Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1678
CALIBRATION DATE: 08-Feb-14

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

COEFFICIENTS:

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g = -9.838852e-001
h =  1.371671e-001
i = -1.735777e-004
j =  3.678185e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  4.8508e-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	2680.05	0.00000	0.00000
1.0000	34.8344	2.97736	5371.40	2.97737	0.00001
4.5000	34.8146	3.28458	5574.82	3.28457	-0.00001
15.0000	34.7728	4.26684	6179.48	4.26683	-0.00002
18.5000	34.7640	4.61218	6378.11	4.61218	0.00000
24.0000	34.7546	5.17046	6686.37	5.17047	0.00001
29.0000	34.7495	5.69261	6961.92	5.69261	0.00001
32.5000	34.7463	6.06516	7151.78	6.06515	-0.00001

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