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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 19-Nov-23

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

COEFFICIENTS:

g = -9.674855e-001
h = 1.384861e-001
i = -3.895845e-004
j = 4.912694e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.4403e-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	2652.18	0.00000	0.00000
1.0000	35.0900	2.99712	5363.87	2.99711	-0.00001
4.4999	35.0688	3.30618	5569.26	3.30618	0.00000
14.9999	35.0245	4.29443	6180.02	4.29446	0.00003
18.5000	35.0144	4.64180	6380.65	4.64178	-0.00002
24.0000	35.0028	5.20329	6692.12	5.20330	0.00001
29.0000	34.9943	5.72818	6970.47	5.72814	-0.00004
32.5000	34.9875	6.10245	7162.27	6.10248	0.00002

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

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

