

**Maximum Permissible Exposure Report****1. Product Information**

EUT	:	WiFi6 AX3000 Router
Test Model	:	WiFi6 AX3000
Additional Model No.	:	AX3000
Model Declaration	:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	:	Input: 12V $\overline{\text{---}}$ 1.5A For AC Adapter Input: 100-240V~, 50/60Hz, 0.5A Adapter Output: 12V $\overline{\text{---}}$ 1.5A
Hardware Version	:	R301MH_VER1.1
Software Version	:	/
WiFi(2.4G Band)		
Frequency Range	:	2412MHz~2462MHz
Channel Number	:	11 Channels for 20MHz bandwidth(2412~2462MHz) 7 Channels for 40MHz bandwidth(2422~2452MHz)
Channel Spacing	:	5MHz
Modulation Type	:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Antenna0: FPC Antenna, 2.44dBi(Max.) Antenna1: FPC Antenna, 3.91dBi(Max.)
WiFi(5.2G Band)		
Frequency Range	:	5180MHz~5240MHz
Channel Number	:	4 channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Antenna0: FPC Antenna, 3.96dBi(Max.) Antenna1: FPC Antenna, 2.96dBi(Max.)
WiFi(5.8G Band)		
Frequency Range	:	5745MHz~5825MHz
Channel Number	:	5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	:	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)





	IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Antenna0: FPC Antenna, 5.10dBi(Max.) Antenna1: FPC Antenna, 2.90dBi(Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Mobile Device

2. Evaluation Method

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 modelled 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. Limit

3. 1 Refer Evaluation Method

- [ANSI C95.1–2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
- [FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.
- [FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.
- [FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.





3. 2 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/Uncontrolled 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

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

5. Antenna Information

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

Internal/ External Identification	Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal	FPC Antenna	2400MHz ~ 2500MHz	2.4GWIFI: 2.44dBi	2.4G WIFI Antenna 0
	FPC Antenna	2400MHz ~ 2500MHz	2.4GWIFI: 3.91dBi	2.4G WIFI Antenna 1
	FPC Antenna	5000MHz ~ 6000MHz	5.2GWIFI: 3.96dBi 5.8GWIFI: 5.10dBi	5G WIFI Antenna 0
	FPC Antenna	5000MHz ~ 6000MHz	5.2GWIFI: 2.96dBi 5.8GWIFI: 2.90dBi	5G WIFI Antenna 1



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6. Conducted Power

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)
11B	1	2412	17.21	17.33
	6	2437	17.32	17.43
	11	2462	17.4	17.5
11G	1	2412	16.22	16.19
	6	2437	16.38	16.28
	11	2462	16.38	16.38
11N20 SISO	1	2412	15.56	15.56
	6	2437	15.74	15.66
	11	2462	15.76	15.77
11N40 SISO	3	2422	14.53	14.43
	6	2437	14.4	14.42
	9	2452	14.51	14.53
11AX20 SISO	1	2412	15.23	15.37
	6	2437	15.22	15.24
	11	2462	15.55	15.48
11AX40 SISO	3	2422	14.08	14.31
	6	2437	14.52	14.11
	9	2452	14.56	14.09

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)
11A	36	5180	14.23	14.42
	40	5200	14.52	14.42
	48	5240	14.4	14.38
11N20 SISO	36	5180	13.16	13.18
	40	5200	13.53	13.39
	48	5240	13.27	12.31
11N40 SISO	38	5190	12.87	12.28
	46	5230	12.15	12.25
11AC20 SISO	36	5180	13.4	13.19
	40	5200	13.43	13.58
	48	5240	13.17	12.25
11AC40 SISO	38	5190	12.9	12.35
	46	5230	12.46	12.43
11AC80 SISO	42	5210	11.81	11.56
11AX20 SISO	36	5180	13.26	13.77
	40	5200	13.53	13.43
	48	5240	12.99	13.32
11AX40 SISO	38	5190	12.44	12.98
	46	5230	12.55	12.04
11AX80 SISO	42	5210	11.64	11.64



