RF EXPOSURE EVALUATION REPORT

FCC ID	:	**2AEM4-71213573**
Equipment	:	**Wireless router/access point**
Brand Name	:	**eero**
Model Name	:	**S010001**
Applicant	:	**eero LLC** **660 3rd Street, 4th Floor, San Francisco, CA 94107**
Manufacturer	:	**eero LLC** **660 3rd Street, 4th Floor, San Francisco, CA 94107**
Standard	:	**47 CFR Part 1.1307**

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 1.1307 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full

Cona Huang

Approved by: Cona Huang / Deputy Manager

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History of this test report

Report No.	Version	Description	Issued Date
FA210727001	Rev. 01	Initial issue of report	Dec. 14, 2021
FA210727001	Rev. 02	Remove VHT160 and HE160 from page 4	Dec. 20, 2021

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Wireless router/access point
Brand Name	eero
Model Name	S010001
FCC ID	2AEM4-71213573
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.8GHz Band: 5725 MHz ~ 5885 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz Zigbee: 2405 MHz ~ 2475 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/HE20/HE40/HE80 Bluetooth LE Zigbee: BPSK
SW Version	eeroOS v.6.8
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Reviewed by: Jason Wang

Report Producer: Daisy Peng

2. Maximum RF average output power

Band / Channel / Frequency (MHz)	Maximum Average Power (dBm)
Bluetooth	18.70
2.4GHz WLAN	29.96
5.2GHz WLAN	27.75
5.8GHz WLAN	29.97
Zigbee	17.50

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/f2)	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/f2)	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 22 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 EIRP (W)	Average EIRP (mW)	Power Density at 22cm (mW/cm^2)	Limit (mW/cm^2)
WLAN2.4GHz Band	4.85	29.96	34.8	3.03	3026.91	0.498	1.000
WLAN5.2GHz Band	5.71	27.75	33.5	2.22	2218.20	0.365	1.000
WLAN5.8GHz Band	5.71	29.97	35.7	3.70	3698.28	0.608	1.000
Bluetooth	3.24	18.70	21.9	0.16	156.31	0.026	1.000
Zigbee	3.24	17.50	20.7	0.12	118.58	0.020	1.000

Conclusion:

According to 47 CFR §1.1307, the RF exposure analysis concludes that the RF Exposure is FCC compliant.