

## 1 Cover Page

# RF Exposure Evaluation Report

**Application No.:** KSCR2501000089AT  
**FCC ID:** 2BHGF-0235C9NB  
**IC:** 32743-0235C9NB  
**Applicant:** KeyLife International Technology Limited  
**Address of Applicant:** Workshop 7, 6th Floor Core 45, No. 43 Tsun Yip Street, Kowloon, HONG KONG  
**Manufacturer:** KeyLife International Technology Limited  
**Address of Manufacturer:** Workshop 7, 6th Floor Core 45, No. 43 Tsun Yip Street, Kowloon, HONG KONG  
**Equipment Under Test (EUT):**  
**EUT Name:** HomeBase  
**Model No.:** H310,H310-B,H310-xxxxxxx-yyyyyyy-zzz (where x,y,z may be blank, one letter or more combination letters from '0-9, A-Z and a-z'; '-' is option)  
**For IC Model No.:** H310,H310-B  
**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB 447498 D04 interim General RF Exposure Guidance v01  
RSS-102 Issue 6 (December 15, 2023)  
**Date of Receipt:** 2025-01-17  
**Date of Test:** 2025-01-20 to 2025-03-11  
**Date of Issue:** 2025-03-12

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Revision Record			
Version	Description	Date	Remark
00	Original	2025-03-12	/

Authorized for issue by:				
Tested By		Maker Qi		
		Maker_Qi/Project Engineer		
Approved By		Terry Hou		
		Terry Hou /Reviewer		



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### 3 General Information

#### 3.1 General Description of E.U.T.

Power supply:	AC/DC Adapter: Model: DCT36W120300US-A3 Input: 100~240V~,50-60Hz,1A max Output: 12V/3A
S/N:	210235C9NB3249000011
Firmware Version:	GSHAV5R1B01D001SP22

#### 3.2 Technical Specifications

##### 2.4GHz WiFi

Operation Frequency:	802.11b/g/n(HT20)/ax(HE20):2412MHz to 2462MHz;802.11n(HT40)/ax(HE40):2422MHz to 2452MHz
Modulation Type(WLAN0):	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11ax: OFDMA (BPSK, BPSK_DCM, QPSK, QPSK_DCM, 16QAM, 16QAM_DCM, 64QAM, 256QAM, 1024QAM)
Modulation Type(WLAN1):	802.11b: DSSS (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK), 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Number of Channels:	802.11b/g/n(HT20)/ax(HE20):11;802.11n(HT40)/ax(HE40):7
Channel Spacing:	5MHz
Antenna Type:	Internal antenna
Antenna Gain:	WLAN0(AIC8800DL Module): 3.3dBi (Provided by the manufacturer) WLAN1(ATBM6062 Module): 2.5dBi (Provided by the manufacturer)
Antenna Number:	1

##### 5GHz WiFi

Operation Frequency/Number of channels (20MHz):	U-NII-1: 5180-5240MHz (4 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-1: 5190-5230MHz (2 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, BPSK_DCM, QPSK, QPSK_DCM, 16QAM, 16QAM_DCM, 64QAM, 256QAM, 1024-QAM)
Channel Spacing:	802.11a/n/ac/ax 20: 20MHz; 802.11n/ac/ax 40: 40MHz
Antenna Type:	Internal antenna
Antenna Gain:	3.5dBi (Provided by the manufacturer)



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#### BLE

Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Internal antenna
Antenna Gain:	3.3dBi (Provided by the manufacturer)

#### 433.18MHz

Operation Frequency	433.18MHz
Channel Numbers:	1
Modulation Type:	FSK
Antenna Type:	Internal Antenna
Transmitter type:	Periodicity



### 3.3 Separation Distance

Separation distance between the antenna to person (R):	> 20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. R has been stated in user manual.	

### 3.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc ) is provided by the applicant. (if applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

3. Sample source: sent by customer.

### 3.5 Test Facility

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

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

## 4 RF Exposure Test Exemptions

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

### 4.1 FCC RF Exposure Test Exemptions for single RF sources

#### 4.1.1 Blanket 1 mW Blanket Exemption

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.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

#### 4.1.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz. 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  $\lambda$  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).

**Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation**

RF Source Frequency			Minimum Distance			Threshold ERP
$f_L$ MHz		$f_H$ MHz	$\lambda_L / 2\pi$		$\lambda_H / 2\pi$	W
0.3	–	1.34	159 m	–	35.6 m	1,920 R <sup>2</sup>
1.34	–	30	35.6 m	–	1.6 m	3,450 R <sup>2</sup> /f <sup>2</sup>
30	–	300	1.6 m	–	159 mm	3.83 R <sup>2</sup>
300	–	1,500	159 mm	–	31.8 mm	0.0128 R <sup>2</sup> f
1,500	–	100,000	31.8 mm	–	0.5 mm	19.2R <sup>2</sup>
Subscripts L and H are low and high; $\lambda$ is wavelength. R: Separation distance between the antenna to person						

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

Limit calculation				
Frequency range	Frequency(MHz)	$\lambda/2\pi$ (m)	R(m)	Threshold ERP(W)
1.34~30MHz	13.56	3.5229	3.6000	243.167
300~1500MHz	<b>433</b>	0.1103	0.6000	1.995
1500~100000MHz	<b>2462</b>	0.0194	0.2000	0.768
1500~100000MHz	<b>5825</b>	0.0082	0.2000	0.768

#### 4.1.3 SAR-based Exemption

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  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), 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  $P_{th}$  (mW).

This method shall only be used at separation distances from **0.5cm to 40cm** and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

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

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  $ERP_{20 \text{ cm}}$  is per Formula (B.1).

Limit calculation				
Frequency range(GHz)	Frequency(GHz)	X	d(cm)	Pth (mW)
0.3~1.5	<b>0.43317</b>	0.986	<b>20</b>	<b>883.667</b>
1.5~6	<b>2.462</b>	1.903	<b>20</b>	<b>3060.000</b>

## 4.2 RF Exposure Test Exemptions for Simultaneous Transmission

The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated $_k$  term) shall be used to determine exemption for simultaneous transmission. 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.

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

Where:

**a** = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for  $P_{th}$ , including existing exempt transmitters and those being added.

**b** = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

**c** = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

**P<sub>i</sub>** = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source *i* at a distance between 0.5 cm and 40 cm (inclusive).

**P<sub>th,i</sub>** = the exemption threshold power (P<sub>th</sub>) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source *i*.

**ERP<sub>j</sub>** = the ERP of fixed, mobile, or portable RF source *j*.

**ERP<sub>th,j</sub>** = exemption threshold ERP for fixed, mobile, or portable RF source *j*, at a distance of at least  $\lambda / 2 \pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

**Evaluated<sub>k</sub>** = the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation at the location of exposure.

**Exposure Limit<sub>k</sub>** = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source *k*, as applicable from § 1.1310 of this chapter.

#### 4.3 IC Field reference level exposure exemption limits:

According to RSS-102 issue 6 section 6.6, RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $4.49/f^{0.5}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).



## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR250100008901, KSCR250100008902,

KSCR250100008903, KSCR250100008904

#### 2.4GHz WiFi WLAN0((AIC8800DL Module))

Test Mode	Test Channel	Power [dBm]	Power [mW]
802.11b SISO	2412	11.97	15.74
802.11b SISO	2437	12.58	18.11
802.11b SISO	2462	12.89	19.45
802.11g SISO	2412	13.82	24.10
802.11g SISO	2437	14.01	25.18
802.11g SISO	2462	<b>14.78</b>	30.06
802.11n (HT20) SISO	2412	13.95	24.83
802.11n (HT20) SISO	2437	14.23	26.49
802.11n (HT20) SISO	2462	14.78	30.06
802.11n(HT40) SISO	2422	13.89	24.49
802.11n(HT40) SISO	2437	14.19	26.24
802.11n(HT40) SISO	2452	14.50	28.18
802.11ax(HE20) SISO	2412	13.62	23.01
802.11ax(HE20) SISO	2437	14.12	25.82
802.11ax(HE20) SISO	2462	14.64	29.11
802.11ax(HE40) SISO	2422	13.82	24.10
802.11ax(HE40) SISO	2437	14.12	25.82
802.11ax(HE40) SISO	2452	14.46	27.93

**2.4GHz WiFi WLAN1(ATBM6062 Module)**

Test Mode	Test Channel	Power [dBm]	Power [mW]
802.11b SISO	2412	10.71	11.78
802.11b SISO	2437	11.30	13.49
802.11b SISO	2462	11.53	14.22
802.11g SISO	2412	11.48	14.06
802.11g SISO	2437	10.87	12.22
802.11g SISO	2462	10.81	12.05
802.11n (HT20) SISO	2412	10.26	10.62
802.11n (HT20) SISO	2437	9.62	9.16
802.11n (HT20) SISO	2462	9.88	9.73
802.11n(HT40) SISO	2422	6.17	4.14
802.11n(HT40) SISO	2437	6.13	4.1
802.11n(HT40) SISO	2452	6.14	4.11
802.11ax(HE20) SISO	2412	10.94	12.42
802.11ax(HE20) SISO	2437	10.65	11.61
802.11ax(HE20) SISO	2462	10.76	11.91
802.11ax(HE40) SISO	2422	8.68	7.38
802.11ax(HE40) SISO	2437	8.65	7.33
802.11ax(HE40) SISO	2452	8.67	7.36

