



RF Exposure Evaluation

For

Medicatech USA

Flat Panel Detector

Test Model: MasterX903SW

Additional Model No.: Please Refer to Page 6

Prepared for : Medicatech USA
Address : 1245 N Patt St, Anaheim, CA 92801, United States

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : January 06, 2026
Number of tested samples : 2
Sample No. : A251224093-1, A251224093-2
Serial number : 2402001
Date of Test : January 06, 2026 ~ February 24, 2026
Date of Report : February 25, 2026



**FCC TEST REPORT**
FCC CFR 47 PART 15E (15.407)**Report Reference No.** : **LCSA12255082EF****Date of Issue** : February 25, 2026**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** : **Medicatech USA****Address** : 1245 N Patt St, Anaheim, CA 92801, United States**Test Specification****Standard** : FCC KDB publication 447498 D01 General RF Exposure Guidance
v06
FCC CFR 47 part1 1.1310
FCC CFR 47 part2 2.1093**Test Report Form No.** : TRF-4-E-215 A0**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 : **Flat Panel Detector****Trade Mark** : MasterX**Test Model** : MasterX903SW**Ratings** : Please Refer to Page 6**Result** : **PASS****Compiled by:**

Diamond Lu/ Administrators

Supervised by:

Kevin Huang/ RF Manager

Approved by:

Gavin Liang/ Manager



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RF Exposure Evaluation

Test Report No. : LCSA12255082EF	<u>February 25, 2026</u> Date of issue
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EUT.....	: Flat Panel Detector
Test Model.....	: MasterX903SW
Applicant.....	: Mediatech USA
Address.....	: 1245 N Patt St, Anaheim, CA 92801, United States
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Mediatech USA
Address.....	: 1245 N Patt St, Anaheim, CA 92801, United States
Telephone.....	: /
Fax.....	: /
Factory.....	: Mediatech USA
Address.....	: 1245 N Patt St, Anaheim, CA 92801, United States
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	February 25, 2026	Initial Issue	---





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1. Product Information

EUT	: Flat Panel Detector
Test Model	: MasterX903SW
Additional Model No.	: MasterX901SW, MasterX901HD, MasterX901UHD, MasterX901HGF, MasterX903HD, MasterX903UHD
Model Declaration	: The differences between the models are related to the physical characteristics of the module that converts X-rays into light. The differences lie in the scintillator specifications, such as pixel pitch and thickness. For one model (HGF), the scintillator cover is glass-free. The electrical characteristics, PCB board are the same for all models. So no additional models were tested
Ratings	: Input: 15.0V $\pm$ 3.0A/20.0V $\pm$ 3.25A Battery: 7.6V, 3000mAh, 22.8Wh For Adapter (model: ATN065A3-W200V) Input: 100-240V~ 50-60Hz 1.6-0.7A Output: 5.0V $\pm$ 3.0A/9.0V $\pm$ 3.0A/12.0V $\pm$ 3.0A/ 15.0V $\pm$ 3.0A/20.0V $\pm$ 3.25A(65.0W Max)
Hardware Version	: v3.3.5.4
Software Version	: v2.9.1
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)
Antenna Description	: Antenna 1: FPC Antenna, 4.25dBi (Max.) Antenna 2: FPC Antenna, 4.25dBi (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 channel for 80MHz bandwidth(5210MHz) 1 channel 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)
Antenna Description	: Antenna 1: FPC Antenna, 1.27dBi (Max.)





Antenna 2: FPC Antenna, 1.27dBi (Max.)

5.3G WLAN

Frequency Range	: 5250 MHz~5350MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5260MHz~5320MHz) 2 channels for 40MHz bandwidth(5270MHz~5310MHz) 1 channel for 80MHz bandwidth(5290MHz) 1 channel 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)
Antenna Description	: Antenna 1: FPC Antenna, 1.27dBi (Max.) Antenna 2: FPC Antenna, 1.27dBi (Max.)

5.5G WLAN

Frequency Range	: 5470-5725MHz
Channel Number	: 11 Channels for 20MHz bandwidth(5500MHz~5700MHz) 5 Channels for 40MHz bandwidth(5510MHz~5670MHz) 2 Channels for 80MHz bandwidth (5530MHz, 5610MHz) 1 channel for 160MHz bandwidth(5570MHz)
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)
Antenna Description	: Antenna 1: FPC Antenna, 1.27dBi (Max.) Antenna 2: FPC Antenna, 1.27dBi (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 channel 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)
Antenna Description	: Antenna 1: FPC Antenna, 0.82dBi (Max.) Antenna 2: FPC Antenna, 0.82dBi (Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Portable 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 and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f \text{ (GHz)}} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- a) The $\sum$ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg + $\sum$ of MPE ratios is ≤ 1.0 .
- b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the $\sum$ of MPE ratios is ≤ 1.0 .

