

RF EXPOSURE EVALUATION REPORT

Product Name: Wireless Communication Base
Trade Mark: PAX
Model No.: L920MAX-BE
Report Number: 25101420269RFC-5
Test Standards: FCC 47 CFR Part 1 Subpart I
RSS-102 Issue 6
FCC ID: V5PL920MAXBE
IC: 11689A-L920MAXBE
Test Result: PASS
Date of Issue: December 8, 2025

Prepared for:

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Version

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	PAX Technology Limited
Address of Applicant:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong
Manufacturer:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

1.2 EUT INFORMATION

Product Name:	Wireless Communication Base		
Model No.:	L920MAX-BE		
Trade Mark:	PAX		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth V5.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
Sample Received Date:	October 14, 2025		

Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

For BT_LE	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth LE/2LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type:	FPC Antenna
Antenna Gain: (Provided by the customer)	1.22 dBi
Maximum Peak Power:	5.18 dBm

For BT_EDR	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth BR + EDR
Modulation Technique:	Frequency Hopping Spread Spectrum (FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Channel Separation:	1 MHz
Hopping Channel Type:	Adaptive Frequency Hopping Systems
Antenna Type: (Provided by the customer)	FPC Antenna

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Antenna Gain: (Provided by the customer)	1.22 dBi
Maximum Peak Power:	7.01 dBm

For 2.4 GHz ISM Band of Wi-Fi	
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b/g/n-HT20/n-HT40/ax-HE20/ax-HE40
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7
Number of Channels:	IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11
Channel Separation:	5 MHz
Antenna Type:	FPC Antenna
Antenna Gain: (Provided by the customer)	1.22 dBi
Maximum Peak Power:	IEEE 802.11b: 19.59 dBm IEEE 802.11g: 23.00 dBm IEEE 802.11n-HT20: 19.54 dBm
Maximum e.i.r.p	IEEE 802.11b: 20.81 dBm IEEE 802.11g: 24.22 dBm IEEE 802.11n-HT20: 20.76 dBm

For 5 GHz U-NII Bands of Wi-Fi	
Frequency Bands:	5150 MHz to 5250 MHz (U-NII-1)
	5250 MHz to 5350 MHz (U-NII-2A)
	5470 MHz to 5730 MHz (U-NII-2C) ^{Note1}
	5730 MHz to 5850 MHz (U-NII-3)
Frequency Ranges:	5180 MHz to 5240 MHz
	5260 MHz to 5320 MHz
	5500 MHz to 5700 MHz
	5745 MHz to 5825 MHz
Support Standards:	IEEE 802.11a/n/ac
TPC Function:	Not Support
DFS Operational mode:	Slave without radar Interference detection function
Type of Modulation:	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)
Channel Spacing:	IEEE 802.11a/n-HT20/ac-VHT20: 20 MHz
	IEEE 802.11n-HT40/ac-VHT40: 40 MHz
	IEEE 802.11ac-VHT80: 80 MHz
Data Rate:	IEEE 802.11a: Up to 54 Mbps
	IEEE 802.11n-HT20: Up to MCS7
	IEEE 802.11n-HT40: Up to MCS7
	IEEE 802.11ac-VHT20: Up to MCS8

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Number of Channels:	IEEE 802.11ac-VHT40: Up to MCS9				
	IEEE 802.11ac-VHT80: Up to MCS9				
	5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11ac-VHT80				
	5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n-HT20/ac-VHT20 2 for IEEE 802.11n-HT40/ac-VHT40 1 for IEEE 802.11ac-VHT80				
Antenna Type:	FPC Antenna				
	5150 MHz to 5250 MHz: -1.83 dBi				
	5250 MHz to 5350 MHz: -1.85 dBi				
	5470 MHz to 5730 MHz: 0.95 dBi				
Antenna Gain: (Provided by the customer)	5730 MHz to 5850 MHz: 1.11 dBi				
		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	16.31	16.17	16.5	13.42
	IEEE 802.11n-HT20:	15.77	15.89	16.02	12.99
Maximum conducted output power (dBm):	IEEE 802.11n-HT40:	15.81	15.72	16.33	12.93
	IEEE 802.11ac-VHT20	15.98	15.97	15.96	12.98
	IEEE 802.11ac-VHT40	15.78	15.69	16.77	12.92
	IEEE 802.11ac-VHT80	15.55	15.37	16.02	12.43
Maximum EIRP (dBm):		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
	IEEE 802.11a:	14.48	14.32	17.45	14.53
	IEEE 802.11n-HT20:	13.94	14.04	16.97	14.1
	IEEE 802.11n-HT40:	13.98	13.87	17.28	14.04
	IEEE 802.11ac-VHT20	14.15	14.12	16.91	14.09
	IEEE 802.11ac-VHT40	13.95	13.84	17.72	14.03
	IEEE 802.11ac-VHT80	13.72	13.52	16.97	13.54
Note:					
1. The device (subject to RSS-247) shall not be capable of transmitting within the band 5600-5650 MHz					

