Sea-Bird Scientific 13431 NE 20<sup>th</sup> Street Bellevue, WA 98005 USA +1 425-643-9866 seabird@seabird.com www.seabird.com

SENSOR SERIAL NUMBER: 2026 CALIBRATION DATE: 06-May-21

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = 3.354950e-005 a1 = 2.671052e-004 a2 = -1.931337e-006 a3 = 1.451051e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
0.9998	737256.3	0.9997	-0.0001
4.4999	630421.4	4.5002	0.0003
14.9999	401848.3	14.9998	-0.0001
18.5000	347954.5	18.4998	-0.0002
23.9999	279116.3	24.0000	0.0001
28.9999	229798.8	29.0001	0.0002
32.5000	201216.6	32.4998	-0.0002

n = Instrument Output (counts)

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

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

