

RF EXPOSURE **EVALUATION REPORT**

APPLICANT : Anker Innovations Limited

PRODUCT NAME: HomeBase 2

MODEL NAME : T8010

BRAND NAME : eufy SECURITY

FCC ID : 2AOKB-T8113

47CFR 2.1091 STANDARD(S) KDB 447498

RECEIPT DATE : 2019-08-09

TEST DATE : 2019-08-28 to 2019-09-08

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SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.



DIRECTORY

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Change history				
Version	Date	Reason of changed		
1.0	2019-09-18	Original		



1. Technical Information

REPORT No.: SZ19070441S01

Note: Provide by manufacturer.

1.1 Applicant and Manufacturer Information

Applicant:	Anker Innovations Limited
Applicant Address:	Room 1318-19,Hollywood Plaza,610 Nathan Road, Mongkok, Kowloon,
Applicant Address.	Hong Kong
Manufacturer:	Anker Innovations Limited
Manufacturer Address.	Room 1318-19,Hollywood Plaza,610 Nathan Road,Mongkok,Kowloon,
Manufacturer Address:	Hong Kong

1.2 Equipment under Test (EUT) Description

EUT Name:	HomeBase 2
Hardware Version:	V3
Software Version:	V3.0.0.3
Frequency Bands:	WLAN 2.4GHz: 2412 MHz ~2462 MHz
Modulation Mode:	802.11b: DSSS 802.11g/n-HT20: OFDM
МІМО	Not support
Antenna Type:	PCB Antenna
Antenna Gain:	0 dBi



1.3 Identification of all used EUT

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The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	V3	V3.0.0.3

1.4 Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title	Method determination /Remark
1	47 CFR§2.1091	Radio Frequency Radiation Exposure Evaluation: mobile devices	No deviation
2	KDB 447498 D01v06	General RF Exposure Guidance	No deviation

FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,



2. Device Category and RF Exposure Limit

Per user manual, Based on 47CFR 2.1091, this device belongs to mobile device category with General Population/Uncontrolled exposure.

Mobile Devices:

47CFR 2.1091(b)

For purposes of this section, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 centimeter separation requirement.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category, and the general population/uncontrolled exposure limits apply to these devices.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(I	3) Limits for General	Population/Uncontro	lled 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* = Plane-wave equivalent power density





3.RF Output Power

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<WLAN 2.4GHz>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Power	Duty Cycle %
	902 11b	CH 1	2412	20.08	20.5	
	802.11b 1Mbps	CH 6	2437	19.99	20.5	98.59
2.4GHz WLAN		CH 11	2462	19.65	20.0	
Ant. 0	802.11g 6Mbps	CH 1	2412	18.44	19.0	
		CH 6	2437	18.09	19.0	89.71
	οινισμο	CH 11	2462	16.91	17.5	
	000 44 m LITO0	CH 1	2412	18.20	19.0	
	802.11n-HT20 MCS0	CH 6	2437	17.58	18.0	97.39
	IVICOU	CH 11	2462	17.17	18.0	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-up Power	Duty Cycle %
	002 11h	CH 1	2412	17.18	18.0	
	802.11b 1Mbps	CH 6	2437	17.51	18.0	98.59
2.4GHz WLAN		CH 11	2462	17.84	18.0	
Ant. 1	802.11g 6Mbps	CH 1	2412	18.50	19.0	
		CH 6	2437	18.43	19.0	89.71
	ΟΙνίδρο	CH 11	2462	19.02	19.5	
	000 44 = 1,1700	CH 1	2412	18.22	19.0	
	802.11n-HT20 MCS0	CH 6	2437	18.30	19.0	97.39
	IVICOU	CH 11	2462	18.71	19.0	

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4. RF Exposure Evaluation

Standalone transmission evaluation:

	Гасанара	Maximum	Antenna	FIDD	Power	Limit for
Bands	Frequency (MHz)	Tune-up Power	Gain	EIRP	density	MPE
		(dBm)	(dBi)	(mW)	(mW/cm²)	(mW/cm²)
WLAN 2.4GHz	2412	20.5	0	112.2	0.022	1.0

Note:

1. According to KDB 447498, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

2. MPE calculate method

Power Density = EIRP/ 4π R²

Where: EIRP = P+G

P = Output Power (dBm)

G = Antenna Gain (dBi)

R = Separation Distance (20cm)





Annex A General Information

1. Identification of the Responsible Testing Laboratory

. Identification of the Responsible resting Education					
Lohovotowy Nomes	Shenzhen Morlab Communications Technology Co., Ltd.				
Laboratory Name:	Morlab Laboratory				
	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road,				
Laboratory Address:	Block 67, BaoAn District, ShenZhen, GuangDong Province, P.				
	R. China				
Telephone:	+86 755 36698555				
Facsimile:	+86 755 36698525				

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road,
Address:	Block 67, BaoAn District, ShenZhen, GuangDong Province, P.
	R. China

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