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SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 29-Aug-24

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

COEFFICIENTS:

g = -1.095862e+000
h = 1.469219e-001
i = -1.310505e-003
j = 6.081934e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.3041e-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	2761.08	0.00000	0.00000
0.9999	34.6031	2.95946	5350.40	2.95911	-0.00035
4.5000	34.5823	3.26481	5551.35	3.26529	0.00048
15.0000	34.5397	4.24126	6149.30	4.24136	0.00010
18.4999	34.5309	4.58457	6346.19	4.58407	-0.00050
24.0000	34.5217	5.13962	6653.43	5.13996	0.00034
29.0000	34.5170	5.65879	6928.08	5.65871	-0.00007
32.5001	34.5145	6.02930	7116.50	6.02652	-0.00277

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

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$

