



RF Exposure Evaluation

For

SHENZHEN TENDA TECHNOLOGY CO., LTD.

BE5100 Whole Home Mesh Wi-Fi 7 System

Test Model: Mesh6EP

Additional Model No.: ME6 Pro, EE6 Pro

Prepared for : SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : July 17, 2025
Number of tested samples : 2
Sample No. : A250707134-1, A250707134-2
Serial number : Prototype
Date of Test : July 17, 2025 ~ August 14, 2025
Date of Report : August 15, 2025



**RF Exposure Evaluation****Report Reference No.** : **LCSA07165013EF****Date of Issue**..... : August 15, 2025**Testing Laboratory Name** : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address**..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, China**Testing Location/ Procedure**..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name**..... : **SHENZHEN TENDA TECHNOLOGY CO., LTD.****Address**..... : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,
Shenzhen, China. 518052**Test Specification****Standard** : FCC KDB publication 447498 D01 General RF Exposure Guidance v06
FCC CFR 47 part1 1.1310
FCC CFR 47 part2 2.1091**Test Report Form No.**..... : TRF-4-E-214 A/0**TRF Originator** : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**..... : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

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EUT Description..... : **BE5100 Whole Home Mesh Wi-Fi 7 System****Trade Mark**..... : N/A**Test Model** : Mesh6EP**Ratings**..... : Please Refer to Page 6**Result** : **PASS****Compiled by:**

Jack Liu/Administrator

Supervised by:

Kevin Huang/ Technique principal

Approved by:

Gavin Liang/ Manager





RF Exposure Evaluation

Test Report No. : LCSA07165013EF	<u>August 15, 2025</u> Date of issue
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EUT.....	: BE5100 Whole Home Mesh Wi-Fi 7 System
Test Model.....	: Mesh6EP
Applicant.....	: SHENZHEN TENDA TECHNOLOGY CO., LTD.
Address.....	: 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Telephone.....	: /
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Telephone.....	: /
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Factory.....	: /
Address.....	: /
Telephone.....	: /
Fax.....	: /

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.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 15, 2025	Initial Issue	---





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1. Product Information

EUT	:	BE5100 Whole Home Mesh Wi-Fi 7 System
Test Model	:	Mesh6EP
Additional Model No.	:	ME6 Pro, EE6 Pro
Model Declaration	:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	:	Input: 12V $\rightarrow$ 2A For Adapter Input:100-240V~, 50/60Hz, 0.6A Output: 12.0V $\rightarrow$ 2.0A, 24.0W
Hardware Version	:	/
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,OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11be: OFDM,OFDMA (4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Ant1: Internal Antenna, 4.09dBi(Max.) Ant2: Internal Antenna, 3.9dBi(Max.)
WIFI(5.2G Band)		
Frequency Range	:	5150MHz~5250MHz
Channel Number	:	4 channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz) 1 channels for 160MHz bandwidth(5250MHz)
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,OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11be: OFDM,OFDMA (4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Ant1: Internal Antenna, 4.15dBi(Max.) Ant2: Internal Antenna, 3.67dBi(Max.) Ant3: Internal Antenna, 3.77dBi(Max.)
WIFI(5.3G Band)		





Frequency Range	:	5250MHz~5350MHz
Channel Number	:	4 Channels for 20MHz bandwidth(5260MHz-5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz) 1 channels for 80MHz bandwidth(5290MHz) 1 channels for 160MHz bandwidth(5250MHz)
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,OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11be: OFDM,OFDMA (4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Ant1: Internal Antenna, 4.15dBi(Max.) Ant2: Internal Antenna, 3.67dBi(Max.) Ant3: Internal Antenna, 3.77dBi(Max.)
WIFI(5.8G Band)		
Frequency Range	:	5725MHz~5850MHz
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,OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11be: OFDM,OFDMA (4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	:	Ant1: Internal Antenna, 3.3dBi(Max.) Ant2: Internal Antenna, 3.73dBi(Max.) Ant3: Internal Antenna, 3.42dBi(Max.)
Exposure category	:	General population/uncontrolled environment
EUT Type	:	Production Unit
Device Type	:	Mobile Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.





