

# Underwater radiated noise levels after 5 yrs of operations R/V Simon Stevin

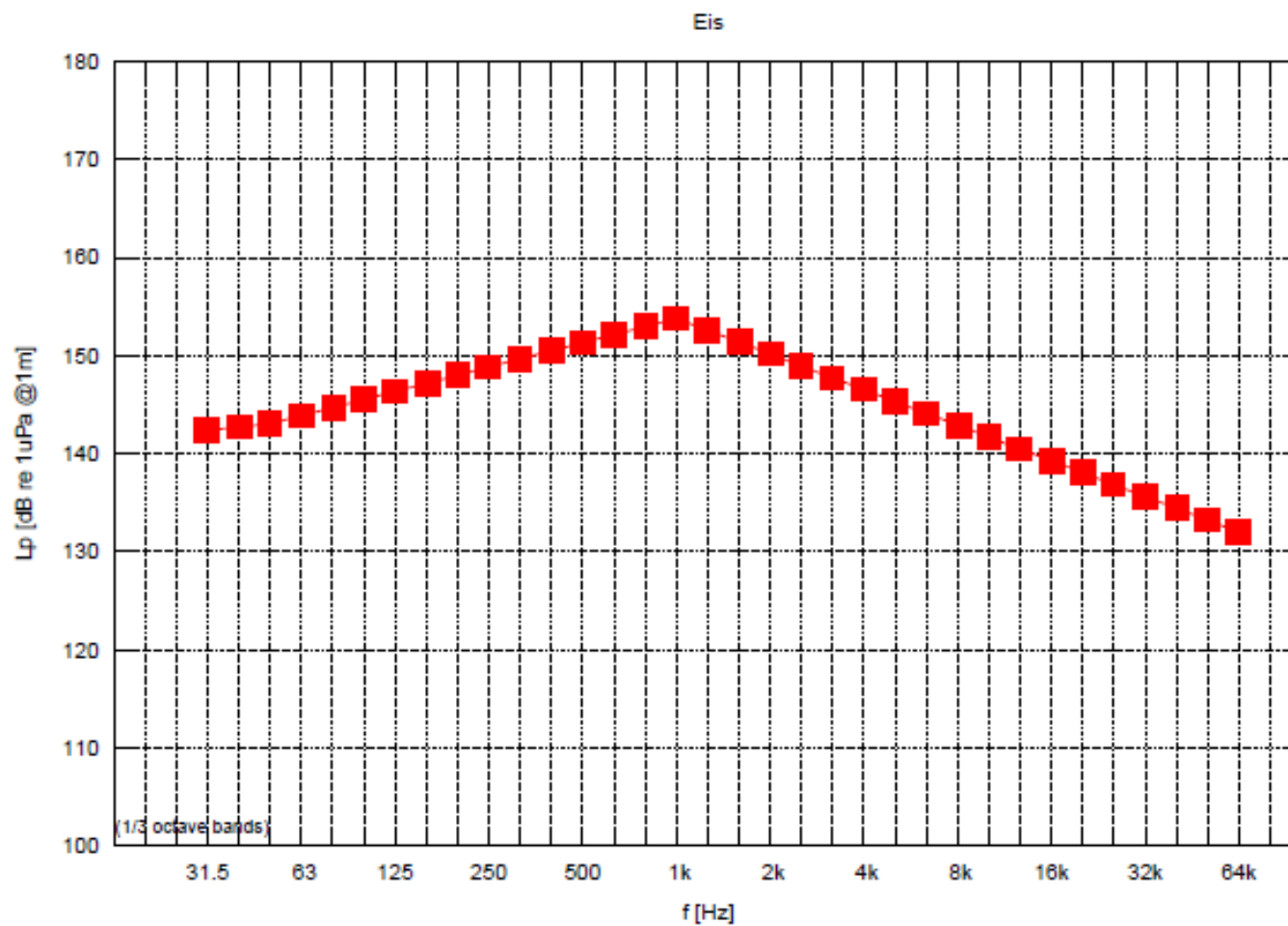


Vlaams Instituut voor de Zee vzw  
Flanders Marine Institute

IRSO 31  
CMIMA, Barcelona 1-5 October 2018



International Research  
