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SENSOR SERIAL NUMBER: 0823
CALIBRATION DATE: 08-Sep-21

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

COEFFICIENTS:

g = -1.031447e+000
h = 1.554476e-001
i = -2.041708e-004
j = 4.454293e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7202e-005

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	2578.60	0.00000	0.00000
1.0000	34.6690	2.96457	5068.47	2.96460	0.00003
4.4999	34.6496	3.27053	5258.34	3.27049	-0.00004
15.0000	34.6075	4.24870	5823.44	4.24869	-0.00001
18.4999	34.5988	4.59261	6009.28	4.59265	0.00004
23.9999	34.5905	5.14873	6297.87	5.14870	-0.00002
29.0000	34.5852	5.66871	6555.98	5.66872	0.00000
32.5001	34.5800	6.03944	6733.85	6.03958	0.00014

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

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

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

