RF Exposure Evaluation Report

Product	:	EBO CATPAL PRO
Trade mark	:	Enabot
Model/Type reference	:	EBO CATPAL PRO
Serial Number	:	N/A
Report Number	:	EED32M00173903
FCC ID	:	2AUR8-CATPALPRO
Date of Issue	:	Jul. 29, 2020
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Test result	:	PASS

Prepared for:

WeHome Technology Company Limited
Room 12A, Kiu Fu Comm Building,
300 Lockhart Road, Wan Chai, Hong Kong

Prepared by:

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	Sam Chuang		

Check No.:3096311993

2 Version

Version No.	Date	Description
00	Jul. 29, 2020	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	WeHome Technology Company Limited
Address of Applicant:	Room 12A, Kiu Fu Comm Building, 300 Lockhart Road, Wan Chai, Hong Kong
Manufacturer:	Fuzhi Technology (Shenzhen) Co., Ltd
Address of Manufacturer:	Room 207, 2nd Floor, Building 6, Qianhai Shengang Youth Dreamworks, No.35 Qianwan 1st Road,Qianhai-Hong Kong Cooperation Zone, Shenzhen
Factory:	Dongguan Kaifa Technology Co., Ltd
Address of Factory:	No.2 Junma Road, Chigang Community Humen Town, Dongguan City, Guangdong Province, P.R. China

4.2 General Description of EUT

Product Name:	EBO CATPAL PRO
Model No.(EUT):	EBO CATPAL PRO
Trade Mark:	Enabot
EUT Supports Radios application:	2.4G Wi-Fi :IEEE 802.11 b/g/n(HT20)(HT40), 2412MHz to 2462MHz 5GHz Wi-Fi: 5.15-5.25GHz;

4.3 Product Specificati2412MHz to 2462MHzon subjective to this standard

Frequency Range:	2.4G WIFI:2412MHz to 2462MHz 5GHz Wi-Fi: 5.15-5.25GHz;
Modulation Type:	DSSS,OFDM
Test Power Grade:	Reference report EED32M00173901,EED32M00173902
Test Software of EUT:	CRT
Antenna Type:	FPC antenna
Antenna Gain:	2.4G WIFI:1.47 dBi 5G WIFI:1.25 dBi
Max Conducted Peak Output Power:	2.4GHz:8.86dBm; 5GHz:7.56dBm
	The Max Conducted Peak Output Power data refer to the report EED32M00173901,EED32M00173902
Sample Received Date:	Jun. 16, 2020
Sample tested Date:	Jun. 16, 2020 to Jul. 21, 2020
The tested sample(s) and the sample information are provided by the client.	

4.4 Test Location

All tests were performed at:
Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
The result is rounded to one decimal place for comparison
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The tune-up power is

2.4G WIFI:7.0 dBm +/- 1.0dB

5G WIFI:8.5 dBm +/- 0.5dB

, therefore the highest tune-up power is

2.4G WIFI: 9.0 dBm (7.94 mW) @ 2412 MHz

5G WIFI: 8.0 dBm (6.31 mW) @ 5200 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

2.4G WIFI: (7.94mW / 5mm) * (2.412GHz ^0.5)= 2.5

5G WIFI: (6.31mW / 5mm) * (5.200GHz ^0.5)= 2.9

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] = 2.9 < 3.0

Therefore, standalone SAR measurements are not required for both head and body

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00173901 for EUT external and internal photos.

*** End of Report ***