The Triton Traceptor™
The first reversible trace vapor phase sample collector and pre-concentrator module. Can be adapted for aerosol and solid phase collection and volatilization.

- Low power: works with miniaturized devices
- Collects & concentrates vapor, aerosol & particles
- Flash desorption as vapor to detector
- Modular front end integrates seamlessly with existing devices
- Chemically selective & agnostic to detection system: universal applicability
- Enables detection not possible with current detectors of ultra-low volatility compounds/aerosols
- Rapid desorption, long lifetime, minimum consumables, inexpensive
- Extensive data with chemicals, narcotics and explosives with wide range of trace sensor devices

Specific capabilities at Triton:
Sample collection and preconcentration for gas, solid and aerosols using low power to improve sensor sensitivity and selectivity for trace analytes

Specific capabilities sought by Triton:
OEMs for ultra-low power chemical sensors having high dynamic range separation with high specificity

Research Areas of Interest:
- Sampling methods for increasing sensor sensitivity
- Integration of sampling systems with portable and stationary trace detectors
- Develop plug-in modules for specific sensor systems

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