

RF Exposure Evaluation Report

Product : Robot Vacuum Cleaner
Trade mark : N/A
Model/Type reference : SD204, G1 PRO, L3 PRO, T60-D, L3+
Serial Number : S260820089_1-1
Report Number : EED32S820286
FCC ID : 2BX4LRVC-PK004
Date of Issue : October 8, 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:

Guangdong Shunde PLDK Intelligent Technology Co., Ltd
Floor 3-5,Building B,No. 1,Chuangye 1st Road,Beijiao Town,Shunde
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Prepared by:

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1 Contents

	Page
1 CONTENTS	2
2 GENERAL INFORMATION	3
2.1 CLIENT INFORMATION	3
2.2 GENERAL DESCRIPTION OF EUT	3
2.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	3
2.4 TEST LOCATION	4
2.5 DEVIATION FROM STANDARDS	4
2.6 ABNORMALITIES FROM STANDARD CONDITIONS	4
2.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	4
3 SAR EVALUATION	5
3.1 RF EXPOSURE COMPLIANCE REQUIREMENT	5
3.1.1 Limits	5
3.1.2 Test Procedure	5
3.1.3 EUT RF Exposure Evaluation	6

2 General Information

2.1 Client Information

Applicant:	Guangdong Shunde PLDK Intelligent Technology Co., Ltd
Address of Applicant:	Floor 3-5,Building B,No. 1,Chuangye 1st Road,Beijiao Town,Shunde District,Foshan,Guangdong,China
Manufacturer:	Guangdong Shunde PLDK Intelligent Technology Co., Ltd
Address of Manufacturer:	Floor 3-5,Building B,No. 1,Chuangye 1st Road,Beijiao Town,Shunde District,Foshan,Guangdong,China
Factory:	Guangdong Shunde PLDK Intelligent Technology Co., Ltd
Address of Factory:	Floor 3-5,Building B,No. 1,Chuangye 1st Road,Beijiao Town,Shunde District,Foshan,Guangdong,China

2.2 General Description of EUT

Product Name:	Robot Vacuum Cleaner
Model No.:	SD204, G1 PRO, L3 PRO, T60-D, L3+
Test Model No.:	SD204
Model difference:	All model numbers have same electrical, PCB and layout, only the model name, colour are different for marketing requirements.
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BLE: 2402MHz~2480MHz 2.4G Wi-Fi: IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Modulation Type:	BLE: GFSK 2.4G Wi-Fi: IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK)	
Test Power Grade:	Default	
Test Software of EUT:	UartAssist.exe	
Antenna Type:	FPC Antenna	
Antenna Gain:	1.6 dBi	
Power Supply:	Battery:	14.4V
Sample Received Date:	Sep. 03, 2026	
Sample tested Date:	Sep. 03, 2026 to Sep. 14, 2026	

2.4 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, 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 Pth (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). Pth 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 ERP20cm 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:

Frequency (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
@BLE	20	3.37	1.60	2.82	1.91	3060.00	0.0006	Pass
@2.4G Wi-Fi	20	15.04	1.60	14.49	28.12	3060.00	0.0092	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 EED32S820288, EED32S820289 and only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (BLE+2.4G Wi-Fi)=0.0006+0.0092=0.0098 < 1, it's deemed to fulfil the RF exposure requirement.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
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;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***