



# RADIO EXPOSURE TEST REPORT

**FCC ID** : UDX-600200010  
**Equipment** : Cisco Wireless 9178I Series Wi-Fi 7 Access Point  
**Brand Name** : CISCO  
**Model Name** : CW9178I  
**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 Jan. 17, 2024, and testing was started from Feb. 21, 2024 and completed on Aug. 27, 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: Rex Liao

**Sporton International Inc. Hsinchu Laboratory**

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### Photographs of EUT v01





## 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/manufacturer 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:**

1. 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.
2. The presented declaration output power of UWB for EUT in the report are provided by the manufacturer, and We, Sporton International Inc. Hsinchu Laboratory does not guarantee its accuracy.

**Reviewed by: Sam Chen**

**Report Producer: Cathy Chiu**



# 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	BPSK



### 1.2 Antenna Information

Ant.	Brand Name	Model Name	Antenna Type	Connector	Support Function	Gain (dBi)
1	WNC	95XEAK15.G98	PIFA	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	Note2
2	WNC	95XEAK15.G96	PCB	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	
3	WNC	95XEAK15.G97	PCB	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	
4	WNC	95XEAK15.G99	PIFA	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	
5	WNC	95XEAK15.GA3	PIFA	I-PEX	Radio 3 5GHz UNII 1~3	
6	WNC	95XEAK15.GA1	PCB	I-PEX	Radio 3 5GHz UNII 1~3	
7	WNC	95XEAK15.GA2	PCB	I-PEX	Radio 3 5GHz UNII 1~3	
8	WNC	95XEAK15.GA4	PIFA	I-PEX	Radio 3 5GHz UNII 1~3	
9	WNC	95XEAK15.GA7	PIFA	I-PEX	Radio 4 6GHz UNII 5~8	
10	WNC	95XEAK15.GA5	PCB	I-PEX	Radio 4 6GHz UNII 5~8	
11	WNC	95XEAK15.GA6	PCB	I-PEX	Radio 4 6GHz UNII 5~8	
12	WNC	95XEAK15.GA8	PIFA	I-PEX	Radio 4 6GHz UNII 5~8	
13	WNC	95XEAK15.GAB	PIFA	I-PEX	Radio 5 2.4GHz, 5GHz UNII 1~3 and 6GHz UNII 5~8	
14	WNC	95XEAK15.GAC	PIFA	I-PEX	Radio 5 2.4GHz, 5GHz UNII 1~3 and 6GHz UNII 5~8	
15	WNC	95XEAK15.GA9	PIFA	I-PEX	Radio 6 Bluetooth and Zigbee	
16	WNC	95XEAK15.GBM	PIFA	I-PEX	Radio 7 UWB	
17	WNC	95XEAK15.GBD	PCB	I-PEX	Radio 7 UWB	
18	WNC	95XEAK15.GAA	PIFA	I-PEX	Radio 8 GPS	



Ant.	Port															
	R1: WLAN 2.4GHz			R2: WLAN 5GHz UNII 1~2A			R3: WLAN 5GHz UNII 1~3			R4: WLAN 6GHz UNII 5~8			R5: WLAN 2.4GHz, WLAN 5GHz UNII 1~3, WLAN 6GHz UNII 5~8	R6: Bluetooth /Zigbee	R7: UWB	R8: GPS
	1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX	1TX	1TX	2TX	1RX
1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-
2	-	-	4	-	-	4	-	-	-	-	-	-	-	-	-	-
3	-	2	2	-	2	2	-	-	-	-	-	-	-	-	-	-
4	-	-	3	-	-	3	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-
6	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
11	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Note 1: R means Radio.



