

**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.** : **GTS20230704026-1-43****FCC ID.** : **2AYD5-I23D02**

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Date of issue : Sep.06, 2023

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 specificationStandard..... : 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.**

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Test item description : **POS Device**

Trade Mark



Manufacturer : Imin Technology Pte Ltd

Model/Type reference : I23D02

Listed Models : N/A

Hardware Version : N/A

Software Version..... : N/A

Rating..... : DC 24V/1.5A by adapter

Result : **PASS**

TEST REPORT

Test Report No. : GTS20230704026-1-43	Sep.06, 2023
	Date of issue

Equipment under Test : POS Device

Model /Type : I23D02

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
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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. 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

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

1.2 Product Description

Product Name:	POS Device
Trade Mark:	
Model/Type reference:	I23D02
List Model:	N/A
Model Declaration	N/A
Power supply:	DC 24V/1.5A by adapter
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20230704026-1-S0001-3# GTS20230704026-1-S0001-4#(Version A) GTS20230704026-1-S0001-5#(Version B)
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)
2.4GWLAN	
WLAN Operation frequency	IEEE 802.11b:2412-2462MHz IEEE 802.11g:2412-2462MHz IEEE 802.11n HT20:2412-2462MHz IEEE 802.11ax HE20:2412-2462MHz
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 802.11ax HE20: OFDMA (1024QAM,256QAM,64QAM,16QAM, QPSK,BPSK)
Channel number:	11 Channel for IEEE 802.11b/g/n/ax (HT20)
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,

	<p>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) IEEE 802.11ac VHT80: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE80: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)</p>
Channel number:	<p>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) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5290MHz) 2 Channels for 80MHz bandwidth(5530-5610MHz) 1 channels for 80MHz bandwidth(5775MHz)</p>
Antenna Description	<p>Three Internal antenna respectively.WLAN support 2*2MIMO technology. ANT0 used for WIFI TX/RX, 3.13 dBi(Max.) for 2.4G Band and 1.76dBi(Max.) for 5G Band ANT1 used for WIFI TX/RX, 3.13 dBi(Max.) for 2.4G Band and 1.76dBi (Max.) for 5G Band ANT2 used for BT TX/RX, 3.66 dBi(Max.) for 2.4G Band</p>
RFID(13.56MHz) (Optional)	
Frequency Range	13.56MHz
Channel Number	1
Modulation Type	ASK
Antenna Description	Internal Antenna, 0dBi (Max.)
<p>Remark:The I23D02 model has 2 versions; Version A: One large display and one small display Version B: Only one large display</p>	

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 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)

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

$$S = \frac{PG}{4\pi R^2}$$

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 3.66dBi & 3.13dBi & 1.76dBi 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

I23D02 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 2	BT ANT2	Internal antenna	2.4 – 2.5 GHz	3.66dBi(Max.) for 2.4G band
Antenna 0	WLAN ANT0	Internal antenna	2.4 – 2.5 GHz 5.0 – 6.0 GHz	3.13dBi(Max.) for 2.4G band 1.76dBi(Max.) for 5G band
Antenna 1	WLAN ANT1	Internal antenna	2.4 – 2.5 GHz 5.0 – 6.0 GHz	3.13dBi(Max.) for 2.4G band 1.76dBi(Max.) for 5G band
Antenna 3	NFC ANT	Internal antennas	13.56 MHz	0dBi

4. Conducted Power Results

Antenna 3:

NFC

Mode	Channel	Frequency (MHz)	Field strength of fundamental (dBuV/m) @3m
ASK	1	13.56	66.16

Antenna 2:

Bluetooth

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
GFSK	0	2402	7.73
	39	2441	8.83
	78	2480	10.33
$\pi/4$ DQPSK	0	2402	7.72
	39	2441	8.78
	78	2480	9.61
8DPSK	0	2402	7.77
	39	2440	8.93
	78	2480	9.67
GFSK(BT LE)	0	2402	-3.92
	19	2440	-1.72
	39	2480	-1.7

Antenna 0:

