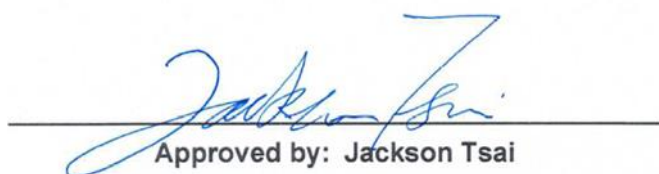


Radio Exposure Evaluation Report

FCC ID : QXO-AP3020W
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP3020W
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North
Carolina United States 27560
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Jan. 16, 2026, and testing was started from Feb. 04, 2026 and completed on Jul. 07, 2026. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR FCC Part 2 Subpart J, section 2.1091 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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Photographs of EUT V01

History of this test report

[illegible]



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Ryan Hsiao

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN (6ID)	5925-7125	5955-7115	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN (6SD)	5925-6425 6525-6875	5955-6415 6535-6855	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)
802.15.4	2400-2483.5	2405-2480	DSSS (O-QPSK)



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	WNC	95XPAM15.GAD	Dipole	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
2	WNC	95XPAM15.GAC	Dipole	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
3	WNC	95XPAM15.GAF	Dipole	I-Pex	BT+6E+802.15.4	Radio 1_6G Radio 3_BT/802.15.4
4	WNC	95XPAM15.GAE	Dipole	I-Pex	BT+6E+802.15.4	Radio 1_6G Radio 3_BT/802.15.4
5	WNC	48R7PB91.SGBASK	Printed PIFA	I-Pex	BT+802.15.4	Radio 3_BT/802.15.4

Ant.	Port	Gain (dBi)									
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT/802.15.4
1	1	5.69	5.76	6.36	6.16	6.7	-	-	-	-	-
2	2	4.65	5.1	4.93	4.79	3.37	-	-	-	-	-
3	1	-	-	-	-	-	5.05	5.37	4.67	5.57	4.7
4	2	-	-	-	-	-	4.15	5.2	4.36	4.9	6
5	3	-	-	-	-	-	-	-	-	-	3.5

Ant.		Composite Gain (dBi)								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~2	DG [1SS]	5.69	5.76	6.36	6.16	6.7	-	-	-	-
	DG [2SS]	5.69	5.76	6.36	6.16	6.7	-	-	-	-
3~4	DG [1SS]	-	-	-	-	-	5.05	5.37	4.67	5.57
	DG [2SS]	-	-	-	-	-	5.05	5.37	4.67	5.57

Note 1: The EUT has five antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v02 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP611201-01.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/2RX) < Radio 1 >

Ant. 1 (port 1) could transmit

Ant. 1 (port 1) and Ant. 2 (port 2) receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) < Radio 1 >

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

**For 5GHz function:**

For IEEE 802.11 a/n/ac/ax/be mode(1TX/2RX) < **Radio 2** >

Ant. 1 (port 1) could transmit

Ant. 1 (port 1) and Ant. 2 (port 2) receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode(2TX/2RX) < **Radio 2** >

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be mode(1TX/2RX) < **Radio 1** >

Ant. 3 (port 1) could transmit

Ant. 3 (port 1) and Ant. 4 (port 2) receive simultaneously.

For IEEE 802.11 ax/be mode(2TX/2RX) < **Radio 1** >

Ant. 3 (port 1) and Ant. 4 (port 2) could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) < **Radio 3** >

Ant. 3 (port 1) ,Ant. 4 (port 2) and Ant. 5 (port 3)could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 4(port 2) and it was recorded in this test report.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX) < **Radio 3** >

Ant. 3 (port 1) ,Ant. 4 (port 2) and Ant. 5 (port 3) could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was Ant. 4(port 2) and it was recorded in this test report.

1.1.3 Table for Multiple Listing

DDR	Brand	Model
Main	Micron	MT40A1G16TB-062E:F
Second	SK HYNIX	H5AG46DXNDX117N

From the above models, model: MT40A1G16TB-062E:F was selected as representative model for the test and its data was recorded in this report.

1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA611201-01

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
The 802.15.4 function has been added via software.	Exposure evaluation was evaluated.

1.1.5 Accessories

Accessories				
Wall Mount Bracket	Brand Name	HON WIN	Model Name	3S.008TM.111
RJ45 Cable	Brand Name	NIEN-YI	Model Name	50.3RAAQ.001
	Signal Line	0.1 meter, non-shielded cable		
Screw Bag	Brand Name	KIM KUAO LENG	Model Name	33.R7PBE.006

Reminder: Regarding to more detail and other information, please refer to user manual.