3. Refer Evaluation Method

[ANSI C95.1–1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General 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 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices





4. Conducted Power Results

[2.4G WIFI]

Mode	Frequency (MHz)	Ant 1 Max Average Power(dBm)	Ant 2 Max Average Power(dBm)	MIMO Max Average Power(dBm)
IEEE 802.11b	2412	8.76	8.45	/
	2437	8.03	8.76	/
	2462	8.07	8.16	/
IEEE 802.11g	2412	8.01	8.46	/
	2437	7.70	8.27	/
	2462	8.90	8.11	/
IEEE 802.11n HT20	2412	7.86	8.34	10.93
	2437	7.65	8.22	10.95
	2462	8.40	8.92	11.49
IEEE 802.11n HT40	2422	8.01	8.63	10.96
	2437	7.87	7.71	10.42
	2452	8.11	7.37	10.41
IEEE 802.11ax HE20	2412	7.69	8.23	10.76
	2437	7.54	8.01	10.57
	2462	8.31	7.58	10.75
IEEE 802.11ax HE40	2422	8.03	8.39	10.82
	2437	7.75	7.36	10.17
	2452	8.71	7.12	10.59

[5.2G WIFI]

Mode	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)	MIMO Max Average Power(dBm)
IEEE 802.11a	5180	7.71	7.12	/
	5200	7.82	6.23	/
	5240	7.16	6.77	/
IEEE 802.11n HT20	5180	7.42	5.76	9.68
	5200	7.64	5.95	9.89
	5240	7.39	6.54	10.00
IEEE 802.11n HT40	5190	7.69	6.50	10.15
	5230	7.61	6.61	10.15
IEEE 802.11ac VHT20	5180	7.54	5.73	9.74
	5200	7.85	7.01	10.46
	5240	7.27	6.41	9.87
IEEE 802.11ac VHT40	5190	7.08	6.33	9.73
	5230	7.64	6.65	10.18
IEEE 802.11ac VHT80	5210	7.44	6.61	10.06
IEEE 802.11ac VHT160	5250	6.84	4.29	8.76
IEEE 802.11ax HE20	5180	7.49	5.57	9.65
	5200	7.80	5.89	9.96
	5240	7.14	6.13	9.67
IEEE 802.11ax HE40	5190	7.05	6.46	9.78
	5230	7.82	6.59	10.26
IEEE 802.11ax HE80	5210	7.66	7.25	10.47
IEEE 802.11ax HE160	5250	6.47	4.07	8.44





[5.3G WIFI]

Mode	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)	MIMO Max Average Power(dBm)
IEEE 802.11a	5260	7.33	4.93	/
	5300	7.50	5.92	/
	5320	6.95	6.28	/
IEEE 802.11n HT20	5260	6.97	4.74	10.31
	5300	7.16	5.89	10.41
	5320	6.59	6.07	10.15
IEEE 802.11n HT40	5270	7.75	6.13	10.42
	5310	7.27	6.55	10.23
IEEE 802.11ac VHT20	5260	7.14	4.87	10.42
	5300	7.24	6.22	10.45
	5320	7.15	6.29	10.40
IEEE 802.11ac VHT40	5270	7.59	5.10	10.35
	5310	7.48	5.34	10.31
IEEE 802.11ac VHT80	5290	7.43	6.43	10.65
IEEE 802.11ax HE20	5260	6.76	4.87	10.17
	5300	7.12	6.22	10.35
	5320	6.50	6.29	9.85
IEEE 802.11ax HE40	5270	7.60	5.10	10.79
	5310	7.23	5.34	10.56
IEEE 802.11ax HE80	5290	7.49	6.43	10.75

[5.5G WIFI]

Mode	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)	MIMO Max Average Power(dBm)
IEEE 802.11a	5500	6.12	3.63	/
	5580	6.16	6.32	/
	5700	6.08	6.42	/
IEEE 802.11n HT20	5500	6.15	6.79	9.49
	5580	6.30	6.03	9.18
	5700	6.80	6.63	9.73
IEEE 802.11n HT40	5510	6.50	6.59	9.56
	5550	6.46	6.67	9.58
	5670	6.19	6.99	9.62
IEEE 802.11ac VHT20	5500	6.12	6.49	9.32
	5580	5.79	6.01	8.91
	5700	6.54	6.72	9.64
IEEE 802.11ac VHT40	5510	6.71	6.88	9.81
	5550	4.48	6.78	8.79
	5670	6.79	6.17	9.50
IEEE 802.11ac VHT80	5530	5.87	6.27	9.08
	5610	5.81	6.33	9.09
IEEE 802.11ac VHT160	5570	4.61	5.61	8.15
IEEE 802.11ax HE20	5500	6.10	6.18	9.15
	5580	6.00	5.89	8.96
	5700	6.72	6.53	9.64
IEEE 802.11ax HE40	5510	6.27	6.74	9.52
	5550	6.39	6.25	9.33
	5670	6.25	6.05	9.16
IEEE 802.11ax HE80	5530	6.70	6.37	9.55
	5610	6.63	6.09	9.38
IEEE 802.11ax HE160	5570	5.08	5.21	8.16





