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

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

SENSOR SERIAL NUMBER: 0122
CALIBRATION DATE: 08-Mar-18

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

COEFFICIENTS:

```
g = -1.048343e+000
h =  1.311605e-001
i = -9.912503e-005
j =  2.532692e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -3.5355e-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 | 2828.11 | 0.00000 | 0.00000 |
| 1.0000 | 34.7127 | 2.96795 | 5528.89 | 2.96794 | -0.00001 |
| 4.5000 | 34.6915 | 3.27411 | 5734.98 | 3.27411 | 0.00001 |
| 15.0000 | 34.6485 | 4.25320 | 6348.53 | 4.25321 | 0.00001 |
| 18.5000 | 34.6394 | 4.59743 | 6550.32 | 4.59744 | 0.00001 |
| 24.0167 | 34.6293 | 5.15559 | 6864.62 | 5.15557 | -0.00002 |
| 29.0001 | 34.6237 | 5.67432 | 7144.03 | 5.67432 | -0.00001 |
| 32.5000 | 34.6200 | 6.04562 | 7337.32 | 6.04563 | 0.00001 |

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

t = temperature (°C); p = pressure (decibars); $\delta$ = CTcor; $\varepsilon$ = 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