1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 2 Subpart J, section 2.1091
- ♦ KDB 447498 D04 Interim General RF Exposure Guidance v01

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ 47 CFR Part 1.1307
- ♦ 47 CFR Part 1.1310

1.3 Testing Location

Test Lab. : Sporton International Inc. Hsinhua Laboratory		
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)	
	TEL: 886-3-327-3456	FAX: 886-3-327-0973
Test site Designation No. TW3785 with FCC.		

2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) 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 Time 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 ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6

(B) 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 Time 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 ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

Multiple Transmitters Condition

Co-location as simultaneously transmitting (co-transmitting) and the evaluation shall be consider that simultaneous transmissions from co-located devices the individual transmitters are evaluated separately. After sum of the individual value (basic restriction / reference level) are measured/calculated also have to under basic restriction / reference level.

Co-transmitting mode:

Mode 1: 2.4GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + Bluetooth

Mode 2: 6GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + Bluetooth

Mode 3: 2.4GHz WLAN(Radio 1) +5GHz WLAN(Radio 2) + 802.15.4

Mode 4: 6GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + 802.15.4

2.2 RF Exposure Exempt Measurement

Option	Refer Std.	Exemption Exposure Thresholds (TL)
A	§1.1307(b)(3)(i)(A)	Available maximum time-averaged power is no more than 1 mW
B	§1.1307(b)(3)(i)(B)	$P_{th}(mW) = \begin{cases} ERP_{20cm} (d / 20cm)^x \rightarrow d \leq 20cm \\ ERP_{20cm} \rightarrow 20cm < d \leq 40cm \end{cases}$ $x = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$ $\begin{cases} ERP_{20cm} : 0.3GHz \leq f < 1.5GHz \rightarrow 2040f(mW) \\ ERP_{20cm} : 1.5GHz \leq f \leq 6GHz \rightarrow 3060(mW) \end{cases}$
C	§1.1307(b)(3)(i)(C)	$\begin{cases} 0.3 \sim 1.34MHz \rightarrow ERP(W) = 1920R^2 \\ 1.34 \sim 30MHz \rightarrow ERP(W) = 3450R^2 / f^2 \\ 30 \sim 300MHz \rightarrow ERP(W) = 3.83R^2 \\ 300 \sim 1500MHz \rightarrow ERP(W) = 0.0128R^2 f \\ 1500 \sim 100000MHz \rightarrow ERP(W) = 19.2R^2 \end{cases}$ $f \text{ is in MHz; } R \text{ is in m; } R > \lambda / 2\pi$

2.3 Multiple RF Sources Exposure

Refer Std.	Exemption Exposure Thresholds (TL)
§1.1307(b)(3)(ii)(A)	The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required)
§1.1307(b)(3)(ii)(B)	$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k} \leq 1$ a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(B) of this section for P , including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added. c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters. P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive). P_{th,i} = the exemption threshold power (P_{th}) according to paragraph §1.1307(b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i. ERP_j = the ERP of fixed, mobile, or portable RF source j. ERP_{th,j} = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph §1.1307(b)(3)(i)(C) of this section. Evaluated_k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure. Evaluated Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

2.4 MPE Calculation Method

The MPE was calculated at 20 cm to show compliance with the power density limit.
The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.5 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

WLAN 2.4GHz_Non-Beamforming_Radio 1_Full RU_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	5.69	17.70	21.24	0.50	149.279	20	B	3060.0	0.0488
2.4G;D1D	5.69	17.80	21.34	0.50	152.757	20	B	3060.0	0.0499

WLAN 2.4GHz_Non-Beamforming_Radio 1_Full RU_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	5.69	22.25	25.79	0.50	425.598	20	B	3060.0	0.1391
2.4G;D1D	5.69	21.43	24.97	0.50	352.371	20	B	3060.0	0.1152

WLAN 2.4GHz_Non-Beamforming_Radio 1_Full RU_2T2S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	5.69	20.94	24.48	0.50	314.775	20	B	3060.0	0.1029

WLAN 2.4GHz_Beamforming_Radio 1

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	5.69	21.13	24.67	0.50	328.852	20	B	3060.0	0.1075