1.4 OTHER INFORMATION

Test channels for BT_LE				
Type of Modulation	Tx/Rx Frequency	Test RF Channel Lists		
GFSK	2402 MHz to 2480 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 0	Channel 19	Channel 39
		2402 MHz	2440 MHz	2480 MHz

Test channels for BT_EDR				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
GFSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 0	Channel 39	Channel 78
$\pi/4$ DQPSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz
8DPSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz

Test channels for 2.4 GHz ISM Band of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
IEEE 802.11b	2412 MHz to 2462 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 1	Channel 6	Channel 11
IEEE 802.11g	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n-HT20	2412 MHz to 2462 MHz	Channel 1	Channel 6	Channel 11
		2412 MHz	2437 MHz	2462 MHz

Test channels for 5 GHz U-NII Bands of Wi-Fi				
Mode	Tx/Rx Frequency	Test RF Channel Lists		
IEEE 802.11a IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5150 MHz to 5250 MHz	Lowest(L)	Middle(M)	Highest(H)
		Channel 36	Channel 44	Channel 48
	5250 MHz to 5350 MHz	5180 MHz	5220 MHz	5240 MHz
		Channel 52	Channel 60	Channel 64
	5470 MHz to 5725 MHz	5260 MHz	5300 MHz	5320 MHz
		Channel 100	Channel 116	Channel 140
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5150 MHz to 5250 MHz	5500 MHz	5580 MHz	5700 MHz
		Channel 149	Channel 157	Channel 165
	5250 MHz to 5350 MHz	5745 MHz	5785 MHz	5825 MHz
		Channel 38	--	Channel 46
	5470 MHz to 5725 MHz	5190 MHz	--	5230 MHz
		Channel 54	--	Channel 62
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5725 MHz to 5850 MHz	5270 MHz	--	5310 MHz
		Channel 102	Channel 110	Channel 134
	5725 MHz to 5850 MHz	5510 MHz	5550 MHz	5670 MHz
		Channel 151	--	Channel 159
IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5725 MHz to 5850 MHz	5755 MHz	--	5795 MHz
		5755 MHz	--	5795 MHz

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IEEE 802.11ac-VHT80	5150 MHz to 5250 MHz	--	Channel 42	--
		--	5210 MHz	--
	5250 MHz to 5350 MHz	--	Channel 58	--
		--	5290 MHz	--
	5470 MHz to 5725 MHz	Channel 106	--	--
		5530 MHz	--	--
	5725 MHz to 5850 MHz	--	Channel 155	--
		--	5775 MHz	--

1.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR Part 1 Subpart I
RSS-102 Issue 6

All test items have been performed and recorded as per the above standards

1.6 DEVIATION FROM STANDARDS

None.

1.7 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

2. EQUIPMENT LIST

Please refer to the RF test report.

