Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 04-Mar-15

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

COEFFICIENTS:

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g = -1.015211e+000
h =  1.402810e-001
i = -7.119975e-005
j =  2.900915e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  9.2934e-007
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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	2689.96	0.00000	0.00000
1.0000	34.6669	2.96441	5317.89	2.96442	0.00001
4.5000	34.6471	3.27033	5517.56	3.27032	-0.00001
15.0000	34.6042	4.24834	6111.44	4.24833	-0.00001
18.5000	34.5950	4.59217	6306.66	4.59217	0.00000
24.0000	34.5849	5.14800	6609.73	5.14801	0.00001
29.0000	34.5794	5.66787	6880.77	5.66786	-0.00001
32.5000	34.5768	6.03893	7067.64	6.03887	-0.00006

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

Conductiv ity = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \varepsilon * p)$ Siemens / meter

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

Residual = instrument conductivity - bath conductivity