

**Shenzhen Global Test Service Co.,Ltd.**

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

RF Exposure evaluation**Report Reference No. : GTS20250530022-5-01****FCC ID. : 2AYD5-I24T0134**

Compiled by

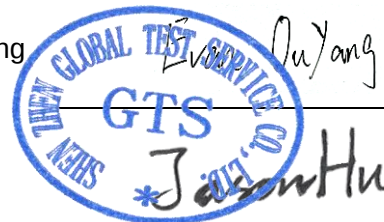
(position+printed name+signature): File administrators Peter Xiao

Supervised by

(position+printed name+signature): Test Engineer Evan Ouyang

Approved by

(position+printed name+signature) : Manager Jason Hu



Date of issue : Jun.25, 2025

Representative Laboratory Name : Shenzhen Global Test Service Co.,Ltd.

..... :

Address

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

Applicant's name..... : Imin Technology Pte Ltd

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Test specification

Standard..... : 47CFR §1.1310 Basis and purpose
47CFR §2.1091 Radiofrequency radiation exposure evaluation:
mobile devices
TRF Originator : Shenzhen Global Test Service Co.,Ltd.
Master TRF : Dated 2014-12

Shenzhen Global Test Service Co.,Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description : 80mm Wireless Printer Dock

Trade Mark



Manufacturer : Imin Technology Pte Ltd

Model/Type reference : I24T0134

Listed Models : N/A

Hardware Version : N/A

Software Version..... : N/A

Rating : DC 24V/2.5A by adapter

Result : **PASS**

TEST REPORT

Test Report No. :	GTS20250530022-5-01	Jun.25, 2025
		Date of issue

Equipment under Test : 80mm Wireless Printer Dock

Model /Type : I24T0134

Listed model : N/A

Applicant : **Imin Technology Pte Ltd**

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Manufacturer : **Imin Technology Pte Ltd**

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Test Result:	PASS
--------------	------

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1. SUMMARY 4

1.1 EUT CONFIGURATION..... 4

1.2 PRODUCT DESCRIPTION 4

2. TEST ENVIRONMENT 6

2.1 ADDRESS OF THE TEST LABORATORY 6

2.2 TEST FACILITY 6

2.3 ENVIRONMENTAL CONDITIONS 6

2.4 STATEMENT OF THE MEASUREMENT UNCERTAINTY 6

3. METHOD OF MEASUREMENT 7

3.1 APPLICABLE STANDARD..... 7

3.2 REQUIREMENT 7

3.3 LIMIT 7

3.4 MPE CALCULATION METHOD..... 8

3.5 ANTENNA INFORMATION 8

4. CONDUCTED POWER RESULTS..... 9

5. MANUFACTURING TOLERANCE 12

6. MEASUREMENT RESULTS 17

6.1 STANDALONE MPE EVALUATION..... 17

6.2 SIMULTANEOUS TRANSMISSION MPE 19

7. CONCLUSION 19

1. SUMMARY

1.1 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

●	N/A	M/N:	N/A
		Manufacturer:	N/A

1.2 Product Description

Product Name:	80mm Wireless Printer Dock
Trade Mark:	
Model/Type reference:	I24T0134
List Model:	N/A
Model Declaration	N/A
Power supply:	DC 24V/2.5A by adapter
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20250530022-5-S0001-1# , GTS20250530022-5-S0001-2#
Bluetooth	
Frequency Range	2402MHz ~ 2480MHz
Channel Number	79 channels for Bluetooth (DSS) 40 channels for Bluetooth (DTS)
Channel Spacing	1MHz for Bluetooth (DSS) 2MHz for Bluetooth (DTS)
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)
Antenna Description	Internal Antenna 1, 3.74dBi(Max.) for 2.4G Band
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11n HT40:2422-2452MHz IEEE 802.11ax HE20:2412-2462MHz IEEE 802.11ax HE40:2422-2452MHz
WLAN Modulation Type	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n/ax (HT20) 7 Channel for IEEE 802.11n/ax (HT40)
Channel separation:	5MHz
WIFI(5.2G/5.3G/5.7G/5.8G Band)	
WLAN Operation frequency	5180-5240MHz/ 5260MHz to 5320MHz/ 5500MHz to 5700MHz/ 5745MHz

	to 5825MHz
WLAN Modulation Type	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT20: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE20: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE40: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)
Channel number:	4 Channels for 20MHz bandwidth(5180-5240MHz) 4 Channels for 20MHz bandwidth(5260-5320MHz) 11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5270~5310MHz) 5 Channels for 40MHz bandwidth(5510-5670MHz) 2 channels for 40MHz bandwidth(5755~5795MHz)
Antenna Description	Internal Antenna 2, 3.74dBi(Max.) for 2.4G Band and 5.11dBi(Max.) for 5G Band

2. TEST ENVIRONMENT

2.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

No.7-101 and 8A-104, Building 7 and 8, DCC Cultural and Creative Garden, No.98, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, Guangdong

2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L8169)

Shenzhen Global Test Service Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2019 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA (Certificate No. 4758.01)

Shenzhen Global Test Service Co., Ltd. has been assessed by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4758.01.

