

RF Exposure Evaluation Report

Product : Sensilift Pro
Trade mark : Sensica
Model/Type reference : ST300US04SNS, ST300XXYYZZZ
Serial Number : N/A
Report Number : EED32Q81412602
FCC ID : 2ABRVST300XX
Date of Issue : Dec. 05, 2024
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

EL Global Trade LTD
6th Ha-Gavish St., 4250706, Netanya, Israel

Prepared by:

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Dec. 05, 2024



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1 Version

Version No.	Date	Description
00	Dec. 05, 2024	Original

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3 General Information

3.1 Client Information

Applicant:	EL Global Trade LTD
Address of Applicant:	6th Ha-Gavish St., 4250706, Netanya, Israel
Manufacturer:	EL Global Trade LTD
Address of Manufacturer:	2870 Peachtree Rd NW Atlanta, GA 30305
Factory:	EL GLobal Trade LTD
Address of Factory:	NO.1, NO.11 (2-6 floor), Row 3, Yuquan East Road, YuLvCommunity, YuTang Street GuangMing District ,Shenzhen, China

3.2 General Description of EUT

Product Name:	Sensilift Pro
Model No.:	ST300US04SNS, ST300XXYYZZZ
Test Model No.:	ST300US04SNS
Trade mark:	Sensica

3.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz	
Modulation Type:	BLE: GFSK	
Test Power Grade:	Default	
Test Software of EUT:	RTL8762C_RFTTestTool.exe	
Antenna Type:	Multi-layer Chip Antenna	
Antenna Gain:	BLE: -0.081 dBi	
Power Supply:	Adapter:	Input AC 100-240V, 0.7A Max Output: DC 12V 1.8A, 21.6W
Sample Received Date:	Sep. 10, 2024	
Sample tested Date:	Oct. 25, 2024 to Nov. 06, 2024	
Remark: Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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).

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

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

For Bluetooth LE:

Frequency (MHz)	Max. Conducted Output power (W)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
@2.4G	0.0026	4.15	-0.081	2.0	1.5849	≤ 2.7172	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② $ERP=EIRP-2.15$;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the module's report of FCC ID: 2ACCREHMC17. and only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***