



ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO: ISO/IEC 17025:2005

ANAB 17025:2005 Forensic Science Testing Laboratories Accreditation Requirements:2017
FBI Quality Assurance Standards for Forensic Testing Laboratories:2011
FBI Quality Assurance Standards for DNA Databasing Laboratories:2011

Virginia Department of Forensic Science Central Laboratory

700 North 5th Street
Richmond, Virginia 23219

FORENSIC TESTING

Valid to: September 30, 2022

Certificate Number: FT-0051

Discipline: Biology			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Forensic Biology Screening and Collection Manual	Physical Evidence	Refer to Method
Body Fluid Identification	Forensic Biology Screening and Collection Manual	Blood, Semen, Urine	Refer to Method
DNA-STR	Flexible Scope ¹	Blood, Semen, Saliva, Epithelial Cells, Teeth, Bone, Hair, Tissue	Robotic System, Organic Extraction, Data Interpretation System
DNA-YSTR	Flexible Scope ¹	Blood, Semen, Saliva, Epithelial Cells, Teeth, Bone, Hair, Tissue	Robotic System, Organic Extraction, Data Interpretation System
DNA-Mitochondrial	Flexible Scope ¹	Bone, Teeth, Hair, Blood, Saliva, Tissue	Robotic System, Organic Extraction, Data Interpretation System
DNA Relationship Testing	Flexible Scope ¹	Blood, Semen, Saliva, Epithelial Cells, Teeth, Bone, Hair, Tissue	Robotic System, Organic Extraction, Data Interpretation System
Individual Characteristic Database	DNA Data Bank Operating Policies and Procedures Manual	DNA profiles	Combined DNA Index System (CODIS)



Discipline: Digital Evidence			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Digital Multimedia Evidence Procedures Manual Section 3	Physical or Digital Evidence	Refer to Method
Preservation	Flexible Scope ¹	Physical or Digital Evidence	Refer to Method
Acquisition/Extraction	Flexible Scope ¹	Digital Data	Refer to Method
Analysis	Flexible Scope ¹	Digital Data	Refer to Method

Discipline: Firearms and Toolmarks			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Firearm/Toolmark Procedures Manual (FX-TM) Sections 1-4	Physical Evidence	Refer to Method
Physical Comparison	FX-TM Section 8	Firearms, Firearm Components, Toolmark, Toolmark Components	Comparison Microscope, Stereo Microscope
Product (Make/Model) Determination	FX-TM Section 5	Firearms, Firearm Components	General Rifling Characteristics (GRC) Database
Serial Number Restoration	FX-TM Section 9	Physical Evidence	Refer to Method
Distance Determination	FX-TM Section 7	Firearm, Firearm Components	Refer to Method
Length Measurement	FX-TM Section 1	Firearm	Refer to Method
Individual Characteristic Database	FX-TM Section 6	Firearm, Firearm Components	National Integrated Ballistic Information Network (NIBIN)



Discipline: Fire Debris and Explosives			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Qualitative Determination	Flexible Scope ¹	Ignitable Liquids, Explosives, Fire Debris	Gas Chromatography, Mass Spectrometry, Infrared Spectroscopy, Ion Chromatography, X-ray Powder Diffraction (XRD), Scanning Electron Microscopy (SEM), Energy Dispersive Spectroscopy (EDS)

Discipline: Friction Ridge			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Latent Print Procedures Manual Sections 3, 4, 5, 6, 7, 8, 9, 10	Physical Evidence	Photography, Adhesive Lift
Enhancement	Latent Print Procedures Manual Sections 3, 4, 5, 6, 7, 8, 9	Patent, Latent, Plastic	Visual (e.g. Mideo Systems Inc. and Adobe Photoshop) Photography, Physical, Chemical
Physical Comparison	Latent Print Procedures Manual Sections 11, 15	Patent, Latent, or Plastic to a Known; Known to Known; Unknown to Unknown	Refer to Method
Individual Characteristic Database	Latent Print Procedures Manual Section 12	Patent, Latent, Plastic or a Known	VA Automated Fingerprint Identification System (AFIS), Next Generation Identification (NGI)

Discipline: Footwear/Tire			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Impressions-Footwear and Tire Tread Procedures Manual Section 3	Footwear /Tire Impression	Electrostatic, Adhesive, Photography
Enhancement	Impressions-Footwear and Tire Tread Procedures Manual Section 3	Footwear /Tire Impression	Visual, Photography, Physical, Chemical
Physical Comparison	Impressions-Footwear and Tire Tread Procedures Manual Section 6	Footwear /Tire Impression	Refer to Method



