RF Exposure Report

Report No.: AGC10211260314FH01

FCC ID	:	ZR3-DL107RG
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	LED recessed downlight
BRAND NAME	:	SIGNCOMPLEX
MODEL NAME	:	DL107RG-8-40W-CCT-R90-0001, DL107RG-8-40W-CCT-RYY-XXZZ, DL107R-8-40W-CCT-RYY-XXZZ, DL107RG-8-40W-5CCT-RYY-XXZZ, DL107R-8-40W-5CCT-RYY-XXZZ, DL107RG-6-30W-CCT-RYY-XXZZ, DL107R-6-30W-CCT-RYY-XXZZ, DL107RG-6-30W-5CCT-RYY-XXZZ, DL107R-6-30W-5CCT-RYY-XXZZ
APPLICANT	:	Signcomplex Limited
DATE OF ISSUE	:	Mar. 22, 2026
STANDARD(S)	:	FCC KDB 447498 D04 Interim General RF Exposure Guidance v01
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 22, 2026	Valid	Initial Release

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1. General Information

Applicant	Signcomplex Limited
Address	401, Mingfeng Building, No.2, Xikeng Road, Xinhe Community, Fucheng Street, Longhua, Shenzhen, Guangdong, China
Manufacturer	SIGNCOMPLEX LIMITED
Address	No.70 Hexiang West Road, Heshan Industrial Park Heshan, Guangdong, China
Product Designation	LED recessed downlight
Brand Name	SIGNCOMPLEX
Test Model	DL107RG-8-40W-CCT-R90-0001
Series Model(s)	DL107RG-8-40W-CCT-RYY-XXZZ, DL107R-8-40W-CCT-RYY-XXZZ, DL107RG-8-40W-5CCT-RYY-XXZZ, DL107R-8-40W-5CCT-RYY-XXZZ, DL107RG-6-30W-CCT-RYY-XXZZ, DL107R-6-30W-CCT-RYY-XXZZ, DL107RG-6-30W-5CCT-RYY-XXZZ, DL107R-6-30W-5CCT-RYY-XXZZ
Difference Description	1. The "YY": can be 70,80, 90,represent LED Color Rendering Index 70, 80, 90. 2. The "XX"can be two characters denotes commercial code for commercial use. 3. The "ZZ "can be any numbers form 01 to 99 which is for commercial use.
Date of receipt of test item	Mar. 09, 2026
Date of Test	Mar. 09, 2026~ Mar. 22, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-RF Exposure-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	Cool Cheng (Project Engineer)	Mar. 22, 2026
Reviewed By	Bibo Zhang (Reviewer)	Mar. 22, 2026
Approved By	Angela Li (Authorized Officer)	Mar. 22, 2026

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2. Product Information

2.1 Product Technical Description

Frequency Band (Operating)	☒ Bluetooth: 2.402GHz ~ 2.480GHz
Hardware Version	V1.0
Software Version	V1.0
Modulation Type	BLE ☒ GFSK 1Mbps ☒ GFSK 2Mbps
Device Category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others:
Antenna Diversity	☒ Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Minimum Assessment Distance	200mm
Evaluation Applied	☒ MPE Evaluation ☐ SAR Evaluation

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3. Test Environment

3.1 Address Of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

	Normal Conditions
Temperature range (℃)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106

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4. Evaluation Method and Limit

According to section B.4 of 447498 D04 Interim General RF Exposure Guidance v01

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of λ/4.

As for devices with antennas of length greater than λ/4 where the gain is not well defined, but always less than that of a half-wave dipole (length λ/2), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

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 (B.2).

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

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_{20cm} is per Formula (B.1).

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5. Measurement Results

BLE:

RF Exposure at Separation distance (cm): 0.5									
Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Manufacturing tolerance		Antenna Gain [dBi]	Max of ERP and Conducted Power including Tune Up		SAR-based exemption threshold Pth [mW]
				Target Power [dBm]	Tolerance ±[dB]		[dBm]	[mW]	
BLE_1M	Ant1	2402	1.13	0.5	1	0	1.5	1.41	3060.00
BLE_1M	Ant1	2440	1.07	0.5	1	0	1.5	1.41	3060.00
BLE_1M	Ant1	2480	0.83	0.5	1	0	1.5	1.41	3060.00
BLE_2M	Ant1	2402	1.33	1	1	0	2.0	1.58	3060.00
BLE_2M	Ant1	2440	1.11	0.5	1	0	1.5	1.41	3060.00
BLE_2M	Ant1	2480	0.85	0.5	1	0	1.5	1.41	3060.00

Max of ERP and Conducted Power including Tune Up (dBm) = Max Conducted Tune Up Power(dBm) and Max Conducted Tune Up Power(dBm) + Antenna Gain(dBi)-2.15), whichever is greater.

The Maximum Erp is used for Routine Evaluation Exemption according to B.4 of 447498 D04 Interim General RF Exposure Guidance v01.

So, the SAR evaluation is not required.

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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