Note 2:

Ant.	Antenna Gain (dBi)																	
	R1: WLAN 2.4GHz			R2: WLAN 5GHz UNII 1~2A														
				5.2G			5.3G											
1	2.85			3.51			3.24											
2	3.82			3.53			2.9											
3	3.85			3.93			3.85											
4	2.41			4.97			3.73											
Ant.	R3: WLAN 5GHz UNII 1~3																	
	5.2G			5.3G			5.6G			5.785G								
	5	3.19			2.63			3.54			3.53							
	6	4.83			3.89			4.03			3.86							
	7	4.73			3.86			4.54			3.48							
8	3.64			2.51			3.91			3.45								
Ant.	R4: WLAN 6GHz UNII 5~8																	
	6.175G			6.475G			6.695G			6.995G								
	9	4.69			3.74			4.57			5.38							
	10	4.68			5.42			5.56			4.3							
	11	4.77			4.82			4.67			4.42							
12	4.7			2.33			3.23			3.98								
Ant.	R5: WLAN 2.4GHz/5GHz UNII 1~3/WLAN 6GHz UNII 5~8																	
	2.45G		5.2G		5.3G		5.6G		5.785G		6.175G		6.475G		6.695G		6.995G	
	13	2.17		2.74		3.39		4.78		3.51		3.96		4.67		4.31		4.8
14	1.83		5.46		4.17		6.68		6.06		5.1		4.49		4.37		4.7	
Ant.	R6: Bluetooth/Zigbee																	
	2.91																	
Ant.	R7: UWB																	
	6.3																	
	6.5																	
Ant.	R8: GPS																	
	1.16GHz~1.19GHz					1.56GHz~1.59GHz												
	2.3					4.9												

Note 3:

Item	Directional Gain (dBi)																
	R1: WLAN 2.4GHz			R2: WLAN 5GHz UNII 1~2A													
				5.2G			5.3G										
2T1S	4.47			3.93			3.85										
2T2S	3.85			3.93			3.85										
4T1S	7.01			5.11			4.06										
4T2S	4.01			4.97			3.85										
4T4S	3.85			4.97			3.85										
Item	R3: WLAN 5GHz UNII 1~3 / R4: WLAN 6GHz UNII 5~8																
	5.2G		5.3G		5.6G		5.785G		6.175G		6.475G		6.695G		6.995G		
	2T1S	4.83		3.89		4.03		3.86		4.97		4.82		4.67		4.42	
	2T2S	4.83		3.89		4.03		3.86		4.77		4.82		4.67		4.42	
	4T1S	6.96		5.69		6.34		5.28		6.14		6.09		6.02		5.46	
	4T2S	4.83		3.89		4.54		3.86		4.77		5.42		5.56		5.38	
	4T4S	4.83		3.89		4.54		3.86		4.77		5.42		5.56		5.38	

Note 4: The above information (excepting antenna gain of Radio 1~6) was declared by manufacturer.

Note 5: Radio 1~5: Maximum Directional Gain following KDB662911 D03.





**For WLAN 2.4GHz function (Radio 1):**

**For IEEE 802.11b/g/n/VHT/ax/be mode (1TX,2TX,4TX/4RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

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

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

For 4RX

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

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

**For WLAN 5GHz UNII 1~2A function (Radio 2):**

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

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

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

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

For 4RX

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

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

**For WLAN 5GHz UNII 1~3 function (Radio 3):**

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

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

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

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

For 4RX

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

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

**For WLAN 6GHz UNII 5~8 function (Radio 4):**

**For IEEE 802.11ax/be mode (1TX,2TX,4TX/4RX)**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

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

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

For 4RX

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

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



**For Scanning Radio 5:**

**For WLAN 2.4GHz function:**

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

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

**For WLAN 5GHz UNII 1~3 function:**

**For IEEE 802.11a/n/ac/ax mode (1TX/2RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

**For WLAN 6GHz UNII 5~8:**

**For IEEE 802.11ax mode (1TX/2RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

**For Bluetooth/Zigbee function (Radio 6):**

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

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

**For UWB function (Radio 7):**

**For UWB mode (2TX/4RX):**

For 2TX

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

Port 1 and Port 2 could transmit simultaneously.

For 4RX

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

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

**For GPS function (Radio 8):**

**For GPS mode (1RX):**

Only Port 1 can be used as receiving antenna.

### 1.3 Table for EUT Support Function

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

Note1: For above table list, only AP mode was tested and recorded in this test.

Note2: The above information was declared by manufacturer.



### 1.4 Table for Multiple Listing

Equipment Name	Model Name	Software	Frequencies supported by 320MHz
Cisco Wireless 9178I Series Wi-Fi 7 Access Point	CW9178I	Cisco	6105, 6265, 6425, 6745 MHz
		Meraki	6105, 6265, 6425, 6585, 6745, 6905 MHz

Note: The above information was declared by manufacturer.

