

TEST REPORT

Product Name : Marine Source Unit

Brand Mark : N/A

Model No. : PRV175

Extension model: PRV18, PRV90, PRV250A

FCC ID : 2A2K9-PRV-175

Report Number : BLA-EMC-202204-A9704

Date of Sample Receipt : 2022/4/29

Date of Test : 2022/4/29 to 2022/5/30

Date of Issue : 2022/5/30

Test Standard 47 CFR Part 1.1307, Part 2.1093, KDB

Test Result : Pass

Jose Bhe Zhong

Prepared for:

PROSPEC ELECTRONICS of SC, Inc 3325 SOUTH MORGANS POINT ROAD. MT. PLEASANT. SC29466-6856 USA

Prepared by:

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Review by:

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REPORT REVISE RECORD

Version No.	Date	Description
00	2022/5/30	Original



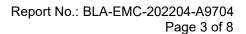




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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass





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2 GENERAL INFORMATION

Applicant	PROSPEC ELECTRONICS of SC, Inc			
Address	3325 SOUTH MORGANS POINT ROAD. MT. PLEASANT. SC29466-6856 USA			
Manufacturer	PROSPEC ELECTRONICS of SC, Inc			
Address	3325 SOUTH MORGANS POINT ROAD. MT. PLEASANT. SC29466-6856 USA			
Factory	Audio Link Co.,Ltd.			
Address Left Side of Floor 4,Building B,No.2,Lilian Road,Lianhu Communit Town,Dongguan City,Guangdong Province,523719,China.				
Product Name	Marine Source Unit			
Test Model No.	PRV175			

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V1.4	
Software Version	V175-0-014	

BR+EDR

Operation Frequency:	2402MHz-2480MHz	
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK	
Channel Spacing:	1MHz	
Number of Channels: 79		
Antenna Type:	PCB Antenna	
Antenna Gain: 0 dBi(Provided by the applicant)		

BLE

Operation Frequency:	2402MHz-2480MHz	
Modulation Type:	GFSK	
Channel Spacing:	2MHz	
Number of Channels: 40		
Antenna Type:	PCB Antenna	
Antenna Gain:	0dBi(Provided by the applicant)	



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LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

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No tests were sub-contracted.



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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 LIMITS

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.3 EUT RF EXPOSURE

Operational Mode: EDR (pi/4DQPSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune (dBm)	-up Power (mW)	Calculated value	Exclusion threshold
2402MHz	1.158	±1	2.158	1.64	0.51	
2441MHz	-1.672	±1	-0.672	0.86	0.27	3.0
2480MHz	-3.577	±1	-2.577	0.55	0.17	
Operational Mode: BLE						
2402	0.395	±1	1.395	1.38	0.43	
2442	-1.93	±1	-0.93	0.81	0.25	3.0
2480	-3.64	±1	-2.64	0.54	0.17	
Conclusion: the calculated value ≤3.0, SAR is exempted.						



----END OF REPORT----

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