



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 9309
CALIBRATION DATE: 12-Nov-23

SBE 37 V2 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.021588e+000
h = 1.398954e-001
i = 6.777173e-005
j = 1.347368e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 9.2605e-008

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2699.60	0.00000	0.00000
1.0000	34.4329	2.94630	5311.68	2.94629	-0.00001
4.5001	34.4123	3.25035	5510.64	3.25036	0.00001
15.0000	34.3691	4.22251	6102.75	4.22251	-0.00000
18.5000	34.3596	4.56427	6297.48	4.56427	0.00000
24.0000	34.3490	5.11674	6599.91	5.11675	0.00002
29.0000	34.3424	5.63336	6870.42	5.63334	-0.00003
32.4998	34.3374	6.00183	7056.92	6.00184	0.00001

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

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

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

