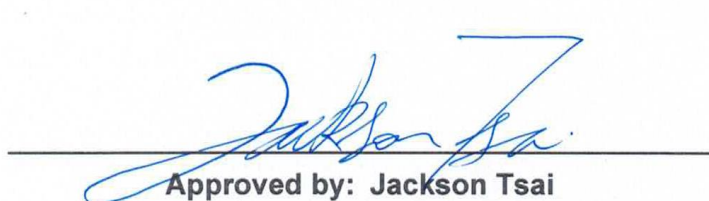


Radio Exposure Evaluation Report

FCC ID : UDX-600218010
Equipment : Cisco Wireless 9174I Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9174I
Applicant : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Manufacturer : Cisco Systems, Inc.
170 West Tasman Drive, San Jose, CA 95134 USA
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Jan. 06, 2025, and testing was started from Jan. 15, 2025 and completed on May 28, 2025. 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 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.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Applicable Standards	10
1.3 Testing Location	10
2 MAXIMUM PERMISSIBLE EXPOSURE	11
2.1 Limit of Maximum Permissible Exposure	11
2.2 RF Exposure Exempt Measurement	12
2.3 Multiple RF Sources Exposure.....	13
2.4 MPE Calculation Method	14
2.5 Calculated Result and Limit.....	15
Photographs of EUT V01	



History of this test report

Report No.	Version	Description	Issued Date
FA510630AB	01	Initial issue of report	Sep. 24, 2025



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: Barry Hsiao

Report Producer: Debby Hung



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	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	Fii	363.00006	PIFA	I-Pex	2.4G	Radio1,3
					5G	Radio 2
2	Fii	363.00006	Dipole	I-Pex	2.4G	Radio1,3
					5G	Radio 2
3	Fii	363.00006	PIFA	I-Pex	2.4G	Radio 3
					5G	Radio 2
4	Fii	363.00006	Dipole	I-Pex	2.4G	Radio 3
					5G	Radio 2
5	Fii	363.00006	PIFA	I-Pex	6G	Radio 3
6	Fii	363.00006	Dipole	I-Pex	6G	Radio 3
7	Fii	363.00006	PIFA	I-Pex	6G	Radio 3
8	Fii	363.00006	Dipole	I-Pex	6G	Radio 3
9	Fii	363.00006	PIFA	I-Pex	2.4G/5G/6G	Radio 4 Scan
10	Fii	363.00006	PIFA	I-Pex	2.4G/5G/6G	Radio 4 Scan
11	Fii	363.00006	PIFA	I-Pex	BLE&IEEE 802.15.4	BLE&IEEE 802.15.4

Ant.	Port	Gain (dBi)									
		2.4G	5G				6G				BLE& IEEE 802.15.4
			UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	
1	1	2.98	4.33	5.26	4.49	4.73	-	-	-	-	-
2	2	4.79	4.19	4.19	3.89	3.93	-	-	-	-	-
3	4	4.97	4.78	4.93	4.72	4.38	-	-	-	-	-
4	3	3.83	4.89	5.1	5.26	5.05	-	-	-	-	-
5	4	-	-	-	-	-	6.36	4.57	4.89	5.17	-
6	2	-	-	-	-	-	5.4	5.83	5.14	6.96	-
7	1	-	-	-	-	-	5.3	3.39	3.55	3.31	-
8	3	-	-	-	-	-	3.14	4.9	3.21	4.91	-
9	1	4.72	4.19	4.77	3.94	4.55	4.52	4.63	4.06	4.29	-
10	2	3.77	3.18	4.16	4.53	4.08	4.48	3.96	4.03	4.42	-
11	1	-	-	-	-	-	-	-	-	-	4.56

Composite Gain (dBi)			
Ant.	Wi-Fi Mode	2.4G	
		Radio 1	Radio 3
1,2	DG [1SS]	4.79	-
	DG [2SS]	4.79	-
3,4	DG [1SS]	-	4.97
	DG [2SS]	-	4.97
1,2,3,4	DG [1SS]	-	6.95
	DG [2SS]	-	4.97
	DG [4SS]	-	4.97



Composite Gain (dBi)									
Ant.	Wi-Fi Mode	5G				6G			
		Radio 2				Radio 3			
		UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1,2,3,4	DG [1SS]	5.31	5.51	5.5	5.08	-	-	-	-
	DG [2SS]	4.89	5.26	5.26	5.05	-	-	-	-
	DG [4SS]	4.89	5.26	5.26	5.05	-	-	-	-
5,6,7,8	DG [1SS]	-	-	-	-	6.36	5.83	5.14	7.36
	DG [2SS]	-	-	-	-	6.36	5.83	5.14	6.96
	DG [4SS]	-	-	-	-	6.36	5.83	5.14	6.96
2,4	DG [1SS]	4.89	5.1	5.26	5.05	-	-	-	-
	DG [2SS]	4.89	5.1	5.26	5.05	-	-	-	-

Note 1: The EUT has eleven 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 AP510630.

