


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Forensic Science Northern Ireland</h3> <p>Issue No: 025      Issue date: 22 November 2011</p>	
	<p>151 Belfast Road Carrickfergus Co Antrim Northern Ireland BT38 8PL</p>	<p>Contact: Quality Manager Tel: +44 (0)28 9036 1888 Fax: +44 (0)28 9036 1900 E-Mail: forensic.science@fsni.gov.uk Website: www.fsni.gov.uk</p>
<p>Testing performed at the above address only</p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>ACCELERANTS</b></p> <p>Gas, liquid and solid materials, debris from household and commercial fires</p>	<p><u>Forensic Analysis</u></p> <p>Identification of trace quantities of common fire accelerants: petrol paraffin diesel white spirit</p>	<p>Documented In-House Methods TP 2101, TP 2102, TP 2103 using GC-FID TP 2117, TS 2111, TP 2116 and TS 2112 using GC-MS</p>
<p><b>AMMUNITION</b></p> <p>Fired bullets, cartridge cases, rounds of ammunition, wadding, baton rounds, airgun pellets and other projectiles associated with firearms; up to and including 0.5"/12.7 mm calibre</p>	<p><u>Forensic Analysis</u></p> <p>Identification and comparison of firing and loading marks</p>	<p>Documented In-House Methods TP 3015-3016 using test firing and comparison microscopy</p>
<p><b>ANY MATERIAL or OBJECT</b></p>	<p><u>Forensic Analysis</u></p> <p>Detection and identification of trace quantities of: Blood Saliva Semen</p>	<p>Documented In-House Methods TP 4023 TP 4026-4027 TP 4029-4030 TP 4037 TP 4043-4044</p>
<p><b>ANY MATERIAL, OBJECT OR PERSON</b> suspected of being associated with explosives and firearms residues</p>	<p><u>Forensic Analysis</u></p> <p>Identification of trace quantities of explosives</p>	<p>Documented In-House Methods TP 2002-2009 using GC/TEA, HPLC/ECD</p>



1497  
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<b>BODY FLUIDS</b>  Blood Urine	<u>Forensic Analysis</u>  Alcohol content	Documented In-House Method TP 1013 using Headspace GC/FID analysis including the Clarus 500 system
<b>DOCUMENTS</b>  Handwriting, signatures, typescript, photocopies, laser printing, printed material, paper	<u>Forensic Analysis</u>  Visual examination and comparison. Investigation of obliterations and alterations to documents.	Documented In-House Methods TP 5603-5613 using microscopy, VSC and ESDA
<b>FIBRES</b>  Vegetable, animal and man-made fibres	<u>Forensic Analysis</u>  Recovery of fibres from clothing and objects Comparison of fibres	Documented In-House Methods TP 4007, TP 4008, TP 4009, TP 4010, TP 4015, TP 4016 and TP 4017 using microscopy, TLC, MSP and IR analysis
<b>FINGERPRINTS</b>  Surface on vehicles, documents, plastics, glass and other objects	<u>Forensic Analysis</u>  Enhancement and lifting of marks Visual identification	Documented In-House Methods TP 5501 TS 5501 using physical and chemical methods, incident lighting, fluorescence enhancement and photography
<b>FIREARMS and COMPONENTS</b>	<u>Forensic Analysis</u>  Physical tests, identification, function tests	Documented In-House Methods TP 3017 TS 3009 using identification and comparison with reference materials and literature



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<p>HUMAN BODY FLUIDS and TISSUES Blood Hair Buccal cells</p>	<p><u>Forensic Analysis</u></p> <p>DNA Profiling:  Analysis of Short Tandem Repeat (STR) loci using SGM/SGM Plus</p> <p>Comparison of amplified STR sequences of human DNA</p>	<p>Documented In-House Methods meeting the requirements for Supply of Profiles to the Custodian of the National DNA Database for Criminal Justice Samples using:</p> <p>Documented In-House Methods TP 4101, TP 4102, TP 4115, TP 4126, TP 4127, TP 4129, TP 4132, TP 4141, TP 4140, TP 4139 and ABI Manual using Qiagen extraction, quantification, amplification, electrophoresis and analysis using fluorescent labelled primers, ABI sequencers</p> <p>Documented In-House Methods TP 4112 and TP 4121</p>
<p>HUMAN BODY FLUIDS and TISSUES  Blood Saliva Semen Cellular Material Hair</p>	<p><u>Forensic Analysis</u></p> <p>DNA Profiling: Analysis of Short Tandem Repeat (STR) loci using SGM Plus</p>	<p>Documented In-House Methods meeting the requirements of the Custodian for the purpose of supply to the National DNA Database for Crime Scene Samples using Qiagen extraction, quantification, amplification, electrophoresis and analysis</p>
<p>MARKS and IMPRESSIONS  Footwear marks</p>	<p><u>Forensic Analysis</u></p> <p>Identification of marks Chemical and Physical enhancement and lifting of marks comparison of crime scene footwear marks and suspect footwear</p>	<p>Documented In-House Methods using enhancement, photography, low power microscopy, and visual comparison</p>
<p>MOBILE PHONE HANDSETS, SIM CARDS and MOBILE PHONE MEMORY CARDS</p>	<p><u>Forensic Analysis</u></p> <p>Capture and preservation of electronic data</p>	<p>In house procedure using manual and electronic retrieval</p>



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SURFACES, PEOPLE, VEHICLES, CLOTHING, FURNISHINGS and SAMPLES from SURFACES	<u>Forensic Analysis</u> Morphology and chemical composition of particles distinguishing them as cartridge discharge residue	Documented In-House Methods TP 3001-3008 using SEM/EDX
VEHICLE and VEHICLE COMPONENTS  Wheel assemblies removed from vehicles	<u>Forensic Analysis</u>  Examination of wheel assemblies and constituent parts of wheel assemblies (rims, tyres, inner tubes) Identification of damage and defects Measurement of tread depth Measurement of valve back pressure	Documented In-House Method TP 3101 using visual examination, dimensional measurement, tread depth gauges, pressure gauges
Light bulbs from motor vehicles and pedal bicycles	Examination and investigation of cause of failure or defect	Documented In-House Methods using visual examination, optical microscopy, electrical continuity illumination test
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