

TEST REPORT

Reference No. : WTD25D02042167W005
FCC ID : 2BNYR-SW
Applicant : SNAPWIRELESS PTY LTD
Address : OFFICE 9, 108-120 MARION ROAD, BROOKLYN PARK SA, Australia 5032
Manufacturer : SNAPWIRELESS PTY LTD
Address : OFFICE 9, 108-120 MARION ROAD, BROOKLYN PARK SA, Australia 5032
Product : 5 in 1 Wallet Power Bank
Model(s) : SW-XXX (XXX indicates different colors)
Brand : **SNAP**
Standards : FCC 47CFR Part 1.1307
Date of Receipt sample : 2025-04-08
Date of Test : 2025-04-10 to 2025-04-21
Date of Issue : 2025-05-30
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.

Prepared By:
Waltek Testing Group Co., Ltd.

Address: No. 77, Houjie Section, Guantai Road, Houjie Town, Dongguan City, Guangdong, China
Tel: +86-769-2267 6998
Fax: +86-769-2267 6828

Compiled by:



Estel Qian / Project Engineer

Approved by:



Deval Qin / Designated Reviewer



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3. Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D02042167W005	2025-04-08	2025-04-10 to 2025-04-21	2025-05-30	Original	-	Valid

4. General Information

4.1. General Description of E.U.T.

Product: 5 in 1 Wallet Power Bank
Model(s): SW-XXX (XXX indicates different colors)
Model Description: Only the model colors are different. Model SW-BLK was tested in the report.
Test Sample No.: 1-1/1
Bluetooth Version: V5.2
Hardware Version: V1.0
Software Version: V1.0

4.2. Details of E.U.T.

Operation Frequency: 2402~2480MHz
Max. RF output power: 2.31dBm
Modulation Technology: GFSK
Antenna installation: PCB printed antenna
Antenna Gain: 1.6dBi

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.

Capacity: 3000mAh/3.85V/11.55Wh

USB-C Input:5V---2A

Ratings: USB-C Output:5V---2A

Wireless TX: 7.5W

Total Maximum Output:10W

Note: for more details, please refer to user manual and EUT photos.

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
Radiofrequency radiation exposure evaluation (Exposure of Humans to RF Fields)	47 CFR Part 2 §2.1093	PASS

6. RF Exposure

Test Requirement: FCC 47CFR Part 2 Subpart J Section 2.1093
 47 CFR Part 1 §1.1307

47 CFR Part 1 §1.1310

Evaluation Method: 447498 D04 Interim General RF Exposure Guidance v01

6.1. Definitions

According to § 2.1093 (b), A portable 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 the RF source's radiating structure(s) is/are within 20 centimeters of the body of the user.

This device belongs to Portable Device and with multiple RF source.

6.2. Method of Evaluation

Determination of Exemption:

For single RF sources

Option A 1-mW Test Exemption

Applies to all frequencies and all distances

- a) Could be considered SAR-based and MPE-based exclusions
- b) $P < 1\text{mW}$
- c) Limitation—when there are simultaneously operating transmitters this exclusion only applies when all simultaneously operating transmitters meet this exemption
- d) 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, $5\text{mm} \leq \text{distance} \leq 40\text{cm}$

- a) The maximum time-averaged power or effective radiated power (ERP), whichever is greater, $\leq P_{th}$.
- b) 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^2f .
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

Single Source Transmissions

For BLE

Option B is applicable.

Separation distance d=5mm

Description	Frequency (GHz)	Conducted Power (dBm)	Gain (dBi)	Max. tune-up ¹				P _{th} (mW)	Ratio		
				EIRP ²		ERP ³					
				(dBm)	(mW)	(dBm)	(mW)				
BLE	2.480	2.31	1.6	4.91	3.10	2.76	1.89	2.72	0.695		

Note:

¹ tune-up tolerance is +/- 1.

² EIRP= Conducted Power +Gain

³ ERP=EIRP-2.15

For WPT

H-field ratio= 0.431/1.63 = 0.264

Note:

The data refer to test report (Waltek Testing Group Co., Ltd. Report reference No.: WTD25D02042167W004).

Multiple Source Transmissions

Description	Calculation	Limit
WPT+BLE	0.959	≤1.0

Conclusion:

RF Exposure is FCC compliant.

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