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



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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	Internal Antenna	2400MHz ~ 2500MHz 5000MHz ~ 6000MHz	2.4GWIFI:4.09dBi(Max) 5.2GWIFI:4.15dBi(Max) 5.3GWIFI:4.15dBi(Max) 5.8GWIFI:3.3dBi(Max)	WIFI Antenna 1
	Internal Antenna	2400MHz ~ 2500MHz 5000MHz ~ 6000MHz	2.4GWIFI:3.9dBi(Max) 5.2GWIFI:3.67dBi(Max) 5.3GWIFI:3.67dBi(Max) 5.8GWIFI:3.73dBi(Max)	WIFI Antenna 2
	Internal Antenna	5000MHz ~ 6000MHz	5.2GWIFI:3.77dBi(Max) 5.3GWIFI:3.77dBi(Max) 5.8GWIFI:3.42dBi(Max)	WIFI Antenna 3

6. Conducted Power

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)
11B	1	2412	23.42	24.64
	6	2437	23.87	23.57
	11	2462	24.75	23.76
11G	1	2412	24.46	24.72
	6	2437	23.23	23.35
	11	2462	24.32	23.62
11N20 SISO	1	2412	24.81	24.50
	6	2437	23.44	23.20
	11	2462	24.35	24.40
11N40 SISO	3	2422	24.50	24.28
	6	2437	23.83	24.50
	9	2452	24.21	23.34
11ax20 SISO	1	2412	24.59	23.31
	6	2437	23.99	24.88
	11	2462	24.25	23.57
11ax40 SISO	3	2422	23.70	23.78
	6	2437	23.60	23.41
	9	2452	24.18	24.68
11be20 SISO	1	2412	23.36	24.25
	6	2437	23.22	23.25
	11	2462	23.39	23.16



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11be40 SISO	3	2422	24.01	24.03
	6	2437	24.74	24.38
	9	2452	24.48	24.62

[5.2G WIFI]

Mode	Channel	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)	Ant 3 Max Conducted Power(dBm)
11A	36	5180	12.14	12.13	12.16
	40	5200	11.84	11.75	11.92
	48	5240	11.67	12.11	11.15
11N20 SISO	36	5180	11.41	11.48	11.62
	40	5200	11.1	11.23	11.32
	48	5240	11.22	11.39	11.5
11N40 SISO	38	5190	11.24	10.35	10.32
	46	5230	11.18	10.62	10.64
11ac20 SISO	36	5180	11.4	11.54	11.56
	40	5200	11.18	11.17	11.27
	48	5240	11.23	11.4	11.38
11ac40 SISO	38	5190	11.2	10.32	10.38
	46	5230	10.54	10.61	10.39
11ac80 SISO	42	5210	10.76	10.86	11.08
11ac160 SISO	50	5250	14.85	14.04	14.63
11ax20 SISO	36	5180	11.35	11.51	11.53
	40	5200	11.11	11.19	11.2
	48	5240	11.23	11.48	11.41
11ax40 SISO	38	5190	11.11	10.3	10.96
	46	5230	10.22	10.49	10.26
11ax80 SISO	42	5210	10.76	10.86	11.04
11ax160 SISO	50	5250	14.85	14.06	13.59
11be20 SISO	36	5180	11.32	11.81	11.98
	40	5200	11.85	11.4	12.2
	48	5240	11.22	11.52	11.48
11be40 SISO	38	5190	10.92	10.46	11.19
	46	5230	10.3	10.32	10.1
11be80 SISO	42	5210	10.66	10.62	10.33
11be160 SISO	50	5250	15.32	14.15	14.84

[5.3G WIFI]

Mode	Channel	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)	Ant 3 Max Conducted Power(dBm)
11A	52	5260	12.35	11.99	12.72
	60	5280	13.37	12.43	11.92
	64	5320	12.67	13.18	12.11
11N20 SISO	52	5260	11.77	11.98	11.77
	60	5280	11.6	11.19	10.97
	64	5320	11.9	11.61	11.38
11N40 SISO	54	5270	10.83	10.64	10.63
	62	5310	11.37	11.39	11.33
11ac20 SISO	52	5260	11.07	10.97	11.7
	60	5280	11.83	11.14	11.1
	64	5320	11.75	11.54	11.48
11ac40 SISO	54	5270	10.79	10.74	10.53
	62	5310	11.59	11.41	11.37



