

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2448
CALIBRATION DATE: 15-Dec-09

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

COEFFICIENTS:

g = -1.029233e+000

CPcor = -9.5700e-008

h = 1.464112e-001

CTcor = 3.2500e-006

i = -9.313761e-005

WBOTC = 7.2604e-006

j = 3.052655e-005

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2651.45	0.00000	0.00000
1.0000	34.8576	2.97916	5226.17	2.97917	0.00001
4.4999	34.8379	3.28655	5421.96	3.28655	-0.00001
15.0000	34.7942	4.26919	6004.40	4.26919	-0.00000
18.5000	34.7843	4.61458	6195.83	4.61457	-0.00001
23.9999	34.7726	5.17283	6493.04	5.17285	0.00002
29.0000	34.7652	5.69489	6758.81	5.69489	0.00000
32.5001	34.7602	6.06732	6942.01	6.06732	-0.00001

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

