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FCC ID	RF Exposure evaluation					
Compiled by (position+printed name+signature).:: File administrators Yilia Zhong Supervised by (position+printed name+signature).:: Test Engineer Jenny Zeng Approved by (position+printed name+signature).:: Manager Simon Hu Date of issue	Report Reference No	GTS20210709009-1-8				
(position+printed name+signature): File administrators Yilia Zhong Yilia Zhang Supervised by (position+printed name+signature): Test Engineer Jenny Zeng Approved by (position+printed name+signature): Manager Simon Hu Date of issue Aug. 18, 2021 Representative Laboratory Name:: Shenzhen Global Test Service Co.,Ltd. Address. :: Stanzhen Global Test Service Co.,Ltd. Address. :: Garden, No. 38, 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 :: #TF Originator. : Shenzhen Global Test Service Co.,Ltd. Marker TRF Dated 2014-12 Shenzhen Global Test Service Co.,Ltd. Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material.	FCC ID:	2AYD5-I20D01				
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Representative Laboratory Name: 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 Applicant's name. Imin Technology Pte Ltd Address. 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943 Test specification. * 47CFR §1.1310 * Standard. * 47CFR §1.1310 Standard. * 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. 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. Desktop POS Trade Mark IMin Manufacturer Imin Technology Pte Ltd Modulation Type. IEEE 802.11b/802.11g/802.11n Operation Frequency From 2412MHz to 2462MHz Hardware Version N/A Rating. DC 24V by adapter	Approved by (position+printed name+signature):	Manager Simon Hu				
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Model/Type referenceI20D01Listed ModelsN/AModulation TypeIEEE 802.11b/802.11g/802.11nOperation FrequencyFrom 2412MHz to 2462MHzHardware VersionN/ASoftware VersionN/ARatingDC 24V by adapter	Trade Mark	iMin				
Listed Models	Manufacturer	Imin Technology Pte Ltd				
Modulation Type:IEEE 802.11b/802.11g/802.11nOperation Frequency:From 2412MHz to 2462MHzHardware Version:N/ASoftware Version:N/ARating:DC 24V by adapter	Model/Type reference:	I20D01				
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Hardware Version	Modulation Type	IEEE 802.11b/802.11g/802.11n				
Software Version N/A Rating DC 24V by adapter	Operation Frequency	From 2412MHz to 2462MHz				
Rating DC 24V by adapter	Hardware Version:	N/A				
	Software Version	N/A				
	Rating	DC 24V by adapter				
Result PASS	Result	PASS				

TEST REPORT

	Test Report No. :	GTS20210709009-1-8		Aug. 18, 2021
				Date of issue
Equ	ipment under Test	:	Desktop POS	
Мо	del /Type	:	I20D01	
List	ed model	:	N/A	
Ар	olicant	:	Imin Technology Pte Ltd	
Ado	Iress	:	11 Bishan Street 21, #03-05 E	Bosch Building, Singapore 573943
Ма	nufacturer	:	Imin Technology Pte Ltd	
Ado	Iress	:	11 Bishan Street 21, #03-05 E	Bosch Building, Singapore 573943

Test Result:	PASS
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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.

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1. <u>SUMMARY</u>

1.1 EUT configuration

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

• - supplied by the manufacturer

\odot - supplied by the la

1	Length (m) :	/
	Shield :	1
	Detachable :	1

1.2 Product Description

Product Name	Desktop POS		
Trade Mark	iMin		
Model/Type reference	I20D01		
List Models	N/A		
Model Declaration	N/A		
Power supply:	DC 24V by adapter		
Sample ID	GTS20210709009-1-1#		
Bluetooth			
Operation frequency	2402-2480MHz		
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, π/4-DQPSK, 8DPSK for Bluetooth (DSS)		
	GFSK for Bluetooth (DTS)		
WIFI(2.4G Band)			
Frequency Range	2412MHz ~ 2462MHz		
Channel Spacing	5MHz		
Channel Number	11 Channel for 20MHz bandwidth(2412~2462MHz)		
Modulation Type	802.11b: DSSS; 802.11g/n: OFDM		
Antenna Description	Description Internal Antenna; 1.98dBi(Max.) for 2.4G Band		

2. <u>TEST ENVIRONMENT</u>

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 CN1234.

FCC Registered Test Site Number is165725.