Industry Canada Registration Number. is 24189.

FCC Designation Number is CN1401.

FCC Registered Test Site Number is 684561.

2.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. METHOD OF MEASUREMENT

3.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

KDB447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

3.2 Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498 D01 General RF Exposure Guidance v06 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0 . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

3.3 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

*=Plane-wave equivalent power density

3.4 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

As declared by the Applicant, the EUT transmits with the maximum source-based Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna is 3.74dBi & 5.11dBi for BT&WLAN, and the power drift from Turn-up Procedure provide by manufacturer as following states, the RF power density can be obtained.

3.5 Antenna Information

I24T0134 can only use antennas certificated as follows provided by manufacturer;

Internal Identification	Antenna Identification in Internal photos	Antenna type and antenna number	Operate frequency band	Maximum antenna gain
Antenna 1	BT	Internal Antenna	2.4 – 2.5 GHz 5.0 – 6.0 GHz	3.74dBi(Max.) for 2.4G band
Antenna 2	WLAN	Internal Antenna	2.4 – 2.5 GHz 5.0 – 6.0 GHz	3.74dBi(Max.) for 2.4G band 5.11dBi(Max.) for 5G band

4. Conducted Power Results

Bluetooth

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	9.73
	39	2441	7.42
	78	2480	10.76
$\pi/4$ DQPSK	0	2402	7.62
	39	2441	8.47
	78	2480	8.72
8DPSK	0	2402	7.78
	39	2440	8.57
	78	2480	8.83
GFSK(BT LE)	0	2402	5.43
	19	2440	6.29
	39	2480	6.55

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	14.91
	06	2437	15.07
	11	2462	14.84
802.11g	01	2412	18.31
	06	2437	18.63
	11	2462	19.07
802.11n(HT20)	01	2412	18.38
	06	2437	18.63
	11	2462	18.98
802.11n(HT40)	03	2422	18.82
	06	2437	19.14
	09	2452	19.30
802.11ax(HE20)	01	2412	18.69
	06	2437	18.93
	11	2462	19.59
802.11ax(HE40)	03	2422	19.09
	06	2437	19.32
	09	2452	19.63

5.2GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	8.57
	40	5200	9.15
	48	5240	9.34
802.11n20	36	5180	8.58
	40	5200	8.89
	48	5240	8.95
802.11n40	38	5190	8.56
	46	5230	9.00
802.11ac20	36	5180	8.40
	40	5200	8.84
	48	5240	8.99
802.11ac40	38	5190	8.64
	46	5230	8.94
802.11ax20	36	5180	8.25
	40	5200	8.64
	48	5240	8.83
802.11ax40	38	5190	8.33
	46	5230	8.79

5.3GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	52	5260	13.92
	56	5280	11.13
	64	5320	10.77
802.11n20	52	5260	11.09
	56	5280	10.80
	64	5320	10.64
802.11n40	54	5270	11.07
	58	5310	10.62
802.11ac20	52	5260	11.19
	56	5280	10.72
	64	5320	10.68
802.11ac40	54	5270	11.06
	58	5310	10.65
802.11ax20	52	5260	10.82
	56	5280	10.56
	64	5320	10.62
802.11ax40	54	5270	10.73
	58	5310	10.34

5.7GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	100	5500	8.74
	120	5600	8.23
	140	5700	8.21
802.11n20	100	5500	8.38
	120	5600	8.31
	140	5700	8.10
802.11n40	102	5510	8.46
	118	5590	8.26
	134	5670	8.56
802.11ac20	100	5500	8.51
	120	5600	8.48
	140	5700	8.13
802.11ac40	102	5510	8.57
	118	5590	8.29
	134	5670	8.57
802.11ax20	100	5500	8.28
	120	5600	8.31
	140	5700	7.92
802.11ax40	102	5510	8.20
	118	5590	7.94
	134	5670	8.32

5.8GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	11.81
	157	5785	13.52
	165	5825	14.47
802.11n20	149	5745	11.90
	157	5785	13.42
	165	5825	14.36
802.11n40	151	5755	12.25
	159	5795	13.85
802.11ac20	149	5745	11.81
	157	5785	13.43
	165	5825	14.36
802.11ac40	151	5755	12.30
	159	5795	13.88
802.11ax20	149	5745	11.81
	157	5785	13.27
	165	5825	14.15
802.11ax40	151	5755	11.98
	159	5795	13.58