Ship Operators





# Quiet Research Ships

**Gearbox**

**Diesel GenSets & electric propulsion engines**

**Propeller**

**Auxilliarities (pumps, piping, electric circuits)**

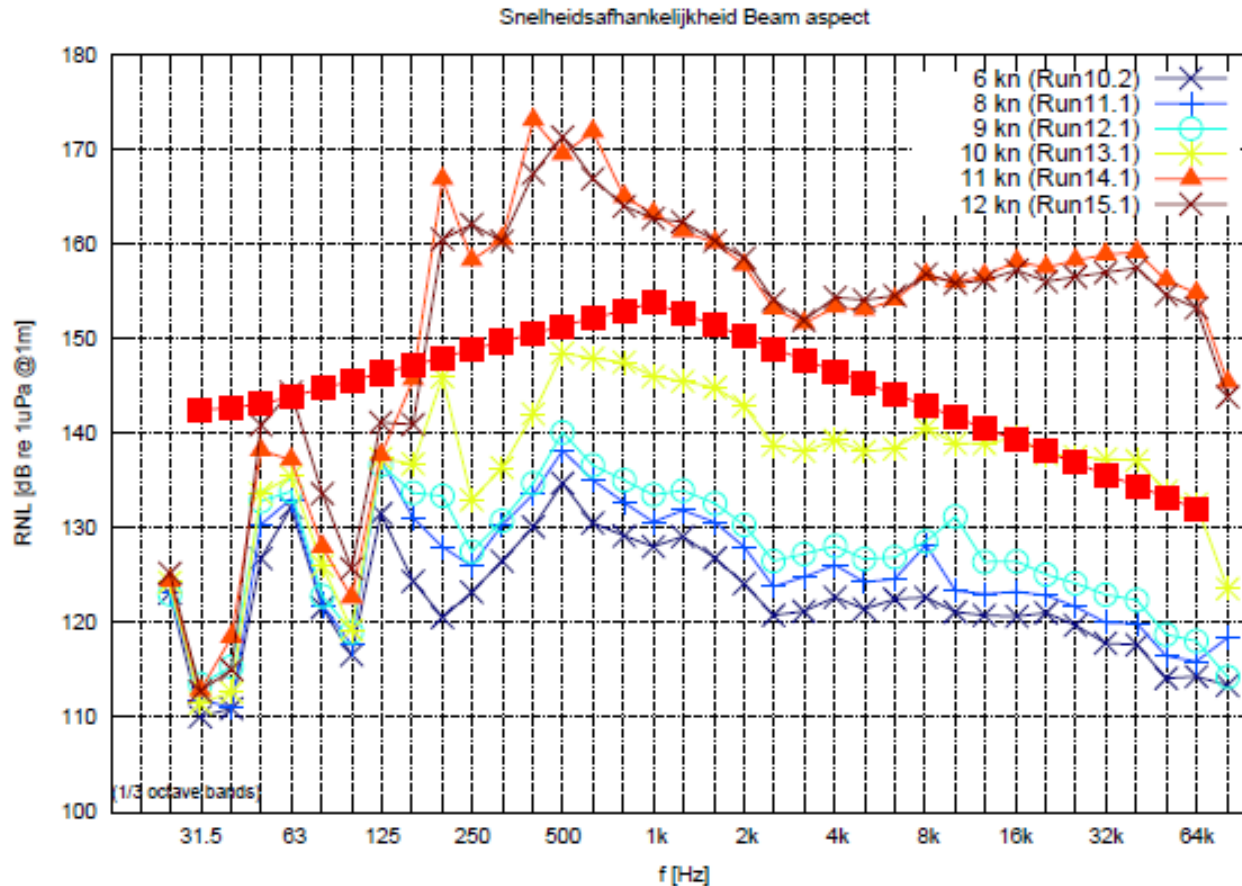
**Hull appendages**





# Simon Stevin

## URN profile 2012





# URN profile 2017?

