


Schedule of Accreditation

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United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 1873 Accredited to ISO/IEC 17025:2017	Scottish Police Authority Forensic Services	
	Issue No: 066 Issue date: 31 July 2025	
	Scottish Crime Campus Craignethan Drive Gartcosh Scotland G69 8AE	Contact: Craig Donnachie Tel: +44 (0) 1236 818108 E-Mail: craig.donnachie@spa.police.uk Website: www.spa.police.uk
Testing performed by the Organisation at the locations specified		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Scottish Crime Campus Craignethan Drive Gartcosh Scotland G69 8AE	Contact: Craig Donnachie Tel: +44 (0) 1236 818108 E-Mail: Craig.donnachie@spa.police.uk Website: www.spa.police.uk	Forensic Analysis Quality Management G
Address Rushton Court 3 West Victoria Dock Road Dundee DD1 3JT	Contact: Craig Donnachie Tel: +44 (0) 1236 818108 E-Mail: Craig.donnachie@spa.police.uk Website: www.spa.police.uk	Forensic Analysis D
Address 11 Howden Hall Road Edinburgh EH16 6TL	Contact: Craig Donnachie Tel: +44 (0) 1236 818108 E-Mail: Craig.donnachie@spa.police.uk Website: www.spa.police.uk	Forensic Analysis E
Address Nelson Street Aberdeen AB24 5EQ	Contact: Craig Donnachie Tel: +44 (0) 1236 818108 E-Mail: Craig.donnachie@spa.police.uk Website: www.spa.police.uk	Forensic Analysis A
Address Moore Park J24 Business Park 357 Helen Street Glasgow G51 3AD	Contact: Craig Donnachie Tel: +44 (0) 1236 818108 E-Mail: Craig.donnachie@spa.police.uk Website: www.spa.police.uk	Forensic Analysis M



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p><u>CJ Line</u> Saliva Swabs (buccal cells)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>DNA Profiling: Short Tandem Repeat (STR) DNA profiling for forensic analysis of:</p> <ul style="list-style-type: none"> - Subject Samples - Elimination Database samples (VED/SED and PED) - Subject Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database <p><u>Related Opinions and Interpretation</u> Interpretation of DNA profiles generated internally from crime stains (single source) and reference samples</p>	<p>Documented in house methods using manual/automated extraction</p> <ul style="list-style-type: none"> - Prep-n-go - Chelex (manual extraction – hairs only) <p>Documented in house Methods using manual/automated amplification (PCR) and the following chemistry:</p> <ul style="list-style-type: none"> - GlobalFiler Express (CJ) <p>Documented in house Methods using Electrophoresis</p> <ul style="list-style-type: none"> - Applied Biosystems 3500xL Genetic Analyser© <p>Documented in house Methods using GMIDX v1.6</p>	<p>D</p> <p>D</p>



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p><u>HID Samples</u> Blood</p> <ul style="list-style-type: none"> - Whole - Stains <p>Hair Body Tissue</p> <ul style="list-style-type: none"> - Muscle - Bone - Teeth 	<p><u>Relationship Analysis</u></p> <p>Short Tandem Repeat (STR) DNA profiling for relationship testing for:</p> <ul style="list-style-type: none"> - Paternity - Maternity <p>Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)</p>	<p>Documented in house Methods using manual extraction</p> <ul style="list-style-type: none"> - QIAMP DNA Mini kit - QIAMP DNA Blood maxi kit <p>Documented in house Methods using manual quantification</p> <ul style="list-style-type: none"> - Quantifiler Trio <p>Documented in house Methods using manual amplification and the following chemistry:</p> <ul style="list-style-type: none"> - Globalfiler <p>Documented in house Methods using Electrophoresis</p> <ul style="list-style-type: none"> - Applied Biosystems 3500xL Genetic Analyser© <p>Documented in house Methods using</p> <ul style="list-style-type: none"> - GMIDX v1.6 	<p>D</p> <p>D</p>



