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SENSOR SERIAL NUMBER: 4955 CALIBRATION DATE: 08-Dec-22 SBE 19plus TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.232836e-003 a1 = 2.607175e-004 a2 = 2.297484e-007 a3 = 1.419634e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	660496.508	1.0001	0.0001
4.5000	588724.542	4.4998	-0.0002
15.0000	408786.797	15.0002	0.0002
18.5000	360024.967	18.5000	0.0000
24.0000	293507.847	23.9998	-0.0002
29.0000	242618.186	29.0000	0.0000
32.5001	211771.867	32.5001	0.0000

n = Instrument Output (counts)

MV = (n - 524288) / 1.6e + 007

R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(R)] + a2[ln^2(R)] + a3[ln^3(R)]} - 273.15$

Residual ($^{\circ}$ C) = instrument temperature - bath temperature