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[5.8G WIFI]

Mode	Channel	Frequency (MHz)	Ant 0 Max Conducted Power(dBm)	Ant 1 Max Conducted Power(dBm)
11A	149	5745	14.65	14.51
	157	5785	14.79	14.73
	165	5825	14.72	14.61
11N20 SISO	149	5745	13.47	13.4
	157	5785	13.42	13.34
	165	5825	13.69	13.4
11N40 SISO	151	5755	12.4	12.34
	159	5795	12.55	12.44
11AC20 SISO	149	5745	13.57	13.37
	157	5785	13.06	13.36
	165	5825	13.72	13.37
11AC40 SISO	151	5755	12.4	12.85
	159	5795	12.53	12.45
11AC80 SISO	155	5775	11.62	11.58
11AX20 SISO	149	5745	13.51	13.4
	157	5785	13.9	13.41
	165	5825	13.74	13.62
11AX40 SISO	151	5755	12.86	12.45
	159	5795	12.81	12.27
11AX80 SISO	155	5775	11.55	11.57





7. Manufacturing Tolerance

[2.4G WIFI Ant0]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	17.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	16.0	16.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0





[2.4G WIFI Ant1]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	17.0	17.0	17.0
Tolerance ±(dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	16.0	16.0	16.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	15.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0





[5.2G WIFI Ant0]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 42		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	13.0	13.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 42		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		



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[5.2G WIFI Ant1]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	13.0	13.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	13.0	13.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 42		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 42		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		



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[5.8G WIFI Ant0]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 155		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 155		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		



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[5.8G WIFI Ant1]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	14.0	14.0	14.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11AC40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AC80(Average)			
Channel	Channel 155		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		
11AX20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	13.0	13.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11AX40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	12.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11AX80(Average)			
Channel	Channel 155		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		





8. Measurement Results

8.1 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.

[2.4G WIFI Ant0]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11b	18.0	63.0957	2.44	1.75	0.0220	1.0000
IEEE 802.11g	17.0	50.1187	2.44	1.75	0.0175	1.0000
IEEE 802.11n HT20	16.0	39.8107	2.44	1.75	0.0139	1.0000
IEEE 802.11n HT40	15.0	31.6228	2.44	1.75	0.0110	1.0000
IEEE 802.11AX HT20	16.0	39.8107	2.44	1.75	0.0139	1.0000
IEEE 802.11AX HT40	15.0	31.6228	2.44	1.75	0.0110	1.0000

[2.4G WIFI Ant1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11b	18.0	63.0957	3.91	2.46	0.0309	1.0000
IEEE 802.11g	17.0	50.1187	3.91	2.46	0.0245	1.0000
IEEE 802.11n HT20	16.0	39.8107	3.91	2.46	0.0195	1.0000
IEEE 802.11n HT40	15.0	31.6228	3.91	2.46	0.0155	1.0000
IEEE 802.11AX HT20	16.0	39.8107	3.91	2.46	0.0195	1.0000
IEEE 802.11AX HT40	15.0	31.6228	3.91	2.46	0.0155	1.0000

[5.2G WIFI Ant0]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	15.0	31.6228	3.96	2.49	0.0157	1.0000
IEEE 802.11n HT20	14.0	25.1189	3.96	2.49	0.0124	1.0000
IEEE 802.11n HT40	13.0	19.9526	3.96	2.49	0.0099	1.0000
IEEE 802.11ac VHT20	14.0	25.1189	3.96	2.49	0.0124	1.0000
IEEE 802.11ac VHT40	13.0	19.9526	3.96	2.49	0.0099	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	3.96	2.49	0.0078	1.0000
IEEE 802.11ax VHT20	14.0	25.1189	3.96	2.49	0.0124	1.0000
IEEE 802.11ax VHT40	13.0	19.9526	3.96	2.49	0.0099	1.0000
IEEE 802.11ax VHT80	12.0	15.8489	3.96	2.49	0.0078	1.0000