**Wear & tear**

**Vibration issue with turbo's**

**Issues with cooling pumps & lube pump**

**Re-design of seawater intake**

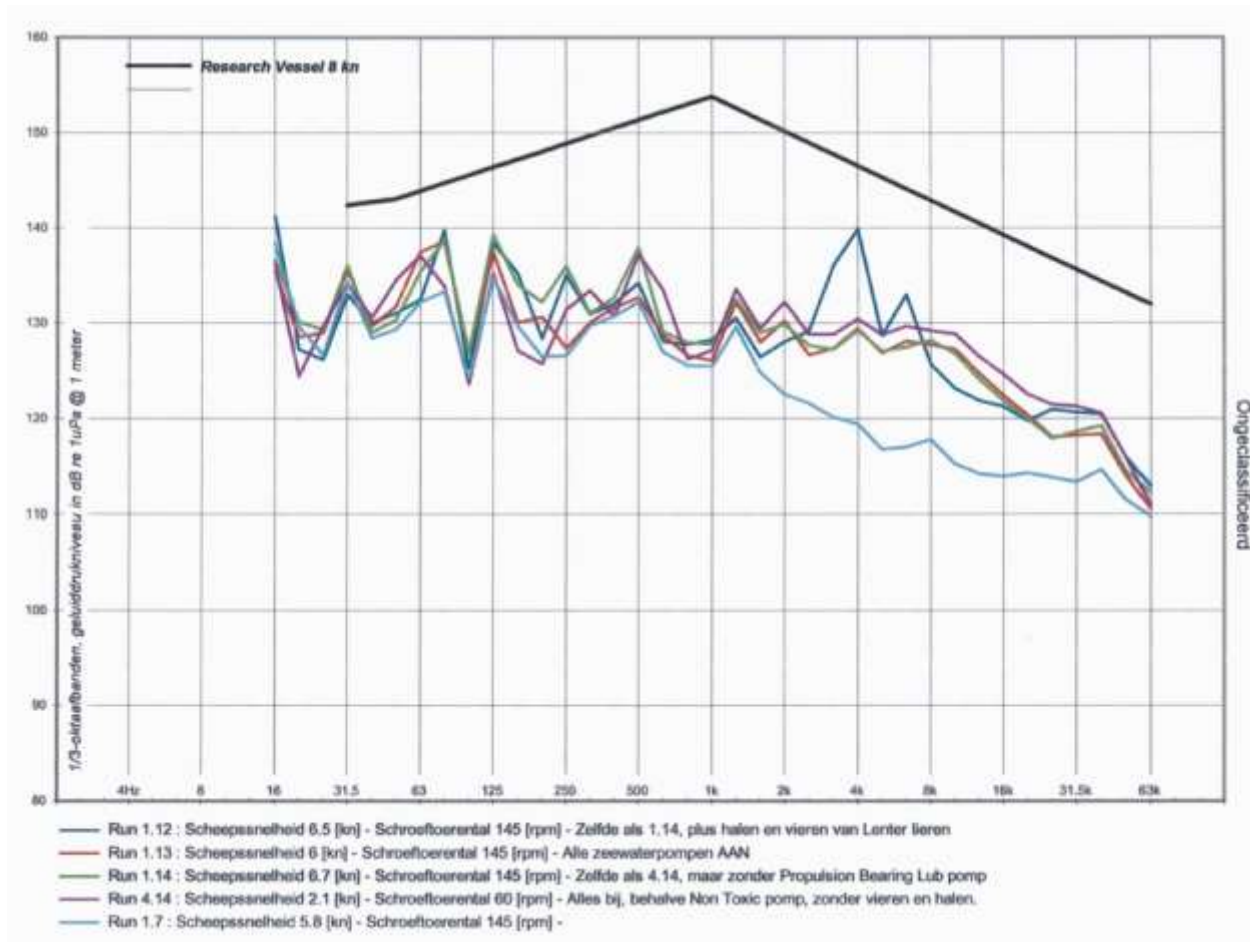
**New pump for seawater intake & extra sensors / electronic**

