Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0041
CALIBRATION DATE: 06-Feb-14

SBE 49 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

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g = -1.008173e+000
h =  1.381128e-001
i = -1.454742e-004
j =  3.181864e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-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	2703.36	0.0000	0.00000
1.0000	34.6702	2.96466	5360.72	2.9647	0.00001
4.5000	34.6506	3.27063	5562.51	3.2706	-0.00001
15.0000	34.6087	4.24883	6162.69	4.2488	-0.00001
18.5000	34.5998	4.59274	6359.97	4.5927	-0.00000
24.0000	34.5896	5.14862	6666.19	5.1486	0.00002
29.0000	34.5834	5.66845	6939.98	5.6684	-0.00000
32.5001	34.5791	6.03930	7128.68	6.0393	-0.00001

f = INST FREQ / 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