

RF Exposure Evaluation Report

Product : SenseCAP Asset Tracker T2000-B
Trade mark : Seeed Studio
Model/Type reference : SenseCAP Asset Tracker T2000-B
Serial Number : N/A
Report Number : EED32S80401306
FCC ID : Z4T-T2000B
Date of Issue : Apr, 13, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Seeed Technology Co.,Ltd
9F,Building G3,TCL International E city,Shuguang Community,Xili
street,Nanshan,Shenzhen, Guangdong Province, P.R.C

Prepared by:

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2 General Information

2.1 Client Information

Applicant:	Seeed Technology Co.,Ltd
Address of Applicant:	9F,Building G3,TCL International E city,Shuguang Community,Xili street,Nanshan,Shenzhen, Guangdong Province, P.R.C
Manufacturer:	Seeed Technology Co.,Ltd
Address of Manufacturer:	9F,Building G3,TCL International E city,Shuguang Community,Xili street,Nanshan,Shenzhen, Guangdong Province, P.R.C
Factory:	Shenzhen Xinxian Technology Co.,Limited.
Address of Factory:	5th Floor,102 first Floor,Building B17,HengfengIndustrial town No.739 Zhoushi Road,Hangcheng Street,Bao'an District,Shenzhen

2.2 General Description of EUT

Product Name:	SenseCAP Asset Tracker T2000-B
Model No.(EUT):	SenseCAP Asset Tracker T2000-B
Trade Mark:	Seeed Studio

2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz LR-DTS 1.5235MHz Bandwidth: 903-914.2MHz LoRa(DTS) 500KHz Bandwidth: 903-914.2MHz LoRa(FHSS) 125KHz Bandwidth: 902.3-914.9MHz SubG CSS 500KHz Bandwidth: 902.5-927.3MHz	
Modulation Type:	BLE: GFSK 900MHz: LR-DTS/LoRa/FSK	
Test Power Grade:	Default	
Test Software of EUT:	MobaXterm_Personal_22.1.exe	
Antenna Type:	FPC antenna	
Antenna Gain:	BLE: 1.24dBi 900MHz: -4.56 dBi	
Power Supply:	Battery:	DC 3.6V
Sample Received Date:	Mar. 02, 2026	
Sample tested Date:	Mar. 02, 2026 to Apr. 09, 2026	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

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

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).

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation

For Stand alone:

Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	8.17	1.24	7.26	5.32	3060.00	0.0017	Pass
@LR-DTS	20	13.37	-4.56	6.66	4.63	1842.12	0.0025	Pass
@LoRa(DTS)	20	21.07	-4.56	14.36	27.29	1842.12	0.0148	Pass
@LoRa(FHSS)	20	21.03	-4.56	14.32	27.04	1840.69	0.0147	Pass
@SubG CSS	20	20.89	-4.56	14.18	26.18	1841.10	0.0142	Pass

Note:

① EIRP=conducted power+antenna gain;

② ERP=EIRP-2.15;

③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;

④ ERP(mW) = $10^{(ERP \text{ (dBm)}/10)}$;

⑤ The estimation distance is 20cm;

⑥ The test data please refer to the report of EED32P80550901, EED32P80550902, EED32P80550903, EED32P80550904, EED32P80550905 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+LoRa(DTS))=0.0017+0.0148=0.0165 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

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2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
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*** End of Report ***