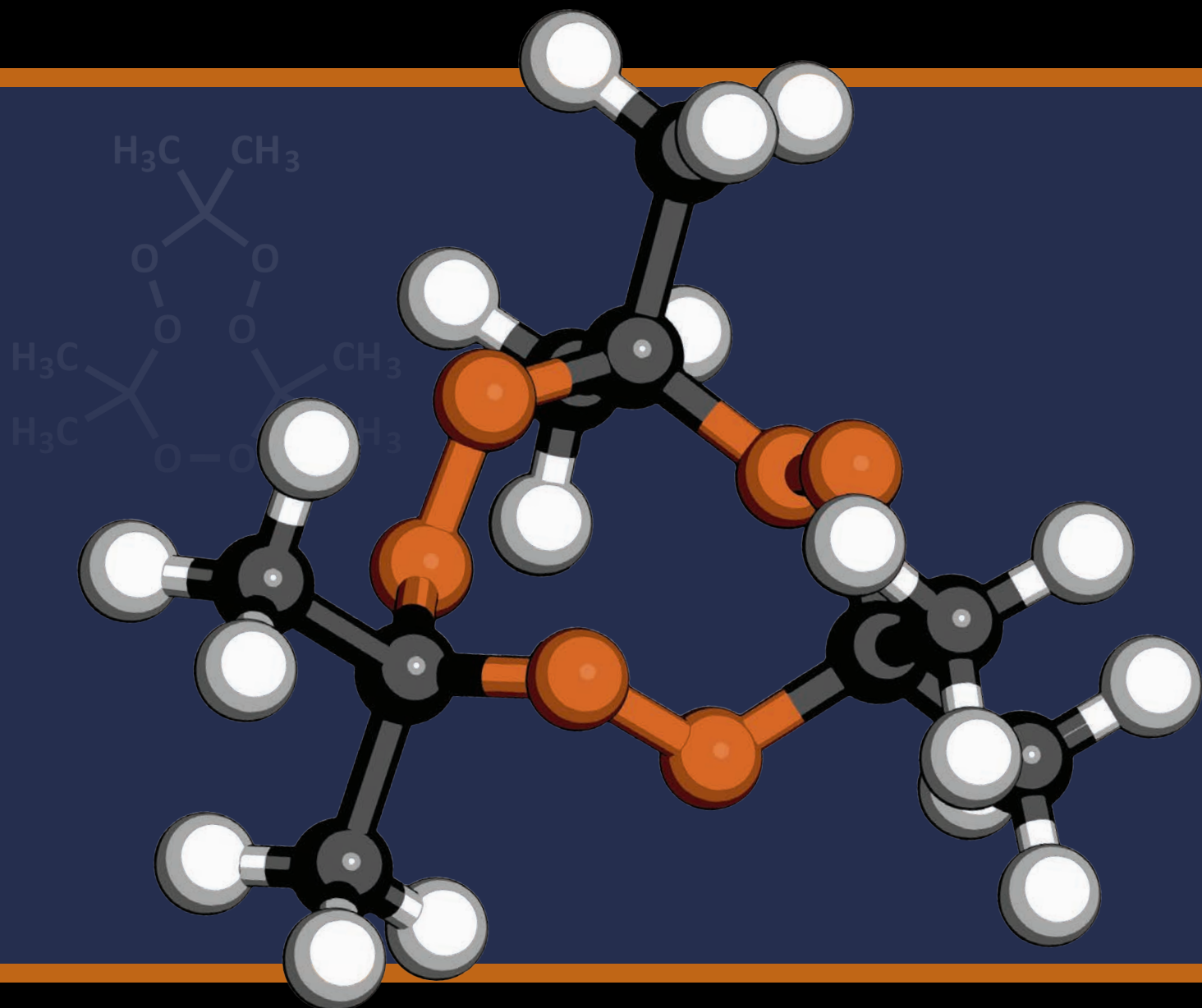


Testing and Evaluation

Facilities and Services



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science[®] LLC

*Supporting National and Homeland
Security Through Applied Science*

Independent Testing and Evaluation

Capabilities

- Licensed for the synthesis and handling of explosives, narcotics, and chemical threats including precursors and representative simulants for use as test materials and reference standards
- Fully equipped analytical laboratories to support T&E with state-of-the-art instrumentation and test beds
- Detection system verification and validation
- Various challenge conditions (indoor, outdoor, vapor, aerosol, temperature, humidity)
- Design of experiments expertise for efficient and effective test protocols
- Rigorous quality control systems and standard operating procedures to ensure reliable results
- Custom data collection requirements can be addressed with development of test equipment and data acquisition systems using LabVIEW and other engineering tools

Facilities and Equipment

- Laboratory facilities available in Austin, TX, and Charlottesville, VA
- Ample analytical laboratory and testing spaces for equipment evaluation
- Chemical analysis equipment including GC/MS, LC/MS, and LC/HRMS systems; ion chromatography; spectroscopic instruments (e.g., FTIR, UV-Vis, fluorescence)
- Vapor delivery system with temperature and humidity control for precise delivery of vapors including custom gas blends
- Aerosol test chamber for on demand testing of chemical aerosols with specific particle sizes and concentrations



Relevant Threat Testing

- ATF and DEA licenses allows for testing wide variety of target analytes
- Over 40 different fentanyl derivatives in solid or liquid form
- Aerosol testing using pharmaceutical compounds
- Safe preparation and handling of explosives, narcotics, and chemical simulants and precursor materials
- Chemical synthesis capabilities for the preparation of customized test materials



Experience

- Subject matter experts in explosives, narcotics, and chemical threats
- Over 15 years' experience in performing test and evaluation (T&E)
- Direct experience performing T&E on numerous technologies including mass spectrometers, ion mobility spectrometers, fourier transform infrared spectroscopy, raman spectroscopy, and custom collection systems
- Direct experience preparing T&E reports including data packages



Services

- Testing services for explosives, narcotics, chemical simulants, precursors, and related analytes
- Third party independent testing and evaluation
- Library generation with range determination
- Limit of detection and response curve testing
- Precision and accuracy studies
- Interferent testing
- Technology development support including redesign and engineering services
- Development and implementation of test beds
- Analytical method development and validation
- Testing according to American Society for Testing and Materials (ASTM) Standards
- Selection and preparation of reference standards for field use
- Proficiency testing development and implementation



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SELECTED CONTRACT VEHICLES

GSA

(May be used by all Federal Agencies and Departments)

Number/Name: GS-00F-105CA / Schedule Professional Services Schedule

Description: MOBIS Training (SIN 874-4) / Professional Engineering Service (SINs 871-1, 871-2, 871-3, and 871-4) / Environmental Services (SIN 899-1)

Role: Prime

CWMD OTA

Number/Name: W15QKN-18-9-1004/ Countering Weapons of Mass Destruction (CWMD) OTA

Description: An Other Transaction Agreement (OTA) for the execution of prototype projects designed to enhance mission effectiveness and to develop and mature technologies in the field of countering weapons of mass destruction, in conjunction with JPEO-CBD.

Role: Consortium Member

JE-RDAP

Number/Name: W911QY-18-D-0142-0001 / JPEO-CBD Joint Enterprise Research, Development, Acquisition and Procurement (JE-RDAP)

Description: Provide support to the JPEO-CBD and subordinate JPMs for the design, development, engineering, fielding, and procurement of CBRNE Defense Systems and Equipment.

Role: Prime



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