

AZFP Calibration Toolbox s/n 59009

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1 Summary

- Config File Check: **PASS**
- Estimated Noise Floor: **PASS**
- Sphere Target Strength Offset: **PASS**

Table 1: Summary Noise Floor and TS Values

	Freq (kHz)	Min	Obtained	Max
Noise Floor (counts)	67	-	8400	16000
Target Strength (dB)	67	-55.2	-54.1	-53.2

2 Configuration Values

File: N:\Configs\ULS5\GLIDER5-Configs\59009.cfg

Table 2: CFG file values

	67kHz
TVR	163.0000
VTX	160.9000
BP	0.0000
Echo Level	149.2000
Detector Slope	0.0234

3 Noise Floor

From file: K:\Manufacturing Tests\GLIDER5\59009\MN-WR-19.2 59009\Noise Floor 3rd\20041409.01A

Table 3: Noise Floor Statistics (counts)

	67kHz
Mean	8387
Min	8101
Max	32526
Std Dev	350
Noise Floor (Calc)	8400
Avg Temp (degC)	2.0
Sound Speed (m/s)	1412.2
Absorb Coeff	0.0020

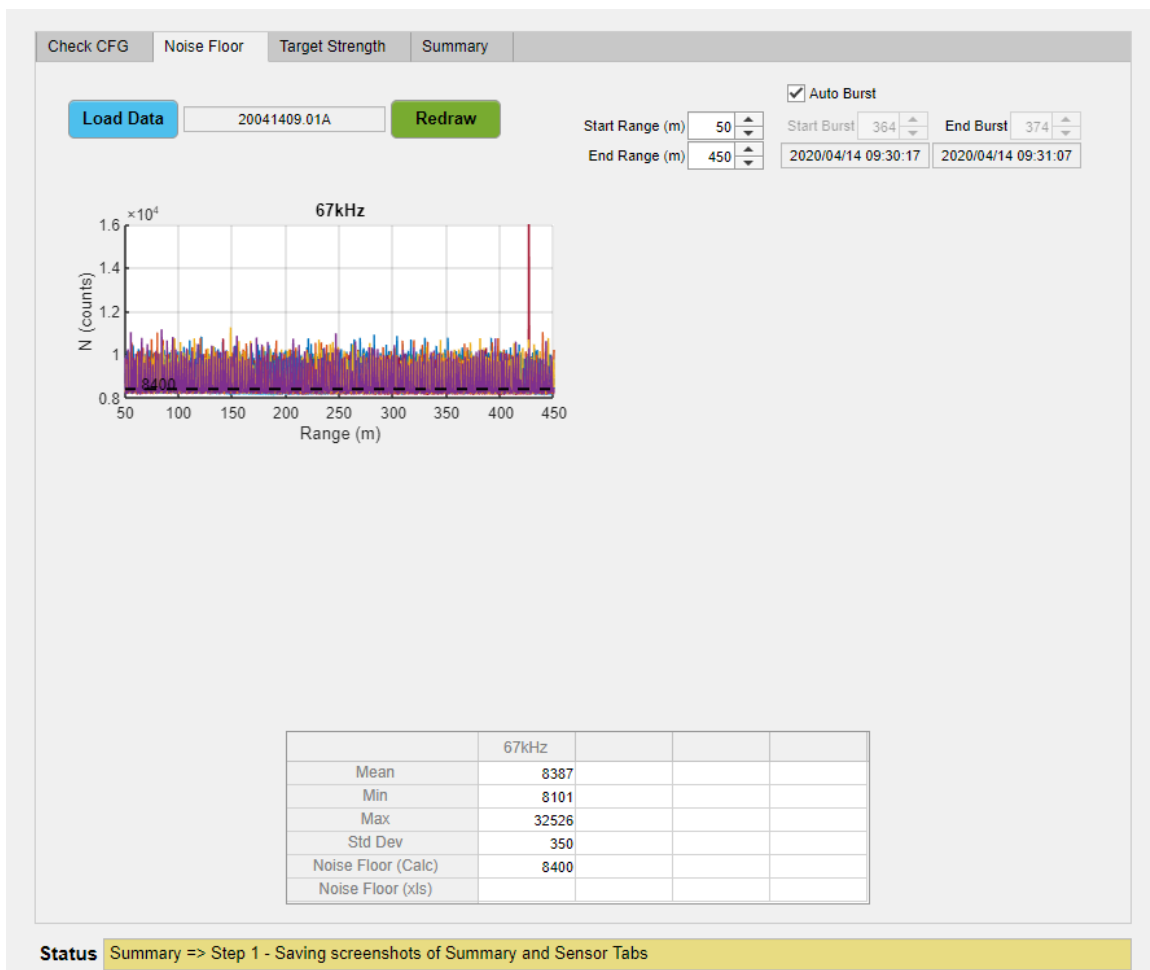


Figure 1: Noise Floor Details

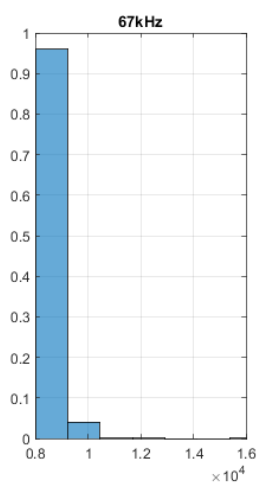


Figure 2: Noise Floor Histograms: Occurrence vs Counts

4 Sphere Target Strength Estimate: 67kHz

File #1: K:\Manufacturing Tests\GLIDER5\59009\MN-WR-19.2 59009\Tank Test #1\70 only\20041311.02A

Table 4: Summary of Sphere Target Strength: 67kHz

	67kHz
Range (m)	3.20
TS Correction (dB)	1.90
TS Measured-Correction (dB)	-54.10
TS Theory (dB)	-54.20
Difference (Meas-Corr-Theory)	0.00
Avg Temp (degC)	17.5
Sound Speed (m/s)	1474.4
Absorb Coeff	0.0011

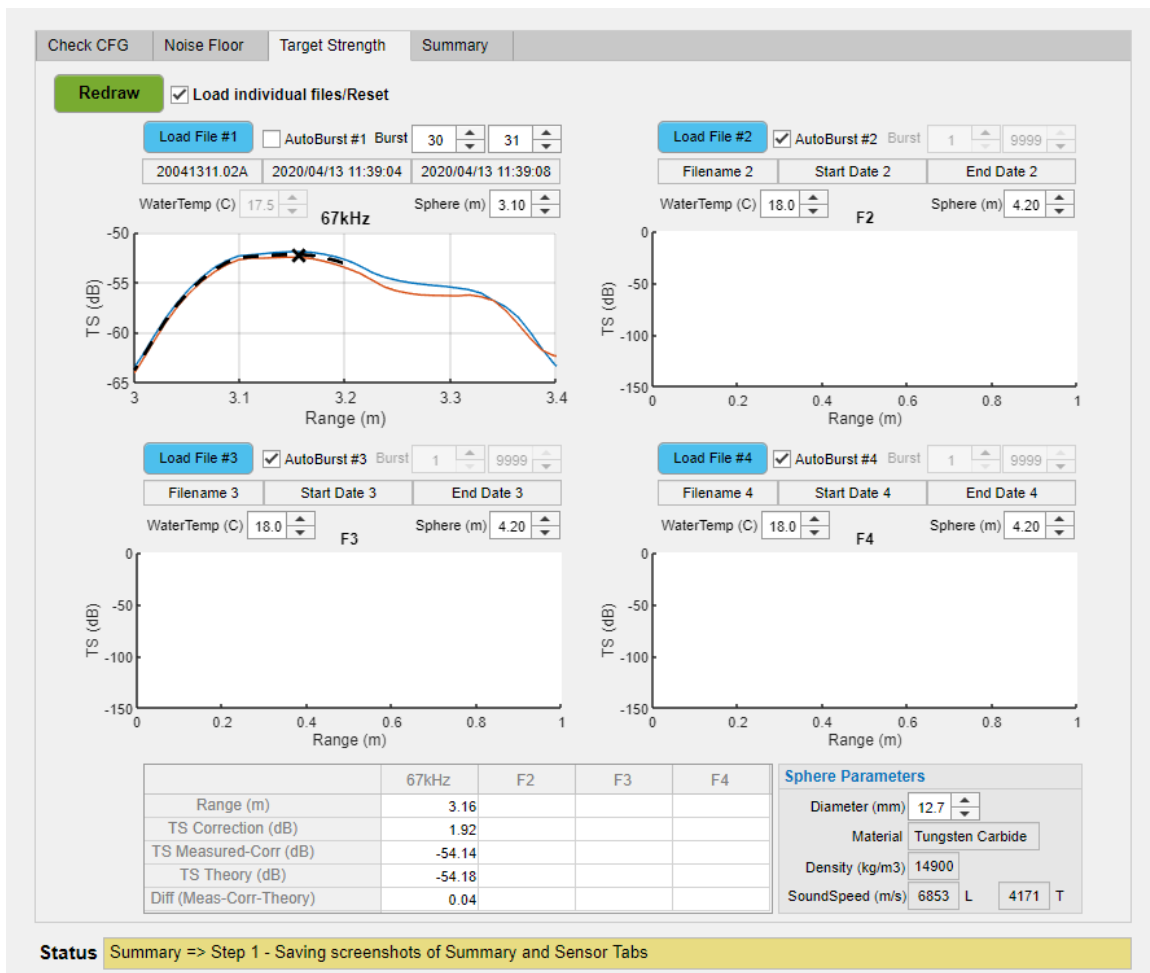


Figure 3: Target Strength Details: 67kHz