

RF Exposure Report

For

Applicant name: Shanghai AllyNav Technology Co.,Ltd.

Room 201, Buliding 1, No 215, Gaoguang RD, Qingpu District, Address:

Shanghai, China

EUT name: **GNSS** Receiver

Brand name:

Model number: R62

Series model number: N/A

FCC ID: 2AT4H-R62

Issued By

Company name: BTF Testing Lab (Shenzhen) Co., Ltd.

101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Address:

Community, Songgang Subdistrict, Bao'an District, Shenzhen, China

Report number: BTF250625R00405

Test standards: 47 CFR Part 2 Subpart J Section 2.1091

Test conclusion: **Pass**

Date of sample

Email: info@btf-lab.com

2025-02-10 receipt:

Test date: 2025.02.20-2025.06.03

Date of issue: 2025-07-09

Prepared by: Chris Live

Chris Liu/ Project

engineer

Approved b manager

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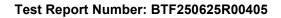
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Tel: +86-755-23146130

101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China http://www.btf-lab.com

Version: 1/00

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Revision History				
Version	Issue Date	Revisions Content		
R_V0	2025-07-09	Original		
Note:	Once the revision has b	Once the revision has been made, then previous versions reports are invalid.		

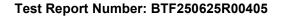




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Test Report Number: BTF250625R00405

1. Introduction

1.1 Laboratory Location

	Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.			
Address: 101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, S Subdistrict, Bao'an District, Shenzhen, China		101/201/301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China			
Phone number: +86-0755-23146130		+86-0755-23146130			
Fax number: +86-0755-23146130		+86-0755-23146130			

1.2 Laboratory Facility

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

FCC - Designation No.: CN1409

BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.

ISED – CAB identifier.: CN0135

The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.

CNAS - Registration No.: CNAS L17568

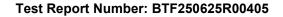
BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.

A2LA - Registration No.: 6660.01

BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2. Product Information

2.1 Application Information

Company Name:	Shanghai AllyNav Technology Co.,Ltd.	
Address:	Room 201, Buliding 1,No 215, Gaoguang RD, Qingpu District,Shanghai, China	

2.2 Manufacturer Information

Company Name:	Shanghai AllyNav Technology Co.,Ltd.
Address:	Room 201, Buliding 1,No 215, Gaoguang RD, Qingpu District,Shanghai, China

2.3 Factory Information

Company Name:	Shanghai AllyNav Technology Co.,Ltd.
Address:	Room 201, Buliding 1,No 215, Gaoguang RD, Qingpu District,Shanghai, China

2.4 General Description of Equipment under Test (EUT)

EUT name	GNSS Receiver
Under test model name	R62
Series model name	N/A
Description of model name differentiation	N/A
Hardware Version	D515 V2.0
Software Version	D515_V015En20241021
Rating:	DC12V 2A



Test Report Number: BTF250625R00405

3. Test Requirement

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	Electric field	Magnetic field strength	Power density	Averaging time		
(MHz)	strength(V/m)	(A/m)	(mW/cm ²)	(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 - 1500–100,000 -		-	f/1500	30		
		-	1.0	30		

Note: f = frequency in MHz

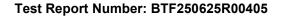
EVALUATION METHOD

Transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

Pd = power density in mW/cm², Pout = 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





3.1 Assessment Result

⊠ Passed ■ Not Applicable

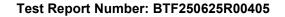
Modulation	Output power (Target)		Antenna Gain	Antenna Gain	MPE	MPE Limits
Туре	dBm	mW	(dBi)	(linear)	(mW/cm ²)	(mW/cm ²)
2.4GHz	22.00	158.49	2.7	1.862	0.0587	1.0000
BT	3.00	2.00	2.7	1.862	0.0007	1.0000
BLE	1.00	1.26	2.7	1.862	0.0005	1.0000
LTE Band 2	26.00	398.11	2.3	1.698	0.1345	1.0000
LTE Band 4	26.00	398.11	0.5	1.122	0.0889	1.0000
LTE Band 5	25.00	316.23	1.1	1.288	0.0810	0.5493
LTE Band 12	25.00	316.23	-7.5	0.178	0.0112	0.4660
LTE Band 41	27.00	501.19	1.7	1.479	0.1475	1.0000

Simultaneous Transmitting;

WIFI 2.4G+LTE Band 5=0.0587/1+0.0810/0.5493=0.206<1

Note:

- 1.If nothing else, the report will only record the worst power.
- 2. The Maxinum power is less than the limit, complies with the exemption requirements.
- 3. Output power (AVG) including turn-up tolerance;
- 4. The calculated distance is 20 cm.







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-- END OF REPORT--