WLAN5GHz_Non-Beamforming_Radio 2_Full RU_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.76	18.38	21.99	0.50	177.419	20	B	3060.0	0.0580
5.3G;D1D	6.36	18.67	22.88	0.50	217.771	20	B	3060.0	0.0712
5.6G;D1D	6.16	18.09	22.10	0.50	181.970	20	B	3060.0	0.0595
5.8G;D1D	6.70	18.53	23.08	0.50	228.034	20	B	3060.0	0.0745

WLAN5GHz_Non-Beamforming_Radio 2_Full RU_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.76	21.92	25.53	0.50	400.867	20	B	3060.0	0.1310
5.3G;D1D	6.36	22.26	26.47	0.50	497.737	20	B	3060.0	0.1627
5.6G;D1D	6.16	21.11	25.12	0.50	364.754	20	B	3060.0	0.1192
5.8G;D1D	6.70	22.50	27.05	0.50	568.853	20	B	3060.0	0.1860

WLAN5GHz_Non-Beamforming_Radio 2_Full RU_2T2S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.76	21.88	25.49	0.50	397.192	20	B	3060.0	0.1298
5.3G;D1D	6.36	22.15	26.36	0.50	485.289	20	B	3060.0	0.1586
5.6G;D1D	6.16	21.25	25.26	0.50	376.704	20	B	3060.0	0.1232
5.8G;D1D	6.70	22.40	26.95	0.50	555.904	20	B	3060.0	0.1817

WLAN5GHz_Beamforming_Radio 2

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.76	21.92	25.53	0.50	400.867	20	B	3060.0	0.1310
5.3G;D1D	6.36	22.26	26.47	0.50	497.737	20	B	3060.0	0.1627
5.6G;D1D	6.16	21.11	25.12	0.50	364.754	20	B	3060.0	0.1192
5.8G;D1D	6.70	22.50	27.05	0.50	568.853	20	B	3060.0	0.1860

WLAN6GHz_Non-Beamforming_Radio 1_Full RU_1T1S_LPI

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	22.37	20.22	0.50	118.032	20	C	768.007	0.1537
6.4G;D1D	-	22.55	20.40	0.50	123.027	20	C	768.007	0.1602
6.7G;D1D	-	23.04	20.89	0.50	137.721	20	C	768.007	0.1794
7.0G;D1D	-	21.52	19.37	0.50	97.051	20	C	768.007	0.1264

WLAN6GHz_Non-Beamforming_Radio 1_Full RU_2T1S_LPI

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	23.67	21.52	0.50	159.221	20	C	768.007	0.2074
6.4G;D1D	-	23.58	21.43	0.50	155.955	20	C	768.007	0.2031
6.7G;D1D	-	23.14	20.99	0.50	140.929	20	C	768.007	0.1836
7.0G;D1D	-	22.29	20.14	0.50	115.878	20	C	768.007	0.1509

WLAN6GHz_Non-Beamforming_Radio 1_Full RU_2T2S_LPI

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	23.80	21.65	0.50	164.059	20	C	768.007	0.2137
6.4G;D1D	-	23.70	21.55	0.50	160.325	20	C	768.007	0.2088
6.7G;D1D	-	23.29	21.14	0.50	145.881	20	C	768.007	0.1900
7.0G;D1D	-	22.43	20.28	0.50	119.674	20	C	768.007	0.1559

WLAN6GHz_Beamforming_Radio 1_LPI

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	24.51	22.36	0.50	193.197	20	C	768.007	0.2516
6.4G;D1D	-	24.02	21.87	0.50	172.584	20	C	768.007	0.2248
6.7G;D1D	-	23.86	21.71	0.50	166.341	20	C	768.007	0.2167
7.0G;D1D	-	23.74	21.59	0.50	161.808	20	C	768.007	0.2108

**WLAN6GHz_Non-Beamforming_Radio 1_Full RU_1T1S_SPAP**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	5.05	17.59	20.49	0.50	125.603	20	C	768.007	0.1636
6.7G;D1D	4.67	16.97	19.49	0.50	99.770	20	C	768.007	0.1300

WLAN6GHz_Non-Beamforming_Radio 1_Full RU_2T1S_SPAP

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	5.05	20.63	23.53	0.50	252.930	20	C	768.007	0.3295
6.7G;D1D	4.67	20.15	22.67	0.50	207.491	20	C	768.007	0.2703

WLAN6GHz_Non-Beamforming_Radio 1_Full RU_2T2S_SPAP

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	5.05	20.37	23.27	0.50	238.232	20	C	768.007	0.3103
6.7G;D1D	4.67	19.99	22.51	0.50	199.986	20	C	768.007	0.2605