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[5.2G WIFI Ant1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	15.0	31.6228	2.96	1.98	0.0124	1.0000
IEEE 802.11n HT20	14.0	25.1189	2.96	1.98	0.0099	1.0000
IEEE 802.11n HT40	13.0	19.9526	2.96	1.98	0.0078	1.0000
IEEE 802.11ac VHT20	14.0	25.1189	2.96	1.98	0.0099	1.0000
IEEE 802.11ac VHT40	13.0	19.9526	2.96	1.98	0.0078	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	2.96	1.98	0.0062	1.0000
IEEE 802.11ax VHT20	14.0	25.1189	2.96	1.98	0.0099	1.0000
IEEE 802.11ax VHT40	13.0	19.9526	2.96	1.98	0.0078	1.0000
IEEE 802.11ax VHT80	12.0	15.8489	2.96	1.98	0.0062	1.0000

[5.8G WIFI Ant0]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	15.0	31.6228	5.10	3.24	0.0204	1.0000
IEEE 802.11n HT20	14.0	25.1189	5.10	3.24	0.0162	1.0000
IEEE 802.11n HT40	13.0	19.9526	5.10	3.24	0.0128	1.0000
IEEE 802.11ac VHT20	14.0	25.1189	5.10	3.24	0.0162	1.0000
IEEE 802.11ac VHT40	13.0	19.9526	5.10	3.24	0.0128	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	5.10	3.24	0.0102	1.0000
IEEE 802.11ax VHT20	14.0	25.1189	5.10	3.24	0.0162	1.0000
IEEE 802.11ax VHT40	13.0	19.9526	5.10	3.24	0.0128	1.0000
IEEE 802.11ax VHT80	12.0	15.8489	5.10	3.24	0.0102	1.0000



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[5.8G WIFI Ant1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	15.0	31.6228	2.90	1.95	0.0123	1.0000
IEEE 802.11n HT20	14.0	25.1189	5.10	1.95	0.0097	1.0000
IEEE 802.11n HT40	13.0	19.9526	5.10	1.95	0.0077	1.0000
IEEE 802.11ac VHT20	14.0	25.1189	5.10	1.95	0.0097	1.0000
IEEE 802.11ac VHT40	13.0	19.9526	5.10	1.95	0.0077	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	5.10	1.95	0.0061	1.0000
IEEE 802.11ax VHT20	14.0	25.1189	5.10	1.95	0.0097	1.0000
IEEE 802.11ax VHT40	13.0	19.9526	5.10	1.95	0.0077	1.0000
IEEE 802.11ax VHT80	12.0	15.8489	5.10	1.95	0.0061	1.0000

Remark:

1. Output power including turn-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

8.2 Simultaneous Transmission MPE Evaluation

The EUT equipped with two 2.4GWIFI antenna and tow 5G WIFI antenna. So, need consider simultaneous transmission;
According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;
 $\Sigma\Sigma$ of MPE ratios ≤ 1.0

Simultaneous Transmission								
2.4GWIFI MAX MPE ratios		5.2GWIFI MAX MPE ratios		5.8GWIFI MAX MPE ratios		Σ MPE ratios	Limit	Results
Ant0	Ant1	Ant0	Ant1	Ant0	Ant1			
0.0220	0.0309	0.0157	0.0124	/	/	0.0810	1.0	Pass
0.0220	0.0309	/	/	0.0204	0.0123	0.0856	1.0	Pass

Remark:

1. Output power including tune-up tolerance;
2. 2.4G WIFI output power is burst peak power;
3. 5G WIFI output power is burst average power;
4. MPE evaluate distance is 20cm from user manual provide by manufacturer;
5. MPE values = $PG/4\pi R^2$

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----THE END OF REPORT-----