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Blood - Stains</p> <p>Semen - Whole - Azoospermic</p> <p>Saliva - Whole - Stains - Swabs (buccal cells)</p> <p>Hair</p> <p>Cellular Material</p> <p>Touch DNA</p> <p>Body Tissue - Muscle</p>	<p><u>Forensic Analysis</u></p> <p>DNA Profiling: Y - Short Tandem Repeat (Y-STR) DNA profiling for forensic analysis of:</p> <ul style="list-style-type: none"> - Crime Scene Samples - Subject Samples (Reference and Volunteer) - Elimination Database samples (VED/SED) <p><u>Related Opinions and Interpretation</u> Interpretation of DNA profiles generated internally from crime stains (single source/major/minor mixtures/complex mixtures) and reference samples. Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated (SPA FS) or from other accredited laboratories)</p>	<p>Documented in house methods using manual PCR & amplification using the following chemistry: - Powerplex Y23</p> <p>Documented in house Methods FS-BIO-0204 and FS-BIO-0205 using manual and automated quantification - Quantifiler Trio</p> <p>Documented in house Methods using Electrophoresis - Applied Biosystems 3500xL Genetic Analyser©</p> <p>Documented in house Methods Using - GMIDX v1.6 - YHRD</p>	<p>G, D</p> <p>A, D, E, G</p>



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Any material	Searching for: - Blood - Semen - Saliva - Hairs	Documented in house Methods using - visual examination - Low power microscopy - High power microscopy - Chemical testing (see below)	G, D, A, E
Any Material	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials and swabs - Blood - Semen - Saliva - Hairs - Cellular Material	Documented in house Methods using - cutting - swabs and swabbing - extraction of stained materials - extraction of swabs - taping - mini-taping - Proteinase K	G, D, A, E
Blood	Presumptive testing for Blood via detection of - Peroxidase	Documented in house Methods using: - visual examination - KM (Kastle Meyer)	G, D, A, E
	<u>Related Opinions and Interpretations</u> Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory	Documented in house Methods using: - visual examination - Low power microscopy	G, D, A, E
Semen	Presumptive testing for seminal fluid via detection of: - Acid Phosphatase	Documented in house Methods using: - visual examination - Acid Phosphatase detection (colour reaction)	G, D, A, E



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<p>BODY FLUIDS and TISSUES - TOXICOLOGY</p> <p>Blood (Preserved, Unpreserved)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Detection and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 and Scottish Statutory Instrument no 83 (Cut-Off) [Concentration Range]:</p> <p>Amphetamine (250 ug/L); [100-1500ug/L] Benzoyllecgonine(50 ug/L); [10-1000ug/L] Clonazepam (50 ug/L); [5-400ug/L] Cocaine (10 ug/L); [2.5-200ug/L] Diazepam (550 ug/L); [100-1500ug/L] Flunitrazepam (300 ug/L); [100-1500ug/L] Ketamine (20 ug/L); [2.5-200ug/L] Lorazepam (100ug/L); [5-400ug/L] Lysergic Acid Diethylamide – LSD (1ug/L); [0.5-40ug/L] Methadone (500 ug/L); [100-1500ug/L] Methylamphetamine (10 ug/L); [2.5-200ug/L] Methylendioxyamphetamine – MDMA (10 ug/L); [2.5-200ug/L] 6-Monoacetylmorphine (5ug/L); [0.5-40ug/L] Morphine (80 ug/L); [5-400ug/L] Oxazepam (300 ug/L); [100-1500ug/L] Temazepam (1000 ug/L); [100-1500ug/L]</p> <p>Detection and quantitation of drugs (Cut-Off); [Concentration Range]:</p> <p>Etizolam (50 ug/L); [10-1000ug/L]</p>	<p>Documented in house methods FS-PHY-0735 using</p> <ul style="list-style-type: none"> - supported liquid extraction - Agilent Ultivo B1 and B2 LC-MS/MS <p>Documented in house methods FS-PHY-0735 using</p> <ul style="list-style-type: none"> - supported liquid extraction <p>Agilent Ultivo B1 and B2_LC-MS/MS</p>	<p>E</p> <p>E</p>



