



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: 10-Mar-18

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

COEFFICIENTS:

g = -9.853150e-001
h = 1.352627e-001
i = -8.686008e-005
j = 2.418046e-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	2699.55	0.00000	0.00000
1.0000	34.7401	2.97007	5402.90	2.97008	0.00001
4.5000	34.7181	3.27637	5607.45	3.27636	-0.00001
15.0000	34.6738	4.25598	6215.93	4.25597	-0.00000
18.5000	34.6648	4.60044	6415.93	4.60043	-0.00001
24.0000	34.6550	5.15728	6726.42	5.15729	0.00001
29.0000	34.6486	5.67793	7003.99	5.67795	0.00001
32.5000	34.6438	6.04930	7195.25	6.04929	-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