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11ac80 SISO	58	5290	11.37	11.23	11.12
11ac160 SISO	50	5250	14.85	14.04	14.63
11ax20 SISO	52	5260	11.01	10.89	11.66
	60	5280	11.36	11.19	11.16
	64	5320	11.74	11.53	11.39
11ax40 SISO	54	5270	10.73	10.65	10.6
	62	5310	11.52	11.42	11.37
11ax80 SISO	58	5290	11.43	10.94	11.18
11ax160 SISO	50	5250	14.85	14.06	13.59
11be20 SISO	52	5260	12.73	11.8	12.54
	60	5280	12.31	10.81	11.99
	64	5320	12.05	11.87	11.97
11be40 SISO	54	5270	11.36	11.28	11.12
	62	5310	12.01	11.85	11.61
11be80 SISO	58	5290	11.84	11.8	11.6
11be160 SISO	50	5250	15.32	14.15	14.84

[5.8G WIFI Max Conducted Power]

Mode	Channel	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)	Ant 3 Max Conducted Power(dBm)
11A	149	5745	12.89	12.89	12.99
	157	5785	12.17	12.26	12.33
	165	5825	12.14	12.35	12.41
11N20 SISO	149	5745	11.27	11.31	11.36
	157	5785	11.5	11.57	11.66
	165	5825	11.56	11.63	11.74
11N40 SISO	151	5755	10.94	10.97	11.04
	159	5795	11.13	10.22	10.33
11ac20 SISO	149	5745	11.26	11.32	11.39
	157	5785	11.58	11.67	11.69
	165	5825	11.54	11.66	11.78
11ac40 SISO	151	5755	10.9	10.99	11.05
	159	5795	11.09	10.31	10.32
11ac80 SISO	155	5775	11.15	11.13	11.27
11ax20 SISO	149	5745	11.28	11.3	11.4
	157	5785	11.58	11.65	11.68
	165	5825	11.51	11.61	11.78
11ax40 SISO	151	5755	10.89	10.93	11.06
	159	5795	11.09	11.27	10.31
11ax80 SISO	155	5775	11.15	11.16	11.27
11be20 SISO	149	5745	11.52	11.62	11.7
	157	5785	10.9	10.98	10.96
	165	5825	10.99	11.03	11.03
11be40 SISO	151	5755	11.21	11.25	11.31
	159	5795	10.5	10.59	10.54
11be80 SISO	155	5775	10.56	10.65	10.55



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7. Manufacturing Tolerance

[2.4G WIFI Ant 1]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	23.0	23.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	24.0	23.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	24.0	23.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	24.0	23.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ax20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	24.0	23.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ax40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	23.0	23.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11be20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	23.0	23.0	23.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11be40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	24.0	24.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[2.4G WIFI Ant2]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	24.0	23.0	23.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	24.0	23.0	23.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	24.0	23.0	24.0



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Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	24.0	24.0	23.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ax20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	23.0	24.0	23.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ax40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	23.0	23.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11be20(Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	24.0	23.0	23.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11be40(Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	24.0	24.0	24.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[5.2G WIFI Ant1]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	11.0	11.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11ac20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	11.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11ac80(Average)			
Channel	Channel 42		
Target (dBm)	10.0		
Tolerance $\pm$ (dB)	1.0		
11AC160(Average)			



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Channel	Channel 50		
Target (dBm)	14.0		
Tolerance $\pm$ (dB)	1.0		
11ax20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channe 38	Channel 46	
Target (dBm)	11.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11ax80(Average)			
Channel	Channel 42		
Target (dBm)	10.0		
Tolerance $\pm$ (dB)	1.0		
11ax160(Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance $\pm$ (dB)	1.0		
11be20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11be40(Average)			
Channel	Channe 38	Channel 46	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11be80(Average)			
Channel	Channel 42		
Target (dBm)	10.0		
Tolerance $\pm$ (dB)	1.0		
11be160(Average)			
Channel	Channel 50		
Target (dBm)	15.0		
Tolerance $\pm$ (dB)	1.0		

[5.2G WIFI Ant2]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.0	11.0	12.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	





