

INC. MRA

Report No.: SZEM190101013205

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RF Exposure Evaluation Report

Application No.: SZEM1901010132CR

Applicant: Navico Inc.

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

Manufacturer: Navico Auckland Limited

Address of Manufacturer: Arrenway Drive, Rosedale, Auckland, 0632 New Zealand **Factory:** Shenzhen Hytera Communications Corportion Limited

Address of Factory:

Hytera Techology Park, Baolong Industrial City, Longgang District, Shenzhen,

China

Product Name: Marine VHF Radio

Model No.(EUT): V60-B, RS40-B ♣

Please refer to section 4.1 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: B&G, SIMRAD FCC ID: RAYVHFRS40B

Standards:47 CFR Part 1.1307 (2016)
47 CFR Part 1.1310 (2016)

Date of Receipt: 2019-01-07

Date of Test: 2019-03-11 to 2019-04-11

Date of Issue: 2019-04-17

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Keny. Ku



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



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2 Version

Revision Record							
Version	Chapter	Date	Modifier	Remark			
01		2019-04-17		Original			

Authorized for issue by:		
	Robernti	
	Edison Li /Project Engineer	-
	EvicFu	
	Eric Fu /Reviewer	-



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4 General Information

4.1 General Description of EUT

Power supply:	12 VDC battery system
Cable:	DC cable: longer than 300cm unshielded
Sample Type:	Mobile device
Internal Source:	More than 108MHz
Transmitter Frequency Range:	VHF:156.025MHz-157.425MHz
	802.11b/g/n HT20: 2412MHz-2462MHz
AIS Transmitter Frequency Range:	161.975MHz(CH87), 162.025MHz(CH88)
DSC Transmitter Frequency Range:	156.525MHz(CH70)
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;
Rated Output Power:	25W/1W for VHF/DSC;
	2W for AIS;
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
GPS Antenna Connector:	SMA for External antenna;
	Integral for Internal antenna
GPS Antenna Gain:	1.5dBi
WiFi Antenna Type:	Integral
WiFi Antenna Gain:	1.5dBi



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Remark:

Model No.: V60-B, RS40-B

Only the model V60-B was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only differences are the trade name and model no. for trading purpose.



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4.2 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.

4.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• 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.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6					
(B) Limits	for General Populati	on/Uncontrolled Exp	posure						
0.3–1.34	614 824/i 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: $Pd = (Pout*G)/(4*Pi*R^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

For Uncontrolled Environment, the limit of MPE is 0.2 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.

5.1.2 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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5.1.3 EUT RF Exposure Evaluation

1) Test Results

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	43.77	43.98	12501.73	0.20	140.72
156.025	6	3.98	28.96	30	500.00	0.20	28.14
156.300	6	3.98	43.9	43.98	12501.73	0.20	140.72
156.300	6	3.98	28.92	30	500.00	0.20	28.14
156.650	6	3.98	43.73	43.98	12501.73	0.20	140.72
156.650	6	3.98	28.66	30	500.00	0.20	28.14
156.800	6	3.98	43.62	43.98	12501.73	0.20	140.72
156.800	6	3.98	28.55	30	500.00	0.20	28.14
157.425	6	3.98	43.79	43.98	12501.73	0.20	140.72
157.425	6	3.98	28.68	30	500.00	0.20	28.14
156.525	6	3.98	43.51	43.98	12501.73	0.20	140.72
156.525	6	3.98	28.47	30	500.00	0.20	28.14
162.025	6	3.98	32.5	34.5	1409.19	0.20	47.25

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

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:

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

For AIS Transmitter:

The rated power is 2W, which declared by manufacturer. Then the rated power of half-duplex is 1W. To satisfy RF exposure requirements, a separation distance of 47.25cm 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:

 $Pd = (Pout*G)/(4*Pi*R^2) = (1409.19*3.98)/(4*3.1416*210*210) = 0.0101 \text{ mW/cm}^2$



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For 802.11b/g/n HT20:

The best case gain of the antenna is 1.5dBi. 1.5dB logarithmic terms convert to numeric result is nearly 1.41. 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 = 20 cm (mW/cm²)	Limit	MPE Ratio	Result
Middle	2437MHz	15.5	35.48	0.0100	1.0	0.0100	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) + (0.0101/0.2) + (0.0100/1) = 0.5095 < 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.

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