

FCC TEST REPORT

Report No.....: AB25100095FW02

FCC ID.....: **2ATWZ-FRIGGASV2**

Applicant.....: Shanghai Dewav IoT Technology Co.,Ltd.

Address.....: No.3 Building, Lane 739 of Kangwei Road, Pudong New Area,
Shanghai, 201315,P.R.China

Manufacturer.....: Shanghai Dewav IoT Technology Co.,Ltd.

Address.....: No.3 Building, Lane 739 of Kangwei Road, Pudong New Area,
Shanghai, 201315,P.R.China

Product Name.....: Frigga SV2

Trade Mark.....: Frigga

Test Model.....: Frigga SV2-B-Li-120

Additional Model(s).....: Frigga SV2-E-Li-120, Frigga SV2-G-Li-120, Frigga
SV2-B-Non-li-120, Frigga SV2-E-Non-li-120, Frigga
SV2-G-Non-li-120, FriggaSV2-J-Non-li-120, Frigga SV2-J-Li-120

Standard.....: FCC Part 2 (Section 2.1091);KDB 447498 D01;IEEE C95.1

Date of Receipt.....: 2025.10.30

Date of Issue.....: 2025.11.28

Test Result.....: Pass

Compiled by:
(Printed Name + Signature)

Huaijie Li

Huaijie Li

Supervised by:
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David Huang

Approved by:
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Jay Liu

Jay Liu

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park,
Tianliao Community, Yutang Street, Guangming District, Shenzhen
City, Guangdong Province, China

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FCC TEST REPORT

EUT.....	: Frigga SV2
Test Model.....	: Frigga SV2-B-Li-120
Applicant.....	: Shanghai Dewav IoT Technology Co.,Ltd.
Address.....	: No.3 Building, Lane 739 of Kangwei Road, Pudong New Area, Shanghai, 201315,P.R.China
Manufacturer.....	: Shanghai Dewav IoT Technology Co.,Ltd.
Address.....	: No.3 Building, Lane 739 of Kangwei Road, Pudong New Area, Shanghai, 201315,P.R.China

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

REPORT VERSION

Version No.	Issue Date	Description
01	2025.11.28	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	Frigga SV2	
Trade Mark:	Frigga	
Test Model:	Frigga SV2-B-Li-120	
Additional Model(s):	Frigga SV2-E-Li-120, Frigga SV2-G-Li-120, Frigga SV2-B-Non-li-120, Frigga SV2-E-Non-li-120, Frigga SV2-G-Non-li-120, FriggaSV2-J-Non-li-120, Frigga SV2-J-Li-120	
Model Difference:	All models are the same circuit and RF module, except the model name	
Hardware Version:	SVMR21B	
Software Version:	V1.0	
Power Supply	DC 3.7V 1A	
Battery	3.7V/800mAh	
EUT Supports Function: (Provided by the customer)	E-UTRA Bands:	LTE Band 2/4/5/7/38/40/41/66
Test Sample(s) Number:	AB25100095-01 (Engineer Sample)	
Radio Specification Subject to this Report		
Support Networks:	Band 2 / 4 /5/ 7 / 38 / 40 / 41/66	
Frequency Range:	Band 2	1850MHz–1910MHz
	Band 4	1710MHz–1755MHz
	Band 5	824MHz–849MHz
	Band 7	2500MHz–2570MHz
	Band 38	2570MHz–2620MHz
	Band 40-1	2305MHz–2315MHz
	Band 40-2	2350MHz–2360MHz
	Band 41	2496MHz–2690MHz
	Band 66	1710MHz –1780MHz
Modulation Type:	QPSK, 16QAM	
Channel Bandwidth:	Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 7	5MHz, 10MHz, 15MHz, 20MHz
	Band 38	5MHz, 10MHz, 15MHz, 20MHz
	Band 40-1	5MHz, 10MHz
	Band 40-2	5MHz, 10MHz
	Band 41	5MHz, 10MHz, 15MHz, 20MHz
	Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	Band 2	-1.02 dBi
	Band 4	-0.7 dBi
	Band 5	-0.88 dBi

	Band 7	0.29 dBi
	Band 38	0.21 dBi
	Band 40-1	0.19 dBi
	Band 40-2	0.19dBi
	Band 41	0.20 dBi
	Band 66	0.18dBi

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +(86) 0755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

CAB identifier: CN0185

2. RF EXPOSURE EVALUATION

2.1 Limit

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)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = output power to antenna in mW;

G = gain of antenna in linear scale, $\pi = 3.1416$;

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

P_d is the limit of MPE, 1 mW/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.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Evaluation Result

Mode	RF Power	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
LTE band 2	24.35	23.330	215.278	0.042828	1.0	PASS
LTE band 4	24.03	23.330	215.278	0.042828	1.0	PASS
LTE band 5	22.73	19.70	93.33	0.018567	0.56	PASS
LTE band 7	24.54	24.830	304.089	0.060496	1.0	PASS
LTE band 38	23.90	24.110	257.632	0.051254	1.0	PASS
LTE band 40-1	23.74	23.930	247.172	0.049173	1.0	PASS
LTE band 40-2	23.48	23.670	232.809	0.046316	1.0	PASS
LTE band 41	24.85	25.050	319.890	0.063640	1.0	PASS
LTE band 66	24.07	24.250	266.073	0.052933	1.0	PASS

So a SAR test is not required

*****THE END*****