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SENSOR SERIAL NUMBER: 0475
CALIBRATION DATE: 01-Dec-23

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

COEFFICIENTS:

g = -1.040242e+000
h = 1.406869e-001
i = -2.819769e-004
j = 4.250714e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.3216e-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	2726.08	0.00000	0.00000
1.0000	34.5710	2.95699	5336.13	2.95699	0.00000
4.5000	34.5517	3.26221	5536.23	3.26221	-0.00000
15.0000	34.5101	4.23801	6131.98	4.23800	-0.00001
18.5000	34.5011	4.58104	6327.98	4.58104	-0.00000
24.0000	34.4911	5.13557	6632.42	5.13557	0.00000
29.0000	34.4845	5.65406	6904.77	5.65407	0.00001
32.5000	34.4790	6.02379	7092.48	6.02378	-0.00001

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

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

