

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR220900037706

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TEST REPORT

Application No.: FYCR2209000377AT

Applicant: Navico Inc.

Address of Applicant: 4500 S. 129th East Avenue, Ste. 200, Tulsa, Oklahoma, 74134 United

States

Manufacturer: Navico Auckland Ltd.

Address of Manufacturer: 44 Arrenway Drive, Rosedale, Auckland 0632, New Zealand

Factory: Shenzhen Fastrain Technology Co., Ltd.

Address of Factory: No.3 Baolong 4th Rd., Baolong Industrial Area, Longgang District,

Shenzhen, China

Equipment Under Test (EUT):

EUT Name: MARINE BLACK BOX DSC/AIS VHF RADIO SYSTEM

Model No.: NRS-2
Trade mark: NAVICO

Standard(s): 47 CFR Part 15, Subpart B

Date of Receipt: 2022-09-21

Date of Test: 2022-10-21 to 2022-10-24

Date of Issue: 2022-11-30

Test Result: Pass*

Winkey Wang
EMC Technical Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2022-11-30		Original			

Authorized for issue by:			
	Tree Zhan		
	Tree Zhan/Project Engineer	-	
	WinkeyWang		
	Winkey Wang/Reviewer	-	



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2 Test Summary

Emission Part							
Item	Standard	Method	Requirement	Result			
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15,	ANSI C63.4:2014	15.109(a);Class B	Pass			
Radiated Emissions (Above 1GHz)	Subpart B	ANSI C63.4:2014	15.109(g);Class B	Pass			



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V
Cable:	DC cable: longer than 300cm unshielded
Sample Type:	Mobile device
Internal Source:	More than 108MHz

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

<u> </u>						
Description	Manufacturer	Model No.	Serial No.			
DC power	ZHAOXIN	RXN-305D	REF. No.SEA2700			
Coaxial Attenuator	Provided by client	TS4	HYT168793			
Cell Site Test Set	HP	8921A	3633A04615			
Audio Analyzer	Rohde & Schwarz	UPV	SEM008-03			
MFD	B&G	/	/			
Wired Handset	SIMRAD	HS100	/			
Wired Speaker	/	SP100	/			
Wired Handset	B&G	H100	/			
Wired Speaker	/	SP100	/			
GNSS antenna	NAVICO	GPS-500	/			

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions (30MHz-1GHz)	± 3.1dB (Below 1GHz)
Radiated Emissions (Above 1GHz)	± 4.4dB (Above 1GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispt/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark,Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

A2LA (Certificate No. 6606.01)

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• FCC -Designation Number: CN1322

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• Innovation, Science and Economic Development Canada

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None





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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Biconical Antenna	Schwarzbeck	VUBA9117	SEM003-35	2021/12/26	2024/12/25
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2022/4/24	2023/4/23
Pre-amplifier	Compliance Directions Systems	PAP-2640-50	SEM005-08	2022/7/12	2023/7/11



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	Inc.				
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2022/7/12	2023/7/11
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2022/4/15	2023/4/14
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2022/4/15	2023/4/14

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022-07-12	2023-07-11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022-07-12	2023-07-11
Barometer	DUMAI	DYM3	SEM002-24	2022-07-12	2023-07-11



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6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

	dBuV/m (At 10m)	dBuV/m (At 3m)			
FREQUENCY (MHz)	Class B	Class B			
30MHz -88MHz	29.5(dBμV/m) quasi-peak	40.0(dBμV/m) quasi-peak			
88MHz-216MHz	33.1(dBμV/m) quasi-peak	43.5(dBμV/m) quasi-peak			
216MHz-960MHz	35.6(dBμV/m) quasi-peak	46.0(dBμV/m) quasi-peak			
960MHz-1000MHz	43.5(dBμV/m) quasi-peak	54.0(dBµV/m) quasi-peak			
Detector: Peak for	Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to 1000MHz				

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description					
Pre-scan	04	On mode, keep EUT working normally(NRS-2).					
Pre-scan	05	Idle mode, Keep the EUT at standby mode(NRS-2).					
Pre-scan	06	Power Off, keep the EUT unpowered(NRS-2).					
Pre-scan	07	Power On, Keep the EUT powered(NRS-2).					
Pre-scan	13	/ireless mode, Keep the EUT communicate with other wireless devices(NRS-).					
Pre-scan	14	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi(NRS-2).					
Final test	15	Normal operating_Keep the EUT communication with the companion device(8921A)(NRS-2).					
Pre-scan	16	Rx mode, Keep the EUT in receiving mode for GNSS(NRS-2).					
Pre-scan	17	Idle mode, Keep the EUT at standby mode(NRS-2).					



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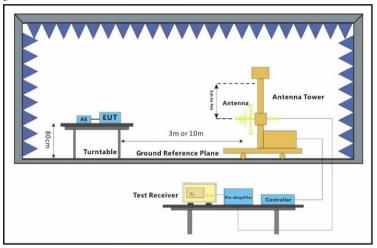


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6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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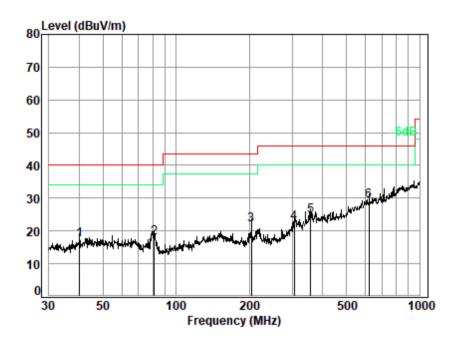


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Test Mode: 15; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00377AT

