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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 12-Sep-24

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

COEFFICIENTS:

g = -1.012826e+000
h = 1.504563e-001
i = -1.878389e-004
j = 3.870310e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.9558e-006

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	2596.25	0.00000	0.00000
1.0000	34.6114	2.96011	5137.69	2.96012	0.00001
4.4999	34.5904	3.26549	5330.68	3.26548	-0.00001
14.9999	34.5465	4.24199	5904.83	4.24201	0.00002
18.4999	34.5374	4.58534	6093.55	4.58533	-0.00000
24.0000	34.5275	5.14039	6386.55	5.14038	-0.00002
29.0000	34.5227	5.65962	6648.63	5.65962	0.00001
32.5001	34.5201	6.03016	6829.39	6.03033	0.00017

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

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

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

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

