

RF Exposure Evaluation Report

FCC 47 CFR § 2.1091

for
Digital device

Model: 9290038165

Prepared for:
Signify (China) Investment Co., Ltd.

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

Prepared by
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New Taipei City, Taiwan
Issued Date: August 22, 2025

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Report No.: TMWK2412004783KS

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	August 22, 2025	Initial Issue	ALL	Peggy Tsai

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1 Attestation of Test Results

Applicant	Signify (China) Investment Co., Ltd. Building no.9, Lane 888, Tianlin Road, Minhang District, Shanghai, 200233, China
Manufacturer	Signify (China) Investment Co., Ltd. Building no.9, Lane 888, Tianlin Road, Minhang District, Shanghai, 200233, China
Model Name	9290038165
Applicable Standards	FCC 47 CFR § 2.1091 FCC 47 CFR § 1.1307 FCC 47 CFR § 1.1310 Published RF exposure KDB procedures
Receive EUT Date:	December 31, 2024
Compliance Certification Services Inc. , tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement,not taking into account measurement instrumentation uncertainy.All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.	
Approved & Released By:	
	
Sky Zhou Asst. Section Manager	

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2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1091, the following FCC Published RF exposure [KDB](#) procedures:

- 447498 D04 Interim General RF Exposure Guidance v01
- 865664 D02 RF Exposure Reporting v01r02

3 Device Under Test (DUT) Information

3.1 DUT Description

Product	Digital device
Trade Name	PHILIPS, hue, signify
Model No.	9290038165
Model Discrepancy	N/A
EUT Serial #	C429961921C6
Software Version	V5.0.10R10DK
Hardware Version	MB: C version SB: B version LB: B version
Sample Stage	Identical prototype

