

Certificate of Calibration

Ocean Sonics, Ltd.

Calibration Certificate Number:

C7086

Test Result:

10 kHz to 100 kHz: -170.3 ± 1.6

10 kHz to 200 kHz: -170.8 ± 5.9

SB35-ETH **Model Number Serial Number** 1389 Manufacture Date 21-May-2015 Measurement Date 8-Mar-2023 8-Mar-2023 **Certificate Date** Sensitivity @ 26 Hz -168.9 dB re V / uPa Case Type Titanium **Element Manufacturer** GeoSpectrum **Element Model** M24HF **Element Serial** 1773 04-300419-01 Preamp Model D.Lee Calibrated By W45-135

Work Order Number **Test Type**

Test Procedure Test Location Water Temperature

Ocean Sonics **Projector Manufacturer** TH2-SER-4F **Projector Model Projector Serial**

2225 Measurement Distance 1 m

Output Level 129.7 dB re uPa @ 1 m Tone Burst 100.0 us / 300 ms

36 dB

Reference Manufacturer **Ocean Sonics** Reference Model RB9-ETH 2080 Reference Serial

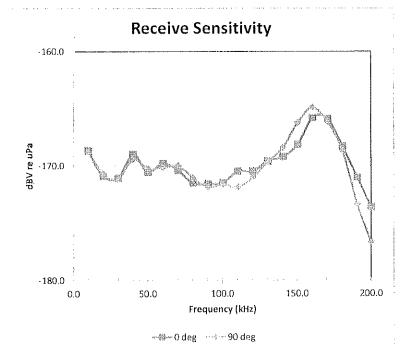
Primary Calibration 20-Jan-2020 Preamp Manufacturer Ocean Sonics

Preamp Model 04-300449-01 Preamp Serial M58

ADC Manufacturer Ocean Sonics ADC Model Number 04-300426-01

ADC Serial Number M59

Preamp Gain



RX Sensitivity

Complex RMS

Tank #3, 1 m

16 °C

Frequency	Sensitivity [dBV re µPa]	
kHz	0 deg	90 deg
10.0	-168.7	-168.8
20.1	-170.9	~170.7
30.1	-171.1	-171.2
40.2	-169.0	-169.4
50.2	-170.6	-170.2
60.2	-169.8	-170.2
70.3	-170.4	-170.0
80.3	-171.6	-171.0
90.4	-171.6	-171.9
100.4	-171.5	-171.7
110.4	-170.5	-171.9
120.5	-170.5	-171.1
130.5	-169.6	-169.7
140.5	-169.2	-168.4
150.6	-168.2	-166.3
160.6	-165.8	-164.9
170.7	-165.9	-166.2
180.7	-168.3	-168.7
190.7	-171.1	-173.4
200.0	-173.6	-176.7