## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2022 CALIBRATION DATE: 22-Nov-15 SBE 37 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## **COEFFICIENTS:**

BATH TEMP	BATH SAL	BATH COND	INSTRUMENT	INSTRUMENT	RESIDUAL
(° C)	(PSU)	(S/m)	OUTPUT (Hz)	COND (S/m)	(S/m)
22.0000	0.0000	0.0000	2664.73	0.00000	0.00000
1.0000	34.6838	2.96572	5328.78	2.96574	0.00002
4.5000	34.6647	3.27183	5530.31	3.27181	-0.00002
15.0000	34.6227	4.25037	6129.41	4.25035	-0.00002
18.5000	34.6138	4.59440	6326.25	4.59440	0.00001
24.0000	34.6042	5.15055	6631.74	5.15057	0.00002
29.0000	34.5992	5.67075	6904.86	5.67074	-0.00001
32.5000	34.5965	6.04198	7093.08	6.04188	-0.00010

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

 $t = temperature \ (^{\circ}C); \quad p = pressure \ (decibars); \quad \delta = CTcor; \quad \epsilon = CPcor;$ 

Conductivity (S/m) = (g + h \*  $f^2$  + i \*  $f^3$  + j \*  $f^4$ ) /10 (1 +  $\delta$  \* t +  $\epsilon$  \* p)

Residual (Siemens/meter) = instrument conductivity - bath conductivity