**New blister for multibeam**



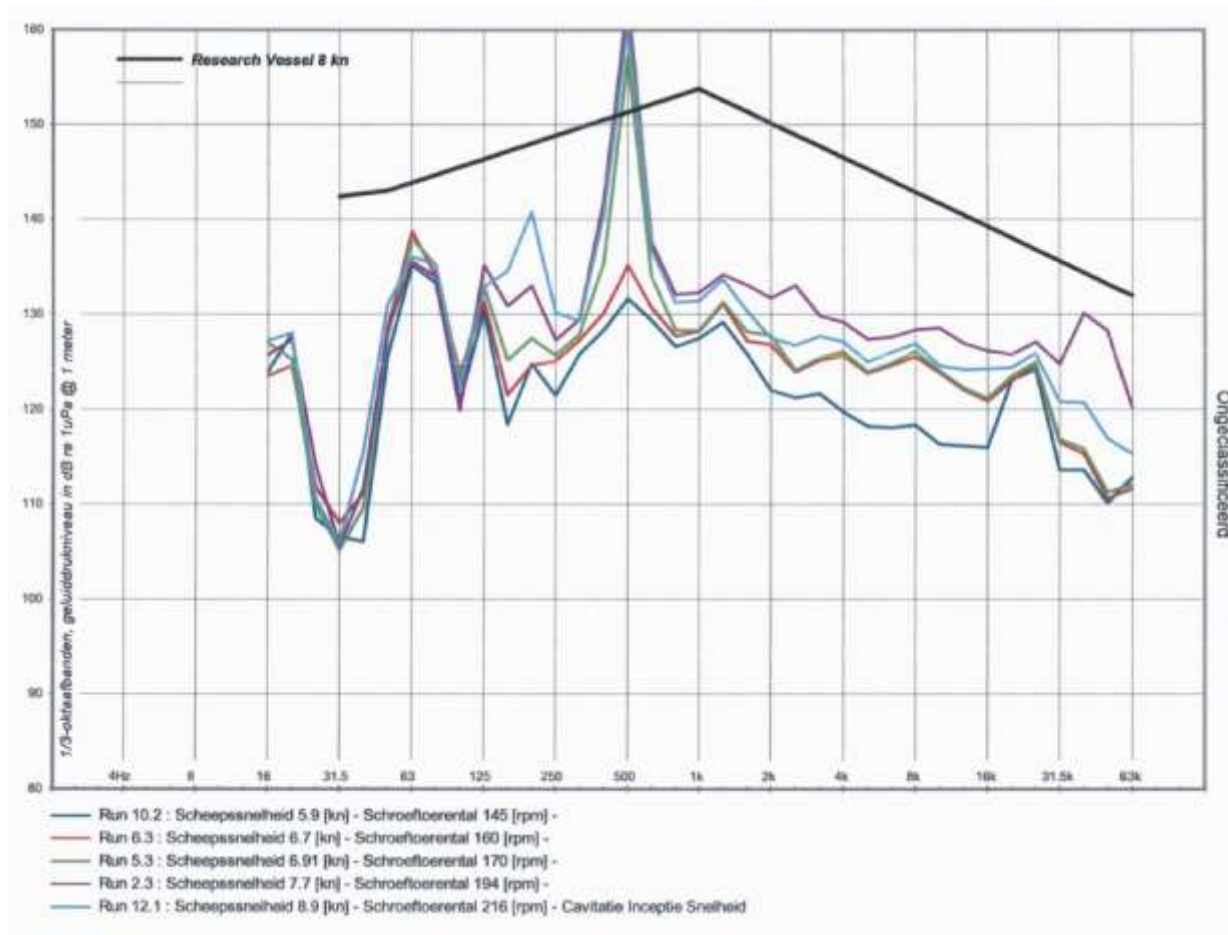


# URN profile 2017



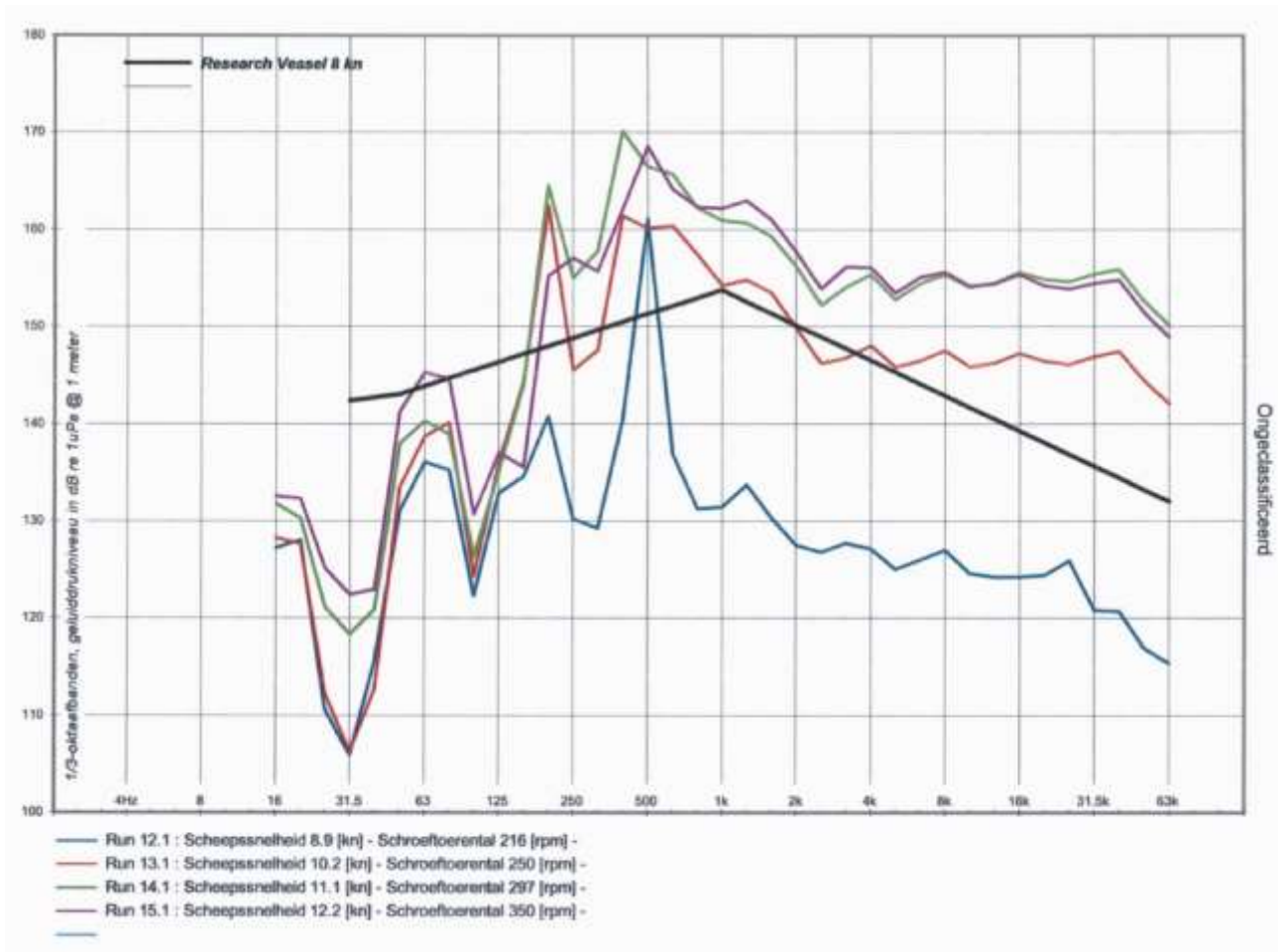