Product (Make/Model) Determination	Impressions-Footwear and Tire Tread Procedures Manual Section 7	Footwear /Tire Impression	Reference Material Search
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Discipline: Gunshot Residue			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Trace Evidence Procedures Manual Section 10	Physical Evidence	Refer to Method
Qualitative Determination	Trace Evidence Procedures Manual Section 10.5	Gunshot Residue	Scanning Electron Microscopy (SEM), Energy Dispersive Spectroscopy (EDS)

Discipline: Materials (Trace)			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Trace Evidence Procedures Manual Sections 2, 3, 6, 7, 8, 9	Physical Evidence	Refer to Method
Physical Determination	Flexible Scope ¹	Fiber/Textiles, Glass, Hair, Paint, Tape, General Unknowns, Vehicle Lamps	Microscopy, Gas and Ion Chromatography, Mass Spectrometry, Infrared Spectroscopy, Microspectrophotometry, Scanning Electron Microscopy (SEM), Energy Dispersive Spectroscopy (EDS), X-ray Powder Diffraction (XRD), Refractive Index
Chemical Determination	Flexible Scope ¹	Fiber/Textiles, Glass, Paint, Tape, General Unknowns, Vehicle Lamps	Gas and Ion Chromatography, Mass Spectrometry, Infrared Spectroscopy, Microspectrophotometry, Scanning Electron Microscopy (SEM), Energy Dispersive Spectroscopy (EDS), X-ray Powder Diffraction (XRD)



Physical/Chemical Comparison	Trace Evidence Procedures Manual Sections 3, 5, 6, 7, 9	Fiber/Textiles, Glass, Paint, Tape, General Unknowns	Microscopy, Gas and Ion Chromatography, Mass Spectrometry, Infrared Spectroscopy, Microspectrophotometry, Scanning Electron Microscopy (SEM), Energy Dispersive Spectroscopy (EDS), X-ray Powder Diffraction (XRD), Refractive Index
Product (Make/Model) Determination	Trace Evidence Procedures Manual Section 9	Automotive Paint	Paint Data Query (PDQ) Database

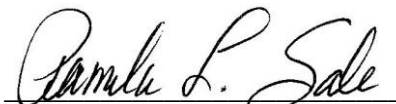
Discipline: Seized Drugs			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Qualitative Determination	Flexible Scope ¹	Solid, Liquid, Botanical	Microscopic Exam, Color Spot Test, Thin Layer Chromatography, Infrared and Ultraviolet Spectroscopy, Gas and Liquid Chromatography, Mass Spectrometry
Quantitative Determination	Flexible Scope ¹	Solid, Liquid, Botanical	Gas and Liquid Chromatography, Ultraviolet Spectroscopy
Weight Measurement	Controlled Substances Procedures Manual Section 4	Solid, Botanical	Balance

Discipline: Toxicology			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Qualitative Determination	Flexible Scope ¹	Blood, Serum, Urine, Vitreous, Bile, Gastric Contents, Tissues	Immunoassay, Gas and Liquid Chromatography, Ultraviolet/Visible Spectroscopy, Mass Spectrometry
Quantitative Measurement	Flexible Scope ¹	Blood, Serum, Urine, Vitreous, Bile, Gastric Contents, Tissues	Gas and Liquid Chromatography, Mass Spectrometry



Discipline: Video/ Imaging Technology and Analysis			
Component/Parameter or Characteristic Tested	Test Method	Items Tested	Key Equipment or Technology
Collection	Flexible Scope ¹	Video	Refer to Method
Preservation	Flexible Scope ¹	Video	Refer to Method
Acquisition/Extraction	Flexible Scope ¹	Video	Refer to Method
Analysis	Flexible Scope ¹	Video	Refer to Method
Enhancement	Flexible Scope ¹	Video	Refer to Method

Note 1: A flexible scope has been granted for this component/parameter or characteristic tested. ANAB has assessed the competence required to develop, validate, and perform quality assurance within this provided service. New or modified methods for the item(s) and equipment/technology(ies) listed in this row on the Scope of Accreditation may be introduced. New measurement principles, item(s), and technology(ies) will require evaluation by ANAB prior to granting a scope extension. Contact the forensic service provider for information on the specific test method in use at any point in time and utilized for accredited testing work.



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