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SENSOR SERIAL NUMBER: 0417
CALIBRATION DATE: 11-Sep-24

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

COEFFICIENTS:

g = -1.056310e+000
h = 1.449363e-001
i = -4.578814e-004
j = 5.569873e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.1987e-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	2709.57	0.00000	0.00000
0.9999	34.6404	2.96235	5281.62	2.96234	-0.00001
4.5000	34.6192	3.26796	5478.96	3.26796	0.00001
15.0000	34.5751	4.24514	6066.61	4.24514	-0.00001
18.5000	34.5657	4.58870	6259.97	4.58871	0.00001
24.0000	34.5558	5.14414	6560.33	5.14414	-0.00000
29.0001	34.5505	5.66367	6829.11	5.66367	-0.00001
32.5000	34.5476	6.03441	7014.49	6.03442	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

