Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0204
CALIBRATION DATE: 24-Mar-16

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

COEFFICIENTS:

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g = -1.045969e+000
h =  1.602145e-001
i = -6.670238e-004
j =  7.028045e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  2.5040e-005
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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	2564.41	0.00000	0.00000
1.0000	34.6128	2.96022	5025.24	2.96019	-0.00003
4.5000	34.5938	3.26579	5213.03	3.26582	0.00003
15.0000	34.5531	4.24273	5771.73	4.24276	0.00003
18.5001	34.5446	4.58621	5955.41	4.58620	-0.00001
24.0000	34.5356	5.14147	6240.60	5.14142	-0.00005
29.0000	34.5310	5.66082	6495.72	5.66085	0.00003
32.5000	34.5286	6.03147	6671.60	6.03153	0.00006

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

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

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