

RF Exposure

Applicant : Globe Electric Company Inc.
Address : 150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Product Name : Smart Beacon Strip Light, RGB, 12V Adapter, 16.4ft/5m
Brand Mark : globe
Model : GL50619
FCC ID : 2AQUQGE50619A
Report Number : BLA-EMC-202601-A11502
Date of Receipt : Jan. 28, 2026
Date of Test : Jan. 28, 2026 to Feb. 11, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

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Review by:

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Approved by:

Blue Zheng

Issued Date: Feb. 11, 2026

BlueAsia Technical Services(Shenzhen) Co., Ltd.

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China



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Revise Record

Version No.	Date	Description
01	Feb. 11, 2026	Original

1 General information

1.1 General information

Applicant	Globe Electric Company Inc.
Address	150 Oneida, Montreal, Quebec, Canada, H9R 1A8
Manufacturer	NINGBO HOMEMATE PRODUCTS CO., LTD
Address	HOMEMATE PLAZA, NO.1066-1 SANWU ROAD, ZHENHAI, NINGBO CHINA
Factory	N/A
Address	N/A

1.2 General description of EUT

Product name	Smart Beacon Strip Light, RGB, 12V Adapter, 16.4ft/5m
Model no.	GL50619
Series model	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB antenna
Antenna Gain:	2.19dBi(Provided by customer)
Power supply or adapter information	Adapter: Model no: HH0012J-120100-CU Input: 100-240V~50/60Hz 0.4A Max Output: 12.0V=1.0A
Hardware version	N/A
Software version	N/A
Engineer sample no.	BLA-EMC-202601-A115

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia Technical Services(Shenzhen) Co., Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
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3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

3.3 Result

$$\text{EIRP} = p_t \times g_t = (E \times d)^2 / 30$$

Where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (E \times d)^2 / 30 \times g_t$$

Separation distance = 20cm

Ant gain = 2.19dBi

For BLE(Worst):

Max Output power = -0.939dBm @ 2402MHz BLE2M

$$\text{EIRP} = -0.939\text{dBm} + 2.19\text{dBi} = 1.251\text{dBm} = 1.334\text{mW} < 3060\text{mW}$$

$$\text{ERP} = 1.251 - 2.15 = -0.899\text{dBm}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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