

TEST REPORT

Reference No...... : WTD25D09244215W006
FCC ID : 2BMBQ-HB588AIBU
Applicant..... : HUBBLE BABY CARE LIMITED
Address..... : Unit 802, 8/F, Nan Fung Commercial Centre, 19 Lam Lok Street,
Kowloon Bay, Kowloon, Hong Kong
Manufacturer : HUBBLE BABY CARE LIMITED
Address..... : Unit 802, 8/F, Nan Fung Commercial Centre, 19 Lam Lok Street,
Kowloon Bay, Kowloon, Hong Kong
Product..... : BABY MONITOR
Model(s). : Go Baby AI Portable Pro (HB588AI), Go Baby AI Pro (HB585AI),
HB588AIBU, HB585AIBU
Standards..... : 47CFR Part 2 § 2.1091
Date of Receipt sample : 2025-09-17
Date of Test : 2025-09-25 to 2025-11-03
Date of Issue..... : 2025-11-25
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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2. Contents

	Page
1 COVER PAGE.....	1
2. CONTENTS	2
3. REVISION HISTORY	3
4. GENERAL INFORMATION.....	4
4.1. GENERAL DESCRIPTION OF E.U.T.....	4
4.2. DETAILS OF E.U.T.....	4
4.3. TEST FACILITY	6
4.4. SUBCONTRACTED.....	6
4.5. ABNORMALITIES FROM STANDARD CONDITIONS	6
5. TEST SUMMARY	7
6. RF EXPOSURE.....	8
6.1. DEFINITIONS	8
6.2. METHOD OF EVALUATION.....	8
6.3. EVALUATION RESULTS	10

3. Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D09244215W006	2025-09-17	2025-09-25 to 2025-11-03	2025-11-25	Original	-	Valid

4. General Information

4.1. General Description of E.U.T.

Product:	BABY MONITOR
Model(s):	Go Baby AI Portable Pro (HB588AI), Go Baby AI Pro (HB585AI), HB588AIBU, HB585AIBU
Model Description:	Only the model names are different. The model HB588AIBU was tested in this report.
Test Sample No.:	1-1/1
Wi-Fi Specification:	5G-802.11a/n(HT20/40)/ac(VHT20/40)/ax(HE20/40)
Hardware Version:	V2.4
Software Version:	0693-03.60.12_RC02

4.2. Details of E.U.T.

Operation Frequency:	2.4G SRD: FHSS 2402~2477MHz, 22CH 2.4G Wi-Fi 802.11b/g/n HT20/ax HE20: 2412~2462MHz 802.11n HT40/ax HE40: 2422~2452MHz 5G Wi-Fi 802.11a/n(HT20)/ac(VHT20)/ax(HE20): U-NII-1: 5180-5240MHz, U-NII-2A: 5260-5320MHz(DFS), U-NII-2C: 5500-5700MHz(DFS), U-NII-3: 5745-5825MHz 802.11n(HT40)/ac(VHT40)/ax(HE40): U-NII-1: 5190-5230MHz, U-NII-2A: 5270-5310MHz(DFS), U-NII-2C: 5510-5670MHz(DFS), U-NII-3: 5755-5795MHz
Max. RF output power:	2.4G SRD: 19.07dBm 2.4G Wi-Fi: 18.37dBm 5G Wi-Fi U-NII-1: 11.81dBm, U-NII-2A: 11.44dBm, U-NII-2C: 13.95dBm, U-NII-3: 9.34dBm
Type of Modulation:	2.4G SRD: GFSK Wi-Fi: DSSS, OFDM, OFDMA
TX Power Control (TPC):	Not support
Type of Device	Slave Device without Radar Detection
Channel Separation:	2.4G SRD: 2MHz, 5Mz Wi-Fi: 20MHz, 40MHz
Antenna Type:	Monopole antenna
Antenna number:	2
Antenna Gain:	2.4G SRD: 2.8dBi 2.4G Wi-Fi: -2.81dBi

5G Wi-Fi:

U-NII-1: -4.6dBi, U-NII-2A: -4.6dBi, U-NII-2C: -0.49dBi, U-NII-3: -2.19dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTEK lab has not verified the authenticity of its information.