**5GHz WiFi**

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
802.11a SISO	5180	13.19	20.84
	5200	13.38	21.78
	5240	13.20	20.89
	5745	13.38	21.78
	5785	13.08	20.32
	5825	13.34	21.58
802.11ac(VHT20) SISO	5180	13.22	20.99
	5200	13.33	21.53
	5240	13.22	20.99
	5745	13.40	21.88
	5785	13.15	20.65
	5825	14.34	27.16
802.11ac(VHT40) SISO	5190	13.24	21.09
	5230	13.21	20.94
	5755	13.33	21.53
	5795	12.87	19.36
802.11ax(HE20) SISO	5180	13.23	21.04
	5200	13.28	21.28
	5240	13.16	20.70
	5745	13.50	22.39
	5785	13.11	20.46
	5825	12.23	16.71
802.11ax(HE40) SISO	5190	13.18	20.80
	5230	13.17	20.75
	5755	13.34	21.58
	5795	12.86	19.32

**BLE**

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
1M	2402	0.51	1.12
	2440	0.41	1.10
	2480	0.76	1.19

**433MHz** @3m=87.32dBuV/m

## 5.2 RF Exposure Calculation

### For FCC:

Band	Frequency	Max power (dBm)	Ant Gain (dBi)	EIRP (dBm)	Max power (mW)	Limit (mW)	Distance R (cm)
WLAN 2.4GHz WLAN0	2462	14.78	3.3	18.08	64.27	3060	20
WLAN 2.4GHz WLAN1	2462	11.53	2.5	14.03	25.29	3060	20
BLE	2480	0.76	3.3	4.06	2.55	3060	20
WLAN 5GHz B1	5150	13.38	3.5	16.88	48.75	3060	20
WLAN 5GHz B4	5725	14.34	3.5	17.84	60.81	3060	20

Test Frequency (MHz)	Field Strength@3m (dBuV/m)	EIRP (dBm)	Tune up EIRP(dBm)	Tune up EIRP(mW)	Limit (mW)	Distance R (cm)
433.18	87.32	-7.98	-7	0.2	883.667	20

### For single RF source :

	Evaluation method	Separation distance between the antenna to person (R)
<input type="checkbox"/>	Blanket 1 mW Blanket Exemption	Regardless of separation distance
<input type="checkbox"/>	MPE-based Exemption(ERP)	$R \geq (\lambda / 2\pi)$
<input checked="" type="checkbox"/>	SAR-based Exemption( $P_{th}$ )	$0.5\text{cm} < R < 40\text{cm}$

### For multiple RF sources:

The 2.4GHz WLAN0&2.4GHz WLAN1&5GHz WLAN & BLE & 433MHz can transmit simultaneously, but the maximum rate of MPE is  $64.27/3060+25.29/3060+60.81/3060+2.55/3060+0.2/883.667=0.05 \leq 1$ . So the MPE of collocated transmitter is compliant.



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**For IC:**

**For single RF source :**

Band	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Distance R (cm)	E.I.R.P (W)	E.I.R.P Limit (W)
WLAN 2.4GHz WLAN0	2400	14.78	3.3	18.08	20	0.0643	2.68
WLAN 2.4GHz WLAN1	2400	11.53	2.5	14.03	20	0.0253	2.68
WLAN 5GHz B1	5150	13.38	3.5	16.88	20	0.0488	4.51
WLAN 5GHz B4	5725	14.34	3.5	17.84	20	0.0608	4.85
BLE	2400	0.76	3.3	4.06	20	0.0025	2.68

Test Frequency (MHz)	Field Strength@3m (dBuV/m)	EIRP (dBm)	EIRP (W)	E.I.R.P Limit (W)
433.18	87.32	-7.98	0.00016	0.8311

Note: At a specified measurement distance of 3 m:  $EIRP(dBm) = E(dBuV/m) - 95.3$

**For multiple RF sources:**

The 2.4GHz WLAN0&2.4GHz WLAN1&5GHz WLAN & BLE & 433MHz can transmit simultaneously, but the maximum rate of MPE is

$0.0643/2.68+0.0253/2.68+0.0608/4.85+0.0025/2.68+0.00016/0.8311=0.047\leq 1$ .

So the MPE of collocated transmitter is compliant.

--End of the Report--