[5.8G WIFI]

Mode	Frequency (MHz)	Ant 1 Max Conducted Power(dBm)	Ant 2 Max Conducted Power(dBm)	MIMO Max Average Power(dBm)
IEEE 802.11a	5745	6.43	5.54	/
	5785	6.48	6.61	/
	5825	6.27	6.77	/
IEEE 802.11n HT20	5745	5.19	5.41	8.31
	5785	6.49	6.64	9.58
	5825	6.27	6.79	9.55
IEEE 802.11n HT40	5755	5.80	6.28	9.06
	5795	6.23	6.41	9.33
IEEE 802.11ac VHT20	5745	5.29	5.85	8.59
	5785	5.52	6.51	9.05
	5825	5.13	6.50	8.88
IEEE 802.11ac VHT40	5755	6.02	6.35	9.20
	5795	6.18	6.95	9.59
IEEE 802.11ac VHT80	5775	6.27	6.05	9.17
IEEE 802.11ax HE20	5745	5.35	5.16	8.27
	5785	6.34	6.42	9.39
	5825	6.00	6.36	9.19
IEEE 802.11ax HE40	5755	5.94	6.17	9.07
	5795	6.22	6.77	9.51
IEEE 802.11ax HE80	5775	6.06	6.37	9.23



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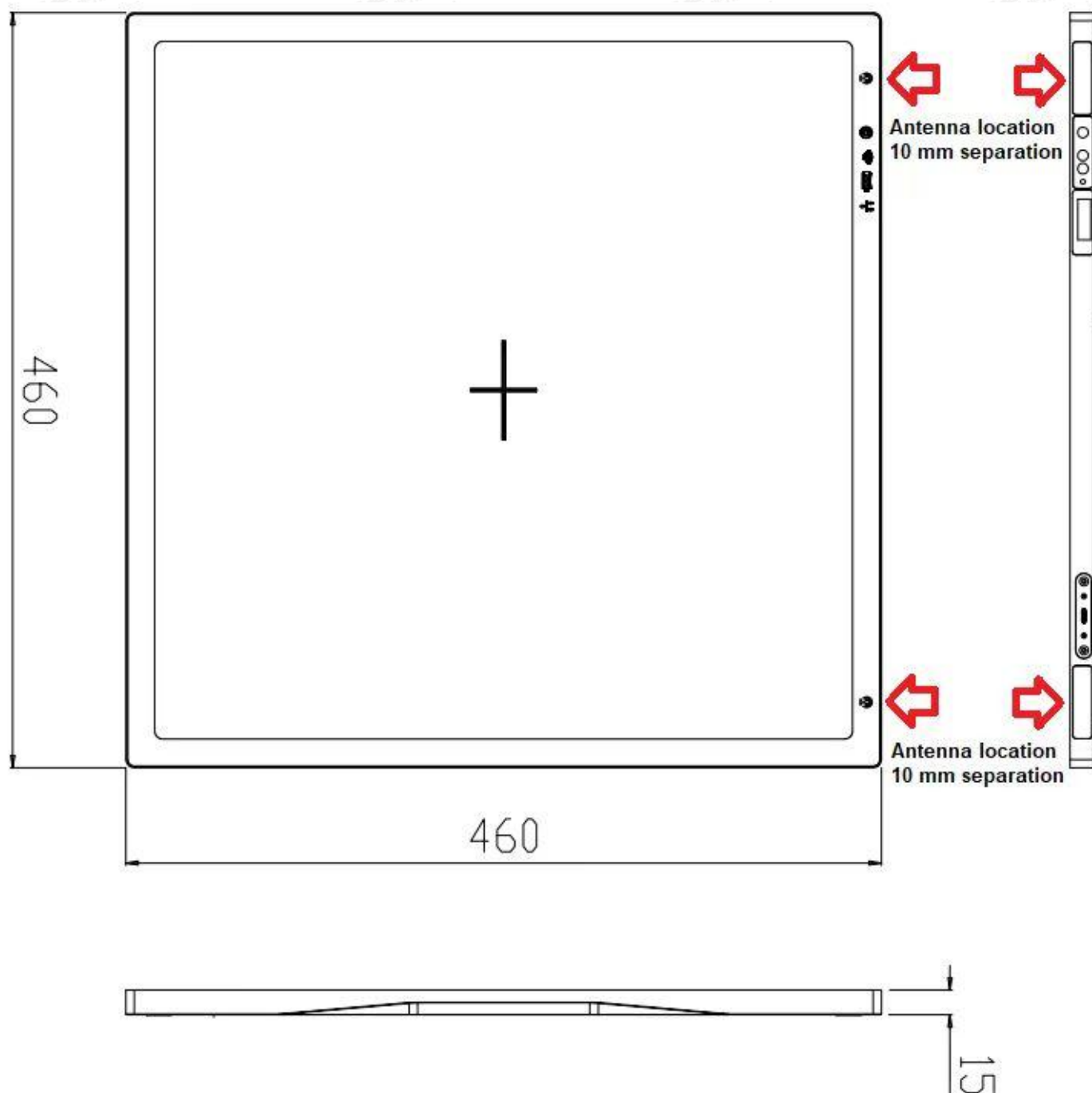
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5. Antenna Position





