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SENSOR SERIAL NUMBER: 0286
 CALIBRATION DATE: 13-Feb-24

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

COEFFICIENTS:

g = -1.016782e+000 CPcor = -9.5700e-008
 h = 1.599224e-001 CTcor = 3.2500e-006
 i = -3.148678e-004 WBOTC = 2.6402e-007
 j = 5.072588e-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 | 2525.22 | 0.00000 | 0.00000 |
| 1.0000 | 34.9005 | 2.98247 | 5005.53 | 2.98248 | 0.00000 |
| 4.5000 | 34.8800 | 3.29014 | 5193.90 | 3.29014 | 0.00000 |
| 15.0000 | 34.8367 | 4.27385 | 5754.21 | 4.27384 | -0.00001 |
| 18.5000 | 34.8275 | 4.61969 | 5938.39 | 4.61969 | -0.00000 |
| 24.0000 | 34.8177 | 5.17881 | 6224.33 | 5.17883 | 0.00002 |
| 29.0000 | 34.8118 | 5.70166 | 6479.98 | 5.70166 | -0.00001 |
| 32.5000 | 34.8077 | 6.07466 | 6656.17 | 6.07466 | -0.00000 |

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

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

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

Residual (Siemens/meter) = instrument conductivity - bath conductivity