3. MPE EVALUATION

3.1 REFERENCE DOCUMENTS FOR EVALUATION

No.	Identity	Document Title
1	FCC 47 CFR Part 1 Subpart I	PROCEDURES IMPLEMENTING THE NATIONAL ENVIRONMENTAL POLICY ACT OF 1969
2	RSS-102 Issue 6	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
3	KDB 447498 D01 General RF Exposure Guidance v06	RF EXPOSURE PROCEDURES AND EQUIPMENT AUTHORIZATION POLICIES FOR MOBILE AND PORTABLE DEVICES

3.2 MPE COMPLIANCE REQUIREMENT

3.2.1 Limits

3.2.1.1 FCC 47 CFR Part 1 Subpart I

According to §1.1307(b)(1), system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2.1.2 RSS-102 Issue 6

According to RSS-102 Issue 6, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

According to RSS-102 Issue 6, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

- below 20 MHz⁶ and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);
- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f^{0.5}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the e.i.r.p. was derived.

3.2.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.3 MPE CALCULATION METHOD

FCC 47 CFR Part 1 Subpart I

$$S = PG/4\pi R^2 = EIRP/4\pi R^2$$

S = power density (in appropriate units, e.g., mw/cm²)

P = power input to the antenna (in appropriate units, e.g., mw)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = 20cm, distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

3.4 MPE CALCULATION RESULTS

Note: For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

3.4.1 For WLAN

For Wi-Fi function, operating at 2412MHz to 2462 MHz for IEEE802.11b/g/n and
operating at 5150 MHz to 5250 MHz for IEEE802.11a/n/ac and
operating at 5250 MHz to 5350 MHz for IEEE802.11a/n/ac and
operating at 5470 MHz to 5725 MHz for IEEE802.11a/n/ac and
operating at 5725 MHz to 5850 MHz for IEEE802.11a/n/ac.

3.4.1.1 Antenna Type:

FPC Antenna

3.4.1.2 Antenna Gain:

2412MHz to 2462 MHz: 1.22 dBi

5150 MHz to 5250 MHz: -1.83 dBi

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5250 MHz to 5350 MHz: -1.85 dBi

5470 MHz to 5725 MHz: 0.95 dBi

5725 MHz to 5850 MHz: 1.11 dBi

3.4.1.3 Results for FCC 47 CFR Part 1 Subpart I

Operating Mode		Freq.	Declared maximum conducted output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
		(MHz)	(dBm)		(dBi)	(dBm)	(mW)	(mw/cm ²)	
SISO	IEEE 802.11b	2412	19	1	1.22	21.22	132.4342	1	0.0263
		2437	19	1	1.22	21.22	132.4342	1	0.0263
		2462	19	1	1.22	21.22	132.4342	1	0.0263
	IEEE 802.11g	2412	22	1	1.22	24.22	264.2409	1	0.0526
		2437	22	1	1.22	24.22	264.2409	1	0.0526
		2462	22	1	1.22	24.22	264.2409	1	0.0526
	IEEE 802.11n-HT20	2412	19	1	1.22	21.22	132.4342	1	0.0263
		2437	19	1	1.22	21.22	132.4342	1	0.0263
		2462	19	1	1.22	21.22	132.4342	1	0.0263
	IEEE 802.11a	5180	16	1	-1.83	15.17	32.8852	1	0.0065
		5220	16	1	-1.83	15.17	32.8852	1	0.0065
		5240	16	1	-1.83	15.17	32.8852	1	0.0065
		5260	16	1	-1.85	15.15	32.7341	1	0.0065
		5300	16	1	-1.85	15.15	32.7341	1	0.0065
		5320	16	1	-1.85	15.15	32.7341	1	0.0065
		5500	16	1	0.95	17.95	62.3735	1	0.0124
		5600	16	1	0.95	17.95	62.3735	1	0.0124
		5700	16	1	0.95	17.95	62.3735	1	0.0124
		5745	13	1	1.11	15.11	32.4340	1	0.0065
		5785	13	1	1.11	15.11	32.4340	1	0.0065
		5825	13	1	1.11	15.11	32.4340	1	0.0065
	IEEE 802.11n-HT20 802.11ac-VHT20	5180	16	1	-1.83	15.17	32.8852	1	0.0065
		5220	16	1	-1.83	15.17	32.8852	1	0.0065
		5240	16	1	-1.83	15.17	32.8852	1	0.0065
		5260	16	1	-1.85	15.15	32.7341	1	0.0065
		5300	16	1	-1.85	15.15	32.7341	1	0.0065
		5320	16	1	-1.85	15.15	32.7341	1	0.0065
		5500	16	1	0.95	17.95	62.3735	1	0.0124
		5600	16	1	0.95	17.95	62.3735	1	0.0124
		5700	16	1	0.95	17.95	62.3735	1	0.0124
		5745	13	1	1.11	15.11	32.4340	1	0.0065
		5785	13	1	1.11	15.11	32.4340	1	0.0065
		5825	13	1	1.11	15.11	32.4340	1	0.0065
SISO	IEEE 802.11n-HT40 IEEE 802.11ac-VHT40	5190	16	1	-1.83	15.17	32.8852	1	0.0065
		5230	16	1	-1.83	15.17	32.8852	1	0.0065
		5270	16	1	-1.85	15.15	32.7341	1	0.0065
		5310	16	1	-1.85	15.15	32.7341	1	0.0065
		5510	16	1	0.95	17.95	62.3735	1	0.0124
		5550	16	1	0.95	17.95	62.3735	1	0.0124
		5670	16	1	0.95	17.95	62.3735	1	0.0124
		5755	13	1	1.11	15.11	32.4340	1	0.0065
		5795	13	1	1.11	15.11	32.4340	1	0.0065
	IEEE 802.11ac-VHT80	5210	16	1	-1.83	15.17	32.8852	1	0.0065
		5290	16	1	-1.85	15.15	32.7341	1	0.0065
		5530	16	1	0.95	17.95	62.3735	1	0.0124
		5610	16	1	0.95	17.95	62.3735	1	0.0124
		5775	13	1	1.11	15.11	32.4340	1	0.0065

