



Aquarian Audio & Scientific
division of: AFAB Enterprises, LLC
5677 Patricia Lane
Anacortes, WA 98221 USA
(360) 299-0372 , sales@aquarianaudio.com
www.aquarianaudio.com

PA6 noise (RtHz) with and without AS1 attached.

Notes about equivalent self noise of system, measured in sound pressure level referenced to 1uPA (as is standard for underwater sound):

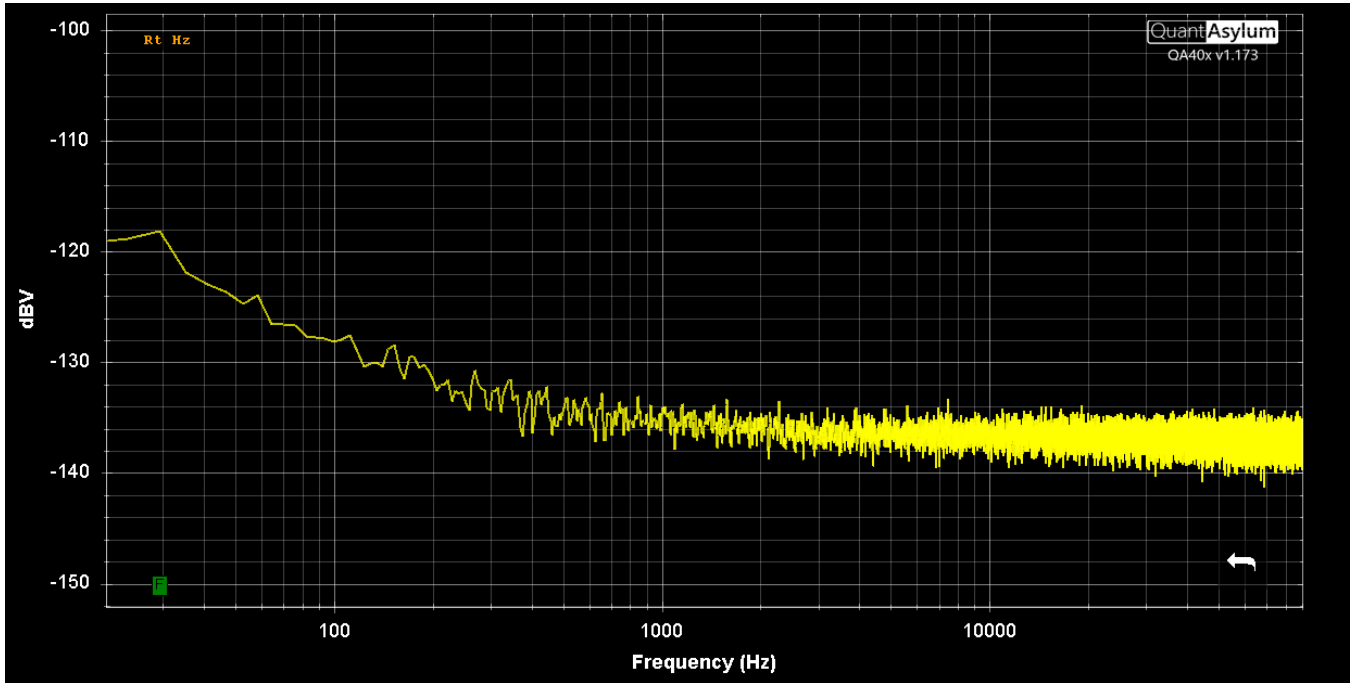
Add PA6 gain to hydrophone sensitivity, then take absolute value and add RtHz noise level.

By example: Typical AS-1s with 9m cable have been coming out with sensitivities of -206dBV re: 1uPa. Standard gain for PA6 is 26dB.

