

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

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community,
Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

RF Exposure evaluation**Report Reference No. : GTS20260616001-4-03****FCC ID. : 2BCMP-AX10**

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Date of issue : Jul.02, 2026

Representative Laboratory Name

..... :

Shenzhen Global Test Service Co.,Ltd.

Address

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88
Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan
District, Shenzhen City, Guangdong, China

Applicant's name..... :**Ausek Limited**

Address

No.4 Building, Jianjin Business Park, Donghuan second Road,
Longhua District, Shenzhen, China

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

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Test item description**WIFI REPEATER**

Trade Mark

N/A

Manufacturer

Ausek Limited

Model/Type reference

AX10

Listed Models

N/A

Hardware Version

N/A

Software Version

N/A

Rating

AC 100-240V, 50/60Hz, 1A

Result

PASS

TEST REPORT

Test Report No. :	GTS20260616001-4-03	Jul.02, 2026
		Date of issue

Equipment under Test : WIFI REPEATER

Model /Type : AX10

Listed model : N/A

Applicant : **Ausek Limited**

Address : No.4 Building, Jianjin Business Park, Donghuan second Road,
Longhua District, Shenzhen, China

Manufacturer : **Ausek Limited**

Address : No.4 Building, Jianjin Business Park, Donghuan second Road,
Longhua District, Shenzhen, China

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

○	/	M/N:	/
		Manufacturer:	/

1.2 Product Description

Product Name:	WIFI REPEATER
Trade Mark:	N/A
Model/Type reference:	AX10
List Model:	N/A
Model Declaration	N/A
Power supply:	AC 100-240V, 50/60Hz, 1A
Hardware Version	N/A
Software Version	N/A
Sample ID	GTS20260616001-4-S001-1# GTS20260616001-4-S001-2#
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
Antenna Description	Two external antennas respectively. WLAN not support MIMO technology. ANT1 used for WIFI TX/RX, 5.21dBi(Max.) for 2.4G Band ANT2 used for WIFI TX/RX, 5.21dBi(Max.) for 2.4G Band
WIFI(5.2G/5.8G Band)	
WLAN Operation frequency	5180-5240MHz/ 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) IEEE 802.11ac VHT80: OFDM (256QAM,64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ax HE80: OFDMA (1024QAM,256QAM,64QAM, 16QAM, QPSK,BPSK)
Channel number:	4 Channels for 20MHz bandwidth(5180-5240MHz) 5 channels for 20MHz bandwidth(5745-5825MHz) 2 channels for 40MHz bandwidth(5190~5230MHz) 2 channels for 40MHz bandwidth(5755~5795MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 80MHz bandwidth(5775MHz)
Antenna Description	Three external antennas respectively. WLAN not support MIMO technology. ANT3 used for WIFI TX/RX, 5.06dBi(Max.) for 5G Band ANT4 used for WIFI TX/RX, 5.06dBi(Max.) for 5G Band ANT5 used for WIFI TX/RX, 5.06dBi(Max.) for 5G Band

2. TEST ENVIRONMENT

2.1 Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

Room No. 101, Building 1, and Room No. 101, Building 3, No. 88 Jinkang Road, Jinsha Community, Kengzi Sub-district, Pingshan District, Shenzhen City, Guangdong, China

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's maximum duty cycle transmission based on the appendix, 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 5.21dBi&5.06dBi 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

AX10 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
Antenna1	WLAN ANT1	External antenna	2.4 – 2.5 GHz	5.21dBi(Max.) for 2.4G band
Antenna2	WLAN ANT2	External antenna	2.4 – 2.5 GHz	5.21dBi(Max.) for 2.4G band
Antenna3	WLAN ANT3	External antenna	5.0 – 6.0 GHz	5.06dBi(Max.) for 5G band
Antenna4	WLAN ANT4	External antenna	5.0 – 6.0 GHz	5.06dBi(Max.) for 5G band
Antenna5	WLAN ANT5	External antenna	5.0 – 6.0 GHz	5.06dBi(Max.) for 5G band

4. Conducted Power Results

Antenna 1:

