Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0204
CALIBRATION DATE: 18-Sep-12

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

COEFFICIENTS:

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g = -1.033035e+000
h =  1.579339e-001
i = -1.180673e-004
j =  3.383925e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.5040e-005
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2557.47	0.00000	0.00000
1.0000	34.8890	2.98159	5037.52	2.98159	0.00000
4.5000	34.8689	3.28920	5226.03	3.28920	0.00000
15.0000	34.8262	4.27270	5786.87	4.27269	-0.00001
18.5000	34.8171	4.61846	5971.25	4.61846	-0.00000
24.0000	34.8072	5.17742	6257.53	5.17743	0.00001
29.0000	34.8020	5.70024	6513.58	5.70024	0.00000
32.5000	34.7992	6.07335	6690.12	6.07334	-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