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SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 11-Dec-20

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

COEFFICIENTS:

g = -1.009716e+000
h = 1.378663e-001
i = -2.217088e-004
j = 3.890892e-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	2709.55	0.00000	0.00000
1.0000	34.6303	2.96158	5368.44	2.96160	0.00002
4.5000	34.6109	3.26725	5570.45	3.26723	-0.00002
15.0000	34.5698	4.24456	6171.30	4.24454	-0.00002
18.5000	34.5615	4.58820	6368.82	4.58822	0.00001
24.0000	34.5529	5.14376	6675.43	5.14376	0.00001
29.0000	34.5487	5.66340	6949.61	5.66341	0.00001
32.5000	34.5462	6.03419	7138.59	6.03418	-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

