



RADIO EXPOSURE TEST REPORT

FCC ID : UDX-600201010
Equipment : Cisco Wireless 9176D1 Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9176D1
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 Part 2.1091

The product was received on Mar. 07, 2024, and testing was started from Apr. 19, 2024 and completed on Sep. 03, 2024. 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

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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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 27
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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: Wendy Pan



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 5925-7125 For Standard Power Access Point: 5925-6425 / 6525-6875	For Indoor Access Point 5955-7115 For Standard Power Access Point: 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
Zigbee	2400-2483.5	2405-2480	O-QPSK
UWB	3100-10600	7987.2	Pi/2 shift BPSK + DSSS



1.2 Antenna Information

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	4	WNC	95XPAD15.G20	Dipole	I-PEX	Note 1	2.4GHz, 5GHz UNII 1~2A (Radio 1)
2	3	WNC	95XPAD15.G21	Dipole	I-PEX		5GHz UNII 1~3 or UNII 2C~3 only (Radio 2)
3	1	WNC	95XPAD15.G22	Dipole	I-PEX		
4	2	WNC	95XPAD15.G23	Dipole	I-PEX		
5	1	WNC	95XPAD15.G24	Dipole	I-PEX		
6	2	WNC	95XPAD15.G24	Dipole	I-PEX		6GHz UNII 5~8 (Radio 3)
7	3	WNC	95XPAD15.G26	Dipole	I-PEX		
8	4	WNC	95XPAD15.G26	Dipole	I-PEX		
9	1	WNC	95XPAD15.G28	Dipole	I-PEX		2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8 (Radio 4(Pine Scanning radio))
10	3	WNC	95XPAD15.G30	Dipole	I-PEX		
11	4	WNC	95XPAD15.G31	Dipole	I-PEX		
12	2	WNC	95XPAD15.G29	Dipole	I-PEX		Bluetooth and Zigbee (Radio 5)
13	1	WNC	95XPAD15.G34	Dipole	I-PEX		
14	2	WNC	95XPAD15.G35	Dipole	I-PEX		
15	1	WNC	95XPAD15.G32	loop	I-PEX		GPS (Radio 6)
16	1	WNC	95XPAD15.G33	PIFA	I-PEX	1.16GHz~1.19GHz: 2.05 1.56GHz~1.59GHz: 1.92	
17	1	WNC	95XPAD15.G37	Patch	I-PEX	6.5	UWB (Radio 7)
18	2	WNC			I-PEX	7.0	



Note 1:

Ant.	Antenna Gain (dBi)								
	WLAN 2.4GHz (Radio 1)			WLAN 5GHz UNII 1~2A (Radio 1)					
				5.2GHz			5.3GHz		
1	6.7			4.23			4.64		
2	6.96			5.45			5.05		
3	6.72			6.52			5.7		
4	6.96			4.06			4.21		
Ant.	WLAN 5GHz UNII 1~3 (Radio 2)								
	5.2GHz		5.3GHz		5.6GHz		5.785GHz		
	6.21		5.73		7.11		6.39		
5	6.21		5.73		7.11		6.39		
6	4.56		4.46		5.7		6.19		
7	5.8		5.89		7.2		6.62		
8	3.9		4.02		5.38		5.11		
Ant.	WLAN 6GHz UNII 5~8 (Radio 3)								
	6.175GHz		6.475GHz		6.695GHz		6.995GHz		
	5.86		7.14		6.85		6.41		
9	5.86		7.14		6.85		6.41		
10	5.4		6.24		5.99		5.87		
11	5.64		6.22		5.45		6.4		
12	5.54		6.43		5.64		6.44		
Ant.	WLAN 2.4GHz/5GHz UNII 1~3/WLAN 6GHz UNII 5~8 (Radio 4(Pine Scanning radio))								
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
	13	8.02	3.93	4.57	5.47	5.9	7.71	7.64	6.98
14	8.15	4.82	4.94	4.26	5.26	6.47	7.73	6.59	6.5
Ant.	Bluetooth/Zigbee (Radio 5)								
15	6.92								

Note 2:

Item	Directional Gain (dBi)							
	WLAN 2.4GHz (Radio 1)		WLAN 5GHz UNII 1~2A (Radio 1)					
			5.2GHz			5.3GHz		
2T1S	8.53		6.52			5.7		
2T2S	6.96		6.52			5.7		
4T1S	10.12		8.28			8.25		
4T2S	7.12		6.52			5.7		
4T4S	6.96		6.52			5.7		
Item	WLAN 5GHz UNII 1~3 (Radio 2) / WLAN 6GHz UNII 5~8 (Radio 3)							
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	6.68	6.22	7.11	6.88	6.49	7.14	6.85	6.66
2T2S	6.21	5.73	7.11	6.39	5.86	7.14	6.85	6.44
4T1S	8.67	8.73	9.22	9.47	8.32	9.43	8.69	8.92
4T2S	6.21	5.89	7.2	6.62	5.86	7.14	6.85	6.44
4T4S	6.21	5.89	7.2	6.62	5.86	7.14	6.85	6.44

Note 3: The above information (excepting Ant. 1~15 antenna gain and directional gain) was declared by manufacturer.

