



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



RF EXPOSURE EVALUATION

Applicant: Nanjing WEILAN Intelligent Technology Co., Ltd.

Address: 20F, Building B2, Jingfenglechuang, No.68, Huachuang Road, Pukou District, Nanjing City, Jiangsu Province, China

FCC ID: 2BK3Y-WL4DQCNG1

Product Name: BabyAlpha Dev-Q

Standard(s): 47 CFR §1.1307, 47 CFR §2.1091
447498 D04 Interim General RF Exposure Guidance
v01

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2403X59131E-RF-00G

Date Of Issue: 2024/11/22

Reviewed By: Calvin Chen

Title: RF Engineer

Approved By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China
Tel: +86-769-82016888

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403X59131E-RF-00G	Original Report	2024/11/22

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	BabyAlpha Dev-Q
EUT Model:	WL4DQCN/G1
Rated Input Voltage:	DC 25.2V from battery or DC 29.4V charging from adapter
EUT Received Date:	2024/10/7
EUT Received Status:	Good

2. RF EXPOSURE EVALUATION

2.1 Applicable Standard

According to §1.1307(b)(3)(i)

(C) Or 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).

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	$19.2 R^2$.

2.2 Measurement Result

Radio	Frequency (MHz)	$\lambda/2\pi$ (mm)	Distance (mm)	Exemption ERP (mW)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP	
							dBm	mW
BDR/EDR	2402-2480	19.88	200	768	7	0.98	5.83	3.83
BLE	2402-2480	19.88	200	768	6	0.98	4.83	3.04
2.4G Wi-Fi	2412-2462	19.80	200	768	22	0.98	20.83	121.06
5.2G Wi-Fi	5180-5230	9.22	200	768	12	3.39	13.24	21.09
5.3G Wi-Fi	5260-5320	9.08	200	768	12	3.10	12.95	19.72
5.6G Wi-Fi	5500-5700	8.68	200	768	12	3.17	13.02	20.04
5.8G Wi-Fi	5745-5825	8.31	200	768	12.5	2.48	12.83	19.19

Note:

1. The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.
2. The Bluetooth and Wi-Fi cannot transmit simultaneously.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

3. EUT PHOTOGRAPHS

Please refer to the attachment 2403X59131E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and
2403X59131E-RF-INP EUT INTERNAL PHOTOGRAPHS

===== END OF REPORT =====