Target (dBm)	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0
11ac20(Average)		
Channel	Channel 36	Channel 40
Target (dBm)	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0
11ac40(Average)		
Channel	Channel 38	Channel 46
Target (dBm)	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0
11ac80(Average)		
Channel	Channel 42	
Target (dBm)	10.0	
Tolerance $\pm$ (dB)	1.0	
11AC160(Average)		
Channel	Channel 50	
Target (dBm)	14.0	
Tolerance $\pm$ (dB)	1.0	
11ax20(Average)		
Channel	Channel 36	Channel 40
Target (dBm)	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0
11ax40(Average)		
Channel	Channel 38	Channel 46
Target (dBm)	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0
11ax80(Average)		
Channel	Channel 42	
Target (dBm)	10.0	
Tolerance $\pm$ (dB)	1.0	
11ax160(Average)		
Channel	Channel 50	
Target (dBm)	14.0	
Tolerance $\pm$ (dB)	1.0	
11be20(Average)		
Channel	Channel 36	Channel 40
Target (dBm)	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0
11be40(Average)		
Channel	Channel 38	Channel 46
Target (dBm)	10.0	10.0
Tolerance $\pm$ (dB)	1.0	1.0
11be80(Average)		
Channel	Channel 42	
Target (dBm)	10.0	
Tolerance $\pm$ (dB)	1.0	
11be160(Average)		



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Channel	Channel 50
Target (dBm)	14.0
Tolerance $\pm$ (dB)	1.0

[5.2G WIFI Ant3]

11A(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	12.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11ac20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11ac80(Average)			
Channel	Channel 42		
Target (dBm)	11.0		
Tolerance $\pm$ (dB)	1.0		
11AC160(Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance $\pm$ (dB)	1.0		
11ax20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	11.0	11.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	10.0	10.0	
Tolerance $\pm$ (dB)	1.0	1.0	
11ax80(Average)			
Channel	Channel 42		
Target (dBm)	11.0		
Tolerance $\pm$ (dB)	1.0		
11ax160(Average)			
Channel	Channel 50		



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Target (dBm)	13.0		
Tolerance ±(dB)	1.0		
11be20(Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	11.0	12.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11be40(Average)			
Channel	Channe 38		Channel 46
Target (dBm)	11.0		10.0
Tolerance ±(dB)	1.0		1.0
11be80(Average)			
Channel	Channel 42		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		
11be160(Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		

[5.3G WIFI Ant 1]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	12.0	13.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 54		Channel 62
Target (dBm)	10.0		11.0
Tolerance ±(dB)	1.0		1.0
11ac20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channel 54		Channel 62
Target (dBm)	10.0		11.0
Tolerance ±(dB)	1.0		1.0
11ac80 (Average)			
Channel	Channel 58		
Target (dBm)	11.0		
Tolerance ± (dB)	1.0		
11ac160 (Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		





11ax20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	10.0	11.0	
Tolerance ±(dB)	1.0	1.0	
11ax80 (Average)			
Channel	Channel 58		
Target (dBm)	11.0		
Tolerance ± (dB)	1.0		
11ax160 (Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		
11be20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11be40(Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	11.0	12.0	
Tolerance ±(dB)	1.0	1.0	
11be80 (Average)			
Channel	Channel 58		
Target (dBm)	11.0		
Tolerance ± (dB)	1.0		
11be160 (Average)			
Channel	Channel 50		
Target (dBm)	15.0		
Tolerance ±(dB)	1.0		

[5.3G WIFI Ant 2]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	12.0	13.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	10.0	11.0	
Tolerance ±(dB)	1.0	1.0	
11ac20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	10.0	11.0	11.0



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Tolerance ±(dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channel 54		Channel 62
Target (dBm)	10.0		11.0
Tolerance ±(dB)	1.0		1.0
11ac80 (Average)			
Channel	Channel 58		
Target (dBm)	11.0		
Tolerance ± (dB)	1.0		
11ac160 (Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		
11ax20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	10.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channel 54		Channel 62
Target (dBm)	10.0		11.0
Tolerance ±(dB)	1.0		1.0
11ax80 (Average)			
Channel	Channel 58		
Target (dBm)	10.0		
Tolerance ± (dB)	1.0		
11ax160 (Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		
11be20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	10.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11be40(Average)			
Channel	Channel 54		Channel 62
Target (dBm)	11.0		11.0
Tolerance ±(dB)	1.0		1.0
11be80 (Average)			
Channel	Channel 58		
Target (dBm)	11.0		
Tolerance ± (dB)	1.0		
11be160 (Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		



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[5.3G WIFI Ant 3]