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	20.27
	06	2437	21.01
	11	2462	21.45
802.11g	01	2412	23.55
	06	2437	22.45
	11	2462	19.83
802.11n(HT20)	01	2412	18.15
	06	2437	18.87
	11	2462	19.21
802.11ax(HE20)	01	2412	23.05
	06	2437	21.91
	11	2462	22.20

5.2GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	11.87
	40	5200	12.92
	48	5240	13.49
802.11n20	36	5180	11.02
	40	5200	10.98
	48	5240	11.75
802.11n40	38	5190	9.26
	46	5230	10.92
802.11ac20	36	5180	10.93
	40	5200	11.11
	48	5240	11.92
802.11ac40	38	5190	9.76
	46	5230	10.32
802.11ac80	42	5210	10.80
802.11ax20	36	5180	9.81
	40	5200	9.23
	48	5240	10.02
802.11ax40	38	5190	9.47
	46	5230	8.36
802.11ax80	42	5210	9.28

5.3GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	52	5260	9.83
	56	5280	9.45
	64	5320	9.88
802.11n20	52	5260	8.21
	56	5280	8.06
	64	5320	8.41
802.11n40	54	5270	8.64
	58	5310	9.00
802.11ac20	52	5260	9.80
	56	5280	9.54
	64	5320	10.51
802.11ac40	54	5270	8.86
	58	5310	9.24
802.11ac80	62	5290	7.85
802.11ax20	52	5260	9.74
	56	5280	9.40
	64	5320	10.83
802.11ax40	54	5270	9.00
	58	5310	9.15
802.11ax80	62	5290	7.34

5.7G WLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	100	5500	9.98
	120	5600	7.57
	140	5700	7.74
802.11n20	100	5500	8.82
	120	5600	6.37
	140	5700	8.29
802.11n40	102	5510	9.00
	118	5590	7.87
	134	5670	7.40
802.11ac20	100	5500	11.00
	120	5600	8.27
	140	5700	8.57
802.11ac40	102	5510	9.07
	118	5590	7.00
	134	5670	7.49
802.11ac80	106	5530	8.31
	122	5610	8.53
802.11ax20	100	5500	10.02
	120	5600	8.40
	140	5700	8.39
802.11ax40	102	5510	8.85
	118	5590	6.98
	134	5670	8.92
802.11ax80	106	5530	11.18
	122	5610	9.77

5.8G WLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	12.23
	157	5785	12.70
	165	5825	13.83
802.11n20	149	5745	10.76
	157	5785	11.20
	165	5825	12.60
802.11n40	151	5755	9.22
	159	5795	9.41
802.11ac20	149	5745	11.30
	157	5785	12.18
	165	5825	13.26
802.11ac40	151	5755	9.82
	159	5795	10.20
802.11ac80	155	5775	8.79
802.11ax20	149	5745	12.30
	157	5785	12.92
	165	5825	13.56
802.11ax40	151	5755	10.94
	159	5795	11.14
802.11ax80	155	5775	9.70

Antenna 1:

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	17.70
	06	2437	18.26
	11	2462	18.61
802.11g	01	2412	20.84
	06	2437	21.56
	11	2462	21.81
802.11n(HT20)	01	2412	20.22
	06	2437	20.93
	11	2462	21.29
802.11ax(HE20)	01	2412	20.26
	06	2437	20.86
	11	2462	21.29

5.2GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	9.21
	40	5200	9.98
	48	5240	9.92
802.11n20	36	5180	8.05
	40	5200	8.27
	48	5240	8.23
802.11n40	38	5190	7.17
	46	5230	11.53
802.11ac20	36	5180	12.25
	40	5200	11.87
	48	5240	12.43
802.11ac40	38	5190	11.03
	46	5230	11.45
802.11ac80	42	5210	9.97
802.11ax20	36	5180	11.79
	40	5200	11.86
	48	5240	12.55
802.11ax40	38	5190	10.82
	46	5230	11.72
802.11ax80	42	5210	9.29

