

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2355

CALIBRATION DATE: 30-Sep-16

SBE 37 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.034342e+000

h = 1.536331e-001

i = -1.647947e-004

j = 3.988197e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = 7.7050e-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	2595.84	0.00000	0.00000
1.0000	34.8769	2.98065	5108.78	2.98065	-0.00000
4.5000	34.8565	3.28814	5299.94	3.28814	0.00000
15.0000	34.8141	4.27137	5868.66	4.27137	0.00000
18.5000	34.8053	4.61707	6055.64	4.61707	-0.00000
24.0000	34.7959	5.17593	6345.94	5.17593	0.00000
29.0000	34.7913	5.69868	6605.59	5.69868	-0.00001
32.5000	34.7892	6.07180	6784.65	6.07180	0.00000

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

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

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

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

