

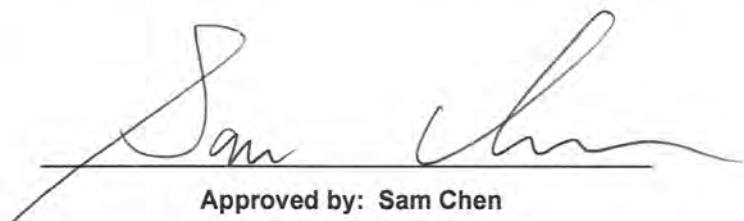


RADIO EXPOSURE TEST REPORT

FCC ID : QXO-AP3020
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP3020
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 Part 2.1091

The product was received on Mar. 16, 2026, and testing was started from Jun. 03, 2026 and completed on Aug. 25, 2026. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory
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Photographs of EUT v01



History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A1_1 Ver1.1

Page Number : 3 of 13
Issued Date : Sep. 30, 2026
Report Version : 01



Summary of Test Result

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

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 General Description

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, 1024QAM) 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	5180-5250 5250-5320 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 (For Indoor Access Point/ Subordinate)	5925-7125	5955-7095	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN (For Standard Power Access Point)	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: GFSK
IEEE 802.15.4	2400-2483.5	2405-2480	O-QPSK



1.2 Antenna Information

Ant.	RF Port				Brand Name	Model Name	Ant. Type	Connector	Modes of Operation	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth and IEEE 802.15.4						
1	1	1	1	-	WNC	95XPAM15.G93	PIFA	I-PEX	WLAN 2.4GHz, WLAN 5GHz UNII 1~2A, WLAN 6GHz UNII 5~8 (Radio 1)	Note 1
2	2	2	2	-	WNC	95XPAM15.G92	Dipole	I-PEX		
3	1	1	-	-	WNC	95XPAM15.G90	PIFA	I-PEX		
4	2	2	-	-	WNC	95XPAM15.G91	Dipole	I-PEX	WLAN 2.4GHz, WLAN 5GHz UNII 2C~3 or UNII 1~3 (Radio 2)	
5	-	-	-	1	WNC	95XPAM15.GAP	PIFA	I-PEX	Bluetooth, IEEE 802.15.4 (Radio 3)	
6	-	-	-	1	WNC	95XPAM15.GAQ	Dipole	I-PEX		
7	-	-	-	1	WNC	95XPAM15.G94	PIFA	I-PEX		

Note 1:

Ant.	Antenna Gain (dBi)						
	WLAN 2.4GHz (Radio 1)	WLAN 5GHz UNII 1~2A (Radio 1)		WLAN 6GHz UNII 5~8 (Radio 1)			
	2.45GHz	5.2GHz	5.3GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
1	1.12	2.93	2.62	3.38	3.03	3.14	3.59
2	5.37	4	4.54	3.97	4.01	2.34	4.43
Ant.	WLAN 2.4GHz (Radio 2)	WLAN 5GHz UNII 2C~3 or UNII 1~3 (Radio 2)					
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz		
3	2.26	1.95	2.21	2.92	2.29		
4	5.9	4.48	4.52	5.21	5.83		
Ant.	Bluetooth, IEEE 802.15.4 (Radio 3)						
5	4.5						
6	4.9						
7	4.5						



Directional Gain (dBi)							
Item	WLAN 2.4GHz (Radio 1)	WLAN 5GHz UNII 1~2A (Radio 1)		WLAN 6GHz UNII 5~8 (Radio 1)			
	2.45GHz	5.2GHz	5.3GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	5.37	4.37	4.87	4.05	4.01	3.3	4.67
2T2S	5.37	4	4.54	3.97	4.01	3.14	4.43
Item	WLAN 2.4GHz (Radio 2)	WLAN 5GHz UNII 2C~3 or UNII 1~3 (Radio 2)					
		5.2GHz	5.3GHz	5.6GHz	5.785GHz		
2T1S	5.9	4.48	4.52	5.21	5.83		
2T2S	5.9	4.48	4.52	5.21	5.83		

Note 2: The above information (excepting Ant. 1-4 (WLAN) antenna gain and directional gain) was declared by Manufacturer.

Note 3: The above information was declared by manufacturer.

Note 4: States antenna 5GHz and 6GHz transmission will be restricted per country's regulation.