11A (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	12.0	11.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	10.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	10.0	11.0	
Tolerance ±(dB)	1.0	1.0	
11ac20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	10.0	11.0	
Tolerance ±(dB)	1.0	1.0	
11ac80 (Average)			
Channel	Channel 58		
Target (dBm)	11.0		
Tolerance ± (dB)	1.0		
11ac160 (Average)			
Channel	Channel 50		
Target (dBm)	14.0		
Tolerance ±(dB)	1.0		
11ax20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	10.0	11.0	
Tolerance ±(dB)	1.0	1.0	
11ax80 (Average)			
Channel	Channel 58		
Target (dBm)	11.0		
Tolerance ± (dB)	1.0		
11ax160 (Average)			
Channel	Channel 50		
Target (dBm)	13.0		
Tolerance ±(dB)	1.0		
11be20(Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	12.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0



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11be40(Average)		
Channel	Channel 54	Channel 62
Target (dBm)	11.0	11.0
Tolerance ±(dB)	1.0	1.0
11be80 (Average)		
Channel	Channel 58	
Target (dBm)	11.0	
Tolerance ± (dB)	1.0	
11be160 (Average)		
Channel	Channel 50	
Target (dBm)	14.0	
Tolerance ±(dB)	1.0	

[5.8G WIFI Ant 1]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151		Channel 159
Target (dBm)	10.0		11.0
Tolerance ±(dB)	1.0		1.0
11ac20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channe151		Channel 159
Target (dBm)	10.0		11.0
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)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channe151		Channel 159
Target (dBm)	10.0		11.0
Tolerance ±(dB)	1.0		1.0
11ax80 (Average)			
Channel	Channel 155		



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Target (dBm)	11.0		
Tolerance ±(dB)	1.0		
11be20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	10.0	10.0
Tolerance ±(dB)	1.0	1.0	1.0
11be40(Average)			
Channel	Channe151	Channel 159	
Target (dBm)	11.0	10.0	
Tolerance ±(dB)	1.0	1.0	
11be80 (Average)			
Channel	Channel 155		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		

[5.8G WIFI Ant 2]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	10.0	10.0	
Tolerance ±(dB)	1.0	1.0	
11ac20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channe151	Channel 159	
Target (dBm)	10.0	10.0	
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)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channe151	Channel 159	
Target (dBm)	10.0	11.0	
Tolerance ±(dB)	1.0	1.0	



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11ax80 (Average)			
Channel	Channel 155		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		
11be20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	10.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11be40(Average)			
Channel	Channe151		Channel 159
Target (dBm)	11.0		10.0
Tolerance ±(dB)	1.0		1.0
11be80 (Average)			
Channel	Channel 155		
Target (dBm)	10.0		
Tolerance ±(dB)	1.0		

[5.8G WIFI Ant 3]

11A (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	12.0	12.0	12.0
Tolerance ±(dB)	1.0	1.0	1.0
11N20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11N40(Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	11.0	10.0	
Tolerance ±(dB)	1.0	1.0	
11ac20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ac40(Average)			
Channel	Channe151	Channel 159	
Target (dBm)	11.0	10.0	
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)	11.0	11.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11ax40(Average)			
Channel	Channe151	Channel 159	



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Target (dBm)	11.0		11.0
Tolerance ±(dB)	1.0		1.0
11ax80 (Average)			
Channel	Channel 155		
Target (dBm)	11.0		
Tolerance ±(dB)	1.0		
11be20(Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	11.0	10.0	11.0
Tolerance ±(dB)	1.0	1.0	1.0
11be40(Average)			
Channel	Channe151		Channel 159
Target (dBm)	11.0		10.0
Tolerance ±(dB)	1.0		1.0
11be80 (Average)			
Channel	Channel 155		
Target (dBm)	10.0		
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 Ant 1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11b	25.0	316.2278	4.09	2.5645	0.1614	1.0000
IEEE 802.11g	25.0	316.2278	4.09	2.5645	0.1614	1.0000
IEEE 802.11n HT20	25.0	316.2278	4.09	2.5645	0.1614	1.0000
IEEE 802.11n HT40	25.0	316.2278	4.09	2.5645	0.1614	1.0000
IEEE 802.11ax HE20	25.0	316.2278	4.09	2.5645	0.1614	1.0000
IEEE 802.11ax HE40	25.0	316.2278	4.09	2.5645	0.1614	1.0000
IEEE 802.11be EHT20	24.0	251.1886	4.09	2.5645	0.1282	1.0000
IEEE 802.11be EHT40	25.0	316.2278	4.09	2.5645	0.1614	1.0000