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BODY FLUIDS and TISSUES – TOXICOLOGY (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Blood (Preserved, Unpreserved)	Detection and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 and Scottish Statutory Instrument no 83 (as amended) (Cut-off); [Concentration Range]: Cannabis Group : Delta-9-Tetrahydrocannabinol – (THC) (2.0µg/L); [1-25µg/L]	Documented in house (FS-PHY-0767) using: - Supported liquid extraction - Waters TQ-S LCMSMS	E
Blood (Preserved, Unpreserved)	Detection and quantitation of drugs (Cut-off); [Concentration Range]: Metabolites: 11-Hydroxy-Delta-9-Tetrahydrocannabinol (THC-OH) (2µg/L); [1-25µg/L] 11-Nor-9-Carboxy-Delta-9-Tetrahydrocannabinol (THC-COOH) (20µg/L); [10-250µg/L]	Documented in house (FS-PHY-0767) using: - Supported liquid extraction - Waters TQ-S LCMSMS	E
Blood, Urine (Preserved, Unpreserved)	Detection and quantitation of the following in relation to Post Mortem Toxicology (Lower limit of Quantification); [Concentration Range]: Ethanol (25mg/100mL); [10-500mg/100ml]	Documented in house method FS-PHY-1017 using using Headspace GC-Dual FID instrumentation	M
DAMAGE	<u>Forensic Analysis</u>		
Damage (Clothing and Fabric material)	<u>Related Opinions and Interpretations</u> Examination, assessment and evaluation of a damage item, comparison of damage with suspected instrument (excluding firearms) to determine the likelihood the suspected instrument caused the damage	Documented in house Methods using: - visual examination - Microscopy	G, D, A, E



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DOCUMENTS	<u>Forensic Analysis</u> (cont'd)		
Handwriting (Roman Script)	The examination of submitted items to compare handwriting from known and suspect sources to establish links and/or authorship <u>Opinions and Interpretation</u> The evaluation of the significance of any similarities and differences between the handwriting on submitted items and/or suspect/reference sources to determine the likelihood of them being written by the same/different individuals.	Documented in house method using - visual examination - low power microscopy	G
Signatures	The examination of submitted items to compare signatures from known and suspect sources to establish links and/or authorship <u>Opinions and Interpretation</u> The evaluation of the significance of any similarities and differences between signatures on submitted items and/or suspect/reference sources to determine the likelihood of them being written by the same/different individuals.	Documented in house method using - visual examination - low power microscopy	G
Paper and other material	Detection and enhancement of indented marks made by handwriting	Documented in house method using - oblique lighting - low power microscopy - ESDA	G
Documents	Detection of alterations and decipherment of altered or obliterated entries - Paper examinations - Photocopying	Documented in house method using - visual examination - lighting techniques - microscopy - VSC6000	G



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<p>DRUGS (and materials suspected of containing drugs)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</p> <p>Identification of Cannabis and cannabis resin</p> <p>Identification of</p> <ul style="list-style-type: none"> - Amphetamine - Cocaine - Diamorphine - MDMA <p>Quantification of</p> <ul style="list-style-type: none"> - Amphetamine - Diamorphine - Cocaine <p>Identification of characteristically marked proprietary pharmaceuticals, illicit copies and other drugs products</p>	<p>Documented in house method using</p> <ul style="list-style-type: none"> - FS-PHY-0002 microscopy - FS-PHY-0008 thin-layer chromatography (TLC) - FS-PHY-0037 gas chromatography mass spectrometry GC-MS <p>Documented in house method using</p> <ul style="list-style-type: none"> - FS-PHY-0003 spot tests (Marquis reagent/Modified Scott reagent) (D only) - FS-PHY-0037 GC-MS <p>Documented in house method using</p> <ul style="list-style-type: none"> - FS-PHY-0043 HPLC <p>Documented in house method using</p> <ul style="list-style-type: none"> - FS-PHY-0005 visual comparison of appearance, markings - dimensions with reference materials, data collections and descriptions in authoritative texts - TICTAC - FS-PHY-0037 GCMS 	<p>G, D</p> <p>G, D</p> <p>G, D</p> <p>G, D</p>