6. Manufacturing Tolerance

[2.4G WIFI Ant 1]

IEEE 802.11b (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	7.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	7.0	7.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	8.0	7.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	7.0	7.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	8.0	7.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[2.4G WIFI Ant 2]

IEEE 802.11b (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11g (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	8.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0





IEEE 802.11ax HE20 (Average)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	8.0	8.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	8.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

[5.2G WIFI Ant 1]

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	7.0	7.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 38	Channel 46	
Target (dBm)	7.0	7.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42		
Target (dBm)	7.0		
Tolerance $\pm$ (dB)	1.0		
IEEE 802.11ac VHT160 (Average)			
Channel	Channel 50		
Target (dBm)	6.0		
Tolerance $\pm$ (dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 38	Channel 46	





Target (dBm)	7.0	7.0
Tolerance ±(dB)	1.0	1.0
IEEE 802.11ax HE80 (Average)		
Channel	Channel 42	
Target (dBm)	7.0	
Tolerance ±(dB)	1.0	
IEEE 802.11ax HE160 (Average)		
Channel	Channel 50	
Target (dBm)	6.0	
Tolerance ±(dB)	1.0	

[5.2G WIFI Ant 2]

IEEE 802.11a (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	7.0	6.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	5.0	5.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 38		Channel 46
Target (dBm)	6.0		6.0
Tolerance ±(dB)	1.0		1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	5.0	7.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channe 38		Channel 46
Target (dBm)	6.0		6.0
Tolerance ±(dB)	1.0		1.0
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 42		
Target (dBm)	6.0		
Tolerance ±(dB)	1.0		
IEEE 802.11ac VHT160 (Average)			
Channel	Channel 50		
Target (dBm)	4.0		
Tolerance ±(dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 36	Channel 40	Channel 48
Target (dBm)	5.0	5.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0





IEEE 802.11ax HE40 (Average)		
Channel	Channe 38	Channel 46
Target (dBm)	6.0	6.0
Tolerance ±(dB)	1.0	1.0
IEEE 802.11ax HE80 (Average)		
Channel	Channel 42	
Target (dBm)	7.0	
Tolerance ±(dB)	1.0	
IEEE 802.11ax HE160 (Average)		
Channel	Channel 50	
Target (dBm)	4.0	
Tolerance ±(dB)	1.0	

[5.3G WIFI Ant 1]

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	7.0	7.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	6.0	7.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	7.0	7.0	
Tolerance ± (dB)	1.0	1.0	
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	7.0	7.0	7.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	7.0	7.0	
Tolerance ± (dB)	1.0	1.0	
IEEE 802.11ac VHT80(Average)			
Channel	Channel 58		
Target (dBm)	7.0		
Tolerance ± (dB)	1.0		
IEEE 802.11ac VHT160(Average)			
Channel	Channel 50		
Target (dBm)	6.0		
Tolerance ± (dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	6.0	7.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			





Channel	Channel 54	Channel 62
Target (dBm)	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0
IEEE 802.11ax HE80(Average)		
Channel	Channel 58	
Target (dBm)	7.0	
Tolerance $\pm$ (dB)	1.0	
IEEE 802.11ax HE160(Average)		
Channel	Channel 50	
Target (dBm)	6.0	
Tolerance $\pm$ (dB)	1.0	

[5.3G WIFI Ant 2]

IEEE 802.11a (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	7.0	7.0	5.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	7.0	7.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	7.0	7.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT80(Average)			
Channel	Channel 58		
Target (dBm)	7.0		
Tolerance $\pm$ (dB)	1.0		
IEEE 802.11ac VHT160(Average)			
Channel	Channel 50		
Target (dBm)	4.0		
Tolerance $\pm$ (dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 52	Channel 60	Channel 64
Target (dBm)	7.0	7.0	7.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 54	Channel 62	
Target (dBm)	7.0	7.0	
Tolerance $\pm$ (dB)	1.0	1.0	