[2.4G WIFI Ant 2]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11b	25.0	316.2278	3.9	2.4547	0.1545	1.0000
IEEE 802.11g	25.0	316.2278	3.9	2.4547	0.1545	1.0000
IEEE 802.11n HT20	25.0	316.2278	3.9	2.4547	0.1545	1.0000
IEEE 802.11n HT40	25.0	316.2278	3.9	2.4547	0.1545	1.0000
IEEE 802.11ax HE20	25.0	316.2278	3.9	2.4547	0.1545	1.0000
IEEE 802.11ax HE40	25.0	316.2278	3.9	2.4547	0.1545	1.0000
IEEE 802.11be EHT20	25.0	316.2278	3.9	2.4547	0.1545	1.0000
IEEE 802.11be EHT40	25.0	316.2278	3.9	2.4547	0.1545	1.0000



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[5.2G WIFI Ant 1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	4.15	2.6002	0.0103	1.0000
IEEE 802.11n HT20	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11n HT40	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ac VHT80	11.0	12.5893	4.15	2.6002	0.0065	1.0000
IEEE 802.11ac VHT160	15.0	31.6228	4.15	2.6002	0.0164	1.0000
IEEE 802.11ax HE20	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ax HE40	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ax HE80	11.0	12.5893	4.15	2.6002	0.0065	1.0000
IEEE 802.11ax HE160	15.0	31.6228	4.15	2.6002	0.0164	1.0000
IEEE 802.11be EHT20	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11be EHT40	11.0	12.5893	4.15	2.6002	0.0065	1.0000
IEEE 802.11be EHT80	11.0	12.5893	4.15	2.6002	0.0065	1.0000
IEEE 802.11be EHT160	16.0	39.8107	4.15	2.6002	0.0206	1.0000

[5.2G WIFI Ant 2]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.67	2.3281	0.0092	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11n HT40	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ac VHT40	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11ac VHT80	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11ac VHT160	15.0	31.6228	3.67	2.3281	0.0147	1.0000
IEEE 802.11ax HE20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ax HE40	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11ax HE80	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11ax HE160	15.0	31.6228	3.67	2.3281	0.0147	1.0000
IEEE 802.11be EHT20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11be EHT40	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11be EHT80	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11be EHT160	15.0	31.6228	3.67	2.3281	0.0147	1.0000

[5.2G WIFI Ant 3]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.77	2.3823	0.0095	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11n HT40	11.0	12.5893	3.77	2.3823	0.0060	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ac VHT40	11.0	12.5893	3.77	2.3823	0.0060	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ac VHT160	15.0	31.6228	3.77	2.3823	0.0150	1.0000
IEEE 802.11ax HE20	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ax HE40	11.0	12.5893	3.77	2.3823	0.0060	1.0000
IEEE 802.11ax HE80	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ax HE160	14.0	25.1189	3.77	2.3823	0.0119	1.0000
IEEE 802.11be EHT20	13.0	19.9526	3.77	2.3823	0.0095	1.0000
IEEE 802.11be EHT40	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11be EHT80	11.0	12.5893	3.77	2.3823	0.0060	1.0000
IEEE 802.11be EHT160	15.0	31.6228	3.77	2.3823	0.0150	1.0000



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[5.3G WIFI Ant 1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	14.0	25.1189	4.15	2.6002	0.0130	1.0000
IEEE 802.11n HT20	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11n HT40	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ac VHT160	15.0	31.6228	4.15	2.6002	0.0164	1.0000
IEEE 802.11ax HE20	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ax HE40	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ax HE80	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11ax HE160	15.0	31.6228	4.15	2.6002	0.0164	1.0000
IEEE 802.11be EHT20	13.0	19.9526	4.15	2.6002	0.0103	1.0000
IEEE 802.11be EHT40	13.0	19.9526	4.15	2.6002	0.0103	1.0000
IEEE 802.11be EHT80	12.0	15.8489	4.15	2.6002	0.0082	1.0000
IEEE 802.11be EHT160	16.0	39.8107	4.15	2.6002	0.0206	1.0000

