

# RF Exposure

<b>Applicant</b>	: FUNLOGY Inc.
<b>Address</b>	: Ereruchibaminato Building 6F, 1-1, Tonyacho, Chuo-ku, Chiba-shi, Chiba-ken, 260-0025, Japan
<b>Product Name</b>	: Bluetooth speaker
<b>Brand Mark</b>	: FUNLOGY
<b>Model</b>	: FL01M
<b>FCC ID</b>	: 2BRG4-FL01M
<b>Report Number</b>	: BLA-EMC-202508-A5803
<b>Date of Receipt</b>	: Aug. 12, 2025
<b>Date of Test</b>	: Aug. 12, 2025 to Aug. 22, 2025
<b>Test Standard</b>	: 47 CFR Part 15, Part1.1307 KDB447498D04 General RF Exposure Guidance v01
<b>Test Result</b>	: Pass

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Review by: *Xavier*

Approved by: *Blue Zheng*

Issued Date: Aug 22, 2025

**BlueAsia of Technical Services(Shenzhen) Co., Ltd.**

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China



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## Revise Record

Version No.	Date	Description
01	Aug. 22, 2025	Original

BlueAsia

## 1 General information

### 1.1 General information

Applicant	FUNLOGY Inc.
Address	Ereruchibaminato Building 6F, 1-1, Tonyacho, Chuo-ku, Chiba-shi, Chiba-ken, 260-0025, Japan
Manufacturer	WALSEN PRODUCT LIMITED
Address	RM 812, 8/F HARRY IND BLDG, NO 49-51 AU PUI WAN ST, FOTAN NT, HONG KONG
Factory	N/A
Address	N/A

### 1.2 General description of EUT

Product name	Bluetooth speaker
Model no.	FL01M
Series model	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PCB antenna
Antenna Gain:	-0.58dBi(Provided by customer)
Power supply or adapter information	DC3.7V by battery
Hardware Version	FL01M-V1.0
Software Version	soundbox_v170_standard

*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 of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, 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 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

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

Where:

pt = transmitter output power in watts,

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

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (\text{Exd})^2/30 \times \text{gt}$$

Separation distance = 0.5cm

Ant gain = -0.58dBi

For BT(Worst):

Max Output power = -1.017dBm @ 8DPSK 2480MHz

EIRP = -1.017dBm -0.58 dBi = -1.597dBm = 0.692mW < 2.717mW

ERP = -1.597-2.15 = -3.747dBm

Comply with RF exposure exemption limit.

----END OF REPORT----

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