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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 22-Sep-22

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

COEFFICIENTS:

g = -1.013344e+000
h = 1.503768e-001
i = -1.234917e-004
j = 3.692719e-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	2596.26	0.00000	0.00000
1.0000	34.6741	2.96497	5137.68	2.96497	0.00001
4.5000	34.6552	3.27102	5330.67	3.27101	-0.00001
15.0000	34.6142	4.24944	5904.62	4.24944	0.00001
18.5000	34.6056	4.59342	6093.24	4.59341	-0.00001
24.0000	34.5957	5.14943	6386.04	5.14943	0.00001
29.0000	34.5891	5.66928	6647.77	5.66928	0.00000
32.5000	34.5825	6.03981	6827.98	6.03981	-0.00000

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

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