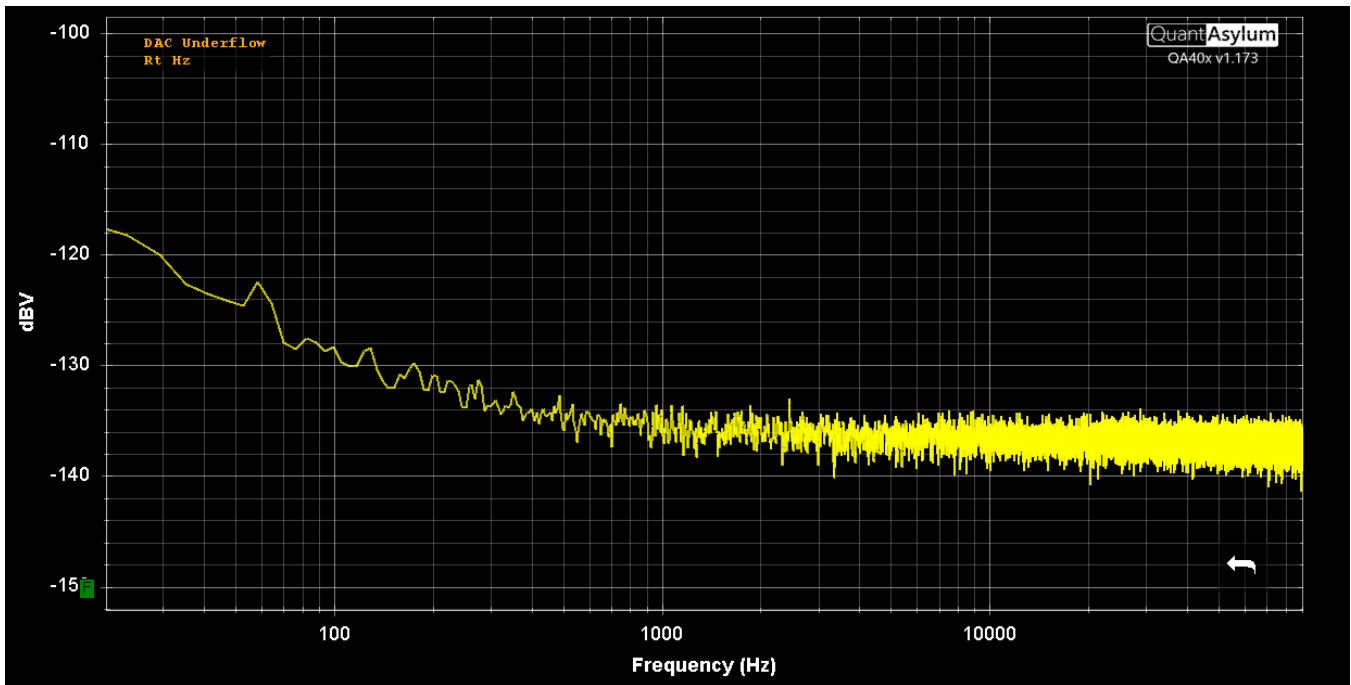
-206+26=-180 (Shortcut without the math: This means that at 180dBspl, the hydrophone and PA6 would output 1Vrms.) Viewing the first chart below, you'll see that at 1KHz, noise level is approximately -135dBV. $180 + -135 = 45$.

Therefore the equivalent self noise of a typical AS-1 when used with the PA6 at 1KHz is 45dBspl.

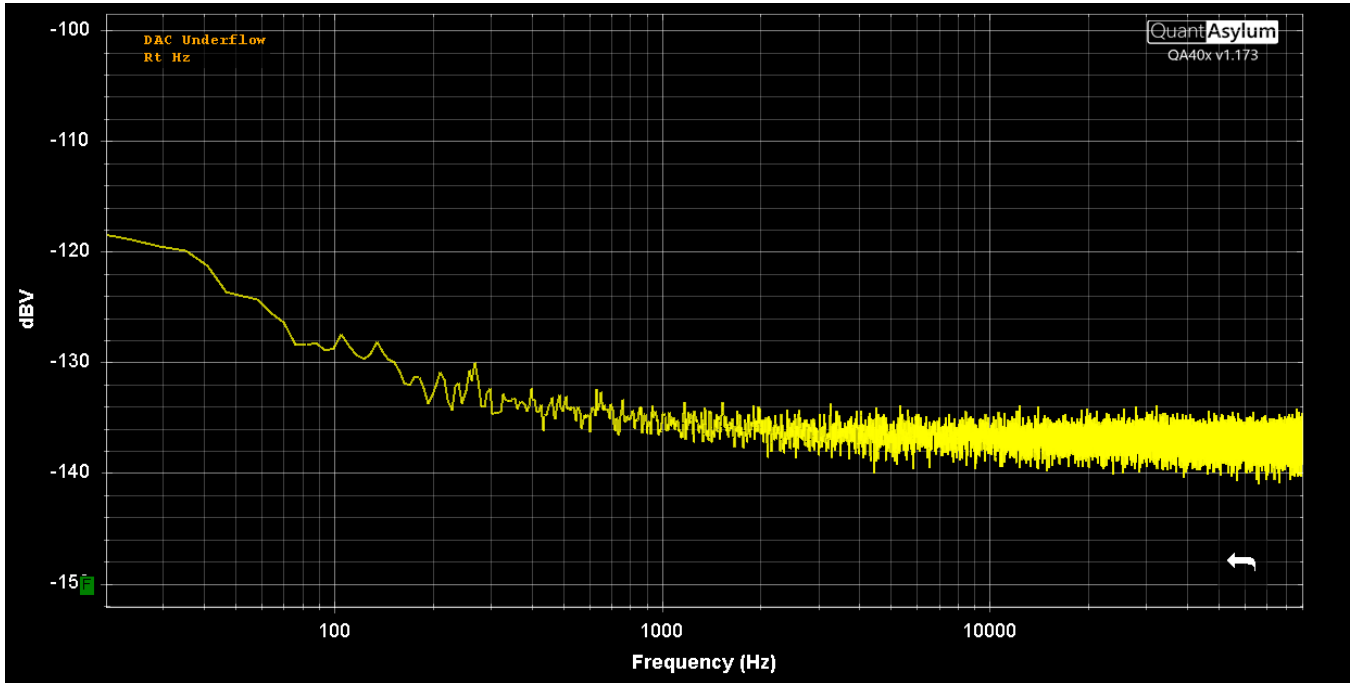
PA6 SN# A230197 with AS-1 attached:



PA6 SN# A230197, input shunted with 6.8nF capacitor



PA6 SN# A230196 with AS-1 attached:



PA6 SN# A230196, input shunted with 6.8nF capacitor

