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SENSOR SERIAL NUMBER: 0454
CALIBRATION DATE: 25-Feb-25

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.855462e-001
h = 1.319857e-001
i = -3.336737e-004
j = 4.190008e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 2.4343e-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	2738.75	0.00000	0.00000
1.0000	34.6994	2.96692	5484.18	2.96695	0.00002
4.5000	34.6799	3.27312	5692.01	3.27310	-0.00002
15.0000	34.6372	4.25196	6309.85	4.25194	-0.00002
18.5000	34.6276	4.59603	6512.81	4.59604	0.00001
24.0000	34.6161	5.15213	6827.73	5.15216	0.00004
29.0000	34.6087	5.67213	7109.16	5.67211	-0.00002
32.5000	34.6018	6.04280	7302.78	6.04246	-0.00034

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

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

