



FCC TEST REPORT

FCC ID:2AGBW9290044401X

Report Number..... : ZKT-260810L0525E-4

Date of Test..... : Apr. 03, 2026 ~ Aug. 31, 2026

Date of issue..... : Aug. 31, 2026

Total number of pages..... : 8

Test Result..... : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address..... : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name..... : Signify (China) Investment Co., Ltd.

Address..... : Building no.9, Lane 888, Tianlin Road, Minhang District, Shanghai, 200233 China

Manufacturer's name..... : Signify (China) Investment Co., Ltd.

Address..... : Building no.9, Lane 888, Tianlin Road, Minhang District, Shanghai, 200233 China

Test specification:

Standard..... : FCC 47CFR §2.1093
KDB 447498 D01 General RF Exposure Guidance v06

Test procedure..... : /

Non-standard test method..... : N/A

Test Report Form No...... : TRF-EL-111_V0

Test Report Form(s) Originator.... : ZKT Testing

Master TRF..... : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : Wall light module

Trademark..... : PHILIPS; hue

Model/Type reference..... : 9290044401

Ratings..... : Rated Voltage: 42VDC
Rated Current: 5mA
Rated Power:0.21W



Testing procedure and testing location:

Testing Laboratory: Shenzhen ZKT Technology Co., Ltd.

Address: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Tested by (name + signature): Jim Liu

Jim Liu

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature): Lake Xie





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1. VERSION

Report No.	Version	Description	Approved
ZKT-260810L0525E-4	Rev.01	Initial issue of report	Aug. 31, 2026



2. TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491

Designation Number: CN1431

IC Registered No.: 27033

CAB identifier: CN0110

Designation Number: CN0110



3. GENERAL DESCRIPTION OF EUT

Product Name:	Wall light module
Trade Mark:	PHILIPS; hue
Model No.:	9290044401
Serial No.:	N/A
Model Different:	N/A
Hardware Version:	9290044401
Software Version:	V0.1.0
Sample(s) Status:	Engineer sample
Operation Frequency:	2402MHz~2480MHz LE(Support 1M PHY, 2M PHY)
Channel Numbers:	40 Channels
Channel Spacing:	2MHz
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	1.96 dBi
Ratings	Rated Voltage: 42VDC Rated Current: 5mA Rated Power:0.21W
Battery Capacity:	N/A

Note1: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Note2: The EUT's all information provided by client.



RF Exposure Evaluation

Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $Pd = (Pout * G) / (4 * \pi * r^2)$

Where

Pd = power density in mW/cm², **Pout** = output power to antenna in mW;

G = gain of antenna in linear scale, **Pi** = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

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

**Test Result of RF Exposure Evaluation**

Tune up

RF Function	Tune Up Power (dBm)	Tune Up Power (dBm)
BLE 1M	8 ± 1	9
BLE 2M	8 ± 1	9
BLE 125K	8 ± 1	9
BLE 500K	8 ± 1	9
Zigbee	9 ± 1	10

RF Function	Frequency (MHz)	Separation distance (cm)	Max Tune Up Power (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
BLE	2402	20	9.00	7.943	0.0025	1	Pass
Zigbee	2405	20	10.00	10.000	0.0031	1	Pass

Remark: antenna gain=1.96dBi