3.2 Wireless Technologies

Frequency bands	<input checked="" type="checkbox"/> Bluetooth: 2402MHz-2480MHz <input checked="" type="checkbox"/> 802.11b/g/n HT20/ac VHT20: 2412MHz ~ 2462 MHz <input checked="" type="checkbox"/> 802.11n HT40/ac VHT40: 2422MHz ~ 2452MHz <input checked="" type="checkbox"/> 802.11a/n HT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz <input checked="" type="checkbox"/> 802.11ac VHT20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz <input type="checkbox"/> 802.11ax HE20: 5180MHz ~ 5240MHz / 5260MHz ~ 5320MHz / 5500MHz ~ 5720MHz / 5745MHz ~ 5825MHz <input checked="" type="checkbox"/> 802.11n HT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz <input checked="" type="checkbox"/> 802.11ac VHT40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz <input type="checkbox"/> 802.11ax HE40: 5190MHz ~ 5230MHz / 5270MHz ~ 5310MHz / 5510MHz ~ 5710MHz / 5755MHz ~ 5795MHz <input checked="" type="checkbox"/> 802.11ac VHT80: 5210MHz / 5290MHz / 5530MHz ~ 5690MHz / 5775MHz <input type="checkbox"/> 802.11ax HE80: 5210MHz / 5290MHz / 5530MHz ~ 5690MHz / 5775MHz <input checked="" type="checkbox"/> Others: Zigbee: 2405MHz-2480MHz																																			
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure <input checked="" type="checkbox"/> General Population/Uncontrolled exposure																																			
Antenna Specification	<p>Type: PIFA Antenna</p> <p>Bluetooth: Gain: 2.6 dBi Zigbee: Gain: 2 dBi WIFI 2.4G: Gain: 2.6 dBi WIFI 5G: Band1: Gain: 4.4 dBi Band2: Gain: 4.4 dBi Band3: Gain: 4.4 dBi Band4: Gain: 4.4 dBi</p> <table> <tbody> <tr> <td>BT:</td> <td>Antenna Gain :</td> <td>2.60 dBi</td> <td>(Numeric gain: 1.82)</td> <td>Worst</td> </tr> <tr> <td>Zigbee:</td> <td>Antenna Gain :</td> <td>2.00 dBi</td> <td>(Numeric gain: 1.58)</td> <td>Worst</td> </tr> <tr> <td>2.4GHz:</td> <td>Antenna Gain:</td> <td>2.60 dBi</td> <td>(Numeric gain: 1.82)</td> <td>Worst</td> </tr> <tr> <td>5GHz(U-NII-1):</td> <td>Antenna Gain:</td> <td>4.40 dBi</td> <td>(Numeric gain: 2.75)</td> <td>Worst</td> </tr> <tr> <td>5GHz(U-NII-2A):</td> <td>Antenna Gain:</td> <td>4.40 dBi</td> <td>(Numeric gain: 2.75)</td> <td>Worst</td> </tr> <tr> <td>5GHz(U-NII-2C)</td> <td>Antenna Gain:</td> <td>4.40 dBi</td> <td>(Numeric gain: 2.75)</td> <td>Worst</td> </tr> <tr> <td>5GHz(U-NII-3):</td> <td>Antenna Gain:</td> <td>4.40 dBi</td> <td>(Numeric gain: 2.75)</td> <td>Worst</td> </tr> </tbody> </table>	BT:	Antenna Gain :	2.60 dBi	(Numeric gain: 1.82)	Worst	Zigbee:	Antenna Gain :	2.00 dBi	(Numeric gain: 1.58)	Worst	2.4GHz:	Antenna Gain:	2.60 dBi	(Numeric gain: 1.82)	Worst	5GHz(U-NII-1):	Antenna Gain:	4.40 dBi	(Numeric gain: 2.75)	Worst	5GHz(U-NII-2A):	Antenna Gain:	4.40 dBi	(Numeric gain: 2.75)	Worst	5GHz(U-NII-2C)	Antenna Gain:	4.40 dBi	(Numeric gain: 2.75)	Worst	5GHz(U-NII-3):	Antenna Gain:	4.40 dBi	(Numeric gain: 2.75)	Worst
BT:	Antenna Gain :	2.60 dBi	(Numeric gain: 1.82)	Worst																																
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Maximum Tune up power	Zigbee	10.50 dBm	(11.220 mW)
	BLE	6.00 dBm	(3.98 mW)
	2.4GHz		
	IEEE 802.11b	18.00 dBm	(63.096 mW)
	IEEE 802.11g	14.00 dBm	(25.119 mW)
	IEEE 802.11n HT 20	13.50 dBm	(22.39 mW)
	IEEE 802.11n HT 40	12.50 dBm	(17.78 mW)
	IEEE 802.11ac VHT 20	13.50 dBm	(22.39 mW)
	IEEE 802.11ac VHT 40	12.50 dBm	(17.78 mW)
	5GHz (U-NII-1)		
	IEEE 802.11a	19.50 dBm	(89.125 mW)
	IEEE 802.11n HT 20	19.50 dBm	(89.125 mW)
	IEEE 802.11n HT 40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT 20	19.50 dBm	(89.13 mW)
	IEEE 802.11ac VHT 40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT 80	14.00 dBm	(25.12 mW)
	5GHz (U-NII-2A)		
	IEEE 802.11a	20.00 dBm	(100.00 mW)
	IEEE 802.11n HT 20	20.00 dBm	(100.00 mW)
	IEEE 802.11n HT 40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT 20	20.00 dBm	(100.00 mW)
	IEEE 802.11ac VHT 40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT 80	14.50 dBm	(28.18 mW)
	5GHz (U-NII-2C)		
	IEEE 802.11a	16.50 dBm	(44.67 mW)
	IEEE 802.11n HT 20	17.50 dBm	(56.23 mW)
	IEEE 802.11n HT 40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT 20	17.50 dBm	(56.23 mW)
	IEEE 802.11ac VHT 40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT 80	16.00 dBm	(39.81 mW)
	5GHz (U-NII-3)		
	IEEE 802.11a	18.50 dBm	(70.79 mW)
	IEEE 802.11n HT20	19.50 dBm	(89.13 mW)
	IEEE 802.11n HT40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT20	19.50 dBm	(89.13 mW)
	IEEE 802.11ac VHT40	17.00 dBm	(50.12 mW)
	IEEE 802.11ac VHT80	19.00 dBm	(79.43 mW)

Notes:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. The power referred the Tune up power of the test report TMWK2412004778KR, TMWK2412004779KR, TMWK2412004780KR and TMWK2412004781KR for RF Exposure assessment purpose.

4 Maximum Permissible Exposure

4.1 Limits for Maximum Permissible Exposure (MPE)

Table 1 - 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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

4.2 MPE Calculation Method

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and

d (cm) = d(m) / 100

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \text{ Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

If, Substituting the MPE safe distance using d = 20 cm into Equation 1:

$$S = 0.000199 \times P \times G$$

4.3 MPE EXEMPTION

(A) The available maximum time-averaged power is no more than 1 mW

(B) The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

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

d = the separation distance (cm);

(C) Using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2 .
1.34-30	3,450 R^2/f^2 .
30-300	3.83 R^2 .
300-1,500	0.0128 R^2f .
1,500-100,000	19.2 R^2 .

Note: R is in meters, f is in MHz.