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3.4.1.4 Results for RSS-102 Issue 6

Operating Mode		Freq.	Declared maximum conducted output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	Declare Limit
		(MHz)	(dBm)		(dBi)	(dBm)	(W)	(W)
SIS	IEEE 802.11b	2412	19	1	1.22	21.22	0.13243	2.6840
		2437	19	1	1.22	21.22	0.13243	2.7030
		2462	19	1	1.22	21.22	0.13243	2.7219
	IEEE 802.11g	2412	22	1	1.22	24.22	0.2642	2.6840
		2437	22	1	1.22	24.22	0.2642	2.7030
		2462	22	1	1.22	24.22	0.2642	2.7219
	IEEE 802.11n-HT20	2412	19	1	1.22	21.22	0.1324	2.6840
		2437	19	1	1.22	21.22	0.1324	2.7030
		2462	19	1	1.22	21.22	0.1324	2.7219
SIS	IEEE 802.11a	5180	16	1	-1.83	15.17	0.0329	4.5253
		5220	16	1	-1.83	15.17	0.0329	4.5491
		5240	16	1	-1.83	15.17	0.0329	4.5610
		5260	16	1	-1.85	15.15	0.0327	4.5729
		5300	16	1	-1.85	15.15	0.0327	4.5966
		5320	16	1	-1.85	15.15	0.0327	4.6085
		5500	16	1	0.95	17.95	0.0624	4.7145
		5580	16	1	0.95	17.95	0.0624	4.7613
		5700	16	1	0.95	17.95	0.0624	4.8310
		5745	13	1	1.11	15.11	0.0324	4.8570
		5785	13	1	1.11	15.11	0.0324	4.8801
		5825	13	1	1.11	15.11	0.0324	4.9031
	IEEE 802.11n-HT20 IEEE 802.11ac-VHT20	5180	16	1	-1.83	15.17	0.0329	4.5253
		5220	16	1	-1.83	15.17	0.0329	4.5491
		5240	16	1	-1.83	15.17	0.0329	4.5610
		5260	16	1	-1.85	15.15	0.0327	4.5729
		5300	16	1	-1.85	15.15	0.0327	4.5966
		5320	16	1	-1.85	15.15	0.0327	4.6085
		5500	16	1	0.95	17.95	0.0624	4.7145
		5580	16	1	0.95	17.95	0.0624	4.7613
		5700	16	1	0.95	17.95	0.0624	4.8310
		5745	13	1	1.11	15.11	0.0324	4.8570
		5785	13	1	1.11	15.11	0.0324	4.8801
		5825	13	1	1.11	15.11	0.0324	4.9031
	IEEE 802.11n-HT40 802.11ac-VHT40	5190	16	1	-1.83	15.17	0.0329	4.5312
		5230	16	1	-1.83	15.17	0.0329	4.5551
		5270	16	1	-1.85	15.15	0.0327	4.5789
		5310	16	1	-1.85	15.15	0.0327	4.6026
		5510	16	1	0.95	17.95	0.0624	4.7204
		5550	16	1	0.95	17.95	0.0624	4.7437
		5670	16	1	0.95	17.95	0.0624	4.8136
		5755	13	1	1.11	15.11	0.0324	4.8628
		5795	13	1	1.11	15.11	0.0324	4.8859
	IEEE 802.11ac-VHT80	5210	16	1	-1.83	15.17	0.0329	4.5312
		5290	16	1	-1.85	15.15	0.0327	4.5551
		5530	16	1	0.95	17.95	0.0624	4.5789
		5775	16	1	0.95	17.95	0.0624	4.6026
		5795	13	1	1.11	15.11	0.0324	4.8859

