer Rate:	1Mbps, 2Mbps
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	FPC antenna
Antenna Gain:	4.53dBi

3.4 General Description of 2.4G WIFI Classic

Operation Frequency:	2412MHz~2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	FPC antenna
Antenna Gain:	4.53dBi

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

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

4.2 1.1.3 EUT RF Exposure Evaluation

1) For BLE

Antenna Gain: 4.53dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.83 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	6.81	7.0±1	8	6.31
Middle(2440MHz)	8.11	8.5±1	9.5	8.91
Highest(2480MHz)	5.36	5.5±1	6.5	4.47

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
8.91	4.53	0.0050318667	1.0	PASS

Note: 1) Refer to report No. CQASZ20260501017E-01 for EUT test Max Conducted Peak Output Power value.

$$2) P_d = (P_{out} * G) / (4 * \pi * R^2) = (8.91 * 2.83) / (4 * 3.1416 * 20^2) = 0.0050318667$$

2) For 2.4G WIFI

Antenna Gain: 4.53dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.84 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	14.41	14.5±1	15.5	35.48
Middle(2437MHz)	14.63	15.0±1	16	39.81
Highest(2462MHz)	13.81	14.0±1	15	31.62

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
39.81	4.53	0.0224765230	1.0	PASS

Note: 1) Refer to report No. CQASZ20240901965E-01 for EUT test Max Conducted AV Output Power value.

2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (39.81 * 4.53) / (4 * 3.1416 * 20^2) = 0.0224765230$