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FIREARMS Ammunition	<u>Forensic Analysis</u> (cont'd)		
	Examination of discharged ammunition components to determine the number of guns used	Documented in house method using - comparison microscopy	G
	Examination of cartridges to determine if ammunition has been loaded into a firearm	Documented in house method using - comparison microscopy	G
	Comparison of spent ammunition to suspect guns	Documented in house method using - comparison microscopy	G
	Ammunition and component identification and legal classification	Documented in house method using - weighing - microscopy - length measurement - use of known samples or standard reference data	G
FIREARMS	Firearm and firearm component part identification and legal classification (Firearms Act 1968)	Documented in house method using comparison with known samples, reference standards and publications	G
	Trigger pull measurement	Documented in house method using - dead weights	G
	Determination of Kinetic Energy of projectiles	Documented in house method using - balance and chronograph	G
	Accidental discharge	Documented in house method using - impact and drop tests	G



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FIREARMS (cont'd)	<u>Forensic Analysis</u> (cont'd)		
	Range of fire determination	Documented in house method using test firing with appropriate weapon/ammunition combination and target material to assess range of fire. Comparison of test patterns to exhibits/productions	G
	Test firing to assess the functionality of weapons and/or ammunition	Documented in house method using suspect or reference guns and ammunition	G
	Test firing to generate test samples of ammunition for comparison to exhibits/productions	Documented in house method using suspect or reference guns and ammunition	G
Electric Shock Devices	Identification, classification and function test	Documented in house method using visual examination, function testing and measurement of spark gap	G
Ammunition	Comparison of spent ammunition to suspect guns	Supplier to NABIS using documented In house methods using - IBIS bullet Trax HD3D - IBIS Brass TRax - IBIS Matchpoint Plus	G
GUN SHOT RESIDUE (GSR/FDR)	<u>Forensic Analysis</u>		
Clothing/items from both subjects and loci, FDR Recovery Kits, cartridge cases and bullets	Recovery of in-organic gun shot residues (primer)	Documented in house method using - carbon coated aluminium stubs - taping - swabbing	G
Recovered material	Identification of in-organic gun shot residues (primer) - Lead - Lead Free	Documented in house method (FS-PHY-0363 and FS-PHY-0396) using - SEM/EDX	G



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<p>FLAMMABLE LIQUIDS (FIRE ACCELERANTS)</p> <p>Material recovered from and associated with Fire Scenes</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Recovery of potential fire accelerants</p> <p>Analysis and identification of common fire accelerants:</p> <ul style="list-style-type: none"> - Petrol - Paraffin - Turpentine substitute - White spirit - Diesel - Alcohols (ethanol) <p>Examination and analysis of the following flammable liquids</p> <ul style="list-style-type: none"> - Petrol - Paraffin - Turpentine substitute - White spirit - Diesel - Alcohols (ethanol) 	<p>Documented in-house method (FS-PHY-0204) using</p> <ul style="list-style-type: none"> - Absorption tubes (TENAX) <p>Documented in house method (FS-PHY-0204 and FS-PHY-0221) using</p> <ul style="list-style-type: none"> - ATD-GCMS <p>Documented in house methods (FS-PHY-0204 and FS-PHY-0221) using</p> <ul style="list-style-type: none"> - ATD-GCMS 	<p align="center">G</p>
<p>GLASS</p>	<p><u>Forensic Analysis</u></p> <p>Search and Recovery of glass fragments from clothing and objects</p>	<p>Documented in house methods using</p> <ul style="list-style-type: none"> - visual examination - recovery using brushing and packaging blanks 	<p align="center">G</p>