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UTTR-RF-RSS102-V1.1

3.4.2 For BT

For BT_LE/2LE function, operating at 2402MHz to 2480 MHz for GFSK and

For BT_EDR function, operating at 2402MHz to 2480 MHz for GFSK, $\pi/4$ DQPSK, 8DPSK

3.4.2.1 Antenna Type:

FPC Antenna

3.4.2.2 Antenna Gain:

2402MHz to 2480 MHz: 1.22 dBi

3.4.2.3 Results for FCC 47 CFR Part 1 Subpart I

Operating Mode	Freq.	Declared maximum conducted output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	MPE Limit	MPE Value
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(mW)	(mW /cm ²)	
LE/2LE	2402-2480	4	2	1.22	7.22	5.2723	1	0.0010
EDR	2402-2480	4	2	1.22	7.72	5.2723	1	0.0010

3.4.2.4 Results for RSS-102 Issue 6

Operating Mode	Freq.	Declared maximum conducted output power	Max. positive tolerance according manufacturer	Antenna Gain	Calculated maximum EIRP	Declared maximum EIRP	Limit
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)	(W)	(W)
LE/2LE	2402-2480	4	2	1.22	7.22	0.0053	2.6764
EDR	2402-2480	4	2	1.22	7.72	0.0053	2.6764

3.4.3 Simultaneous Multi-band Transmission MPE Analysis

3.4.4.1 List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Support/Not Support
1	2.4G _WLAN + BT	Support
2	5G_WLAN + BT	Support
3	2.4G _WLAN + 5G_WLAN	Not Support

3.4.4.1 Results for transmit simultaneously

FCC 47 CFR Part 1 Subpart I

No.	Configurations	Maximum MPE Value			Limits
		WLAN (mw/cm ²)	BT (mw/cm ²)	Transmit simultaneously	
1	2.4G _WLAN + BT	0.0526	0.0010	0.0536	1
2	5G_WLAN + BT	0.0124	0.0010	0.0152	1

Note:
According to KDB 447498 D01 General RF Exposure Guidance v06, At the transmit simultaneously calculation method is as follows:
Transmit simultaneously MPE = Σ of MPE ratios
MPE ratios = Field strengths or power density / MPE limit at the test frequency

RSS-102 Issue 6

No.	Configurations	Maximum MPE Value			Limits
		WLAN	BT	Transmit simultaneously	
		W	W		
1	2.4G_WLAN + BT	0.2642	0.0053	0.1004	1
2	5G_WLAN + BT	0.0624	0.0053	0.0109	1

Note:
According to KDB 447498 D01 General RF Exposure Guidance v06, At the transmit simultaneously calculation method is as follows:

Transmit simultaneously MPE = Σ of MPE ratios

MPE ratios = Field strengths or power density / MPE limit at the test frequency

APPENDIX 1 PHOTOS OF TEST SETUP

N/A

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal Photos.

*** End of Report ***

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