



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

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

SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 10-Nov-23

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

COEFFICIENTS:

g = -1.039513e+000
h = 1.534599e-001
i = -7.568115e-004
j = 8.102839e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.8251e-005

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	2615.64	0.00000	0.00000
0.9999	34.2292	2.93051	5115.58	2.93046	-0.00005
4.4999	34.2097	3.23306	5307.00	3.23314	0.00007
14.9999	34.1680	4.20039	5876.37	4.20034	-0.00006
18.5000	34.1589	4.54046	6063.65	4.54049	0.00002
24.0000	34.1483	5.09012	6354.31	5.09013	0.00001
29.0000	34.1388	5.60369	6614.01	5.60369	-0.00000
32.5001	34.1277	5.96934	6793.05	5.97016	0.00082

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

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

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

