



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

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

SENSOR SERIAL NUMBER: 13247
CALIBRATION DATE: 30-Sep-22

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

COEFFICIENTS:

g = -9.762133e-001
h = 1.504295e-001
i = -2.297636e-004
j = 3.927008e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 3.9209e-007

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	2550.24	0.00000	0.00000
1.0000	34.5942	2.95878	5117.05	2.95879	0.00001
4.5000	34.5744	3.26414	5311.27	3.26413	-0.00001
15.0000	34.5311	4.24031	5888.69	4.24031	-0.00000
18.5000	34.5217	4.58348	6078.41	4.58349	0.00000
24.0000	34.5106	5.13815	6372.84	5.13816	0.00000
29.0000	34.5033	5.65679	6636.03	5.65679	-0.00000
32.5000	34.4955	6.02634	6817.14	6.02623	-0.00011

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

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