Note 4: Radio 1~3: Maximum Directional Gain following KDB662911 D03.

For Radio 1**For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1TX, 2TX, 4TX/4RX) and****For 5GHz (UNII 1~2A) IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

**For Radio 2****For 5GHz (UNII 1~3 or UNII 2C~3):****For IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

For Radio 3**For 6GHz (UNII 5~8):****For IEEE 802.11ax/be mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

4TX

Port 1, Port 2, Port 3 and Port 4 can be used as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

4RX

Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

For Radio 4(Pine Scanning radio)**For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):**

Only Port 1 can be used as transmitting/receiving functions.

Port 1~2 could receive simultaneously.

For 5GHz (UNII 1~3):**For IEEE 802.11a/n/ac/ax mode (1TX/2RX):**

Only Port 1 can be used as transmitting/receiving functions.

Port 1~2 could receive simultaneously.

For 6GHz (UNII 5~8):**For IEEE 802.11ax mode (1TX/2RX):**

Only Port 1 can be used as transmitting/receiving functions.

Port 1~2 could receive simultaneously.

For Radio 5:**For Bluetooth/Zigbee mode (1TX/1RX)**

Only Port 1 can be used as transmitting/receiving functions.

For Radio 6:**For GPS (1TX/1RX)**

Only Port 1 can be used as transmitting/receiving functions.

For Radio 7:**For UWB (1TX/2RX)**

Only Port 1 can be used as transmitting functions.

Port 1~2 can be used as receiving antennas.

Port 1~2 could receive simultaneously.

1.2.1 Table for Radio function

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	Zigbee	GPS	UWB
1	V	V (UNII 1~2A)	-	-	-	-	-
2	-	V (UNII 2C~3/ UNII 1~3)	-	-	-	-	-
3	-	-	V	-	-	-	-
4 (Pine Scanning radio)	V	V (UNII 1~3)	V	-	-	-	-
5	-	-	-	V	V	-	-
6	-	-	-	-	-	V	-
7	-	-	-	-	-	-	V

Note1: The above information was declared by manufacturer.

Note2: For WLAN 2.4GHz: The Radio 1 and Radio 4(Pine Scanning radio) can't operate at the same frequency.
 For WLAN 5GHz: The Radio 1, 2 and Radio 4(Pine Scanning radio) can't operate at the same frequency.
 For WLAN 6GHz: The Radio 3 and Radio 4(Pine Scanning radio) can't operate at the same frequency simultaneously.

1.2.2 Table for Multiple Listing

Equipment Name	Model Name	SW	Frequencies supported by 320MHz
Cisco Wireless 9176D1 Series Wi-Fi 7 Access Point	CW9176D1	Cisco	6105, 6265, 6425, 6745 MHz
		Meraki	6105, 6265, 6425, 6585, 6745, 6905 MHz

Note: The above information was declared by manufacturer.

1.2.3 Table for EUT Support Function

Function	Supports Band
AP Router	2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8, Bluetooth, Zigbee, UWB and GPS
Mesh	6GHz UNII 5~8

Note: The above information was declared by manufacturer.

1.2.4 Table for EUT Operation Function

Mode	Operation Function
1	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
2	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
3	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
4	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
5	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
6	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
7	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
8	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
9	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
10	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
11	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
12	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
13	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
14	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
15	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
16	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
17	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
18	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
19	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
20	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
21	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
22	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
23	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
24	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Note: The above information was declared by manufacturer.



1.3 Accessories

Bracket*1

1.4 Applicable Standards

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

- ♦ 47 CFR Part 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

1.5 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 63 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 MPE Exemption

Option (A): 1.1307(b)(3)(i)(A): Available maximum time-averaged power is < 1 mW

Option (B): 1.1307(b)(3)(i)(B): Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Option (C): 1.1307(b)(3)(i)(C): ERP is below a threshold calculated based on the distance

R between the person and the antenna / radiating structure, where $R > \lambda / 2 \pi$.

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.
Note: R is in meters, f is in MHz.	



