



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

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

SENSOR SERIAL NUMBER: 2322  
CALIBRATION DATE: 25-May-21

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 1.000005e+000  
rtca1 = 1.572737e-006  
rtca2 = -3.308041e-008

BATH TEMPERATURE (° C)	RTC FREQUENCY (Hz)	COMPUTED FREQUENCY (Hz)	RESIDUAL (PPM)
0.9998	1.0000070	1.0000066	-0.4
4.5000	1.0000110	1.0000115	0.5
15.0000	1.0000210	1.0000212	0.2
18.5000	1.0000230	1.0000228	-0.2
23.9999	1.0000240	1.0000238	-0.2
28.9999	1.0000230	1.0000229	-0.1
32.5001	1.0000210	1.0000212	0.2

t = temperature (°C)

RTC frequency =  $rtca0 + rtca1 * t + rtca2 * t^2$

Residual (PPM) = (Computed RTC frequency - Measured RTC frequency) \* 1e6

