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RF Exposure Evaluation Report

Report No.: CQASZ20250300565E-03

Applicant: Hesung Innovation Limited

Address of Applicant: Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui,

Kowloon, HongKong

Equipment Under Test (EUT):

EUT Name: Smart Air purifier

Model No.: DR-HAP006S, DWAP06S

Test Model No.: DR-HAP006S

Brand Name: DREO, DREO HOME

 FCC ID:
 2A3SYHAP006S

 Standards:
 47 CFR Part 1.1307

 47 CFR Part 1.1310

447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2025-3-18

Date of Test: 2025-3-18 to 2025-3-26

Date of Issue: 2025-4-6
Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By: _____

(Timo Lei)

Approved By: (lack Ai)



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	
CQASZ20250300565E-03	Rev.01	Initial report	2025-4-6	



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3 General Information

3.1 Client Information

Applicant:	Hesung Innovation Limited
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon, HongKong
Manufacturer:	Shenzhen Hesung Innovation Technology Co., Ltd
Address of Manufacturer:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, Nanshan District, Shenzhen
Factory:	Zhangzhou iHastek Inc.
Address of Factory:	No. 10, Jinda Road, Wanlida Industry Zone, Jinfeng Industrial Estate, Zhangzhou, Fujian, China
Factory:	IHASTEK (MALAYSIA) SDN. BHD.
Address of Factory:	PLO 39, Jalan Persiaran Teknologi,Taman Teknologi SENAI, Johor,81400,MALAYSIA

3.2 General Description of EUT

Product Name:	Smart Air purifier
Model No.:	DR-HAP006S, DWAP06S
Test Model No.:	DR-HAP006S
Trade Mark:	DREO, DREO HOME
Software Version:	1.0.59
Hardware Version:	PAI-051 V1.2 V1.1 20220119
EUT Power Supply:	Power supply AC 120V

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 5.2
Modulation Type:	GFSK
Number of Channel:	40
Transfer Rate:	1Mbps
Sample Type:	⊠ Mobile ☐ Portable
Antenna Type:	FPC antenna
Antenna Gain:	4.15dBi



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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:	4.15dBi				

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.



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4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 **Limits**

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP20cm inFormula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ /4 or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

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



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4.1.3 EUT RF Exposure

1) For BLE

Measurement Data

GFSK mode					
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power	
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)
Lowest(2402MHz)	7.34	5.19	5.0±1	6.0	3.981
Middle(2440MHz)	6.87	4.72	4.5±1	5.5	3.548
Highest(2480MHz)	6.28	4.13	5.0±1	6.0	3.981

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250300565E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.



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2) For 2.4G WIFI Classic

Measurement Data

Measurement Data						
11B mode						
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2412MHz)	18.9	16.75	17.0±1	18.0	63.096	
Middle(2437MHz)	18.43	16.28	16.5±1	17.5	56.234	
Highest(2462MHz)	17.4	15.25	15.5±1	16.5	44.668	
	11G mode					
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2412MHz)	17.76	15.61	15.5±1	16.5	44.668	
Middle(2437MHz)	17.33	15.18	15.0±1	16.0	39.811	
Highest(2462MHz)	16.13	13.98	14.0±1	15.0	31.623	
	11N20 mode					
Test channel	EIRP	ERP	Tune up tolerance	Maximum tune-up Power		
	(dBm)	(dBm)	(dBm)	(dBm)	(mW)	
Lowest(2412MHz)	17.53	15.38	15.5±1	16.5	44.668	
Middle(2437MHz)	17.03	14.88	15.0±1	16.0	39.811	
Highest(2462MHz)	15.97	13.82	14.0±1	15.0	31.623	

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20250300565E-02 for EUT test Max Conducted AV Output Power value.

2) EUT's module is more than 20cm away from the human body.

*** END OF REPORT ***