



RF EXPOSURE EVALUATION REPORT

FCC ID : 2AEM4-17731221
Equipment : Wireless Router
Brand Name : eero
Model Name : ME10001
Applicant : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, United States
Manufacturer : eero LLC
660 3rd St Fl 4, San Francisco, California, 94107, United States
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

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Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA480504	Rev. 01	Initial issue of report	Nov. 21, 2024
FA480504	Rev. 02	Update section 4.1	Dec. 02, 2024

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Wireless Router
Brand Name	eero
Model Name	ME10001
FCC ID	2AEM4-17731221
Wireless Technology and Frequency Range	WLAN 2.4 GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2 GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3 GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6 GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8 GHz Band: 5725 MHz ~ 5850 MHz WLAN 6E: 5925 MHz ~ 6425 MHz, 6425 MHz ~ 6525 MHz, 6525 MHz ~ 6875 MHz, 6875 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz IEEE 802.15.4: 2405 MHz ~ 2480 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax/be HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth LE IEEE 802.15.4: BPSK

Reviewed by: Jason Wang

Report Producer: Carlie Tsai

2. Maximum RF average output power among production units

Mode		Tune-up (dBm)
SISO	WLAN 2.4GHz	24.5
	WLAN 5.2GHz	23.5
	WLAN 5.3GHz	23.5
	WLAN 5.5GHz	23.98
	WLAN 5.8GHz	24.0
	WLAN 6GHz	25.0
MIMO	WLAN 2.4GHz	27.5
	WLAN 5.2GHz	26.5
	WLAN 5.3GHz	23.98
	WLAN 5.5GHz	23.98
	WLAN 5.8GHz	27.5
	WLAN 6GHz	27.0
Bluetooth LE		18.0
IEEE 802.15.4		18.5

3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
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				
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

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:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

4. Radio Frequency Radiation Exposure Evaluation

4.1. Standalone Power Density Calculation

Band		Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
SISO	WLAN2.4GHz Band	3.40	24.50	27.90	616.60	0.123	1.000	0.123
	WLAN5.2GHz Band	2.77	23.50	26.27	423.64	0.084	1.000	0.084
	WLAN5.3GHz Band	3.42	23.50	26.92	492.04	0.098	1.000	0.098
	WLAN5.5GHz Band	4.15	23.98	28.13	650.13	0.129	1.000	0.129
	WLAN5.8GHz Band	4.30	24.00	28.30	676.08	0.135	1.000	0.135
	WLAN6GHz Band	4.29	25.00	29.29	849.18	0.169	1.000	0.169
MIMO	WLAN2.4GHz Band	1.48	27.50	28.98	790.68	0.157	1.000	0.157
	WLAN5.2GHz Band	1.49	26.50	27.99	629.51	0.125	1.000	0.125
	WLAN5.3GHz Band	1.49	23.98	25.47	352.37	0.070	1.000	0.070
	WLAN5.5GHz Band	2.15	23.98	26.13	410.20	0.082	1.000	0.082
	WLAN5.8GHz Band	2.32	27.50	29.82	959.40	0.191	1.000	0.191
	WLAN6GHz Band	2.88	27.00	29.88	972.75	0.194	1.000	0.194
Bluetooth LE		4.57	18.00	22.57	180.72	0.036	1.000	0.036
IEEE 802.15.4		4.57	18.50	23.07	202.77	0.040	1.000	0.040

4.2. Collocated Power Density Calculation

WLAN 2.4GHz Power Density / Limit	WLAN 5GHz Power Density / Limit	WLAN 6GHz Power Density / Limit	Σ (Power Density / Limit) of WLAN 2.4GHz + 5GHz + 6GHz
0.157	0.191	0.194	0.542

Bluetooth Power Density / Limit	WLAN 5GHz Power Density / Limit	WLAN 6GHz Power Density / Limit	Σ (Power Density / Limit) of Bluetooth + WLAN 5GHz + 6GHz
0.036	0.191	0.194	0.421

IEEE 802.15.4 Power Density / Limit	WLAN 5GHz Power Density / Limit	WLAN 6GHz Power Density / Limit	Σ (Power Density / Limit) of IEEE 802.15.4 + WLAN 5GHz + 6GHz
0.036	0.191	0.194	0.422

Note:

- Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)], for WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz, Bluetooth + WLAN 5GHz + WLAN 6GHz, IEEE 802.15.4 + WLAN 5GHz + WLAN 6GHz.
- Considering the WLAN 5GHz and 6GHz collocation with the WLAN 2.4GHz, IEEE 802.15.4 and Bluetooth transmitters, based on the EIRP performance listed in the table above, the aggregated (power density/limit) is smaller than 1, and MPE of the 3 collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.