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	12.93
	06	2437	14.02
	11	2462	14.68
802.11g	01	2412	15.19
	06	2437	16.22
	11	2462	16.81
802.11n(HT20)	01	2412	13.25
	06	2437	14.48
	11	2462	15.19
802.11n(HT40)	03	2422	13.47
	06	2437	14.40
	09	2452	14.06
802.11ax(HE20)	01	2412	13.53
	06	2437	14.96
	11	2462	15.86
802.11ax(HE40)	03	2422	14.06
	06	2437	15.07
	09	2452	14.61

Antenna 2:

2.4GWLAN

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
802.11b	01	2412	15.12
	06	2437	14.16
	11	2462	14.78
802.11g	01	2412	16.30
	06	2437	16.49
	11	2462	16.87
802.11n(HT20)	01	2412	14.67
	06	2437	14.93
	11	2462	15.38
802.11n(HT40)	03	2422	15.04
	06	2437	15.00
	09	2452	14.83
802.11ax(HE20)	01	2412	15.27
	06	2437	15.53
	11	2462	16.17
802.11ax(HE40)	03	2422	15.77
	06	2437	15.68
	09	2452	15.50

Antenna 3:**5.2GWLAN**

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	10.68
	40	5200	10.89
	48	5240	11.41
802.11n20	36	5180	11.06
	40	5200	11.43
	48	5240	11.77
802.11n40	38	5190	11.20
	46	5230	11.56
802.11ac20	36	5180	11.03
	40	5200	11.28
	48	5240	12.49
802.11ac40	38	5190	11.82
	46	5230	12.13
802.11ac80	42	5210	11.31
802.11ax20	36	5180	11.80
	40	5200	11.56
	48	5240	12.02
802.11ax40	38	5190	11.25
	46	5230	11.98
802.11ax80	42	5210	11.11

5.8GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	14.69
	157	5785	15.66
	165	5825	15.75
802.11n20	149	5745	13.16
	157	5785	14.01
	165	5825	14.03
802.11n40	151	5755	13.47
	159	5795	13.82
802.11ac20	149	5745	13.05
	157	5785	13.99
	165	5825	14.13
802.11ac40	151	5755	13.41
	159	5795	13.83
802.11ac80	155	5775	13.01
802.11ax20	149	5745	13.68
	157	5785	14.34
	165	5825	14.97
802.11ax40	151	5755	14.03
	159	5795	14.13
802.11ax80	155	5775	13.81

Antenna 4:**5.2GWLAN**

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	16.22
	40	5200	16.66
	48	5240	17.55
802.11n20	36	5180	15.12
	40	5200	15.14
	48	5240	15.96
802.11n40	38	5190	15.26
	46	5230	15.67
802.11ac20	36	5180	15.26
	40	5200	15.79
	48	5240	16.28
802.11ac40	38	5190	15.50
	46	5230	15.98
802.11ac80	42	5210	14.57
802.11ax20	36	5180	15.28
	40	5200	15.72
	48	5240	16.39
802.11ax40	38	5190	15.70
	46	5230	16.10
802.11ax80	42	5210	15.04

5.8GWLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	15.66
	157	5785	16.04
	165	5825	16.60
802.11n20	149	5745	14.01
	157	5785	14.71
	165	5825	15.32
802.11n40	151	5755	13.99
	159	5795	14.63
802.11ac20	149	5745	14.04
	157	5785	14.92
	165	5825	15.41
802.11ac40	151	5755	13.86
	159	5795	14.68
802.11ac80	155	5775	14.12
802.11ax20	149	5745	13.78
	157	5785	14.26
	165	5825	14.96
802.11ax40	151	5755	13.52
	159	5795	13.91
802.11ax80	155	5775	13.30

