

Report No.: SZEM210300219710

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RF Exposure Evaluation Report

Application No.: SZEM2103002197CR

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):

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

Model No.: NRS-2
Trade mark: NAVICO

FCC ID: RAYVHFNRS2A
Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310

Date of Receipt: 2021-03-01

Date of Test: 2021-03-03 to 2021-04-13

Date of Issue: 2021-04-14

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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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	Date Modifier						
01		2021-04-14		Original					

Authorized for issue by:			
	Bolisonti		
	Edison Li/Project Engineer		
	Exic Fu		
	Eric Fu/Reviewer	_	



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3 General Information

3.1 General Description of EUT

Power supply:	12 VDC battery system
Cable:	DC cable: longer than 300cm unshielded
Sample Type:	Mobile device
Classification:	Uncontrolled Environment
Transmitter Frequency Range:	VHF:156.025MHz-157.425MHz
	802.11b/g/n HT20: 2412MHz-2462MHz
AIS Transmitter Frequency Range:	AIS Class B:161.975MHz(CH87), 162.025MHz(CH88)
DSC Transmitter Frequency Range:	156.525MHz(CH70), Meets Global DSC Class D standards.
GNSS Receiver Frequency Range:	1559MHz-1610MHz(GLONASS:G1, GPS:L1)
Modulation Type:	VHF:FM for Analog;
	DSC:FSK;
	AIS:GMSK;
	GNSS: BPSK;
	802.11b: DSSS (CCK, DQPSK, DBPSK)
	802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)
	802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)
Frequency Spacing:	VHF: 25KHz
	802.11b/g/n HT20: 5MHz
Channel Numbers:	802.11b/g/n HT20: 11 Channels
Emission Type:	16K0G3E for VHF
	16K0G2B for DSC 9K05GXW for AIS
Rated Output Power:	25W/1W for VHF/DSC;
rialed Output i ower.	2W/rw lot viii/b36,
VHF/DSC Antenna Connectors:	SO-239(50 ohm, External Antenna)
AIS Antenna Connectors:	SO-239(50 ohm, External Antenna)
VHF/DSC Antenna Gain:	6dBi
AIS Antenna Gain:	6dBi
GNSS Antenna Connector:	SMA for External antenna
GNSS Antenna Gain:	1.5dBi
GNOO AIILEIIIIA GAIII:	1.SUDI



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WiFi Antenna Type:	Integral
WiFi Antenna Gain:	5.3dBi



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3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

3.3 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions

None

3.6 Other Information Requested by the Customer

None.



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: 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 part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposures									
0.3–3.0	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6					
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure						
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30					

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

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

For Uncontrolled Environment, the MPE limit of VHF is 0.2 mW/cm², the MPE limit of 802.11b/g/n is 1.0 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.

4.1.2 Test Procedure

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



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4.1.3 EUT RF Exposure Evaluation

The best case gain of the antenna is 6dBi. 6dB logarithmic terms convert to numeric result is nearly 3.98.

Test Frequency (MHz)	Maximun Antenna Gain (dBi)	Maximum Antenna Gain (Numeric)	Output Power (dBm)	Max Tune- up tolerance power (dBm)	Max Tune-up tolerance power*50% ^a (mW)	Power density (mW/cm²)	Minimum Distance to Human body (cm)
156.025	6	3.98	43.65	43.98	12501.73	0.20	140.72
156.025	6	3.98	29.23	30	500.00	0.20	28.14
156.300	6	3.98	43.79	43.98	12501.73	0.20	140.72
156.300	6	3.98	29.31	30	500.00	0.20	28.14
156.650	6	3.98	43.75	43.98	12501.73	0.20	140.72
156.650	6	3.98	29.79	30	500.00	0.20	28.14
156.800	6	3.98	43.86	43.98	12501.73	0.20	140.72
156.800	6	3.98	29.18	30	500.00	0.20	28.14
157.425	6	3.98	43.91	43.98	12501.73	0.20	140.72
157.425	6	3.98	29.07	30	500.00	0.20	28.14
156.525	6	3.98	43.84	43.98	12501.73	0.20	140.72
156.525	6	3.98	28.87	30	500.00	0.20	28.14

Note ^a: These channels may be operated as half-duplex frequency channels.

11010 11110	There I meet chamble may be operated as man adplex medicinely chambles									
Test Frequency (MHz)	Maximun Antenna Gain (dBi)	Maximum Antenna Gain (Numeric)	Output Power (dBm)	Max Tune- up tolerance power (dBm)	Max Tune-up tolerance power (mW)	Power density (mW/cm²)	Minimum Distance to Human body (cm)			
162.025	6	3.98	32.82	33.0	997.63	0.20	39.75			

For VHF Transmitter:

The maximum rated power of duplex is 25W, the low rated power of duplex is 1W which declared by manufacturer.

Then the maximum rated power of half-duplex is 12.5W, the low rated power of half-duplex is 0.5W. To satisfy RF exposure requirements, a separation distance of 140.72cm or more should be maintained between this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

The minimum distance between this device and persons during device operation is 210 cm which declared by manufacturer. Through the calculation, the maximum power density at 210cm is:

 $Pd = (Pout^*G)/(4^* Pi^* R^2) = (12501.73^*3.98)/(4^*3.1416^*210^*210) = 0.0898 \text{ mW/cm}^2$



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For AIS Transmitter:

The rated power is 2W, which declared by manufacturer

To satisfy RF exposure requirements, a separation distance of 40.0cm or more should be maintained between this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

The minimum distance between this device and persons during device operation is 210 cm which declared by manufacturer. Through the calculation, the maximum power density at 210cm is:

 $Pd = (Pout*G)/(4*Pi*R^2) = (997.63*3.98)/(4*3.1416*210*210) = 0.0072 \text{ mW/cm}^2$

For 802.11b/g/n HT20:

The best case gain of the antenna is 5.3dBi. 5.3dB logarithmic terms convert to numeric result is nearly 3.39. The max tune-up tolerance power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max tune-up tolerance power(dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R = 20cm (mW/cm²)	Limit (mW/cm ²)	MPE Ratio	Result
High	2462MHz	12	15.85	0.0107	1.0	0.0107	PASS

The simultaneous transmission result between of 2.4G WiFi, VHF and AIS:

The SAR Exclusion Threshold Level:

- =CPD1/LPD1 + CPD2/LPD2 + CPD3/LPD3 (CPD = Calculation power density, LPD = Limit of power density)
- = (0.0898/0.2) + (0.0072/0.2) + (0.0107/1) = 0.4957 < 1

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

- End of the Report -



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