Ratings:

DC 5V 500mAh

Adapter:

Model: KA12C-0501500US

Input: 100-240V~ 50/60Hz 0.35A Max

Output: 5V = 1500mA

4.3. Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

4.4. Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.5. Abnormalities from Standard Conditions

None.

5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	47CFR Part 2 §2.1091	PASS

6. RF Exposure

Test Requirement: FCC 47CFR Part 2 Subpart J Section 2.1091
 47 CFR Part 1 §1.1307
 47 CFR Part 1 §1.1310
 Evaluation Method: KDB 447498 D01 General RF Exposure Guidance v06

6.1. Definitions

According to § 2.1091 (b), 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 RF source's radiating structure(s) and the body of the user or nearby persons.

This device belongs to mobile device and with multiple RF sources.

6.2. Method of Evaluation

Determination of Exemption:
For single RF sources

Option A

Option A 1-mW Test Exemption

Applies to all frequencies and all distances

- Could be considered SAR-based and MPE-based exclusions
- $P < 1\text{mW}$
- Limitation—when there are simultaneously operating transmitters this exclusion only applies when all simultaneously operating transmitters meet this exemption
- Refer 1.1307(b)(3)(i)(A) and 1.1307(b)(3)(ii)(A)

Option B SAR-Based Exemption

Frequency range 300 MHz -6 GHz, $5\text{mm} \leq \text{distance} \leq 40\text{cm}$

- The maximum time-averaged power or effective radiated power (ERP), whichever is greater, $\leq P_{th}$.
- P_{th} is calculated based on separation distance d cm from transmitter to person for the device operating at f GHz.

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

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);

Option C MPE-Based Exemption

1.1307(b)(3)(i)(C): ERP is below a threshold calculated based on the distance R between the person and the antenna / radiating structure, where $R > \lambda / 2\pi$.

Table 1 to § 1.1307(b)(3)(i)(C) - 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	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.
Note: R in meters, f in MHz	

For multiple RF sources

According to 47CFR 1.1307(b)(3)(ii), the calculation formula is as follow:

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

6.3. Evaluation Results

This device belongs to mobile device (separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and the body of the user or nearby persons) and with multiple RF sources.

Option B is applicable.

Single Source Transmissions

Description	Frequency GHz	Conducted Power dBm	Gain dBi	Tune-up dB	ERP mW	ERP _{th} mW	Ratio
2.4G SRD	2.440	19.07	2.8	±1.0	118.07	3060	0.03859
2.4G Wi-Fi	2.412	18.37	-2.81	±1.0	27.62	3060	0.00902
5G Wi-Fi U-NII-1	5.180	11.81	-4.6	±1.0	4.04	3060	0.00132
5G Wi-Fi U-NII-2A	5.280	11.44	-4.6	±1.0	3.71	3060	0.00121
5G Wi-Fi U-NII-2C	5.510	13.95	-0.49	±1.0	17.03	3060	0.00556
5G Wi-Fi U-NII-3	5.745	9.34	-2.19	±1.0	3.98	3060	0.00130

Note:

EIRP= Conducted Power +Gain, ERP=EIRP-2.15

Simultaneous Transmissions

Description	Calculation	Limit
2.4G SRD + 2.4G Wi-Fi	0.04761	≤1.0
2.4G SRD + 5G Wi-Fi U-NII-2C	0.04415	≤1.0

Note:

1. Chose the maximum power to do analysis.
2. 2.4G Wi-Fi and 5G Wi-Fi share the same antenna and can't transmit simultaneously.

Conclusion:

RF Exposure is FCC compliant.

=====End of Report=====