5.3GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	52	5260	12.76
	56	5280	12.54
	64	5320	12.65
802.11n20	52	5260	11.02
	56	5280	10.83
	64	5320	11.70
802.11n40	54	5270	10.06
	58	5310	10.76
802.11ac20	52	5260	10.95
	56	5280	10.99
	64	5320	11.40
802.11ac40	54	5270	10.25
	58	5310	10.54
802.11ac80	62	5290	10.93
802.11ax20	52	5260	11.74
	56	5280	11.79
	64	5320	11.65
802.11ax40	54	5270	11.32
	58	5310	10.94
802.11ax80	62	5290	9.44

5.7GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	100	5500	11.63
	120	5600	15.90
	140	5700	13.76
802.11n20	100	5500	10.34
	120	5600	14.11
	140	5700	12.36
802.11n40	102	5510	9.27
	118	5590	10.71
	134	5670	13.51
802.11ac20	100	5500	12.41
	120	5600	12.02
	140	5700	12.17
802.11ac40	102	5510	11.01
	118	5590	10.85
	134	5670	13.69
802.11ac80	106	5530	8.99
	122	5610	8.70
802.11ax20	100	5500	13.13
	120	5600	11.50
	140	5700	12.37
802.11ax40	102	5510	12.08
	118	5590	11.11
	134	5670	13.91
802.11ax80	106	5530	10.05
	122	5610	9.17

5.8GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	12.12
	157	5785	12.90
	165	5825	13.07
802.11n20	149	5745	10.82
	157	5785	11.46
	165	5825	11.80
802.11n40	151	5755	9.87
	159	5795	10.39
802.11ac20	149	5745	10.48
	157	5785	11.53
	165	5825	11.71
802.11ac40	151	5755	10.15
	159	5795	10.40
802.11ac80	155	5775	9.50
802.11ax20	149	5745	11.50
	157	5785	12.06
	165	5825	12.19
802.11ax40	151	5755	10.71
	159	5795	10.89
802.11ax80	155	5775	9.77

5. Manufacturing Tolerance

Antenna 2:

Bluetooth

GFSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	7.0	8.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
π/4DQPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	7.0	8.0	9.0
Tolerance ±(dB)	1.0	1.0	1.0
8DPSK (Peak)			
Channel	Channel 0	Channel 39	Channel 78
Target (dBm)	7.0	8.0	9.0
Tolerance ±(dB)	1.0	1.0	1.0
GFSK BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-3.0	-1.0	-1.0
Tolerance ±(dB)	1.0	1.0	1.0

Antenna 0:

2.4GWLAN

IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	20.00	21.00	21.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	23.00	22.00	19.00
Tolerance ±(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	19.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	23.00	21.00	22.00
Tolerance ±(dB)	1.0	1.0	1.0

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	12.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	10.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	9.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	10.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	9.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	10.0	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	9.0	9.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	9.0	8.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	9.0	/	/
Tolerance ±(dB)	1.0	/	/

5.3GWLAN

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	9.0	9.0	9.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	8.0	8.0	8.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	8.0	9.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	9.0	9.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	8.0	9.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	7.0	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	9.0	9.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	9.0	9.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	7.0	/	/
Tolerance ±(dB)	1.0	/	/

5.7GWLAN

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	9.0	7.0	7.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	8.0	6.0	8.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	9.0	7.0	7.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	11.0	8.0	8.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	9.0	7.0	7.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	8.0	8.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	10.0	8.0	8.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	8.0	6.0	8.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	11.0	9.0	/
Tolerance ±(dB)	1.0	1.0	/

5.8G WLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.0	11.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	9.0	9.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	12.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	9.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	8.0	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	10.0	11.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	9.0	/	/
Tolerance ±(dB)	1.0	/	/

Antenna 1:

2.4G WLAN

IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	17.00	18.00	18.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	20.00	21.00	21.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	20.00	20.00	21.00
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	20.00	20.00	21.00
Tolerance ±(dB)	1.0	1.0	1.0