For 2.4GHz function:

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

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

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

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 IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/4RX) (Radio 3)

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

Support diversity function and pre-tested on each single chain, the worst case was Ant.4 (port 3) and it was recorded in this test report.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/4RX) (Radio 3)

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

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX) (Radio 3)

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

For IEEE 802.11 b/g/n/VHT/ax mode(1TX/2RX) (Radio 4)

Only Ant. 9 (port 1) could transmit.

Ant. 9 (port 1) and Ant. 10 (port 2) could receive.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 2)

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

Support diversity function and pre-tested on each single chain, the worst case was Ant. 4 (port 3) and it was recorded in this test report.



For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 2)
Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 4), Ant. 4 (port 3) could transmit/receive simultaneously.
For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 2)
Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 4), Ant. 4 (port 3) could transmit/receive simultaneously.
For IEEE 802.11 a/n/ac mode(1TX/2RX) (Radio 4)
Only Ant. 9 (port 1) could transmit.
Ant. 9 (port 1) and Ant. 10 (port 2) could receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)
Ant. 11 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)
Ant. 11 (port 1) could transmit/receive.

For 6GHz function:

For IEEE 802.11 ax/be mode(1TX/4RX) (Radio 3)
Ant. 5 (port 4), Ant. 6 (port 2), Ant. 7 (port 1), Ant. 8 (port 3) could transmit/receive.
Support diversity function and pre-tested on each single chain, the worst case was Ant. 5 (port 4) and it was recorded in this test report.
For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 3)
Ant. 5 (port 4), Ant. 6 (port 2), Ant. 7 (port 1), Ant. 8 (port 3) could transmit/receive simultaneously.
For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 3)
Ant. 5 (port 4), Ant. 6 (port 2), Ant. 7 (port 1), Ant. 8 (port 3) could transmit/receive simultaneously.
For IEEE 802.11 ax mode(1TX/2RX) (Radio 4_Scan)
Only Ant. 9 (port 1) could transmit.
Ant. 9 (port 1) and Ant. 10 (port 2) could receive.

1.1.3 Accessories

Accessories				
Low Profile Mounting Bracket	Brand Name	Cisco	Model Name	AIR-AP-BRACKET-1
Ceiling grid clip	Brand Name	Cisco	Model Name	AIR-AP-T-RAIL-R

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.			
☐	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)	
		TEL: 886-3-318-0787	FAX: 886-3-318-0287
Test site Designation No. TW0008 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:

1. R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+BT
2. R2_5G(4*4)+R3_2.4G(4*4)(XOR)+BT
3. R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+IEEE 802.15.4
4. R2_5G(4*4)+R3_2.4G(4*4)(XOR)+IEEE 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 is in MHz; R 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

Non-Beamforming

2.4GHz WLAN_Non-Beamforming_Radio 1_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	4.79	17.26	19.90	0.50	109.648	20	B	3060.0	0.0358
2.4G;D1D	4.79	16.83	19.47	0.50	99.312	20	B	3060.0	0.0325

2.4GHz WLAN_Non-Beamforming_Radio 1_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	4.79	20.35	22.99	0.50	223.357	20	B	3060.0	0.0730
2.4G;D1D	4.79	20.01	22.65	0.50	206.538	20	B	3060.0	0.0675

2.4GHz WLAN_Non-Beamforming_Radio 3_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	3.83	17.48	19.16	0.50	92.470	20	B	3060.0	0.0302
2.4G;D1D	3.83	17.01	18.69	0.50	82.985	20	B	3060.0	0.0271

2.4GHz WLAN_Non-Beamforming_Radio 3_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	4.97	20.71	23.53	0.50	252.930	20	B	3060.0	0.0827
2.4G;D1D	4.97	19.94	22.76	0.50	211.836	20	B	3060.0	0.0693