# URN profile 2017



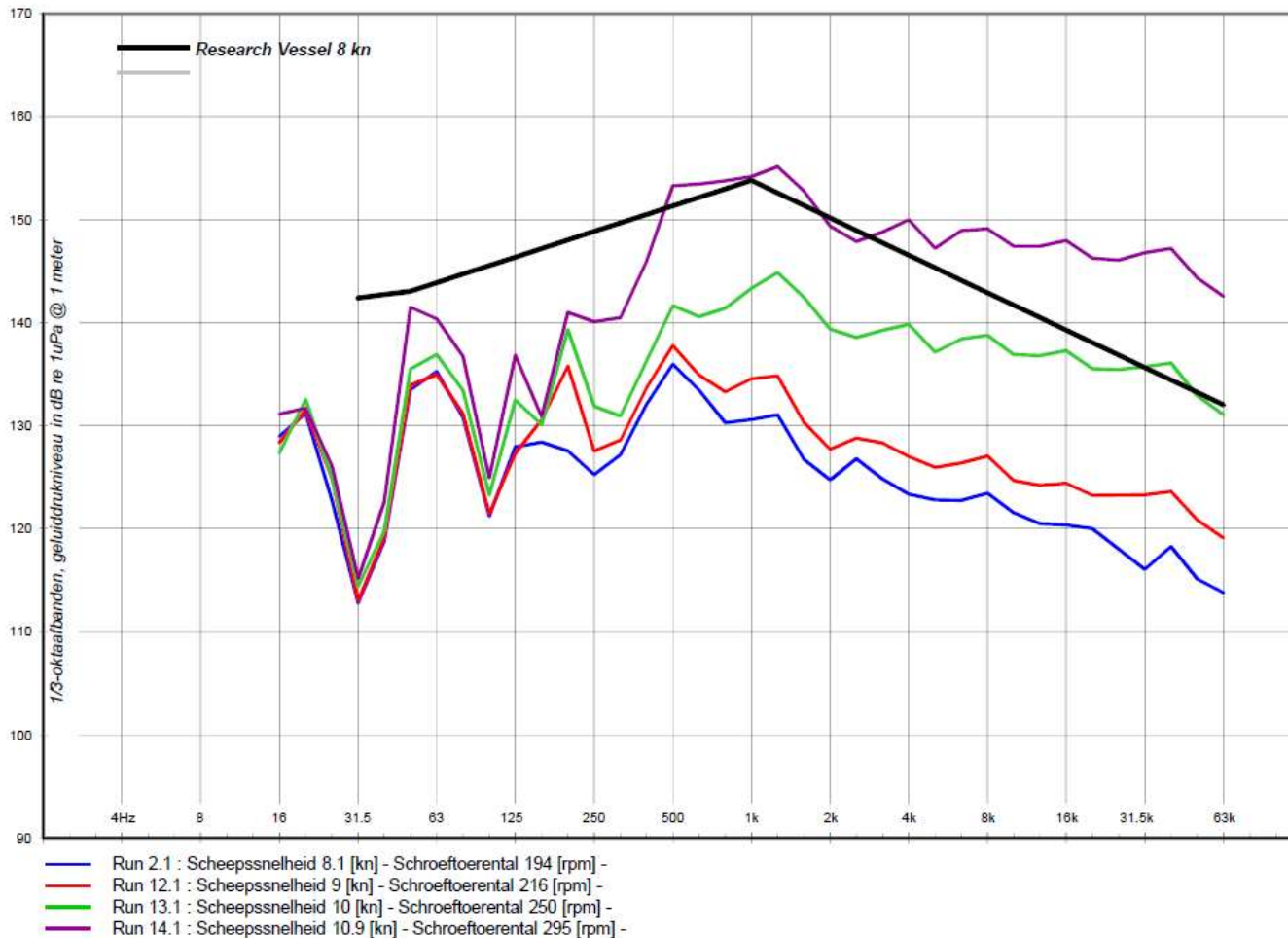


# URN profile 2017