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	9.0	9.0	9.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	8.0	8.0	8.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	7.0	11.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.0	11.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	11.0	11.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	9.0	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	10.0	11.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	9.0	/	/
Tolerance ±(dB)	1.0	/	/

5.3G WLAN

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	11.0	10.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	10.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	10.0	10.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	10.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	10.0	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 56	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 54	Channel 58	/
Target (dBm)	11.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 62	/	/
Target (dBm)	9.0	/	/
Tolerance ±(dB)	1.0	/	/

5.7GWLAN

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	11.0	15.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	10.0	14.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	9.0	10.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	11.0	10.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	8.0	8.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 120	Channel 140
Target (dBm)	13.0	11.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 118	Channel 134
Target (dBm)	12.0	11.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE80 (Average)			
Channel	Channel 106	Channel 122	/
Target (dBm)	10.0	9.0	/
Tolerance ±(dB)	1.0	1.0	/

5.8GWLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	9.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	10.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	10.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	9.0	/	/
Tolerance ±(dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	10.0	10.0	/
Tolerance ±(dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	9.0	/	/
Tolerance ±(dB)	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.

Antenna 3:

NFC

Mode	Channel	Frequency (MHz)	Field strength of fundamental @ 3m		Field strength of fundamental @ 0.2m		Electric Field Strength (V/m)
			(dBuV/m)	V/m	(dBuV/m)	V/m	
ASK	1	13.56	66.16	0.0020	113.20	0.4571	135.84

Antenna 2:

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	3.66	2.3227	0.0058	1.0000
$\pi/4$ DQPSK	10.00	10.0000	3.66	2.3227	0.0046	1.0000
8DPSK	10.00	10.0000	3.66	2.3227	0.0046	1.0000
GFSK(BT LE)	0	1.0000	3.66	2.3227	0.0005	1.0000

Antenna 0:

2.4G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
802.11b	22.00	158.4893	3.13	2.0559	0.0648	1.0000
802.11g	24.00	251.1886	3.13	2.0559	0.1027	1.0000
802.11n(HT20)	20.00	100.0000	3.13	2.0559	0.0409	1.0000
802.11ax(HE20)	24.00	251.1886	3.13	2.0559	0.1027	1.0000

5.2G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
802.11a	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11n20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11n40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ac40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac80	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ax20	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ax40	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ax80	10.00	10.0000	1.76	1.4997	0.0030	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	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11n20	9.00	7.9433	1.76	1.4997	0.0024	1.0000
802.11n40	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ac20	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac40	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ac80	8.00	6.3096	1.76	1.4997	0.0019	1.0000
802.11ax20	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ax40	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ax80	8.00	6.3096	1.76	1.4997	0.0019	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	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11n20	9.00	7.9433	1.76	1.4997	0.0024	1.0000
802.11n40	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ac20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ac40	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ac80	9.00	7.9433	1.76	1.4997	0.0024	1.0000
802.11ax20	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ax40	9.00	7.9433	1.76	1.4997	0.0024	1.0000
802.11ax80	10.00	10.0000	1.76	1.4997	0.0030	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	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11n20	13.00	19.9526	1.76	1.4997	0.0060	1.0000
802.11n40	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ac20	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11ac40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac80	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ax20	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11ax40	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ax80	10.00	10.0000	1.76	1.4997	0.0030	1.0000

Antenna 1:

2.4G WLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11b	19.00	79.4328	3.13	2.0559	0.0325	1.0000
802.11g	22.00	158.4893	3.13	2.0559	0.0648	1.0000
802.11n(HT20)	22.00	158.4893	3.13	2.0559	0.0648	1.0000
802.11ax(HE20)	22.00	158.4893	3.13	2.0559	0.0648	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	1.76	1.4997	0.0030	1.0000
802.11n20	9.00	7.9433	1.76	1.4997	0.0024	1.0000
802.11n40	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ac20	13.00	19.9526	1.76	1.4997	0.0060	1.0000
802.11ac40	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ac80	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ax20	13.00	19.9526	1.76	1.4997	0.0060	1.0000
802.11ax40	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ax80	10.00	10.0000	1.76	1.4997	0.0030	1.0000

