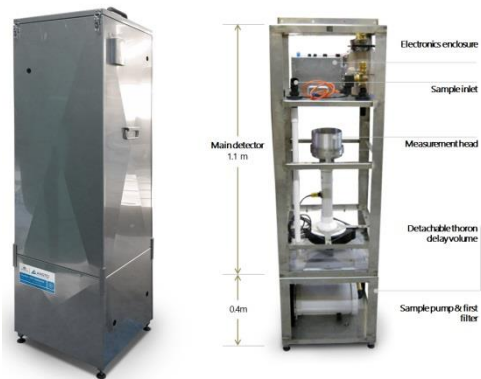


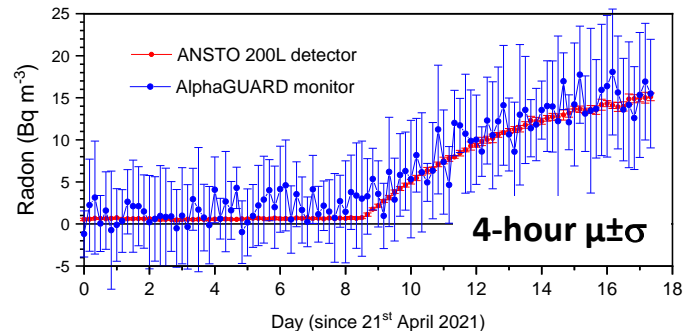
Field testing a portable two-filter dual-flow-loop ^{222}Rn detector

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- 200 L volume, is 1.5 m tall and 48 cm wide (2 pieces)
- Marine stainless steel, low maintenance, low power
- Fits in the space of a 19" instrument rack
- Sampling flow rate 12-15 L min⁻¹, 30-min sampling
- ^{222}Rn sensitivity 2.5 – 3 counts per minute / Bq m⁻³
- **Detection limit 0.15 – 0.2 Bq m⁻³**
- Compare with AlphaGUARD (Rn_{ENV} 0 - 15 Bq m⁻³)



- Comparison with 1500 L detector (**detection limit 0.03 Bq m⁻³**)
- Similar performance over **0.2 – 6 Bq m⁻³**, faster response time
- Good option for calibration transfer device and confined space sites
- Not suitable for "baseline" sites (where $^{222}\text{Rn} \leq 0.1 \text{ Bq m}^{-3}$)

