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SENSOR SERIAL NUMBER: 1245
CALIBRATION DATE: 09-Sep-21

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

COEFFICIENTS:

g = -1.055606e+000
h = 1.624235e-001
i = 7.601336e-005
j = 2.628168e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -3.0022e-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	2547.32	0.00000	0.00000
1.0000	34.6089	2.95992	4956.69	2.95993	0.00001
4.4999	34.5898	3.26544	5141.09	3.26543	-0.00001
15.0000	34.5485	4.24222	5690.13	4.24222	-0.00000
18.5000	34.5395	4.58559	5870.75	4.58560	0.00001
24.0000	34.5290	5.14059	6151.26	5.14059	-0.00000
29.0001	34.5220	5.65953	6402.21	5.65952	-0.00000
32.5000	34.5162	6.02955	6575.22	6.02965	0.00010

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

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