Mode : 15

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.1347	0.20	16.76	26.01	26.35	17.30	40.00	-22.70	OP
2	81.2117								-
3	204.2377								-
4	305.6800	1.07	18.57	25.40	28.26	22.50	46.00	-23.50	QP
5	356.6758	1.54	19.68	25.43	28.87	24.66	46.00	-21.34	QP
6	620.7097	2.20	24.69	24.90	27.32	29.31	46.00	-16.69	OP



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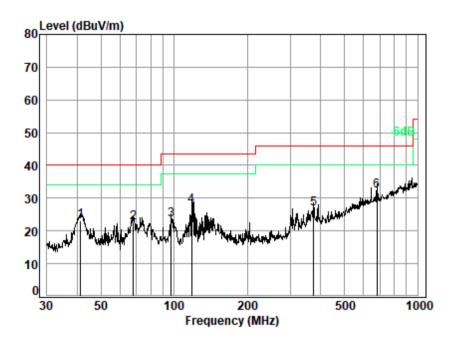


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Test Mode: 15; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL Job No : 00377AT

Mode : 15

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	41.2765	0.21	17.01	26.01	31.89	23.10	40.00	-16.90	QP
2	67.9129	0.29	16.37	25.87	31.81	22.60	40.00	-17.40	QP
3	97.4560	0.83	14.07	25.62	34.09	23.37	43.50	-20.13	QP
4	118.1862	0.97	15.56	25.57	36.58	27.54	43.50	-15.96	QP
5	374.6226	1.60	20.04	25.44	30.43	26.63	46.00	-19.37	QP
6	679.9600	1.87	25.62	24.65	29.50	32.34	46.00	-13.66	QP



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6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Measurement Distance: 3m

Limit:

Above 1GHz 74(dBµV/m) peak, 54(dBµV/m) average at 3m distance

83.54(dBµV/m) peak, 63.54(dBµV/m) average at 1m distance

Detector: Peak for pre-scan (1MHz resolution bandwidth) 1GHz to 40GHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.0 % RH Atmospheric Pressure: 1020 mbar

6.2.2 Test Mode Description

0.2.2 1651	wode Descrip	out on the state of the state o						
Pre-scan / Final test	Mode Code	Description						
Pre-scan	04	On mode, keep EUT working normally(NRS-2).						
Pre-scan	05	Idle mode, Keep the EUT at standby mode(NRS-2).						
Pre-scan	06	Power Off, keep the EUT unpowered(NRS-2).						
Pre-scan	07	Power On, Keep the EUT powered(NRS-2).						
Pre-scan	13	Vireless mode, Keep the EUT communicate with other wireless devices(NRS-						
Pre-scan	14	Operation(2.4G Wi-Fi):Keep the EUT communicating with router via 2.4G Wi-Fi(NRS-2).						
Final test	15	Normal operating_Keep the EUT communication with the companion device(8921A)(NRS-2).						
Pre-scan	16	Rx mode, Keep the EUT in receiving mode for GNSS(NRS-2).						
Pre-scan	17	Idle mode, Keep the EUT at standby mode(NRS-2).						



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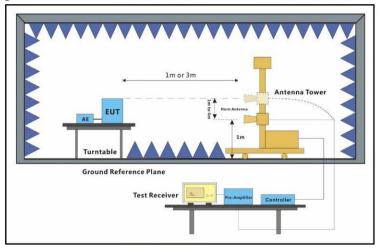


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6.2.3 Test Setup Diagram



6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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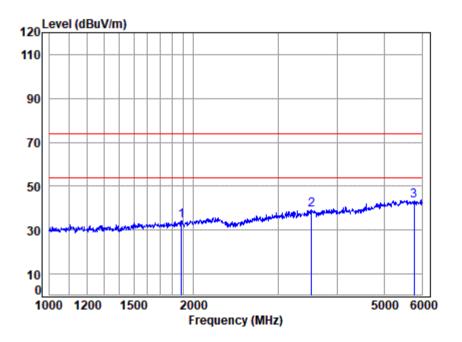


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Test Mode: 15; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : 00377AT

Mode : 15 Note :

> 1 2 3

Freq			Preamp Factor					
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1885.669	4.55	25.64	53.05	57.05	34.19	74.00	-39.81	Peak
3524.036 5778.433								



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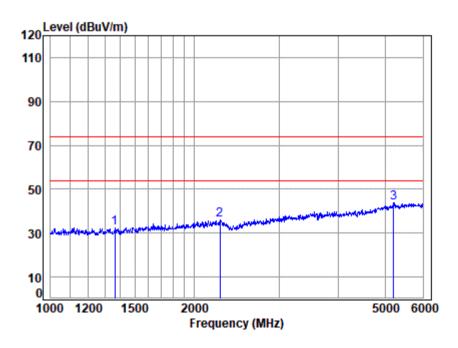


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Test Mode: 15; Polarity: Vertical



Site : chamber Condition: 3m VERTICAL Job No : 00377AT

Mode : 15 Note :

		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1363.390	3.50	24.22	52.77	57.40	32.35	74.00	-41.65	Peak
2	2259.742	4.96	26.86	53.10	57.11	35.83	74.00	-38.17	Peak
3	5208.076	8.29	31.91	53.03	56.69	43.86	74.00	-30.14	Peak



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7 Test Setup Photo

Refer to test setup photo for "FYCR2209000377AT Appendix SetupPhoto NRS-2".

8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos of EUT Constructional Details for "FYCR2209000377AT Appendix_ExternalPhoto NRS-2" and "FYCR2209000377AT Appendix_InternalPhoto NRS-2".

- End of the Report -



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