IEEE 802.11ax HE80(Average)	
Channel	Channel 58
Target (dBm)	7.0
Tolerance $\pm$ (dB)	1.0
IEEE 802.11ax HE160(Average)	
Channel	Channel 50
Target (dBm)	4.0
Tolerance $\pm$ (dB)	1.0

[5.5G WIFI Ant 1]

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	6.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	6.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	6.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	6.0	5.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac ac VHT40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	6.0	4.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT80(Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	5.0	5.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT160(Average)			
Channel	Channel 114		
Target (dBm)	4.0		
Tolerance $\pm$ (dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	6.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	6.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE80(Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	6.0	6.0	





Tolerance $\pm$ (dB)	1.0	1.0
IEEE 802.11ax HE160(Average)		
Channel	Channel 114	
Target (dBm)	5.0	
Tolerance $\pm$ (dB)	1.0	

[5.5G WIFI Ant 2]

IEEE 802.11a (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	3.0	6.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	6.0	6.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	6.0	6.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	6.0	6.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	6.0	6.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT80(Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	6.0	6.0	
Tolerance ± (dB)	1.0	1.0	
IEEE 802.11ac VHT160(Average)			
Channel	Channel 114		
Target (dBm)	5.0		
Tolerance ± (dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 100	Channel 116	Channel 140
Target (dBm)	6.0	5.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 102	Channel 110	Channel 134
Target (dBm)	6.0	6.0	6.0
Tolerance ± (dB)	1.0	1.0	1.0
IEEE 802.11ax HE80(Average)			
Channel	Channel 106	Channel 122	
Target (dBm)	6.0	6.0	
Tolerance ± (dB)	1.0	1.0	
IEEE 802.11ax HE160(Average)			
Channel	Channel 114		





Target (dBm)	5.0
Tolerance $\pm$ (dB)	1.0

[5.8G WIFI Ant 1]

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	6.0	6.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	5.0	6.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151		Channel 159
Target (dBm)	5.0		6.0
Tolerance ±(dB)	1.0		1.0
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	5.0	5.0	5.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151		Channel 159
Target (dBm)	6.0		6.0
Tolerance ±(dB)	1.0		1.0
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155		
Target (dBm)	6.0		
Tolerance ±(dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	5.0	6.0	6.0
Tolerance ±(dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151		Channel 159
Target (dBm)	5.0		6.0
Tolerance ±(dB)	1.0		1.0
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155		
Target (dBm)	6.0		
Tolerance ±(dB)	1.0		

[5.8G WIFI Ant 2]

IEEE 802.11a (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	5.0	6.0	6.0





Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	5.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11n HT40 (Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	6.0	6.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	5.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ac VHT40 (Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	6.0	6.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ac VHT80 (Average)			
Channel	Channel 155		
Target (dBm)	6.0		
Tolerance $\pm$ (dB)	1.0		
IEEE 802.11ax HE20 (Average)			
Channel	Channel 149	Channel 157	Channel 165
Target (dBm)	5.0	6.0	6.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
IEEE 802.11ax HE40 (Average)			
Channel	Channel 151	Channel 159	
Target (dBm)	6.0	6.0	
Tolerance $\pm$ (dB)	1.0	1.0	
IEEE 802.11ax HE80 (Average)			
Channel	Channel 155		
Target (dBm)	6.0		
Tolerance $\pm$ (dB)	1.0		





6. Evaluation Results

6.1 Standalone Evaluation

[2.4G WIFI Ant 1]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11b	2.462	10	9.0	7.9433	1.2464< 3.0	0.1662	0.1039
IEEE 802.11g	2.462	10	9.0	7.9433	1.2464< 3.0	0.1662	0.1039
IEEE 802.11n HT20	2.462	10	9.0	7.9433	1.2464< 3.0	0.1662	0.1039
IEEE 802.11n HT40	2.452	10	9.0	7.9433	1.2438< 3.0	0.1658	0.1036
IEEE 802.11ax HE20	2.462	10	9.0	7.9433	1.2464< 3.0	0.1662	0.1039
IEEE 802.11ax HE40	2.452	10	9.0	7.9433	1.2438< 3.0	0.1658	0.1036

[2.4G WIFI Ant 2]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11b	2.462	10	9.0	7.9433	1.2464< 3.0	0.1662	0.1039
IEEE 802.11g	2.462	10	9.0	7.9433	1.2464< 3.0	0.1662	0.1039
IEEE 802.11n HT20	2.462	10	9.0	7.9433	1.2464< 3.0	0.1662	0.1039
IEEE 802.11n HT40	2.422	10	9.0	7.9433	1.2362< 3.0	0.1648	0.1030
IEEE 802.11ax HE20	2.437	10	9.0	7.9433	1.2400< 3.0	0.1653	0.1033
IEEE 802.11ax HE40	2.422	10	9.0	7.9433	1.2362< 3.0	0.1648	0.1030