### 1.5 Table for Radio function

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

Note1: The above information was declared by manufacturer.

Note2: For WLAN 2.4GHz: The Radio 1 and Radio 5 can't operate at the same frequency.

For WLAN 5GHz: The Radio 2, 3, 5 can't operate at the same frequency.

For WLAN 6GHz: The Radio 4 and Radio 5 can't operate at the same frequency simultaneously.

### 1.6 Table for EUT Operation Function

Mode	Operation Function
1	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 2.4GHz+R6: Bluetooth+R7: UWB
2	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 5GHz+R6: Bluetooth+R7: UWB
3	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 6GHz+R6: Bluetooth+R7: UWB
4	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 2.4GHz+R6: Zigbee+R7: UWB
5	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 5GHz+R6: Zigbee+R7: UWB
6	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 6GHz+R6: Zigbee+R7: UWB

Note: The above information was declared by manufacturer.



### 1.7 Accessories

Accessories
Bracket 1*1
Bracket 2*1

### 1.8 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

### 1.9 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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	*(100)	<6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<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 <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<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 58 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

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



### 2.3 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 <sup>2</sup> .
1.34-30	3,450 R <sup>2</sup> /f <sup>2</sup> .
30-300	3.83 R <sup>2</sup> .
300-1,500	0.0128 R <sup>2</sup> f.
1,500-100,000	19.2R <sup>2</sup> .

Note: R is in meters, f is in MHz.



## 2.4 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

### <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	7.01	27.07	31.93	0.50	1749.847	58	C	6458.9	0.2710

### <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	5.11	27.74	30.70	0.50	1318.257	58	C	6458.9	0.2042
5.3G;D1D	4.06	23.88	25.79	0.50	425.598	58	C	6458.9	0.0659

### <Radio 3>

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	6.96	27.36	32.17	0.50	1849.269	58	C	6458.9	0.2864
5.3G;D1D	5.69	23.90	27.44	0.40	608.135	58	C	6458.9	0.0942
5.6G;D1D	6.34	23.59	27.78	0.06	608.135	58	C	6458.9	0.0942
5.8G;D1D	5.28	27.71	30.84	0.50	1361.445	58	C	6458.9	0.2109

### <Radio 4>

For Indoor Access Point:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.14	-	26.97	0.50	558.470	58	C	6458.9	0.0865
6.4G;D1D	6.09	-	26.07	0.50	453.942	58	C	6458.9	0.0703
6.7G;D1D	6.02	-	27.12	0.50	578.096	58	C	6458.9	0.0895
7.0G;D1D	5.38	-	22.16	0.50	184.502	58	C	6458.9	0.0286

For Standard Power Access Point:

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.14	-	29.39	0.50	974.990	58	C	6458.9	0.1510
6.7G;D1D	6.02	-	29.58	0.50	1018.591	58	C	6458.9	0.1578



**<Radio 5>**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.17	24.02	24.04	0.50	284.446	58	C	6458.9	0.0441
5.2G;D1D	2.74	21.81	22.40	0.50	194.984	58	C	6458.9	0.0302
5.3G;D1D	3.39	21.57	22.81	0.50	214.289	58	C	6458.9	0.0332
5.6G;D1D	4.78	22.19	24.82	0.50	340.408	58	C	6458.9	0.0527
5.8G;D1D	3.51	22.98	24.34	0.50	304.789	58	C	6458.9	0.0472

**For Indoor Access Point:**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	3.96	13.30	15.11	0.50	36.392	58	C	6458.9	0.0056
6.4G;D1D	4.67	12.88	15.40	0.50	38.905	58	C	6458.9	0.0060
6.7G;D1D	4.31	13.00	15.16	0.50	36.813	58	C	6458.9	0.0057
7.0G;D1D	4.80	13.47	16.12	0.50	45.920	58	C	6458.9	0.0071

**For Standard Power Access Point:**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	3.96	23.18	24.99	0.50	353.997	58	C	6458.9	0.0548
6.7G;D1D	4.31	23.03	25.19	0.50	370.681	58	C	6458.9	0.0574

**<Radio 6>**

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	2.91	15.88	16.64	0.50	51.761	58	C	6458.9	0.0080
2.4G;Zigbee	2.91	19.61	20.37	0.50	122.180	58	C	6458.9	0.0189