2.4 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.3G;D1D (Radio 1)	8.25	21.71	27.81	0.03	608.135	63	C	7620.5	0.0798
5.2G;D1D (Radio 2)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
5.3G;D1D (Radio 2)	6.22	23.73	27.80	0.04	608.135	63	C	7620.5	0.0798
5.6G;D1D (Radio 2)	7.11	22.81	27.77	0.07	608.135	63	C	7620.5	0.0798
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.2G;D1D (6ID/Radio 3)	6.49	-	27.01	0.50	563.638	63	C	7620.5	0.0740
6.4G;D1D (6ID/Radio 3)	7.14	-	26.14	0.50	461.318	63	C	7620.5	0.0606
6.7G;D1D (6ID/Radio 3)	6.85	-	27.11	0.50	576.766	63	C	7620.5	0.0757
7.0G;D1D (6ID/Radio 3)	6.66	-	23.80	0.50	269.153	63	C	7620.5	0.0353
6.2G;D1D (6SD/Radio 3)	5.86	-	30.02	0.50	1127.197	63	C	7620.5	0.1480
6.7G;D1D (6SD/Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
5.2G;D1D (Radio 4)	3.93	21.64	23.42	0.50	246.604	63	C	7620.5	0.0324
5.3G;D1D (Radio 4)	4.57	21.25	23.67	0.50	261.216	63	C	7620.5	0.0343
5.6G;D1D (Radio 4)	5.47	22.99	26.31	0.50	479.733	63	C	7620.5	0.0630
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
6.2G;D1D (6ID/Radio 4)	7.71	10.89	16.45	0.50	49.545	63	C	7620.5	0.0065
6.4G;D1D (6ID/Radio 4)	7.64	10.88	16.37	0.50	48.641	63	C	7620.5	0.0064
6.7G;D1D (6ID/Radio 4)	6.98	11.72	16.55	0.50	50.699	63	C	7620.5	0.0067
7.0G;D1D (6ID/Radio 4)	6.54	12.12	16.51	0.50	50.234	63	C	7620.5	0.0066
6.2G;D1D (6SD/Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
6.7G;D1D (6SD/Radio 4)	6.98	22.99	27.82	0.50	679.204	63	C	7620.5	0.0892



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 (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001

Note:

Mode	EIRP PSD-AV (dBm/MHz)	OBW (MHz)	EIRP (dBm)	ERP (dBm)
8G;D1D (Radio 7)	-41.59	632.368	-13.58	-15.73

**Simultaneous Transmission Analysis Mode:**

Mode 1: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.96001								
Ratio Limit	1								

Mode 2: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.88851								
Ratio Limit	1								



Mode 3: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G:D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.8G:D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G:D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G:BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.91961								
Ratio Limit	1								

Mode 4: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G:D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.8G:D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G:G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G:G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.97851								
Ratio Limit	1								



Mode 5: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.90701								
Ratio Limit	1								

Mode 6: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G;D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.93811								
Ratio Limit	1								



Mode 7: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.2G;D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.96001								
Ratio Limit	1								

Mode 8: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.2G;D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.88851								
Ratio Limit	1								



Mode 9: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G:D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.2G:D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G:D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.91961								
Ratio Limit	1								

Mode 10: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G:D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.2G:D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.97851								
Ratio Limit	1								



Mode 11: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.2G;D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.90701								
Ratio Limit	1								

Mode 12: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	10.12	25.75	33.72	0.12	2421.029	63	C	7620.5	0.3178
5.2G;D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G;D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.93811								
Ratio Limit	1								



Mode 13: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.96001								
Ratio Limit	1								

Mode 14: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.88851								
Ratio Limit	1								



Mode 15: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G;D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.91961								
Ratio Limit	1								

Mode 16: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.97851								
Ratio Limit	1								



Mode 17: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.90701								
Ratio Limit	1								

Mode 18: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.8G;D1D (Radio 2)	9.47	26.35	33.67	0.17	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G;D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.93811								
Ratio Limit	1								



Mode 19: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.2G;D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.96001								
Ratio Limit	1								

Mode 20: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.2G;D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G;D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G;D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G;D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.88851								
Ratio Limit	1								



Mode 21: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G:D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.2G:D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G:D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G;BT-LE (Radio 5)	6.92	16.62	21.39	0.50	154.525	63	C	7620.5	0.0203
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.91961								
Ratio Limit	1								

Mode 22: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio
4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G:D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.2G:D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
2.4G;G1D (Radio 4)	8.02	23.93	29.80	0.50	1071.519	63	C	7620.5	0.1407
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.97851								
Ratio Limit	1								



Mode 23: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G:D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.2G:D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
5.8G:D1D (Radio 4)	5.90	22.97	26.72	0.50	527.230	63	C	7620.5	0.0692
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.90701								
Ratio Limit	1								

Mode 24: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G:D1D (Radio 1)	8.28	27.58	33.71	0.13	2421.029	63	C	7620.5	0.3178
5.2G:D1D (Radio)	8.67	27.29	33.81	0.03	2421.029	63	C	7620.5	0.3178
6.7G:D1D (Radio 3)	6.85	-	30.45	0.50	1244.515	63	C	7620.5	0.1634
6.2G:D1D (Radio 4)	7.71	22.77	28.33	0.50	763.836	63	C	7620.5	0.1003
2.4G;G1D (Radio 5 / Zigbee)	6.92	19.44	24.21	0.50	295.801	63	C	7620.5	0.0388
8G:D1D (Radio 7)	7.00	-	-15.73	0.50	0.030	63	C	7620.5	0.00001
Sum TL Ratio_C	0.93811								
Ratio Limit	1								

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