

# Delos Living LLC

## MPE ASSESSMENT REPORT

**Report Type:**

FCC Part §2.1091, §2.1093 and §1.1307(b) assessment report

**Model:**

WA280

**REPORT NUMBER:**

230800860SHA-004

**ISSUE DATE:**

August 19, 2024

**DOCUMENT CONTROL NUMBER:**

TTRFFCCMPE-01\_V1 © 2018 Intertek



**Applicant:** Delos Living LLC  
860 Washington St. – 4th Floor, New York, NY 10014, US

**Manufacturer:** Shenzhen Hiso Medical Technology Co., Ltd.  
A1109, Block A, Rongchao Yinglong Building, Longfu Road, Shangjing Community, Longcheng Street, Longgang District, Shenzhen, China

**Manufacturer Site:** SHENZHEN DINGXIN TECHNOLOGY CO., LTD  
201, Building F, No. 9, Gelan Road, Dahe Community, Guanhu Street, Longhua District, Shenzhen, China

**Product Name:** Air purifier

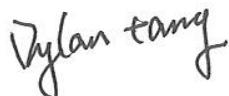
**Type/Model:** WA280

**FCC ID:** 2BC06-WA280

**SUMMARY:**

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06  
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

**PREPARED BY:**

Project Engineer  
Dylan Tang

**REVIEWED BY:**

Reviewer  
Wakeyou Wang

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**TEST REPORT****Revision History**

Report No.	Version	Description	Issued Date
230800860SHA-004	Rev. 01	Initial issue of report	August 19, 2024

**TEST REPORT****1 GENERAL INFORMATION****1.1 Description of Equipment Under Test (EUT)**

Product name:	Air purifier
Type/Model/PMN/HVIN:	WA280
Description of EUT:	The EUT is Air purifier, it supports Thread and 60G Radar functions, there is only one model. we test them and list the worst results in this report.
Rating:	DC 12V, 15W Input: 120VAC, 60Hz 1.5A Output: Type-C 5.0V == 3.0A, 9.0V == 2.2A, 12.0V == 1.7A 20W max
EUT type:	<input checked="" type="checkbox"/> Table top <input type="checkbox"/> Floor standing
Software Version:	V1.0.5
Hardware Version:	V1.2
Sample Identification No.:	0231226-05-001(for radiation sample), 0231226-05-002(for conduction sample)
Sample received date:	August 25, 2023
Date of test:	August 25, 2023 ~ November 20, 2023

**1.2 Technical Specification**

Frequency Range:	2405-2480MHz
Support Standards:	IEEE 802.15.4
Type of Modulation:	DSSS-OQPSK
Channel Number:	16
Data Rate:	250kbps
Antenna Information:	0.5dBi, PCB antenna

Frequency Range:	57000MHz ~ 62000MHz
Type of Modulation:	FMCW
Channel Number:	1
Antenna Information:	Plate patch antenna

**TEST REPORT****1.3 Description of Test Facility**

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

**TEST REPORT****2 MPE Assessment****Test result:** Pass**2.1 MPE Assessment Limit**

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density $S_{eq}$ (W/m <sup>2</sup> )
0-1 Hz	-	$3,2 \times 10^4$	$4 \times 10^4$	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	$4 000/f$	$5 000/f$	-
0,025-0,8 kHz	250/f	4/f	5/f	-
0,8-3 kHz	250/f	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	0,73/f	0,92/f	-
1-10 MHz	$87/f^{1/2}$	0,73/f	0,92/f	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is  $\leq 1.0$**

**TEST REPORT****2.2 Assessment Results**

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report: 230800860SHA-001&230800860SHA-002.

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

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Frequency band	Power		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dB <sub>i</sub>	(Numeric)	(cm)	(mW/cm <sup>2</sup> )	(mW/cm <sup>2</sup> )
2405 – 2480	5.96	3.94	0.5	1.12	20	0.0009	1
57000 - 62000	-10.261	0.094	10	10	20	0.00019	1

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1.

2.4G Thread and 60G Radar can simultaneous transmitting, so the maximum rate of MPE is,  $0.0009/1+0.00019/1=0.00109<=1.0$ .

**TEST REPORT**

## **Appendix I**

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

\*\*\*\*\*END\*\*\*\*\*