

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4547
 CALIBRATION DATE: 09-Dec-16

SBE 19plus CONDUCTIVITY CALIBRATION DATA
 PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.043973e+000
 h = 1.449733e-001
 i = -2.723394e-004
 j = 4.225806e-005

CPcor = -9.5700e-008
 CTcor = 3.2500e-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	2687.45	0.0000	0.00000
1.0000	34.9549	2.98668	5277.59	2.9867	0.00002
4.4999	34.9358	3.29488	5474.95	3.2948	-0.00003
15.0000	34.8929	4.28001	6062.19	4.2800	-0.00001
18.4999	34.8839	4.62636	6255.27	4.6264	-0.00000
24.0000	34.8740	5.18626	6555.07	5.1863	0.00003
29.0000	34.8687	5.70993	6823.18	5.7099	-0.00001
32.5000	34.8657	6.08363	7008.05	6.0836	-0.00001

f = Instrument Output (Hz) / 1000.0

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