[5.2G WIFI Ant 1]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.240	10	8.0	6.3096	1.4443< 3.0	0.1926	0.1204
IEEE 802.11n HT20	5.240	10	8.0	6.3096	1.4443< 3.0	0.1926	0.1204
IEEE 802.11n HT40	5.230	10	8.0	6.3096	1.4429< 3.0	0.1924	0.1203
IEEE 802.11ac VHT20	5.240	10	8.0	6.3096	1.4443< 3.0	0.1926	0.1204
IEEE 802.11ac VHT40	5.230	10	8.0	6.3096	1.4429< 3.0	0.1924	0.1203
IEEE 802.11ac VHT80	5.210	10	8.0	6.3096	1.4402< 3.0	0.1920	0.1200
IEEE 802.11ac VHT160	5.250	10	7.0	5.0119	1.1484< 3.0	0.1531	0.0957
IEEE 802.11ax HE20	5.240	10	8.0	6.3096	1.4443< 3.0	0.1926	0.1204
IEEE 802.11ax HE40	5.230	10	8.0	6.3096	1.4429< 3.0	0.1924	0.1203
IEEE 802.11ax HE80	5.210	10	8.0	6.3096	1.4402< 3.0	0.1920	0.1200
IEEE 802.11ax HE160	5.250	10	7.0	5.0119	1.1484< 3.0	0.1531	0.0957





[5.2G WIFI Ant 2]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.180	10	8.0	6.3096	1.4360< 3.0	0.1915	0.1197
IEEE 802.11n HT20	5.240	10	7.0	5.0119	1.1473< 3.0	0.1530	0.0956
IEEE 802.11n HT40	5.230	10	7.0	5.0119	1.1462< 3.0	0.1528	0.0955
IEEE 802.11ac VHT20	5.200	10	8.0	6.3096	1.4388< 3.0	0.1918	0.1199
IEEE 802.11ac VHT40	5.230	10	7.0	5.0119	1.1462< 3.0	0.1528	0.0955
IEEE 802.11ac VHT80	5.210	10	7.0	5.0119	1.1440< 3.0	0.1525	0.0953
IEEE 802.11ac VHT160	5.250	10	5.0	3.1623	0.7246< 3.0	0.0966	0.0604
IEEE 802.11ax HE20	5.240	10	7.0	5.0119	1.1473< 3.0	0.1530	0.0956
IEEE 802.11ax HE40	5.230	10	7.0	5.0119	1.1462< 3.0	0.1528	0.0955
IEEE 802.11ax HE80	5.210	10	8.0	6.3096	1.4402< 3.0	0.1920	0.1200
IEEE 802.11ax HE160	5.250	10	5.0	3.1623	0.7246< 3.0	0.0966	0.0604

[5.3G WIFI Ant 1]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.280	10	8.0	6.3096	1.4498< 3.0	0.1933	0.1208
IEEE 802.11n HT20	5.280	10	8.0	6.3096	1.4498< 3.0	0.1933	0.1208
IEEE 802.11n HT40	5.310	10	8.0	6.3096	1.4539< 3.0	0.1939	0.1212
IEEE 802.11ac VHT20	5.320	10	8.0	6.3096	1.4553< 3.0	0.1940	0.1213
IEEE 802.11ac VHT40	5.310	10	8.0	6.3096	1.4539< 3.0	0.1939	0.1212
IEEE 802.11ac VHT80	5.290	10	8.0	6.3096	1.4512< 3.0	0.1935	0.1209
IEEE 802.11ax HE20	5.280	10	8.0	6.3096	1.4498< 3.0	0.1933	0.1208
IEEE 802.11ax HE40	5.310	10	8.0	6.3096	1.4539< 3.0	0.1939	0.1212
IEEE 802.11ax HE80	5.290	10	8.0	6.3096	1.4512< 3.0	0.1935	0.1209

[5.3G WIFI Ant 2]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.280	10	8.0	6.3096	1.4498< 3.0	0.1933	0.1208
IEEE 802.11n HT20	5.320	10	8.0	6.3096	1.4553< 3.0	0.1940	0.1213
IEEE 802.11n HT40	5.310	10	8.0	6.3096	1.4539< 3.0	0.1939	0.1212
IEEE 802.11ac VHT20	5.320	10	8.0	6.3096	1.4553< 3.0	0.1940	0.1213
IEEE 802.11ac VHT40	5.310	10	8.0	6.3096	1.4539< 3.0	0.1939	0.1212
IEEE 802.11ac VHT80	5.290	10	8.0	6.3096	1.4512< 3.0	0.1935	0.1209
IEEE 802.11ax HE20	5.320	10	8.0	6.3096	1.4553< 3.0	0.1940	0.1213
IEEE 802.11ax HE40	5.310	10	8.0	6.3096	1.4539< 3.0	0.1939	0.1212
IEEE 802.11ax HE80	5.290	10	8.0	6.3096	1.4512< 3.0	0.1935	0.1209