[5.3G WIFI Ant 2]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	14.0	25.1189	3.67	2.3281	0.0116	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11n HT40	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ac VHT160	15.0	31.6228	3.67	2.3281	0.0147	1.0000
IEEE 802.11ax HE20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ax HE40	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11ax HE80	11.0	12.5893	3.67	2.3281	0.0058	1.0000
IEEE 802.11ax HE160	15.0	31.6228	3.67	2.3281	0.0147	1.0000
IEEE 802.11be EHT20	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11be EHT40	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11be EHT80	12.0	15.8489	3.67	2.3281	0.0073	1.0000
IEEE 802.11be EHT160	15.0	31.6228	3.67	2.3281	0.0147	1.0000

[5.3G WIFI Ant 3]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm ²)	MPE Limits (mW/cm ²)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.77	2.3823	0.0095	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11n HT40	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ac VHT160	15.0	31.6228	3.77	2.3823	0.0150	1.0000
IEEE 802.11ax HE20	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ax HE40	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ax HE80	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11ax HE160	14.0	25.1189	3.77	2.3823	0.0119	1.0000
IEEE 802.11be EHT20	13.0	19.9526	3.77	2.3823	0.0095	1.0000
IEEE 802.11be EHT40	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11be EHT80	12.0	15.8489	3.77	2.3823	0.0075	1.0000
IEEE 802.11be EHT160	15.0	31.6228	3.77	2.3823	0.0150	1.0000



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[5.8G WIFI Ant 1]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm2)	MPE Limits (mW/cm2)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.3	2.1380	0.0085	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11n HT40	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11ax HE20	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11ax HE40	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11ax HE80	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11be EHT20	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11be EHT40	12.0	15.8489	3.3	2.1380	0.0067	1.0000
IEEE 802.11be EHT80	11.0	12.5893	3.3	2.1380	0.0054	1.0000

[5.8G WIFI Ant 2]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm2)	MPE Limits (mW/cm2)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.73	2.3605	0.0094	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11n HT40	11.0	12.5893	3.73	2.3605	0.0059	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11ac VHT40	11.0	12.5893	3.73	2.3605	0.0059	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11ax HE20	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11ax HE40	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11ax HE80	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11be EHT20	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11be EHT40	12.0	15.8489	3.73	2.3605	0.0074	1.0000
IEEE 802.11be EHT80	11.0	12.5893	3.73	2.3605	0.0059	1.0000

[5.8G WIFI Ant 3]

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm2)	MPE Limits (mW/cm2)
	dBm	mW				
IEEE 802.11a	13.0	19.9526	3.42	2.1979	0.0087	1.0000
IEEE 802.11n HT20	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11n HT40	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11ac VHT20	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11ac VHT40	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11ac VHT80	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11ax HE20	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11ax HE40	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11ax HE80	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11be EHT20	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11be EHT40	12.0	15.8489	3.42	2.1979	0.0069	1.0000
IEEE 802.11be EHT80	11.0	12.5893	3.42	2.1979	0.0055	1.0000

Remark:

1. Output power including tune-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 sample support one 2.4G WLAN & 5.2G WLAN & 5.3G WLAN & 5.8G WLAN, another one 2.4G WLAN & 5.2G WLAN & 5.3G WLAN & 5.8G WLAN, so need consider simultaneous transmission;
According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;
 $\sum \sum$ of MPE ratios ≤ 1.0

<the worst simultaneous transmission operations result- 2.4GWIFI>

2.4GWIFI-Ant 1	2.4GWIFI-Ant 2	$\sum$ MPE ratios	Limit	Results
0.1614	0.1545	0.3159	1.0	Pass

<the worst simultaneous transmission operations result- 5GWIFI>

5GWIFI-Ant 1	5GWIFI-Ant 2	5GWIFI-Ant 3	$\sum$ MPE ratios	Limit	Results
0.0206	0.0147	0.0150	0.0503	1.0	Pass

Remark:

1. Output power including turn-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. $MPE\ values = PG/4\pi R^2$
6. Both 2.4GWIFI and 5GWIFI cannot be transmitter simultaneously.

9. Conclusion

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

10. Description of Test Facility

NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.

11. Measurement Uncertainty

2.4GWIFI/5.2GWIFI/5.3GWIFI/5.8GWIFI:

Test Item	Frequency Range	Uncertainty	Note
Output power	1GHz-40GHz	± 0.57 dB	(1)

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

