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SENSOR SERIAL NUMBER: 1527  
CALIBRATION DATE: 27-Dec-24

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

#### COEFFICIENTS:

g = -1.023386e+000  
h = 1.555618e-001  
i = 1.961294e-004  
j = 1.198932e-005

CPcor = -9.5700e-008  
CTcor = 3.2500e-006  
WBOTC = 1.6276e-006

| BATH TEMP<br>(° C) | BATH SAL<br>(PSU) | BATH COND<br>(S/m) | INSTRUMENT<br>OUTPUT (Hz) | INSTRUMENT<br>COND (S/m) | RESIDUAL<br>(S/m) |
|--------------------|-------------------|--------------------|---------------------------|--------------------------|-------------------|
| 22.0000            | 0.0000            | 0.00000            | 2560.07                   | 0.00000                  | 0.00000           |
| 1.0000             | 34.6654           | 2.96429            | 5042.09                   | 2.96430                  | 0.00001           |
| 4.5000             | 34.6447           | 3.27013            | 5230.88                   | 3.27015                  | 0.00002           |
| 15.0000            | 34.5990           | 4.24777            | 5792.49                   | 4.24771                  | -0.00006          |
| 18.5000            | 34.5887           | 4.59142            | 5977.17                   | 4.59139                  | -0.00003          |
| 24.0000            | 34.5765           | 5.14688            | 6263.97                   | 5.14695                  | 0.00007           |
| 29.0000            | 34.5688           | 5.66633            | 6520.46                   | 5.66637                  | 0.00005           |
| 32.5000            | 34.5620           | 6.03664            | 6697.14                   | 6.03659                  | -0.00005          |

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

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

