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

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

SENSOR SERIAL NUMBER: 0288
CALIBRATION DATE: 13-Dec-20

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

```
g = -9.853326e-001
h =  1.591503e-001
i = -4.375282e-004
j =  5.998750e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =  3.3420e-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	2493.84	0.00000	0.00000
1.0000	34.6786	2.96531	4993.14	2.96533	0.00002
4.4999	34.6587	3.27131	5182.38	3.27131	-0.00000
14.9999	34.6177	4.24981	5745.07	4.24976	-0.00005
18.4999	34.6090	4.59382	5929.97	4.59382	0.00001
24.0000	34.5994	5.14992	6216.92	5.14996	0.00005
29.0000	34.5935	5.66992	6473.35	5.66992	-0.00000
32.5000	34.5890	6.04082	6650.01	6.04080	-0.00002

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

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

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

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