**<Radio 7>**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
8G;D1D	6.50	-	-15.81	0.50	0.029	58	C	6458.9	0.00001





Simultaneous Transmission Analysis Mode:

Mode 1: R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 2.4GHz +R6: Bluetooth+R7: UWB

Table with 10 columns: Mode, DG (dBi), Power (dBm), ERP (dBm), Tolerance (dB), Tune-up ERP (mW), Distance (cm), Option, TL ERP (mW), TL Ratio. Rows include various frequency bands (2.4G, 5.2G, 6.7G, 8G) and a Sum TL Ratio\_C row.

Mode 2: R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 5GHz +R6: Bluetooth+R7: UWB

Table with 10 columns: Mode, DG (dBi), Power (dBm), ERP (dBm), Tolerance (dB), Tune-up ERP (mW), Distance (cm), Option, TL ERP (mW), TL Ratio. Rows include various frequency bands (2.4G, 5.2G, 6.7G, 5.6G, 8G) and a Sum TL Ratio\_C row.

Mode 3: R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 6GHz +R6: Bluetooth+R7: UWB

Table with 10 columns: Mode, DG (dBi), Power (dBm), ERP (dBm), Tolerance (dB), Tune-up ERP (mW), Distance (cm), Option, TL ERP (mW), TL Ratio. Rows include various frequency bands (2.4G, 5.2G, 6.7G, 8G) and a Sum TL Ratio\_C row.



**Mode 4: R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 2.4GHz  
+R6: Zigbee+R7: 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	7.01	27.07	31.93	0.50	1749.847	58	C	6458.9	0.2710
5.2G;D1D	5.11	27.74	30.70	0.50	1318.257	58	C	6458.9	0.2042
5.2G;D1D	6.96	27.36	32.17	0.50	1849.269	58	C	6458.9	0.2864
6.7G;D1D	6.02	-	29.58	0.50	1018.591	58	C	6458.9	0.1578
2.4G;G1D	2.17	24.02	24.04	0.50	284.446	58	C	6458.9	0.0441
2.4G;	2.91	19.61	20.37	0.50	122.180	58	C	6458.9	0.0189
8G;D1D	6.50	-	-15.81	0.50	0.029	58	C	6458.9	0.00001
Sum TL Ratio_C	0.98241								
Ratio Limit	1								

**Mode 5: R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 5GHz  
+R6: Zigbee+R7: 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	7.01	27.07	31.93	0.50	1749.847	58	C	6458.9	0.2710
5.2G;D1D	5.11	27.74	30.70	0.50	1318.257	58	C	6458.9	0.2042
5.2G;D1D	6.96	27.36	32.17	0.50	1849.269	58	C	6458.9	0.2864
6.7G;D1D	6.02	-	29.58	0.50	1018.591	58	C	6458.9	0.1578
5.6G;D1D	4.78	22.19	24.82	0.50	340.408	58	C	6458.9	0.0527
2.4G;	2.91	19.61	20.37	0.50	122.180	58	C	6458.9	0.0189
8G;D1D	6.50	-	-15.81	0.50	0.029	58	C	6458.9	0.00001
Sum TL Ratio_C	0.99101								
Ratio Limit	1								

**Mode 6: R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 6GHz  
+R6: Zigbee+R7: 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	7.01	27.07	31.93	0.50	1749.847	58	C	6458.9	0.2710
5.2G;D1D	5.11	27.74	30.70	0.50	1318.257	58	C	6458.9	0.2042
5.2G;D1D	6.96	27.36	32.17	0.50	1849.269	58	C	6458.9	0.2864
6.7G;D1D	6.02	-	29.58	0.50	1018.591	58	C	6458.9	0.1578
6.7G;D1D	4.31	23.03	25.19	0.50	370.681	58	C	6458.9	0.0574
2.4G;	2.91	19.61	20.37	0.50	122.180	58	C	6458.9	0.0189
8G;D1D	6.50	-	-15.81	0.50	0.029	58	C	6458.9	0.00001
Sum TL Ratio_C	0.99611								
Ratio Limit	1								

Note: The above antenna gain was declared by manufacturer.

—————THE END—————