



Priority Action Report

Seized Drugs Subcommittee

SAC Chemistry/Instrumental Analysis
Sandra E. Rodriguez-Cruz, Ph.D. – Chair
February 14, 2017





Subcommittee Leadership

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Subcommittee Members



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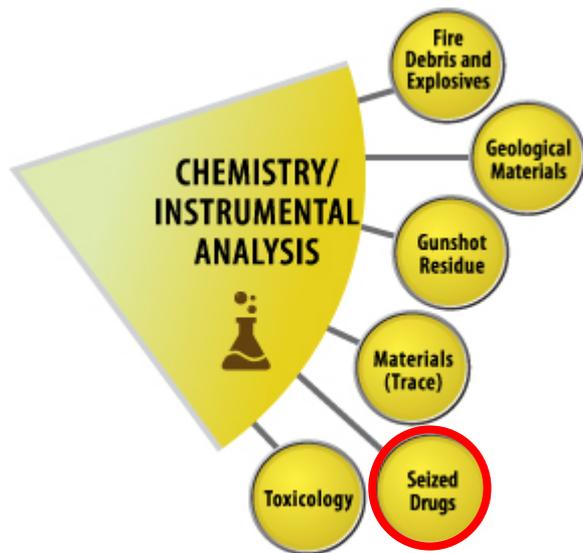
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Discipline Description



The Seized Drugs Subcommittee will focus on standards and guidelines related to the examination of evidence to identify drugs and related substances.

Summary of Priority Projects

Priority	Working Title of Document
1	<u>E2548-11</u> Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis
2	<u>E2327-15</u> Standard Practice for Quality Assurance of Laboratories Performing Seized-Drug Analysis
3	<u>E2882-12</u> Standard Guide for Analysis of Clandestine Drug Laboratory Evidence



Standards/Guidelines Development Priority 1 Document

Document Title: [E2548-11](#) Standard Guide for Sampling Seized
Drugs for Qualitative and Quantitative Analysis

Scope: Covers minimum considerations regarding the sampling of
seized-drug evidence prior to analysis

Rationale: By developing sampling strategies and implementing
appropriate sampling schemes, laboratories will minimize the
number of units requiring analysis while at the same time
ensuring that all relevant legal and scientific requirements are
met.

Issues/Concerns: - Incorrect application of sampling approaches
- Incorrect population inferences



Standards/Guidelines Development Priority 1 Document

Key Components of Standard:

- Establishes minimum criteria for laboratory sampling procedures
- Discusses different sampling issues:
 - Statistical vs non-statistical
 - Statutory limits and jurisdictions
 - Population inferences





Priority 1: Sampling Seized Drugs

Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage	Assignee	Estimated Completion Date
Public appeals process	RA-1800	FSSB	Spring 2017
Registry forms & approval to QIC	RA-2000		
OSAC Registry of Approved Standards	RA-2100	QIC	

* A revised version of this document (E2548-16) is available from SDO



Standards/Guidelines Development Priority 2 Document



Document Title: [E2327-15](#) Standard Practice for Quality Assurance of Laboratories Performing Seized-Drug Analysis

Scope: Covers quality assurance issues in forensic laboratories performing drug analysis

Objective: To be used by forensic analysts and supported by laboratory management

Goal: To provide a framework of quality in the processing of drug evidence

Task Group Name: Quality Assurance (QA)

Technical Contact: Tiffany Ribadeneyra

Technical Contact Information: tribadeneyra@nassaucountyny.gov

Date of Last Task Group Meeting: January 2016



Standards/Guidelines Development Priority 2 Document

Key Components of Standard:

- Evidence handling
- Analytical procedures
- Report writing
- Method validation
- Documentation
- Proficiency testing
- Audits
- Health and safety





Priority 2: Quality Assurance

Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage	Assignee	Estimated Completion Date
SAC Review & Vote	RA-200/300	SAC	Spring 2017
Notice of Intent & Public Comment Period	RA-400/500		
RC Review & Comments	RA-600	RC	
Comments Adjudication	RA-700	Seized Drugs	Summer 2017





Standards/Guidelines Development Priority 3 Document

Document Title: [E2882-12](#) Standard Guide for Analysis of
Clandestine Drug Laboratory Evidence

Scope: Provides guidance on the chemical analysis of items and
samples related to suspected clandestine laboratories

Objective: To ensure selected analytical schemes are fit for purpose
and provide reliable results

Issues: - Understanding of clandestine synthetic routes
- CL analysis may require non-routine approaches

Task Group Name: Clandestine Lab Analysis

Technical Contact: Christian Matchett (affiliate)

Technical Contact Information: christian.c.matchett2.civ@mail.mil

Date of Last Task Group Meeting: January 2017



Standards/Guidelines Development Priority 3 Document

Key Components of Standard:

- Terminology
- Safety issues
- Sampling of CL evidence
- Analysis
- Yield and capacity calculations
- Conclusions and reporting
- Training



Priority 3: Clan Lab Analysis

Task Group/Subcommittee Action Plan

Planned Actions	OSAC Process Stage	Assignee	Estimated Completion Date
SAC Review & Vote	RA-200/300	SAC	Spring/Summer 2017
Notice of Intent & Public Comment Period	RA-400/500		
RC Review & Comments	RA-600	RC	
Comments Adjudication	RA-700	Seized Drugs	Summer 2017



Summary of Standards/Guidelines Priority Actions

Priority	Working Title of Document
1	<u>E2548-11</u> Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis
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Standards/Guidelines Reviewed For Technical Merit

Title	Developing Organization	Status*	OSAC Process Stage
<u>E2764-11</u> : Standard Practice for Uncertainty Assessment in the Context of Seized-Drug Analysis	ASTM	SDO revision	---
<u>E1968-11</u> : Standard Guide for Microcrystal Testing in Forensic Analysis of Cocaine	ASTM	SDO revision	---
<u>E1969-11</u> : Standard Guide for Microcrystal Testing in Forensic Analysis of Methamphetamine and Amphetamine	ASTM	Evaluation	---
<u>E2125-11</u> : Standard Guide for Microcrystal Testing in Forensic Analysis of Phencyclidine and Its Analogues	ASTM	Evaluation	---



Research & Development Needs Identified

- Acceptance Criteria for Instrumental Data related to Qualitative Seized Drug Analysis
 - Goal: To develop interpretation strategies that allow consistent conclusions to be drawn from qualitative instrumental data.
- Error rates in Qualitative Methods of Analysis
 - Goal: To quantitatively evaluate error rates associated with individual qualitative methods of analysis, as well as with analytical schemes that combine multiple methods of analysis.

Current Working Item(s)

- Standard Guide for the Interpretation of GC-MS Data of Seized Drugs
 - Subcommittee project
 - **First draft:** David Gouldthorpe, Tom Brettell, Glen Jackson, and David Koppenhaver
 - Future individual task groups to address specifics
- State of the Discipline Documents
 - **Task group:** Claire Dragovich, Jason Bory, Gina Nano, Jason Nawyn, Annie Smith, and Ruth Smith

Additional Items of Interest

- **Seized Drugs** Representatives to SAC Interdisciplinary Groups :
 - Terminology
 - Proficiency Testing
 - Education/Training
 - Quality Assurance

Seized
Drugs





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