



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

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

SENSOR SERIAL NUMBER: 0813
CALIBRATION DATE: 28-Aug-24

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

COEFFICIENTS:

g = -1.038758e+000
h = 1.511667e-001
i = -6.078535e-004
j = 7.014519e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.1758e-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	2633.16	0.00000	0.00000
1.0000	34.6096	2.95997	5165.12	2.96000	0.00003
4.5000	34.5893	3.26541	5358.97	3.26539	-0.00002
15.0000	34.5470	4.24206	5936.12	4.24201	-0.00005
18.4999	34.5384	4.58545	6125.99	4.58544	-0.00001
24.0000	34.5290	5.14059	6420.88	5.14068	0.00009
29.0000	34.5247	5.65991	6684.61	5.65986	-0.00004
32.5002	34.5229	6.03061	6853.56	6.00359	-0.02702

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

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