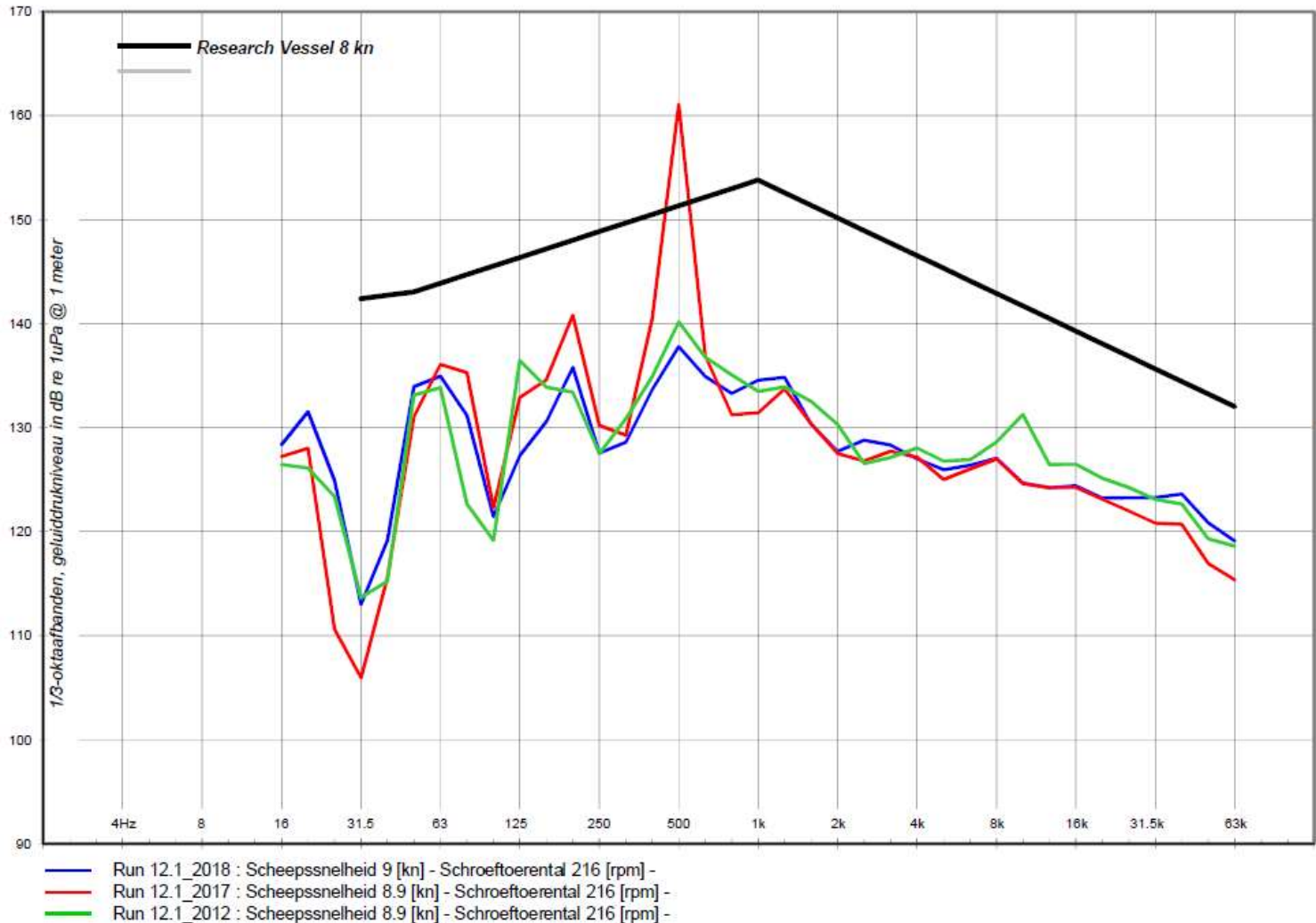


# URN profile 2018

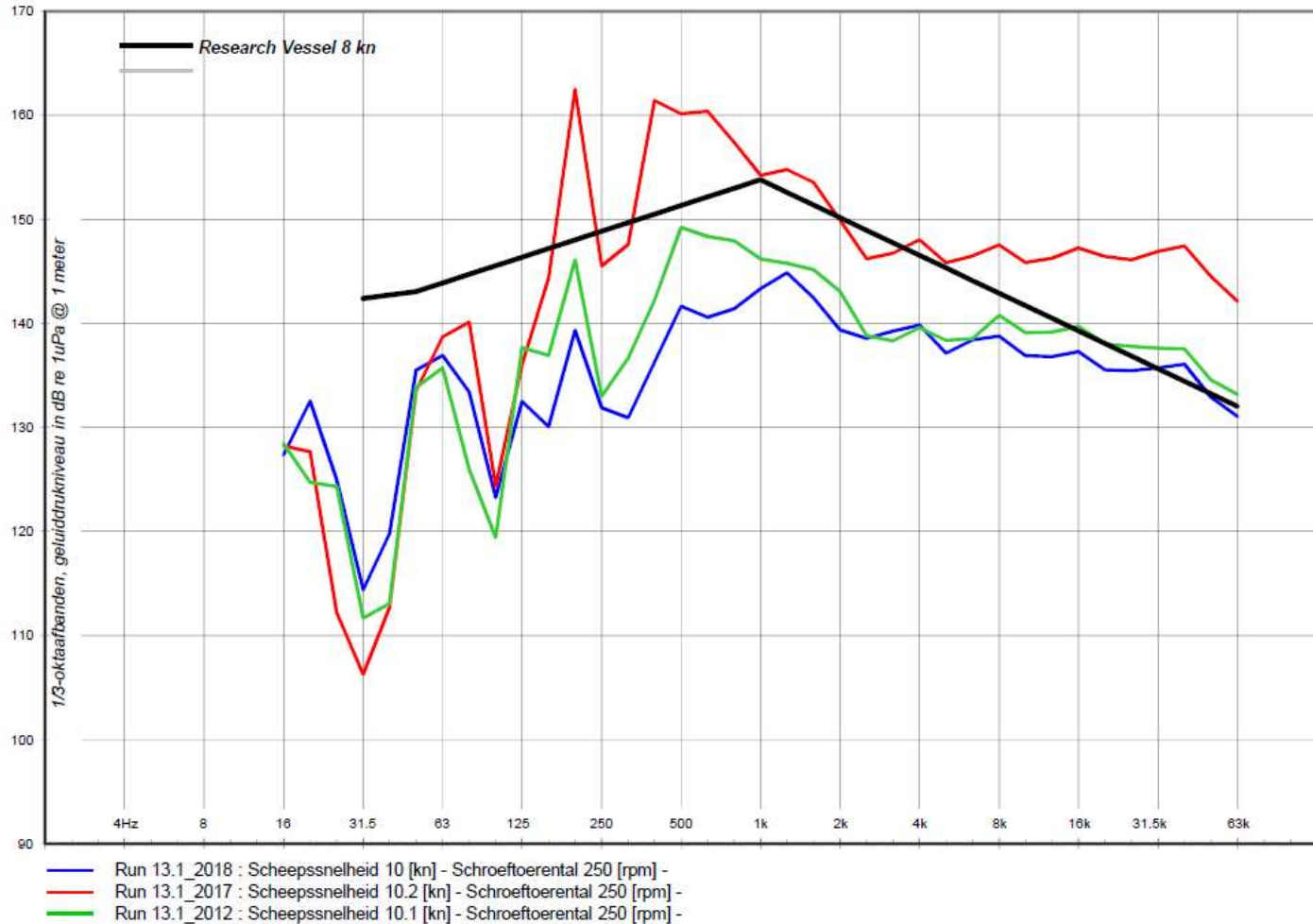




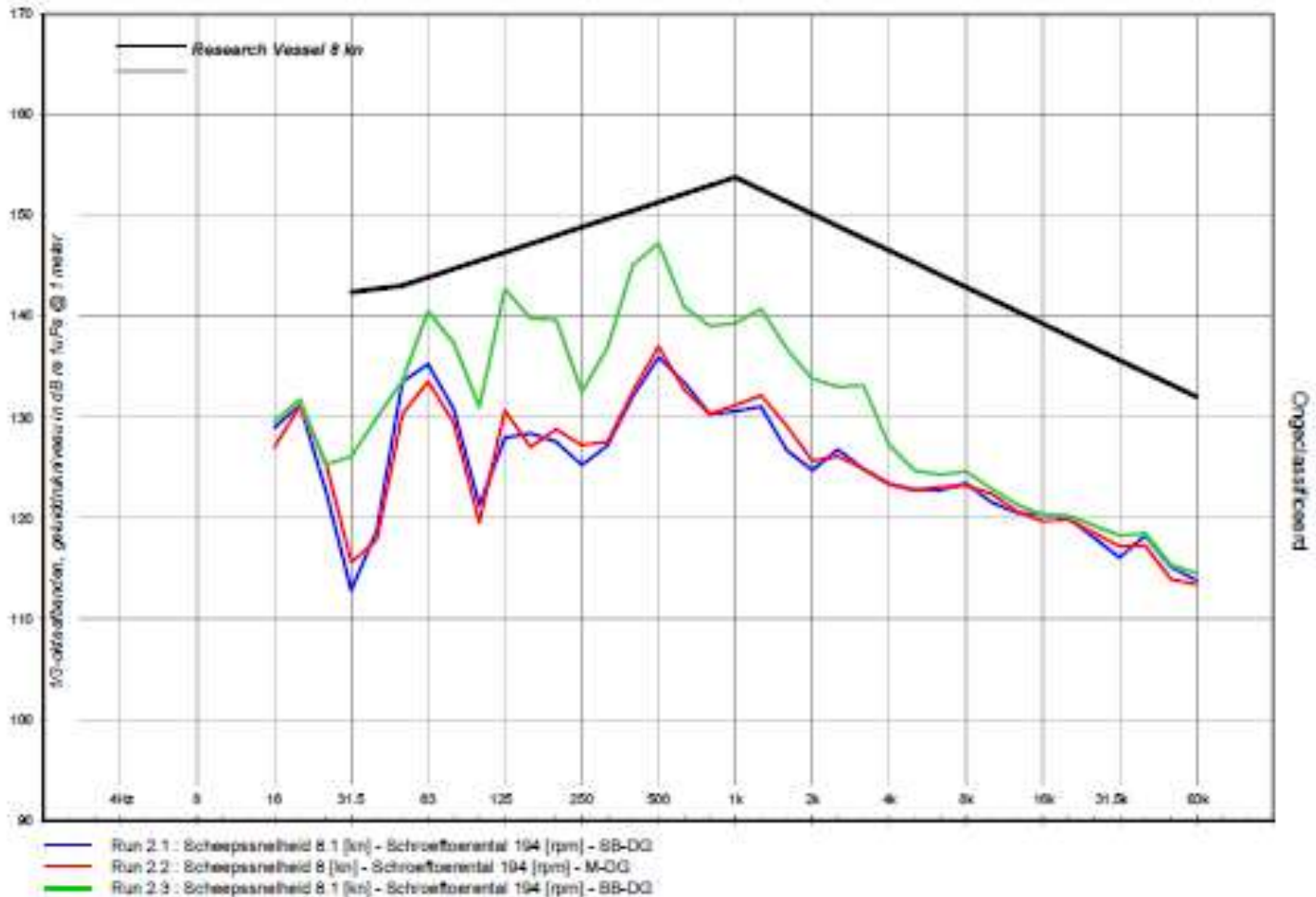
# 9Kn 2012, -17 & -18

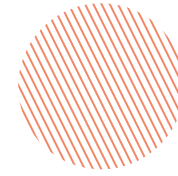
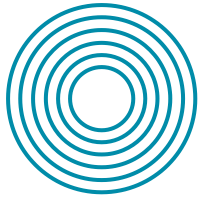


# 10 Kn 2012, -17 & -18



# 8 Kn 2012, -17 & -18 fixed PS DG





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