

RF EXPOSURE Test Report

Report No. : MTi251111019-0206E2
Date of issue : 2025-12-02
Applicant : AQUA-AMP, LLC
Product : SeaSocket
Model(s) : B0100-1
FCC ID : 2A64N-B0100-1

Shenzhen Microtest Co., Ltd.

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Test Result Certification		
Applicant	AQUA-AMP, LLC	
Applicant Address	1108 ELDRIDGE ST, CLEARWATER, FL 33755, United States	
Manufacturer	AQUA-AMP, LLC	
Manufacturer Address	1108 ELDRIDGE ST, CLEARWATER, FL 33755, United States	
Product description		
Product name	SeaSocket	
Trademark	Aqua-Amp	
Model name	B0100-1	
Series Model(s)	N/A	
Standards	47 CFR Part 2.1091	
Test method	KDB 447498 D01 v06	
Testing Information		
Date of test	2025-11-24 to 2025-12-02	
Test Result	Pass	
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Approved by:	Lewis Lian	<i>Lewis Lian</i>

1 RF EXPOSURE EVALUATION

According to FCC 1.1310: 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 §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 Exposure				
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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

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 = Numeric gain of the antenna relative to isotropic antenna

π = 3.1415926

R = distance between observation point and center of the radiator in cm(20cm)

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

2 Measurement Result

NFC

Operation Frequency: 13.56MHz,

Field intensity limited: $824/f(13.56\text{MHz}) = 60.77 \text{ V/m}$

Antenna Type: Coil Antenna

 $d_{\mu\text{V/m}} = 20 \cdot \log(\text{V/m}) + 120$

NFC:

Transmit Frequency (MHz)	Mode	H-field Level@3m (dB $\mu\text{V/m}$)	H-field Level@3m (V/m)	Field intensity limited
				V/m)
13.56	ASK	45.94	0.000198	60.77

Conclusion:For the max result: $0.000198 \text{ V/m} \leq 60.77 \text{ V/m}$ test exclusion threshold, No SAR is required.

Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
5. The observations or tests with special mark fall outside the scope of accreditation, and are only used for purpose of commission, research, training, internal quality control etc.
6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****