

- There is utility for ³⁷Ar as an additional signature for nuclear explosion monitoring.
- With a sufficiently low detection limit, a network of ³⁷Ar detectors would have a high probability of detecting ³⁷Ar produced from a UNE.
- ³⁷Ar can also be detected in coincidence with radioxenon isotopes, helping to increase confidence in signature analysis.

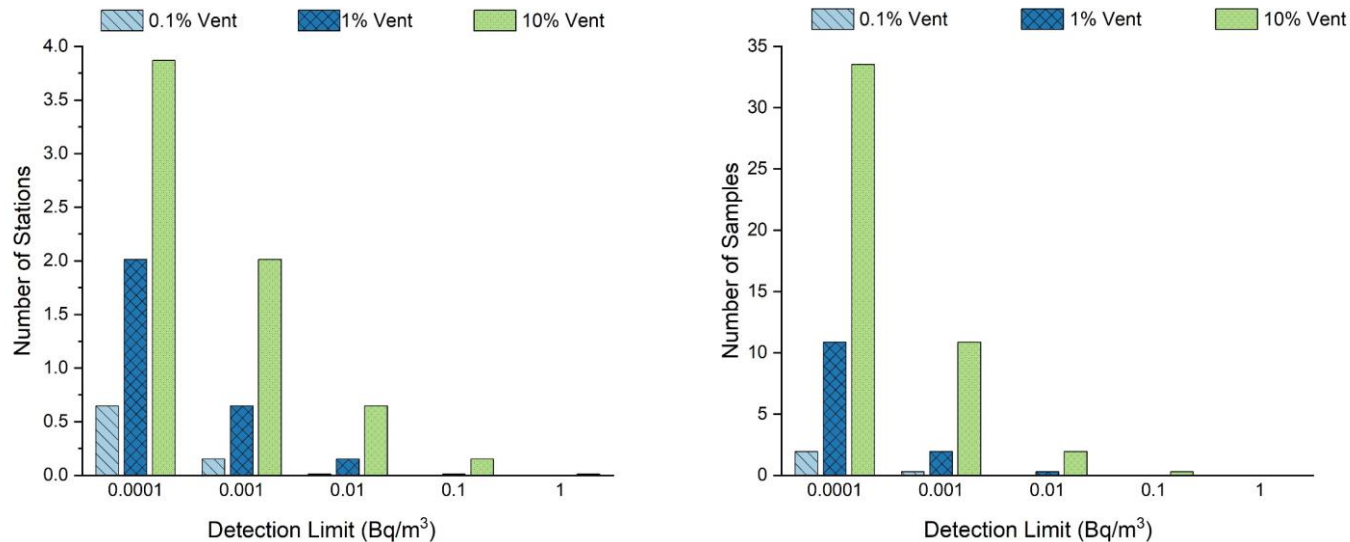


Fig 2. Average number of stations detecting each release and average number of samples with a detectable concentration.

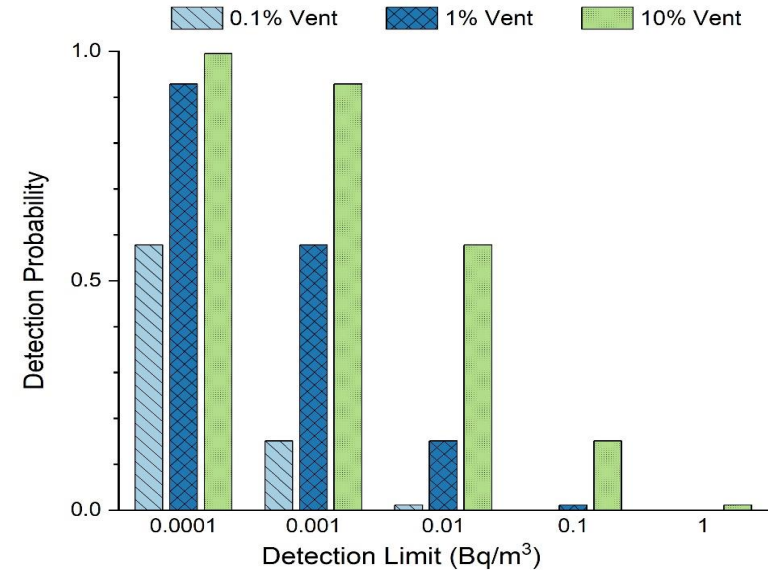


Fig 1. Probability that a release is detected in one or more samples.