4.4 Multiple RF sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^a \frac{P_i}{P_{\text{th},i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{\text{th},j}} + \sum_{k=1}^c \frac{\text{Evaluated}_k}{\text{Exposure Limit}_k} \leq 1$$

5 MPE Exemption Option B

Zigbee

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
Zigbee	2405	0.2	10.5	2.00	12.50	10.35	10.839	3060	Complies

Bluetooth

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
BLE	2402	0.2	6.0	2.60	8.60	6.45	4.416	3060	Complies

WIFI 2.4GHz (DTS)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11b	2412	0.2	18.0	2.60	20.60	18.45	69.984	3060	Complies
IEEE 802.11g	2412	0.2	14.0	2.60	16.60	14.45	27.861	3060	Complies
IEEE 802.11n HT20	2412	0.2	13.5	2.60	16.10	13.95	24.831	3060	Complies
IEEE 802.11n HT40	2422.00	0.2	12.5	2.60	15.10	12.95	19.724	3060	Complies
IEEE 802.11ac VHT20	2412.00	0.2	13.5	2.60	16.10	13.95	24.831	3060	Complies
IEEE 802.11ac VHT40	2422.00	0.2	12.5	2.60	15.10	12.95	19.724	3060	Complies

WIFI 5.2GHz (U-NII 1)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a	5220	0.2	19.5	4.40	23.90	21.75	149.624	3060	Complies
IEEE 802.11n HT20	5220	0.2	19.5	4.40	23.90	21.75	149.624	3060	Complies
IEEE 802.11n HT40	5230	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT20	5220	0.2	19.5	4.40	23.90	21.75	149.624	3060	Complies
IEEE 802.11ac VHT40	5230	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT80	5210	0.2	14.0	4.40	18.40	16.25	42.170	3060	Complies

WIFI 5.3GHz (U-NII 2A)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a	5260	0.2	20.0	4.40	24.40	22.25	167.880	3060	Complies
IEEE 802.11n HT20	5260	0.2	20.0	4.40	24.40	22.25	167.880	3060	Complies
IEEE 802.11n HT40	5270	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT20	5260	0.2	20.0	4.40	24.40	22.25	167.880	3060	Complies
IEEE 802.11ac VHT40	5270	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT80	5290	0.2	14.5	4.40	18.90	16.75	47.315	3060	Complies

WIFI 5.5GHz (U-NII 2C)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a	5580	0.2	16.5	4.40	20.90	18.75	74.989	3060	Complies
IEEE 802.11n HT20	5580	0.2	17.5	4.40	21.90	19.75	94.406	3060	Complies
IEEE 802.11n HT40	5550	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT20	5580	0.2	17.5	4.40	21.90	19.75	94.406	3060	Complies
IEEE 802.11ac VHT40	5550	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT80	5610	0.2	16.0	4.40	20.40	18.25	66.834	3060	Complies

WIFI 5.8GHz (U-NII 3)

Mode	Frequency (MHz)	R(m)	Max Tune-up power (dBm)	G(dBi)	Max Tune-up EIRP (dBm)	Max Tune-up ERP (dBm)	Max Tune-up ERP (mW)	ERP Threshold (mW)	MPE Exemption
IEEE 802.11a	5745	0.2	18.5	4.40	22.90	20.75	118.850	3060	Complies
IEEE 802.11n HT20	5745	0.2	19.5	4.40	23.90	21.75	149.624	3060	Complies
IEEE 802.11n HT40	5755	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT20	5745	0.2	19.5	4.40	23.90	21.75	149.624	3060	Complies
IEEE 802.11ac VHT40	5755	0.2	17.0	4.40	21.40	19.25	84.140	3060	Complies
IEEE 802.11ac VHT80	5775	0.2	19.0	4.40	23.40	21.25	133.352	3060	Complies

6 Simultaneous Transmission Analysis

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

6.1 Sum of the Bluetooth & Zigbee Bluetooth + Zigbee

Mode	Max Tune-up ERP(mW)	ERP Threshold(mW)	simultaneous Transmission	simultaneous Transmission Limit
BLE	4.416	3060	0.005	≤ 1
Zigbee	10.839	3060		

6.2 Sum of the WIFI 2.4GHz & Zigbee WiFi 2.4GHz + Zigbee

Mode	Max Tune-up ERP(mW)	ERP Threshold(mW)	simultaneous Transmission	simultaneous Transmission Limit
WiFi 2.4GHz	69.984	3060	0.027	≤ 1
Zigbee	10.839	3060		

6.3 Sum of the WIFI 5GHz & Bluetooth & Zigbee WiFi 5GHz + Bluetooth + Zigbee

Mode	Max Tune-up ERP(mW)	ERP Threshold(mW)	simultaneous Transmission	simultaneous Transmission Limit
WiFi 5GHz	167.880	3060	0.060	≤ 1
Bluetooth	4.416	3060		
Zigbee	10.839	3060		

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7 Facilities

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

--End of Test Report--