



Radio Exposure Evaluation Report

FCC ID : TOR-C460
Equipment : Wireless Access Point
Brand Name : ARISTA
Model Name : C-460E
Applicant : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054 USA
Manufacturer : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA 95054 USA
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on May 23, 2024, and testing was started from May 28, 2024 and completed on Mar. 25, 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 variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

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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	-

Declaration of Conformity:

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

Comments and Explanations:

None

Reviewed by: Ryan Hsiao

Report Producer: Amber Chiu



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 UNII 5&7	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)
6GHz WLAN UNII 5~7	5925-6875	5955-6855	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)



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	WHAYU	C393-510293-A	Dipole	Reverse SMA	2.4G+5G+6E	Radio 1_2.4G Radio 3_5G Radio 2_6E
2	WHAYU	C393-510293-A	Dipole	Reverse SMA	2.4G+5G+6E	
3	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	
4	WHAYU	C393-510293-A	Dipole	Reverse SMA	2.4G+5G+6E	Radio 1_2.4G Radio 3_5G Radio 2_6E
5	WHAYU	C393-510293-A	Dipole	Reverse SMA	2.4G+5G+6E	
6	WHAYU	C393-510225-A	Dipole	Reverse SMA	2.4G+5G+6E	Radio 0_Scan
7	WHAYU	C393-510296-A	Dipole	I-Pex	BT	-
8	WHAYU	C393-510296-A	PIFA	I-Pex	GPS	-
9	WHAYU	C393-510293-A	Dipole	Reverse SMA	2.4G+5G+6E	Radio 0_Scan
10	WHAYU	C393-510293-A	Dipole	Reverse SMA	2.4G+5G+6E	Radio 0_Scan

Ant.	Port	Gain (dBi)										
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	GPS
1	1	2.08	1.95	1.48	2.41	2.41	2.37	2.47	3.64	-	-	-
2	2	2.08	1.95	1.48	2.41	2.41	2.37	2.47	3.64	-	-	-
3	1	4	6	6	6	6	5.1	5.1	5.1	-	-	-
4	3	2.08	1.95	1.48	2.41	2.41	2.37	2.47	3.64	-	-	-
5	4	2.08	1.95	1.48	2.41	2.41	2.37	2.47	3.64	-	-	-
6	2	4	5	5	5	5	5.3	5.3	5.3	-	-	-
7	1	-	-	-	-	-	-	-	-	-	5.5	
8	1	-	-	-	-	-	-	-	-	-	-	4.5
9	1	2.08	1.95	1.48	2.41	2.41	2.37	2.47	3.64	-	-	-
10	2	2.08	1.95	1.48	2.41	2.41	2.37	2.47	3.64	-	-	-

Note 1: The EUT has ten antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX) < Radio 0 >

Ant. 3 (port 1) and Ant. 6 (port 2) could receive simultaneously.

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

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

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

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (2TX/2RX) < Radio 0 >

Ant. 3 (port 1) and Ant. 6 (port 2) could receive simultaneously.

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

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) < Radio 3 >

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



For 6GHz function:

For IEEE 802.11axmode (2TX/2RX) < **Radio 0** >

Ant. 3 (port 1) and Ant. 6 (port 2) could receive simultaneously.

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

For IEEE 802.11 ax/be mode (4TX/4RX) < **Radio 2** >

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

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 7 could transmit/receive.

Note 2: Directional gain information

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA392143-08

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

Modifications	Performance Checking
Replacement of FEM module with alternative component. (Radio 1, Radio 2, Radio 3)	All RF Item
Antenna was added. (C393-510293-A)	
Antenna C393-510225-A (Radio 1, Radio 2, Radio 3) was removed and replaced by C393-510293-A.	

1.1.4 Accessories

Accessories				
Ceiling	Brand Name	ARISTA	Model Name	MNT-AP-15MM

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. Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 2.4GHz) + Bluetooth
2. Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 5GHz) + Bluetooth
3. Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 6GHz) + Bluetooth

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)	$P_{th}(mW) = \begin{cases} ERP_{20cm} (d / 20cm)^x \rightarrow d \leq 20cm \\ ERP_{20cm} \rightarrow 20cm < d \leq 40cm \end{cases}$ $x = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$ $\begin{cases} ERP_{20cm} : 0.3GHz \leq f < 1.5GHz \rightarrow 2040 f(mW) \\ ERP_{20cm} : 1.5GHz \leq f \leq 6GHz \rightarrow 3060(mW) \end{cases}$
C	§1.1307(b)(3)(i)(C)	$\begin{cases} 0.3 \sim 1.34MHz \rightarrow ERP(W) = 1920 R^2 \\ 1.34 \sim 30MHz \rightarrow ERP(W) = 3450 R^2 / f^2 \\ 30 \sim 300MHz \rightarrow ERP(W) = 3.83R^2 \\ 300 \sim 1500MHz \rightarrow ERP(W) = 0.0128 R^2 f \\ 1500 \sim 100000MHz \rightarrow ERP(W) = 19.2R^2 \end{cases}$ 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 37 cm to show compliance with the power density limit.
The following formula was used to calculate the Power Density:

