

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0155
CALIBRATION DATE: 14-Feb-17

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.033380e+000
h = 1.302982e-001
i = -1.568495e-004
j = 2.861213e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.7445e-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	2818.45	0.00000	0.00000
1.0000	34.6748	2.96502	5539.36	2.96503	0.00001
4.4999	34.6554	3.27103	5746.66	3.27102	-0.00001
15.0000	34.6139	4.24940	6363.52	4.24939	-0.00001
18.5000	34.6049	4.59334	6566.33	4.59334	-0.00000
24.0000	34.5949	5.14932	6881.24	5.14934	0.00002
29.0000	34.5892	5.66929	7162.88	5.66930	0.00000
32.5000	34.5852	6.04023	7357.01	6.04023	-0.00001

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

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

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

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