For Radio 1:

2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

5GHz IEEE 802.11a/n/ac/ax/be mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

6GHz IEEE 802.11ax/be mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 2:

2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

5GHz IEEE 802.11a/n/ac/ax/be mode (1, 2TX/2RX)

The EUT can support both 1TX and 2TX functions.

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX/2RX



Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 3:**Bluetooth, IEEE 802.15.4 mode (1TX/1RX)**

The EUT supports all antennas with TX/RX diversity functions.

At once time there is only one antenna port can transmitting/receiving RF signal.

The Ant. 6 generated the worst case, so it was selected for testing.

1.3 Table for Radio Function

Function Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	IEEE 802.15.4
1	V	V (UNII 1~2A)	V	-	-
2	V	V (UNII 1~3 or UNII 2C~3)	-	-	-
3	-	-	-	V	V

Note 1: For WLAN 2.4GHz, 5GHz: The Radio 1 and Radio 2 can't operate at the same frequency simultaneously.

Note 2: The above information was declared by manufacturer.

1.4 Table for EUT Support Function

Type of Function	WLAN 2.4GHz	WLAN 5GHz		WLAN 6GHz
		Radio 1	Radio 2	
AP	V	V (UNII 1~2A)	V (UNII 1~3)	V
Bridge	V	V (UNII 1)	V (UNII 1/UNII3)	V
Mesh	V	V (UNII 1)	V (UNII 1/UNII3)	V

Note 1: For above table list, only AP mode was tested and recorded in this test.

Note 2: The above information was declared by manufacturer.

1.5 Table for Source Information

EUT	1	2	3
Source Item	Main source	Second source	Third source
DDR4 (Location: U301)	Brand: Micron Model: MT40A1G16TB-062E:F	Brand: SK HYNIX Model: H5AG46DXNDX117N	Brand: SAMSUNG Model: K4AAG165WA-BCWE

Note 1: From the above, EUT 1 has selected to execute all test items.

Note 2: The above information was declared by manufacturer.



1.6 Accessories

Accessories
Bracket*1
Cap*1

1.7 Testing Location

Testing Location Information
Test Lab. : Sporton International Inc. Hsinchu Laboratory
Hsinchu ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787) TEL: 886-3-656-9065 FAX: 886-3-656-9085
Test site Designation No. TW3787 with FCC.
Conformity Assessment Body Identifier (CABID) TW3787 with ISED.



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

2.2 MPE Calculation Method

The MPE was calculated at 31 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

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

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

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



2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

For Radio 1:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;G1D	5.37	25.05	30.42	0.50	30.92	31	0.10235	1.00000	0.10235
5.2G;D1D	4.37	27.40	31.77	0.50	32.27	31	0.13966	1.00000	0.13966
5.3G;D1D	4.87	23.82	28.69	0.50	29.19	31	0.06872	1.00000	0.06872

For Indoor Access Point:

6.2G;D1D	-	-	25.86	0.50	26.36	31	0.03582	1.00000	0.03582
6.4G;D1D	-	-	26.79	0.50	27.29	31	0.04437	1.00000	0.04437
6.7G;D1D	-	-	26.42	0.50	26.92	31	0.04074	1.00000	0.04074
7.0G;D1D	-	-	24.31	0.50	24.81	31	0.02506	1.00000	0.02506

For Standard Power Access Point:

6.2G;D1D	4.05	27.34	31.39	0.50	31.89	31	0.12796	1.00000	0.12796
6.7G;D1D	3.30	27.49	30.79	0.50	31.29	31	0.11145	1.00000	0.11145

For Radio 2:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;G1D	5.90	23.64	29.54	0.50	30.04	31	0.08357	1.00000	0.08357
5.2G;D1D	4.48	28.13	32.61	0.50	33.11	31	0.16946	1.00000	0.16946
5.3G;D1D	4.52	23.92	28.44	0.50	28.94	31	0.06487	1.00000	0.06487
5.6G;D1D	5.21	23.97	29.18	0.50	29.68	31	0.07692	1.00000	0.07692
5.8G;D1D	5.83	28.85	34.68	0.50	35.18	31	0.27294	1.00000	0.27294

For Radio 3:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;BT-LE (Bluetooth)	4.90	9.79	14.69	0.50	15.19	31	0.00274	1.00000	0.00274
2.4G;G1D (IEEE802.15.4)	4.90	10.58	15.48	0.50	15.98	31	0.00328	1.00000	0.00328