5. Manufacturing Tolerance

Bluetooth			
GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	9.00	7.00	10.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
$\pi/4$ DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	7.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	7.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
GFSK BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	5.00	6.00	6.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

2.4GWLAN			
IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	14.00	15.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	18.00	18.00	19.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	18.00	18.00	18.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	18.00	19.00	19.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	18.00	18.00	19.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	19.00	19.00	19.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.00	9.00	9.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	8.00	9.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	8.00	8.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	8.00	8.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/

5.3GWLAN

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	13.00	11.00	10.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	11.00	10.00	10.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 52	Channel 56	/
Target (dBm)	11.00	10.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	11.00	10.00	10.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	11.00	10.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	10.00	10.00	10.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	10.00	10.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/

5.7GWLAN

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	8.00	8.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	8.00	8.00	7.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	8.00	7.00	8.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

5.8GWLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	13.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	13.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	12.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	13.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	12.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	13.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	11.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/

6. Measurement Results

6.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

BT

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
GFSK	11.00	12.5893	3.74	2.3659	0.0059	1.0000
$\pi/4$ DQPSK	9.00	7.9433	3.74	2.3659	0.0037	1.0000
8DPSK	9.00	7.9433	3.74	2.3659	0.0037	1.0000
GFSK (BT LE)	6.00	3.9811	3.74	2.3659	0.0019	1.0000

2.4GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
802.11b	16.00	39.8107	3.74	2.3659	0.0187	1.0000
802.11g	20.00	100.0000	3.74	2.3659	0.0471	1.0000
802.11n(HT20)	19.00	79.4328	3.74	2.3659	0.0374	1.0000
802.11n(HT40)	20.00	100.0000	3.74	2.3659	0.0471	1.0000
802.11ax(HE20)	20.00	100.0000	3.74	2.3659	0.0471	1.0000
802.11ax(HE40)	20.00	100.0000	3.74	2.3659	0.0471	1.0000

5.2GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
802.11a	10.00	10.0000	5.11	3.2434	0.0065	1.0000
802.11n20	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11n40	10.00	10.0000	5.11	3.2434	0.0065	1.0000
802.11ac20	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ac40	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ac80	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ax20	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ax40	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ax80	9.00	7.9433	5.11	3.2434	0.0051	1.0000

5.3G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	14.00	25.1189	5.11	3.2434	0.0162	1.0000
802.11n20	12.00	15.8489	5.11	3.2434	0.0102	1.0000
802.11n40	12.00	15.8489	5.11	3.2434	0.0102	1.0000
802.11ac20	12.00	15.8489	5.11	3.2434	0.0102	1.0000
802.11ac40	12.00	15.8489	5.11	3.2434	0.0102	1.0000
802.11ac80	11.00	12.5893	5.11	3.2434	0.0081	1.0000
802.11ax20	11.00	12.5893	5.11	3.2434	0.0081	1.0000
802.11ax40	11.00	12.5893	5.11	3.2434	0.0081	1.0000
802.11ax80	11.00	12.5893	5.11	3.2434	0.0081	1.0000

5.7G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11n20	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11n40	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ac20	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ac40	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ac80	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ax20	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ax40	9.00	7.9433	5.11	3.2434	0.0051	1.0000
802.11ax80	9.00	7.9433	5.11	3.2434	0.0051	1.0000

5.8G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11a	15.00	31.6228	5.11	3.2434	0.0204	1.0000
802.11n20	15.00	31.6228	5.11	3.2434	0.0204	1.0000
802.11n40	14.00	25.1189	5.11	3.2434	0.0162	1.0000
802.11ac20	15.00	31.6228	5.11	3.2434	0.0204	1.0000
802.11ac40	14.00	25.1189	5.11	3.2434	0.0162	1.0000
802.11ac80	14.00	25.1189	5.11	3.2434	0.0162	1.0000
802.11ax20	15.00	31.6228	5.11	3.2434	0.0204	1.0000
802.11ax40	14.00	25.1189	5.11	3.2434	0.0162	1.0000
802.11ax80	13.00	19.9526	5.11	3.2434	0.0129	1.0000

Remark:

1. Output power including tune-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

6.2 Simultaneous Transmission MPE

WLAN and BT share same modular difference antenna, WLAN and BT can support simultaneously transmission.

According to KDB447498 D01 General RF Exposure Guidance v06 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;
 $\sum$ of MPE ratios ≤ 1.0

6.2.1 Summary simultaneous transmission results

Maximum Simultaneous transmission MPE Ratios for **BT,2.4GWLAN**

Maximum MPE ratio BT	Maximum MPE ratio 2.4GWLAN	$\sum$ MPE ratios	Limit	Results
0.0059	0.0471	0.053	1.0	PASS

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB447498 D01 General RF Exposure Guidance v06, No SAR is required.

.....**End of Report**.....