



RF Exposure Evaluation Report

FOR

Control Technology China Co., LTD

TPMS

Test Model: C427032

Additional Model No.:

C427133, C427X1Y, C427X2Y, C427X3Y, C427001, C427002

Prepared for : Control Technology China Co., LTD
Address : No.98 Jianpeng Rd, Jiuting Town, Songjiang District, Shanghai 201615

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, China
Tel : (+86)755-82591330
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Web : www.LCS-cert.com
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Date of receipt of test sample : November 19, 2024
Number of tested samples : 2
Sample number : A241118011-1, A241118011-2
Sample number : Prototype
Date of Test : November 19, 2024 ~ March 08, 2025
Date of Report : March 10, 2025





RF Exposure Evaluation	
Report Reference No.	LCSA11194103EB
Date of Issue	March 10, 2025
Testing Laboratory Name.....	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	Control Technology China Co., LTD
Address	No.98 Jianpeng Rd, Jiuting Town, Songjiang District, Shanghai 201615
Test Specification	
Standard	FCC CFR 47 part1 1.1310; FCC CFR 47 part2 2.1093 KDB 447498 D01 General RF Exposure Guidance v06
Test Report Form No.	TRF-4-E-168 A/0
TRF Originator.....	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	Dated 2011-03
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Test Item Description.	TPMS
Trade Mark	N/A
Test Model	C427032
Ratings	Input: 5.0V $\pm$ 2.0A For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A Adapter Output: 5.0V $\pm$ 2.0A, 10.0W DC 3.7V by Rechargeable Battery, 3000mAh
Result	Positive

Compiled by:

Supervised by:

Approved by:

Li Huan/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.
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Scan code to check authenticity



RF Exposure Evaluation Report

Test Report No. : LCSA11194103EB	<u>March 10, 2025</u> Date of issue
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Test Model.....	: C427032
EUT.....	: TPMS
Applicant.....	: Control Technology China Co., LTD
Address.....	: No.98 Jianpeng Rd, Jiuting Town, Songjiang District, Shanghai 201615
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Control Technology China Co., LTD
Address.....	: No.98 Jianpeng Rd, Jiuting Town, Songjiang District, Shanghai 201615
Telephone.....	: /
Fax.....	: /
Factory.....	: Control Technology China Co., LTD
Address.....	: No.98 Jianpeng Rd, Jiuting Town, Songjiang District, Shanghai 201615
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	March 10, 2025	Initial Issue	--





1. Product Information

Applicant's Name	Control Technology China Co., LTD
Address	No.98 Jianpeng Rd, Jiuting Town, Songjiang District, Shanghai 201615
Product name	TPMS
Test Model	C427032
Additional Model No.	C427133, C427X1Y, C427X2Y, C427X3Y, C427001, C427002, X represents brand (0-9), Y represents different models
Model Declaration	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	Input: 5.0V $\pm$ 2.0A For AC Adapter Input: 100-240V~, 50/60Hz, 0.3A Adapter Output: 5.0V $\pm$ 2.0A, 10.0W DC 3.7V by Rechargeable Battery, 3000mAh
Hardware Version	/
Software Version	/
125KHz	
Operating Frequency	125KHz
Channel Number	1 channel
Modulation Type	ASK
Antenna Description	Internal Antenna, 0dBi (Max.)
Maximum field strength (dBuV/m@3m)	69.91 dBuV/m@3m
Maximum EIRP (mW)	0.00296 mW (converted from Maximum field strength)
EUT Type	Production Unit
Device Type	Portable Devices
Date of Test	November 28, 2024 ~ March 08, 2025
Date of Report	March 10, 2025





2.Evaluation standard

FCC KDB publication 447498 D01 General RF Exposure Guidance v06
FCC CFR 47 part1 1.1310
FCC CFR 47 part2 2.1093

3.Description of Test Facility

Shenzhen LCS Compliance Testing Laboratory Ltd.
101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.

4.RF Exposure – Determination of Exemption

4.1 SAR-based Exemption per 447498 D01 General RF Exposure Guidance v06

4.1.1 125kHz

SAR exemption calculation for 125kHz at 0mm is based on
Per 447498 D01 General RF Exposure Guidance v06 Section 4.3.1 a), b)1) using 50mm separation and 0.1GHz and applying it to 125kHz using c)2) as follows,

$$a) (7.5/\sqrt{0.1\text{GHz}}) * 50\text{mm} = 1185.9\text{mW}$$

$$b)1) 1185.9 + ((50-50) * (100/150)) = 1185.9\text{mW}$$

$$c)2) 1185.9 * (1 + \log(100/0.125)) * \frac{1}{2} = 2314.34\text{mW}$$

EIRP for 125kHz is 0.00292mW and therefore exempt from stand-alone SAR testing.

5.Conclusion

Device meets the SAR test exemption criteria based on the calculations shown above.

-----THE END OF TEST REPORT-----