[5.5G WIFI Ant 1]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11n HT20	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11n HT40	5.670	10	7.0	5.0119	1.1934< 3.0	0.1591	0.0994
IEEE 802.11ac VHT20	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11ac VHT40	5.670	10	7.0	5.0119	1.1934< 3.0	0.1591	0.0994
IEEE 802.11ac VHT80	5.610	10	6.0	3.9811	0.9429< 3.0	0.1257	0.0786
IEEE 802.11ac VHT160	5.570	10	5.0	3.1623	0.7463< 3.0	0.0995	0.0622
IEEE 802.11ax HE20	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11ax HE40	5.670	10	7.0	5.0119	1.1934< 3.0	0.1591	0.0994
IEEE 802.11ax HE80	5.610	10	7.0	5.0119	1.1871< 3.0	0.1583	0.0989
IEEE 802.11ax HE160	5.570	10	5.0	3.1623	0.7463< 3.0	0.0995	0.0622

[5.5G WIFI Ant 2]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11n HT20	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11n HT40	5.670	10	7.0	5.0119	1.1934< 3.0	0.1591	0.0994
IEEE 802.11ac VHT20	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11ac VHT40	5.670	10	7.0	5.0119	1.1934< 3.0	0.1591	0.0994
IEEE 802.11ac VHT80	5.610	10	7.0	5.0119	1.1871< 3.0	0.1583	0.0989
IEEE 802.11ac VHT160	5.570	10	6.0	3.9811	0.9396< 3.0	0.1253	0.0783
IEEE 802.11ax HE20	5.700	10	7.0	5.0119	1.1966< 3.0	0.1595	0.0997
IEEE 802.11ax HE40	5.670	10	7.0	5.0119	1.1934< 3.0	0.1591	0.0994
IEEE 802.11ax HE80	5.610	10	7.0	5.0119	1.1871< 3.0	0.1583	0.0989
IEEE 802.11ax HE160	5.570	10	6.0	3.9811	0.9396< 3.0	0.1253	0.0783





[5.8G WIFI Ant 1]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.825	10	7.0	5.0119	1.2096< 3.0	0.1613	0.1008
IEEE 802.11n HT20	5.825	10	7.0	5.0119	1.2096< 3.0	0.1613	0.1008
IEEE 802.11n HT40	5.795	10	7.0	5.0119	1.2065< 3.0	0.1609	0.1006
IEEE 802.11ac VHT20	5.825	10	6.0	3.9811	0.9608< 3.0	0.1281	0.0801
IEEE 802.11ac VHT40	5.795	10	7.0	5.0119	1.2065< 3.0	0.1609	0.1006
IEEE 802.11ac VHT80	5.775	10	7.0	5.0119	1.2044< 3.0	0.1606	0.1004
IEEE 802.11ax HE20	5.825	10	7.0	5.0119	1.2096< 3.0	0.1613	0.1008
IEEE 802.11ax HE40	5.795	10	7.0	5.0119	1.2065< 3.0	0.1609	0.1006
IEEE 802.11ax HE80	5.775	10	7.0	5.0119	1.2044< 3.0	0.1606	0.1004

[5.8G WIFI Ant 2]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Standalone SAR (W/kg)	Ratios
			dBm	mW			
IEEE 802.11a	5.825	10	7.0	5.0119	1.2096< 3.0	0.1613	0.1008
IEEE 802.11n HT20	5.825	10	7.0	5.0119	1.2096< 3.0	0.1613	0.1008
IEEE 802.11n HT40	5.795	10	7.0	5.0119	1.2065< 3.0	0.1609	0.1006
IEEE 802.11ac VHT20	5.825	10	7.0	5.0119	1.2096< 3.0	0.1613	0.1008
IEEE 802.11ac VHT40	5.795	10	7.0	5.0119	1.2065< 3.0	0.1609	0.1006
IEEE 802.11ac VHT80	5.775	10	7.0	5.0119	1.2044< 3.0	0.1606	0.1004
IEEE 802.11ax HE20	5.825	10	7.0	5.0119	1.2096< 3.0	0.1613	0.1008
IEEE 802.11ax HE40	5.795	10	7.0	5.0119	1.2065< 3.0	0.1609	0.1006
IEEE 802.11ax HE80	5.775	10	7.0	5.0119	1.2044< 3.0	0.1606	0.1004

[2.4G WIFI MIMO]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
IEEE 802.11n HT20	2.450	10	12.01	15.8866	2.5119< 3.0	Yes
IEEE 802.11n HT40	2.450	10	12.01	15.8866	2.5119< 3.0	Yes
IEEE 802.11ax HE20	2.450	10	12.01	15.8866	2.5119< 3.0	Yes
IEEE 802.11ax HE40	2.450	10	12.01	15.8866	2.5119< 3.0	Yes