2.4GHz WLAN_Non-Beamforming_Radio 3_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	4.97	23.61	26.43	0.50	493.174	20	B	3060.0	0.1612
2.4G;D1D	4.97	23	25.82	0.50	428.549	20	B	3060.0	0.1401

**5GHz WLAN_Non-Beamforming_Radio 2_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	4.89	17.41	20.15	0.50	116.145	20	B	3060.0	0.0380
5.3G;D1D	5.10	17.39	20.34	0.50	121.339	20	B	3060.0	0.0397
5.6G;D1D	5.26	17.14	20.25	0.50	118.850	20	B	3060.0	0.0389
5.8G;D1D	5.05	17.17	20.07	0.50	114.025	20	B	3060.0	0.0373

5GHz WLAN_Non-Beamforming_Radio 2_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	4.89	20.46	23.20	0.50	234.423	20	B	3060.0	0.0766
5.3G;D1D	5.10	20.44	23.39	0.50	244.906	20	B	3060.0	0.0801
5.6G;D1D	5.26	20.15	23.26	0.50	237.684	20	B	3060.0	0.0777
5.8G;D1D	5.05	19.91	22.81	0.50	214.289	20	B	3060.0	0.0701

5GHz WLAN_Non-Beamforming_Radio 2_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	4.89	23.5	26.24	0.50	472.063	20	B	3060.0	0.1543
5.3G;D1D	5.26	23.37	26.48	0.50	498.884	20	B	3060.0	0.1631
5.6G;D1D	5.26	23.18	26.29	0.50	477.529	20	B	3060.0	0.1561
5.8G;D1D	5.05	22.94	25.84	0.50	430.527	20	B	3060.0	0.1407

6GHz WLAN_Non-Beamforming_Radio 3_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	18.59	0.50	81.096	20	C	768.007	0.1056
6.7G;D1D	-	-	16.63	0.50	51.642	20	C	768.007	0.0673

6GHz WLAN_Non-Beamforming_Radio 3_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	21.74	0.50	167.494	20	C	768.007	0.2182
6.7G;D1D	-	-	20.34	0.50	121.339	20	C	768.007	0.1581

6GHz WLAN_Non-Beamforming_Radio 3_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	20.42	0.50	123.595	20	C	768.007	0.1610
6.7G;D1D	-	-	20.36	0.50	121.899	20	C	768.007	0.1588

**2.4GHz WLAN Non-Beamforming Scan Radio**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	4.72	17.92	20.49	0.50	125.603	20	B	3060.0	0.0411
2.4G;D1D	4.72	17	19.57	0.50	101.625	20	B	3060.0	0.0332

5GHz WLAN Non-Beamforming Scan Radio

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	4.19	15.47	17.51	0.50	63.241	20	B	3060.0	0.0207
5.3G;D1D	4.77	15.81	18.43	0.50	78.163	20	B	3060.0	0.0256
5.6G;D1D	3.94	15.96	17.75	0.50	66.834	20	B	3060.0	0.0218
5.8G;D1D	4.55	16.72	19.12	0.50	91.622	20	B	3060.0	0.0300

6GHz WLAN Non-Beamforming Scan Radio

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	14.44	0.50	31.189	20	C	768.007	0.0406
6.7G;D1D	-	-	16.07	0.50	45.394	20	C	768.007	0.0591

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	4.56	18.96	21.37	0.50	153.815	20	B	3060.0	0.0503

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;D1D	4.56	18.92	21.33	0.50	152.405	20	B	3060.0	0.0498

**Beamforming****2.4GHz WLAN_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	4.79	20.01	22.65	0.50	206.538	20	B	3060.0	0.0675

2.4GHz WLAN_Beamforming_Radio 3

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	6.95	23.00	27.80	0.50	676.083	20	B	3060.0	0.2210

5GHz WLAN_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	5.31	23.5	26.66	0.50	519.996	20	B	3060.0	0.1700
5.3G;D1D	5.51	23.37	26.73	0.50	528.445	20	B	3060.0	0.1728
5.6G;D1D	5.50	23.18	26.53	0.50	504.661	20	B	3060.0	0.1650
5.8G;D1D	5.08	22.94	25.87	0.50	433.511	20	B	3060.0	0.1417

6GHz WLAN_Beamforming_Radio 3

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	24.19	0.50	294.442	20	C	768.007	0.3835
6.7G;D1D	-	-	24.46	0.50	313.329	20	C	768.007	0.4081