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<p>MARKS AND IMPRESSIONS (cont'd)</p> <p>Fingermarks Any material which is capable of retaining friction ridge marks (cont'd)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Enhancement of fingermarks and palm marks (cont'd)</p>	<p>Documented In-House Methods using visual and lighting enhancement techniques:</p> <ul style="list-style-type: none"> - Visual examination - White and filtered sources - High intensity light sources: Crimelite 82s Uv ($\lambda=350-380\text{nm}$) Blue ($\lambda=420-470\text{nm}$) Laser Innovations Revelation Laser ($\lambda=532\text{nm}$) (only G and D) Copper Tree SGL-7 Laser($\lambda=532\text{nm}$) <p>Documented In-House Methods for imaging / digital capture</p> <ul style="list-style-type: none"> - DCS5 	<p>G, D, A, E</p> <p>G, D, A, E</p>
<p>Developed fingerprint marks</p>	<p>Determination of the presence of friction ridge characteristics for the purpose of subsequent comparison</p>	<p>Documented In-House methods using visual examination, low power microscopy</p>	<p>G, D, A, E</p>



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PAINTS	<u>Forensic Analysis</u> (cont'd) Search and Recovery of paint and paint fragments from clothing and objects for analysis	Documented in house Method (FS-PHY-0262) using - visual examination - Low power microscopy - Brushing - Scalpel recovery of paint deposits	G
	Comparison of control and recovered samples	Documented in house methods using - high power comparison microscopy (FS-PHY-0275) - FTIR (FS-PHY-0278) - SEM (FS-PHY-0373)	G
VEHICLE COMPONENTS	<u>Forensic Analysis</u>		
Wheel assemblies removed from vehicles (Tyres)	Examination of wheel assemblies and constituent parts of wheel assemblies (rims, tyres, inner tubes)	Documented in house method (FS-PHY-0102) using - visual examination - length measurement - pressure measurement	G
	Identification of damage and defects - Measurement of tread depth - Measurement of valve back pressure	Documented in house method (FS-PHY-0102) using - visual examination - length measurement - pressure measurement	G



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<p>BODY FLUIDS</p> <p>Blood (Preserved/Unpreserved) Urine (Preserved/Unpreserved)</p> <p>Alcohol Technical Defence (in relation to RTA and sexual offences) for sample matrix including breath/blood/urine</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Detection and quantification of alcohol in relation to the 1988 Road Traffic Offenders Act</p> <ul style="list-style-type: none"> • minimum quantification level: 10 mg/100 ml (mg%) • range of quantitative analysis: 10 – 500 mg% <p><u>Related Opinions and Interpretations</u></p> <p>Estimation of alcohol consumption and elimination with respect to validity of drinking patterns:</p> <ol style="list-style-type: none"> 1) Effect of alleged post accident alcohol consumption on measured breath/body fluids alcohol levels 2) Effect of alleged spiked drink 3) Back calculations of breath/body fluid alcohol levels to the time of accident or other incident from 8.3 µg% / 20mg% / 27mg% and above 	<p>Documented in house Methods (FS-PHY-0706, FS-PHY-0707, FS-PHY-0708 & FS-PHY-0716) using</p> <ul style="list-style-type: none"> - Headspace GC-FID <p>Documented in house methods (FS-PHY-0704 & FS-PHY-0724) using mathematical calculations.</p>	<p>E</p> <p>E</p>
<p>FIBRES</p>	<p><u>Forensic Analysis</u></p> <p>Recovery of fibres for contingency purposes from clothing and objects</p>	<p>Documented in house Methods using:</p> <ul style="list-style-type: none"> - Visual examination - taping, - low power microscopy - mounting 	<p>A, D, G, E</p>