5.3GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	13.00	19.9526	1.76	1.4997	0.0060	1.0000
802.11n20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11n40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ac40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac80	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ax20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ax40	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ax80	10.00	10.0000	1.76	1.4997	0.0030	1.0000

5.7GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MP20 Limits (mW/cm ²)
	dBm	mW				
802.11a	16.00	39.8107	1.76	1.4997	0.0119	1.0000
802.11n20	15.00	31.6228	1.76	1.4997	0.0094	1.0000
802.11n40	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11ac20	13.00	19.9526	1.76	1.4997	0.0060	1.0000
802.11ac40	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11ac80	9.00	7.9433	1.76	1.4997	0.0024	1.0000
802.11ax20	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11ax40	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11ax80	11.00	12.5893	1.76	1.4997	0.0038	1.0000

5.8GWLAN

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
802.11a	14.00	25.1189	1.76	1.4997	0.0075	1.0000
802.11n20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11n40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac20	12.00	15.8489	1.76	1.4997	0.0047	1.0000
802.11ac40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ac80	10.00	10.0000	1.76	1.4997	0.0030	1.0000
802.11ax20	13.00	19.9526	1.76	1.4997	0.0060	1.0000
802.11ax40	11.00	12.5893	1.76	1.4997	0.0038	1.0000
802.11ax80	10.00	10.0000	1.76	1.4997	0.0030	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

The sample support one Bluetooth & WLAN modular and one Bluetooth antenna, and two WLAN antennas, WLAN support MIMO, Need consider simultaneous transmission ;

The sample supports 2T2R MIMO technology for WLAN.

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

8.2.1 Summary simultaneous transmission information

Modulation Type	Work Frequency Band	Transmit Antenna		Antenna 0, Antenna 1 Synchronization transmits
		Antenna 0	Antenna 1	
802.11b	2.4GHz	Yes	Yes	No
802.11g	2.4GHz	Yes	Yes	No
802.11n(HT20)	2.4GHz	Yes	Yes	Yes
802.11x(HE20)	2.4GHz	Yes	Yes	Yes

Modulation Type	Work Frequency Band	Transmit Antenna		Antenna 0, Antenna 1 Synchronization transmits
		Antenna 0	Antenna 1	
802.11a	5GHz	Yes	Yes	No
802.11n20	5GHz	Yes	Yes	Yes
802.11n40	5GHz	Yes	Yes	Yes
802.11ac20	5GHz	Yes	Yes	Yes
802.11ac40	5GHz	Yes	Yes	Yes
802.11ac80	5GHz	Yes	Yes	Yes
802.11ax20	5GHz	Yes	Yes	Yes
802.11ax40	5GHz	Yes	Yes	Yes
802.11ax80	5GHz	Yes	Yes	Yes

Modulation Type	Work Frequency Band	Transmit Antenna			Antenna 0, Antenna 1, Antenna 2 Synchronization transmits
		Antenna 0	Antenna 1	Antenna 2	
BT	2.4GHz	Yes	No	No	Yes
WLAN	2.4GHz	No	Yes	Yes	Yes
WLAN	5GHz	No	Yes	Yes	Yes
		Antenna 0	Antenna 1	Antenna 2	2.4GHzWLAN + 5GHzWLAN Synchronization transmits
WLAN	2.4GHz	No	Yes	Yes	No
WLAN	5GHz	No	Yes	Yes	No

8.2.2 Summary simultaneous transmission results

Maximum Simultaneous transmission MPE Ratios for 2.4GWLAN(ANT 0), 2.4GWLAN(ANT 1),BT,NFC.

Maximum MPE ratio 2.4GWLAN (ANT 0)	Maximum MPE ratio 2.4GWLAN (ANT 1)	Maximum MPE ratio BT	Maximum MPE ratio NFC	\sum MPE ratios	Limit	Results
0.1027	0.0648	0.0058	0.0034	0.1767	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.....