



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

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

SENSOR SERIAL NUMBER: 1806
CALIBRATION DATE: 04-May-21

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

COEFFICIENTS:

g = -9.987012e-001
h = 1.361260e-001
i = -2.364377e-004
j = 4.306558e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.9667e-006

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	2711.79	0.00000	0.00000
1.0000	34.6409	2.96240	5394.80	2.96244	0.00004
4.4999	34.6222	3.26820	5598.11	3.26814	-0.00006
15.0000	34.5815	4.24585	6202.73	4.24586	0.00001
18.5000	34.5739	4.58967	6401.39	4.58967	-0.00000
24.0000	34.5664	5.14555	6709.75	5.14556	0.00001
29.0000	34.5638	5.66560	6985.46	5.66559	-0.00001
32.5001	34.5637	6.03691	7175.37	6.03650	-0.00042

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

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