[5.2G WIFI MIMO]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
IEEE 802.11n HT20	5.250	10	10.54	11.3214	2.5941< 3.0	Yes
IEEE 802.11n HT40	5.250	10	10.54	11.3214	2.5941< 3.0	Yes
IEEE 802.11ac VHT20	5.250	10	11.01	12.6191	2.8914< 3.0	Yes
IEEE 802.11ac VHT40	5.250	10	10.54	11.3214	2.5941< 3.0	Yes
IEEE 802.11ac VHT80	5.250	10	10.54	11.3214	2.5941< 3.0	Yes
IEEE 802.11ac VHT160	5.250	10	9.12	8.1741	1.8729< 3.0	Yes
IEEE 802.11ax HE20	5.250	10	10.54	11.3214	2.5941< 3.0	Yes
IEEE 802.11ax HE40	5.250	10	10.54	11.3214	2.5941< 3.0	Yes
IEEE 802.11ax HE80	5.250	10	11.01	12.6191	2.8914< 3.0	Yes
IEEE 802.11ax HE160	5.250	10	9.12	8.1741	1.8729< 3.0	Yes

[5.3G WIFI MIMO]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
IEEE 802.11n HT20	5.350	10	11.01	12.6191	2.9188< 3.0	Yes
IEEE 802.11n HT40	5.350	10	11.01	12.6191	2.9188< 3.0	Yes
IEEE 802.11ac VHT20	5.350	10	11.01	12.6191	2.9188< 3.0	Yes
IEEE 802.11ac VHT40	5.350	10	11.01	12.6191	2.9188< 3.0	Yes
IEEE 802.11ac VHT80	5.350	10	11.01	12.6191	2.9188< 3.0	Yes
IEEE 802.11ax HE20	5.350	10	11.01	12.6191	2.9188< 3.0	Yes
IEEE 802.11ax HE40	5.350	10	11.01	12.6191	2.9188< 3.0	Yes
IEEE 802.11ax HE80	5.350	10	11.01	12.6191	2.9188< 3.0	Yes

[5.5G WIFI MIMO]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
IEEE 802.11n HT20	5.500	10	10.01	10.0237	2.3931< 3.0	Yes
IEEE 802.11n HT40	5.510	10	10.01	10.0237	2.3931< 3.0	Yes
IEEE 802.11ac VHT20	5.500	10	10.01	10.0237	2.3931< 3.0	Yes
IEEE 802.11ac VHT40	5.510	10	10.01	10.0237	2.3931< 3.0	Yes
IEEE 802.11ac VHT80	5.610	10	9.54	8.9929	2.1470< 3.0	Yes
IEEE 802.11ac VHT160	5.570	10	8.54	7.1433	1.7055< 3.0	Yes
IEEE 802.11ax HE20	5.500	10	10.01	10.0237	2.3931< 3.0	Yes
IEEE 802.11ax HE40	5.510	10	10.01	10.0237	2.3931< 3.0	Yes
IEEE 802.11ax HE80	5.610	10	10.01	10.0237	2.3931< 3.0	Yes
IEEE 802.11ax HE160	5.570	10	8.54	7.1433	1.7055< 3.0	Yes





[5.8G WIFI MIMO]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
IEEE 802.11n HT20	5.745	10	10.01	10.0237	2.4244< 3.0	Yes
IEEE 802.11n HT40	5.755	10	10.01	10.0237	2.4244< 3.0	Yes
IEEE 802.11ac VHT20	5.745	10	9.54	8.9929	2.1751< 3.0	Yes
IEEE 802.11ac VHT40	5.755	10	10.01	10.0237	2.4244< 3.0	Yes
IEEE 802.11ac VHT80	5.775	10	10.01	10.0237	2.4244< 3.0	Yes
IEEE 802.11ax HE20	5.745	10	10.01	10.0237	2.4244< 3.0	Yes
IEEE 802.11ax HE40	5.755	10	10.01	10.0237	2.4244< 3.0	Yes
IEEE 802.11ax HE80	5.775	10	10.01	10.0237	2.4244< 3.0	Yes

Remark:

1. Output power including tune up tolerance;
2. The minimum test separation distance is 10 mm, according to the manufacturer's declaration in the user manual;

6.2 Simultaneous Transmission

The sample support two WLAN antenna, so need consider simultaneous transmission;
According to KDB447498 for Transmitters for simultaneous transmission operations;
Limit: $\sum$ of SAR standalone ratios is ≤ 1.0

Mode	Ant1 Max ratios	Ant 2 Max ratios	Simultaneous ratios	Limit	Results
Ant1+ Ant2	0.1213	0.1213	0.2426	1.0	PASS

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

8. 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.

9. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	$\pm 0.57\text{dB}$	(1)

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

.....THE END OF REPORT.....

