



# SEA WATER NITRATE CALIBRATION REPORT

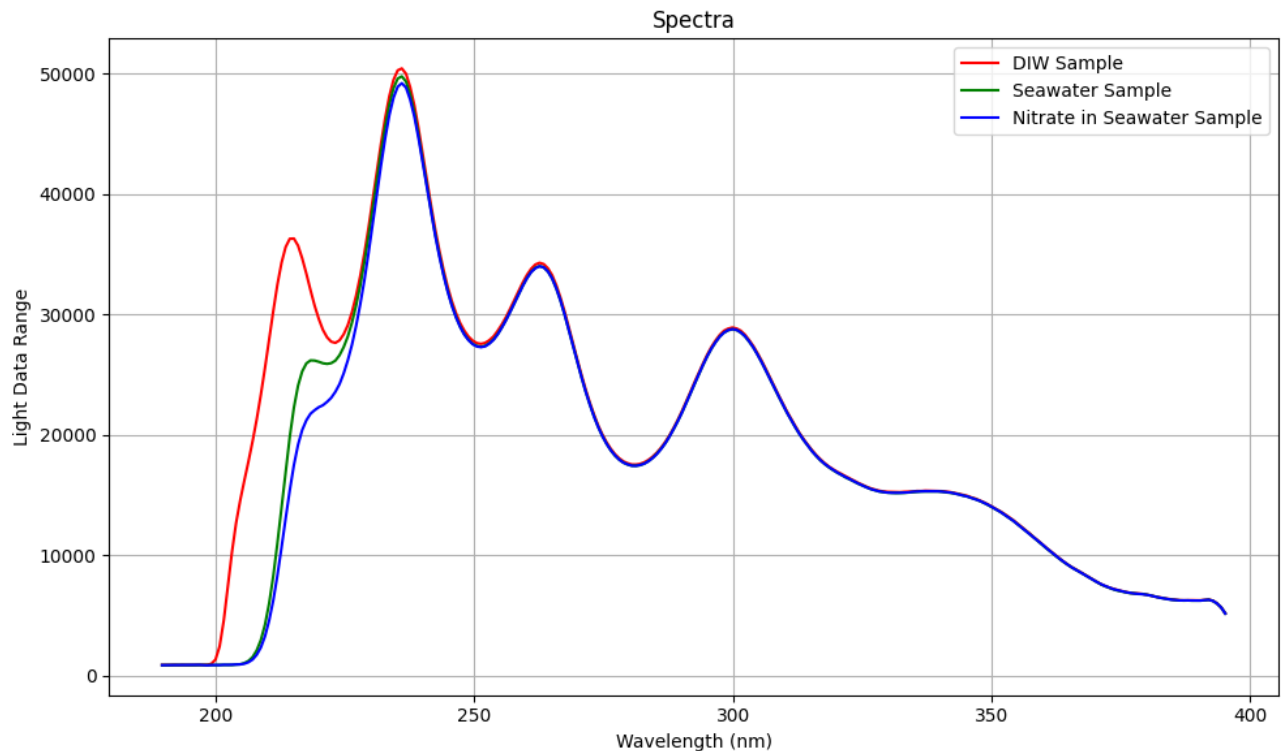
SUNA V2:	2093	Cal sheet Creation Date:	February 04, 2026
Cal Revision:	H	Cal Date:	February 04, 2026
Cal Temperature:	20.000 deg C	Software:	1.9.21
Optical Path Length:	5 mm	Operator:	ssmith
Integration Period:	200 ms	Project:	2026-2093
Comment:			

## Standard Makeup

Seawater Volume:	99.0 ml	Nitrate Volume:	1.0 ml
Seawater Salinity:	35.042 psu	Nitrate Primary:	4000.0 uM

## Calibration Files

Thermistor xml file:	Manually Entered.	LNSW data File:	SUNA2093_LNW_01.raw
Nitrate xml file:	SUNA_2093_001.xml	NO3 data File:	SUNA2093_HNW_01.raw
DIW data File:	SUNA2093_DIW_01.raw	Output cal file:	SNA2093H.cal



## Calibration Parameters

TARGET_CAL_TEMP:	20.00	NO3_RATIO_WLEN_PC:	0.93
SW_TARGET_CAL_RANGE:	0.10	NO3_RATIO_WLEN_RG:	0.07
NO3_GENERIC_EXT_L0:	206.44	NO3_RATIO_WLEN_C:	230.00
NO3_GENERIC_EXT_SG:	15.261000	NO3_RATIO_WLEN_W:	3.00
NO3_GENERIC_EXT_E0:	0.007590	MIN_NO3_WAVELENGTH:	217.00
SW_GENERIC_EXT_L0:	6399.328478637510	MAX_NO3_WAVELENGTH:	230.00
SW_GENERIC_EXT_L1:	1494.825217831780	SW_RATIO_WLEN_PC:	0.90
SW_GENERIC_EXT_L2:	-36.140466496430	SW_RATIO_WLEN_RG:	0.10
SW_GENERIC_EXT_L3:	3.3586818401274E-1	SW_RATIO_WLEN_C:	230.00
SW_GENERIC_EXT_L4:	-1.54453126382017E-3	SW_RATIO_WLEN_W:	3.00
SW_GENERIC_EXT_L5:	3.53433026432857E-6	MIN_LNSW_WAVELENGTH:	217.00
SW_GENERIC_EXT_L6:	-3.22543241438559E-9	MAX_LNSW_WAVELENGTH:	230.00

## Analog output

0uMol (LNSW) mA:	4.46	0uMol (LNSW) V:	0.3888
0uMol (Pure Water) mA:	4.422	0uMol (Pure Water) V:	0.20680000000000007
5uMol mA:	5.466000000000001	5uMol V:	0.5722000000000003
10uMol mA:	6.352	10uMol V:	0.7733000000000002
20uMol mA:	7.721999999999999	20uMol V:	1.123
40uMol mA:	10.82	40uMol V:	1.8879999999999997

