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SENSOR SERIAL NUMBER: 0819
CALIBRATION DATE: 10-Sep-21

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

COEFFICIENTS:

g = -1.093877e+000
h = 1.554331e-001
i = -2.910826e-004
j = 4.707263e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.4742e-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	2658.81	0.00000	0.00000
1.0000	34.6521	2.96326	5113.48	2.96329	0.00002
4.5000	34.6336	3.26918	5302.80	3.26915	-0.00003
15.0000	34.5927	4.24708	5866.96	4.24708	0.00000
18.5000	34.5838	4.59084	6052.68	4.59085	0.00000
24.0000	34.5736	5.14650	6341.24	5.14650	0.00000
29.0000	34.5670	5.66606	6599.50	5.66607	0.00000
32.5000	34.5618	6.03661	6777.58	6.03661	-0.00000

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

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

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

$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$

