

FCC TEST REPORT

Report No.....: AB26050506FW03

FCC ID.....: **2BWN8-BAYS-QFL01**

Applicant.....: BAYS TECHNOLOGY INC

Address.....: 4405 Canada Way, Burnaby, British Columbia, Canada

Manufacturer.....: NEO Smart Technology (GuangDong) Co., LTD

Address.....: Floor 7, 8, 9, 10, Building 28, No. 29, Licheng Industrial Avenue,
Shuikou Street, Huicheng District, Huizhou City

Product Name.....: BAYS Valve Controller

Trade Mark.....: BAYS

Test Model.....: BAYS_QFL01

Additional Model(s).....: NAS-WV10

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

Date of Receipt.....: 2026.06.01

Date of Issue.....: 2026.06.10

Test Result.....: Pass

Compiled by: Huaijie Li
(Printed Name + Signature)



Supervised by: David Huang
(Printed Name + Signature)



Approved by: Jay Liu
(Printed Name + Signature)



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

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REPORT VERSION

Version No.	Issue Date	Description
01	2026.06.10	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	BAYS Valve Controller
Trade Mark:	BAYS
Test Model:	BAYS_QFL01
Additional Model(s):	NAS-WV10
Model Difference	All models are the same circuit and RF module, except the model name
Hardware Version:	NAS-WV10L1 -MAIN- V3 2026.04.21
Software Version:	V1.1.11
Power Supply:	DC 5V/1A
Battery	DC 3.7V/2400mAh
Test Sample(s) Number:	AB26050506-01 (Engineer Sample)
Radio Specification Subject to this Report	
Frequency Range:	915MHz
Channel Spacing:	2MHz
Channel Number(s):	1
Antenna Type:	Internal Antenna
Antenna Gain:	2.87dBi(Max.)
Radio Specification Subject to this Report	
Radio Specification:	IEEE 802.11b/g/n
Frequency Range:	2412MHz~2462MHz for IEEE 802.11b/g/n(HT20)
Modulation Type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Channel Number(s):	11 Channels for IEEE 802.11b/g/n(HT20)
Antenna Type:	Internal Antenna
Antenna Gain:	2.29dBi(Max.)

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.: +86 755 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

Company Number: 33924

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	Total Power (dBm)	Antenna Gain	Max.EIRP (dBm)	Max.EIRP (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
2.4G WIFI	5.62	2.29	7.91	6.180	0.001230	1.0	PASS

Mode	Frequency (MHz)	Power (dBuV/m)	Power (dBm)	Power (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)
LoRa	915	82.80	-12.4	0.0575440	0.00001145	0.610

Results for transmit simultaneously

No.	Configurations	Maximum MPE Value mW/cm ²		Transmit simultaneously	Limits
1	2.4G WIFI+LoRa	0.001230	0.00001877	0.00124877	1

At the transmit simultaneously calculation method is as follows:

Transmit simultaneously MPE = $\sum$ of MPE ratios²

MPE ratios = Field strengths or power density / MPE limit at the test frequency

So a SAR test is not required

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