

# Microphone Frequency Response Measurement Report

**Customer:** Cascade Microphones Address: 3720 Gravelly Beach Loop NW

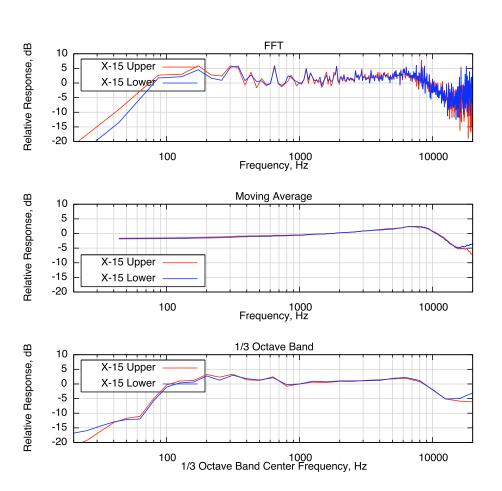
Project No.: J2007-020 Olympia, WA 98502

**Microphone Manufacturer:** Cascade Microphones **Model Number:** X-15

**Serial Number:** N/A **Phantom Power:** N/A

**Measurement Date:** Jan 18, 2006 **Temperature:** 68°F/20°C

**Engineer:** H. Singleton **Humidity:** 23%

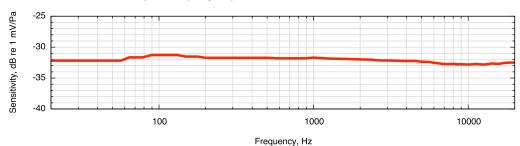


1/3 OB Results		
Freq.	Resp.	(dB)
Element	Upper	Lower
25	-19.35	-15.98
31.5	-16.32	-14.46
40	-13.15	-12.97
50	-11.73	-12.16
63	-11.06	-11.99
80	-4.99	-5.71
100	-0.35	-1.08
125	1.01	0.37
160	1.21	0.67
200	3.24	2.74
250	2.33	1.28
315	3.37	2.97
400	1.42	1.82
500	1.21	1.35
630	2.46	2.13
800	-0.78	-0.24
1000	0.00	0.00
1250	0.61	0.95
1600	0.50	0.74
2000	0.91	1.05
2500	0.84	1.05
3150	1.25	1.11
4000	1.45	1.22
5000	1.72	1.92
6300	1.92	2.23
8000	0.81	1.15
10000	-1.89	-2.03
12500	-5.13	-5.14
16000	-5.87	-4.97

This frequency response measurement is not a NIST-traceable calibration.

## **Reference Microphone**

Reference Microphone Frequency Response: ACO Pacific 7052S, S/N 31220, Cal. Date March 16, 2006





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#### **Supplemental Information**

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**Ref. Calibrator:** GenRad 1986 **Serial Number:** 00242

**Microphone Sensitivity:** -51.7 dB (2.6 mV/Pa) Lower **Noise Floor:** <17 dBA Lower **(re 1000Hz, 94 dB)** -51.7 dB (2.6 mV/Pa) Upper <17 dBA Upper

#### Cascade X-15 Ribbon Microphone Polar Response (Upper)

## Cascade X-15 Ribbon Microphone Polar Response (Lower)