WLAN6GHz_Beamforming_Radio 1_SPAP

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	5.05	20.63	23.53	0.50	252.930	20	C	768.007	0.3295
6.7G;D1D	4.67	20.15	22.67	0.50	207.491	20	C	768.007	0.2703

Bluetooth

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	6.00	11.46	15.31	0.50	38.107	20	B	3060.0	0.0125

802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;	6.00	10.8	14.65	0.50	32.734	20	B	3060.0	0.0107

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

**LPI****Simultaneous Transmission Analysis Mode: 2.4GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + Bluetooth**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	6.00	11.46	15.31	0.50	38.107	20	B	3060.0	0.0125
2.4G;G1D	5.69	22.25	25.79	0.50	425.598	20	B	3060.0	0.1391
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
Sum TL Ratio_B	0.3376								
Ratio Limit	1								

Simultaneous Transmission Analysis Mode: 6GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + Bluetooth

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
6.2G;D1D	-	-	22.36	0.50	193.197	20	C	768.007	0.2516
2.4G;BT-LE	6.00	11.46	15.31	0.50	38.107	20	B	3060.0	0.0125
Sum TL Ratio_B	0.1985								
Sum TL Ratio_C	0.2516								
Sum Ratio	0.4501								
Ratio Limit	1								

Simultaneous Transmission Analysis Mode: 2.4GHz WLAN(Radio 1) +5GHz WLAN(Radio 2) + 802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	5.69	22.25	25.79	0.50	425.598	20	B	3060.0	0.1391
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
2.4G;	6.00	10.8	14.65	0.50	32.734	20	B	3060.0	0.0107
Sum TL Ratio_B	0.3358								
Ratio Limit	1								

Simultaneous Transmission Analysis Mode: 6GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + 802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
6.2G;D1D	-	-	22.36	0.50	193.197	20	C	768.007	0.2516
2.4G;	6.00	10.8	14.65	0.50	32.734	20	B	3060.0	0.0107
Sum TL Ratio_B	0.1967								
Sum TL Ratio_C	0.2516								
Sum Ratio	0.4483								
Ratio Limit	1								

**SPAP****Simultaneous Transmission Analysis Mode: 2.4GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + Bluetooth**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	5.69	22.25	25.79	0.50	425.598	20	B	3060.0	0.1391
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
2.4G;BT-LE	6.00	11.46	15.31	0.50	38.107	20	B	3060.0	0.0125
Sum TL Ratio_B	0.3376								
Ratio Limit	1								

Simultaneous Transmission Analysis Mode: 6GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + Bluetooth

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
6.2G;D1D	5.05	20.63	23.53	0.50	252.930	20	C	768.007	0.3295
2.4G;BT-LE	6.00	11.46	15.31	0.50	38.107	20	B	3060.0	0.0125
Sum TL Ratio_B	0.1985								
Sum TL Ratio_C	0.3295								
Sum Ratio	0.528								
Ratio Limit	1								

Simultaneous Transmission Analysis Mode: 2.4GHz WLAN(Radio 1) +5GHz WLAN(Radio 2) + 802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	5.69	22.25	25.79	0.50	425.598	20	B	3060.0	0.1391
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
2.4G;	6.00	10.8	14.65	0.50	32.734	20	B	3060.0	0.0107
Sum TL Ratio_B	0.3358								
Ratio Limit	1								

Simultaneous Transmission Analysis Mode: 6GHz WLAN(Radio 1) + 5GHz WLAN(Radio 2) + 802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.8G;D1D	6.70	22.5	27.05	0.50	568.853	20	B	3060.0	0.1860
6.2G;D1D	5.05	20.63	23.53	0.50	252.930	20	C	768.007	0.3295
2.4G;	6.00	10.8	14.65	0.50	32.734	20	B	3060.0	0.0107
Sum TL Ratio_B	0.1967								
Sum TL Ratio_C	0.3295								
Sum Ratio	0.5262								
Ratio Limit	1								

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

Note 4: Refer as clause 2.3 Multiple RF Sources Exposure. Please follow below option and sum TL ration table.



Option	Sum TL Ratio_B	Option	Sum TL Ratio_C	Option	Sum TL Ratio_E
B	$\sum_{i=1}^a \frac{P_i}{P_{th,i}}$	C	$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}}$	E	$\sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k}$

Note: The above antenna gain was declared by manufacturer.

————THE END————