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SENSOR SERIAL NUMBER: 0819
CALIBRATION DATE: 01-Dec-23

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

COEFFICIENTS:

g = -1.093996e+000
h = 1.559191e-001
i = -5.165777e-004
j = 6.363151e-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	2658.92	0.00000	0.00000
1.0000	34.6936	2.96647	5119.41	2.96647	-0.00000
4.5000	34.6738	3.27260	5309.13	3.27260	0.00000
15.0000	34.6317	4.25136	5874.39	4.25136	-0.00000
18.5000	34.6230	4.59549	6060.48	4.59548	-0.00000
23.9999	34.6132	5.15173	6349.59	5.15174	0.00000
28.9999	34.6059	5.67171	6608.22	5.67171	-0.00000
32.4999	34.5963	6.04194	6786.25	6.04194	0.00000

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

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

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

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

