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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 06-May-21

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

COEFFICIENTS:

g = -1.016051e+000
h = 1.404192e-001
i = -8.588711e-005
j = 3.069525e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 9.2934e-007

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	2690.01	0.00000	0.00000
0.9998	34.7227	2.96871	5319.29	2.96873	0.00002
4.4999	34.7028	3.27506	5519.01	3.27505	-0.00001
14.9999	34.6608	4.25454	6113.10	4.25453	-0.00001
18.5000	34.6523	4.59896	6308.41	4.59895	-0.00001
23.9999	34.6432	5.15571	6611.61	5.15573	0.00002
28.9999	34.6382	5.67641	6882.74	5.67642	0.00001
32.5000	34.6354	6.04800	7069.64	6.04799	-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

