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SENSOR SERIAL NUMBER: 0819
CALIBRATION DATE: 19-Nov-23

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

COEFFICIENTS:

g = -1.098998e+000
h = 1.570125e-001
i = -6.859869e-004
j = 7.719167e-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	2658.66	0.00000	0.00000
1.0000	35.0900	2.99712	5132.19	2.99712	0.00000
4.4999	35.0688	3.30618	5322.61	3.30617	-0.00000
14.9999	35.0245	4.29443	5889.93	4.29441	-0.00002
18.5000	35.0144	4.64180	6076.65	4.64185	0.00005
24.0000	35.0028	5.20329	6366.58	5.20324	-0.00005
29.0000	34.9943	5.72818	6625.99	5.72819	0.00002
32.5000	34.9875	6.10245	6804.91	6.10279	0.00033

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

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

