Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1852
CALIBRATION DATE: 06-Feb-14

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

COEFFICIENTS:

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g = -1.054409e+000
h =  1.504071e-001
i = -2.045321e-004
j =  4.148214e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  1.0378e-006
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2649.89	0.00000	0.00000
1.0000	34.6850	2.96581	5169.10	2.96578	-0.00003
4.5000	34.6651	3.27186	5361.52	3.27190	0.00004
15.0000	34.6223	4.25033	5933.98	4.25032	-0.00001
18.5000	34.6129	4.59429	6122.23	4.59428	-0.00000
24.0000	34.6024	5.15031	6414.55	5.15031	-0.00000
29.0000	34.5961	5.67030	6676.00	5.67030	0.00000
32.5000	34.5917	6.04124	6856.22	6.04124	-0.00000

f = INST FREQ * sqrt(1.0 + WBOTC * t) / 1000.0

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \varepsilon p)$ Siemens/meter

t = temperature[°C)]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

Residual = instrument conductivity - bath conductivity