

RF Exposure Evaluation Declaration

Report No.: S20250320444601E02

Issue Date: 11-21-2025

Applicant: HONG KONG YUHENG NETWORK TECHNOLOGY CO.,
LIMITED

Address: RM A07, 1701-02 NEW TREND CENTRE, 704 PRINCE
EDWARD RD EAST, SAN PO KONG HONG KONG

FCC ID: 2BOG8DSPRO

Product: Digital Shield Wallet

Model No.: Digital Shield Pro

Trade Mark: Digital Shield

FCC Rule Part(s): CFR 47, FCC Part 2.1093 Radiofrequency radiation exposure
evaluation: portable devices.

Item Receipt date: Jun. 25, 2025

Test Date: Jul. 01, ~ Oct. 31, 2025

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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
S20250320444601E02	Rev. 01	/	11-21-2025

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§2.1033 General Information

Applicant:	HONG KONG YUHENG NETWORK TECHNOLOGY CO., LIMITED
Applicant Address:	RM A07, 1701-02 NEW TREND CENTRE, 704 PRINCE EDWARD RD EAST, SAN PO KONG HONG KONG
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FCC Rule Part(s):	FCC Part 2.1093
FCC ID:	2BOG8DSPRO
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Digital Shield Wallet
Model Name:	Digital Shield Pro
Trade Mark:	Digital Shield
Input Voltage Range:	DC 3.7V with battery, DC 5V for charging mode
Bluetooth Version:	5.0
Software Version:	1.2.1
Hardware Version:	v1.1
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

Operating Frequency:	BLE: 2402~2480MHz
Channel Number:	BLE: 40
Channel Spacing	BLE: 2MHz
Type of modulation:	BLE: GFSK
Data Rate:	1Mbps/2Mbps
Antenna Type:	Ceramic Antenna
Antenna Gain:	1.69dBi

2. RF Exposure Evaluation

2.1. Limits

Exposure category: General population/uncontrolled environment

EUT Type: Production Unit

Device Type: Portable Device

According to the KDB 447498 D04 Interim General RF Exposure Guidance v01:

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time averaged power or maximum time-averaged ERP, whichever is greater. If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of $\lambda/4$. As for devices with antennas of length greater than $\lambda/4$ where the gain is not well defined, but always less than that of a half-wave dipole (length $\lambda/2$), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known. The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna. The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW). This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 CHz to 6 GHz (inclusive). P_{th} is given by Formula as below:

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

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

2.2. Test Result of RF Exposure Evaluation

Product	Digital Shield Wallet
Test Item	RF Exposure Evaluation

Table 1 Antenna Specification

Mode	Antenna type	Maximum antenna gain
BLE	Ceramic Antenna	1.69dBi

Table 2 Transmit Power

Mode	Peak Conducted Output Power (dBm)	EIRP (dBm)	Target EIRP (dBm)	Tolerance (dB)
BLE	-0.33	1.36	2	±1.0

Note: EIRP= Maximum Conducted Output peak Power + antenna gain.

STANDALONE MPE

For BLE:

Mode	Frequency (MHz)	Maximum Tune-up ERP (dBm)	Maximum Tune-up ERP (mW)	Exemption Limit (mW)	Verdict
BLE	2402-2480	-0.15	0.97	2.72	PASS

Remark:

1. ERP=EIRP-2.15.

2. Threshold ERP(mW) = $3060 \times (0.5/20)^{-\log(\frac{60}{3060\sqrt{f}})}$ = $3060 \times (0.5/20)^{-\log(\frac{60}{3060\sqrt{2.480}})}$ = 2.72mW.

3. For BLE refer to report S20250320444601E01.

CONCULISON:

The measurement results comply with the FCC Limit per CFR 47, FCC Part 2.1093 Radio frequency radiation exposure evaluation: portable devices.

Statement

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6. If the reports include both Chinese and English versions, when there are any inconsistencies caused by language, the Chinese version shall prevail.
7. Information about laboratory sites involved in our company:

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