Antenna 5:**5.2G WLAN**

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	36	5180	13.48
	40	5200	13.74
	48	5240	14.03
802.11n20	36	5180	11.82
	40	5200	12.22
	48	5240	12.58
802.11n40	38	5190	11.94
	46	5230	12.42
802.11ac20	36	5180	15.23
	40	5200	15.08
	48	5240	13.06
802.11ac40	38	5190	12.50
	46	5230	12.91
802.11ac80	42	5210	11.92
802.11ax20	36	5180	12.60
	40	5200	12.94
	48	5240	13.27
802.11ax40	38	5190	12.80
	46	5230	13.15
802.11ax80	42	5210	12.42

5.8G WLAN

Mode	Channel	Frequency (MHz)	Average Conducted Output Power (dBm)
802.11a	149	5745	13.12
	157	5785	13.73
	165	5825	13.98
802.11n20	149	5745	11.40
	157	5785	12.09
	165	5825	12.51
802.11n40	151	5755	11.59
	159	5795	12.13
802.11ac20	149	5745	11.58
	157	5785	12.27
	165	5825	12.79
802.11ac40	151	5755	11.61
	159	5795	12.31
802.11ac80	155	5775	12.00
802.11ax20	149	5745	12.13
	157	5785	13.45
	165	5825	13.56
802.11ax40	151	5755	12.21
	159	5795	12.98
802.11ax80	155	5775	12.18

5. Manufacturing Tolerance

Antenna 1:

2.4GWLAN

IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	12.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	15.00	16.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	13.00	14.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	13.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	13.00	14.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	14.00	15.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

Antenna 2:

2.4GWLAN

IEEE 802.11b (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	15.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	16.00	16.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	14.00	14.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	15.00	15.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Peak)			
Channel	Channel 01	Channel 06	Channel 11
Target (dBm)	15.00	15.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Peak)			
Channel	Channel 03	Channel 06	Channel 09
Target (dBm)	15.00	15.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0

Antenna 3:

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	10.00	10.00	11.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.00	11.00	11.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	11.00	11.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.00	11.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	11.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	11.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.00	11.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	11.00	11.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	11.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/

5.8GWLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	14.00	15.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	13.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.00	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)	13.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	13.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	14.00	14.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	13.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/

Antenna 4:

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	16.00	16.00	17.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.00	15.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	15.00	15.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.00	15.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	15.00	15.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	14.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.00	15.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	15.00	16.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	15.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/

5.8GWLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	15.00	16.00	16.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	14.00	14.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	13.00	14.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	14.00	14.00	15.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	13.00	14.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	14.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.00	14.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	13.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	13.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/

Antenna 5:

5.2GWLAN

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	13.00	13.00	14.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.00	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	11.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	15.00	15.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	12.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	11.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.00	12.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	/
Target (dBm)	12.00	13.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 42	/	/
Target (dBm)	12.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/

5.8GWLAN

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.00	13.00	13.00
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	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	11.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.00	12.00	12.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	11.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	12.00	/	/
Tolerance $\pm$ (dB)	1.0	/	/
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.00	13.00	13.00
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	/
Target (dBm)	12.00	12.00	/
Tolerance $\pm$ (dB)	1.0	1.0	/
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155	/	/
Target (dBm)	12.00	/	/
Tolerance $\pm$ (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 1:

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	15.00	31.6228	5.21	3.3189	0.0209	1.0000
802.11g	17.00	50.1187	5.21	3.3189	0.0331	1.0000
802.11n(HT20)	16.00	39.8107	5.21	3.3189	0.0263	1.0000
802.11n(HT40)	15.00	31.6228	5.21	3.3189	0.0209	1.0000
802.11ax(HE20)	16.00	39.8107	5.21	3.3189	0.0263	1.0000
802.11ax(HE40)	16.00	39.8107	5.21	3.3189	0.0263	1.0000

Antenna 2:

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	5.21	3.3189	0.0263	1.0000
802.11g	17.00	50.1187	5.21	3.3189	0.0331	1.0000
802.11n(HT20)	16.00	39.8107	5.21	3.3189	0.0263	1.0000
802.11n(HT40)	16.00	39.8107	5.21	3.3189	0.0263	1.0000
802.11ax(HE20)	17.00	50.1187	5.21	3.3189	0.0331	1.0000
802.11ax(HE40)	16.00	39.8107	5.21	3.3189	0.0263	1.0000