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

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

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

The formula can be changed to

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

2.5 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

WLAN 2.4GHz_Radio 0_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	4.00	19.83	23.83	0.50	165.2380	37.00	0.01575	1.00000	B	3060.000	0.0540
2.4G;D1D	4.00	20.59	24.59	0.50	196.8385	37.00	0.01877	1.00000	B	3060.000	0.0643

WLAN 2.4GHz_Radio 1_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.08	23.69	25.77	0.50	258.2914	37.00	0.02463	1.00000	B	3060.000	0.0844
2.4G;D1D	2.08	23.35	25.43	0.50	238.8416	37.00	0.02277	1.00000	B	3060.000	0.0781

WLAN 5GHz_Radio 0_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	6.00	20.55	26.55	0.50	309.11	37.00	0.02947	1.00000	B	3060.000	0.1010
5.3G;D1D	6.00	20.50	26.50	0.50	305.57	37.00	0.02913	1.00000	B	3060.000	0.0999
5.6G;D1D	6.00	20.57	26.57	0.50	310.53	37.00	0.02961	1.00000	B	3060.000	0.1015
5.8G;D1D	6.00	20.50	26.50	0.50	305.57	37.00	0.02913	1.00000	B	3060.000	0.0999

WLAN 5GHz_Radio 3_Full RU_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	1.95	21.42	23.37	0.50	148.63	37.00	0.01417	1.00000	B	3060.000	0.0486
5.3G;D1D	1.48	21.24	22.72	0.50	127.97	37.00	0.01220	1.00000	B	3060.000	0.0418
5.6G;D1D	2.41	20.97	23.38	0.50	148.97	37.00	0.01420	1.00000	B	3060.000	0.0487
5.8G;D1D	2.41	21.59	24.00	0.50	171.83	37.00	0.01638	1.00000	B	3060.000	0.0562

WLAN 5GHz_Radio 3_Multi-RU_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	1.95	17.96	19.91	0.50	67.01	37.00	0.00639	1.00000	B	3060.000	0.0219
5.3G;D1D	1.48	18.81	20.29	0.50	73.13	37.00	0.00697	1.00000	B	3060.000	0.0239
5.6G;D1D	2.41	18.60	21.01	0.50	86.32	37.00	0.00823	1.00000	B	3060.000	0.0282
5.8G;D1D	2.41	18.09	20.50	0.50	76.76	37.00	0.00732	1.00000	B	3060.000	0.0251

**WLAN 5GHz_Radio 3_Channel Puncturing_Non-Beamforming**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	1.95	17.96	19.91	0.50	67.01	37.00	0.00639	1.00000	B	3060.000	0.0219
5.3G;D1D	1.48	18.81	20.29	0.50	73.13	37.00	0.00697	1.00000	B	3060.000	0.0239
5.6G;D1D	2.41	18.60	21.01	0.50	86.32	37.00	0.00823	1.00000	B	3060.000	0.0282
5.8G;D1D	2.41	18.09	20.50	0.50	76.76	37.00	0.00732	1.00000	B	3060.000	0.0251

WLAN 6GHz_Radio 0_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	5.30	18.57	23.87	0.50	166.77	37.00	0.01590	1.00000	C	2628.480	0.0634
6.7G;D1D	5.30	18.56	23.86	0.50	166.38	37.00	0.01586	1.00000	C	2628.480	0.0633

WLAN 6GHz_Radio 2_Full RU_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	2.37	21.26	23.63	0.50	157.80	37.00	0.01504	1.00000	C	2628.480	0.0600
6.7G;D1D	3.64	20.41	24.05	0.50	173.82	37.00	0.01657	1.00000	C	2628.480	0.0661

WLAN 6GHz_Radio 2_Multi-RU_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	2.37	18.75	21.12	0.50	88.53	37.00	0.00844	1.00000	C	2628.480	0.0337
6.7G;D1D	3.64	17.93	21.57	0.50	98.20	37.00	0.00936	1.00000	C	2628.480	0.0374

WLAN 6GHz_Radio 2_Channel Puncturing_Non-Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	2.37	19.94	22.31	0.50	116.44	37.00	0.01110	1.00000	C	2628.480	0.0443
6.7G;D1D	3.64	18.93	22.57	0.50	123.63	37.00	0.01179	1.00000	C	2628.480	0.0470

Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	5.50	9.80	15.30	0.50	23.1798	37.00	0.00221	1.00000	B	3060.000	0.0076

**WLAN 2.4GHz_Radio 0_Beamforming**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	7.01	20.47	27.48	0.50	382.92	37.00	0.03651	1.00000	B	3060.000	0.1251

WLAN 2.4GHz_Radio 1_Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	8.10	23.35	31.45	0.50	955.23	37.00	0.09107	1.00000	B	3060.000	0.3122

WLAN 5GHz_Radio 0_Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	8.52	20.42	28.94	0.50	535.93	37.00	0.05110	1.00000	B	3060.000	0.1751
5.3G;D1D	8.52	20.39	28.91	0.50	532.24	37.00	0.05074	1.00000	B	3060.000	0.1739
5.6G;D1D	8.52	20.44	28.96	0.50	538.41	37.00	0.05133	1.00000	B	3060.000	0.1759
5.8G;D1D	8.52	20.39	28.91	0.50	532.24	37.00	0.05074	1.00000	B	3060.000	0.1739

WLAN 5GHz_Radio 3_Full RU_Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	7.97	21.42	29.39	0.50	594.44	37.00	0.05667	1.00000	B	3060.000	0.1943
5.3G;D1D	7.50	21.24	28.74	0.50	511.81	37.00	0.04880	1.00000	B	3060.000	0.1673
5.6G;D1D	8.43	20.97	29.40	0.50	595.81	37.00	0.05681	1.00000	B	3060.000	0.1947
5.8G;D1D	8.43	21.59	30.02	0.50	687.24	37.00	0.06552	1.00000	B	3060.000	0.2246

WLAN 6GHz_Radio 0_Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	8.21	18.43	26.64	0.50	315.58	37.00	0.03009	1.00000	C	2628.480	0.1201
6.7G;D1D	8.21	18.43	26.64	0.50	315.58	37.00	0.03009	1.00000	C	2628.480	0.1201

WLAN 6GHz_Radio 2_Full RU_Beamforming

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	8.39	21.26	29.65	0.50	631.12	37.00	0.06017	1.00000	C	2628.480	0.2401
6.7G;D1D	9.66	20.41	30.07	0.50	695.20	37.00	0.06628	1.00000	C	2628.480	0.2645

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:****Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 2.4GHz) + Bluetooth**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	8.10	23.35	31.45	0.50	955.23	37.00	0.09107	1.00000	B	3060.000	0.3122
5.8G;D1D	8.43	21.59	30.02	0.50	687.24	37.00	0.06552	1.00000	B	3060.000	0.2246
6.7G;D1D	9.66	20.41	30.07	0.50	695.20	37.00	0.06628	1.00000	C	2628.480	0.2645
2.4G;BT-LE	5.50	9.80	15.30	0.50	23.18	37.00	0.00221	1.00000	B	3060.000	0.0076
2.4G;D1D	7.01	20.47	27.48	0.50	382.92	37.00	0.03651	1.00000	B	3060.000	0.1251
										Sum Ratio	0.9340
										Ratio Limit	1

Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 5GHz) + Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	8.10	23.35	31.45	0.50	955.23	37.00	0.09107	1.00000	B	3060.000	0.3122
5.8G;D1D	8.43	21.59	30.02	0.50	687.24	37.00	0.06552	1.00000	B	3060.000	0.2246
6.7G;D1D	9.66	20.41	30.07	0.50	695.20	37.00	0.06628	1.00000	C	2628.480	0.2645
2.4G;BT-LE	5.50	9.80	15.30	0.50	23.18	37.00	0.00221	1.00000	B	3060.000	0.0076
5.6G;D1D	8.52	20.44	28.96	0.50	538.41	37.00	0.05133	1.00000	B	3060.000	0.1759
										Sum Ratio	0.9848
										Ratio Limit	1

Radio 1 + Radio 3 + Radio 2 + Radio 0 (WLAN 6GHz) + Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	8.10	23.35	31.45	0.50	955.23	37.00	0.09107	1.00000	B	3060.000	0.3122
5.8G;D1D	8.43	21.59	30.02	0.50	687.24	37.00	0.06552	1.00000	B	3060.000	0.2246
6.7G;D1D	9.66	20.41	30.07	0.50	695.20	37.00	0.06628	1.00000	C	2628.480	0.2645
2.4G;BT-LE	5.50	9.80	15.30	0.50	23.18	37.00	0.00221	1.00000	B	3060.000	0.0076
6.2G;D1D	8.21	18.43	26.64	0.50	315.58	37.00	0.03009	1.00000	C	2628.480	0.1201
										Sum Ratio	0.9290
										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————