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SENSOR SERIAL NUMBER: 6244
 CALIBRATION DATE: 15-Jun-21

SBE 19plus V2 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.312889e-003
 a1 = 2.525091e-004
 a2 = 6.489778e-007
 a3 = 1.128808e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	627452.089	1.0001	0.0001
4.5000	555836.267	4.4999	-0.0001
15.0000	378594.800	15.0000	-0.0000
18.5000	331206.089	18.5002	0.0002
24.0000	267086.867	23.9999	-0.0001
29.0000	218478.533	28.9998	-0.0002
32.5000	189217.311	32.5002	0.0002

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) = $1 / \{a_0 + a_1[\ln(R)] + a_2[\ln^2(R)] + a_3[\ln^3(R)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

