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: 3770 CALIBRATION DATE: 25-May-21

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

## **COEFFICIENTS:**

32.5001

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
( C)	(F30)	(3/111)	001701 (112)	COND (3/III)	(3/111)
22.0000	0.0000	0.00000	2532.90	0.00000	0.00000
0.9998	34.6087	2.95989	4970.98	2.95989	0.00000
4.5000	34.5892	3.26540	5156.87	3.26540	0.00000
15.0000	34.5495	4.24233	5710.11	4.24230	-0.00003
18.5000	34.5411	4.58578	5892.08	4.58583	0.00005
23.9999	34.5320	5.14098	6174.54	5.14096	-0.00002
28.9999	34.5268	5.66020	6427.24	5.66021	0.00000

6601.43

6.03059

-0.00015

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

34.5238

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

6.03074

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