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<p>FIBRES (cont'd)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Search and recovery of fibres from clothing and objects for analysis (including tapings)</p> <p>Identification of fibre type</p> <p>Comparison of fibre</p> <p>Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres</p> <p><u>Opinion and Interpretation</u> The evaluation of the significance of any matching features between the suspect and reference/control fibre to determine the likelihood of the suspect fibre coming from a specific source</p>	<p>Documented in house Methods using:</p> <ul style="list-style-type: none"> - visual examination - low power microscopy and screening - fibre recovery (taping) <p>Documented in house Methods using:</p> <ul style="list-style-type: none"> - Polarised light microscopy - FTIR <p>Documented in house Methods using:</p> <ul style="list-style-type: none"> - Stereo microscopy - Polarised light microscopy - Comparison microscopy <p>Documented in house Methods using:</p> <ul style="list-style-type: none"> - UV and visible microspectrophotometry <p>Documented in house Methods</p>	<p>A, D, G, E</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p>
<p>HAIRS</p>	<p>Differentiation of Human and Animal hairs</p>	<p>Documented in house Methods using:</p> <ul style="list-style-type: none"> - Visual examination - Low power microscopy - High power microscopy 	<p>A</p>



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<p>FRICITION RIDGE DETAIL</p> <p>Finger and Palm (Non-Cadaver)</p> <p>Marks</p> <ul style="list-style-type: none"> - CSI/FEL Recovered Lifts from physical scenes - CSI/FEL Photographs of marks from physical scene - Fingerprint Enhancement Laboratory Recovered Lifts from physical items - Fingerprint Enhancement Laboratory Photographs of marks from physical items - Fingerprint Enhancement Laboratory Digital images of marks from physical items 	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Analysis, comparison, and evaluation of Friction Ridge Detail as outlined below for the purpose of:</p> <ul style="list-style-type: none"> - Criminal Investigation - Elimination Databases <p>Comparison with Ten Print</p> <ul style="list-style-type: none"> - Ink - Powder - Livescan 	<p>Documented in house procedures utilising automated search techniques for initial screening to identify candidate items to go forward for manual comparison:</p> <ul style="list-style-type: none"> - Ident 1 - High Quality Printer - Reference collections <p>Documented in house procedures using visual manual techniques:</p> <ul style="list-style-type: none"> - Fingerprint glass - Reference collections - Comparators (digital/optical) - High Quality Printer 	<p>G, D, A, E</p> <p>G, D, A, E</p> <p>G, D, A, E</p>



Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Scottish Police Authority
Forensic Services
Issue No: 066 Issue date: 31 July 2025

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>FRICITION RIDGE DETAIL</p> <p>Finger and Palm (Non-Cadaver) (cont'd)</p> <p>Ten Prints</p> <ul style="list-style-type: none"> - Ink - Powder - Livescan 	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Analysis, comparison, and evaluation of Friction Ridge Detail as outlined below for the purpose of:</p> <ul style="list-style-type: none"> - Criminal Investigation - Elimination Databases <p>Comparison with Marks</p> <ul style="list-style-type: none"> - CSI/FEL Recovered Lifts from physical scenes - CSI/FEL Photographs of marks from physical scenes - Fingerprint Enhancement Laboratory Recovered Lifts from physical items - Fingerprint Enhancement Laboratory photographs of marks from physical exhibits - Fingerprint Enhancement Laboratory Digital images of marks from physical items <p><u>Opinion and Interpretation</u></p> <p>The evaluation of the significance of any matching and non-matching features between sources of friction ridge detail as outlined in the above scope of accreditation.</p>	<p>Documented in house procedures using visual manual techniques:</p> <ul style="list-style-type: none"> - Fingerprint glass - Reference collections - Comparators (digital/optical) - High Quality Printer <p>Documented In-House methods using</p> <ul style="list-style-type: none"> - Personal experience - database 	<p>G, D, A, E</p> <p>G, D, A, E</p>
<p>END</p>			