



RF Exposure Evaluation Declaration

Report No.: S20250916065902

Issue Date: 2025-12-08

Applicant: ARCGine Technologies Co., Ltd.
Address: Yunxi Valley Digital Industrial Park, Xiangzhou District, Zhuhai City, China
FCC ID: 2BRP3ARCG
Application Type: Certification
Product: DQube
Model No.: DQRID01
Trade Mark: /
FCC Rule Part(s): CFR 47, FCC Part 2.1091 Radio frequency radiation exposure evaluation: mobile devices.
Item Receipt date: Nov. 17, 2025
Test Date: Nov. 18 ~ Nov. 25, 2025



扫一扫验真伪

Compiled By

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(Stone Zhang)
Senior Test Engineer

Approved By

Line Chen

(Line Chen)

Engineer Manager



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

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The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S20250916065902	Rev. 01	/	2025-12-08

CONTENTS

Description	Page
§2.1033 General Information	4
1. Product Information	5
1.1. Equipment Description	5
1.2. Product Specification Subjective to this Report	5
2. RF Exposure Evaluation	6
2.1. Limits	6
2.2. Calculation Method	7

§2.1033 General Information

Applicant:	ARCGine Technologies Co., Ltd.
Applicant Address:	Yunxi Valley Digital Industrial Park, Xiangzhou District, Zhuhai City, China
Manufacturer:	ARCGine Technologies Co., Ltd.
Manufacturer Address:	Yunxi Valley Digital Industrial Park, Xiangzhou District, Zhuhai City, China
Factory:	ARCGine Technologies Co., Ltd.
Factory Address:	Yunxi Valley Digital Industrial Park, Xiangzhou District, Zhuhai City, China
Test Site:	Fanguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
LAB registration number:	600222-0
Test Site Address:	No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	FCC Part 2.1091
FCC ID:	2BRP3ARCG
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering

1. Product Information

1.1. Equipment Description

Product Name:	DQube
Test Model:	DQRID01
Trade Mark:	/
Input Voltage Range:	DC 3.7 V from battery
Software Version:	V1.0.5
Hardware Version:	V1.3
EUT sample number:	S20250916065902-1-1 (Conducted) S20250916065902-1-2 (Radiated)

Note: This information is provided by the Customer and its authenticity is the responsibility of the Customer.

1.2. Product Specification Subjective to this Report

Bluetooth Frequency	BLE: 2402~2480MHz
Number of Channels	BLE: 40
Channel Spacing	2MHz
Type of modulation	GFSK
Data Rate	1Mbps
Antenna Type:	PCB antenna
Antenna Gain:	3.96dBi

Note: The maximum Antenna Gain was declared by the manufacturer.

2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f= Frequency in MHz

Calculation Formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

For simultaneous transmission exposure cases, calculation formula is:

$$\sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

2.2. Calculation Method

Temperature:	21.8 °C
Relative Humidity:	52 %
ATM Pressure:	101.7 kPa
Test Date:	2025-11-24
Test Engineer:	Stone Zhang

Product	DQube
Test Item	RF Exposure Evaluation

Mode	Frequency (MHz)	Maximum Conducted Output Power (dBm)	Antenna Gain (dBi)	PG		MPE (mW/cm ²)	MPE Limits (mW/cm ²)
				(dBm)	(mW)		
BLE	2480	2.96	3.96	6.92	4.92	0.000979	1.00

Remark1: MPE use distance is 20cm from manufacturer declaration of user manual.

Remark2: Use the maximum gain of all bands when evaluating.

CONCULISON:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

Statement

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7. This report is issued by the following laboratory premises:

No.8 Ningyun Rd., Xinwu District Wuxi, Jiangsu 214000 China

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