

RF Exposure

Applicant : Shenzhen LiteTrace Technologies Co., Ltd.
Address : 305 Suite C, 3151 Shahe West Street Jianxing
Technology Plaza | Nanshan, Shenzhen, China
Product Name : External BLE Emergency Signal Controller
Brand Mark : Keilton+autani
Model : EXTEC-FHM
Series model : EXTEC
Report Number : BLA-EMC-202510-A9003
FCC ID : 2A26YEXTEC
Date of Receipt : Nov. 04,2025
Date of Test : Nov. 11,2025 to Dec. 01,2025
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

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Approved by:

J. Zheng

Issued Date:

Dec. 02,2025



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

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Table of Contents

1 General information	4
1.1 General information	4
1.2 General description of EUT	4
2 Laboratory and accreditations	5
3 RF Exposure Compliance Requirement	6
3.1 Standard Requirement	6
3.2 Limits	6
3.3 Result	7

Revise Record

Version No.	Date	Description
01	Dec. 02,2025	Original

1 General information

1.1 General information

Applicant	Shenzhen LiteTrace Technologies Co., Ltd.
Address	305 Suite C, 3151 Shahe West Street Jianxing Technology Plaza Nanshan, Shenzhen, China
Manufacturer	Shenzhen LiteTrace Technologies Co., Ltd.
Address	305 Suite C, 3151 Shahe West Street Jianxing Technology Plaza Nanshan, Shenzhen, China
Factory	Shenzhen LiteTrace Technologies Co., Ltd.
Address	305 Suite C, 3151 Shahe West Street Jianxing Technology Plaza Nanshan, Shenzhen, China

1.2 General description of EUT

Product name	External BLE Emergency Signal Controller
Model no.	EXTEC-FHM
Series model	EXTEC
Differences of Series model	Their electrical circuit design layout, components used and internal wiring are identical, Only the model name are different.
Power supply or adapter information	DC 5V from PC
Hardware version	1.0
Software version	1.0
Engineer sample no.	BLA-EMC-202510-A90

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

For BLE

Operation Frequency	2402MHz-2480MHz
Modulation Type	GFSK
Rate data	1Mbps; 2Mbps
Channel Spacing	2MHz
Number of Channels	40
Antenna Type	External antenna
Antenna Gain	3.51dBi(Provided by customer)

2 Laboratory and accreditations

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

FCC	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
	A2LA Cert. No.:	5071.01
	FCC Designation No.:	CN1252
	Test Firm Registration Number:	923526
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

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

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

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

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Limit of Pth(mW)	Result
BLE 2M	2402	0.826	1.21	3.51	2.186	1.65	3060.00	Pass

$ERP = \text{Max Output power} + \text{Ant gain} - 2.15$

Comply with RF exposure exemption limit.

----END OF REPORT----

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