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)

(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 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 KDB447498D01 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 \leq 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	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm ²)	(minute)
	Limits for (Occupational/Controlled	d 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	/	1	f/300	6
1500 – 100,000	/	1	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/cm²)	Averaging Time (minute)
	Limits for (Occupational/Controlled	d 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	/	1	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/4πR²

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 soure-baed 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 =20cm, as well as the gain of the used antenna is 1.98dBi for 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

I20D01 can only use antenna certificated as follows provided by manufacturer;

Internal	Antenna Identification	Antenna type and antenna number	Operate frequency	Maximum antenna
Identification	in Internal photos		band	gain
Antenna 0	WLAN&BT ANT	Internal antenna	2.4– 2.5 GHz	1.98dBi(Max.)

4. Conducted Power Results

2.4GWLAN					
Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)		
	01	2412	20.71		
802.11b	06	2437	21.53		
	11	2462	21.91		
	01	2412	20.63		
802.11g	06	2437	21.41		
	11	2462	21.89		
802.11n(HT20)	01	2412	19.46		
	06	2437	20.20		
	11	2462	20.44		

Bluetooth

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
	0	2402	10.23
GFSK	39	2441	10.57
	78	2480	10.69
	0	2402	10.41
π/4-DQPSK	39	2441	10.52
	78	2480	10.37
	0	2402	9.58
8DPSK	39	2441	9.23
	78	2480	10.44
GFSK(BT LE)	0	2402	2.00
	19	2440	3.34
	39	2480	3.50

5. Manufacturing Tolerance

2.4GWLAN							
	IEEE 802.11b (Peak)						
Channel	Channel 01	Channel 06	Channel 11				
Target (dBm)	20.0	21.0	21.0				
Tolerance ±(dB)	1.0	1.0	1.0				
	IEEE 802.11g (Peak)						
Channel	Channel 01	Channel 06	Channel 11				
Target (dBm)	Target (dBm) 20.0 21		21.0				
Tolerance ±(dB)	1.0	1.0	1.0				
	IEEE 802.11n HT20 (Peak)						
Channel	Channel 01	Channel 06	Channel 11				
Target (dBm)	19.0	20.0	20.0				
Tolerance ±(dB)	1.0	1.0	1.0				

Bluetooth							
GFSK (Peak)							
Channel	Channel 0	Channel 39	Channel 78				
Target (dBm)	10.0	10.0	10.0				
Tolerance ±(dB)	1.0	1.0	1.0				
	π/4-DQPS	SK(Peak)					
Channel	Channel 0	Channel 19	Channel 39				
Target (dBm)	10.0	10.0	10.0				
Tolerance ±(dB)	1.0	1.0	1.0				
	8DPSK (Peak)						
Channel	Channel 0	Channel 19	Channel 39				
Target (dBm)) 9.0 9.0		10.0				
Tolerance ±(dB)	1.0	1.0	1.0				
GFSK BT LE (Peak)							
Channel	Channel 0	Channel 19	Channel 39				
Target (dBm)	2.0	2.0 3.0 3.0					
Tolerance ±(dB)	1.0	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 =20cm, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

2.4GWLAN

	Output power		Antenna	Antenna	MPF	MPE
Modulation Type	dBm	mW	Gain (dBi)	Gain (linear)	(mW/cm ²)	Limits (mW/cm²)
802.11b	22.0	158.4893	1.98	1.5776	0.0497	1.0000
802.11g	22.0	158.4893	1.98	1.5776	0.0497	1.0000
802.11n(HT20)	21.0	125.8925	1.98	1.5776	0.0395	1.0000

			BT			
Modulation Type	Output power		Antenna	Antenna	MPE (mW/cm²)	MPE
	dBm mW	Gain	Gain	Limits		
		mvv	(dBi)	(linear)	(11100/0111-)	(mW/cm ²)
GFSK	11.0	12.5893	1.98	1.5776	0.0040	1.0000
π /4-DQPSK	11.0	12.5893	1.98	1.5776	0.0040	1.0000
8DPSK	11.0	12.5893	1.98	1.5776	0.0040	1.0000
GFSK(BT LE)	4.0	2.5119	1.98	1.5776	0.0008	1.0000

Remark:

1. Output power including tune-up tolerance;

2. MPE evaluate distance is 20cm from user manual provide by manufacturer;

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 KDB 447498 v06, No SAR is required.

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