

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
447498
Test Result : Pass

Prepared for:

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

Prepared by:

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2022/5/30



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

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 Community,Tangxia 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)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,
China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

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:

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

$f(\text{GHz})$ 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 ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 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-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402MHz	1.158	±1	2.158	1.64	0.51	3.0
2441MHz	-1.672	±1	-0.672	0.86	0.27	
2480MHz	-3.577	±1	-2.577	0.55	0.17	
						3.0
Operational Mode: BLE						
2402	0.395	±1	1.395	1.38	0.43	
2442	-1.93	±1	-0.93	0.81	0.25	
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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