Antenna 3:**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	12.00	15.8489	5.06	3.2063	0.0101	1.0000
802.11n20	12.00	15.8489	5.06	3.2063	0.0101	1.0000
802.11n40	12.00	15.8489	5.06	3.2063	0.0101	1.0000
802.11ac20	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ac40	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ac80	12.00	15.8489	5.06	3.2063	0.0101	1.0000
802.11ax20	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ax40	12.00	15.8489	5.06	3.2063	0.0101	1.0000
802.11ax80	12.00	15.8489	5.06	3.2063	0.0101	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	16.00	39.8107	5.06	3.2063	0.0254	1.0000
802.11n20	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11n40	14.00	25.1189	5.06	3.2063	0.0160	1.0000
802.11ac20	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ac40	14.00	25.1189	5.06	3.2063	0.0160	1.0000
802.11ac80	14.00	25.1189	5.06	3.2063	0.0160	1.0000
802.11ax20	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ax40	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ax80	14.00	25.1189	5.06	3.2063	0.0160	1.0000

Antenna 4:**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	18.00	63.0957	5.06	3.2063	0.0402	1.0000
802.11n20	16.00	39.8107	5.06	3.2063	0.0254	1.0000
802.11n40	16.00	39.8107	5.06	3.2063	0.0254	1.0000
802.11ac20	17.00	50.1187	5.06	3.2063	0.0320	1.0000
802.11ac40	16.00	39.8107	5.06	3.2063	0.0254	1.0000
802.11ac80	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ax20	17.00	50.1187	5.06	3.2063	0.0320	1.0000
802.11ax40	17.00	50.1187	5.06	3.2063	0.0320	1.0000
802.11ax80	16.00	39.8107	5.06	3.2063	0.0254	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	17.00	50.1187	5.06	3.2063	0.0320	1.0000
802.11n20	16.00	39.8107	5.06	3.2063	0.0254	1.0000
802.11n40	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ac20	16.00	39.8107	5.06	3.2063	0.0254	1.0000
802.11ac40	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ac80	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ax20	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11ax40	14.00	25.1189	5.06	3.2063	0.0160	1.0000
802.11ax80	14.00	25.1189	5.06	3.2063	0.0160	1.0000

Antenna 5:**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	15.00	31.6228	5.06	3.2063	0.0202	1.0000
802.11n20	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11n40	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ac20	16.00	39.8107	5.06	3.2063	0.0254	1.0000
802.11ac40	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ac80	12.00	15.8489	5.06	3.2063	0.0101	1.0000
802.11ax20	14.00	25.1189	5.06	3.2063	0.0160	1.0000
802.11ax40	14.00	25.1189	5.06	3.2063	0.0160	1.0000
802.11ax80	13.00	19.9526	5.06	3.2063	0.0127	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	5.06	3.2063	0.0160	1.0000
802.11n20	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11n40	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ac20	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ac40	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ac80	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ax20	14.00	25.1189	5.06	3.2063	0.0160	1.0000
802.11ax40	13.00	19.9526	5.06	3.2063	0.0127	1.0000
802.11ax80	13.00	19.9526	5.06	3.2063	0.0127	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 twoWLAN modular,two 2.4GWLAN antenna and three 5GWLAN antenna, Need consider simultaneous 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

6.2.1Summary simultaneous transmission results

Maximum Simultaneous transmission MPE Ratios for2.4GWLAN(ANT 1), 2.4GWLAN(ANT 2), 5.8GWLAN(ANT 3), 5.8GWLAN(ANT 4) , 5.8GWLAN(ANT 5)

Maximum MPE ratio 2.4GWLAN (ANT 1)	Maximum MPE ratio 2.4GWLAN (ANT 2)	Maximum MPE ratio 5.8GWLAN (ANT 3)	Maximum MPE ratio 5.2GWLAN (ANT 4)	Maximum MPE ratio 5.2GWLAN (ANT 5)	$\sum$ MPE ratios	Limit	Results
0.0331	0.0331	0.0254	0.0402	0.0254	0.1572	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.....