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SENSOR SERIAL NUMBER: 0409
CALIBRATION DATE: 20-Nov-20

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

COEFFICIENTS:

g = -9.910816e-001
h = 1.383216e-001
i = -3.761439e-004
j = 5.050064e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.7926e-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	2685.33	0.00000	0.00000
1.0000	34.6035	2.95950	5355.42	2.95950	-0.00000
4.5000	34.5838	3.26494	5558.66	3.26494	-0.00000
15.0000	34.5420	4.24151	6163.20	4.24151	0.00000
18.5000	34.5333	4.58486	6361.93	4.58487	0.00001
24.0000	34.5243	5.13997	6670.49	5.13997	-0.00000
29.0000	34.5198	5.65919	6946.46	5.65918	-0.00002
32.5000	34.5171	6.02969	7136.73	6.02970	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