**Simultaneous Transmission Analysis Mode:****Mode 1: EUT 1_R1 (2.4GHz) + R2 (5GHz full) + R3 (BT)**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;G1D	5.37	25.05	30.42	0.50	30.92	31	0.10235	1.00000	0.10235
5.8G;D1D	5.83	28.85	34.68	0.50	35.18	31	0.27294	1.00000	0.27294
2.4G;BT-LE	4.90	9.79	14.69	0.50	15.19	31	0.00274	1.00000	0.00274
								Sum Ratio	0.37803
								Ratio Limit	1

Mode 2: EUT 1_R1 (2.4GHz) + R2 (5GHz full) + R3 (IEEE 802.15.4)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;G1D	5.37	25.05	30.42	0.50	30.92	31	0.10235	1.00000	0.10235
5.8G;D1D	5.83	28.85	34.68	0.50	35.18	31	0.27294	1.00000	0.27294
2.4G;G1D (IEEE 802.15.4)	4.90	10.58	15.48	0.50	15.98	31	0.00328	1.00000	0.00328
								Sum Ratio	0.37857
								Ratio Limit	1

Mode 3: EUT 1_R1 (6GHz full) + R2 (5GHz full) + R3 (BT)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.2G;D1D	4.05	27.34	31.39	0.50	31.89	31	0.12796	1.00000	0.12796
5.8G;D1D	5.83	28.85	34.68	0.50	35.18	31	0.27294	1.00000	0.27294
2.4G;BT-LE	4.90	9.79	14.69	0.50	15.19	31	0.00274	1.00000	0.00274
								Sum Ratio	0.40364
								Ratio Limit	1

Mode 4: EUT 1_R1 (6GHz full) + R2 (5GHz full) + R3 (IEEE 802.15.4)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.2G;D1D	4.05	27.34	31.39	0.50	31.89	31	0.12796	1.00000	0.12796
5.8G;D1D	5.83	28.85	34.68	0.50	35.18	31	0.27294	1.00000	0.27294
2.4G;G1D (IEEE 802.15.4)	4.90	10.58	15.48	0.50	15.98	31	0.00328	1.00000	0.00328
								Sum Ratio	0.40418
								Ratio Limit	1

**Mode 5: EUT 1_R1 (5GHz UNII 1~2A) + R2 (5GHz UNII 2C~3) + R3 (BT)**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
5.2G;D1D	4.37	27.40	31.77	0.50	32.27	31	0.13966	1.00000	0.13966
5.8G;D1D	5.83	28.85	34.68	0.50	35.18	31	0.27294	1.00000	0.27294
2.4G;BT-LE	4.90	9.79	14.69	0.50	15.19	31	0.00274	1.00000	0.00274
								Sum Ratio	0.41534
								Ratio Limit	1

Mode 6: EUT 1_R1 (5GHz UNII 1~2A) + R2 (5GHz UNII 2C~3) + R3 (IEEE 802.15.4)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
5.2G;D1D	4.37	27.40	31.77	0.50	32.27	31	0.13966	1.00000	0.13966
5.8G;D1D	5.83	28.85	34.68	0.50	35.18	31	0.27294	1.00000	0.27294
2.4G;G1D (IEEE 802.15.4)	4.90	10.58	15.48	0.50	15.98	31	0.00328	1.00000	0.00328
								Sum Ratio	0.41588
								Ratio Limit	1

Mode 7: EUT 1_R1 (6GHz full) + R2 (2.4GHz) + R3 (BT)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.2G;D1D	4.05	27.34	31.39	0.50	31.89	31	0.12796	1.00000	0.12796
2.4G;G1D	5.90	23.64	29.54	0.50	30.04	31	0.08357	1.00000	0.08357
2.4G;BT-LE	4.90	9.79	14.69	0.50	15.19	31	0.00274	1.00000	0.00274
								Sum Ratio	0.21427
								Ratio Limit	1

Mode 8: EUT 1_R1 (6GHz full) + R2 (2.4GHz) + R3 (IEEE 802.15.4)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.2G;D1D	4.05	27.34	31.39	0.50	31.89	31	0.12796	1.00000	0.12796
2.4G;G1D	5.90	23.64	29.54	0.50	30.04	31	0.08357	1.00000	0.08357
2.4G;G1D (IEEE 802.15.4)	4.90	10.58	15.48	0.50	15.98	31	0.00328	1.00000	0.00328
								Sum Ratio	0.21481
								Ratio Limit	1

Note: R means Radio ; BT means Bluetooth.

—THE END—