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)

**Simultaneous Transmission Analysis Mode:****R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+R4_Scan:2.4G+5G+6G(1T*2R)+BT**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	4.79	20.35	22.99	0.50	223.357	20	B	3060.0	0.0730
5.3G;D1D	5.51	23.37	26.73	0.50	528.445	20	B	3060.0	0.1728
6.7G;D1D	-	-	24.46	0.50	313.329	20	C	768.007	0.4081
2.4G;G1D	4.72	17.92	20.49	0.50	125.603	20	B	3060.0	0.0411
5.8G;D1D	4.55	16.72	19.12	0.50	91.622	20	B	3060.0	0.0300
6.2G;D1D	-	-	16.07	0.50	45.394	20	C	768.007	0.0591
2.4G;BT-LE	4.56	18.96	21.37	0.50	153.815	20	B	3060.0	0.0503
Sum TL Ratio_B	0.3672	-	-	-	-	-	-	-	-
Sum TL Ratio_C	0.4672	-	-	-	-	-	-	-	-
Sum Ratio	0.8344	-	-	-	-	-	-	-	-
Ratio Limit	1	-	-	-	-	-	-	-	-

R2_5G(4*4)+R3_2.4G(4*4)(XOR)+R4_Scan:2.4G+5G+6G(1T*2R)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.3G;D1D	5.51	23.37	26.73	0.50	528.445	20	B	3060.0	0.1728
2.4G;D1D	6.95	23.00	27.80	0.50	676.083	20	B	3060.0	0.2210
2.4G;G1D	4.72	17.92	20.49	0.50	125.603	20	B	3060.0	0.0411
5.8G;D1D	4.55	16.72	19.12	0.50	91.622	20	B	3060.0	0.0300
6.2G;D1D	-	-	16.07	0.50	45.394	20	C	768.007	0.0591
2.4G;BT-LE	4.56	18.96	21.37	0.50	153.815	20	B	3060.0	0.0503
Sum TL Ratio_B	0.5152	-	-	-	-	-	-	-	-
Sum TL Ratio_C	0.0591	-	-	-	-	-	-	-	-
Sum Ratio	0.5743	-	-	-	-	-	-	-	-
Ratio Limit	1	-	-	-	-	-	-	-	-

**R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+R4_Scan:2.4G+5G+6G(1T*2R)+IEEE 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	4.79	20.35	22.99	0.50	223.357	20	B	3060.0	0.0730
5.3G;D1D	5.51	23.37	26.73	0.50	528.445	20	B	3060.0	0.1728
6.7G;D1D	-	-	24.46	0.50	313.329	20	C	768.007	0.4081
2.4G;G1D	4.72	17.92	20.49	0.50	125.603	20	B	3060.0	0.0411
5.8G;D1D	4.55	16.72	19.12	0.50	91.622	20	B	3060.0	0.0300
6.2G;D1D	-	-	16.07	0.50	45.394	20	C	768.007	0.0591
2.4G;D1D	4.56	18.92	21.33	0.50	152.405	20	B	3060.0	0.0498
Sum TL Ratio_B	0.3667	-	-	-	-	-	-	-	-
Sum TL Ratio_C	0.4672	-	-	-	-	-	-	-	-
Sum Ratio	0.8339	-	-	-	-	-	-	-	-
Ratio Limit	1	-	-	-	-	-	-	-	-

R2_5G(4*4)+R3_2.4G(4*4)(XOR)+R4_Scan:2.4G+5G+6G(1T*2R)+IEEE 802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.3G;D1D	5.51	23.37	26.73	0.50	528.445	20	B	3060.0	0.1728
2.4G;D1D	6.95	23.00	27.80	0.50	676.083	20	B	3060.0	0.2210
2.4G;G1D	4.72	17.92	20.49	0.50	125.603	20	B	3060.0	0.0411
5.8G;D1D	4.55	16.72	19.12	0.50	91.622	20	B	3060.0	0.0300
6.2G;D1D	-	-	16.07	0.50	45.394	20	C	768.007	0.0591
2.4G;D1D	4.56	18.92	21.33	0.50	152.405	20	B	3060.0	0.0498
Sum TL Ratio_B	0.5147								
Sum TL Ratio_C	0.0591								
Sum Ratio	0.5738								
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————