



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 2323
CALIBRATION DATE: 14-Apr-23

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.772311e-001
h = 1.486221e-001
i = -1.226579e-004
j = 3.701101e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 6.7914e-006

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2564.65	0.00000	0.00000
1.0000	34.6589	2.96379	5143.44	2.96380	0.00001
4.4999	34.6399	3.26971	5338.36	3.26970	-0.00001
15.0000	34.5994	4.24781	5917.77	4.24782	0.00001
18.5000	34.5910	4.59169	6108.10	4.59169	-0.00001
24.0000	34.5818	5.14759	6403.49	5.14759	0.00001
29.0000	34.5765	5.66745	6667.51	5.66744	-0.00000
32.5000	34.5727	6.03830	6849.48	6.03839	0.00010

$f = \text{Instrument Output(Hz)} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

